

## SAR TEST REPORT



The following samples were submitted and identified on behalf of the client as:

**Equipment Under Test** SATURN1000-E  
**Model Name** SATURN1000-E  
**Brand Name** CASTLES TECHNOLOGY  
**Company Name** Castles Technology Co., Ltd  
**Company Address** 6F, No. 207-5, Sec.3, Beixin Rd., Xindian District, New Taipei City 231, Taiwan  
**Standards** IEEE/ANSI C95.1-1992, IEEE 1528-2013  
**FCC ID** WIYQSC20A  
**Date of Receipt** Apr. 09, 2020  
**Date of Test(s)** Aug. 09, 2020 ~ Aug. 27, 2020  
**Date of Issue** Sep. 04, 2020

In the configuration tested, the EUT complied with the standards specified above.

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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**Signed on behalf of SGS**

| Clerk / Ruby Ou | Engineer / Bond Tsai | Asst. Manager / John Yeh |
|-----------------|----------------------|--------------------------|
|                 |                      |                          |

**Date: Sep. 04, 2020**

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## Revision History

| Report Number | Revision | Description                  | Issue Date    |
|---------------|----------|------------------------------|---------------|
| E5/2020/40007 | Rev.00   | Initial creation of document | Sep. 04, 2020 |
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## 0. Guidance applied

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB447498D01v06

KDB248227D01v02r02

KDB941225D07v01r02

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# 1. General Information

## 1.1 Testing Laboratory

|                                                                                  |                                                             |
|----------------------------------------------------------------------------------|-------------------------------------------------------------|
| SGS Taiwan Ltd. Central RF Lab                                                   |                                                             |
| No. 2, Keji 1 <sup>st</sup> Rd., Guishan Township, Taoyuan County, 33383, Taiwan |                                                             |
| Tel                                                                              | +886-2-2299-3279                                            |
| Fax                                                                              | +886-2-2298-0488                                            |
| Internet                                                                         | <a href="http://www.tw.sgs.com/">http://www.tw.sgs.com/</a> |

## 1.2 Details of Applicant

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| Company Name    | Castles Technology Co., Ltd                                                     |
| Company Address | 6F, No. 207-5, Sec.3, Beixin Rd., Xindian District, New Taipei City 231, Taiwan |

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### 1.3 Description of EUT

|                             |                                                                                                                                                                                                                                                                                                                                                                                |                                                                     |        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------|
| EUT Name                    | SATURN1000-E                                                                                                                                                                                                                                                                                                                                                                   |                                                                     |        |
| Model Name                  | SATURN1000-E                                                                                                                                                                                                                                                                                                                                                                   |                                                                     |        |
| Brand Name                  | CASTLES TECHNOLOGY                                                                                                                                                                                                                                                                                                                                                             |                                                                     |        |
| FCC ID                      | WIYQSC20A                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |        |
| Mode of Operation           | <input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> WCDMA<br><input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> LTE FDD<br><input checked="" type="checkbox"/> WLAN802.11 a/b/g/n(20M/40M) <input checked="" type="checkbox"/> Bluetooth |                                                                     |        |
| Duty Cycle                  | GSM<br>(DTM multi class B)                                                                                                                                                                                                                                                                                                                                                     | 1/8.3                                                               |        |
|                             | GPRS<br>(support multi class 12 max)                                                                                                                                                                                                                                                                                                                                           | 1/2 (1Dn4UP)<br>1/2.76 (1Dn3UP)<br>1/4.1 (1Dn2UP)<br>1/8.3 (1Dn1UP) |        |
|                             | LTE FDD                                                                                                                                                                                                                                                                                                                                                                        | 1                                                                   |        |
|                             | WCDMA                                                                                                                                                                                                                                                                                                                                                                          | 1                                                                   |        |
|                             | WLAN802.11 a/b/g/n(20M/40M)                                                                                                                                                                                                                                                                                                                                                    | Refer to page 92-94                                                 |        |
|                             | Bluetooth                                                                                                                                                                                                                                                                                                                                                                      | 76.8 %                                                              |        |
| TX Frequency Range<br>(MHz) | GSM850                                                                                                                                                                                                                                                                                                                                                                         | 824                                                                 | — 849  |
|                             | GSM1900                                                                                                                                                                                                                                                                                                                                                                        | 1850                                                                | — 1910 |
|                             | WCDMA Band II                                                                                                                                                                                                                                                                                                                                                                  | 1850                                                                | — 1910 |
|                             | WCDMA Band IV                                                                                                                                                                                                                                                                                                                                                                  | 1710                                                                | — 1755 |
|                             | WCDMA Band V                                                                                                                                                                                                                                                                                                                                                                   | 824                                                                 | — 849  |
|                             | LTE FDD Band 2                                                                                                                                                                                                                                                                                                                                                                 | 1850                                                                | — 1910 |
|                             | LTE FDD Band 4                                                                                                                                                                                                                                                                                                                                                                 | 1710                                                                | — 1755 |
|                             | LTE FDD Band 5                                                                                                                                                                                                                                                                                                                                                                 | 824                                                                 | — 849  |
|                             | LTE FDD Band 7                                                                                                                                                                                                                                                                                                                                                                 | 2500                                                                | — 2570 |
|                             | LTE FDD Band 12                                                                                                                                                                                                                                                                                                                                                                | 699                                                                 | — 716  |
|                             | LTE FDD Band 13                                                                                                                                                                                                                                                                                                                                                                | 777                                                                 | — 787  |
|                             | LTE FDD Band 25                                                                                                                                                                                                                                                                                                                                                                | 1850                                                                | — 1915 |
|                             | LTE FDD Band 26                                                                                                                                                                                                                                                                                                                                                                | 814                                                                 | — 849  |

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|                          |                          |       |   |       |
|--------------------------|--------------------------|-------|---|-------|
| TX Frequency Range (MHz) | WLAN802.11 b/g/n(20M)    | 2412  | — | 2462  |
|                          | WLAN802.11 n(40M)        | 2422  | — | 2452  |
|                          | WLAN802.11 a/n(20M) 5.2G | 5180  | — | 5240  |
|                          | WLAN802.11 n(40M) 5.2G   | 5190  | — | 5230  |
|                          | WLAN802.11 a/n(20M) 5.3G | 5260  | — | 5320  |
|                          | WLAN802.11 n(40M) 5.3G   | 5270  | — | 5310  |
|                          | WLAN802.11 a/n(20M) 5.6G | 5500  | — | 5720  |
|                          | WLAN802.11 n(40M) 5.6G   | 5510  | — | 5710  |
|                          | WLAN802.11 a/n(20M) 5.8G | 5745  | — | 5825  |
|                          | WLAN802.11 n(40M) 5.8G   | 5755  | — | 5795  |
|                          | Bluetooth                | 2402  | — | 2480  |
| Channel Number (ARFCN)   | GSM850                   | 128   | — | 251   |
|                          | GSM1900                  | 512   | — | 810   |
|                          | WCDMA Band II            | 9262  | — | 9538  |
|                          | WCDMA Band IV            | 1312  | — | 1513  |
|                          | WCDMA Band V             | 4132  | — | 4233  |
|                          | LTE FDD Band 2           | 18607 | — | 19193 |
|                          | LTE FDD Band 4           | 19957 | — | 20393 |
|                          | LTE FDD Band 5           | 20407 | — | 20643 |
|                          | LTE FDD Band 7           | 20775 | — | 21425 |
|                          | LTE FDD Band 12          | 23017 | — | 23173 |
|                          | LTE FDD Band 13          | 23205 | — | 23255 |
|                          | LTE FDD Band 25          | 26047 | — | 26683 |
|                          | LTE FDD Band 26          | 26697 | — | 27033 |
|                          | WLAN802.11 b/g/n(20M)    | 1     | — | 11    |
|                          | WLAN802.11 n(40M)        | 3     | — | 9     |
|                          | WLAN802.11 a/n(20M) 5.2G | 36    | — | 48    |
|                          | WLAN802.11 n(40M) 5.2G   | 38    | — | 46    |

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|                           |                          |     |   |     |
|---------------------------|--------------------------|-----|---|-----|
| Channel Number<br>(ARFCN) | WLAN802.11 a/n(20M) 5.3G | 52  | — | 64  |
|                           | WLAN802.11 n(40M) 5.3G   | 54  | — | 62  |
|                           | WLAN802.11 a/n(20M) 5.6G | 100 | — | 144 |
|                           | WLAN802.11 n(40M) 5.6G   | 102 | — | 142 |
|                           | WLAN802.11 a/n(20M) 5.8G | 149 | — | 165 |
|                           | WLAN802.11 n(40M) 5.8G   | 151 | — | 159 |
|                           | Bluetooth                | 0   | — | 78  |

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| Max. SAR (1 g) (Unit: W/Kg) |          |          |         |           |
|-----------------------------|----------|----------|---------|-----------|
| Band                        | Measured | Reported | Channel | Position  |
| GPRS 850                    | 0.66     | 0.87     | 128     | Back side |
| GPRS 1900                   | 0.75     | 0.99     | 512     | Back side |
| WCDMA Band II               | 0.53     | 0.60     | 9262    | Back side |
| WCDMA Band IV               | 0.54     | 0.81     | 1513    | Top side  |
| WCDMA Band V                | 0.51     | 0.77     | 4233    | Back side |
| LTE FDD Band 2              | 0.54     | 0.59     | 18700   | Back side |
| LTE FDD Band 4              | 0.43     | 0.66     | 20175   | Back side |
| LTE FDD Band 5              | 0.47     | 0.71     | 20450   | Back side |
| LTE FDD Band 7              | 0.59     | 0.75     | 21350   | Top side  |
| LTE FDD Band 12             | 0.68     | 0.73     | 23130   | Back side |
| LTE FDD Band 13             | 0.64     | 0.68     | 23230   | Back side |
| LTE FDD Band 25             | 0.58     | 0.61     | 26140   | Back side |
| LTE FDD Band 26             | 0.50     | 0.67     | 26865   | Back side |

| Max. SAR (1 g) (Unit: W/Kg) |          |          |         |           |
|-----------------------------|----------|----------|---------|-----------|
| Band                        | Measured | Reported | Channel | Position  |
| WLAN 802.11b                | 0.50     | 0.51     | 11      | Back side |
| Bluetooth (GFSK)            | 0.03     | 0.05     | 78      | Back side |
| WLAN 802.11n(20M) 5.2G      | 0.48     | 0.56     | 48      | Back side |
| WLAN 802.11n(20M) 5.3G      | 0.31     | 0.37     | 52      | Back side |
| WLAN 802.11n(20M) 5.6G      | 0.23     | 0.27     | 140     | Back side |
| WLAN 802.11a 5.8G           | 0.25     | 0.28     | 149     | Back side |

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### GSM 850 - conducted power table:

| EUT mode                                                   | Frequency (MHz) | CH  | Max. Rated Avg. Power + Max. Tolerance (dBm) | Burst average power | Source-based time average power |
|------------------------------------------------------------|-----------------|-----|----------------------------------------------|---------------------|---------------------------------|
|                                                            |                 |     |                                              | Avg. (dBm)          | Avg. (dBm)                      |
| GSM 850 (GMSK)                                             | 824.2           | 128 | 30                                           | 29.95               | 20.92                           |
|                                                            | 836.6           | 190 | 30                                           | 29.92               | 20.89                           |
|                                                            | 848.8           | 251 | 30                                           | 29.90               | 20.87                           |
| The division factor compared to the number of TX time slot |                 |     |                                              |                     |                                 |
| Division factor                                            |                 |     |                                              | 1 TX time slot      |                                 |
|                                                            |                 |     |                                              | -9.03               |                                 |

### GPRS 850 - conducted power table:

| Burst average power                                        |                 |     |                |                |                |                |
|------------------------------------------------------------|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm)               |                 |     | 30             | 30             | 30             | 29             |
|                                                            |                 |     | 1Dn1UP         | 1Dn2UP         | 1Dn3UP         | 1Dn4UP         |
| EUT mode                                                   | Frequency (MHz) | CH  | Avg. (dBm)     | Avg. (dBm)     | Avg. (dBm)     | Avg. (dBm)     |
| GPRS 850                                                   | 824.2           | 128 | 29.98          | 29.88          | 29.73          | 28.84          |
|                                                            | 836.6           | 190 | 29.94          | 29.82          | 29.65          | 28.81          |
|                                                            | 848.8           | 251 | 29.93          | 29.78          | 29.59          | 28.70          |
| Source-based time average power                            |                 |     |                |                |                |                |
| GPRS 850                                                   | 824.2           | 128 | 20.95          | 23.86          | 25.47          | 25.83          |
|                                                            | 836.6           | 190 | 20.91          | 23.80          | 25.39          | 25.80          |
|                                                            | 848.8           | 251 | 20.90          | 23.76          | 25.33          | 25.69          |
| The division factor compared to the number of TX time slot |                 |     |                |                |                |                |
| Division factor                                            |                 |     | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
|                                                            |                 |     | -9.03          | -6.02          | -4.26          | -3.01          |

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**GSM 1900 - conducted power table:**

| EUT mode                                                   | Frequency (MHz) | CH  | Max. Rated Avg. Power + Max.Tolerance (dBm) | Burst average power | Source-based time average power |
|------------------------------------------------------------|-----------------|-----|---------------------------------------------|---------------------|---------------------------------|
|                                                            |                 |     |                                             | Avg. (dBm)          | Avg. (dBm)                      |
| GSM1900 (GMSK)                                             | 1850.2          | 512 | 25.5                                        | 25.26               | 16.23                           |
|                                                            | 1800            | 661 | 25.5                                        | 25.47               | 16.44                           |
|                                                            | 1909.8          | 810 | 25.5                                        | 25.40               | 16.37                           |
| The division factor compared to the number of TX time slot |                 |     |                                             |                     |                                 |
| Division factor                                            |                 |     |                                             | 1 TX time slot      |                                 |
|                                                            |                 |     |                                             | -9.03               |                                 |

**GPRS 1900 - conducted power table:**

| Burst average power                                        |                 |     |                |                |                |                |
|------------------------------------------------------------|-----------------|-----|----------------|----------------|----------------|----------------|
| Max. Rated Avg. Power + Max. Tolerance (dBm)               |                 |     | 25.5           | 25.5           | 25.5           | 25.5           |
|                                                            |                 |     | 1Dn1UP         | 1Dn2UP         | 1Dn3UP         | 1Dn4UP         |
| EUT mode                                                   | Frequency (MHz) | CH  | Avg. (dBm)     | Avg. (dBm)     | Avg. (dBm)     | Avg. (dBm)     |
| GPRS 1900                                                  | 1850.2          | 512 | 25.28          | 25.17          | 24.99          | 24.29          |
|                                                            | 1880            | 661 | 25.48          | 25.38          | 25.17          | 24.30          |
|                                                            | 1909.8          | 810 | 25.43          | 25.31          | 25.10          | 24.21          |
| Source-based time average power                            |                 |     |                |                |                |                |
| GPRS 1900                                                  | 1850.2          | 512 | 16.25          | 19.15          | 20.73          | 21.28          |
|                                                            | 1880            | 661 | 16.45          | 19.36          | 20.91          | 21.29          |
|                                                            | 1909.8          | 810 | 16.40          | 19.29          | 20.84          | 21.20          |
| The division factor compared to the number of TX time slot |                 |     |                |                |                |                |
| Division factor                                            |                 |     | 1 TX time slot | 2 TX time slot | 3 TX time slot | 4 TX time slot |
|                                                            |                 |     | -9.03          | -6.02          | -4.26          | -3.01          |

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### WCDMA Band II / Band IV / Band V - HSDPA / HSUPA Conducted power table (Unit: dBm):

| Band                                       |                 | WCDMA II |       |        |
|--------------------------------------------|-----------------|----------|-------|--------|
| TX Channel                                 |                 | 9262     | 9400  | 9538   |
| Frequency (MHz)                            |                 | 1852.4   | 1880  | 1907.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) |                 | 20.50    |       |        |
| 3GPP Rel 99                                | RMC 12.2Kbps    | 19.95    | 19.93 | 19.89  |
| 3GPP Rel 5                                 | HSDPA Subtest-1 | 19.66    | 19.54 | 19.61  |
|                                            | HSDPA Subtest-2 | 19.33    | 19.03 | 19.12  |
|                                            | HSDPA Subtest-3 | 19.21    | 19.02 | 19.11  |
|                                            | HSDPA Subtest-4 | 19.18    | 19.00 | 19.10  |
| 3GPP Rel 6                                 | HSUPA Subtest-1 | 19.54    | 19.18 | 18.97  |
|                                            | HSUPA Subtest-2 | 17.81    | 17.56 | 17.62  |
|                                            | HSUPA Subtest-3 | 18.69    | 18.54 | 18.52  |
|                                            | HSUPA Subtest-4 | 18.29    | 18.05 | 18.11  |
|                                            | HSUPA Subtest-5 | 19.78    | 19.66 | 19.74  |

| Band                                       |                 | WCDMA IV |        |        |
|--------------------------------------------|-----------------|----------|--------|--------|
| TX Channel                                 |                 | 1312     | 1412   | 1513   |
| Frequency (MHz)                            |                 | 1712.4   | 1732.4 | 1752.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) |                 | 24.00    |        |        |
| 3GPP Rel 99                                | RMC 12.2Kbps    | 21.77    | 21.99  | 22.20  |
| 3GPP Rel 5                                 | HSDPA Subtest-1 | 21.75    | 21.81  | 22.07  |
|                                            | HSDPA Subtest-2 | 21.28    | 21.34  | 21.58  |
|                                            | HSDPA Subtest-3 | 21.30    | 21.36  | 21.59  |
|                                            | HSDPA Subtest-4 | 21.30    | 21.45  | 21.58  |
| 3GPP Rel 6                                 | HSUPA Subtest-1 | 21.52    | 21.54  | 21.69  |
|                                            | HSUPA Subtest-2 | 19.83    | 19.86  | 19.90  |
|                                            | HSUPA Subtest-3 | 20.72    | 20.84  | 21.12  |
|                                            | HSUPA Subtest-4 | 20.34    | 20.36  | 20.64  |
|                                            | HSUPA Subtest-5 | 21.83    | 21.77  | 21.85  |

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| Band                                       |                 | WCDMA V |       |       |
|--------------------------------------------|-----------------|---------|-------|-------|
| TX Channel                                 |                 | 4132    | 4183  | 4233  |
| Frequency (MHz)                            |                 | 826.4   | 836.6 | 846.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) |                 | 24.00   |       |       |
| 3GPP Rel 99                                | RMC 12.2Kbps    | 22.16   | 22.23 | 22.19 |
| 3GPP Rel 5                                 | HSDPA Subtest-1 | 22.15   | 22.02 | 22.04 |
|                                            | HSDPA Subtest-2 | 21.72   | 21.57 | 21.59 |
|                                            | HSDPA Subtest-3 | 21.74   | 21.58 | 21.53 |
|                                            | HSDPA Subtest-4 | 21.73   | 21.57 | 21.59 |
| 3GPP Rel 6                                 | HSUPA Subtest-1 | 21.71   | 21.88 | 21.71 |
|                                            | HSUPA Subtest-2 | 20.16   | 20.06 | 20.07 |
|                                            | HSUPA Subtest-3 | 21.12   | 20.93 | 21.03 |
|                                            | HSUPA Subtest-4 | 20.63   | 20.53 | 20.55 |
|                                            | HSUPA Subtest-5 | 22.11   | 22.08 | 21.96 |

#### Subtests for WCDMA Release 5 HSDPA

| SUB-TEST | $\beta_c$ | $\beta_d$ | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{HS}$<br>(Note 1, Note 2) | CM (dB)<br>(Note 3) | MPR (dB)<br>(Note 3) |
|----------|-----------|-----------|-------------------|-------------------|----------------------------------|---------------------|----------------------|
| 1        | 2/15      | 15/15     | 64                | 2/15              | 4/15                             | 0.0                 | 0.0                  |
| 2        | 12/15     | 15/15     | 64                | 12/15             | 24/15                            | 1.0                 | 0.0                  |
| 3        | 15/15     | 8/15      | 64                | 15/8              | 30/15                            | 1.5                 | 0.5                  |
| 4        | 15/15     | 4/15      | 64                | 15/4              | 30/15                            | 1.5                 | 0.5                  |

#### Subtests for WCDMA Release 6 HSUPA

| SUB-TEST | $\beta_c$ | $\beta_d$ | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{HS}$<br>(Note 1) | $\beta_{ec}$ | $\beta_{ed}$<br>(Note 5)<br>(Note 6)           | $\beta_{ed}$<br>(SF) | $\beta_{ed}$<br>(Codes) | CM<br>(dB)<br>(Note 2) | MPR<br>(dB)<br>(Note 2) | AG<br>Index<br>(Note 6) | E-TFCI |
|----------|-----------|-----------|-------------------|-------------------|--------------------------|--------------|------------------------------------------------|----------------------|-------------------------|------------------------|-------------------------|-------------------------|--------|
| 1        | 11/15     | 15/15     | 64                | 11/15             | 22/15                    | 209/225      | 1309/225                                       | 4                    | 1                       | 1.0                    | 0.0                     | 20                      | 75     |
| 2        | 6/15      | 15/15     | 64                | 6/15              | 12/15                    | 12/15        | 94/75                                          | 4                    | 1                       | 3.0                    | 2.0                     | 12                      | 67     |
| 3        | 15/15     | 9/15      | 64                | 15/9              | 30/15                    | 30/15        | $\beta_{ed1}$ : 47/15<br>$\beta_{ed2}$ : 47/15 | 4<br>4               | 2                       | 2.0                    | 1.0                     | 15                      | 92     |
| 4        | 2/15      | 15/15     | 64                | 2/15              | 4/15                     | 2/15         | 56/75                                          | 4                    | 1                       | 3.0                    | 2.0                     | 17                      | 71     |
| 5        | 15/15     | 15/15     | 64                | 15/15             | 30/15                    | 24/15        | 134/15                                         | 4                    | 1                       | 1.0                    | 0.0                     | 21                      | 81     |

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### LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 25 / Band 26 power table:

| FDD Band 2 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(MHz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20         | QPSK       | 1 RB    | 0         | 1860            | 18700   | 20.06                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 20.35                 | 20.5                                | 0                        |
|            |            |         |           | 1900            | 19100   | 20.19                 | 20.5                                | 0                        |
|            |            |         | 50        | 1860            | 18700   | 20.08                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 19.92                 | 20.5                                | 0                        |
|            |            |         |           | 1900            | 19100   | 19.95                 | 20.5                                | 0                        |
|            |            |         | 99        | 1860            | 18700   | 19.85                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 20.09                 | 20.5                                | 0                        |
|            |            |         |           | 1900            | 19100   | 19.94                 | 20.5                                | 0                        |
|            |            | 50 RB   | 0         | 1860            | 18700   | 19.09                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.87                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 18.99                 | 19.5                                | 0-1                      |
|            |            |         | 25        | 1860            | 18700   | 18.97                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.93                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 18.89                 | 19.5                                | 0-1                      |
|            |            |         | 50        | 1860            | 18700   | 19.00                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.88                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 18.86                 | 19.5                                | 0-1                      |
|            |            | 100RB   |           | 1860            | 18700   | 19.03                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.82                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 19.04                 | 19.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1860            | 18700   | 19.34                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.27                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 19.43                 | 19.5                                | 0-1                      |
|            |            |         | 50        | 1860            | 18700   | 19.49                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.73                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 19.30                 | 19.5                                | 0-1                      |
|            |            |         | 99        | 1860            | 18700   | 19.33                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.16                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 19.47                 | 19.5                                | 0-1                      |
|            |            | 50 RB   | 0         | 1860            | 18700   | 18.12                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.85                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 17.99                 | 18.5                                | 0-2                      |
|            |            |         | 25        | 1860            | 18700   | 18.06                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.85                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 17.94                 | 18.5                                | 0-2                      |
|            |            |         | 50        | 1860            | 18700   | 17.98                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.70                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 17.88                 | 18.5                                | 0-2                      |
|            |            | 100RB   |           | 1860            | 18700   | 18.14                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.88                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 18.06                 | 18.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20         | 64-QAM     | 1 RB    | 0         | 1860            | 18700   | 19.31                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.25                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 19.40                 | 19.5                                | 0-1                      |
|            |            |         | 50        | 1860            | 18700   | 19.45                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.69                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 19.23                 | 19.5                                | 0-1                      |
|            |            |         | 99        | 1860            | 18700   | 19.31                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.11                 | 19.5                                | 0-1                      |
|            |            |         |           | 1900            | 19100   | 19.41                 | 19.5                                | 0-1                      |
|            |            | 50 RB   | 0         | 1860            | 18700   | 18.03                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.84                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 17.98                 | 18.5                                | 0-2                      |
|            |            |         | 25        | 1860            | 18700   | 18.00                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.82                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 17.90                 | 18.5                                | 0-2                      |
|            |            |         | 50        | 1860            | 18700   | 17.97                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.65                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 17.83                 | 18.5                                | 0-2                      |
|            |            | 100RB   |           | 1860            | 18700   | 18.09                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.86                 | 18.5                                | 0-2                      |
|            |            |         |           | 1900            | 19100   | 18.00                 | 18.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 15         | QPSK       | 1 RB    | 0         | 1857.5          | 18675   | 20.27                 | 20.5                                | 0                        |     |
|            |            |         |           | 1880            | 18900   | 20.25                 | 20.5                                | 0                        |     |
|            |            |         |           | 1902.5          | 19125   | 20.17                 | 20.5                                | 0                        |     |
|            |            |         | 36        | 1857.5          | 18675   | 20.06                 | 20.5                                | 0                        |     |
|            |            |         |           | 1880            | 18900   | 20.03                 | 20.5                                | 0                        |     |
|            |            |         |           | 1902.5          | 19125   | 19.84                 | 20.5                                | 0                        |     |
|            |            |         | 74        | 1857.5          | 18675   | 20.06                 | 20.5                                | 0                        |     |
|            |            |         |           | 1880            | 18900   | 20.02                 | 20.5                                | 0                        |     |
|            |            |         |           | 1902.5          | 19125   | 19.97                 | 20.5                                | 0                        |     |
|            |            | 36 RB   | 0         | 1857.5          | 18675   | 19.21                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.18                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1902.5          | 19125   | 19.16                 | 19.5                                | 0-1                      |     |
|            |            |         | 18        | 1857.5          | 18675   | 19.08                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.12                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1902.5          | 19125   | 19.03                 | 19.5                                | 0-1                      |     |
|            |            |         | 37        | 1857.5          | 18675   | 19.12                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.02                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1902.5          | 19125   | 19.14                 | 19.5                                | 0-1                      |     |
|            |            | 75RB    |           |                 | 1857.5  | 18675                 | 19.11                               | 19.5                     | 0-1 |
|            |            |         |           |                 | 1880    | 18900                 | 19.04                               | 19.5                     | 0-1 |
|            |            |         |           |                 | 1902.5  | 19125                 | 19.06                               | 19.5                     | 0-1 |
|            | 16-QAM     | 1 RB    | 0         | 1857.5          | 18675   | 19.46                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.06                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1902.5          | 19125   | 19.38                 | 19.5                                | 0-1                      |     |
|            |            |         | 36        | 1857.5          | 18675   | 19.31                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 18.89                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1902.5          | 19125   | 18.56                 | 19.5                                | 0-1                      |     |
|            |            |         | 74        | 1857.5          | 18675   | 19.50                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.21                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1902.5          | 19125   | 18.52                 | 19.5                                | 0-1                      |     |
|            |            | 36 RB   | 0         | 1857.5          | 18675   | 18.24                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1880            | 18900   | 18.21                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1902.5          | 19125   | 18.12                 | 18.5                                | 0-2                      |     |
|            |            |         | 18        | 1857.5          | 18675   | 18.18                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1880            | 18900   | 18.16                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1902.5          | 19125   | 18.21                 | 18.5                                | 0-2                      |     |
|            |            |         | 37        | 1857.5          | 18675   | 18.23                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1880            | 18900   | 18.09                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1902.5          | 19125   | 17.92                 | 18.5                                | 0-2                      |     |
|            |            | 75RB    |           |                 | 1857.5  | 18675                 | 18.24                               | 18.5                     | 0-2 |
|            |            |         |           |                 | 1880    | 18900                 | 17.97                               | 18.5                     | 0-2 |
|            |            |         |           |                 | 1902.5  | 19125                 | 18.12                               | 18.5                     | 0-2 |

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| FDD Band 2 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15         | 64-QAM     | 1 RB    | 0         | 1857.5          | 18675   | 19.25                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.19                 | 19.5                                | 0-1                      |
|            |            |         |           | 1902.5          | 19125   | 19.41                 | 19.5                                | 0-1                      |
|            |            |         | 36        | 1857.5          | 18675   | 19.48                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.70                 | 19.5                                | 0-1                      |
|            |            |         |           | 1902.5          | 19125   | 19.26                 | 19.5                                | 0-1                      |
|            |            |         | 74        | 1857.5          | 18675   | 19.29                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.06                 | 19.5                                | 0-1                      |
|            |            |         |           | 1902.5          | 19125   | 19.38                 | 19.5                                | 0-1                      |
|            |            | 36 RB   | 0         | 1857.5          | 18675   | 18.07                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.75                 | 18.5                                | 0-2                      |
|            |            |         |           | 1902.5          | 19125   | 17.96                 | 18.5                                | 0-2                      |
|            |            |         | 18        | 1857.5          | 18675   | 18.01                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.83                 | 18.5                                | 0-2                      |
|            |            |         |           | 1902.5          | 19125   | 17.91                 | 18.5                                | 0-2                      |
|            |            |         | 37        | 1857.5          | 18675   | 17.91                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.60                 | 18.5                                | 0-2                      |
|            |            |         |           | 1902.5          | 19125   | 17.83                 | 18.5                                | 0-2                      |
|            |            | 75RB    |           | 1857.5          | 18675   | 18.10                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.80                 | 18.5                                | 0-2                      |
|            |            |         |           | 1902.5          | 19125   | 18.04                 | 18.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10         | QPSK       | 1 RB    | 0         | 1855            | 18650   | 20.00                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 20.20                 | 20.5                                | 0                        |
|            |            |         |           | 1905            | 19150   | 20.23                 | 20.5                                | 0                        |
|            |            |         | 25        | 1855            | 18650   | 20.13                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 20.13                 | 20.5                                | 0                        |
|            |            |         |           | 1905            | 19150   | 20.26                 | 20.5                                | 0                        |
|            |            |         | 49        | 1855            | 18650   | 20.32                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 20.02                 | 20.5                                | 0                        |
|            |            |         |           | 1905            | 19150   | 20.02                 | 20.5                                | 0                        |
|            |            | 25 RB   | 0         | 1855            | 18650   | 19.18                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.09                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.10                 | 19.5                                | 0-1                      |
|            |            |         | 12        | 1855            | 18650   | 19.18                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.17                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.07                 | 19.5                                | 0-1                      |
|            |            |         | 25        | 1855            | 18650   | 19.06                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.01                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.05                 | 19.5                                | 0-1                      |
|            |            | 50RB    | 1855      | 18650           | 19.24   | 19.5                  | 0-1                                 |                          |
|            |            |         | 1880      | 18900           | 19.14   | 19.5                  | 0-1                                 |                          |
|            |            |         | 1905      | 19150           | 19.03   | 19.5                  | 0-1                                 |                          |
|            | 16-QAM     | 1 RB    | 0         | 1855            | 18650   | 19.04                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.79                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.43                 | 19.5                                | 0-1                      |
|            |            |         | 25        | 1855            | 18650   | 19.33                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.34                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.48                 | 19.5                                | 0-1                      |
|            |            |         | 49        | 1855            | 18650   | 19.44                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.22                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.31                 | 19.5                                | 0-1                      |
|            |            | 25 RB   | 0         | 1855            | 18650   | 18.27                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.11                 | 18.5                                | 0-2                      |
|            |            |         |           | 1905            | 19150   | 18.02                 | 18.5                                | 0-2                      |
|            |            |         | 12        | 1855            | 18650   | 18.26                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.18                 | 18.5                                | 0-2                      |
|            |            |         |           | 1905            | 19150   | 17.98                 | 18.5                                | 0-2                      |
|            |            |         | 25        | 1855            | 18650   | 18.35                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.98                 | 18.5                                | 0-2                      |
|            |            |         |           | 1905            | 19150   | 18.04                 | 18.5                                | 0-2                      |
|            |            | 50RB    | 1855      | 18650           | 18.42   | 18.5                  | 0-2                                 |                          |
|            |            |         | 1880      | 18900           | 18.19   | 18.5                  | 0-2                                 |                          |
|            |            |         | 1905      | 19150           | 18.08   | 18.5                  | 0-2                                 |                          |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10         | 64-QAM     | 1 RB    | 0         | 1855            | 18650   | 19.33                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.26                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.37                 | 19.5                                | 0-1                      |
|            |            |         | 25        | 1855            | 18650   | 19.48                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.69                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.27                 | 19.5                                | 0-1                      |
|            |            |         | 49        | 1855            | 18650   | 19.26                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.11                 | 19.5                                | 0-1                      |
|            |            |         |           | 1905            | 19150   | 19.38                 | 19.5                                | 0-1                      |
|            |            | 25 RB   | 0         | 1855            | 18650   | 18.11                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.76                 | 18.5                                | 0-2                      |
|            |            |         |           | 1905            | 19150   | 17.90                 | 18.5                                | 0-2                      |
|            |            |         | 12        | 1855            | 18650   | 17.97                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.85                 | 18.5                                | 0-2                      |
|            |            |         |           | 1905            | 19150   | 17.92                 | 18.5                                | 0-2                      |
|            |            |         | 25        | 1855            | 18650   | 17.88                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.61                 | 18.5                                | 0-2                      |
|            |            |         |           | 1905            | 19150   | 17.82                 | 18.5                                | 0-2                      |
|            |            | 50RB    |           | 1855            | 18650   | 18.14                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.87                 | 18.5                                | 0-2                      |
|            |            |         |           | 1905            | 19150   | 18.05                 | 18.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5          | QPSK       | 1 RB    | 0         | 1852.5          | 18625   | 20.03                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 19.96                 | 20.5                                | 0                        |
|            |            |         |           | 1907.5          | 19175   | 20.03                 | 20.5                                | 0                        |
|            |            |         | 12        | 1852.5          | 18625   | 20.08                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 19.97                 | 20.5                                | 0                        |
|            |            |         |           | 1907.5          | 19175   | 20.12                 | 20.5                                | 0                        |
|            |            |         | 24        | 1852.5          | 18625   | 20.29                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 19.97                 | 20.5                                | 0                        |
|            |            |         |           | 1907.5          | 19175   | 20.02                 | 20.5                                | 0                        |
|            |            | 12 RB   | 0         | 1852.5          | 18625   | 19.05                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.07                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.03                 | 19.5                                | 0-1                      |
|            |            |         | 6         | 1852.5          | 18625   | 19.03                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.15                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.06                 | 19.5                                | 0-1                      |
|            |            |         | 13        | 1852.5          | 18625   | 19.25                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.14                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.09                 | 19.5                                | 0-1                      |
|            |            | 25RB    |           | 1852.5          | 18625   | 19.16                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.15                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.02                 | 19.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1852.5          | 18625   | 19.32                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.44                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.46                 | 19.5                                | 0-1                      |
|            |            |         | 12        | 1852.5          | 18625   | 19.12                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.44                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.41                 | 19.5                                | 0-1                      |
|            |            |         | 24        | 1852.5          | 18625   | 19.30                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.48                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.45                 | 19.5                                | 0-1                      |
|            |            | 12 RB   | 0         | 1852.5          | 18625   | 18.04                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.05                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 17.90                 | 18.5                                | 0-2                      |
|            |            |         | 6         | 1852.5          | 18625   | 18.02                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.97                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 17.98                 | 18.5                                | 0-2                      |
|            |            |         | 13        | 1852.5          | 18625   | 18.23                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.00                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 18.17                 | 18.5                                | 0-2                      |
|            |            | 25RB    |           | 1852.5          | 18625   | 18.22                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.17                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 18.02                 | 18.5                                | 0-2                      |

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| FDD Band 2 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5          | 64-QAM     | 1 RB    | 0         | 1852.5          | 18625   | 19.29                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.26                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.35                 | 19.5                                | 0-1                      |
|            |            |         | 12        | 1852.5          | 18625   | 19.46                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 18.72                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.30                 | 19.5                                | 0-1                      |
|            |            |         | 24        | 1852.5          | 18625   | 19.24                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.09                 | 19.5                                | 0-1                      |
|            |            |         |           | 1907.5          | 19175   | 19.43                 | 19.5                                | 0-1                      |
|            |            | 12 RB   | 0         | 1852.5          | 18625   | 18.07                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.81                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 17.95                 | 18.5                                | 0-2                      |
|            |            |         | 6         | 1852.5          | 18625   | 18.00                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.76                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 17.85                 | 18.5                                | 0-2                      |
|            |            |         | 13        | 1852.5          | 18625   | 17.91                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.68                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 17.88                 | 18.5                                | 0-2                      |
|            |            | 25RB    |           | 1852.5          | 18625   | 18.07                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.87                 | 18.5                                | 0-2                      |
|            |            |         |           | 1907.5          | 19175   | 17.99                 | 18.5                                | 0-2                      |

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| FDD Band 2 |            |         |           |                 |         |                       |                                     |                          |     |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 3          | QPSK       | 1 RB    | 0         | 1851.5          | 18615   | 20.10                 | 20.5                                | 0                        |     |
|            |            |         |           | 1880            | 18900   | 20.14                 | 20.5                                | 0                        |     |
|            |            |         |           | 1908.5          | 19185   | 20.22                 | 20.5                                | 0                        |     |
|            |            |         | 7         | 1851.5          | 18615   | 20.31                 | 20.5                                | 0                        |     |
|            |            |         |           | 1880            | 18900   | 20.13                 | 20.5                                | 0                        |     |
|            |            |         |           | 1908.5          | 19185   | 20.32                 | 20.5                                | 0                        |     |
|            |            |         | 14        | 1851.5          | 18615   | 20.32                 | 20.5                                | 0                        |     |
|            |            |         |           | 1880            | 18900   | 19.94                 | 20.5                                | 0                        |     |
|            |            |         |           | 1908.5          | 19185   | 20.29                 | 20.5                                | 0                        |     |
|            |            | 8 RB    | 0         | 1851.5          | 18615   | 18.98                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.08                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1908.5          | 19185   | 19.10                 | 19.5                                | 0-1                      |     |
|            |            |         | 4         | 1851.5          | 18615   | 19.05                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.15                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1908.5          | 19185   | 19.14                 | 19.5                                | 0-1                      |     |
|            |            |         | 7         | 1851.5          | 18615   | 19.14                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.19                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1908.5          | 19185   | 19.16                 | 19.5                                | 0-1                      |     |
|            |            | 15RB    |           |                 | 1851.5  | 18615                 | 19.07                               | 19.5                     | 0-1 |
|            |            |         |           |                 | 1880    | 18900                 | 19.19                               | 19.5                     | 0-1 |
|            |            |         |           |                 | 1908.5  | 19185                 | 19.04                               | 19.5                     | 0-1 |
|            | 16-QAM     | 1 RB    | 0         | 1851.5          | 18615   | 19.45                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.47                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1908.5          | 19185   | 19.20                 | 19.5                                | 0-1                      |     |
|            |            |         | 7         | 1851.5          | 18615   | 18.90                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.41                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1908.5          | 19185   | 19.20                 | 19.5                                | 0-1                      |     |
|            |            |         | 14        | 1851.5          | 18615   | 19.26                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1880            | 18900   | 19.44                 | 19.5                                | 0-1                      |     |
|            |            |         |           | 1908.5          | 19185   | 19.49                 | 19.5                                | 0-1                      |     |
|            |            | 8 RB    | 0         | 1851.5          | 18615   | 17.98                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1880            | 18900   | 18.28                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1908.5          | 19185   | 18.19                 | 18.5                                | 0-2                      |     |
|            |            |         | 4         | 1851.5          | 18615   | 17.95                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1880            | 18900   | 18.17                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1908.5          | 19185   | 18.24                 | 18.5                                | 0-2                      |     |
|            |            |         | 7         | 1851.5          | 18615   | 18.19                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1880            | 18900   | 18.40                 | 18.5                                | 0-2                      |     |
|            |            |         |           | 1908.5          | 19185   | 18.41                 | 18.5                                | 0-2                      |     |
|            |            | 15RB    |           |                 | 1851.5  | 18615                 | 18.14                               | 18.5                     | 0-2 |
|            |            |         |           |                 | 1880    | 18900                 | 18.27                               | 18.5                     | 0-2 |
|            |            |         |           |                 | 1908.5  | 19185                 | 18.32                               | 18.5                     | 0-2 |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3          | 64-QAM     | 1 RB    | 0         | 1851.5          | 18615   | 19.41                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.47                 | 19.5                                | 0-1                      |
|            |            |         |           | 1908.5          | 19185   | 19.15                 | 19.5                                | 0-1                      |
|            |            |         | 7         | 1851.5          | 18615   | 18.85                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.38                 | 19.5                                | 0-1                      |
|            |            |         |           | 1908.5          | 19185   | 19.18                 | 19.5                                | 0-1                      |
|            |            |         | 14        | 1851.5          | 18615   | 19.21                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.34                 | 19.5                                | 0-1                      |
|            |            |         |           | 1908.5          | 19185   | 19.41                 | 19.5                                | 0-1                      |
|            |            | 8 RB    | 0         | 1851.5          | 18615   | 17.96                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.19                 | 18.5                                | 0-2                      |
|            |            |         |           | 1908.5          | 19185   | 18.14                 | 18.5                                | 0-2                      |
|            |            |         | 4         | 1851.5          | 18615   | 17.93                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.09                 | 18.5                                | 0-2                      |
|            |            |         |           | 1908.5          | 19185   | 18.15                 | 18.5                                | 0-2                      |
|            |            |         | 7         | 1851.5          | 18615   | 18.14                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.35                 | 18.5                                | 0-2                      |
|            |            |         |           | 1908.5          | 19185   | 18.34                 | 18.5                                | 0-2                      |
|            |            | 15RB    |           | 1851.5          | 18615   | 18.10                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.22                 | 18.5                                | 0-2                      |
|            |            |         |           | 1908.5          | 19185   | 18.30                 | 18.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4        | QPSK       | 1 RB    | 0         | 1850.7          | 18607   | 20.04                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 19.88                 | 20.5                                | 0                        |
|            |            |         |           | 1909.3          | 19193   | 19.97                 | 20.5                                | 0                        |
|            |            |         | 2         | 1850.7          | 18607   | 20.08                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 20.07                 | 20.5                                | 0                        |
|            |            |         |           | 1909.3          | 19193   | 20.22                 | 20.5                                | 0                        |
|            |            |         | 5         | 1850.7          | 18607   | 19.97                 | 20.5                                | 0                        |
|            |            |         |           | 1880            | 18900   | 20.01                 | 20.5                                | 0                        |
|            |            |         |           | 1909.3          | 19193   | 20.04                 | 20.5                                | 0                        |
|            |            | 3 RB    | 0         | 1850.7          | 18607   | 19.49                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.35                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.33                 | 19.5                                | 0-1                      |
|            |            |         | 2         | 1850.7          | 18607   | 19.42                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.45                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.28                 | 19.5                                | 0-1                      |
|            |            |         | 3         | 1850.7          | 18607   | 19.41                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.38                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.36                 | 19.5                                | 0-1                      |
|            |            | 6RB     |           | 1850.7          | 18607   | 19.16                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.17                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.15                 | 19.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1850.7          | 18607   | 19.31                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.47                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.49                 | 19.5                                | 0-1                      |
|            |            |         | 2         | 1850.7          | 18607   | 19.36                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.42                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.45                 | 19.5                                | 0-1                      |
|            |            |         | 5         | 1850.7          | 18607   | 18.96                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.21                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.40                 | 19.5                                | 0-1                      |
|            |            | 3 RB    | 0         | 1850.7          | 18607   | 18.02                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.24                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.49                 | 18.5                                | 0-2                      |
|            |            |         | 2         | 1850.7          | 18607   | 18.02                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.26                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.50                 | 18.5                                | 0-2                      |
|            |            |         | 3         | 1850.7          | 18607   | 18.05                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.25                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.47                 | 18.5                                | 0-2                      |
|            |            | 6RB     |           | 1850.7          | 18607   | 17.87                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.00                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.13                 | 18.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4        | 64-QAM     | 1 RB    | 0         | 1850.7          | 18607   | 19.21                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.44                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.40                 | 19.5                                | 0-1                      |
|            |            |         | 2         | 1850.7          | 18607   | 19.31                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.39                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.37                 | 19.5                                | 0-1                      |
|            |            |         | 5         | 1850.7          | 18607   | 18.92                 | 19.5                                | 0-1                      |
|            |            |         |           | 1880            | 18900   | 19.20                 | 19.5                                | 0-1                      |
|            |            |         |           | 1909.3          | 19193   | 19.36                 | 19.5                                | 0-1                      |
|            |            | 3 RB    | 0         | 1850.7          | 18607   | 17.94                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.20                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.44                 | 18.5                                | 0-2                      |
|            |            |         | 2         | 1850.7          | 18607   | 18.00                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.18                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.46                 | 18.5                                | 0-2                      |
|            |            |         | 3         | 1850.7          | 18607   | 17.97                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 18.19                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.37                 | 18.5                                | 0-2                      |
|            |            | 6RB     |           | 1850.7          | 18607   | 17.86                 | 18.5                                | 0-2                      |
|            |            |         |           | 1880            | 18900   | 17.98                 | 18.5                                | 0-2                      |
|            |            |         |           | 1909.3          | 19193   | 18.05                 | 18.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20         | QPSK       | 1 RB    | 0         | 1720            | 20050   | 22.41                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.19                 | 24                                  | 0                        |
|            |            |         |           | 1745            | 20300   | 22.32                 | 24                                  | 0                        |
|            |            |         | 50        | 1720            | 20050   | 22.49                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.02                 | 24                                  | 0                        |
|            |            |         |           | 1745            | 20300   | 22.18                 | 24                                  | 0                        |
|            |            |         | 99        | 1720            | 20050   | 22.21                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.08                 | 24                                  | 0                        |
|            |            |         |           | 1745            | 20300   | 22.44                 | 24                                  | 0                        |
|            |            | 50 RB   | 0         | 1720            | 20050   | 21.42                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.40                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.31                 | 23                                  | 0-1                      |
|            |            |         | 25        | 1720            | 20050   | 21.35                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.18                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.32                 | 23                                  | 0-1                      |
|            |            |         | 50        | 1720            | 20050   | 21.22                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.19                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.21                 | 23                                  | 0-1                      |
|            |            | 100RB   |           | 1720            | 20050   | 21.33                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.27                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.22                 | 23                                  | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1720            | 20050   | 21.73                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.54                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 22.02                 | 23                                  | 0-1                      |
|            |            |         | 50        | 1720            | 20050   | 21.91                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.58                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.70                 | 23                                  | 0-1                      |
|            |            |         | 99        | 1720            | 20050   | 21.77                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.22                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.37                 | 23                                  | 0-1                      |
|            |            | 50 RB   | 0         | 1720            | 20050   | 20.41                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.27                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.24                 | 22                                  | 0-2                      |
|            |            |         | 25        | 1720            | 20050   | 20.15                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.21                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.40                 | 22                                  | 0-2                      |
|            |            |         | 50        | 1720            | 20050   | 20.33                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.12                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.18                 | 22                                  | 0-2                      |
|            |            | 100RB   |           | 1720            | 20050   | 20.27                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.22                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.18                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20         | 64-QAM     | 1 RB    | 0         | 1720            | 20050   | 21.73                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.48                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.99                 | 23                                  | 0-1                      |
|            |            |         | 50        | 1720            | 20050   | 21.90                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.54                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.66                 | 23                                  | 0-1                      |
|            |            |         | 99        | 1720            | 20050   | 21.77                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.16                 | 23                                  | 0-1                      |
|            |            |         |           | 1745            | 20300   | 21.32                 | 23                                  | 0-1                      |
|            |            | 50 RB   | 0         | 1720            | 20050   | 20.33                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.21                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.19                 | 22                                  | 0-2                      |
|            |            |         | 25        | 1720            | 20050   | 20.07                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.13                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.39                 | 22                                  | 0-2                      |
|            |            |         | 50        | 1720            | 20050   | 20.25                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.11                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.13                 | 22                                  | 0-2                      |
|            |            | 100RB   |           | 1720            | 20050   | 20.21                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.20                 | 22                                  | 0-2                      |
|            |            |         |           | 1745            | 20300   | 20.16                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15         | QPSK       | 1 RB    | 0         | 1717.5          | 20025   | 22.41                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.28                 | 24                                  | 0                        |
|            |            |         |           | 1747.5          | 20325   | 22.27                 | 24                                  | 0                        |
|            |            |         | 36        | 1717.5          | 20025   | 22.30                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.11                 | 24                                  | 0                        |
|            |            |         |           | 1747.5          | 20325   | 22.17                 | 24                                  | 0                        |
|            |            |         | 74        | 1717.5          | 20025   | 22.18                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.13                 | 24                                  | 0                        |
|            |            |         |           | 1747.5          | 20325   | 22.38                 | 24                                  | 0                        |
|            |            | 36 RB   | 0         | 1717.5          | 20025   | 21.34                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.44                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.23                 | 23                                  | 0-1                      |
|            |            |         | 18        | 1717.5          | 20025   | 21.40                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.20                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.23                 | 23                                  | 0-1                      |
|            |            |         | 37        | 1717.5          | 20025   | 21.24                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.09                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.28                 | 23                                  | 0-1                      |
|            |            | 75RB    |           | 1717.5          | 20025   | 21.27                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.35                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.34                 | 23                                  | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1717.5          | 20025   | 21.52                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.90                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.60                 | 23                                  | 0-1                      |
|            |            |         | 36        | 1717.5          | 20025   | 21.75                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.27                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.48                 | 23                                  | 0-1                      |
|            |            |         | 74        | 1717.5          | 20025   | 21.65                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.36                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.56                 | 23                                  | 0-1                      |
|            |            | 36 RB   | 0         | 1717.5          | 20025   | 20.37                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.26                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.33                 | 22                                  | 0-2                      |
|            |            |         | 18        | 1717.5          | 20025   | 20.30                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.04                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.34                 | 22                                  | 0-2                      |
|            |            |         | 37        | 1717.5          | 20025   | 20.10                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.08                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.28                 | 22                                  | 0-2                      |
|            |            | 75RB    |           | 1717.5          | 20025   | 20.31                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.19                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.40                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15         | 64-QAM     | 1 RB    | 0         | 1717.5          | 20025   | 21.48                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.84                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.56                 | 23                                  | 0-1                      |
|            |            |         | 36        | 1717.5          | 20025   | 21.67                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.24                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.38                 | 23                                  | 0-1                      |
|            |            |         | 74        | 1717.5          | 20025   | 21.60                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.27                 | 23                                  | 0-1                      |
|            |            |         |           | 1747.5          | 20325   | 21.54                 | 23                                  | 0-1                      |
|            |            | 36 RB   | 0         | 1717.5          | 20025   | 20.36                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.21                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.28                 | 22                                  | 0-2                      |
|            |            |         | 18        | 1717.5          | 20025   | 20.29                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.01                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.27                 | 22                                  | 0-2                      |
|            |            |         | 37        | 1717.5          | 20025   | 20.07                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.01                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.22                 | 22                                  | 0-2                      |
|            |            | 75RB    |           | 1717.5          | 20025   | 20.24                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.15                 | 22                                  | 0-2                      |
|            |            |         |           | 1747.5          | 20325   | 20.39                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10         | QPSK       | 1 RB    | 0         | 1715            | 20000   | 22.18                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.33                 | 24                                  | 0                        |
|            |            |         |           | 1750            | 20350   | 22.29                 | 24                                  | 0                        |
|            |            |         | 25        | 1715            | 20000   | 22.32                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.07                 | 24                                  | 0                        |
|            |            |         |           | 1750            | 20350   | 22.28                 | 24                                  | 0                        |
|            |            |         | 49        | 1715            | 20000   | 22.40                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.02                 | 24                                  | 0                        |
|            |            |         |           | 1750            | 20350   | 22.27                 | 24                                  | 0                        |
|            |            | 25 RB   | 0         | 1715            | 20000   | 21.28                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.44                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.26                 | 23                                  | 0-1                      |
|            |            |         | 12        | 1715            | 20000   | 21.26                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.18                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.31                 | 23                                  | 0-1                      |
|            |            |         | 25        | 1715            | 20000   | 21.38                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.14                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.28                 | 23                                  | 0-1                      |
|            |            | 50RB    |           | 1715            | 20000   | 21.39                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.31                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.40                 | 23                                  | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1715            | 20000   | 21.54                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.21                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.08                 | 23                                  | 0-1                      |
|            |            |         | 25        | 1715            | 20000   | 21.64                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.35                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.29                 | 23                                  | 0-1                      |
|            |            |         | 49        | 1715            | 20000   | 21.12                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.06                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.80                 | 23                                  | 0-1                      |
|            |            | 25 RB   | 0         | 1715            | 20000   | 20.41                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.36                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.25                 | 22                                  | 0-2                      |
|            |            |         | 12        | 1715            | 20000   | 20.31                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.17                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.30                 | 22                                  | 0-2                      |
|            |            |         | 25        | 1715            | 20000   | 20.59                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.04                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.33                 | 22                                  | 0-2                      |
|            |            | 50RB    |           | 1715            | 20000   | 20.44                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.31                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.44                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10         | 64-QAM     | 1 RB    | 0         | 1715            | 20000   | 21.50                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.16                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.04                 | 23                                  | 0-1                      |
|            |            |         | 25        | 1715            | 20000   | 21.59                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.25                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.22                 | 23                                  | 0-1                      |
|            |            |         | 49        | 1715            | 20000   | 21.06                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.14                 | 23                                  | 0-1                      |
|            |            |         |           | 1750            | 20350   | 21.76                 | 23                                  | 0-1                      |
|            |            | 25 RB   | 0         | 1715            | 20000   | 20.31                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.31                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.21                 | 22                                  | 0-2                      |
|            |            |         | 12        | 1715            | 20000   | 20.24                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.15                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.23                 | 22                                  | 0-2                      |
|            |            |         | 25        | 1715            | 20000   | 20.55                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.03                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.24                 | 22                                  | 0-2                      |
|            |            | 50RB    |           | 1715            | 20000   | 20.43                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.28                 | 22                                  | 0-2                      |
|            |            |         |           | 1750            | 20350   | 20.37                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5          | QPSK       | 1 RB    | 0         | 1712.5          | 19975   | 22.22                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.39                 | 24                                  | 0                        |
|            |            |         |           | 1752.5          | 20375   | 22.15                 | 24                                  | 0                        |
|            |            |         | 12        | 1712.5          | 19975   | 22.32                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.36                 | 24                                  | 0                        |
|            |            |         |           | 1752.5          | 20375   | 22.39                 | 24                                  | 0                        |
|            |            |         | 24        | 1712.5          | 19975   | 22.43                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.06                 | 24                                  | 0                        |
|            |            |         |           | 1752.5          | 20375   | 22.34                 | 24                                  | 0                        |
|            |            | 12 RB   | 0         | 1712.5          | 19975   | 21.25                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.36                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.31                 | 23                                  | 0-1                      |
|            |            |         | 6         | 1712.5          | 19975   | 21.18                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.24                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.31                 | 23                                  | 0-1                      |
|            |            |         | 13        | 1712.5          | 19975   | 21.22                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.05                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.37                 | 23                                  | 0-1                      |
|            |            | 25RB    |           | 1712.5          | 19975   | 21.25                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.39                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.24                 | 23                                  | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1712.5          | 19975   | 21.42                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.16                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.22                 | 23                                  | 0-1                      |
|            |            |         | 12        | 1712.5          | 19975   | 21.07                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.34                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.35                 | 23                                  | 0-1                      |
|            |            |         | 24        | 1712.5          | 19975   | 22.29                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.23                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.70                 | 23                                  | 0-1                      |
|            |            | 12 RB   | 0         | 1712.5          | 19975   | 20.17                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.31                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.22                 | 22                                  | 0-2                      |
|            |            |         | 6         | 1712.5          | 19975   | 20.14                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.12                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.20                 | 22                                  | 0-2                      |
|            |            |         | 13        | 1712.5          | 19975   | 20.10                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.13                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.30                 | 22                                  | 0-2                      |
|            |            | 25RB    |           | 1712.5          | 19975   | 20.43                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.28                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.52                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5          | 64-QAM     | 1 RB    | 0         | 1712.5          | 19975   | 21.36                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.14                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.21                 | 23                                  | 0-1                      |
|            |            |         | 12        | 1712.5          | 19975   | 21.01                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.29                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.28                 | 23                                  | 0-1                      |
|            |            |         | 24        | 1712.5          | 19975   | 22.24                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.14                 | 23                                  | 0-1                      |
|            |            |         |           | 1752.5          | 20375   | 21.64                 | 23                                  | 0-1                      |
|            |            | 12 RB   | 0         | 1712.5          | 19975   | 20.11                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.26                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.21                 | 22                                  | 0-2                      |
|            |            |         | 6         | 1712.5          | 19975   | 20.04                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.12                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.11                 | 22                                  | 0-2                      |
|            |            |         | 13        | 1712.5          | 19975   | 20.01                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.12                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.27                 | 22                                  | 0-2                      |
|            |            | 25RB    |           | 1712.5          | 19975   | 20.40                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.20                 | 22                                  | 0-2                      |
|            |            |         |           | 1752.5          | 20375   | 20.47                 | 22                                  | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3          | QPSK       | 1 RB    | 0         | 1711.5          | 19965   | 22.31                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.37                 | 24                                  | 0                        |
|            |            |         |           | 1753.5          | 20385   | 22.34                 | 24                                  | 0                        |
|            |            |         | 7         | 1711.5          | 19965   | 22.14                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.32                 | 24                                  | 0                        |
|            |            |         |           | 1753.5          | 20385   | 22.39                 | 24                                  | 0                        |
|            |            |         | 14        | 1711.5          | 19965   | 22.01                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.08                 | 24                                  | 0                        |
|            |            |         |           | 1753.5          | 20385   | 22.36                 | 24                                  | 0                        |
|            |            | 8 RB    | 0         | 1711.5          | 19965   | 21.36                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.40                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.34                 | 23                                  | 0-1                      |
|            |            |         | 4         | 1711.5          | 19965   | 21.33                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.30                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.32                 | 23                                  | 0-1                      |
|            |            |         | 7         | 1711.5          | 19965   | 21.21                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.11                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.31                 | 23                                  | 0-1                      |
|            |            | 15RB    | 1711.5    | 19965           | 21.24   | 23                    | 0-1                                 |                          |
|            |            |         | 1732.5    | 20175           | 21.20   | 23                    | 0-1                                 |                          |
|            |            |         | 1753.5    | 20385           | 21.33   | 23                    | 0-1                                 |                          |
|            | 16-QAM     | 1 RB    | 0         | 1711.5          | 19965   | 21.44                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.23                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.76                 | 23                                  | 0-1                      |
|            |            |         | 7         | 1711.5          | 19965   | 21.44                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.29                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.75                 | 23                                  | 0-1                      |
|            |            |         | 14        | 1711.5          | 19965   | 21.71                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.17                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.71                 | 23                                  | 0-1                      |
|            |            | 8 RB    | 0         | 1711.5          | 19965   | 20.05                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.48                 | 22                                  | 0-2                      |
|            |            |         |           | 1753.5          | 20385   | 20.04                 | 22                                  | 0-2                      |
|            |            |         | 4         | 1711.5          | 19965   | 20.15                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.48                 | 22                                  | 0-2                      |
|            |            |         |           | 1753.5          | 20385   | 20.01                 | 22                                  | 0-2                      |
|            |            |         | 7         | 1711.5          | 19965   | 20.20                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.17                 | 22                                  | 0-2                      |
|            |            |         |           | 1753.5          | 20385   | 20.46                 | 22                                  | 0-2                      |
|            |            | 15RB    | 1711.5    | 19965           | 20.30   | 22                    | 0-2                                 |                          |
|            |            |         | 1732.5    | 20175           | 20.45   | 22                    | 0-2                                 |                          |
|            |            |         | 1753.5    | 20385           | 20.53   | 22                    | 0-2                                 |                          |

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| FDD Band 4 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3          | 64-QAM     | 1 RB    | 0         | 1711.5          | 19965   | 21.40                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.14                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.73                 | 23                                  | 0-1                      |
|            |            |         | 7         | 1711.5          | 19965   | 21.38                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.27                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.70                 | 23                                  | 0-1                      |
|            |            |         | 14        | 1711.5          | 19965   | 21.69                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.16                 | 23                                  | 0-1                      |
|            |            |         |           | 1753.5          | 20385   | 21.63                 | 23                                  | 0-1                      |
|            |            | 8 RB    | 0         | 1711.5          | 19965   | 20.06                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.39                 | 22                                  | 0-2                      |
|            |            |         |           | 1753.5          | 20385   | 20.02                 | 22                                  | 0-2                      |
|            |            |         | 4         | 1711.5          | 19965   | 20.10                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.48                 | 22                                  | 0-2                      |
|            |            |         |           | 1753.5          | 20385   | 20.12                 | 22                                  | 0-2                      |
|            |            |         | 7         | 1711.5          | 19965   | 20.15                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.08                 | 22                                  | 0-2                      |
|            |            |         |           | 1753.5          | 20385   | 20.45                 | 22                                  | 0-2                      |
|            |            | 15RB    |           | 1711.5          | 19965   | 20.22                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.44                 | 22                                  | 0-2                      |
|            |            |         |           | 1753.5          | 20385   | 20.49                 | 22                                  | 0-2                      |

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| FDD Band 4 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4        | QPSK       | 1 RB    | 0         | 1710.7          | 19957   | 22.22                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.13                 | 24                                  | 0                        |
|            |            |         |           | 1754.3          | 20393   | 22.09                 | 24                                  | 0                        |
|            |            |         | 2         | 1710.7          | 19957   | 22.34                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.24                 | 24                                  | 0                        |
|            |            |         |           | 1754.3          | 20393   | 22.16                 | 24                                  | 0                        |
|            |            |         | 5         | 1710.7          | 19957   | 22.19                 | 24                                  | 0                        |
|            |            |         |           | 1732.5          | 20175   | 22.04                 | 24                                  | 0                        |
|            |            |         |           | 1754.3          | 20393   | 22.06                 | 24                                  | 0                        |
|            |            | 3 RB    | 0         | 1710.7          | 19957   | 22.18                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 22.34                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 22.14                 | 23                                  | 0-1                      |
|            |            |         | 2         | 1710.7          | 19957   | 22.27                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 22.34                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 22.18                 | 23                                  | 0-1                      |
|            |            |         | 3         | 1710.7          | 19957   | 22.24                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 22.19                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 22.15                 | 23                                  | 0-1                      |
|            |            | 6RB     |           | 1710.7          | 19957   | 21.23                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.34                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 21.35                 | 23                                  | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 1710.7          | 19957   | 21.66                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.36                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 21.65                 | 23                                  | 0-1                      |
|            |            |         | 2         | 1710.7          | 19957   | 21.67                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.15                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 21.58                 | 23                                  | 0-1                      |
|            |            |         | 5         | 1710.7          | 19957   | 21.24                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.39                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 21.00                 | 23                                  | 0-1                      |
|            |            | 3 RB    | 0         | 1710.7          | 19957   | 21.23                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 21.49                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 21.22                 | 22                                  | 0-2                      |
|            |            |         | 2         | 1710.7          | 19957   | 21.44                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 21.43                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 21.37                 | 22                                  | 0-2                      |
|            |            |         | 3         | 1710.7          | 19957   | 21.58                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 21.38                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 21.27                 | 22                                  | 0-2                      |
|            |            | 6RB     |           | 1710.7          | 19957   | 21.05                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.24                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 20.37                 | 22                                  | 0-2                      |

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| FDD Band 4 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4        | 64-QAM     | 1 RB    | 0         | 1710.7          | 19957   | 21.57                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.31                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 21.60                 | 23                                  | 0-1                      |
|            |            |         | 2         | 1710.7          | 19957   | 21.60                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.06                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 21.51                 | 23                                  | 0-1                      |
|            |            |         | 5         | 1710.7          | 19957   | 21.17                 | 23                                  | 0-1                      |
|            |            |         |           | 1732.5          | 20175   | 21.33                 | 23                                  | 0-1                      |
|            |            |         |           | 1754.3          | 20393   | 21.11                 | 23                                  | 0-1                      |
|            |            | 3 RB    | 0         | 1710.7          | 19957   | 21.22                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 21.41                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 21.16                 | 22                                  | 0-2                      |
|            |            |         | 2         | 1710.7          | 19957   | 21.34                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 21.39                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 21.35                 | 22                                  | 0-2                      |
|            |            |         | 3         | 1710.7          | 19957   | 21.56                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 21.36                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 21.21                 | 22                                  | 0-2                      |
|            |            | 6RB     |           | 1710.7          | 19957   | 21.03                 | 22                                  | 0-2                      |
|            |            |         |           | 1732.5          | 20175   | 20.14                 | 22                                  | 0-2                      |
|            |            |         |           | 1754.3          | 20393   | 20.30                 | 22                                  | 0-2                      |

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| FDD Band 5 |            |         |           |                 |         |                       |                                     |                          |     |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 10         | QPSK       | 1 RB    | 0         | 829             | 20450   | 22.71                 | 24.5                                | 0                        |     |
|            |            |         |           | 836.5           | 20525   | 23.10                 | 24.5                                | 0                        |     |
|            |            |         |           | 844             | 20600   | 22.93                 | 24.5                                | 0                        |     |
|            |            |         | 25        | 829             | 20450   | 22.73                 | 24.5                                | 0                        |     |
|            |            |         |           | 836.5           | 20525   | 22.55                 | 24.5                                | 0                        |     |
|            |            |         |           | 844             | 20600   | 22.82                 | 24.5                                | 0                        |     |
|            |            |         | 49        | 829             | 20450   | 22.73                 | 24.5                                | 0                        |     |
|            |            |         |           | 836.5           | 20525   | 22.87                 | 24.5                                | 0                        |     |
|            |            |         |           | 844             | 20600   | 22.74                 | 24.5                                | 0                        |     |
|            |            | 25 RB   | 0         | 829             | 20450   | 21.74                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 836.5           | 20525   | 21.83                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 844             | 20600   | 21.93                 | 23.5                                | 0-1                      |     |
|            |            |         | 12        | 829             | 20450   | 21.74                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 836.5           | 20525   | 21.71                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 844             | 20600   | 21.80                 | 23.5                                | 0-1                      |     |
|            |            |         | 25        | 829             | 20450   | 21.72                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 836.5           | 20525   | 21.82                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 844             | 20600   | 21.84                 | 23.5                                | 0-1                      |     |
|            |            | 50RB    | 829       | 20450           | 21.77   | 23.5                  | 0-1                                 |                          |     |
|            |            |         | 836.5     | 20525           | 21.77   | 23.5                  | 0-1                                 |                          |     |
|            |            |         | 844       | 20600           | 21.91   | 23.5                  | 0-1                                 |                          |     |
|            |            | 16-QAM  | 1 RB      | 0               | 829     | 20450                 | 21.93                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 836.5   | 20525                 | 22.68                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 844     | 20600                 | 22.09                               | 23.5                     | 0-1 |
|            |            |         |           | 25              | 829     | 20450                 | 21.78                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 836.5   | 20525                 | 21.89                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 844     | 20600                 | 21.73                               | 23.5                     | 0-1 |
|            | 49         |         |           | 829             | 20450   | 21.85                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 836.5           | 20525   | 22.28                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 844             | 20600   | 21.59                 | 23.5                                | 0-1                      |     |
|            | 25 RB      |         | 0         | 829             | 20450   | 20.83                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 836.5           | 20525   | 20.68                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 844             | 20600   | 21.16                 | 22.5                                | 0-2                      |     |
|            |            |         | 12        | 829             | 20450   | 20.84                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 836.5           | 20525   | 20.53                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 844             | 20600   | 20.73                 | 22.5                                | 0-2                      |     |
|            |            |         | 25        | 829             | 20450   | 20.79                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 836.5           | 20525   | 20.59                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 844             | 20600   | 20.55                 | 22.5                                | 0-2                      |     |
|            | 500RB      |         | 829       | 20450           | 20.60   | 22.5                  | 0-2                                 |                          |     |
|            |            |         | 836.5     | 20525           | 20.66   | 22.5                  | 0-2                                 |                          |     |
|            |            |         | 844       | 20600           | 20.83   | 22.5                  | 0-2                                 |                          |     |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10         | 64-QAM     | 1 RB    | 0         | 829             | 20450   | 21.85                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.68                 | 23.5                                | 0-1                      |
|            |            |         |           | 844             | 20600   | 22.03                 | 23.5                                | 0-1                      |
|            |            |         | 25        | 829             | 20450   | 21.66                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.84                 | 23.5                                | 0-1                      |
|            |            |         |           | 844             | 20600   | 21.57                 | 23.5                                | 0-1                      |
|            |            |         | 49        | 829             | 20450   | 21.74                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.22                 | 23.5                                | 0-1                      |
|            |            |         |           | 844             | 20600   | 21.57                 | 23.5                                | 0-1                      |
|            |            | 25 RB   | 0         | 829             | 20450   | 20.74                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.61                 | 22.5                                | 0-2                      |
|            |            |         |           | 844             | 20600   | 20.99                 | 22.5                                | 0-2                      |
|            |            |         | 12        | 829             | 20450   | 20.65                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.52                 | 22.5                                | 0-2                      |
|            |            |         |           | 844             | 20600   | 20.62                 | 22.5                                | 0-2                      |
|            |            |         | 25        | 829             | 20450   | 20.60                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.53                 | 22.5                                | 0-2                      |
|            |            |         |           | 844             | 20600   | 20.58                 | 22.5                                | 0-2                      |
|            |            | 500RB   |           | 829             | 20450   | 20.55                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.63                 | 22.5                                | 0-2                      |
|            |            |         |           | 844             | 20600   | 20.80                 | 22.5                                | 0-2                      |

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| FDD Band 5 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5          | QPSK       | 1 RB    | 0         | 826.5           | 20425   | 22.71                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 23.02                 | 24.5                                | 0                        |
|            |            |         |           | 846.5           | 20625   | 22.87                 | 24.5                                | 0                        |
|            |            |         | 12        | 826.5           | 20425   | 22.63                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 22.56                 | 24.5                                | 0                        |
|            |            |         |           | 846.5           | 20625   | 22.75                 | 24.5                                | 0                        |
|            |            |         | 24        | 826.5           | 20425   | 22.72                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 22.84                 | 24.5                                | 0                        |
|            |            |         |           | 846.5           | 20625   | 22.72                 | 24.5                                | 0                        |
|            |            | 12 RB   | 0         | 826.5           | 20425   | 21.73                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.74                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.89                 | 23.5                                | 0-1                      |
|            |            |         | 6         | 826.5           | 20425   | 21.64                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.62                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.75                 | 23.5                                | 0-1                      |
|            |            |         | 13        | 826.5           | 20425   | 21.68                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.78                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.77                 | 23.5                                | 0-1                      |
|            |            | 25RB    |           | 826.5           | 20425   | 21.71                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.77                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.89                 | 23.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 826.5           | 20425   | 21.93                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.67                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 22.01                 | 23.5                                | 0-1                      |
|            |            |         | 12        | 826.5           | 20425   | 21.77                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.84                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.68                 | 23.5                                | 0-1                      |
|            |            |         | 24        | 826.5           | 20425   | 21.78                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.19                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.50                 | 23.5                                | 0-1                      |
|            |            | 12 RB   | 0         | 826.5           | 20425   | 20.77                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.66                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 21.10                 | 22.5                                | 0-2                      |
|            |            |         | 6         | 826.5           | 20425   | 20.79                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.57                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 20.72                 | 22.5                                | 0-2                      |
|            |            |         | 13        | 826.5           | 20425   | 20.70                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.56                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 20.53                 | 22.5                                | 0-2                      |
|            |            | 25RB    |           | 826.5           | 20425   | 20.57                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.62                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 20.82                 | 22.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5          | 64-QAM     | 1 RB    | 0         | 826.5           | 20425   | 21.80                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.68                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 22.02                 | 23.5                                | 0-1                      |
|            |            |         | 12        | 826.5           | 20425   | 21.58                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.78                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.55                 | 23.5                                | 0-1                      |
|            |            |         | 24        | 826.5           | 20425   | 21.65                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.19                 | 23.5                                | 0-1                      |
|            |            |         |           | 846.5           | 20625   | 21.52                 | 23.5                                | 0-1                      |
|            |            | 12 RB   | 0         | 826.5           | 20425   | 20.70                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.54                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 20.90                 | 22.5                                | 0-2                      |
|            |            |         | 6         | 826.5           | 20425   | 20.64                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.50                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 20.56                 | 22.5                                | 0-2                      |
|            |            |         | 13        | 826.5           | 20425   | 20.57                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.50                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 20.57                 | 22.5                                | 0-2                      |
|            |            | 25RB    |           | 826.5           | 20425   | 20.56                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.56                 | 22.5                                | 0-2                      |
|            |            |         |           | 846.5           | 20625   | 20.77                 | 22.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3          | QPSK       | 1 RB    | 0         | 825.5           | 20415   | 22.63                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 23.01                 | 24.5                                | 0                        |
|            |            |         |           | 847.5           | 20635   | 22.89                 | 24.5                                | 0                        |
|            |            |         | 7         | 825.5           | 20415   | 22.73                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 22.57                 | 24.5                                | 0                        |
|            |            |         |           | 847.5           | 20635   | 22.80                 | 24.5                                | 0                        |
|            |            |         | 14        | 825.5           | 20415   | 22.69                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 22.80                 | 24.5                                | 0                        |
|            |            |         |           | 847.5           | 20635   | 22.65                 | 24.5                                | 0                        |
|            |            | 8 RB    | 0         | 825.5           | 20415   | 21.68                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.77                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.89                 | 23.5                                | 0-1                      |
|            |            |         | 4         | 825.5           | 20415   | 21.69                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.65                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.76                 | 23.5                                | 0-1                      |
|            |            |         | 7         | 825.5           | 20415   | 21.71                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.73                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.82                 | 23.5                                | 0-1                      |
|            |            | 15RB    |           | 825.5           | 20415   | 21.73                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.69                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.82                 | 23.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 825.5           | 20415   | 21.92                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.58                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 22.07                 | 23.5                                | 0-1                      |
|            |            |         | 7         | 825.5           | 20415   | 21.75                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.88                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.68                 | 23.5                                | 0-1                      |
|            |            |         | 14        | 825.5           | 20415   | 21.77                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.26                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.55                 | 23.5                                | 0-1                      |
|            |            | 8 RB    | 0         | 825.5           | 20415   | 20.75                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.63                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 21.12                 | 22.5                                | 0-2                      |
|            |            |         | 4         | 825.5           | 20415   | 20.76                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.58                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 20.67                 | 22.5                                | 0-2                      |
|            |            |         | 7         | 825.5           | 20415   | 20.72                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.54                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 20.53                 | 22.5                                | 0-2                      |
|            |            | 15RB    |           | 825.5           | 20415   | 20.57                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.64                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 20.75                 | 22.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3          | 64-QAM     | 1 RB    | 0         | 825.5           | 20415   | 21.79                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.62                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.95                 | 23.5                                | 0-1                      |
|            |            |         | 7         | 825.5           | 20415   | 21.61                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.79                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.59                 | 23.5                                | 0-1                      |
|            |            |         | 14        | 825.5           | 20415   | 21.69                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.21                 | 23.5                                | 0-1                      |
|            |            |         |           | 847.5           | 20635   | 21.58                 | 23.5                                | 0-1                      |
|            |            | 8 RB    | 0         | 825.5           | 20415   | 20.64                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.51                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 20.95                 | 22.5                                | 0-2                      |
|            |            |         | 4         | 825.5           | 20415   | 20.58                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.59                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 20.56                 | 22.5                                | 0-2                      |
|            |            |         | 7         | 825.5           | 20415   | 20.55                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.53                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 20.56                 | 22.5                                | 0-2                      |
|            |            | 15RB    |           | 825.5           | 20415   | 20.53                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.57                 | 22.5                                | 0-2                      |
|            |            |         |           | 847.5           | 20635   | 20.76                 | 22.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4        | QPSK       | 1 RB    | 0         | 824.7           | 20407   | 22.69                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 23.09                 | 24.5                                | 0                        |
|            |            |         |           | 848.3           | 20643   | 22.88                 | 24.5                                | 0                        |
|            |            |         | 2         | 824.7           | 20407   | 22.63                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 22.59                 | 24.5                                | 0                        |
|            |            |         |           | 848.3           | 20643   | 22.78                 | 24.5                                | 0                        |
|            |            |         | 5         | 824.7           | 20407   | 22.71                 | 24.5                                | 0                        |
|            |            |         |           | 836.5           | 20525   | 22.84                 | 24.5                                | 0                        |
|            |            |         |           | 848.3           | 20643   | 22.66                 | 24.5                                | 0                        |
|            |            | 3 RB    | 0         | 824.7           | 20407   | 21.72                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.75                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.93                 | 23.5                                | 0-1                      |
|            |            |         | 2         | 824.7           | 20407   | 21.66                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.61                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.77                 | 23.5                                | 0-1                      |
|            |            |         | 3         | 824.7           | 20407   | 21.70                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.79                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.75                 | 23.5                                | 0-1                      |
|            |            | 6RB     |           | 824.7           | 20407   | 21.73                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.70                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.87                 | 23.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 824.7           | 20407   | 21.93                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.59                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 22.01                 | 23.5                                | 0-1                      |
|            |            |         | 2         | 824.7           | 20407   | 21.69                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.82                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.67                 | 23.5                                | 0-1                      |
|            |            |         | 5         | 824.7           | 20407   | 21.75                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.23                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.54                 | 23.5                                | 0-1                      |
|            |            | 3 RB    | 0         | 824.7           | 20407   | 20.73                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.66                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 21.08                 | 22.5                                | 0-2                      |
|            |            |         | 2         | 824.7           | 20407   | 20.77                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.52                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 20.69                 | 22.5                                | 0-2                      |
|            |            |         | 3         | 824.7           | 20407   | 20.73                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.55                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 20.56                 | 22.5                                | 0-2                      |
|            |            | 6RB     |           | 824.7           | 20407   | 20.54                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.63                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 20.79                 | 22.5                                | 0-2                      |

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| FDD Band 5 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4        | 64-QAM     | 1 RB    | 0         | 824.7           | 20407   | 21.83                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.58                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.98                 | 23.5                                | 0-1                      |
|            |            |         | 2         | 824.7           | 20407   | 21.65                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 21.74                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.52                 | 23.5                                | 0-1                      |
|            |            |         | 5         | 824.7           | 20407   | 21.68                 | 23.5                                | 0-1                      |
|            |            |         |           | 836.5           | 20525   | 22.16                 | 23.5                                | 0-1                      |
|            |            |         |           | 848.3           | 20643   | 21.57                 | 23.5                                | 0-1                      |
|            |            | 3 RB    | 0         | 824.7           | 20407   | 20.68                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.54                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 20.95                 | 22.5                                | 0-2                      |
|            |            |         | 2         | 824.7           | 20407   | 20.60                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.50                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 20.55                 | 22.5                                | 0-2                      |
|            |            |         | 3         | 824.7           | 20407   | 20.50                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.59                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 20.57                 | 22.5                                | 0-2                      |
|            |            | 6RB     |           | 824.7           | 20407   | 20.51                 | 22.5                                | 0-2                      |
|            |            |         |           | 836.5           | 20525   | 20.59                 | 22.5                                | 0-2                      |
|            |            |         |           | 848.3           | 20643   | 20.78                 | 22.5                                | 0-2                      |

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| FDD Band 7 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20         | QPSK       | 1 RB    | 0         | 2510            | 20850   | 23.39                 | 24.5                                | 0                        |
|            |            |         |           | 2535            | 21100   | 23.23                 | 24.5                                | 0                        |
|            |            |         |           | 2560            | 21350   | 23.44                 | 24.5                                | 0                        |
|            |            |         | 50        | 2510            | 20850   | 23.10                 | 24.5                                | 0                        |
|            |            |         |           | 2535            | 21100   | 23.55                 | 24.5                                | 0                        |
|            |            |         |           | 2560            | 21350   | 23.17                 | 24.5                                | 0                        |
|            |            |         | 99        | 2510            | 20850   | 23.01                 | 24.5                                | 0                        |
|            |            |         |           | 2535            | 21100   | 23.36                 | 24.5                                | 0                        |
|            |            |         |           | 2560            | 21350   | 23.49                 | 24.5                                | 0                        |
|            |            | 50 RB   | 0         | 2510            | 20850   | 22.41                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.41                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.43                 | 23.5                                | 0-1                      |
|            |            |         | 25        | 2510            | 20850   | 22.24                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.37                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.40                 | 23.5                                | 0-1                      |
|            |            |         | 50        | 2510            | 20850   | 22.22                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.43                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.59                 | 23.5                                | 0-1                      |
|            |            | 100RB   |           | 2510            | 20850   | 22.37                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.42                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.39                 | 23.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 2510            | 20850   | 22.66                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.32                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.71                 | 23.5                                | 0-1                      |
|            |            |         | 50        | 2510            | 20850   | 22.39                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.74                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.76                 | 23.5                                | 0-1                      |
|            |            |         | 99        | 2510            | 20850   | 22.61                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.74                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.95                 | 23.5                                | 0-1                      |
|            |            | 50 RB   | 0         | 2510            | 20850   | 21.42                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.39                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.41                 | 22.5                                | 0-2                      |
|            |            |         | 25        | 2510            | 20850   | 21.17                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.68                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.39                 | 22.5                                | 0-2                      |
|            |            |         | 50        | 2510            | 20850   | 21.26                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.52                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.60                 | 22.5                                | 0-2                      |
|            |            | 100RB   |           | 2510            | 20850   | 21.29                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.58                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.54                 | 22.5                                | 0-2                      |

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| FDD Band 7 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20         | 64-QAM     | 1 RB    | 0         | 2510            | 20850   | 22.65                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.30                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.67                 | 23.5                                | 0-1                      |
|            |            |         | 50        | 2510            | 20850   | 22.36                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.73                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.74                 | 23.5                                | 0-1                      |
|            |            |         | 99        | 2510            | 20850   | 22.59                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.72                 | 23.5                                | 0-1                      |
|            |            |         |           | 2560            | 21350   | 22.95                 | 23.5                                | 0-1                      |
|            |            | 50 RB   | 0         | 2510            | 20850   | 21.38                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.35                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.40                 | 22.5                                | 0-2                      |
|            |            |         | 25        | 2510            | 20850   | 21.16                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.68                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.38                 | 22.5                                | 0-2                      |
|            |            |         | 50        | 2510            | 20850   | 21.23                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.50                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.56                 | 22.5                                | 0-2                      |
|            |            | 100RB   |           | 2510            | 20850   | 21.24                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.54                 | 22.5                                | 0-2                      |
|            |            |         |           | 2560            | 21350   | 21.50                 | 22.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15         | QPSK       | 1 RB    | 0         | 2507.5          | 20825   | 23.37                 | 24.5                                | 0                        |
|            |            |         |           | 2535            | 21100   | 23.26                 | 24.5                                | 0                        |
|            |            |         |           | 2562.5          | 21375   | 23.35                 | 24.5                                | 0                        |
|            |            |         | 36        | 2507.5          | 20825   | 23.05                 | 24.5                                | 0                        |
|            |            |         |           | 2535            | 21100   | 23.29                 | 24.5                                | 0                        |
|            |            |         |           | 2562.5          | 21375   | 23.22                 | 24.5                                | 0                        |
|            |            |         | 74        | 2507.5          | 20825   | 23.00                 | 24.5                                | 0                        |
|            |            |         |           | 2535            | 21100   | 23.23                 | 24.5                                | 0                        |
|            |            |         |           | 2562.5          | 21375   | 23.52                 | 24.5                                | 0                        |
|            |            | 36 RB   | 0         | 2507.5          | 20825   | 22.32                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.29                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.35                 | 23.5                                | 0-1                      |
|            |            |         | 18        | 2507.5          | 20825   | 22.16                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.28                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.39                 | 23.5                                | 0-1                      |
|            |            |         | 37        | 2507.5          | 20825   | 22.21                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.53                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.48                 | 23.5                                | 0-1                      |
|            |            | 75RB    |           | 2507.5          | 20825   | 22.23                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.32                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.44                 | 23.5                                | 0-1                      |
|            | 16-QAM     | 1 RB    | 0         | 2507.5          | 20825   | 22.73                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.42                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.48                 | 23.5                                | 0-1                      |
|            |            |         | 36        | 2507.5          | 20825   | 22.14                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.03                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.22                 | 23.5                                | 0-1                      |
|            |            |         | 74        | 2507.5          | 20825   | 22.02                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.16                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 23.15                 | 23.5                                | 0-1                      |
|            |            | 36 RB   | 0         | 2507.5          | 20825   | 21.36                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.35                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.20                 | 22.5                                | 0-2                      |
|            |            |         | 18        | 2507.5          | 20825   | 21.31                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.41                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.44                 | 22.5                                | 0-2                      |
|            |            |         | 37        | 2507.5          | 20825   | 21.29                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.60                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.56                 | 22.5                                | 0-2                      |
|            |            | 75RB    |           | 2507.5          | 20825   | 21.19                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.43                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.56                 | 22.5                                | 0-2                      |

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| FDD Band 7 |            |         |           |                 |         |                       |                                     |                          |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15         | 64-QAM     | 1 RB    | 0         | 2507.5          | 20825   | 22.63                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.28                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.69                 | 23.5                                | 0-1                      |
|            |            |         | 36        | 2507.5          | 20825   | 22.34                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.70                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.72                 | 23.5                                | 0-1                      |
|            |            |         | 74        | 2507.5          | 20825   | 22.58                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.70                 | 23.5                                | 0-1                      |
|            |            |         |           | 2562.5          | 21375   | 22.93                 | 23.5                                | 0-1                      |
|            |            | 36 RB   | 0         | 2507.5          | 20825   | 21.41                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.39                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.36                 | 22.5                                | 0-2                      |
|            |            |         | 18        | 2507.5          | 20825   | 21.15                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.64                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.34                 | 22.5                                | 0-2                      |
|            |            |         | 37        | 2507.5          | 20825   | 21.26                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.50                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.55                 | 22.5                                | 0-2                      |
|            |            | 75RB    |           | 2507.5          | 20825   | 21.24                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.56                 | 22.5                                | 0-2                      |
|            |            |         |           | 2562.5          | 21375   | 21.54                 | 22.5                                | 0-2                      |

| FDD Band 7 |            |         |           |                 |         |                       |                                     |                          |     |
|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 10         | QPSK       | 1 RB    | 0         | 2505            | 20800   | 23.42                 | 24.5                                | 0                        |     |
|            |            |         |           | 2535            | 21100   | 23.02                 | 24.5                                | 0                        |     |
|            |            |         |           | 2565            | 21400   | 23.08                 | 24.5                                | 0                        |     |
|            |            |         | 25        | 2505            | 20800   | 23.00                 | 24.5                                | 0                        |     |
|            |            |         |           | 2535            | 21100   | 23.41                 | 24.5                                | 0                        |     |
|            |            |         |           | 2565            | 21400   | 23.36                 | 24.5                                | 0                        |     |
|            |            |         | 49        | 2505            | 20800   | 23.08                 | 24.5                                | 0                        |     |
|            |            |         |           | 2535            | 21100   | 23.25                 | 24.5                                | 0                        |     |
|            |            |         |           | 2565            | 21400   | 23.49                 | 24.5                                | 0                        |     |
|            |            | 25 RB   | 0         | 2505            | 20800   | 22.39                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.27                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2565            | 21400   | 22.30                 | 23.5                                | 0-1                      |     |
|            |            |         | 12        | 2505            | 20800   | 22.22                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.39                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2565            | 21400   | 22.53                 | 23.5                                | 0-1                      |     |
|            |            |         | 25        | 2505            | 20800   | 22.11                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.43                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2565            | 21400   | 22.51                 | 23.5                                | 0-1                      |     |
|            |            | 50RB    |           |                 | 2505    | 20800                 | 22.32                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 2535    | 21100                 | 22.35                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 2565    | 21400                 | 22.49                               | 23.5                     | 0-1 |
|            | 16-QAM     | 1 RB    | 0         | 2505            | 20800   | 22.40                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.08                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2565            | 21400   | 22.49                 | 23.5                                | 0-1                      |     |
|            |            |         | 25        | 2505            | 20800   | 22.07                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.52                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2565            | 21400   | 22.83                 | 23.5                                | 0-1                      |     |
|            |            |         | 49        | 2505            | 20800   | 22.00                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 23.25                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2565            | 21400   | 22.21                 | 23.5                                | 0-1                      |     |
|            |            | 25 RB   | 0         | 2505            | 20800   | 21.41                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2535            | 21100   | 21.27                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2565            | 21400   | 21.37                 | 22.5                                | 0-2                      |     |
|            |            |         | 12        | 2505            | 20800   | 21.50                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2535            | 21100   | 21.39                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2565            | 21400   | 21.54                 | 22.5                                | 0-2                      |     |
|            |            |         | 25        | 2505            | 20800   | 21.41                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2535            | 21100   | 21.52                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2565            | 21400   | 21.50                 | 22.5                                | 0-2                      |     |
|            |            | 50RB    |           |                 | 2505    | 20800                 | 21.33                               | 22.5                     | 0-2 |
|            |            |         |           |                 | 2535    | 21100                 | 21.33                               | 22.5                     | 0-2 |
|            |            |         |           |                 | 2565    | 21400                 | 21.59                               | 22.5                     | 0-2 |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10         | 64-QAM     | 1 RB    | 0         | 2505            | 20800   | 22.63                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.32                 | 23.5                                | 0-1                      |
|            |            |         |           | 2565            | 21400   | 22.66                 | 23.5                                | 0-1                      |
|            |            |         | 25        | 2505            | 20800   | 22.39                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.71                 | 23.5                                | 0-1                      |
|            |            |         |           | 2565            | 21400   | 22.74                 | 23.5                                | 0-1                      |
|            |            |         | 49        | 2505            | 20800   | 22.58                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.73                 | 23.5                                | 0-1                      |
|            |            |         |           | 2565            | 21400   | 22.93                 | 23.5                                | 0-1                      |
|            |            | 25 RB   | 0         | 2505            | 20800   | 21.38                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.36                 | 22.5                                | 0-2                      |
|            |            |         |           | 2565            | 21400   | 21.39                 | 22.5                                | 0-2                      |
|            |            |         | 12        | 2505            | 20800   | 21.14                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.64                 | 22.5                                | 0-2                      |
|            |            |         |           | 2565            | 21400   | 21.36                 | 22.5                                | 0-2                      |
|            |            |         | 25        | 2505            | 20800   | 21.24                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.47                 | 22.5                                | 0-2                      |
|            |            |         |           | 2565            | 21400   | 21.59                 | 22.5                                | 0-2                      |
|            |            | 50RB    |           | 2505            | 20800   | 21.28                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.58                 | 22.5                                | 0-2                      |
|            |            |         |           | 2565            | 21400   | 21.51                 | 22.5                                | 0-2                      |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 5          | QPSK       | 1 RB    | 0         | 2502.5          | 20775   | 23.45                 | 24.5                                | 0                        |     |
|            |            |         |           | 2535            | 21100   | 23.03                 | 24.5                                | 0                        |     |
|            |            |         |           | 2567.5          | 21425   | 23.29                 | 24.5                                | 0                        |     |
|            |            |         | 12        | 2502.5          | 20775   | 23.31                 | 24.5                                | 0                        |     |
|            |            |         |           | 2535            | 21100   | 23.12                 | 24.5                                | 0                        |     |
|            |            |         |           | 2567.5          | 21425   | 23.51                 | 24.5                                | 0                        |     |
|            |            |         | 24        | 2502.5          | 20775   | 23.09                 | 24.5                                | 0                        |     |
|            |            |         |           | 2535            | 21100   | 23.24                 | 24.5                                | 0                        |     |
|            |            |         |           | 2567.5          | 21425   | 23.24                 | 24.5                                | 0                        |     |
|            |            | 12 RB   | 0         | 2502.5          | 20775   | 22.32                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.21                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2567.5          | 21425   | 22.39                 | 23.5                                | 0-1                      |     |
|            |            |         | 6         | 2502.5          | 20775   | 22.28                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.22                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2567.5          | 21425   | 22.41                 | 23.5                                | 0-1                      |     |
|            |            |         | 13        | 2502.5          | 20775   | 22.19                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.37                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2567.5          | 21425   | 22.43                 | 23.5                                | 0-1                      |     |
|            |            | 25RB    |           |                 | 2502.5  | 20775                 | 22.33                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 2535    | 21100                 | 22.26                               | 23.5                     | 0-1 |
|            |            |         |           |                 | 2567.5  | 21425                 | 22.36                               | 23.5                     | 0-1 |
|            | 16-QAM     | 1 RB    | 0         | 2502.5          | 20775   | 22.57                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.63                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2567.5          | 21425   | 22.37                 | 23.5                                | 0-1                      |     |
|            |            |         | 12        | 2502.5          | 20775   | 22.05                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.48                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2567.5          | 21425   | 22.36                 | 23.5                                | 0-1                      |     |
|            |            |         | 24        | 2502.5          | 20775   | 22.16                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2535            | 21100   | 22.43                 | 23.5                                | 0-1                      |     |
|            |            |         |           | 2567.5          | 21425   | 22.31                 | 23.5                                | 0-1                      |     |
|            |            | 12 RB   | 0         | 2502.5          | 20775   | 21.38                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2535            | 21100   | 21.19                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2567.5          | 21425   | 21.40                 | 22.5                                | 0-2                      |     |
|            |            |         | 6         | 2502.5          | 20775   | 21.37                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2535            | 21100   | 21.30                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2567.5          | 21425   | 21.46                 | 22.5                                | 0-2                      |     |
|            |            |         | 13        | 2502.5          | 20775   | 21.24                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2535            | 21100   | 21.36                 | 22.5                                | 0-2                      |     |
|            |            |         |           | 2567.5          | 21425   | 21.55                 | 22.5                                | 0-2                      |     |
|            |            | 25RB    |           |                 | 2502.5  | 20775                 | 21.28                               | 22.5                     | 0-2 |
|            |            |         |           |                 | 2535    | 21100                 | 21.29                               | 22.5                     | 0-2 |
|            |            |         |           |                 | 2567.5  | 21425                 | 21.57                               | 22.5                     | 0-2 |

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|------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5          | 64-QAM     | 1 RB    | 0         | 2502.5          | 20775   | 22.64                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.30                 | 23.5                                | 0-1                      |
|            |            |         |           | 2567.5          | 21425   | 22.68                 | 23.5                                | 0-1                      |
|            |            |         | 12        | 2502.5          | 20775   | 22.38                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.74                 | 23.5                                | 0-1                      |
|            |            |         |           | 2567.5          | 21425   | 22.72                 | 23.5                                | 0-1                      |
|            |            |         | 24        | 2502.5          | 20775   | 22.59                 | 23.5                                | 0-1                      |
|            |            |         |           | 2535            | 21100   | 22.72                 | 23.5                                | 0-1                      |
|            |            |         |           | 2567.5          | 21425   | 22.92                 | 23.5                                | 0-1                      |
|            |            | 12 RB   | 0         | 2502.5          | 20775   | 21.38                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.35                 | 22.5                                | 0-2                      |
|            |            |         |           | 2567.5          | 21425   | 21.41                 | 22.5                                | 0-2                      |
|            |            |         | 6         | 2502.5          | 20775   | 21.15                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.63                 | 22.5                                | 0-2                      |
|            |            |         |           | 2567.5          | 21425   | 21.39                 | 22.5                                | 0-2                      |
|            |            |         | 13        | 2502.5          | 20775   | 21.23                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.52                 | 22.5                                | 0-2                      |
|            |            |         |           | 2567.5          | 21425   | 21.59                 | 22.5                                | 0-2                      |
|            |            | 25RB    |           | 2502.5          | 20775   | 21.25                 | 22.5                                | 0-2                      |
|            |            |         |           | 2535            | 21100   | 21.57                 | 22.5                                | 0-2                      |
|            |            |         |           | 2567.5          | 21425   | 21.52                 | 22.5                                | 0-2                      |

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| FDD Band 12 |            |         |           |                 |         |                       |                                     |                          |
|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10          | QPSK       | 1 RB    | 0         | 704             | 23060   | 23.49                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.05                 | 23.5                                | 0                        |
|             |            |         |           | 711             | 23130   | 23.01                 | 23.5                                | 0                        |
|             |            |         | 25        | 704             | 23060   | 23.45                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.34                 | 23.5                                | 0                        |
|             |            |         |           | 711             | 23130   | 23.24                 | 23.5                                | 0                        |
|             |            |         | 49        | 704             | 23060   | 23.23                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.26                 | 23.5                                | 0                        |
|             |            |         |           | 711             | 23130   | 23.20                 | 23.5                                | 0                        |
|             |            | 25 RB   | 0         | 704             | 23060   | 22.14                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.12                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 22.25                 | 22.5                                | 0-1                      |
|             |            |         | 12        | 704             | 23060   | 22.11                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.31                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 22.29                 | 22.5                                | 0-1                      |
|             |            |         | 25        | 704             | 23060   | 22.29                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.17                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 22.19                 | 22.5                                | 0-1                      |
|             |            | 50RB    | 704       | 23060           | 22.24   | 22.5                  | 0-1                                 |                          |
|             |            |         | 707.5     | 23095           | 22.14   | 22.5                  | 0-1                                 |                          |
|             |            |         | 711       | 23130           | 22.17   | 22.5                  | 0-1                                 |                          |
|             | 16-QAM     | 1 RB    | 0         | 704             | 23060   | 21.91                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.08                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 22.33                 | 22.5                                | 0-1                      |
|             |            |         | 25        | 704             | 23060   | 22.48                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.10                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 21.79                 | 22.5                                | 0-1                      |
|             |            |         | 49        | 704             | 23060   | 22.00                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.95                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 21.70                 | 22.5                                | 0-1                      |
|             |            | 25 RB   | 0         | 704             | 23060   | 21.35                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.38                 | 21.5                                | 0-2                      |
|             |            |         |           | 711             | 23130   | 21.49                 | 21.5                                | 0-2                      |
|             |            |         | 12        | 704             | 23060   | 21.24                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.41                 | 21.5                                | 0-2                      |
|             |            |         |           | 711             | 23130   | 21.48                 | 21.5                                | 0-2                      |
|             |            |         | 25        | 704             | 23060   | 21.45                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.48                 | 21.5                                | 0-2                      |
|             |            |         |           | 711             | 23130   | 21.34                 | 21.5                                | 0-2                      |
|             |            | 50RB    | 704       | 23060           | 21.06   | 21.5                  | 0-2                                 |                          |
|             |            |         | 707.5     | 23095           | 21.34   | 21.5                  | 0-2                                 |                          |
|             |            |         | 711       | 23130           | 21.36   | 21.5                  | 0-2                                 |                          |

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| FDD Band 12 |            |         |           |                 |         |                       |                                     |                          |
|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10          | 64-QAM     | 1 RB    | 0         | 704             | 23060   | 21.87                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.08                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 22.24                 | 22.5                                | 0-1                      |
|             |            |         | 25        | 704             | 23060   | 22.46                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.10                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 21.72                 | 22.5                                | 0-1                      |
|             |            |         | 49        | 704             | 23060   | 21.97                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.87                 | 22.5                                | 0-1                      |
|             |            |         |           | 711             | 23130   | 21.65                 | 22.5                                | 0-1                      |
|             |            | 25 RB   | 0         | 704             | 23060   | 21.31                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.37                 | 21.5                                | 0-2                      |
|             |            |         |           | 711             | 23130   | 21.42                 | 21.5                                | 0-2                      |
|             |            |         | 12        | 704             | 23060   | 21.18                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.34                 | 21.5                                | 0-2                      |
|             |            |         |           | 711             | 23130   | 21.42                 | 21.5                                | 0-2                      |
|             |            |         | 25        | 704             | 23060   | 21.41                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.43                 | 21.5                                | 0-2                      |
|             |            |         |           | 711             | 23130   | 21.34                 | 21.5                                | 0-2                      |
|             |            | 50RB    |           | 704             | 23060   | 21.05                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.22                 | 21.5                                | 0-2                      |
|             |            |         |           | 711             | 23130   | 21.34                 | 21.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 5           | QPSK       | 1 RB    | 0         | 701.5           | 23035   | 23.42                 | 23.5                                | 0                        |     |
|             |            |         |           | 707.5           | 23095   | 23.04                 | 23.5                                | 0                        |     |
|             |            |         |           | 713.5           | 23155   | 22.91                 | 23.5                                | 0                        |     |
|             |            |         | 12        | 701.5           | 23035   | 23.42                 | 23.5                                | 0                        |     |
|             |            |         |           | 707.5           | 23095   | 23.21                 | 23.5                                | 0                        |     |
|             |            |         |           | 713.5           | 23155   | 23.14                 | 23.5                                | 0                        |     |
|             |            |         | 24        | 701.5           | 23035   | 23.14                 | 23.5                                | 0                        |     |
|             |            |         |           | 707.5           | 23095   | 23.23                 | 23.5                                | 0                        |     |
|             |            |         |           | 713.5           | 23155   | 23.09                 | 23.5                                | 0                        |     |
|             |            | 12 RB   | 0         | 701.5           | 23035   | 22.11                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 707.5           | 23095   | 22.01                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 713.5           | 23155   | 22.19                 | 22.5                                | 0-1                      |     |
|             |            |         | 6         | 701.5           | 23035   | 22.05                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 707.5           | 23095   | 22.28                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 713.5           | 23155   | 22.16                 | 22.5                                | 0-1                      |     |
|             |            |         | 13        | 701.5           | 23035   | 22.27                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 707.5           | 23095   | 22.15                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 713.5           | 23155   | 22.09                 | 22.5                                | 0-1                      |     |
|             |            | 25RB    |           |                 | 701.5   | 23035                 | 22.11                               | 22.5                     | 0-1 |
|             |            |         |           |                 | 707.5   | 23095                 | 22.11                               | 22.5                     | 0-1 |
|             |            |         |           |                 | 713.5   | 23155                 | 22.14                               | 22.5                     | 0-1 |
|             | 16-QAM     | 1 RB    | 0         | 701.5           | 23035   | 21.85                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 707.5           | 23095   | 21.96                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 713.5           | 23155   | 22.31                 | 22.5                                | 0-1                      |     |
|             |            |         | 12        | 701.5           | 23035   | 22.47                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 707.5           | 23095   | 22.02                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 713.5           | 23155   | 21.72                 | 22.5                                | 0-1                      |     |
|             |            |         | 24        | 701.5           | 23035   | 21.91                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 707.5           | 23095   | 21.88                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 713.5           | 23155   | 21.59                 | 22.5                                | 0-1                      |     |
|             |            | 12 RB   | 0         | 701.5           | 23035   | 21.30                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 707.5           | 23095   | 21.32                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 713.5           | 23155   | 21.35                 | 21.5                                | 0-2                      |     |
|             |            |         | 6         | 701.5           | 23035   | 21.16                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 707.5           | 23095   | 21.35                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 713.5           | 23155   | 21.39                 | 21.5                                | 0-2                      |     |
|             |            |         | 13        | 701.5           | 23035   | 21.36                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 707.5           | 23095   | 21.45                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 713.5           | 23155   | 21.29                 | 21.5                                | 0-2                      |     |
|             |            | 25RB    |           |                 | 701.5   | 23035                 | 21.03                               | 21.5                     | 0-2 |
|             |            |         |           |                 | 707.5   | 23095                 | 21.22                               | 21.5                     | 0-2 |
|             |            |         |           |                 | 713.5   | 23155                 | 21.36                               | 21.5                     | 0-2 |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5           | 64-QAM     | 1 RB    | 0         | 701.5           | 23035   | 21.83                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.94                 | 22.5                                | 0-1                      |
|             |            |         |           | 713.5           | 23155   | 22.16                 | 22.5                                | 0-1                      |
|             |            |         | 12        | 701.5           | 23035   | 22.41                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.09                 | 22.5                                | 0-1                      |
|             |            |         |           | 713.5           | 23155   | 21.65                 | 22.5                                | 0-1                      |
|             |            |         | 24        | 701.5           | 23035   | 21.92                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.83                 | 22.5                                | 0-1                      |
|             |            |         |           | 713.5           | 23155   | 21.60                 | 22.5                                | 0-1                      |
|             |            | 12 RB   | 0         | 701.5           | 23035   | 21.24                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.33                 | 21.5                                | 0-2                      |
|             |            |         |           | 713.5           | 23155   | 21.37                 | 21.5                                | 0-2                      |
|             |            |         | 6         | 701.5           | 23035   | 21.04                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.29                 | 21.5                                | 0-2                      |
|             |            |         |           | 713.5           | 23155   | 21.38                 | 21.5                                | 0-2                      |
|             |            |         | 13        | 701.5           | 23035   | 21.38                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.38                 | 21.5                                | 0-2                      |
|             |            |         |           | 713.5           | 23155   | 21.20                 | 21.5                                | 0-2                      |
|             |            | 25RB    |           | 701.5           | 23035   | 21.00                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.18                 | 21.5                                | 0-2                      |
|             |            |         |           | 713.5           | 23155   | 21.33                 | 21.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3           | QPSK       | 1 RB    | 0         | 700.5           | 23025   | 23.41                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.01                 | 23.5                                | 0                        |
|             |            |         |           | 714.5           | 23165   | 22.88                 | 23.5                                | 0                        |
|             |            |         | 7         | 700.5           | 23025   | 23.43                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.30                 | 23.5                                | 0                        |
|             |            |         |           | 714.5           | 23165   | 23.10                 | 23.5                                | 0                        |
|             |            |         | 14        | 700.5           | 23025   | 23.17                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.19                 | 23.5                                | 0                        |
|             |            |         |           | 714.5           | 23165   | 23.10                 | 23.5                                | 0                        |
|             |            | 8 RB    | 0         | 700.5           | 23025   | 22.01                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.00                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 22.23                 | 22.5                                | 0-1                      |
|             |            |         | 4         | 700.5           | 23025   | 22.00                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.28                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 22.18                 | 22.5                                | 0-1                      |
|             |            |         | 7         | 700.5           | 23025   | 22.16                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.06                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 22.12                 | 22.5                                | 0-1                      |
|             |            | 15RB    |           | 700.5           | 23025   | 22.10                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.13                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 22.10                 | 22.5                                | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 700.5           | 23025   | 21.86                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.04                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 22.25                 | 22.5                                | 0-1                      |
|             |            |         | 7         | 700.5           | 23025   | 22.42                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.07                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 21.72                 | 22.5                                | 0-1                      |
|             |            |         | 14        | 700.5           | 23025   | 21.93                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.92                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 21.64                 | 22.5                                | 0-1                      |
|             |            | 8 RB    | 0         | 700.5           | 23025   | 21.25                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.29                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.38                 | 21.5                                | 0-2                      |
|             |            |         | 4         | 700.5           | 23025   | 21.13                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.30                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.47                 | 21.5                                | 0-2                      |
|             |            |         | 7         | 700.5           | 23025   | 21.33                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.35                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.30                 | 21.5                                | 0-2                      |
|             |            | 15RB    |           | 700.5           | 23025   | 20.93                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.22                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.29                 | 21.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3           | 64-QAM     | 1 RB    | 0         | 700.5           | 23025   | 21.74                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.05                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 22.17                 | 22.5                                | 0-1                      |
|             |            |         | 7         | 700.5           | 23025   | 22.45                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.07                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 21.60                 | 22.5                                | 0-1                      |
|             |            |         | 14        | 700.5           | 23025   | 21.83                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.79                 | 22.5                                | 0-1                      |
|             |            |         |           | 714.5           | 23165   | 21.64                 | 22.5                                | 0-1                      |
|             |            | 8 RB    | 0         | 700.5           | 23025   | 21.18                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.31                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.37                 | 21.5                                | 0-2                      |
|             |            |         | 4         | 700.5           | 23025   | 21.09                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.33                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.35                 | 21.5                                | 0-2                      |
|             |            |         | 7         | 700.5           | 23025   | 21.30                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.38                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.33                 | 21.5                                | 0-2                      |
|             |            | 15RB    |           | 700.5           | 23025   | 20.97                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.14                 | 21.5                                | 0-2                      |
|             |            |         |           | 714.5           | 23165   | 21.31                 | 21.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4         | QPSK       | 1 RB    | 0         | 699.7           | 23017   | 23.29                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 22.93                 | 23.5                                | 0                        |
|             |            |         |           | 715.3           | 23173   | 22.80                 | 23.5                                | 0                        |
|             |            |         | 2         | 699.7           | 23017   | 23.37                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.28                 | 23.5                                | 0                        |
|             |            |         |           | 715.3           | 23173   | 23.05                 | 23.5                                | 0                        |
|             |            |         | 5         | 699.7           | 23017   | 23.04                 | 23.5                                | 0                        |
|             |            |         |           | 707.5           | 23095   | 23.07                 | 23.5                                | 0                        |
|             |            |         |           | 715.3           | 23173   | 23.05                 | 23.5                                | 0                        |
|             |            | 3 RB    | 0         | 699.7           | 23017   | 21.99                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.88                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 22.20                 | 22.5                                | 0-1                      |
|             |            |         | 2         | 699.7           | 23017   | 21.96                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.21                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 22.07                 | 22.5                                | 0-1                      |
|             |            |         | 3         | 699.7           | 23017   | 22.11                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.96                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 21.99                 | 22.5                                | 0-1                      |
|             |            | 6RB     |           | 699.7           | 23017   | 22.07                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.03                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 22.00                 | 22.5                                | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 699.7           | 23017   | 21.81                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.93                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 22.24                 | 22.5                                | 0-1                      |
|             |            |         | 2         | 699.7           | 23017   | 22.38                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.06                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 21.59                 | 22.5                                | 0-1                      |
|             |            |         | 5         | 699.7           | 23017   | 21.92                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.86                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 21.52                 | 22.5                                | 0-1                      |
|             |            | 3 RB    | 0         | 699.7           | 23017   | 21.13                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.19                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.28                 | 21.5                                | 0-2                      |
|             |            |         | 2         | 699.7           | 23017   | 21.01                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.19                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.37                 | 21.5                                | 0-2                      |
|             |            |         | 3         | 699.7           | 23017   | 21.24                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.25                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.16                 | 21.5                                | 0-2                      |
|             |            | 6RB     |           | 699.7           | 23017   | 20.88                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.21                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.18                 | 21.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4         | 64-QAM     | 1 RB    | 0         | 699.7           | 23017   | 21.71                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.94                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 22.12                 | 22.5                                | 0-1                      |
|             |            |         | 2         | 699.7           | 23017   | 22.33                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 22.03                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 21.59                 | 22.5                                | 0-1                      |
|             |            |         | 5         | 699.7           | 23017   | 21.78                 | 22.5                                | 0-1                      |
|             |            |         |           | 707.5           | 23095   | 21.68                 | 22.5                                | 0-1                      |
|             |            |         |           | 715.3           | 23173   | 21.63                 | 22.5                                | 0-1                      |
|             |            | 3 RB    | 0         | 699.7           | 23017   | 21.11                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.26                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.36                 | 21.5                                | 0-2                      |
|             |            |         | 2         | 699.7           | 23017   | 21.06                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.20                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.24                 | 21.5                                | 0-2                      |
|             |            |         | 3         | 699.7           | 23017   | 21.21                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.28                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.23                 | 21.5                                | 0-2                      |
|             |            | 6RB     |           | 699.7           | 23017   | 20.95                 | 21.5                                | 0-2                      |
|             |            |         |           | 707.5           | 23095   | 21.01                 | 21.5                                | 0-2                      |
|             |            |         |           | 715.3           | 23173   | 21.30                 | 21.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10          | QPSK       | 1 RB    | 0         | 782             | 23230   | 23.45                 | 23.5                                | 0                        |
|             |            |         | 25        | 782             | 23230   | 23.24                 | 23.5                                | 0                        |
|             |            |         | 49        | 782             | 23230   | 23.34                 | 23.5                                | 0                        |
|             |            | 25 RB   | 0         | 782             | 23230   | 22.40                 | 22.5                                | 0-1                      |
|             |            |         | 12        | 782             | 23230   | 22.32                 | 22.5                                | 0-1                      |
|             |            |         | 25        | 782             | 23230   | 22.28                 | 22.5                                | 0-1                      |
|             |            | 50RB    |           | 782             | 23230   | 22.35                 | 22.5                                | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 782             | 23230   | 22.49                 | 22.5                                | 0-1                      |
|             |            |         | 25        | 782             | 23230   | 22.44                 | 22.5                                | 0-1                      |
|             |            |         | 49        | 782             | 23230   | 22.41                 | 22.5                                | 0-1                      |
|             |            | 25 RB   | 0         | 782             | 23230   | 21.25                 | 21.5                                | 0-2                      |
|             |            |         | 12        | 782             | 23230   | 21.50                 | 21.5                                | 0-2                      |
|             |            |         | 25        | 782             | 23230   | 21.44                 | 21.5                                | 0-2                      |
|             |            | 50RB    |           | 782             | 23230   | 21.32                 | 21.5                                | 0-2                      |
|             | 64-QAM     | 1 RB    | 0         | 782             | 23230   | 22.46                 | 22.5                                | 0-1                      |
|             |            |         | 25        | 782             | 23230   | 22.41                 | 22.5                                | 0-1                      |
|             |            |         | 49        | 782             | 23230   | 22.37                 | 22.5                                | 0-1                      |
|             |            | 25 RB   | 0         | 782             | 23230   | 21.20                 | 21.5                                | 0-2                      |
|             |            |         | 12        | 782             | 23230   | 21.48                 | 21.5                                | 0-2                      |
|             |            |         | 25        | 782             | 23230   | 21.37                 | 21.5                                | 0-2                      |
|             |            | 50RB    |           | 782             | 23230   | 21.31                 | 21.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 5           | QPSK       | 1 RB    | 0         | 779.5           | 23205   | 23.39                 | 23.5                                | 0                        |     |
|             |            |         |           | 782             | 23230   | 23.42                 | 23.5                                | 0                        |     |
|             |            |         |           | 784.5           | 23255   | 23.39                 | 23.5                                | 0                        |     |
|             |            |         | 12        | 779.5           | 23205   | 23.43                 | 23.5                                | 0                        |     |
|             |            |         |           | 782             | 23230   | 23.40                 | 23.5                                | 0                        |     |
|             |            |         |           | 784.5           | 23255   | 23.41                 | 23.5                                | 0                        |     |
|             |            |         | 24        | 779.5           | 23205   | 23.35                 | 23.5                                | 0                        |     |
|             |            |         |           | 782             | 23230   | 23.22                 | 23.5                                | 0                        |     |
|             |            |         |           | 784.5           | 23255   | 23.37                 | 23.5                                | 0                        |     |
|             |            | 12 RB   | 0         | 779.5           | 23205   | 22.34                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 782             | 23230   | 22.29                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 784.5           | 23255   | 22.28                 | 22.5                                | 0-1                      |     |
|             |            |         | 6         | 779.5           | 23205   | 22.32                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 782             | 23230   | 22.22                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 784.5           | 23255   | 22.31                 | 22.5                                | 0-1                      |     |
|             |            |         | 13        | 779.5           | 23205   | 22.20                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 782             | 23230   | 22.20                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 784.5           | 23255   | 22.38                 | 22.5                                | 0-1                      |     |
|             |            | 25RB    |           |                 | 779.5   | 23205                 | 22.32                               | 22.5                     | 0-1 |
|             |            |         |           |                 | 782     | 23230                 | 22.27                               | 22.5                     | 0-1 |
|             |            |         |           |                 | 784.5   | 23255                 | 22.26                               | 22.5                     | 0-1 |
|             | 16-QAM     | 1 RB    | 0         | 779.5           | 23205   | 22.20                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 782             | 23230   | 22.48                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 784.5           | 23255   | 22.28                 | 22.5                                | 0-1                      |     |
|             |            |         | 12        | 779.5           | 23205   | 21.73                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 782             | 23230   | 22.25                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 784.5           | 23255   | 22.44                 | 22.5                                | 0-1                      |     |
|             |            |         | 24        | 779.5           | 23205   | 22.30                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 782             | 23230   | 21.91                 | 22.5                                | 0-1                      |     |
|             |            |         |           | 784.5           | 23255   | 22.47                 | 22.5                                | 0-1                      |     |
|             |            | 12 RB   | 0         | 779.5           | 23205   | 21.28                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 782             | 23230   | 21.29                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 784.5           | 23255   | 21.27                 | 21.5                                | 0-2                      |     |
|             |            |         | 6         | 779.5           | 23205   | 21.26                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 782             | 23230   | 21.25                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 784.5           | 23255   | 21.16                 | 21.5                                | 0-2                      |     |
|             |            |         | 13        | 779.5           | 23205   | 21.21                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 782             | 23230   | 21.06                 | 21.5                                | 0-2                      |     |
|             |            |         |           | 784.5           | 23255   | 21.23                 | 21.5                                | 0-2                      |     |
|             |            | 25RB    |           |                 | 779.5   | 23205                 | 21.46                               | 21.5                     | 0-2 |
|             |            |         |           |                 | 782     | 23230                 | 21.48                               | 21.5                     | 0-2 |
|             |            |         |           |                 | 784.5   | 23255                 | 21.28                               | 21.5                     | 0-2 |

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| FDD Band 13 |            |         |           |                 |         |                       |                                     |                          |
|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5           | 64-QAM     | 1 RB    | 0         | 779.5           | 23205   | 22.15                 | 22.5                                | 0-1                      |
|             |            |         |           | 782             | 23230   | 22.47                 | 22.5                                | 0-1                      |
|             |            |         |           | 784.5           | 23255   | 22.23                 | 22.5                                | 0-1                      |
|             |            |         | 12        | 779.5           | 23205   | 21.67                 | 22.5                                | 0-1                      |
|             |            |         |           | 782             | 23230   | 22.19                 | 22.5                                | 0-1                      |
|             |            |         |           | 784.5           | 23255   | 22.40                 | 22.5                                | 0-1                      |
|             |            |         | 24        | 779.5           | 23205   | 22.26                 | 22.5                                | 0-1                      |
|             |            |         |           | 782             | 23230   | 21.80                 | 22.5                                | 0-1                      |
|             |            |         |           | 784.5           | 23255   | 22.42                 | 22.5                                | 0-1                      |
|             |            | 12 RB   | 0         | 779.5           | 23205   | 21.16                 | 21.5                                | 0-2                      |
|             |            |         |           | 782             | 23230   | 21.16                 | 21.5                                | 0-2                      |
|             |            |         |           | 784.5           | 23255   | 21.21                 | 21.5                                | 0-2                      |
|             |            |         | 6         | 779.5           | 23205   | 21.20                 | 21.5                                | 0-2                      |
|             |            |         |           | 782             | 23230   | 21.15                 | 21.5                                | 0-2                      |
|             |            |         |           | 784.5           | 23255   | 21.05                 | 21.5                                | 0-2                      |
|             |            |         | 13        | 779.5           | 23205   | 21.11                 | 21.5                                | 0-2                      |
|             |            |         |           | 782             | 23230   | 20.99                 | 21.5                                | 0-2                      |
|             |            |         |           | 784.5           | 23255   | 21.12                 | 21.5                                | 0-2                      |
|             |            | 25RB    |           | 779.5           | 23205   | 21.36                 | 21.5                                | 0-2                      |
|             |            |         |           | 782             | 23230   | 21.41                 | 21.5                                | 0-2                      |
|             |            |         |           | 784.5           | 23255   | 21.26                 | 21.5                                | 0-2                      |

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| FDD Band 25 |            |         |           |                 |         |                       |                                     |                          |
|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20          | QPSK       | 1 RB    | 0         | 1860            | 26140   | 20.26                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.31                 | 20.5                                | 0                        |
|             |            |         |           | 1905            | 26590   | 20.29                 | 20.5                                | 0                        |
|             |            |         | 50        | 1860            | 26140   | 20.14                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.13                 | 20.5                                | 0                        |
|             |            |         |           | 1905            | 26590   | 20.34                 | 20.5                                | 0                        |
|             |            |         | 99        | 1860            | 26140   | 20.22                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.05                 | 20.5                                | 0                        |
|             |            |         |           | 1905            | 26590   | 20.46                 | 20.5                                | 0                        |
|             |            | 50 RB   | 0         | 1860            | 26140   | 19.26                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.14                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.29                 | 19.5                                | 0-1                      |
|             |            |         | 25        | 1860            | 26140   | 19.19                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.16                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.27                 | 19.5                                | 0-1                      |
|             |            |         | 50        | 1860            | 26140   | 19.32                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.11                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.26                 | 19.5                                | 0-1                      |
|             |            | 100RB   |           | 1860            | 26140   | 19.33                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.19                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.30                 | 19.5                                | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 1860            | 26140   | 19.49                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.43                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         | 50        | 1860            | 26140   | 19.38                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.48                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.38                 | 19.5                                | 0-1                      |
|             |            |         | 99        | 1860            | 26140   | 19.49                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.41                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.28                 | 19.5                                | 0-1                      |
|             |            | 50 RB   | 0         | 1860            | 26140   | 18.30                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.21                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.26                 | 18.5                                | 0-2                      |
|             |            |         | 25        | 1860            | 26140   | 18.36                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.21                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.28                 | 18.5                                | 0-2                      |
|             |            |         | 50        | 1860            | 26140   | 18.36                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.25                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.25                 | 18.5                                | 0-2                      |
|             |            | 100RB   |           | 1860            | 26140   | 18.42                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.25                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.37                 | 18.5                                | 0-2                      |

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| FDD Band 25 |            |         |           |                 |         |                       |                                     |                          |
|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20          | 64-QAM     | 1 RB    | 0         | 1860            | 26140   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.40                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.34                 | 19.5                                | 0-1                      |
|             |            |         | 50        | 1860            | 26140   | 19.34                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.38                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.29                 | 19.5                                | 0-1                      |
|             |            |         | 99        | 1860            | 26140   | 19.47                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.37                 | 19.5                                | 0-1                      |
|             |            |         |           | 1905            | 26590   | 19.28                 | 19.5                                | 0-1                      |
|             |            | 50 RB   | 0         | 1860            | 26140   | 18.27                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.17                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.17                 | 18.5                                | 0-2                      |
|             |            |         | 25        | 1860            | 26140   | 18.27                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.18                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.18                 | 18.5                                | 0-2                      |
|             |            |         | 50        | 1860            | 26140   | 18.30                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.13                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.16                 | 18.5                                | 0-2                      |
|             |            | 100RB   |           | 1860            | 26140   | 18.28                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.14                 | 18.5                                | 0-2                      |
|             |            |         |           | 1905            | 26590   | 18.34                 | 18.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15          | QPSK       | 1 RB    | 0         | 1857.5          | 26115   | 20.43                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.31                 | 20.5                                | 0                        |
|             |            |         |           | 1907.5          | 26615   | 20.33                 | 20.5                                | 0                        |
|             |            |         | 36        | 1857.5          | 26115   | 20.33                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.05                 | 20.5                                | 0                        |
|             |            |         |           | 1907.5          | 26615   | 20.14                 | 20.5                                | 0                        |
|             |            |         | 74        | 1857.5          | 26115   | 20.41                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.02                 | 20.5                                | 0                        |
|             |            |         |           | 1907.5          | 26615   | 20.39                 | 20.5                                | 0                        |
|             |            | 36 RB   | 0         | 1857.5          | 26115   | 19.22                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.17                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.24                 | 19.5                                | 0-1                      |
|             |            |         | 18        | 1857.5          | 26115   | 19.20                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.14                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.25                 | 19.5                                | 0-1                      |
|             |            |         | 37        | 1857.5          | 26115   | 19.28                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.15                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.37                 | 19.5                                | 0-1                      |
|             |            | 75RB    |           | 1857.5          | 26115   | 19.27                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.13                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.28                 | 19.5                                | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 1857.5          | 26115   | 19.36                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.46                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.36                 | 19.5                                | 0-1                      |
|             |            |         | 36        | 1857.5          | 26115   | 19.47                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.39                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.41                 | 19.5                                | 0-1                      |
|             |            |         | 74        | 1857.5          | 26115   | 19.49                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.44                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.39                 | 19.5                                | 0-1                      |
|             |            | 36 RB   | 0         | 1857.5          | 26115   | 18.36                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.21                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.38                 | 18.5                                | 0-2                      |
|             |            |         | 18        | 1857.5          | 26115   | 18.31                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.18                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.30                 | 18.5                                | 0-2                      |
|             |            |         | 37        | 1857.5          | 26115   | 18.27                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.19                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.29                 | 18.5                                | 0-2                      |
|             |            | 75RB    |           | 1857.5          | 26115   | 18.34                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.29                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.20                 | 18.5                                | 0-2                      |

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| FDD Band 25 |            |         |           |                 |         |                       |                                     |                          |
|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15          | 64-QAM     | 1 RB    | 0         | 1857.5          | 26115   | 19.26                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.40                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.25                 | 19.5                                | 0-1                      |
|             |            |         | 36        | 1857.5          | 26115   | 19.33                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.36                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.37                 | 19.5                                | 0-1                      |
|             |            |         | 74        | 1857.5          | 26115   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.40                 | 19.5                                | 0-1                      |
|             |            |         |           | 1907.5          | 26615   | 19.27                 | 19.5                                | 0-1                      |
|             |            | 36 RB   | 0         | 1857.5          | 26115   | 18.32                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.15                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.25                 | 18.5                                | 0-2                      |
|             |            |         | 18        | 1857.5          | 26115   | 18.20                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.10                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.21                 | 18.5                                | 0-2                      |
|             |            |         | 37        | 1857.5          | 26115   | 18.20                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.11                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.21                 | 18.5                                | 0-2                      |
|             |            | 75RB    |           | 1857.5          | 26115   | 18.31                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.24                 | 18.5                                | 0-2                      |
|             |            |         |           | 1907.5          | 26615   | 18.10                 | 18.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10          | QPSK       | 1 RB    | 0         | 1855            | 26090   | 20.45                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.27                 | 20.5                                | 0                        |
|             |            |         |           | 1910            | 26640   | 20.25                 | 20.5                                | 0                        |
|             |            |         | 25        | 1855            | 26090   | 20.39                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.38                 | 20.5                                | 0                        |
|             |            |         |           | 1910            | 26640   | 20.30                 | 20.5                                | 0                        |
|             |            |         | 49        | 1855            | 26090   | 20.41                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.36                 | 20.5                                | 0                        |
|             |            |         |           | 1910            | 26640   | 20.16                 | 20.5                                | 0                        |
|             |            | 25 RB   | 0         | 1855            | 26090   | 19.29                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.19                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.30                 | 19.5                                | 0-1                      |
|             |            |         | 12        | 1855            | 26090   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.17                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.35                 | 19.5                                | 0-1                      |
|             |            |         | 25        | 1855            | 26090   | 19.15                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.17                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.37                 | 19.5                                | 0-1                      |
|             |            | 50RB    |           | 1855            | 26090   | 19.27                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.13                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.32                 | 19.5                                | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 1855            | 26090   | 19.44                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.17                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         | 25        | 1855            | 26090   | 19.49                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.24                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.41                 | 19.5                                | 0-1                      |
|             |            |         | 49        | 1855            | 26090   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.44                 | 19.5                                | 0-1                      |
|             |            | 25 RB   | 0         | 1855            | 26090   | 18.20                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.09                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.40                 | 18.5                                | 0-2                      |
|             |            |         | 12        | 1855            | 26090   | 18.28                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.07                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.44                 | 18.5                                | 0-2                      |
|             |            |         | 25        | 1855            | 26090   | 18.16                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.12                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.17                 | 18.5                                | 0-2                      |
|             |            | 50RB    |           | 1855            | 26090   | 18.33                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.13                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.46                 | 18.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10          | 64-QAM     | 1 RB    | 0         | 1855            | 26090   | 19.30                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.34                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.26                 | 19.5                                | 0-1                      |
|             |            |         | 25        | 1855            | 26090   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.28                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.39                 | 19.5                                | 0-1                      |
|             |            |         | 49        | 1855            | 26090   | 19.46                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.38                 | 19.5                                | 0-1                      |
|             |            |         |           | 1910            | 26640   | 19.29                 | 19.5                                | 0-1                      |
|             |            | 25 RB   | 0         | 1855            | 26090   | 18.28                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.16                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.37                 | 18.5                                | 0-2                      |
|             |            |         | 12        | 1855            | 26090   | 18.21                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.12                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.17                 | 18.5                                | 0-2                      |
|             |            |         | 25        | 1855            | 26090   | 18.13                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.14                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.25                 | 18.5                                | 0-2                      |
|             |            | 50RB    |           | 1855            | 26090   | 18.29                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.19                 | 18.5                                | 0-2                      |
|             |            |         |           | 1910            | 26640   | 18.18                 | 18.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 5           | QPSK       | 1 RB    | 0         | 1852.5          | 26065   | 20.15                 | 20.5                                | 0                        |     |
|             |            |         |           | 1882.5          | 26365   | 20.20                 | 20.5                                | 0                        |     |
|             |            |         |           | 1912.5          | 26665   | 20.30                 | 20.5                                | 0                        |     |
|             |            |         | 12        | 1852.5          | 26065   | 20.40                 | 20.5                                | 0                        |     |
|             |            |         |           | 1882.5          | 26365   | 20.13                 | 20.5                                | 0                        |     |
|             |            |         |           | 1912.5          | 26665   | 20.45                 | 20.5                                | 0                        |     |
|             |            |         | 24        | 1852.5          | 26065   | 20.24                 | 20.5                                | 0                        |     |
|             |            |         |           | 1882.5          | 26365   | 20.17                 | 20.5                                | 0                        |     |
|             |            |         |           | 1912.5          | 26665   | 20.42                 | 20.5                                | 0                        |     |
|             |            | 12 RB   | 0         | 1852.5          | 26065   | 19.24                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.13                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1912.5          | 26665   | 19.24                 | 19.5                                | 0-1                      |     |
|             |            |         | 6         | 1852.5          | 26065   | 19.20                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.08                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1912.5          | 26665   | 19.29                 | 19.5                                | 0-1                      |     |
|             |            |         | 13        | 1852.5          | 26065   | 19.18                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.19                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1912.5          | 26665   | 19.36                 | 19.5                                | 0-1                      |     |
|             |            | 25RB    |           |                 | 1852.5  | 26065                 | 19.23                               | 19.5                     | 0-1 |
|             |            |         |           |                 | 1882.5  | 26365                 | 19.09                               | 19.5                     | 0-1 |
|             |            |         |           |                 | 1912.5  | 26665                 | 19.30                               | 19.5                     | 0-1 |
|             | 16-QAM     | 1 RB    | 0         | 1852.5          | 26065   | 19.35                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.31                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1912.5          | 26665   | 19.47                 | 19.5                                | 0-1                      |     |
|             |            |         | 12        | 1852.5          | 26065   | 19.42                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.07                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1912.5          | 26665   | 19.46                 | 19.5                                | 0-1                      |     |
|             |            |         | 24        | 1852.5          | 26065   | 19.44                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.38                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1912.5          | 26665   | 19.47                 | 19.5                                | 0-1                      |     |
|             |            | 12 RB   | 0         | 1852.5          | 26065   | 18.16                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1882.5          | 26365   | 18.08                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1912.5          | 26665   | 18.40                 | 18.5                                | 0-2                      |     |
|             |            |         | 6         | 1852.5          | 26065   | 18.28                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1882.5          | 26365   | 17.97                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1912.5          | 26665   | 18.37                 | 18.5                                | 0-2                      |     |
|             |            |         | 13        | 1852.5          | 26065   | 18.19                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1882.5          | 26365   | 18.22                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1912.5          | 26665   | 18.41                 | 18.5                                | 0-2                      |     |
|             |            | 25RB    |           |                 | 1852.5  | 26065                 | 18.26                               | 18.5                     | 0-2 |
|             |            |         |           |                 | 1882.5  | 26365                 | 18.21                               | 18.5                     | 0-2 |
|             |            |         |           |                 | 1912.5  | 26665                 | 18.24                               | 18.5                     | 0-2 |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5           | 64-QAM     | 1 RB    | 0         | 1852.5          | 26065   | 19.26                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.42                 | 19.5                                | 0-1                      |
|             |            |         |           | 1912.5          | 26665   | 19.33                 | 19.5                                | 0-1                      |
|             |            |         | 12        | 1852.5          | 26065   | 19.36                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.30                 | 19.5                                | 0-1                      |
|             |            |         |           | 1912.5          | 26665   | 19.28                 | 19.5                                | 0-1                      |
|             |            |         | 24        | 1852.5          | 26065   | 19.44                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.40                 | 19.5                                | 0-1                      |
|             |            |         |           | 1912.5          | 26665   | 19.38                 | 19.5                                | 0-1                      |
|             |            | 12 RB   | 0         | 1852.5          | 26065   | 18.22                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.19                 | 18.5                                | 0-2                      |
|             |            |         |           | 1912.5          | 26665   | 18.32                 | 18.5                                | 0-2                      |
|             |            |         | 6         | 1852.5          | 26065   | 18.18                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.06                 | 18.5                                | 0-2                      |
|             |            |         |           | 1912.5          | 26665   | 18.24                 | 18.5                                | 0-2                      |
|             |            |         | 13        | 1852.5          | 26065   | 18.16                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.19                 | 18.5                                | 0-2                      |
|             |            |         |           | 1912.5          | 26665   | 18.19                 | 18.5                                | 0-2                      |
|             |            | 25RB    |           | 1852.5          | 26065   | 18.22                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.26                 | 18.5                                | 0-2                      |
|             |            |         |           | 1912.5          | 26665   | 18.17                 | 18.5                                | 0-2                      |

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| FDD Band 25 |            |         |           |                 |         |                       |                                     |                          |     |
|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 3           | QPSK       | 1 RB    | 0         | 1851.5          | 26055   | 20.41                 | 20.5                                | 0                        |     |
|             |            |         |           | 1882.5          | 26365   | 20.26                 | 20.5                                | 0                        |     |
|             |            |         |           | 1913.5          | 26675   | 20.33                 | 20.5                                | 0                        |     |
|             |            |         | 7         | 1851.5          | 26055   | 20.44                 | 20.5                                | 0                        |     |
|             |            |         |           | 1882.5          | 26365   | 20.24                 | 20.5                                | 0                        |     |
|             |            |         |           | 1913.5          | 26675   | 20.24                 | 20.5                                | 0                        |     |
|             |            |         | 14        | 1851.5          | 26055   | 20.40                 | 20.5                                | 0                        |     |
|             |            |         |           | 1882.5          | 26365   | 20.39                 | 20.5                                | 0                        |     |
|             |            |         |           | 1913.5          | 26675   | 20.36                 | 20.5                                | 0                        |     |
|             |            | 8 RB    | 0         | 1851.5          | 26055   | 19.28                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.11                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1913.5          | 26675   | 19.24                 | 19.5                                | 0-1                      |     |
|             |            |         | 4         | 1851.5          | 26055   | 19.26                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.06                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1913.5          | 26675   | 19.37                 | 19.5                                | 0-1                      |     |
|             |            |         | 7         | 1851.5          | 26055   | 19.26                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.15                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1913.5          | 26675   | 19.29                 | 19.5                                | 0-1                      |     |
|             |            | 15RB    |           |                 | 1851.5  | 26055                 | 19.28                               | 19.5                     | 0-1 |
|             |            |         |           |                 | 1882.5  | 26365                 | 19.10                               | 19.5                     | 0-1 |
|             |            |         |           |                 | 1913.5  | 26675                 | 19.29                               | 19.5                     | 0-1 |
|             | 16-QAM     | 1 RB    | 0         | 1851.5          | 26055   | 19.48                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.34                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1913.5          | 26675   | 19.43                 | 19.5                                | 0-1                      |     |
|             |            |         | 7         | 1851.5          | 26055   | 19.48                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.01                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1913.5          | 26675   | 19.31                 | 19.5                                | 0-1                      |     |
|             |            |         | 14        | 1851.5          | 26055   | 19.49                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1882.5          | 26365   | 19.47                 | 19.5                                | 0-1                      |     |
|             |            |         |           | 1913.5          | 26675   | 19.46                 | 19.5                                | 0-1                      |     |
|             |            | 8 RB    | 0         | 1851.5          | 26055   | 18.47                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1882.5          | 26365   | 18.10                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1913.5          | 26675   | 18.44                 | 18.5                                | 0-2                      |     |
|             |            |         | 4         | 1851.5          | 26055   | 18.43                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1882.5          | 26365   | 18.20                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1913.5          | 26675   | 18.34                 | 18.5                                | 0-2                      |     |
|             |            |         | 7         | 1851.5          | 26055   | 18.49                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1882.5          | 26365   | 18.38                 | 18.5                                | 0-2                      |     |
|             |            |         |           | 1913.5          | 26675   | 18.48                 | 18.5                                | 0-2                      |     |
|             |            | 15RB    |           |                 | 1851.5  | 26055                 | 18.38                               | 18.5                     | 0-2 |
|             |            |         |           |                 | 1882.5  | 26365                 | 18.08                               | 18.5                     | 0-2 |
|             |            |         |           |                 | 1913.5  | 26675                 | 18.38                               | 18.5                     | 0-2 |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3           | 64-QAM     | 1 RB    | 0         | 1851.5          | 26055   | 19.35                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.34                 | 19.5                                | 0-1                      |
|             |            |         |           | 1913.5          | 26675   | 19.32                 | 19.5                                | 0-1                      |
|             |            |         | 7         | 1851.5          | 26055   | 19.48                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 18.98                 | 19.5                                | 0-1                      |
|             |            |         |           | 1913.5          | 26675   | 19.31                 | 19.5                                | 0-1                      |
|             |            |         | 14        | 1851.5          | 26055   | 19.35                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.35                 | 19.5                                | 0-1                      |
|             |            |         |           | 1913.5          | 26675   | 19.44                 | 19.5                                | 0-1                      |
|             |            | 8 RB    | 0         | 1851.5          | 26055   | 18.40                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.01                 | 18.5                                | 0-2                      |
|             |            |         |           | 1913.5          | 26675   | 18.43                 | 18.5                                | 0-2                      |
|             |            |         | 4         | 1851.5          | 26055   | 18.37                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.17                 | 18.5                                | 0-2                      |
|             |            |         |           | 1913.5          | 26675   | 18.30                 | 18.5                                | 0-2                      |
|             |            |         | 7         | 1851.5          | 26055   | 18.44                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.23                 | 18.5                                | 0-2                      |
|             |            |         |           | 1913.5          | 26675   | 18.38                 | 18.5                                | 0-2                      |
|             |            | 15RB    |           | 1851.5          | 26055   | 18.32                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 17.98                 | 18.5                                | 0-2                      |
|             |            |         |           | 1913.5          | 26675   | 18.29                 | 18.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4         | QPSK       | 1 RB    | 0         | 1850.7          | 26047   | 20.38                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.21                 | 20.5                                | 0                        |
|             |            |         |           | 1914.3          | 26683   | 20.30                 | 20.5                                | 0                        |
|             |            |         | 2         | 1850.7          | 26047   | 20.38                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.20                 | 20.5                                | 0                        |
|             |            |         |           | 1914.3          | 26683   | 20.15                 | 20.5                                | 0                        |
|             |            |         | 5         | 1850.7          | 26047   | 20.36                 | 20.5                                | 0                        |
|             |            |         |           | 1882.5          | 26365   | 20.28                 | 20.5                                | 0                        |
|             |            |         |           | 1914.3          | 26683   | 20.33                 | 20.5                                | 0                        |
|             |            | 3 RB    | 0         | 1850.7          | 26047   | 19.27                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.06                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.19                 | 19.5                                | 0-1                      |
|             |            |         | 2         | 1850.7          | 26047   | 19.21                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.00                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.28                 | 19.5                                | 0-1                      |
|             |            |         | 3         | 1850.7          | 26047   | 19.24                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.13                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.28                 | 19.5                                | 0-1                      |
|             |            | 6RB     |           | 1850.7          | 26047   | 19.27                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.05                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.18                 | 19.5                                | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 1850.7          | 26047   | 19.44                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.24                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.30                 | 19.5                                | 0-1                      |
|             |            |         | 2         | 1850.7          | 26047   | 19.38                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 18.95                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.21                 | 19.5                                | 0-1                      |
|             |            |         | 5         | 1850.7          | 26047   | 19.38                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.34                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.35                 | 19.5                                | 0-1                      |
|             |            | 3 RB    | 0         | 1850.7          | 26047   | 18.43                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.05                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.41                 | 18.5                                | 0-2                      |
|             |            |         | 2         | 1850.7          | 26047   | 18.34                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.14                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.22                 | 18.5                                | 0-2                      |
|             |            |         | 3         | 1850.7          | 26047   | 18.43                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.30                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.45                 | 18.5                                | 0-2                      |
|             |            | 6RB     |           | 1850.7          | 26047   | 18.28                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.05                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.32                 | 18.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4         | 64-QAM     | 1 RB    | 0         | 1850.7          | 26047   | 19.28                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.33                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.23                 | 19.5                                | 0-1                      |
|             |            |         | 2         | 1850.7          | 26047   | 19.45                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 18.90                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.26                 | 19.5                                | 0-1                      |
|             |            |         | 5         | 1850.7          | 26047   | 19.23                 | 19.5                                | 0-1                      |
|             |            |         |           | 1882.5          | 26365   | 19.22                 | 19.5                                | 0-1                      |
|             |            |         |           | 1914.3          | 26683   | 19.40                 | 19.5                                | 0-1                      |
|             |            | 3 RB    | 0         | 1850.7          | 26047   | 18.33                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 17.91                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.39                 | 18.5                                | 0-2                      |
|             |            |         | 2         | 1850.7          | 26047   | 18.31                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.10                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.19                 | 18.5                                | 0-2                      |
|             |            |         | 3         | 1850.7          | 26047   | 18.32                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 18.15                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.32                 | 18.5                                | 0-2                      |
|             |            | 6RB     |           | 1850.7          | 26047   | 18.20                 | 18.5                                | 0-2                      |
|             |            |         |           | 1882.5          | 26365   | 17.93                 | 18.5                                | 0-2                      |
|             |            |         |           | 1914.3          | 26683   | 18.24                 | 18.5                                | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15          | QPSK       | 1 RB    | 0         | 821.5           | 26765   | 22.67                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.68                 | 24                                  | 0                        |
|             |            |         |           | 841.5           | 26965   | 23.05                 | 24                                  | 0                        |
|             |            |         | 36        | 821.5           | 26765   | 22.26                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.64                 | 24                                  | 0                        |
|             |            |         |           | 841.5           | 26965   | 22.36                 | 24                                  | 0                        |
|             |            |         | 74        | 821.5           | 26765   | 22.61                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.69                 | 24                                  | 0                        |
|             |            |         |           | 841.5           | 26965   | 22.52                 | 24                                  | 0                        |
|             |            | 36 RB   | 0         | 821.5           | 26765   | 21.78                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.80                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 21.75                 | 23                                  | 0-1                      |
|             |            |         | 18        | 821.5           | 26765   | 21.69                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.87                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 21.61                 | 23                                  | 0-1                      |
|             |            |         | 37        | 821.5           | 26765   | 21.64                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.72                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 21.65                 | 23                                  | 0-1                      |
|             |            | 75RB    | 821.5     | 26765           | 21.66   | 23                    | 0-1                                 |                          |
|             |            |         | 831.5     | 26865           | 21.77   | 23                    | 0-1                                 |                          |
|             |            |         | 841.5     | 26965           | 21.78   | 23                    | 0-1                                 |                          |
|             | 16-QAM     | 1 RB    | 0         | 821.5           | 26765   | 21.91                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.23                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 22.68                 | 23                                  | 0-1                      |
|             |            |         | 36        | 821.5           | 26765   | 22.03                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.00                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 21.96                 | 23                                  | 0-1                      |
|             |            |         | 74        | 821.5           | 26765   | 21.78                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.68                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 21.68                 | 23                                  | 0-1                      |
|             |            | 36 RB   | 0         | 821.5           | 26765   | 20.87                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.69                 | 22                                  | 0-2                      |
|             |            |         |           | 841.5           | 26965   | 20.73                 | 22                                  | 0-2                      |
|             |            |         | 18        | 821.5           | 26765   | 20.47                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.76                 | 22                                  | 0-2                      |
|             |            |         |           | 841.5           | 26965   | 20.47                 | 22                                  | 0-2                      |
|             |            |         | 37        | 821.5           | 26765   | 20.65                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.77                 | 22                                  | 0-2                      |
|             |            |         |           | 841.5           | 26965   | 20.71                 | 22                                  | 0-2                      |
|             |            | 75RB    | 821.5     | 26765           | 20.74   | 22                    | 0-2                                 |                          |
|             |            |         | 831.5     | 26865           | 20.82   | 22                    | 0-2                                 |                          |
|             |            |         | 841.5     | 26965           | 20.67   | 22                    | 0-2                                 |                          |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15          | 64-QAM     | 1 RB    | 0         | 821.5           | 26765   | 21.86                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.14                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 22.67                 | 23                                  | 0-1                      |
|             |            |         | 36        | 821.5           | 26765   | 22.00                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.89                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 21.91                 | 23                                  | 0-1                      |
|             |            |         | 74        | 821.5           | 26765   | 21.66                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.60                 | 23                                  | 0-1                      |
|             |            |         |           | 841.5           | 26965   | 21.49                 | 23                                  | 0-1                      |
|             |            | 36 RB   | 0         | 821.5           | 26765   | 20.80                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.65                 | 22                                  | 0-2                      |
|             |            |         |           | 841.5           | 26965   | 20.66                 | 22                                  | 0-2                      |
|             |            |         | 18        | 821.5           | 26765   | 20.38                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.60                 | 22                                  | 0-2                      |
|             |            |         |           | 841.5           | 26965   | 20.33                 | 22                                  | 0-2                      |
|             |            |         | 37        | 821.5           | 26765   | 20.57                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.72                 | 22                                  | 0-2                      |
|             |            |         |           | 841.5           | 26965   | 20.67                 | 22                                  | 0-2                      |
|             |            | 75RB    |           | 821.5           | 26765   | 20.68                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.80                 | 22                                  | 0-2                      |
|             |            |         |           | 841.5           | 26965   | 20.59                 | 22                                  | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10          | QPSK       | 1 RB    | 0         | 819             | 26740   | 22.58                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.55                 | 24                                  | 0                        |
|             |            |         |           | 844             | 26990   | 22.76                 | 24                                  | 0                        |
|             |            |         | 25        | 819             | 26740   | 22.57                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.61                 | 24                                  | 0                        |
|             |            |         |           | 844             | 26990   | 22.88                 | 24                                  | 0                        |
|             |            |         | 49        | 819             | 26740   | 22.68                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.64                 | 24                                  | 0                        |
|             |            |         |           | 844             | 26990   | 22.48                 | 24                                  | 0                        |
|             |            | 25 RB   | 0         | 819             | 26740   | 21.66                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.71                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 21.65                 | 23                                  | 0-1                      |
|             |            |         | 12        | 819             | 26740   | 21.62                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.80                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 21.68                 | 23                                  | 0-1                      |
|             |            |         | 25        | 819             | 26740   | 21.68                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.80                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 21.63                 | 23                                  | 0-1                      |
|             |            | 50RB    |           | 819             | 26740   | 21.75                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.75                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 21.72                 | 23                                  | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 819             | 26740   | 22.26                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.22                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 22.26                 | 23                                  | 0-1                      |
|             |            |         | 25        | 819             | 26740   | 21.77                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.71                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 22.19                 | 23                                  | 0-1                      |
|             |            |         | 49        | 819             | 26740   | 21.87                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.34                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 21.52                 | 23                                  | 0-1                      |
|             |            | 25 RB   | 0         | 819             | 26740   | 20.79                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.93                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.67                 | 22                                  | 0-2                      |
|             |            |         | 12        | 819             | 26740   | 20.62                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.95                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.98                 | 22                                  | 0-2                      |
|             |            |         | 25        | 819             | 26740   | 20.68                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.93                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.95                 | 22                                  | 0-2                      |
|             |            | 50RB    |           | 819             | 26740   | 20.78                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.72                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.81                 | 22                                  | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10          | 64-QAM     | 1 RB    | 0         | 819             | 26740   | 21.88                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.13                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 22.53                 | 23                                  | 0-1                      |
|             |            |         | 25        | 819             | 26740   | 21.87                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.83                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 21.81                 | 23                                  | 0-1                      |
|             |            |         | 49        | 819             | 26740   | 21.60                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.68                 | 23                                  | 0-1                      |
|             |            |         |           | 844             | 26990   | 21.63                 | 23                                  | 0-1                      |
|             |            | 25 RB   | 0         | 819             | 26740   | 20.80                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.51                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.73                 | 22                                  | 0-2                      |
|             |            |         | 12        | 819             | 26740   | 20.38                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.67                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.44                 | 22                                  | 0-2                      |
|             |            |         | 25        | 819             | 26740   | 20.65                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.71                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.58                 | 22                                  | 0-2                      |
|             |            | 50RB    |           | 819             | 26740   | 20.62                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.64                 | 22                                  | 0-2                      |
|             |            |         |           | 844             | 26990   | 20.51                 | 22                                  | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 5           | QPSK       | 1 RB    | 0         | 816.5           | 26715   | 22.79                 | 24                                  | 0                        |     |
|             |            |         |           | 831.5           | 26865   | 22.73                 | 24                                  | 0                        |     |
|             |            |         |           | 846.5           | 27015   | 22.62                 | 24                                  | 0                        |     |
|             |            |         | 12        | 816.5           | 26715   | 22.44                 | 24                                  | 0                        |     |
|             |            |         |           | 831.5           | 26865   | 22.93                 | 24                                  | 0                        |     |
|             |            |         |           | 846.5           | 27015   | 22.79                 | 24                                  | 0                        |     |
|             |            |         | 24        | 816.5           | 26715   | 22.40                 | 24                                  | 0                        |     |
|             |            |         |           | 831.5           | 26865   | 22.85                 | 24                                  | 0                        |     |
|             |            |         |           | 846.5           | 27015   | 22.31                 | 24                                  | 0                        |     |
|             |            | 12 RB   | 0         | 816.5           | 26715   | 21.75                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.75                 | 23                                  | 0-1                      |     |
|             |            |         |           | 846.5           | 27015   | 21.58                 | 23                                  | 0-1                      |     |
|             |            |         | 6         | 816.5           | 26715   | 21.68                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.72                 | 23                                  | 0-1                      |     |
|             |            |         |           | 846.5           | 27015   | 21.53                 | 23                                  | 0-1                      |     |
|             |            |         | 13        | 816.5           | 26715   | 21.71                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.78                 | 23                                  | 0-1                      |     |
|             |            |         |           | 846.5           | 27015   | 21.54                 | 23                                  | 0-1                      |     |
|             |            | 25RB    |           |                 | 816.5   | 26715                 | 21.69                               | 23                       | 0-1 |
|             |            |         |           |                 | 831.5   | 26865                 | 21.73                               | 23                       | 0-1 |
|             |            |         |           |                 | 846.5   | 27015                 | 21.67                               | 23                       | 0-1 |
|             | 16-QAM     | 1 RB    | 0         | 816.5           | 26715   | 22.42                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.33                 | 23                                  | 0-1                      |     |
|             |            |         |           | 846.5           | 27015   | 21.74                 | 23                                  | 0-1                      |     |
|             |            |         | 12        | 816.5           | 26715   | 21.90                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.81                 | 23                                  | 0-1                      |     |
|             |            |         |           | 846.5           | 27015   | 21.98                 | 23                                  | 0-1                      |     |
|             |            |         | 24        | 816.5           | 26715   | 21.73                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.83                 | 23                                  | 0-1                      |     |
|             |            |         |           | 846.5           | 27015   | 21.47                 | 23                                  | 0-1                      |     |
|             |            | 12 RB   | 0         | 816.5           | 26715   | 21.03                 | 22                                  | 0-2                      |     |
|             |            |         |           | 831.5           | 26865   | 20.78                 | 22                                  | 0-2                      |     |
|             |            |         |           | 846.5           | 27015   | 20.47                 | 22                                  | 0-2                      |     |
|             |            |         | 6         | 816.5           | 26715   | 20.53                 | 22                                  | 0-2                      |     |
|             |            |         |           | 831.5           | 26865   | 20.76                 | 22                                  | 0-2                      |     |
|             |            |         |           | 846.5           | 27015   | 20.36                 | 22                                  | 0-2                      |     |
|             |            |         | 13        | 816.5           | 26715   | 20.46                 | 22                                  | 0-2                      |     |
|             |            |         |           | 831.5           | 26865   | 20.81                 | 22                                  | 0-2                      |     |
|             |            |         |           | 846.5           | 27015   | 20.43                 | 22                                  | 0-2                      |     |
|             |            | 25RB    |           |                 | 816.5   | 26715                 | 20.77                               | 22                       | 0-2 |
|             |            |         |           |                 | 831.5   | 26865                 | 20.78                               | 22                       | 0-2 |
|             |            |         |           |                 | 846.5   | 27015                 | 20.58                               | 22                       | 0-2 |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5           | 64-QAM     | 1 RB    | 0         | 816.5           | 26715   | 21.85                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.14                 | 23                                  | 0-1                      |
|             |            |         |           | 846.5           | 27015   | 22.53                 | 23                                  | 0-1                      |
|             |            |         | 12        | 816.5           | 26715   | 21.96                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.91                 | 23                                  | 0-1                      |
|             |            |         |           | 846.5           | 27015   | 21.89                 | 23                                  | 0-1                      |
|             |            |         | 24        | 816.5           | 26715   | 21.78                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.66                 | 23                                  | 0-1                      |
|             |            |         |           | 846.5           | 27015   | 21.53                 | 23                                  | 0-1                      |
|             |            | 12 RB   | 0         | 816.5           | 26715   | 20.83                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.67                 | 22                                  | 0-2                      |
|             |            |         |           | 846.5           | 27015   | 20.59                 | 22                                  | 0-2                      |
|             |            |         | 6         | 816.5           | 26715   | 20.42                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.57                 | 22                                  | 0-2                      |
|             |            |         |           | 846.5           | 27015   | 20.36                 | 22                                  | 0-2                      |
|             |            |         | 13        | 816.5           | 26715   | 20.57                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.65                 | 22                                  | 0-2                      |
|             |            |         |           | 846.5           | 27015   | 20.54                 | 22                                  | 0-2                      |
|             |            | 25RB    |           | 816.5           | 26715   | 20.57                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.68                 | 22                                  | 0-2                      |
|             |            |         |           | 846.5           | 27015   | 20.60                 | 22                                  | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|-----|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |     |
| 3           | QPSK       | 1 RB    | 0         | 815.5           | 26705   | 22.63                 | 24                                  | 0                        |     |
|             |            |         |           | 831.5           | 26865   | 22.83                 | 24                                  | 0                        |     |
|             |            |         |           | 847.5           | 27025   | 22.63                 | 24                                  | 0                        |     |
|             |            |         | 7         | 815.5           | 26705   | 22.83                 | 24                                  | 0                        |     |
|             |            |         |           | 831.5           | 26865   | 23.00                 | 24                                  | 0                        |     |
|             |            |         |           | 847.5           | 27025   | 22.56                 | 24                                  | 0                        |     |
|             |            |         | 14        | 815.5           | 26705   | 22.69                 | 24                                  | 0                        |     |
|             |            |         |           | 831.5           | 26865   | 23.03                 | 24                                  | 0                        |     |
|             |            |         |           | 847.5           | 27025   | 22.34                 | 24                                  | 0                        |     |
|             |            | 8 RB    | 0         | 815.5           | 26705   | 21.80                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.82                 | 23                                  | 0-1                      |     |
|             |            |         |           | 847.5           | 27025   | 21.63                 | 23                                  | 0-1                      |     |
|             |            |         | 4         | 815.5           | 26705   | 21.72                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.81                 | 23                                  | 0-1                      |     |
|             |            |         |           | 847.5           | 27025   | 21.74                 | 23                                  | 0-1                      |     |
|             |            |         | 7         | 815.5           | 26705   | 21.77                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.79                 | 23                                  | 0-1                      |     |
|             |            |         |           | 847.5           | 27025   | 21.54                 | 23                                  | 0-1                      |     |
|             |            | 15RB    |           |                 | 815.5   | 26705                 | 21.71                               | 23                       | 0-1 |
|             |            |         |           |                 | 831.5   | 26865                 | 21.82                               | 23                       | 0-1 |
|             |            |         |           |                 | 847.5   | 27025                 | 21.59                               | 23                       | 0-1 |
|             | 16-QAM     | 1 RB    | 0         | 815.5           | 26705   | 21.84                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.98                 | 23                                  | 0-1                      |     |
|             |            |         |           | 847.5           | 27025   | 22.02                 | 23                                  | 0-1                      |     |
|             |            |         | 7         | 815.5           | 26705   | 21.58                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.77                 | 23                                  | 0-1                      |     |
|             |            |         |           | 847.5           | 27025   | 21.61                 | 23                                  | 0-1                      |     |
|             |            |         | 14        | 815.5           | 26705   | 22.22                 | 23                                  | 0-1                      |     |
|             |            |         |           | 831.5           | 26865   | 21.66                 | 23                                  | 0-1                      |     |
|             |            |         |           | 847.5           | 27025   | 21.36                 | 23                                  | 0-1                      |     |
|             |            | 8 RB    | 0         | 815.5           | 26705   | 20.92                 | 22                                  | 0-2                      |     |
|             |            |         |           | 831.5           | 26865   | 20.59                 | 22                                  | 0-2                      |     |
|             |            |         |           | 847.5           | 27025   | 20.57                 | 22                                  | 0-2                      |     |
|             |            |         | 4         | 815.5           | 26705   | 20.86                 | 22                                  | 0-2                      |     |
|             |            |         |           | 831.5           | 26865   | 20.89                 | 22                                  | 0-2                      |     |
|             |            |         |           | 847.5           | 27025   | 20.23                 | 22                                  | 0-2                      |     |
|             |            |         | 7         | 815.5           | 26705   | 21.01                 | 22                                  | 0-2                      |     |
|             |            |         |           | 831.5           | 26865   | 20.73                 | 22                                  | 0-2                      |     |
|             |            |         |           | 847.5           | 27025   | 20.39                 | 22                                  | 0-2                      |     |
|             |            | 15RB    |           |                 | 815.5   | 26705                 | 20.87                               | 22                       | 0-2 |
|             |            |         |           |                 | 831.5   | 26865                 | 20.75                               | 22                       | 0-2 |
|             |            |         |           |                 | 847.5   | 27025                 | 20.19                               | 22                       | 0-2 |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3           | 64-QAM     | 1 RB    | 0         | 815.5           | 26705   | 21.90                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.16                 | 23                                  | 0-1                      |
|             |            |         |           | 847.5           | 27025   | 22.64                 | 23                                  | 0-1                      |
|             |            |         | 7         | 815.5           | 26705   | 21.93                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.84                 | 23                                  | 0-1                      |
|             |            |         |           | 847.5           | 27025   | 21.96                 | 23                                  | 0-1                      |
|             |            |         | 14        | 815.5           | 26705   | 21.60                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.53                 | 23                                  | 0-1                      |
|             |            |         |           | 847.5           | 27025   | 21.61                 | 23                                  | 0-1                      |
|             |            | 8 RB    | 0         | 815.5           | 26705   | 20.76                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.64                 | 22                                  | 0-2                      |
|             |            |         |           | 847.5           | 27025   | 20.64                 | 22                                  | 0-2                      |
|             |            |         | 4         | 815.5           | 26705   | 20.44                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.69                 | 22                                  | 0-2                      |
|             |            |         |           | 847.5           | 27025   | 20.38                 | 22                                  | 0-2                      |
|             |            |         | 7         | 815.5           | 26705   | 20.49                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.59                 | 22                                  | 0-2                      |
|             |            |         |           | 847.5           | 27025   | 20.51                 | 22                                  | 0-2                      |
|             |            | 15RB    |           | 815.5           | 26705   | 20.74                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.70                 | 22                                  | 0-2                      |
|             |            |         |           | 847.5           | 27025   | 20.55                 | 22                                  | 0-2                      |

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|-------------|------------|---------|-----------|-----------------|---------|-----------------------|-------------------------------------|--------------------------|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4         | QPSK       | 1 RB    | 0         | 814.7           | 26697   | 22.70                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.65                 | 24                                  | 0                        |
|             |            |         |           | 848.3           | 27033   | 22.49                 | 24                                  | 0                        |
|             |            |         | 2         | 814.7           | 26697   | 22.72                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.74                 | 24                                  | 0                        |
|             |            |         |           | 848.3           | 27033   | 22.54                 | 24                                  | 0                        |
|             |            |         | 5         | 814.7           | 26697   | 22.65                 | 24                                  | 0                        |
|             |            |         |           | 831.5           | 26865   | 22.70                 | 24                                  | 0                        |
|             |            |         |           | 848.3           | 27033   | 22.31                 | 24                                  | 0                        |
|             |            | 3 RB    | 0         | 814.7           | 26697   | 22.82                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.80                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 22.51                 | 23                                  | 0-1                      |
|             |            |         | 2         | 814.7           | 26697   | 22.77                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.75                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 22.39                 | 23                                  | 0-1                      |
|             |            |         | 3         | 814.7           | 26697   | 22.78                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.84                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 22.37                 | 23                                  | 0-1                      |
|             |            | 6RB     |           | 814.7           | 26697   | 21.86                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.75                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 21.50                 | 23                                  | 0-1                      |
|             | 16-QAM     | 1 RB    | 0         | 814.7           | 26697   | 22.30                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.82                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 21.77                 | 23                                  | 0-1                      |
|             |            |         | 2         | 814.7           | 26697   | 22.07                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.13                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 21.40                 | 23                                  | 0-1                      |
|             |            |         | 5         | 814.7           | 26697   | 21.85                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.11                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 21.03                 | 23                                  | 0-1                      |
|             |            | 3 RB    | 0         | 814.7           | 26697   | 21.89                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 21.95                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 21.42                 | 22                                  | 0-2                      |
|             |            |         | 2         | 814.7           | 26697   | 21.84                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 21.96                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 21.36                 | 22                                  | 0-2                      |
|             |            |         | 3         | 814.7           | 26697   | 21.81                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 21.97                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 21.25                 | 22                                  | 0-2                      |
|             |            | 6RB     |           | 814.7           | 26697   | 20.83                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.60                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 20.52                 | 22                                  | 0-2                      |

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| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4         | 64-QAM     | 1 RB    | 0         | 814.7           | 26697   | 21.80                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 22.16                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 22.50                 | 23                                  | 0-1                      |
|             |            |         | 2         | 814.7           | 26697   | 21.97                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.96                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 21.94                 | 23                                  | 0-1                      |
|             |            |         | 5         | 814.7           | 26697   | 21.72                 | 23                                  | 0-1                      |
|             |            |         |           | 831.5           | 26865   | 21.55                 | 23                                  | 0-1                      |
|             |            |         |           | 848.3           | 27033   | 21.55                 | 23                                  | 0-1                      |
|             |            | 3 RB    | 0         | 814.7           | 26697   | 20.86                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.61                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 20.56                 | 22                                  | 0-2                      |
|             |            |         | 2         | 814.7           | 26697   | 20.35                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.72                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 20.34                 | 22                                  | 0-2                      |
|             |            |         | 3         | 814.7           | 26697   | 20.50                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.70                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 20.70                 | 22                                  | 0-2                      |
|             |            | 6RB     |           | 814.7           | 26697   | 20.65                 | 22                                  | 0-2                      |
|             |            |         |           | 831.5           | 26865   | 20.64                 | 22                                  | 0-2                      |
|             |            |         |           | 848.3           | 27033   | 20.66                 | 22                                  | 0-2                      |

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**WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) conducted power table:**

| Main Antenna |               |         |                 |           |                                              |                     |
|--------------|---------------|---------|-----------------|-----------|----------------------------------------------|---------------------|
| Band         | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz     | 802.11b       | 1       | 2412            | 1Mbps     | 12.00                                        | 11.69               |
|              |               | 6       | 2437            |           | 12.00                                        | 11.78               |
|              |               | 11      | 2462            |           | 12.00                                        | 11.98               |
|              | 802.11g       | 1       | 2412            | 6Mbps     | 12.00                                        | 11.74               |
|              |               | 6       | 2437            |           | 12.00                                        | 11.77               |
|              |               | 11      | 2462            |           | 12.00                                        | 11.66               |
|              | 802.11n20-HT0 | 1       | 2412            | MCS0      | 12.00                                        | 11.81               |
|              |               | 6       | 2437            |           | 12.00                                        | 11.67               |
|              |               | 11      | 2462            |           | 12.00                                        | 11.73               |
|              | 802.11n40-HT0 | 3       | 2422            | MCS0      | 12.00                                        | 11.72               |
|              |               | 6       | 2437            |           | 12.00                                        | 11.80               |
|              |               | 9       | 2452            |           | 12.00                                        | 11.57               |

| Main Antenna  |               |         |                 |           |                                              |                     |
|---------------|---------------|---------|-----------------|-----------|----------------------------------------------|---------------------|
| Band          | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a       | 36      | 5180            | 6Mbps     | 12.26                                        | 11.89               |
|               |               | 40      | 5200            |           | 12.90                                        | 11.78               |
|               |               | 44      | 5220            |           | 12.84                                        | 12.79               |
|               |               | 48      | 5240            |           | 12.90                                        | 12.81               |
|               | 802.11n20-HT0 | 36      | 5180            | MCS0      | 12.88                                        | 12.76               |
|               |               | 40      | 5200            |           | 13.80                                        | 12.45               |
|               |               | 44      | 5220            |           | 13.69                                        | 13.65               |
|               |               | 48      | 5240            |           | 13.80                                        | 13.77               |
|               | 802.11n40-HT0 | 38      | 5190            | MCS0      | 12.52                                        | 12.47               |
|               |               | 46      | 5230            |           | 12.98                                        | 12.88               |

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| Main Antenna  |               |         |                 |           |                                              |                     |
|---------------|---------------|---------|-----------------|-----------|----------------------------------------------|---------------------|
| Band          | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a       | 52      | 5260            | 6Mbps     | 13.13                                        | 12.91               |
|               |               | 56      | 5280            |           | 12.91                                        | 12.19               |
|               |               | 60      | 5300            |           | 12.91                                        | 12.89               |
|               |               | 64      | 5320            |           | 12.59                                        | 12.24               |
|               | 802.11n20-HT0 | 52      | 5260            | MCS0      | 13.91                                        | 13.84               |
|               |               | 56      | 5280            |           | 13.91                                        | 13.15               |
|               |               | 60      | 5300            |           | 13.73                                        | 13.67               |
|               |               | 64      | 5320            |           | 13.43                                        | 13.19               |
|               | 802.11n40-HT0 | 54      | 5270            | MCS0      | 13.20                                        | 13.04               |
|               |               | 62      | 5310            |           | 12.80                                        | 12.77               |

| Main Antenna |               |         |                 |           |                                              |                     |
|--------------|---------------|---------|-----------------|-----------|----------------------------------------------|---------------------|
| Band         | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 GHz     | 802.11a       | 100     | 5500            | 6Mbps     | 12.43                                        | 12.18               |
|              |               | 104     | 5520            |           | 12.93                                        | 12.16               |
|              |               | 116     | 5580            |           | 12.93                                        | 12.84               |
|              |               | 120     | 5600            |           | 12.93                                        | 12.12               |
|              |               | 136     | 5680            |           | 12.93                                        | 12.08               |
|              |               | 140     | 5700            |           | 12.92                                        | 12.90               |
|              |               | 144     | 5720            |           | 12.93                                        | 12.11               |
|              | 802.11n20-HT0 | 100     | 5500            | MCS0      | 12.28                                        | 12.18               |
|              |               | 104     | 5520            |           | 13.15                                        | 12.01               |
|              |               | 116     | 5580            |           | 12.56                                        | 12.08               |
|              |               | 120     | 5600            |           | 13.15                                        | 12.05               |
|              |               | 136     | 5680            |           | 13.15                                        | 11.99               |
|              |               | 140     | 5700            |           | 13.15                                        | 13.01               |
|              |               | 144     | 5720            |           | 13.15                                        | 11.93               |
|              | 802.11n40-HT0 | 102     | 5510            | MCS0      | 10.42                                        | 10.33               |
|              |               | 110     | 5550            |           | 10.66                                        | 10.55               |
|              |               | 118     | 5590            |           | 12.31                                        | 12.11               |
|              |               | 134     | 5670            |           | 12.31                                        | 12.28               |
|              |               | 142     | 5710            |           | 12.31                                        | 12.07               |

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| Main Antenna |               |         |                 |           |                                              |                     |
|--------------|---------------|---------|-----------------|-----------|----------------------------------------------|---------------------|
| Band         | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz     | 802.11a       | 149     | 5745            | 6Mbps     | 11.96                                        | 11.95               |
|              |               | 157     | 5785            |           | 11.59                                        | 11.12               |
|              |               | 165     | 5825            |           | 11.61                                        | 11.58               |
|              | 802.11n20-HT0 | 149     | 5745            | MCS0      | 11.81                                        | 11.35               |
|              |               | 157     | 5785            |           | 11.39                                        | 11.01               |
|              |               | 165     | 5825            |           | 10.64                                        | 10.63               |
|              | 802.11n40-HT0 | 151     | 5755            | MCS0      | 10.26                                        | 10.22               |
|              |               | 159     | 5795            |           | 10.79                                        | 10.78               |

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### Bluetooth maximum power table:

| Mode   | Channel | Frequency (MHz) | 1Mbps                                        |                     | 2Mbps                                        |                     | 3Mbps                                        |                     |
|--------|---------|-----------------|----------------------------------------------|---------------------|----------------------------------------------|---------------------|----------------------------------------------|---------------------|
|        |         |                 | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| BR/EDR | CH 00   | 2402            | 7.24                                         | 6.13                | 7.12                                         | 3.99                | 7.69                                         | 3.97                |
|        | CH 39   | 2441            | 6.58                                         | 6.10                | 6.48                                         | 3.89                | 6.97                                         | 3.90                |
|        | CH 78   | 2480            | 7.61                                         | 6.18                | 7.63                                         | 3.87                | 8.14                                         | 3.93                |

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) |
|------|---------|-----------------|----------------------------|----------------------------------------------|
|      |         |                 | GFSK                       |                                              |
| LE   | CH 00   | 2402            | -3.02                      | 2.9                                          |
|      | CH 19   | 2440            | -2.98                      | 1.77                                         |
|      | CH 39   | 2480            | -3.55                      | 3.09                                         |

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BT\_duty(2.88/3.75=0.768)

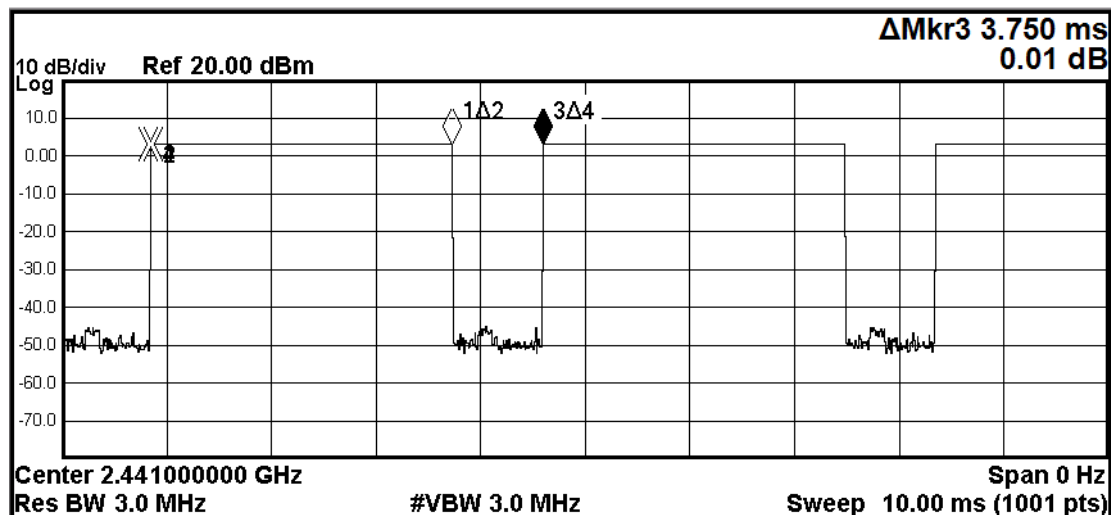
Center Freq 2.441000000 GHz

PNO: Fast  
IFGain: Low

Trig: Free Run  
Atten: 30 dB

Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6  
TYPE WWWWWWW  
DET P N N N N N



| MKR | MODE | TRC | SCL | X   | Y        | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|-----|----------|----------|----------------|----------------|
| 1   | Δ2   | 1   | t   | (Δ) | 2.880 ms | (Δ)      | 0.11 dB        |                |
| 2   | F    | 1   | t   |     | 850.0 μs |          | 2.89 dBm       |                |
| 3   | Δ4   | 1   | t   | (Δ) | 3.750 ms | (Δ)      | 0.01 dB        |                |
| 4   | F    | 1   | t   |     | 850.0 μs |          | 2.89 dBm       |                |
| 5   |      |     |     |     |          |          |                |                |
| 6   |      |     |     |     |          |          |                |                |
| 7   |      |     |     |     |          |          |                |                |
| 8   |      |     |     |     |          |          |                |                |
| 9   |      |     |     |     |          |          |                |                |
| 10  |      |     |     |     |          |          |                |                |
| 11  |      |     |     |     |          |          |                |                |

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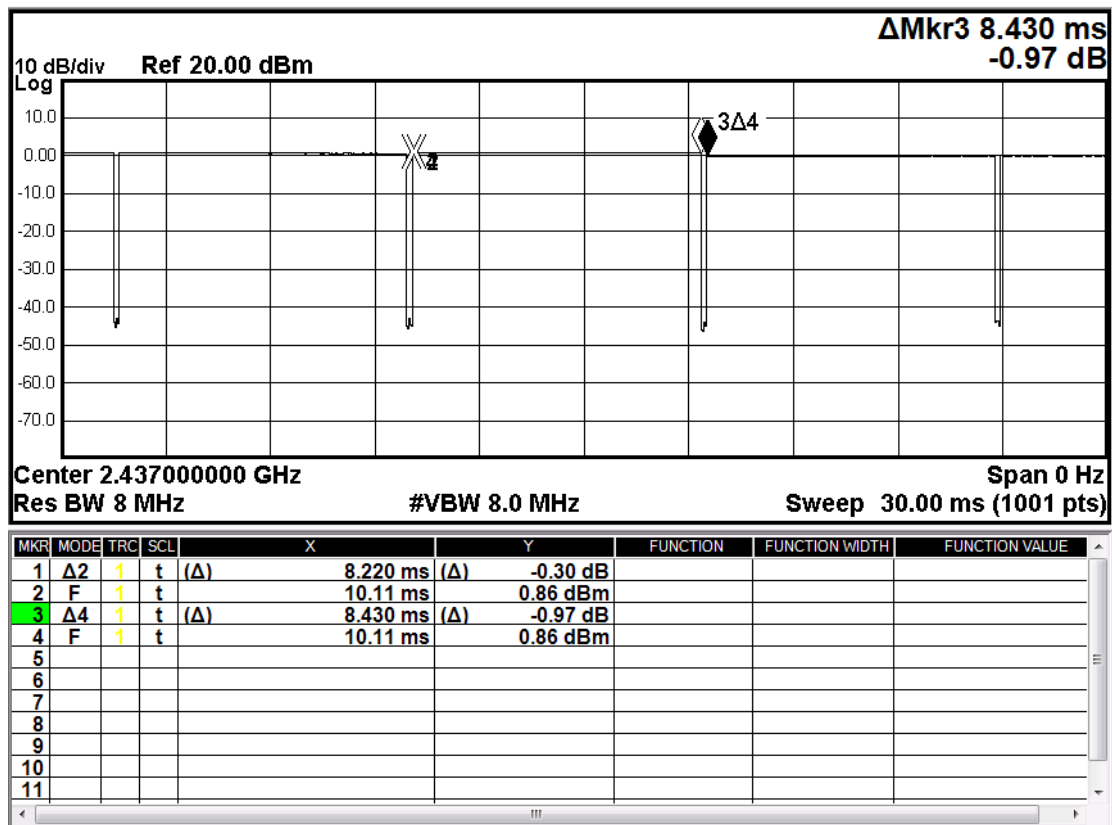
2.4G b\_duty (8.22/8.43=0.975)  
Center Freq 2.437000000 GHz

PNO: Fast  
IFGain:Low

Trig: Free Run  
Atten: 30 dB

Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6  
TYPE WWWWWW  
DET P N N N N N



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5G a\_duty(1.36/1.56=0.872)

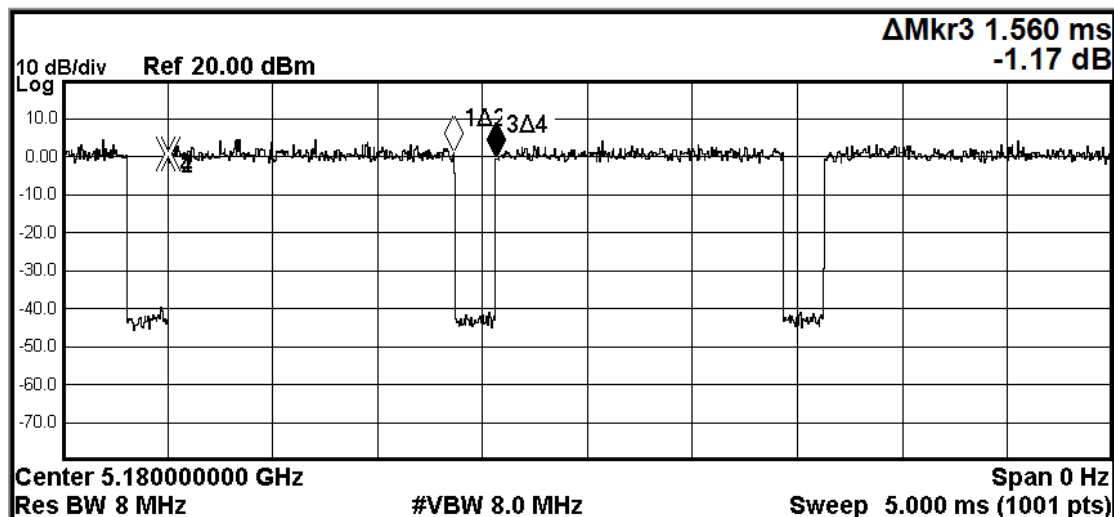
Center Freq 5.180000000 GHz

PNO: Fast  
IFGain: Low

Trig: Free Run  
Atten: 30 dB

Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6  
TYPE W W W W W W W  
DET P N N N N N



| MKR | MODE | TRC | SCL |     | X        | Y   | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|-----|----------|-----|----------|----------------|----------------|
| 1   | Δ2   | 1   | t   | (Δ) | 1.360 ms | (Δ) | 0.61 dB  |                |                |
| 2   | F    | 1   | t   |     | 505.0 μs |     | 0.56 dBm |                |                |
| 3   | Δ4   | 1   | t   | (Δ) | 1.560 ms | (Δ) | -1.17 dB |                |                |
| 4   | F    | 1   | t   |     | 505.0 μs |     | 0.56 dBm |                |                |
| 5   |      |     |     |     |          |     |          |                |                |
| 6   |      |     |     |     |          |     |          |                |                |
| 7   |      |     |     |     |          |     |          |                |                |
| 8   |      |     |     |     |          |     |          |                |                |
| 9   |      |     |     |     |          |     |          |                |                |
| 10  |      |     |     |     |          |     |          |                |                |
| 11  |      |     |     |     |          |     |          |                |                |

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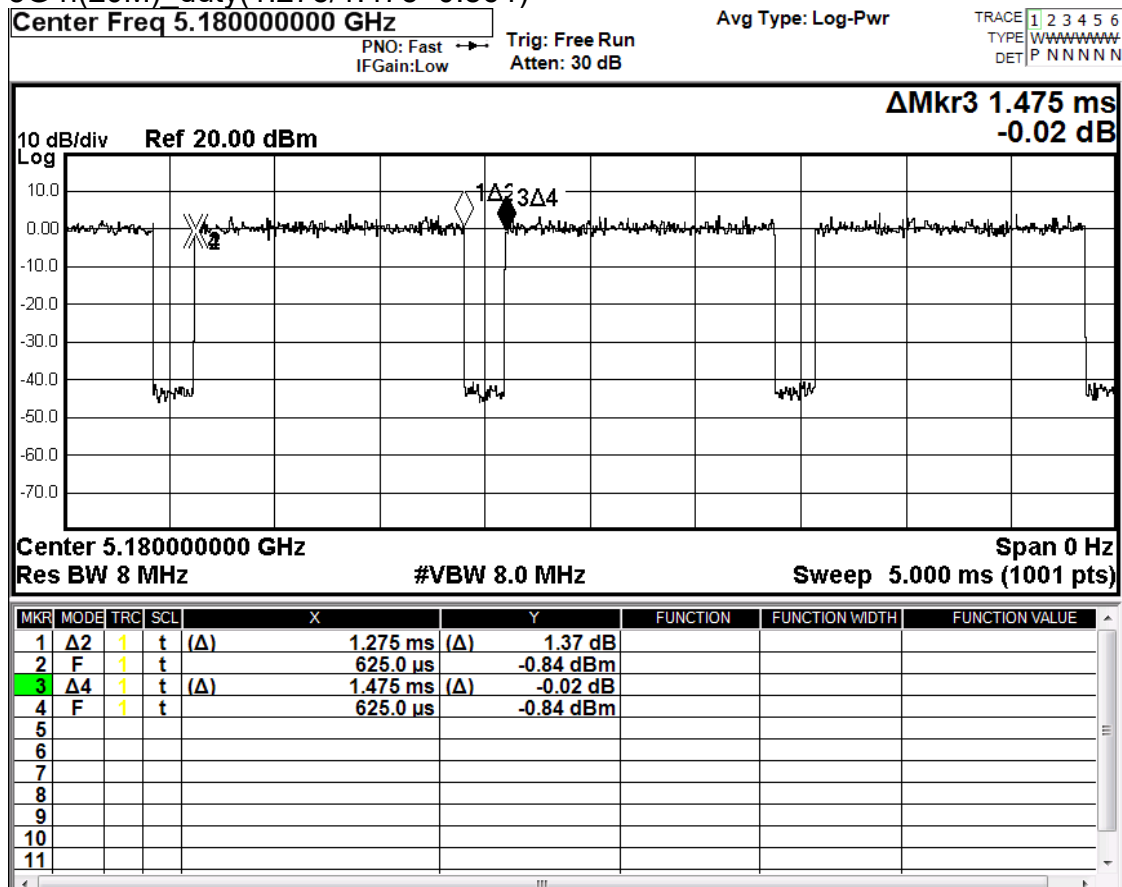
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5G n(20M) duty(1.275/1.475=0.864)



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## 1.4 Test Environment

Ambient Temperature:  $22\pm 2^{\circ}\text{C}$

Tissue Simulating Liquid:  $22\pm 2^{\circ}\text{C}$

## 1.5 Operation Description

1. The EUT is controlled by using a Radio Communication Tester (MT8820C), and the communication between the EUT and the tester is established by air link.
2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
3. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
4. SAR test reduction for GPRS mode is determined by the source-based time-averaged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance.
5. The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is  $\leq \frac{1}{4}$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA).
6. The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is  $\leq \frac{1}{4}$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA).

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7. LTE modes test according to **KDB 941225D05v02r05**.

a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.

- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

- When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.

- When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation

- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are  $\leq 0.8$  W/kg.

- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.

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- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is  $> \frac{1}{2}$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is  $> 1.45$  W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

## WLAN

### 802.11b DSSS SAR Test Requirements:

8. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
9. When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.

### 802.11g/n OFDM SAR Test Exclusion Requirements:

10. SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
11. According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8$  W/kg, when the transmission band is  $\leq 100$  MHz.
12. According to **KDB865664D01v01r04**, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8$  W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit)

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13. According to **KDB447498D01v06** – The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for product specific 10-g SAR.
14. UMPC mini-tablet procedure is used to test for 1-g SAR on all surfaces and side edges with a transmitting antenna located at  $\leq 25$  mm from that surface or edge, at 5 mm separation from a flat phantom, for the data modes, wireless technologies and frequency bands supported by the device to determine SAR compliance.

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## 1.6 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
3. The generation of a high-resolution mesh within the measured volume.
4. The interpolation of all measured values from the measurement grid to the high-resolution grid.
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface.
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D

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interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is then moved around until the highest averaged SAR is found.

If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

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## 1.7 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

### 1.7.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field ( $E$ ) and the temperature gradient ( $\delta T / \delta t$ ) in the liquid.

$$SAR = C \frac{\delta T}{\delta t},$$

Whereby  $\sigma$  is the conductivity,  $\rho$  the density and  $c$  the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

1. The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the

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thermal equilibrium in the liquid. With a careful setup these errors can be kept small.

2. The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
3. The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ( $\sim 2\%$  for  $c$ ; much better for  $\rho$ ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed  $\pm 5\%$ .
4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about  $\pm 10\%$  (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is  $\pm 5\%$  (RSS) when the same liquid is used for the calibration and for actual measurements and  $\pm 7-9\%$  (RSS) when not, which is in good agreement with the estimates given in [2].

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### 1.7.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

1. The setup must enable accurate determination of the incident power.
2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

### References

- (1) N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
- (2) K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, "Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954-1962, Oct. 1996.
- (3) K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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## 1.8 The SAR Measurement System

A block diagram of the SAR measurement system is given in Fig. a. This SAR measurement system uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). Model EX3DV4 field probes are used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E_i|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

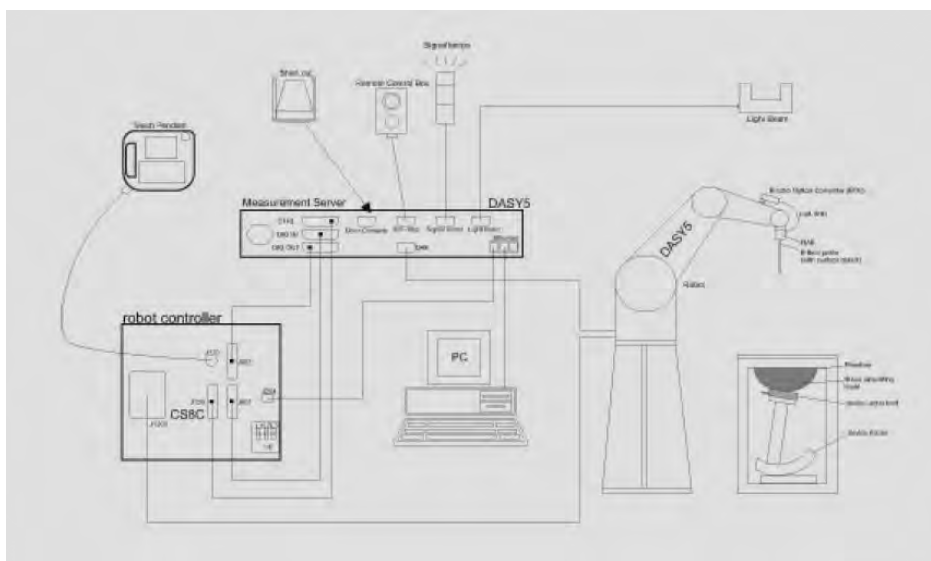


Fig. a A block diagram of the SAR measurement system

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The DASY 5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. Data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
5. The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
7. A computer operating Windows7
8. DASY 5 software.
9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
10. The SAM twin phantom enabling testing left-hand and right-hand usage.
11. The device holder for handheld mobile phones.
12. Tissue simulating liquid mixed according to the given recipes.
13. Validation dipole kits allowing to validate the proper functioning of the system.

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## 1.9 System Components

### EX3DV4 E-Field Probe

|               |                                                                                                                                                                                                            |                                                                                     |  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| Construction  | Symmetrical design with triangular core<br>Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)                                                   |  |  |
| Calibration   | Basic Broad Band Calibration in air<br>Conversion Factors (CF) for<br>HSL750/835/1750/1900/2450/2600/5200/5300/5600/5800 MHz Additional CF for other liquids and frequencies upon request                  |                                                                                     |  |
| Frequency     | 10 MHz to > 6 GHz, Linearity: $\pm 0.6$ dB                                                                                                                                                                 |                                                                                     |  |
| Directivity   | $\pm 0.3$ dB in HSL (rotation around probe axis)<br>$\pm 0.5$ dB in tissue material (rotation normal to probe axis)                                                                                        |                                                                                     |  |
| Dynamic Range | 10 $\mu$ W/g to > 100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)                                                                                                                     |                                                                                     |  |
| Dimensions    | Tip diameter: 2.5 mm                                                                                                                                                                                       |                                                                                     |  |
| Application   | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. |                                                                                     |  |

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## Phantom

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Model           | Twin SAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |
| Construction    | <p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209.</p> <p>It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.</p> |                                                                                     |
| Shell Thickness | 2 ± 0.2 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Filling Volume  | Approx. 25 liters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| Dimensions      | Height: 850 mm;<br>Length: 1000 mm;<br>Width: 500 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |

## DEVICE HOLDER

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Construction | <p>In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).</p> |  <p>Device Holder</p> |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

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## 1.10 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within  $\pm 10\%$  (according to KDB865664D01) from the target SAR values.

These tests were done at 750/835/1750/1900/2450/2600/5200/5300/5600/5800 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1. During the tests, the liquid depth above the ear reference points was above 15 cm ( $\leq 3G$ ) or 10 cm ( $> 3G$ ) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

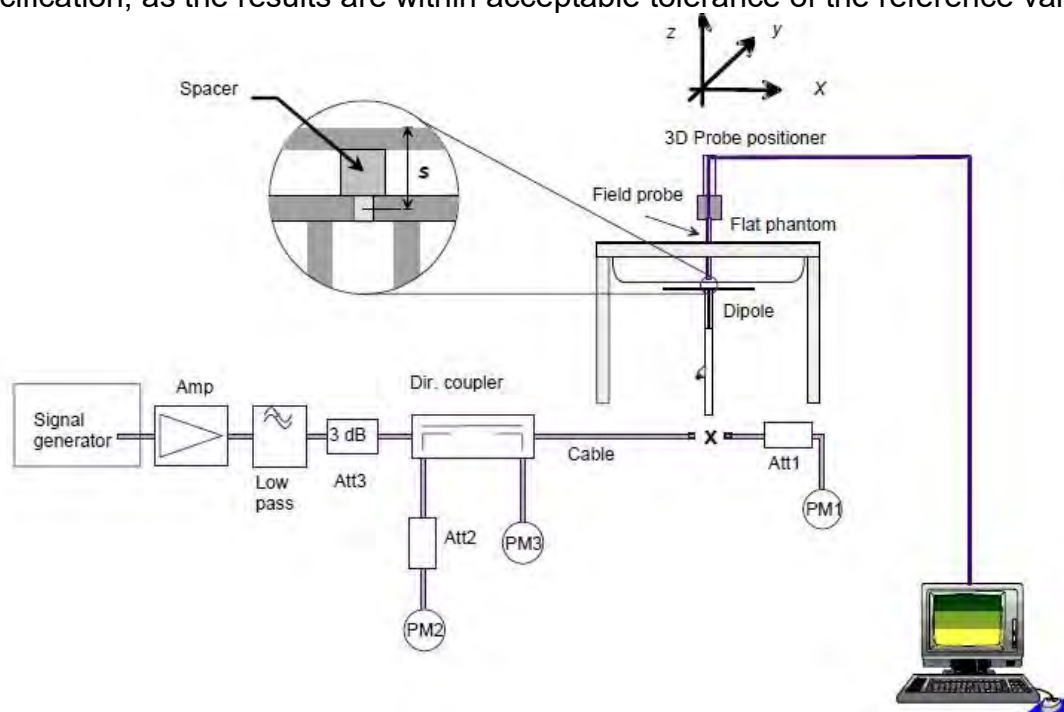


Fig. b The block diagram of system verification

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| Validation Kit | S/N   | Frequency (MHz) |      | 1W Target SAR-1g (mW/g) | Pin=250mW Measured SAR-1g (mW/g) | Measured SAR-1g normalized to 1W (mW/g) | Deviation (%) | Measured Date |
|----------------|-------|-----------------|------|-------------------------|----------------------------------|-----------------------------------------|---------------|---------------|
| D750V2         | 1015  | 750             | Head | 8.6                     | 2.16                             | 8.64                                    | 0.47%         | Aug. 09, 2020 |
| D835V2         | 4d063 | 835             | Head | 9.57                    | 2.42                             | 9.68                                    | 1.15%         | Aug. 10, 2020 |
| D835V2         | 4d063 | 835             | Head | 9.57                    | 2.44                             | 9.76                                    | 1.99%         | Aug. 11, 2020 |
| D1750V2        | 1008  | 1750            | Head | 36.8                    | 9.24                             | 36.96                                   | 0.43%         | Aug. 12, 2020 |
| D1900V2        | 5d173 | 1900            | Head | 39.4                    | 9.86                             | 39.44                                   | 0.10%         | Aug. 13, 2020 |
| D1900V2        | 5d173 | 1900            | Head | 39.4                    | 9.79                             | 39.16                                   | -0.61%        | Aug. 27, 2020 |
| D2450V2        | 727   | 2450            | Head | 52.6                    | 13.60                            | 54.40                                   | 3.42%         | Aug. 14, 2020 |
| D2600V2        | 1005  | 2600            | Head | 57.3                    | 14.90                            | 59.60                                   | 4.01%         | Aug. 14, 2020 |
| Validation Kit | S/N   | Frequency (MHz) |      | 1W Target SAR-1g (mW/g) | Pin=100mW Measured SAR-1g (mW/g) | Measured SAR-1g normalized to 1W (mW/g) | Deviation (%) | Measured Date |
| D5GHzV2        | 1023  | 5200            | Head | 80.1                    | 8.09                             | 80.90                                   | 1.00%         | Aug. 15, 2020 |
|                |       | 5300            | Head | 82.8                    | 8.34                             | 83.40                                   | 0.72%         | Aug. 15, 2020 |
|                |       | 5600            | Head | 83.1                    | 8.31                             | 83.10                                   | 0.00%         | Aug. 16, 2020 |
|                |       | 5800            | Head | 81.4                    | 8.23                             | 82.30                                   | 1.11%         | Aug. 16, 2020 |

Table 1. Results of system validation

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### 1.11 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was at least 15 cm ( $\leq 3G$ ) or 10 cm ( $> 3G$ ) during all tests. (Appendix Fig. 2)

| Tissue Type | Measurement Date | Measured Frequency (MHz) | Target Dielectric Constant, $\epsilon_r$ | Target Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon_r$ | Measured Conductivity, $\sigma$ (S/m) | % dev $\epsilon_r$ | % dev $\sigma$ |
|-------------|------------------|--------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------|--------------------|----------------|
| Head        | Aug, 09. 2020    | 704                      | 42.181                                   | 0.890                               | 42.559                                     | 0.902                                 | 0.90%              | 1.37%          |
|             |                  | 707.5                    | 42.162                                   | 0.890                               | 42.545                                     | 0.903                                 | 0.91%              | 1.45%          |
|             |                  | 711                      | 42.144                                   | 0.890                               | 42.539                                     | 0.903                                 | 0.94%              | 1.42%          |
|             |                  | 750                      | 41.942                                   | 0.893                               | 42.319                                     | 0.906                                 | 0.90%              | 1.41%          |
|             |                  | 782                      | 41.775                                   | 0.896                               | 42.147                                     | 0.909                                 | 0.89%              | 1.47%          |
|             | Aug, 10. 2020    | 824.2                    | 41.556                                   | 0.899                               | 41.934                                     | 0.910                                 | 0.91%              | 1.21%          |
|             |                  | 826.4                    | 41.545                                   | 0.899                               | 41.922                                     | 0.911                                 | 0.91%              | 1.30%          |
|             |                  | 829                      | 41.531                                   | 0.900                               | 41.905                                     | 0.912                                 | 0.90%              | 1.39%          |
|             |                  | 835                      | 41.500                                   | 0.900                               | 41.894                                     | 0.914                                 | 0.95%              | 1.56%          |
|             |                  | 836.6                    | 41.500                                   | 0.902                               | 41.886                                     | 0.915                                 | 0.93%              | 1.47%          |
|             |                  | 844                      | 41.500                                   | 0.910                               | 41.871                                     | 0.923                                 | 0.89%              | 1.46%          |
|             |                  | 846.6                    | 41.500                                   | 0.912                               | 41.869                                     | 0.926                                 | 0.89%              | 1.48%          |
|             |                  | 848.8                    | 41.500                                   | 0.915                               | 41.865                                     | 0.928                                 | 0.88%              | 1.44%          |
|             | Aug, 11. 2020    | 821.5                    | 41.570                                   | 0.899                               | 41.923                                     | 0.910                                 | 0.85%              | 1.24%          |
|             |                  | 831.5                    | 41.518                                   | 0.900                               | 41.888                                     | 0.912                                 | 0.89%              | 1.36%          |
|             |                  | 835                      | 41.500                                   | 0.900                               | 41.884                                     | 0.913                                 | 0.93%              | 1.44%          |
|             |                  | 836.5                    | 41.500                                   | 0.902                               | 41.878                                     | 0.914                                 | 0.91%              | 1.37%          |
|             |                  | 841.5                    | 41.500                                   | 0.907                               | 41.861                                     | 0.920                                 | 0.87%              | 1.43%          |
|             | Aug, 12. 2020    | 1712.4                   | 40.138                                   | 1.349                               | 40.223                                     | 1.344                                 | 0.21%              | -0.39%         |
|             |                  | 1720                     | 40.126                                   | 1.354                               | 40.211                                     | 1.349                                 | 0.21%              | -0.35%         |
|             |                  | 1732.4                   | 40.107                                   | 1.361                               | 40.175                                     | 1.355                                 | 0.17%              | -0.43%         |
|             |                  | 1732.5                   | 40.107                                   | 1.361                               | 40.173                                     | 1.355                                 | 0.17%              | -0.44%         |
|             |                  | 1745                     | 40.087                                   | 1.368                               | 40.159                                     | 1.363                                 | 0.18%              | -0.38%         |
|             |                  | 1750                     | 40.079                                   | 1.371                               | 40.159                                     | 1.366                                 | 0.20%              | -0.37%         |
|             |                  | 1752.6                   | 40.075                                   | 1.373                               | 40.155                                     | 1.368                                 | 0.20%              | -0.33%         |

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| Tissue Type | Measurement Date | Measured Frequency (MHz) | Target Dielectric Constant, $\epsilon_r$ | Target Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon_r$ | Measured Conductivity, $\sigma$ (S/m) | % dev $\epsilon_r$ | % dev $\sigma$ |
|-------------|------------------|--------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------|--------------------|----------------|
| Head        | Aug, 13. 2020    | 1852.4                   | 40.000                                   | 1.400                               | 40.084                                     | 1.393                                 | 0.21%              | -0.50%         |
|             |                  | 1860                     | 40.000                                   | 1.400                               | 40.080                                     | 1.394                                 | 0.20%              | -0.43%         |
|             |                  | 1880                     | 40.000                                   | 1.400                               | 40.076                                     | 1.395                                 | 0.19%              | -0.36%         |
|             |                  | 1882.5                   | 40.000                                   | 1.400                               | 40.072                                     | 1.396                                 | 0.18%              | -0.29%         |
|             |                  | 1900                     | 40.000                                   | 1.400                               | 40.068                                     | 1.397                                 | 0.17%              | -0.21%         |
|             |                  | 1905                     | 40.000                                   | 1.400                               | 40.064                                     | 1.398                                 | 0.16%              | -0.14%         |
|             |                  | 1907.6                   | 40.000                                   | 1.400                               | 40.060                                     | 1.398                                 | 0.15%              | -0.14%         |
|             | Aug, 27. 2020    | 1850.2                   | 40.000                                   | 1.400                               | 40.092                                     | 1.392                                 | 0.23%              | -0.57%         |
|             |                  | 1880                     | 40.000                                   | 1.400                               | 40.091                                     | 1.394                                 | 0.23%              | -0.43%         |
|             |                  | 1900                     | 40.000                                   | 1.400                               | 40.064                                     | 1.395                                 | 0.16%              | -0.36%         |
|             |                  | 1909.8                   | 40.000                                   | 1.400                               | 40.060                                     | 1.396                                 | 0.15%              | -0.29%         |
|             | Aug, 14. 2020    | 2450                     | 39.200                                   | 1.800                               | 38.959                                     | 1.790                                 | -0.61%             | -0.56%         |
|             |                  | 2462                     | 39.185                                   | 1.813                               | 38.954                                     | 1.805                                 | -0.59%             | -0.45%         |
|             |                  | 2480                     | 39.162                                   | 1.827                               | 38.919                                     | 1.818                                 | -0.62%             | -0.47%         |
|             |                  | 2510                     | 39.124                                   | 1.865                               | 38.897                                     | 1.857                                 | -0.58%             | -0.45%         |
|             |                  | 2535                     | 39.092                                   | 1.893                               | 38.877                                     | 1.883                                 | -0.55%             | -0.51%         |
|             |                  | 2560                     | 39.060                                   | 1.920                               | 38.837                                     | 1.910                                 | -0.57%             | -0.52%         |
|             |                  | 2600                     | 39.009                                   | 1.964                               | 38.763                                     | 1.953                                 | -0.63%             | -0.54%         |
|             | Aug, 15. 2020    | 5200                     | 35.986                                   | 4.655                               | 35.737                                     | 4.608                                 | -0.69%             | -1.01%         |
|             |                  | 5240                     | 35.940                                   | 4.696                               | 35.706                                     | 4.651                                 | -0.65%             | -0.96%         |
|             |                  | 5260                     | 35.917                                   | 4.717                               | 35.651                                     | 4.670                                 | -0.74%             | -0.99%         |
|             |                  | 5300                     | 35.871                                   | 4.758                               | 35.613                                     | 4.710                                 | -0.72%             | -1.00%         |
|             | Aug, 16. 2020    | 5600                     | 35.529                                   | 5.065                               | 35.266                                     | 5.015                                 | -0.74%             | -0.99%         |
|             |                  | 5700                     | 35.414                                   | 5.168                               | 35.149                                     | 5.114                                 | -0.75%             | -1.04%         |
|             |                  | 5745                     | 35.363                                   | 5.214                               | 35.126                                     | 5.164                                 | -0.67%             | -0.95%         |
|             |                  | 5800                     | 35.300                                   | 5.270                               | 35.056                                     | 5.216                                 | -0.69%             | -1.02%         |

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the tissue simulating liquid:

| Frequency<br>(MHz) | Mode | Ingredient |          |        |                  |           |       | Total<br>amount |
|--------------------|------|------------|----------|--------|------------------|-----------|-------|-----------------|
|                    |      | DGMBE      | Water    | Salt   | Preventol<br>D-7 | Cellulose | Sugar |                 |
| 750                | Head | —          | 532.98 g | 18.3 g | 2.4 g            | 3.2 g     | 766 g | 1.3L(Kg)        |
| 850                | Head | —          | 532.98 g | 18.3 g | 2.4 g            | 3.2 g     | 766 g | 1.3L(Kg)        |
| 1750               | Head | 444.52 g   | 552.42 g | 3.06 g | —                | —         | —     | 1.0L(Kg)        |
| 1900               | Head | 444.52 g   | 552.42 g | 3.06 g | —                | —         | —     | 1.0L(Kg)        |
| 2450               | Head | 550 g      | 450 g    | —      | —                | —         | —     | 1.0L(Kg)        |
| 2600               | Head | 550 g      | 450 g    | —      | —                | —         | —     | 1.0L(Kg)        |

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

| Ingredients   | Water | Esters, Emulsifiers, Inhibitors | Sodium and Salt |
|---------------|-------|---------------------------------|-----------------|
| (% by weight) | 60-80 | 20-40                           | 0-1.5           |

Table 3. Recipes for tissue simulating liquid

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## 1.12 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter.

Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

1. Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over a 10 grams of tissue (defined as a tissue volume in the shape of a cube).

Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

2. Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube).

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Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

| Human Exposure                               | Uncontrolled Environment<br>General Population | Controlled Environment<br>Occupational |
|----------------------------------------------|------------------------------------------------|----------------------------------------|
| Spatial Peak SAR<br>(Brain)                  | 1.60 W/kg                                      | 8.00 W/kg                              |
| Spatial Average SAR<br>(Whole Body)          | 0.08 W/kg                                      | 0.40 W/kg                              |
| Spatial Peak SAR<br>(Hands/Feet/Ankle/Wrist) | 4.00 W/kg                                      | 20.00 W/kg                             |

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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## 2. Summary of Results

### 2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.2 Summary of Results

#### GPRS 850

| Mode              | Position    | Distance (mm) | CH  | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|-------------------|-------------|---------------|-----|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|                   |             |               |     |             |                                              |                           |         | Measured                    | Reported |           |
| GPRS 850 <1Dn4Up> | Front side  | 5             | 128 | 824.2       | 30.00                                        | 28.84                     | 130.62% | 0.242                       | 0.316    | -         |
|                   | Back side   | 5             | 128 | 824.2       | 30.00                                        | 28.84                     | 130.62% | 0.664                       | 0.867    | 131       |
|                   | Back side   | 5             | 190 | 836.6       | 30.00                                        | 28.81                     | 131.52% | 0.621                       | 0.817    | -         |
|                   | Back side   | 5             | 251 | 848.8       | 30.00                                        | 28.70                     | 134.90% | 0.624                       | 0.842    | -         |
|                   | Top side    | 5             | 128 | 824.2       | 30.00                                        | 28.84                     | 130.62% | 0.269                       | 0.351    | -         |
|                   | Bottom side | 5             | 128 | 824.2       | 30.00                                        | 28.84                     | 130.62% | 0.014                       | 0.018    | -         |
|                   | Right side  | 5             | 128 | 824.2       | 30.00                                        | 28.84                     | 130.62% | 0.310                       | 0.405    | -         |
|                   | Left side   | 5             | 128 | 824.2       | 30.00                                        | 28.84                     | 130.62% | 0.223                       | 0.291    | -         |

#### GPRS 1900

| Mode               | Position    | Distance (mm) | CH  | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|--------------------|-------------|---------------|-----|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|                    |             |               |     |             |                                              |                           |         | Measured                    | Reported |           |
| GPRS 1900 <1Dn4Up> | Front side  | 5             | 661 | 1880        | 25.50                                        | 24.30                     | 131.83% | 0.433                       | 0.571    | -         |
|                    | Back side   | 5             | 512 | 1850.2      | 25.50                                        | 24.29                     | 132.13% | 0.751                       | 0.992    | 133       |
|                    | Back side   | 5             | 661 | 1880        | 25.50                                        | 24.30                     | 131.83% | 0.713                       | 0.940    | -         |
|                    | Back side   | 5             | 810 | 1909.8      | 25.50                                        | 24.21                     | 134.59% | 0.546                       | 0.735    | -         |
|                    | Top side    | 5             | 661 | 1880        | 25.50                                        | 24.30                     | 131.83% | 0.438                       | 0.577    | -         |
|                    | Bottom side | 5             | 661 | 1880        | 25.50                                        | 24.30                     | 131.83% | 0.030                       | 0.040    | -         |
|                    | Right side  | 5             | 661 | 1880        | 25.50                                        | 24.30                     | 131.83% | 0.167                       | 0.220    | -         |
|                    | Left side   | 5             | 661 | 1880        | 25.50                                        | 24.30                     | 131.83% | 0.140                       | 0.185    | -         |

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### WCDMA Band II

| Band          | Position    | Distance (mm) | CH   | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|---------------|-------------|---------------|------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|               |             |               |      |             |                                              |                           |         | Measured                    | Reported |           |
| WCDMA Band II | Front side  | 5             | 9262 | 1852.4      | 20.5                                         | 19.95                     | 113.50% | 0.261                       | 0.296    | -         |
|               | Back side   | 5             | 9262 | 1852.4      | 20.5                                         | 19.95                     | 113.50% | 0.529                       | 0.600    | 134       |
|               | Back side   | 5             | 9400 | 1880        | 20.5                                         | 19.93                     | 114.02% | 0.511                       | 0.583    | -         |
|               | Back side   | 5             | 9538 | 1907.6      | 20.5                                         | 19.89                     | 115.08% | 0.432                       | 0.497    | -         |
|               | Top side    | 5             | 9262 | 1852.4      | 20.5                                         | 19.95                     | 113.50% | 0.339                       | 0.385    | -         |
|               | Bottom side | 5             | 9262 | 1852.4      | 20.5                                         | 19.95                     | 113.50% | 0.019                       | 0.022    | -         |
|               | Right side  | 5             | 9262 | 1852.4      | 20.5                                         | 19.95                     | 113.50% | 0.095                       | 0.108    | -         |
|               | Left side   | 5             | 9262 | 1852.4      | 20.5                                         | 19.95                     | 113.50% | 0.071                       | 0.081    | -         |

### WCDMA Band IV

| Band          | Position    | Distance (mm) | CH   | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|---------------|-------------|---------------|------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|               |             |               |      |             |                                              |                           |         | Measured                    | Reported |           |
| WCDMA Band IV | Front side  | 5             | 1513 | 1752.6      | 24                                           | 22.20                     | 151.36% | 0.239                       | 0.362    | -         |
|               | Back side   | 5             | 1513 | 1752.6      | 24                                           | 22.20                     | 151.36% | 0.398                       | 0.602    | -         |
|               | Top side    | 5             | 1312 | 1712.4      | 24                                           | 21.77                     | 167.11% | 0.335                       | 0.560    | -         |
|               | Top side    | 5             | 1412 | 1732.4      | 24                                           | 21.99                     | 158.85% | 0.408                       | 0.648    | -         |
|               | Top side    | 5             | 1513 | 1752.6      | 24                                           | 22.20                     | 151.36% | 0.536                       | 0.811    | 135       |
|               | Bottom side | 5             | 1513 | 1752.6      | 24                                           | 22.20                     | 151.36% | 0.004                       | 0.006    | -         |
|               | Right side  | 5             | 1513 | 1752.6      | 24                                           | 22.20                     | 151.36% | 0.022                       | 0.033    | -         |
|               | Left side   | 5             | 1513 | 1752.6      | 24                                           | 22.20                     | 151.36% | 0.082                       | 0.124    | -         |

### WCDMA Band V

| Band         | Position    | Distance (mm) | CH   | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|--------------|-------------|---------------|------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|              |             |               |      |             |                                              |                           |         | Measured                    | Reported |           |
| WCDMA Band V | Front side  | 5             | 4183 | 836.6       | 24                                           | 22.23                     | 150.31% | 0.120                       | 0.180    | -         |
|              | Back side   | 5             | 4132 | 826.4       | 24                                           | 22.16                     | 152.76% | 0.451                       | 0.689    | -         |
|              | Back side   | 5             | 4183 | 836.6       | 24                                           | 22.23                     | 150.31% | 0.445                       | 0.669    | -         |
|              | Back side   | 5             | 4233 | 846.6       | 24                                           | 22.19                     | 151.71% | 0.505                       | 0.766    | 136       |
|              | Top side    | 5             | 4183 | 836.6       | 24                                           | 22.23                     | 150.31% | 0.165                       | 0.248    | -         |
|              | Bottom side | 5             | 4183 | 836.6       | 24                                           | 22.23                     | 150.31% | 0.004                       | 0.006    | -         |
|              | Right side  | 5             | 4183 | 836.6       | 24                                           | 22.23                     | 150.31% | 0.195                       | 0.293    | -         |
|              | Left side   | 5             | 4183 | 836.6       | 24                                           | 22.23                     | 150.31% | 0.063                       | 0.095    | -         |

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## LTE FDD Band 2

| Band       | Bandwidth (MHz) | Modulation | RB Size | RB start | Position    | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|------------|-----------------|------------|---------|----------|-------------|---------------|-------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|            |                 |            |         |          |             |               |       |             |                                              |                           |         | Measured                    | Reported |           |
| LTE Band 2 | 20MHz           | QPSK       | 1 RB    | 0        | Front side  | 5             | 18900 | 1880        | 20.5                                         | 20.35                     | 103.51% | 0.275                       | 0.285    | -         |
|            |                 |            |         |          | Back side   | 5             | 18900 | 1880        | 20.5                                         | 20.35                     | 103.51% | 0.565                       | 0.585    | 137       |
|            |                 |            |         |          | Back side   | 5             | 19100 | 1900        | 20.5                                         | 20.19                     | 107.40% | 0.498                       | 0.535    | -         |
|            |                 |            |         |          | Top side    | 5             | 18900 | 1880        | 20.5                                         | 20.35                     | 103.51% | 0.285                       | 0.295    | -         |
|            |                 |            |         |          | Bottom side | 5             | 18900 | 1880        | 20.5                                         | 20.35                     | 103.51% | 0.019                       | 0.020    | -         |
|            |                 |            |         |          | Right side  | 5             | 18900 | 1880        | 20.5                                         | 20.35                     | 103.51% | 0.104                       | 0.108    | -         |
|            |                 |            |         |          | Left side   | 5             | 18900 | 1880        | 20.5                                         | 20.35                     | 103.51% | 0.085                       | 0.088    | -         |
|            |                 |            |         | 50       | Back side   | 5             | 18700 | 1860        | 20.5                                         | 20.08                     | 110.15% | 0.539                       | 0.594    | -         |
|            |                 |            | 50 RB   | 0        | Front side  | 5             | 18700 | 1860        | 19.5                                         | 19.09                     | 109.90% | 0.214                       | 0.235    | -         |
|            |                 |            |         |          | Back side   | 5             | 18700 | 1860        | 19.5                                         | 19.09                     | 109.90% | 0.477                       | 0.524    | -         |
|            |                 |            |         |          | Top side    | 5             | 18700 | 1860        | 19.5                                         | 19.09                     | 109.90% | 0.231                       | 0.254    | -         |
|            |                 |            |         |          | Bottom side | 5             | 18700 | 1860        | 19.5                                         | 19.09                     | 109.90% | 0.013                       | 0.014    | -         |
|            |                 |            |         |          | Right side  | 5             | 18700 | 1860        | 19.5                                         | 19.09                     | 109.90% | 0.082                       | 0.090    | -         |
|            |                 |            |         |          | Left side   | 5             | 18700 | 1860        | 19.5                                         | 19.09                     | 109.90% | 0.063                       | 0.069    | -         |
|            |                 |            | 100 RB  | 0        | Front side  | 5             | 19100 | 1900        | 19.5                                         | 19.04                     | 111.17% | 0.204                       | 0.227    | -         |
|            |                 |            |         |          | Back side   | 5             | 19100 | 1900        | 19.5                                         | 19.04                     | 111.17% | 0.451                       | 0.501    | -         |
|            |                 |            |         |          | Top side    | 5             | 19100 | 1900        | 19.5                                         | 19.04                     | 111.17% | 0.208                       | 0.231    | -         |
|            |                 |            |         |          | Bottom side | 5             | 19100 | 1900        | 19.5                                         | 19.04                     | 111.17% | 0.012                       | 0.013    | -         |
|            |                 |            |         |          | Right side  | 5             | 19100 | 1900        | 19.5                                         | 19.04                     | 111.17% | 0.085                       | 0.094    | -         |
|            |                 |            |         |          | Left side   | 5             | 19100 | 1900        | 19.5                                         | 19.04                     | 111.17% | 0.056                       | 0.062    | -         |

## LTE FDD Band 4

| Band       | Bandwidth (MHz) | Modulation | RB Size | RB start | Position    | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|------------|-----------------|------------|---------|----------|-------------|---------------|-------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|            |                 |            |         |          |             |               |       |             |                                              |                           |         | Measured                    | Reported |           |
| LTE Band 4 | 20MHz           | QPSK       | 1 RB    | 50       | Back side   | 5             | 20175 | 1732.5      | 24                                           | 22.19                     | 151.71% | 0.433                       | 0.657    | 138       |
|            |                 |            |         |          | Front side  | 5             | 20050 | 1720        | 24                                           | 22.49                     | 141.58% | 0.105                       | 0.149    | -         |
|            |                 |            |         |          | Back side   | 5             | 20050 | 1720        | 24                                           | 22.49                     | 141.58% | 0.421                       | 0.596    | -         |
|            |                 |            |         |          | Top side    | 5             | 20050 | 1720        | 24                                           | 22.49                     | 141.58% | 0.372                       | 0.527    | -         |
|            |                 |            |         |          | Bottom side | 5             | 20050 | 1720        | 24                                           | 22.49                     | 141.58% | 0.002                       | 0.002    | -         |
|            |                 |            |         |          | Right side  | 5             | 20050 | 1720        | 24                                           | 22.49                     | 141.58% | 0.078                       | 0.110    | -         |
|            |                 |            |         |          | Left side   | 5             | 20050 | 1720        | 24                                           | 22.49                     | 141.58% | 0.053                       | 0.075    | -         |
|            |                 |            | 50 RB   | 0        | Back side   | 5             | 20300 | 1745        | 24                                           | 22.44                     | 143.22% | 0.410                       | 0.587    | -         |
|            |                 |            |         |          | Front side  | 5             | 20050 | 1720        | 23                                           | 21.42                     | 143.88% | 0.088                       | 0.127    | -         |
|            |                 |            |         |          | Back side   | 5             | 20050 | 1720        | 23                                           | 21.42                     | 143.88% | 0.347                       | 0.499    | -         |
|            |                 |            |         |          | Top side    | 5             | 20050 | 1720        | 23                                           | 21.42                     | 143.88% | 0.309                       | 0.445    | -         |
|            |                 |            |         |          | Bottom side | 5             | 20050 | 1720        | 23                                           | 21.42                     | 143.88% | 0.001                       | 0.001    | -         |
|            |                 |            |         |          | Right side  | 5             | 20050 | 1720        | 23                                           | 21.42                     | 143.88% | 0.064                       | 0.092    | -         |
|            |                 |            |         |          | Left side   | 5             | 20050 | 1720        | 23                                           | 21.42                     | 143.88% | 0.044                       | 0.063    | -         |
|            |                 |            | 100 RB  | 0        | Front side  | 5             | 20050 | 1720        | 23                                           | 21.33                     | 146.89% | 0.085                       | 0.125    | -         |
|            |                 |            |         |          | Back side   | 5             | 20050 | 1720        | 23                                           | 21.33                     | 146.89% | 0.345                       | 0.507    | -         |
|            |                 |            |         |          | Top side    | 5             | 20050 | 1720        | 23                                           | 21.33                     | 146.89% | 0.303                       | 0.445    | -         |
|            |                 |            |         |          | Bottom side | 5             | 20050 | 1720        | 23                                           | 21.33                     | 146.89% | 0.001                       | 0.001    | -         |
|            |                 |            |         |          | Right side  | 5             | 20050 | 1720        | 23                                           | 21.33                     | 146.89% | 0.063                       | 0.093    | -         |
|            |                 |            |         |          | Left side   | 5             | 20050 | 1720        | 23                                           | 21.33                     | 146.89% | 0.044                       | 0.065    | -         |

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## LTE FDD Band 5

| Band       | Bandwidth<br>(MHz) | Modulation | RB Size | RB start | Position    | Distance<br>(mm) | CH    | Freq.<br>(MHz) | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Measured<br>Avg. Power<br>(dBm) | Scaling | Averaged SAR over 1g<br>(W/kg) |          | Plot<br>page |   |
|------------|--------------------|------------|---------|----------|-------------|------------------|-------|----------------|----------------------------------------------------|---------------------------------|---------|--------------------------------|----------|--------------|---|
|            |                    |            |         |          |             |                  |       |                |                                                    |                                 |         | Measured                       | Reported |              |   |
|            |                    |            |         |          |             |                  |       |                |                                                    |                                 |         |                                |          |              |   |
| LTE Band 5 | 10MHz              | QPSK       | 1 RB    | 0        | Front side  | 5                | 20525 | 836.5          | 24.5                                               | 23.10                           | 138.04% | 0.141                          | 0.195    | -            |   |
|            |                    |            |         |          | Back side   | 5                | 20525 | 836.5          | 24.5                                               | 23.10                           | 138.04% | 0.457                          | 0.631    | -            |   |
|            |                    |            |         |          | Back side   | 5                | 20600 | 844            | 24.5                                               | 22.93                           | 143.55% | 0.491                          | 0.705    | 139          |   |
|            |                    |            |         |          | Top side    | 5                | 20525 | 836.5          | 24.5                                               | 23.10                           | 138.04% | 0.118                          | 0.163    | -            |   |
|            |                    |            |         |          | Bottom side | 5                | 20525 | 836.5          | 24.5                                               | 23.10                           | 138.04% | 0.007                          | 0.009    | -            |   |
|            |                    |            |         |          | Right side  | 5                | 20525 | 836.5          | 24.5                                               | 23.10                           | 138.04% | 0.198                          | 0.273    | -            |   |
|            |                    |            |         |          | Left side   | 5                | 20525 | 836.5          | 24.5                                               | 23.10                           | 138.04% | 0.085                          | 0.117    | -            |   |
|            |                    |            |         | 25       | Back side   | 5                | 20450 | 829            | 24.5                                               | 22.73                           | 150.31% | 0.455                          | 0.684    | -            |   |
|            |                    |            |         |          | 49          | Back side        | 5     | 20450          | 829                                                | 24.5                            | 22.73   | 150.31%                        | 0.472    | 0.709        | - |
|            |                    |            |         | 25 RB    | 0           | Front side       | 5     | 20600          | 844                                                | 23.5                            | 21.93   | 143.55%                        | 0.102    | 0.146        | - |
|            |                    |            |         |          |             | Back side        | 5     | 20600          | 844                                                | 23.5                            | 21.93   | 143.55%                        | 0.332    | 0.477        | - |
|            |                    |            |         |          |             | Top side         | 5     | 20600          | 844                                                | 23.5                            | 21.93   | 143.55%                        | 0.086    | 0.123        | - |
|            |                    |            |         |          |             | Bottom side      | 5     | 20600          | 844                                                | 23.5                            | 21.93   | 143.55%                        | 0.005    | 0.007        | - |
|            |                    |            |         |          |             | Right side       | 5     | 20600          | 844                                                | 23.5                            | 21.93   | 143.55%                        | 0.143    | 0.205        | - |
|            |                    |            |         |          |             | Left side        | 5     | 20600          | 844                                                | 23.5                            | 21.93   | 143.55%                        | 0.061    | 0.088        | - |
|            |                    |            | 50 RB   |          | Front side  | 5                | 20600 | 844            | 23.5                                               | 21.91                           | 144.21% | 0.097                          | 0.140    | -            |   |
|            |                    |            |         |          | Back side   | 5                | 20600 | 844            | 23.5                                               | 21.91                           | 144.21% | 0.322                          | 0.464    | -            |   |
|            |                    |            |         |          | Top side    | 5                | 20600 | 844            | 23.5                                               | 21.91                           | 144.21% | 0.083                          | 0.120    | -            |   |
|            |                    |            |         |          | Bottom side | 5                | 20600 | 844            | 23.5                                               | 21.91                           | 144.21% | 0.005                          | 0.007    | -            |   |
|            |                    |            |         |          | Right side  | 5                | 20600 | 844            | 23.5                                               | 21.91                           | 144.21% | 0.137                          | 0.198    | -            |   |
|            |                    |            |         |          | Left side   | 5                | 20600 | 844            | 23.5                                               | 21.91                           | 144.21% | 0.058                          | 0.084    | -            |   |

## LTE FDD Band 7

| Band       | Bandwidth (MHz) | Modulation | RB Size | RB start | Position    | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|------------|-----------------|------------|---------|----------|-------------|---------------|-------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|            |                 |            |         |          |             |               |       |             |                                              |                           |         | Measured                    | Reported |           |
| LTE Band 7 | 20MHz           | QPSK       | 1 RB    | 0        | Top side    | 5             | 20850 | 2510        | 24.5                                         | 23.39                     | 129.12% | 0.501                       | 0.647    | -         |
|            |                 |            |         |          | Front side  | 5             | 21100 | 2535        | 24.5                                         | 23.55                     | 124.45% | 0.369                       | 0.459    | -         |
|            |                 |            |         |          | Back side   | 5             | 21100 | 2535        | 24.5                                         | 23.55                     | 124.45% | 0.440                       | 0.548    | -         |
|            |                 |            |         |          | Top side    | 5             | 21100 | 2535        | 24.5                                         | 23.55                     | 124.45% | 0.560                       | 0.697    | -         |
|            |                 |            |         |          | Bottom side | 5             | 21100 | 2535        | 24.5                                         | 23.55                     | 124.45% | 0.043                       | 0.054    | -         |
|            |                 |            |         |          | Right side  | 5             | 21100 | 2535        | 24.5                                         | 23.55                     | 124.45% | 0.128                       | 0.159    | -         |
|            |                 |            |         |          | Left side   | 5             | 21100 | 2535        | 24.5                                         | 23.55                     | 124.45% | 0.486                       | 0.605    | -         |
|            |                 |            |         | 99       | Top side    | 5             | 21350 | 2560        | 24.5                                         | 23.49                     | 126.18% | 0.593                       | 0.748    | 140       |
|            |                 |            |         |          | Front side  | 5             | 21350 | 2560        | 23.5                                         | 22.59                     | 123.31% | 0.318                       | 0.392    | -         |
|            |                 |            |         |          | Back side   | 5             | 21350 | 2560        | 23.5                                         | 22.59                     | 123.31% | 0.378                       | 0.466    | -         |
|            |                 |            |         |          | Top side    | 5             | 21350 | 2560        | 23.5                                         | 22.59                     | 123.31% | 0.475                       | 0.586    | -         |
|            |                 |            |         |          | Bottom side | 5             | 21350 | 2560        | 23.5                                         | 22.59                     | 123.31% | 0.037                       | 0.046    | -         |
|            |                 |            |         |          | Right side  | 5             | 21350 | 2560        | 23.5                                         | 22.59                     | 123.31% | 0.109                       | 0.134    | -         |
|            |                 |            | 50 RB   | 0        | Left side   | 5             | 21350 | 2560        | 23.5                                         | 22.59                     | 123.31% | 0.411                       | 0.507    | -         |
|            |                 |            |         |          | Front side  | 5             | 21100 | 2535        | 23.5                                         | 22.42                     | 128.23% | 0.301                       | 0.386    | -         |
|            |                 |            |         |          | Back side   | 5             | 21100 | 2535        | 23.5                                         | 22.42                     | 128.23% | 0.352                       | 0.451    | -         |
|            |                 |            |         |          | Top side    | 5             | 21100 | 2535        | 23.5                                         | 22.42                     | 128.23% | 0.450                       | 0.577    | -         |
|            |                 |            |         |          | Bottom side | 5             | 21100 | 2535        | 23.5                                         | 22.42                     | 128.23% | 0.034                       | 0.044    | -         |
|            |                 |            |         |          | Right side  | 5             | 21100 | 2535        | 23.5                                         | 22.42                     | 128.23% | 0.107                       | 0.137    | -         |
|            |                 |            | 100 RB  |          | Left side   | 5             | 21100 | 2535        | 23.5                                         | 22.42                     | 128.23% | 0.405                       | 0.519    | -         |

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## LTE FDD Band 12

| Band        | Bandwidth (MHz) | Modulation | RB Size | RB start | Position    | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|-------------|-----------------|------------|---------|----------|-------------|---------------|-------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|             |                 |            |         |          |             |               |       |             |                                              |                           |         | Measured                    | Reported |           |
| LTE Band 12 | 10MHz           | QPSK       | 1 RB    | 0        | Front side  | 5             | 23060 | 704         | 23.5                                         | 23.49                     | 100.23% | 0.259                       | 0.260    | -         |
|             |                 |            |         |          | Back side   | 5             | 23060 | 704         | 23.5                                         | 23.49                     | 100.23% | 0.535                       | 0.536    | -         |
|             |                 |            |         |          | Top side    | 5             | 23060 | 704         | 23.5                                         | 23.49                     | 100.23% | 0.014                       | 0.014    | -         |
|             |                 |            |         |          | Bottom side | 5             | 23060 | 704         | 23.5                                         | 23.49                     | 100.23% | 0.011                       | 0.011    | -         |
|             |                 |            |         |          | Right side  | 5             | 23060 | 704         | 23.5                                         | 23.49                     | 100.23% | 0.366                       | 0.367    | -         |
|             |                 |            |         |          | Left side   | 5             | 23060 | 704         | 23.5                                         | 23.49                     | 100.23% | 0.426                       | 0.427    | -         |
|             |                 |            |         | 25       | Back side   | 5             | 23095 | 707.5       | 23.5                                         | 23.34                     | 103.75% | 0.650                       | 0.674    | -         |
|             |                 |            |         |          | Back side   | 5             | 23130 | 711         | 23.5                                         | 23.24                     | 106.17% | 0.683                       | 0.725    | 141       |
|             |                 |            |         |          | Front side  | 5             | 23095 | 707.5       | 22.5                                         | 22.31                     | 104.47% | 0.186                       | 0.194    | -         |
|             |                 |            |         |          | Back side   | 5             | 23095 | 707.5       | 22.5                                         | 22.31                     | 104.47% | 0.383                       | 0.400    | -         |
|             |                 |            | 25 RB   | 12       | Top side    | 5             | 23095 | 707.5       | 22.5                                         | 22.31                     | 104.47% | 0.010                       | 0.010    | -         |
|             |                 |            |         |          | Bottom side | 5             | 23095 | 707.5       | 22.5                                         | 22.31                     | 104.47% | 0.009                       | 0.009    | -         |
|             |                 |            |         |          | Right side  | 5             | 23095 | 707.5       | 22.5                                         | 22.31                     | 104.47% | 0.261                       | 0.273    | -         |
|             |                 |            |         |          | Left side   | 5             | 23095 | 707.5       | 22.5                                         | 22.31                     | 104.47% | 0.309                       | 0.323    | -         |
|             |                 |            |         |          | Front side  | 5             | 23060 | 704         | 22.5                                         | 22.24                     | 106.17% | 0.174                       | 0.185    | -         |
|             |                 |            |         |          | Back side   | 5             | 23060 | 704         | 22.5                                         | 22.24                     | 106.17% | 0.378                       | 0.401    | -         |
|             |                 |            |         | 50 RB    | Top side    | 5             | 23060 | 704         | 22.5                                         | 22.24                     | 106.17% | 0.008                       | 0.009    | -         |
|             |                 |            |         |          | Bottom side | 5             | 23060 | 704         | 22.5                                         | 22.24                     | 106.17% | 0.008                       | 0.009    | -         |
|             |                 |            |         |          | Right side  | 5             | 23060 | 704         | 22.5                                         | 22.24                     | 106.17% | 0.254                       | 0.270    | -         |
|             |                 |            |         |          | Left side   | 5             | 23060 | 704         | 22.5                                         | 22.24                     | 106.17% | 0.307                       | 0.326    | -         |

## LTE FDD Band 13

| Band        | Bandwidth (MHz) | Modulation | RB Size | RB start | Position    | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|-------------|-----------------|------------|---------|----------|-------------|---------------|-------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|             |                 |            |         |          |             |               |       |             |                                              |                           |         | Measured                    | Reported |           |
| LTE Band 13 | 10MHz           | QPSK       | 1 RB    | 0        | Front side  | 5             | 23230 | 782         | 23.5                                         | 23.45                     | 101.16% | 0.315                       | 0.319    | -         |
|             |                 |            |         |          | Back side   | 5             | 23230 | 782         | 23.5                                         | 23.45                     | 101.16% | 0.658                       | 0.666    | 142       |
|             |                 |            |         |          | Top side    | 5             | 23230 | 782         | 23.5                                         | 23.45                     | 101.16% | 0.018                       | 0.018    | -         |
|             |                 |            |         |          | Bottom side | 5             | 23230 | 782         | 23.5                                         | 23.45                     | 101.16% | 0.014                       | 0.014    | -         |
|             |                 |            |         |          | Right side  | 5             | 23230 | 782         | 23.5                                         | 23.45                     | 101.16% | 0.444                       | 0.449    | -         |
|             |                 |            |         |          | Left side   | 5             | 23230 | 782         | 23.5                                         | 23.45                     | 101.16% | 0.518                       | 0.524    | -         |
|             |                 |            |         | 25       | Back side   | 5             | 23230 | 782         | 23.5                                         | 23.24                     | 106.17% | 0.643                       | 0.683    | -         |
|             |                 |            |         |          | Back side   | 5             | 23230 | 782         | 23.5                                         | 23.34                     | 103.75% | 0.629                       | 0.653    | -         |
|             |                 |            | 25 RB   | 0        | Front side  | 5             | 23230 | 782         | 22.5                                         | 22.40                     | 102.33% | 0.234                       | 0.239    | -         |
|             |                 |            |         |          | Back side   | 5             | 23230 | 782         | 22.5                                         | 22.40                     | 102.33% | 0.488                       | 0.499    | -         |
|             |                 |            |         |          | Top side    | 5             | 23230 | 782         | 22.5                                         | 22.40                     | 102.33% | 0.013                       | 0.013    | -         |
|             |                 |            |         |          | Bottom side | 5             | 23230 | 782         | 22.5                                         | 22.40                     | 102.33% | 0.010                       | 0.010    | -         |
|             |                 |            |         |          | Right side  | 5             | 23230 | 782         | 22.5                                         | 22.40                     | 102.33% | 0.335                       | 0.343    | -         |
|             |                 |            |         |          | Left side   | 5             | 23230 | 782         | 22.5                                         | 22.40                     | 102.33% | 0.390                       | 0.399    | -         |
|             |                 |            |         | 50 RB    | Front side  | 5             | 23230 | 782         | 22.5                                         | 22.35                     | 103.51% | 0.225                       | 0.233    | -         |
|             |                 |            |         |          | Back side   | 5             | 23230 | 782         | 22.5                                         | 22.35                     | 103.51% | 0.462                       | 0.478    | -         |
|             |                 |            |         |          | Top side    | 5             | 23230 | 782         | 22.5                                         | 22.35                     | 103.51% | 0.013                       | 0.013    | -         |
|             |                 |            |         |          | Bottom side | 5             | 23230 | 782         | 22.5                                         | 22.35                     | 103.51% | 0.009                       | 0.009    | -         |
|             |                 |            |         | 50 RB    | Right side  | 5             | 23230 | 782         | 22.5                                         | 22.35                     | 103.51% | 0.322                       | 0.333    | -         |
|             |                 |            |         |          | Left side   | 5             | 23230 | 782         | 22.5                                         | 22.35                     | 103.51% | 0.379                       | 0.392    | -         |

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### LTE FDD Band 25

| Band        | Bandwidth (MHz) | Modulation | RB Size | RB start | Position    | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|-------------|-----------------|------------|---------|----------|-------------|---------------|-------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|             |                 |            |         |          |             |               |       |             |                                              |                           |         | Measured                    | Reported |           |
| LTE Band 25 | 20MHz           | QPSK       | 1 RB    | 0        | Back side   | 5             | 26140 | 1860        | 20.5                                         | 20.26                     | 105.68% | 0.581                       | 0.614    | 143       |
|             |                 |            |         |          | Back side   | 5             | 26365 | 1882.5      | 20.5                                         | 20.31                     | 104.47% | 0.541                       | 0.565    | -         |
|             |                 |            |         |          | Front side  | 5             | 26590 | 1905        | 20.5                                         | 20.46                     | 100.93% | 0.171                       | 0.173    | -         |
|             |                 |            |         | 99       | Back side   | 5             | 26590 | 1905        | 20.5                                         | 20.46                     | 100.93% | 0.472                       | 0.476    | -         |
|             |                 |            |         |          | Top side    | 5             | 26590 | 1905        | 20.5                                         | 20.46                     | 100.93% | 0.177                       | 0.179    | -         |
|             |                 |            |         |          | Bottom side | 5             | 26590 | 1905        | 20.5                                         | 20.46                     | 100.93% | 0.011                       | 0.011    | -         |
|             |                 |            |         |          | Right side  | 5             | 26590 | 1905        | 20.5                                         | 20.46                     | 100.93% | 0.088                       | 0.089    | -         |
|             |                 |            |         |          | Left side   | 5             | 26590 | 1905        | 20.5                                         | 20.46                     | 100.93% | 0.099                       | 0.099    | -         |
|             |                 |            |         |          | Front side  | 5             | 26140 | 1860        | 19.5                                         | 19.32                     | 104.23% | 0.142                       | 0.148    | -         |
|             |                 |            | 50 RB   | 50       | Back side   | 5             | 26140 | 1860        | 19.5                                         | 19.32                     | 104.23% | 0.393                       | 0.410    | -         |
|             |                 |            |         |          | Top side    | 5             | 26140 | 1860        | 19.5                                         | 19.32                     | 104.23% | 0.145                       | 0.151    | -         |
|             |                 |            |         |          | Bottom side | 5             | 26140 | 1860        | 19.5                                         | 19.32                     | 104.23% | 0.009                       | 0.009    | -         |
|             |                 |            |         |          | Right side  | 5             | 26140 | 1860        | 19.5                                         | 19.32                     | 104.23% | 0.073                       | 0.076    | -         |
|             |                 |            |         |          | Left side   | 5             | 26140 | 1860        | 19.5                                         | 19.32                     | 104.23% | 0.082                       | 0.085    | -         |
|             |                 |            |         |          | Front side  | 5             | 26140 | 1860        | 19.5                                         | 19.33                     | 103.99% | 0.140                       | 0.146    | -         |
|             |                 |            | 100 RB  |          | Back side   | 5             | 26140 | 1860        | 19.5                                         | 19.33                     | 103.99% | 0.376                       | 0.391    | -         |
|             |                 |            |         |          | Top side    | 5             | 26140 | 1860        | 19.5                                         | 19.33                     | 103.99% | 0.138                       | 0.144    | -         |
|             |                 |            |         |          | Bottom side | 5             | 26140 | 1860        | 19.5                                         | 19.33                     | 103.99% | 0.008                       | 0.008    | -         |
|             |                 |            |         |          | Right side  | 5             | 26140 | 1860        | 19.5                                         | 19.33                     | 103.99% | 0.068                       | 0.071    | -         |
|             |                 |            |         |          | Left side   | 5             | 26140 | 1860        | 19.5                                         | 19.33                     | 103.99% | 0.076                       | 0.079    | -         |

### LTE FDD Band 26

| Band        | Bandwidth (MHz) | Modulation | RB Size | RB start | Position    | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|-------------|-----------------|------------|---------|----------|-------------|---------------|-------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----------|
|             |                 |            |         |          |             |               |       |             |                                              |                           |         | Measured                    | Reported |           |
| LTE Band 26 | 15MHz           | QPSK       | 1 RB    | 0        | Front side  | 5             | 26965 | 841.5       | 24                                           | 23.05                     | 124.45% | 0.243                       | 0.302    | -         |
|             |                 |            |         |          | Back side   | 5             | 26765 | 821.5       | 24                                           | 22.67                     | 135.83% | 0.451                       | 0.613    | -         |
|             |                 |            |         |          | Back side   | 5             | 26965 | 841.5       | 24                                           | 23.05                     | 124.45% | 0.499                       | 0.621    | 144       |
|             |                 |            |         |          | Top side    | 5             | 26965 | 841.5       | 24                                           | 23.05                     | 124.45% | 0.014                       | 0.017    | -         |
|             |                 |            |         |          | Bottom side | 5             | 26965 | 841.5       | 24                                           | 23.05                     | 124.45% | 0.010                       | 0.012    | -         |
|             |                 |            |         |          | Right side  | 5             | 26965 | 841.5       | 24                                           | 23.05                     | 124.45% | 0.341                       | 0.424    | -         |
|             |                 |            |         | 74       | Left side   | 5             | 26965 | 841.5       | 24                                           | 23.05                     | 124.45% | 0.400                       | 0.498    | -         |
|             |                 |            |         |          | Back side   | 5             | 26865 | 831.5       | 24                                           | 22.69                     | 135.21% | 0.497                       | 0.672    | -         |
|             |                 |            | 36 RB   | 18       | Front side  | 5             | 26865 | 831.5       | 23                                           | 21.87                     | 129.72% | 0.189                       | 0.245    | -         |
|             |                 |            |         |          | Back side   | 5             | 26865 | 831.5       | 23                                           | 21.87                     | 129.72% | 0.393                       | 0.510    | -         |
|             |                 |            |         |          | Top side    | 5             | 26865 | 831.5       | 23                                           | 21.87                     | 129.72% | 0.012                       | 0.016    | -         |
|             |                 |            |         |          | Bottom side | 5             | 26865 | 831.5       | 23                                           | 21.87                     | 129.72% | 0.008                       | 0.011    | -         |
|             |                 |            |         |          | Right side  | 5             | 26865 | 831.5       | 23                                           | 21.87                     | 129.72% | 0.270                       | 0.350    | -         |
|             |                 |            |         |          | Left side   | 5             | 26865 | 831.5       | 23                                           | 21.87                     | 129.72% | 0.316                       | 0.410    | -         |
|             |                 |            | 75 RB   |          | Front side  | 5             | 26965 | 841.5       | 23                                           | 21.78                     | 132.43% | 0.180                       | 0.238    | -         |
|             |                 |            |         |          | Back side   | 5             | 26965 | 841.5       | 23                                           | 21.78                     | 132.43% | 0.374                       | 0.495    | -         |
|             |                 |            |         |          | Top side    | 5             | 26965 | 841.5       | 23                                           | 21.78                     | 132.43% | 0.011                       | 0.015    | -         |
|             |                 |            |         |          | Bottom side | 5             | 26965 | 841.5       | 23                                           | 21.78                     | 132.43% | 0.007                       | 0.009    | -         |
|             |                 |            |         |          | Right side  | 5             | 26965 | 841.5       | 23                                           | 21.78                     | 132.43% | 0.263                       | 0.348    | -         |
|             |                 |            |         |          | Left side   | 5             | 26965 | 841.5       | 23                                           | 21.78                     | 132.43% | 0.301                       | 0.399    | -         |

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## WLAN / BT

| Badd                   | Position    | Distance (mm) | CH  | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | duty cycle scaling | power scaling | Averaged SAR over 1g (W/kg) |          | Plot page |
|------------------------|-------------|---------------|-----|-------------|----------------------------------------------|---------------------------|--------------------|---------------|-----------------------------|----------|-----------|
|                        |             |               |     |             |                                              |                           |                    |               | Measured                    | Reported |           |
| WLAN 802.11b           | Front side  | 5             | 11  | 2462        | 12                                           | 11.98                     | 1.026              | 100.46%       | 0.007                       | 0.007    | -         |
|                        | Back side   | 5             | 11  | 2462        | 12                                           | 11.98                     | 1.026              | 100.46%       | 0.495                       | 0.510    | 145       |
|                        | Top side    | 5             | 11  | 2462        | 12                                           | 11.98                     | 1.026              | 100.46%       | 0.007                       | 0.007    | -         |
|                        | Bottom side | 5             | 11  | 2462        | 12                                           | 11.98                     | 1.026              | 100.46%       | 0.001                       | 0.001    | -         |
|                        | Right side  | 5             | 11  | 2462        | 12                                           | 11.98                     | 1.026              | 100.46%       | 0.074                       | 0.076    | -         |
|                        | Left side   | 5             | 11  | 2462        | 12                                           | 11.98                     | 1.026              | 100.46%       | 0.042                       | 0.043    | -         |
| Bluetooth (GFSK)       | Front side  | 5             | 78  | 2480        | 7.61                                         | 6.18                      | 1.302              | 139.11%       | 0.001                       | 0.002    | -         |
|                        | Back side   | 5             | 78  | 2480        | 7.61                                         | 6.18                      | 1.302              | 139.11%       | 0.026                       | 0.047    | 146       |
|                        | Top side    | 5             | 78  | 2480        | 7.61                                         | 6.18                      | 1.302              | 139.11%       | 0.001                       | 0.002    | -         |
|                        | Bottom side | 5             | 78  | 2480        | 7.61                                         | 6.18                      | 1.302              | 139.11%       | 0.001                       | 0.002    | -         |
|                        | Right side  | 5             | 78  | 2480        | 7.61                                         | 6.18                      | 1.302              | 139.11%       | 0.015                       | 0.027    | -         |
|                        | Left side   | 5             | 78  | 2480        | 7.61                                         | 6.18                      | 1.302              | 139.11%       | 0.008                       | 0.015    | -         |
| WLAN 802.11n(20M) 5.2G | Front side  | 5             | 48  | 5240        | 13.8                                         | 13.77                     | 1.157              | 100.69%       | 0.051                       | 0.059    | -         |
|                        | Back side   | 5             | 48  | 5240        | 13.8                                         | 13.77                     | 1.157              | 100.69%       | 0.480                       | 0.559    | 147       |
|                        | Top side    | 5             | 48  | 5240        | 13.8                                         | 13.77                     | 1.157              | 100.69%       | 0.039                       | 0.045    | -         |
|                        | Bottom side | 5             | 48  | 5240        | 13.8                                         | 13.77                     | 1.157              | 100.69%       | 0.016                       | 0.019    | -         |
|                        | Right side  | 5             | 48  | 5240        | 13.8                                         | 13.77                     | 1.157              | 100.69%       | 0.399                       | 0.465    | -         |
|                        | Left side   | 5             | 48  | 5240        | 13.8                                         | 13.77                     | 1.157              | 100.69%       | 0.017                       | 0.020    | -         |
| WLAN 802.11n(20M) 5.3G | Front side  | 5             | 52  | 5260        | 13.91                                        | 13.84                     | 1.157              | 101.62%       | 0.033                       | 0.039    | -         |
|                        | Back side   | 5             | 52  | 5260        | 13.91                                        | 13.84                     | 1.157              | 101.62%       | 0.311                       | 0.366    | 148       |
|                        | Top side    | 5             | 52  | 5260        | 13.91                                        | 13.84                     | 1.157              | 101.62%       | 0.025                       | 0.029    | -         |
|                        | Bottom side | 5             | 52  | 5260        | 13.91                                        | 13.84                     | 1.157              | 101.62%       | 0.010                       | 0.012    | -         |
|                        | Right side  | 5             | 52  | 5260        | 13.91                                        | 13.84                     | 1.157              | 101.62%       | 0.254                       | 0.299    | -         |
|                        | Left side   | 5             | 52  | 5260        | 13.91                                        | 13.84                     | 1.157              | 101.62%       | 0.011                       | 0.013    | -         |
| WLAN 802.11n(20M) 5.6G | Front side  | 5             | 140 | 5700        | 13.15                                        | 13.01                     | 1.157              | 103.28%       | 0.024                       | 0.029    | -         |
|                        | Back side   | 5             | 140 | 5700        | 13.15                                        | 13.01                     | 1.157              | 103.28%       | 0.227                       | 0.271    | 149       |
|                        | Top side    | 5             | 140 | 5700        | 13.15                                        | 13.01                     | 1.157              | 103.28%       | 0.018                       | 0.022    | -         |
|                        | Bottom side | 5             | 140 | 5700        | 13.15                                        | 13.01                     | 1.157              | 103.28%       | 0.009                       | 0.010    | -         |
|                        | Right side  | 5             | 140 | 5700        | 13.15                                        | 13.01                     | 1.157              | 103.28%       | 0.186                       | 0.222    | -         |
|                        | Left side   | 5             | 140 | 5700        | 13.15                                        | 13.01                     | 1.157              | 103.28%       | 0.008                       | 0.010    | -         |
| WLAN 802.11a 5.8G      | Front side  | 5             | 149 | 5745        | 11.96                                        | 11.95                     | 1.147              | 100.23%       | 0.026                       | 0.030    | -         |
|                        | Back side   | 5             | 149 | 5745        | 11.96                                        | 11.95                     | 1.147              | 100.23%       | 0.245                       | 0.282    | 150       |
|                        | Top side    | 5             | 149 | 5745        | 11.96                                        | 11.95                     | 1.147              | 100.23%       | 0.020                       | 0.023    | -         |
|                        | Bottom side | 5             | 149 | 5745        | 11.96                                        | 11.95                     | 1.147              | 100.23%       | 0.008                       | 0.010    | -         |
|                        | Right side  | 5             | 149 | 5745        | 11.96                                        | 11.95                     | 1.147              | 100.23%       | 0.200                       | 0.230    | -         |
|                        | Left side   | 5             | 149 | 5745        | 11.96                                        | 11.95                     | 1.147              | 100.23%       | 0.009                       | 0.011    | -         |

Note:

$$\text{Power scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P_2(\text{mW})}{P_1(\text{mW})} = 10^{\left(\frac{P_2 - P_1}{10}\right)} (\text{dBm})$$

Reported SAR = measured SAR \* Power scaling \* Duty cycle scaling

Where P2 is maximum specified power, P1 is measured conducted power

## 2.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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### 3. Simultaneous Transmission Analysis

#### Simultaneous Transmission Scenarios:

| Simultaneous Transmit Configurations | Body |
|--------------------------------------|------|
| GPRS + 2.4GHz Wi-Fi                  | Yes  |
| WCDMA + 2.4GHz Wi-Fi                 | Yes  |
| LTE + 2.4GHz Wi-Fi                   | Yes  |
| GPRS + 5GHz Wi-Fi                    | Yes  |
| WCDMA + 5GHz Wi-Fi                   | Yes  |
| LTE + 5GHz Wi-Fi                     | Yes  |
| GPRS + BT                            | Yes  |
| WCDMA + BT                           | Yes  |
| LTE + BT                             | Yes  |

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### 3.1 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max.tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

### 3.2 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by  $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and  $R_i$  is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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## Simultaneous Transmission Combination

| reported SAR WWAN and WLAN 2.4GHz, $\Sigma$ SAR evaluation |             |               |                     |       |              |                               |
|------------------------------------------------------------|-------------|---------------|---------------------|-------|--------------|-------------------------------|
| Frequency band                                             | Position    | Distance (mm) | reported SAR / W/kg |       | $\Sigma$ SAR | SPLSR                         |
|                                                            |             |               | WWAN                | WLAN  | <1.6W/kg     |                               |
| GPRS 850 (1Dn4UP)                                          | Front side  | 5             | 0.316               | 0.007 | 0.323        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.867               | 0.510 | 1.377        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.351               | 0.007 | 0.358        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.018               | 0.001 | 0.019        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.405               | 0.076 | 0.481        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.291               | 0.043 | 0.334        | $\Sigma$ SAR<1.6,Not required |
| GPRS 1900 (1Dn4UP)                                         | Front side  | 5             | 0.571               | 0.007 | 0.578        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.992               | 0.510 | 1.502        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.577               | 0.007 | 0.584        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.040               | 0.001 | 0.041        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.220               | 0.076 | 0.296        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.185               | 0.043 | 0.228        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band II                                              | Front side  | 5             | 0.296               | 0.007 | 0.303        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.600               | 0.510 | 1.110        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.385               | 0.007 | 0.392        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.022               | 0.001 | 0.023        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.108               | 0.076 | 0.184        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.081               | 0.043 | 0.124        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band IV                                              | Front side  | 5             | 0.362               | 0.007 | 0.369        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.602               | 0.510 | 1.112        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.811               | 0.007 | 0.818        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.006               | 0.001 | 0.007        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.033               | 0.076 | 0.109        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.124               | 0.043 | 0.167        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band V                                               | Front side  | 5             | 0.180               | 0.007 | 0.187        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.766               | 0.510 | 1.276        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.248               | 0.007 | 0.255        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.006               | 0.001 | 0.007        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.293               | 0.076 | 0.369        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.095               | 0.043 | 0.138        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 2                                                 | Front side  | 5             | 0.285               | 0.007 | 0.292        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.594               | 0.510 | 1.104        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.295               | 0.007 | 0.302        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.020               | 0.001 | 0.021        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.108               | 0.076 | 0.184        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.088               | 0.043 | 0.131        | $\Sigma$ SAR<1.6,Not required |

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| reported SAR WWAN and WLAN 2.4GHz, $\Sigma$ SAR evaluation |             |               |                     |       |              |                               |
|------------------------------------------------------------|-------------|---------------|---------------------|-------|--------------|-------------------------------|
| Frequency band                                             | Position    | Distance (mm) | reported SAR / W/kg |       | $\Sigma$ SAR | SPLSR                         |
|                                                            |             |               | WWAN                | WLAN  | <1.6W/kg     |                               |
| LTE Band 4                                                 | Front side  | 5             | 0.149               | 0.007 | 0.156        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.657               | 0.510 | 1.167        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.527               | 0.007 | 0.534        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.002               | 0.001 | 0.003        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.110               | 0.076 | 0.186        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.075               | 0.043 | 0.118        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 5                                                 | Front side  | 5             | 0.195               | 0.007 | 0.202        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.709               | 0.510 | 1.219        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.163               | 0.007 | 0.170        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.009               | 0.001 | 0.010        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.273               | 0.076 | 0.349        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.117               | 0.043 | 0.160        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 7                                                 | Front side  | 5             | 0.459               | 0.007 | 0.466        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.548               | 0.510 | 1.058        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.748               | 0.007 | 0.755        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.054               | 0.001 | 0.055        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.159               | 0.076 | 0.235        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.605               | 0.043 | 0.648        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 12                                                | Front side  | 5             | 0.260               | 0.007 | 0.267        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.725               | 0.510 | 1.235        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.014               | 0.007 | 0.021        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.011               | 0.001 | 0.012        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.367               | 0.076 | 0.443        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.427               | 0.043 | 0.470        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 13                                                | Front side  | 5             | 0.319               | 0.007 | 0.326        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.683               | 0.510 | 1.193        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.018               | 0.007 | 0.025        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.014               | 0.001 | 0.015        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.449               | 0.076 | 0.525        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.524               | 0.043 | 0.567        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 25                                                | Front side  | 5             | 0.173               | 0.007 | 0.180        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.614               | 0.510 | 1.124        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.179               | 0.007 | 0.186        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.011               | 0.001 | 0.012        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.089               | 0.076 | 0.165        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.099               | 0.043 | 0.142        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 26                                                | Front side  | 5             | 0.302               | 0.007 | 0.309        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Back side   | 5             | 0.672               | 0.510 | 1.182        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Top side    | 5             | 0.017               | 0.007 | 0.024        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Bottom side | 5             | 0.012               | 0.001 | 0.013        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Right side  | 5             | 0.424               | 0.076 | 0.500        | $\Sigma$ SAR<1.6,Not required |
|                                                            | Left side   | 5             | 0.498               | 0.043 | 0.541        | $\Sigma$ SAR<1.6,Not required |

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| reported SAR WWAN and WLAN 5GHz, $\Sigma$ SAR evaluation |             |               |                     |       |              |                               |
|----------------------------------------------------------|-------------|---------------|---------------------|-------|--------------|-------------------------------|
| Frequency band                                           | Position    | Distance (mm) | reported SAR / W/kg |       | $\Sigma$ SAR | SPLSR                         |
|                                                          |             |               | WWAN                | WLAN  | <1.6W/kg     |                               |
| GPRS 850 (1Dn4UP)                                        | Front side  | 5             | 0.316               | 0.059 | 0.375        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.867               | 0.559 | 1.426        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.351               | 0.045 | 0.396        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.018               | 0.019 | 0.037        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.405               | 0.465 | 0.870        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.291               | 0.020 | 0.311        | $\Sigma$ SAR<1.6,Not required |
| GPRS 1900 (1Dn4UP)                                       | Front side  | 5             | 0.571               | 0.059 | 0.630        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.992               | 0.559 | 1.551        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.577               | 0.045 | 0.622        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.040               | 0.019 | 0.059        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.220               | 0.465 | 0.685        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.185               | 0.020 | 0.205        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band II                                            | Front side  | 5             | 0.296               | 0.059 | 0.355        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.600               | 0.559 | 1.159        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.385               | 0.045 | 0.430        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.022               | 0.019 | 0.041        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.108               | 0.465 | 0.573        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.081               | 0.020 | 0.101        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band IV                                            | Front side  | 5             | 0.362               | 0.059 | 0.421        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.602               | 0.559 | 1.161        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.811               | 0.045 | 0.856        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.006               | 0.019 | 0.025        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.033               | 0.465 | 0.498        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.124               | 0.020 | 0.144        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band V                                             | Front side  | 5             | 0.180               | 0.059 | 0.239        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.766               | 0.559 | 1.325        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.248               | 0.045 | 0.293        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.006               | 0.019 | 0.025        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.293               | 0.465 | 0.758        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.095               | 0.020 | 0.115        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 2                                               | Front side  | 5             | 0.285               | 0.059 | 0.344        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.594               | 0.559 | 1.153        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.295               | 0.045 | 0.340        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.020               | 0.019 | 0.039        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.108               | 0.465 | 0.573        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.088               | 0.020 | 0.108        | $\Sigma$ SAR<1.6,Not required |

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| reported SAR WWAN and WLAN 5GHz, $\Sigma$ SAR evaluation |             |               |                     |       |              |                               |
|----------------------------------------------------------|-------------|---------------|---------------------|-------|--------------|-------------------------------|
| Frequency band                                           | Position    | Distance (mm) | reported SAR / W/kg |       | $\Sigma$ SAR | SPLSR                         |
|                                                          |             |               | WWAN                | WLAN  | <1.6W/kg     |                               |
| LTE Band 4                                               | Front side  | 5             | 0.149               | 0.059 | 0.208        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.657               | 0.559 | 1.216        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.527               | 0.045 | 0.572        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.002               | 0.019 | 0.021        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.110               | 0.465 | 0.575        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.075               | 0.020 | 0.095        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 5                                               | Front side  | 5             | 0.195               | 0.059 | 0.254        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.709               | 0.559 | 1.268        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.163               | 0.045 | 0.208        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.009               | 0.019 | 0.028        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.273               | 0.465 | 0.738        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.117               | 0.020 | 0.137        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 7                                               | Front side  | 5             | 0.459               | 0.059 | 0.518        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.548               | 0.559 | 1.107        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.748               | 0.045 | 0.793        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.054               | 0.019 | 0.073        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.159               | 0.465 | 0.624        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.605               | 0.020 | 0.625        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 12                                              | Front side  | 5             | 0.260               | 0.059 | 0.319        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.725               | 0.559 | 1.284        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.014               | 0.045 | 0.059        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.011               | 0.019 | 0.030        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.367               | 0.465 | 0.832        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.427               | 0.020 | 0.447        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 13                                              | Front side  | 5             | 0.319               | 0.059 | 0.378        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.683               | 0.559 | 1.242        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.018               | 0.045 | 0.063        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.014               | 0.019 | 0.033        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.449               | 0.465 | 0.914        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.524               | 0.020 | 0.544        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 25                                              | Front side  | 5             | 0.173               | 0.059 | 0.232        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.614               | 0.559 | 1.173        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.179               | 0.045 | 0.224        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.011               | 0.019 | 0.030        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.089               | 0.465 | 0.554        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.099               | 0.020 | 0.119        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 26                                              | Front side  | 5             | 0.302               | 0.059 | 0.361        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.672               | 0.559 | 1.231        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.017               | 0.045 | 0.062        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.012               | 0.019 | 0.031        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.424               | 0.465 | 0.889        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.498               | 0.020 | 0.518        | $\Sigma$ SAR<1.6,Not required |

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| reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation |             |               |                     |       |              |                               |
|----------------------------------------------------------|-------------|---------------|---------------------|-------|--------------|-------------------------------|
| Frequency band                                           | Position    | Distance (mm) | reported SAR / W/kg |       | $\Sigma$ SAR | SPLSR                         |
|                                                          |             |               | WWAN                | BT    | <1.6W/kg     |                               |
| GPRS 850 (1Dn4UP)                                        | Front side  | 5             | 0.316               | 0.002 | 0.318        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.867               | 0.047 | 0.914        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.351               | 0.002 | 0.353        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.018               | 0.002 | 0.020        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.405               | 0.027 | 0.432        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.291               | 0.015 | 0.306        | $\Sigma$ SAR<1.6,Not required |
| GPRS 1900 (1Dn4UP)                                       | Front side  | 5             | 0.571               | 0.002 | 0.573        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.992               | 0.047 | 1.039        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.577               | 0.002 | 0.579        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.040               | 0.002 | 0.042        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.220               | 0.027 | 0.247        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.185               | 0.015 | 0.200        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band II                                            | Front side  | 5             | 0.296               | 0.002 | 0.298        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.600               | 0.047 | 0.647        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.385               | 0.002 | 0.387        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.022               | 0.002 | 0.024        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.108               | 0.027 | 0.135        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.081               | 0.015 | 0.096        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band IV                                            | Front side  | 5             | 0.362               | 0.002 | 0.364        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.602               | 0.047 | 0.649        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.811               | 0.002 | 0.813        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.006               | 0.002 | 0.008        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.033               | 0.027 | 0.060        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.124               | 0.015 | 0.139        | $\Sigma$ SAR<1.6,Not required |
| WCDMA Band V                                             | Front side  | 5             | 0.180               | 0.002 | 0.182        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.766               | 0.047 | 0.813        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.248               | 0.002 | 0.250        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.006               | 0.002 | 0.008        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.293               | 0.027 | 0.320        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.095               | 0.015 | 0.110        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 2                                               | Front side  | 5             | 0.285               | 0.002 | 0.287        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.594               | 0.047 | 0.641        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.295               | 0.002 | 0.297        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.020               | 0.002 | 0.022        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.108               | 0.027 | 0.135        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.088               | 0.015 | 0.103        | $\Sigma$ SAR<1.6,Not required |

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|----------------------------------------------------------|-------------|---------------|---------------------|-------|--------------|-------------------------------|
| Frequency band                                           | Position    | Distance (mm) | reported SAR / W/kg |       | $\Sigma$ SAR | SPLSR                         |
|                                                          |             |               | WWAN                | BT    | <1.6W/kg     |                               |
| LTE Band 4                                               | Front side  | 5             | 0.149               | 0.002 | 0.151        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.657               | 0.047 | 0.704        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.527               | 0.002 | 0.529        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.002               | 0.002 | 0.004        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.110               | 0.027 | 0.137        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.075               | 0.015 | 0.090        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 5                                               | Front side  | 5             | 0.195               | 0.002 | 0.197        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.709               | 0.047 | 0.756        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.163               | 0.002 | 0.165        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.009               | 0.002 | 0.011        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.273               | 0.027 | 0.300        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.117               | 0.015 | 0.132        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 7                                               | Front side  | 5             | 0.459               | 0.002 | 0.461        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.548               | 0.047 | 0.595        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.748               | 0.002 | 0.750        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.054               | 0.002 | 0.056        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.159               | 0.027 | 0.186        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.605               | 0.015 | 0.620        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 12                                              | Front side  | 5             | 0.260               | 0.002 | 0.262        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.725               | 0.047 | 0.772        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.014               | 0.002 | 0.016        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.011               | 0.002 | 0.013        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.367               | 0.027 | 0.394        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.427               | 0.015 | 0.442        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 13                                              | Front side  | 5             | 0.319               | 0.002 | 0.321        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.683               | 0.047 | 0.730        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.018               | 0.002 | 0.020        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.014               | 0.002 | 0.016        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.449               | 0.027 | 0.476        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.524               | 0.015 | 0.539        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 25                                              | Front side  | 5             | 0.173               | 0.002 | 0.175        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.614               | 0.047 | 0.661        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.179               | 0.002 | 0.181        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.011               | 0.002 | 0.013        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.089               | 0.027 | 0.116        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.099               | 0.015 | 0.114        | $\Sigma$ SAR<1.6,Not required |
| LTE Band 26                                              | Front side  | 5             | 0.302               | 0.002 | 0.304        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Back side   | 5             | 0.672               | 0.047 | 0.719        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Top side    | 5             | 0.017               | 0.002 | 0.019        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Bottom side | 5             | 0.012               | 0.002 | 0.014        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Right side  | 5             | 0.424               | 0.027 | 0.451        | $\Sigma$ SAR<1.6,Not required |
|                                                          | Left side   | 5             | 0.498               | 0.015 | 0.513        | $\Sigma$ SAR<1.6,Not required |

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#### 4. Instruments List

| Manufacturer     | Device                       | Type             | Serial number | Date of last calibration | Date of next calibration |
|------------------|------------------------------|------------------|---------------|--------------------------|--------------------------|
| SPEAG            | Dosimetric E-Field Probe     | EX3DV4           | 3938          | Feb.27,2020              | Feb.26,2021              |
| SPEAG            | System Validation Dipole     | D750V3           | 1015          | Aug.23,2019              | Aug.22,2020              |
|                  |                              | D835V2           | 4d063         | Aug.23,2019              | Aug.22,2020              |
|                  |                              | D1750V2          | 1008          | Aug.23,2019              | Aug.22,2020              |
|                  |                              | D1900V2          | 5d173         | Apr.22,2020              | Apr.21,2021              |
|                  |                              | D2450V2          | 727           | Apr.22,2020              | Apr.21,2021              |
|                  |                              | D2600V2          | 1005          | Jan.29,2020              | Jan.28,2021              |
|                  |                              | D5GHzV2          | 1023          | Jan.28,2020              | Jan.27,2021              |
| SPEAG            | Data acquisition Electronics | DAE4             | 547           | Mar.17,2020              | Mar.16,2021              |
| SPEAG            | Software                     | DASY 52 V52.10.3 | N/A           | Calibration not required | Calibration not required |
| SPEAG            | Phantom                      | SAM              | N/A           | Calibration not required | Calibration not required |
| Network Analyzer | Agilent                      | E5071C           | MY46100433    | Dec.13,2019              | Dec.12,2020              |
| Agilent          | Dielectric Probe Kit         | 85070E           | MY44300677    | Calibration not required | Calibration not required |
| Agilent          | Dual-directional coupler     | 772D             | MY52180142    | Aug.30,2019              | Aug.29,2020              |
|                  |                              | 778D             | MY52180302    | Aug.30,2019              | Aug.29,2020              |
| Agilent          | MXG Analog Signal Generator  | N5181A           | MY50144142    | Dec.12,2019              | Dec.11,2020              |
| Agilent          | Power Meter                  | ML2496A          | 1337004       | Sep.19,2019              | Sep.18,2020              |
| Agilent          | Power Sensor                 | MA2411B          | 1306052       | Sep.19,2019              | Sep.18,2020              |
| TECPEL           | Digital thermometer          | DTM-303A         | TP190085      | Dec.16,2019              | Dec.15,2020              |
| Anritsu          | Radio Communication Test     | MT8820C          | 6201061014    | Dec.08,2019              | Dec.07,2020              |

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## 5. Measurements

Date: 2020/8/10

**Report No. : E5/2020/40007****GPRS 850\_Body\_Back side\_CH 128\_5mm**

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.67

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 41.934$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.822 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.18 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.439 W/kg**

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 68.5%

Maximum value of SAR (measured) = 0.823 W/kg

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.18 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.356 W/kg**

Smallest distance from peaks to all points 3 dB below = 14.5 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 0.828 W/kg

**Zoom Scan (5x5x7)/Cube 2:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.18 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.954 W/kg

**SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.341 W/kg**

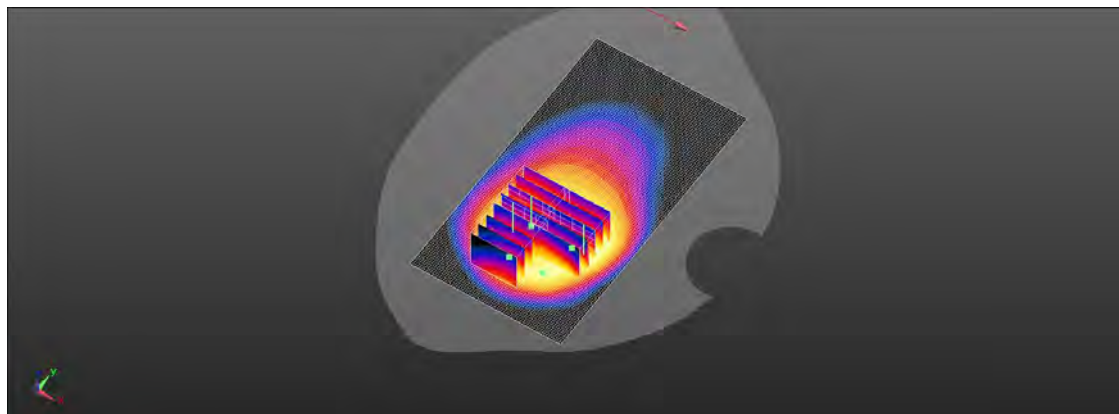
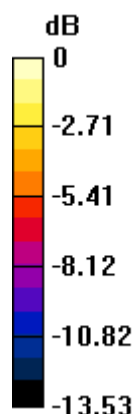
Smallest distance from peaks to all points 3 dB below = 13.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

Maximum value of SAR (measured) = 0.758 W/kg

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0 dB = 0.758 W/kg = -1.20 dBW/kg

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Date: 2020/8/27

**Report No. : E5/2020/40007****GPRS 1900\_Body\_Back side\_CH 512\_5mm**

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.392$  S/m;  $\epsilon_r = 40.092$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.997 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.97 V/m; Power Drift = 0.04 dB

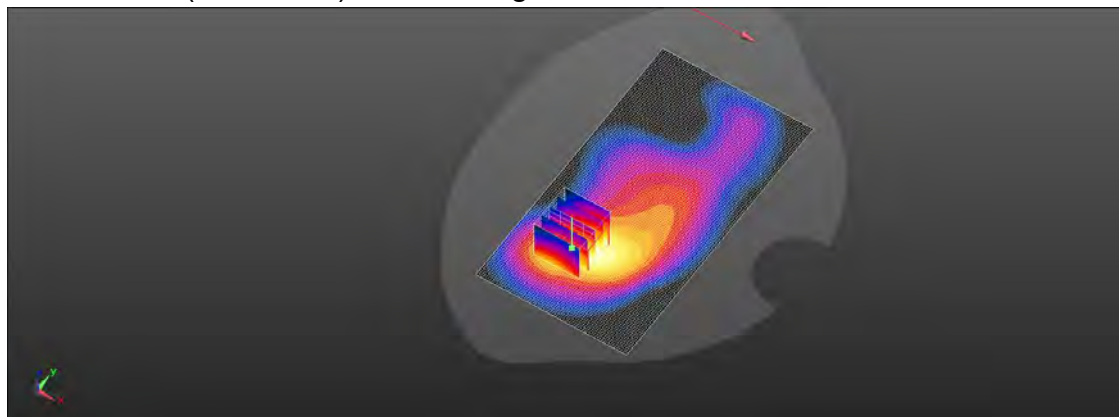
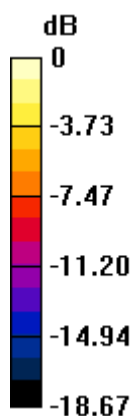
Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.425 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.08 dBW/kg

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Date: 2020/8/13

**Report No. : E5/2020/40007****WCDMA Band II\_Body\_Back side\_CH 9262\_5mm**

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 40.084$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.694 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.916 V/m; Power Drift = 0.02 dB

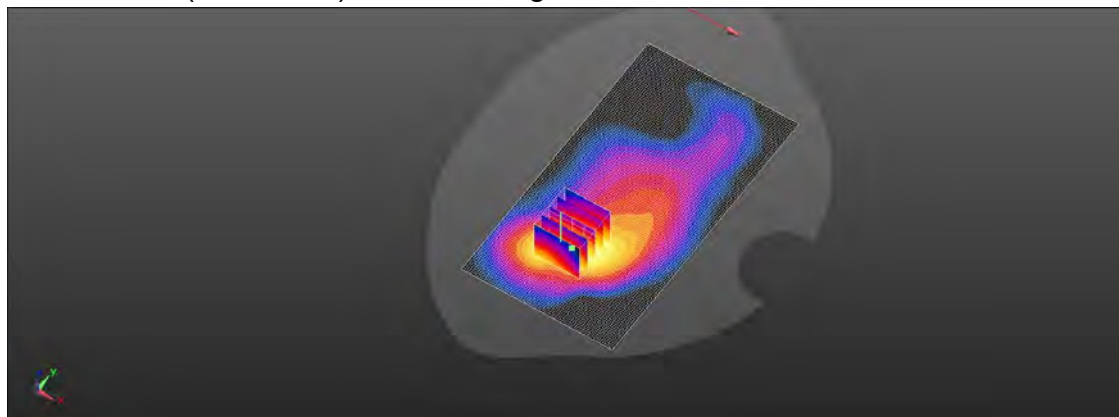
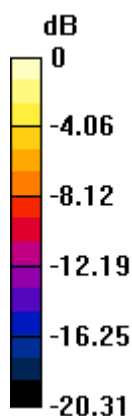
Peak SAR (extrapolated) = 0.968 W/kg

**SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.282 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 0.731 W/kg



0 dB = 0.731 W/kg = -1.36 dBW/kg

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Date: 2020/8/12

**Report No. : E5/2020/40007****WCDMA Band IV\_Body\_Top side\_CH 1513\_5mm**

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.368$  S/m;  $\epsilon_r = 40.155$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.31, 8.31, 8.31); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (41x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.770 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.72 V/m; Power Drift = 0.04 dB

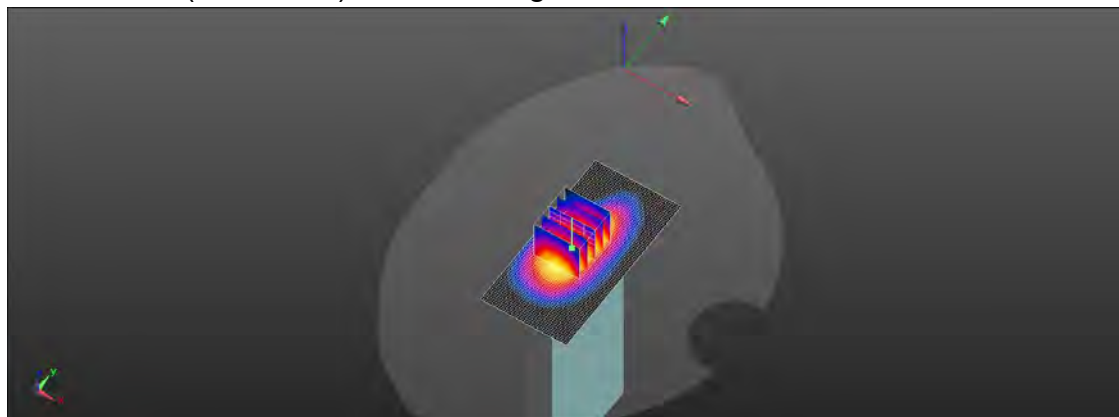
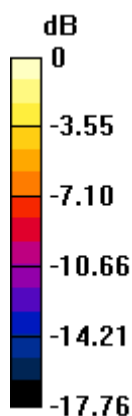
Peak SAR (extrapolated) = 0.932 W/kg

**SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.281 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.752 W/kg



0 dB = 0.752 W/kg = -1.23 dBW/kg

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Date: 2020/8/10

**Report No. : E5/2020/40007**

**WCDMA Band V\_Body\_Back side\_CH 4233\_5mm**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.926$  S/m;  $\epsilon_r = 41.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.603 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.15 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.687 W/kg

**SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.347 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.3 mm

Ratio of SAR at M2 to SAR at M1 = 74.4%

Maximum value of SAR (measured) = 0.604 W/kg

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.15 V/m; Power Drift = -0.04 dB

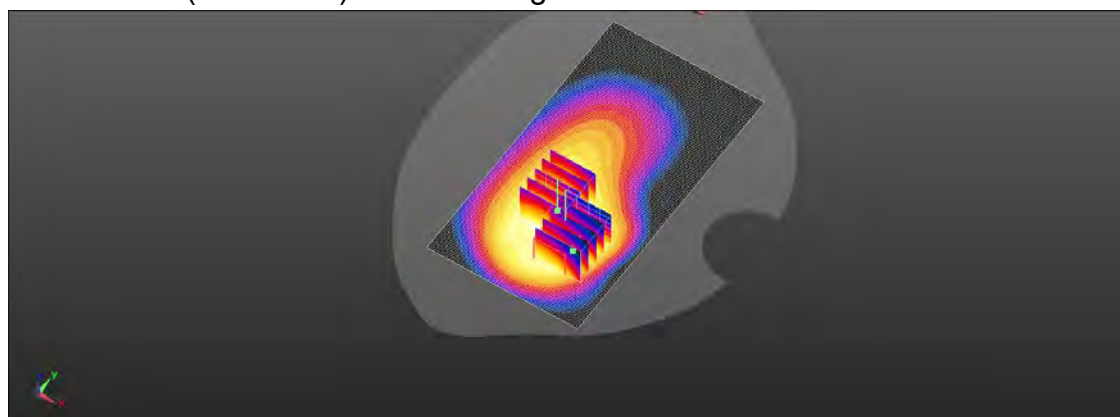
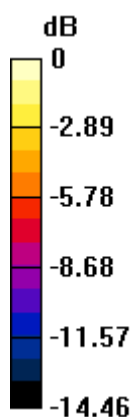
Peak SAR (extrapolated) = 0.669 W/kg

**SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.247 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.1 mm

Ratio of SAR at M2 to SAR at M1 = 69%

Maximum value of SAR (measured) = 0.570 W/kg



0 dB = 0.570 W/kg = -2.44 dBW/kg

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Date: 2020/8/13

**Report No. : E5/2020/40007****LTE Band 2 (20MHz)\_Body\_Back side\_CH 18900\_QPSK\_1-0\_5mm**

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.395$  S/m;  $\epsilon_r = 40.076$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.776 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.388 V/m; Power Drift = 0.03 dB

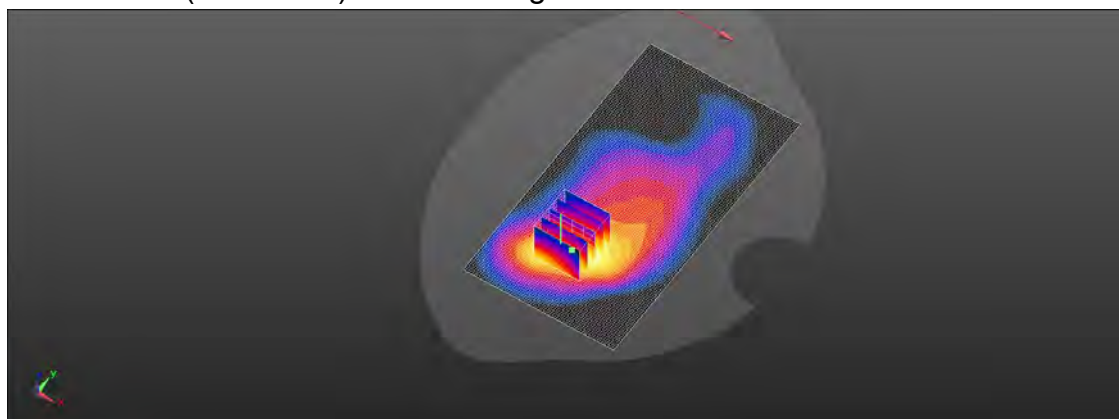
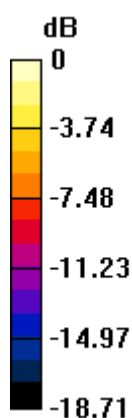
Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.300 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 0.749 W/kg



0 dB = 0.749 W/kg = -1.25 dBW/kg

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Date: 2020/8/12

**Report No. : E5/2020/40007****LTE Band 4 (20MHz)\_Body\_Back side\_CH 20175\_QPSK\_1-0\_5mm**

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1732.5$  MHz;  $\sigma = 1.355$  S/m;  $\epsilon_r = 40.173$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.31, 8.31, 8.31); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.549 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.701 V/m; Power Drift = -0.07 dB

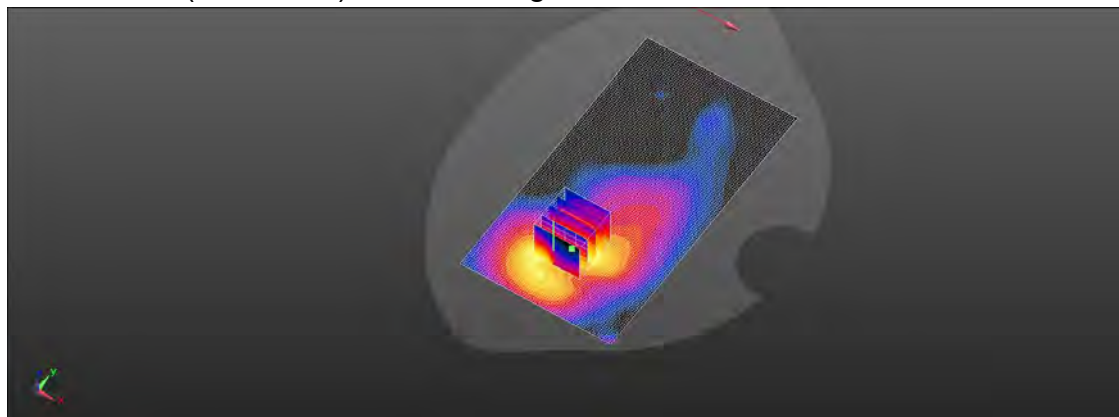
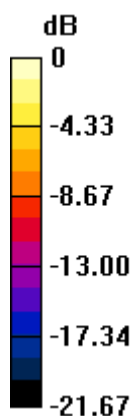
Peak SAR (extrapolated) = 0.959 W/kg

**SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.203 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 0.718 W/kg



0 dB = 0.718 W/kg = -1.44 dBW/kg

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Date: 2020/8/10

**Report No. : E5/2020/40007****LTE Band 5 (10MHz)\_Body\_Back side\_CH 20600\_QPSK\_1-0\_5mm**

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.923 \text{ S/m}$ ;  $\epsilon_r = 41.871$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.599 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 14.94 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.663 W/kg

**SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.336 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 75.4%

Maximum value of SAR (measured) = 0.582 W/kg

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 14.94 V/m; Power Drift = -0.05 dB

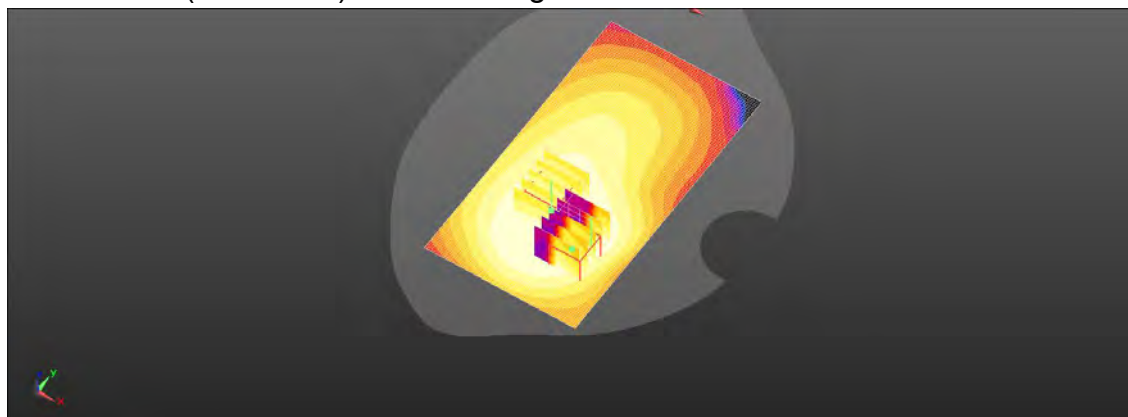
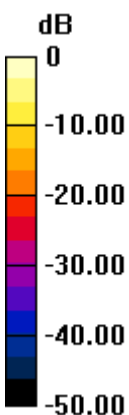
Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.178 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 64.8%

Maximum value of SAR (measured) = 0.499 W/kg



0 dB = 0.499 W/kg = -3.02 dBW/kg

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Date: 2020/8/14

**Report No. : E5/2020/40007****LTE Band 7 (20MHz)\_Body\_Top side\_CH 21350\_QPSK\_1-99\_5mm**

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2560$  MHz;  $\sigma = 1.91$  S/m;  $\epsilon_r = 38.837$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.923 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.74 V/m; Power Drift = 0.04 dB

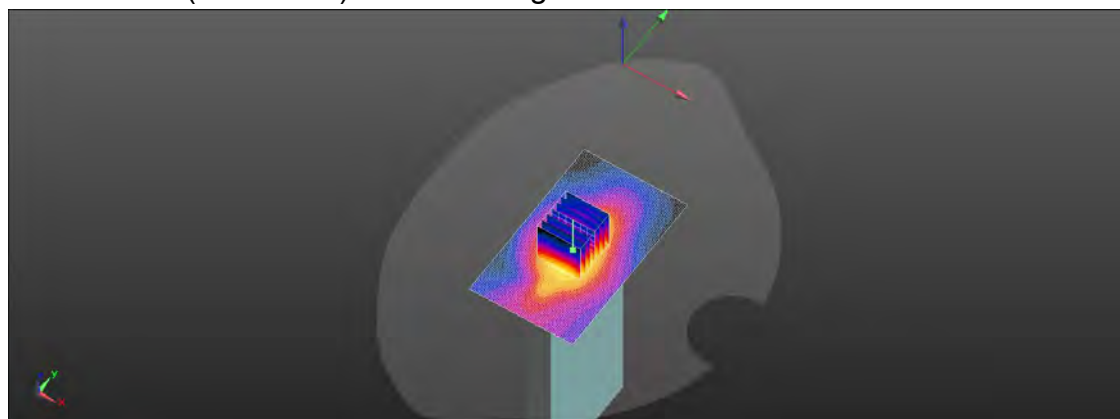
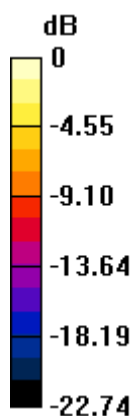
Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.261 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.958 W/kg



0 dB = 0.958 W/kg = -0.19 dBW/kg

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Date: 2020/8/9

**Report No. : E5/2020/40007****LTE Band 12 (10MHz)\_Body\_Back side\_CH 23130\_QPSK\_1-25\_5mm**

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711 \text{ MHz}$ ;  $\sigma = 0.903 \text{ S/m}$ ;  $\epsilon_r = 42.539$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.72, 9.72, 9.72); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.765 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 30.65 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.871 W/kg

**SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.518 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 78.6%

Maximum value of SAR (measured) = 0.785 W/kg

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 30.65 V/m; Power Drift = -0.07 dB

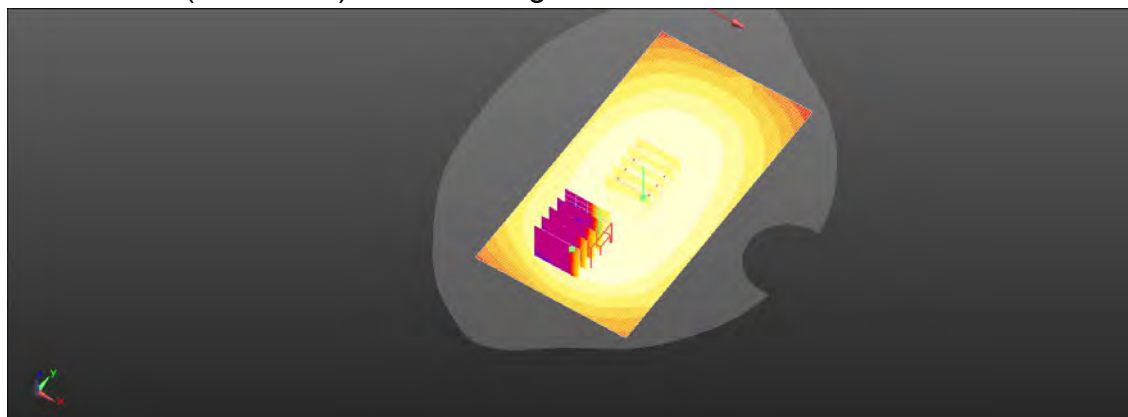
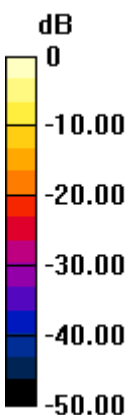
Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.040 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 0.546 W/kg



0 dB = 0.546 W/kg = -2.63 dBW/kg

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Date: 2020/8/9

**Report No. : E5/2020/40007**

**LTE Band 13 (10MHz)\_Body\_Back side\_CH 23230\_QPSK\_1-0\_5mm**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.909 \text{ S/m}$ ;  $\epsilon_r = 42.147$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.72, 9.72, 9.72); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.859 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 24.47 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.373 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.922 W/kg

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 24.47 V/m; Power Drift = -0.04 dB

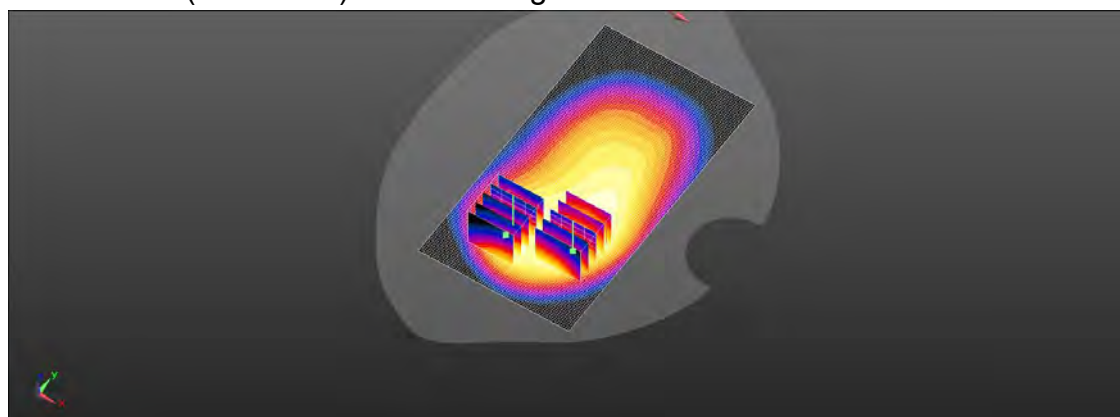
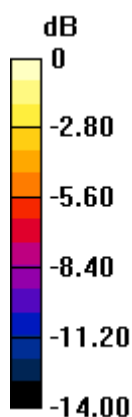
Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.420 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 63.5%

Maximum value of SAR (measured) = 0.807 W/kg



0 dB = 0.807 W/kg = -0.93 dBW/kg

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Date: 2020/8/13

**Report No. : E5/2020/40007****LTE Band 25 (20MHz)\_Body\_Back side\_CH 26140\_QPSK\_1-0\_5mm**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.394$  S/m;  $\epsilon_r = 40.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.736 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.593 V/m; Power Drift = -0.01 dB

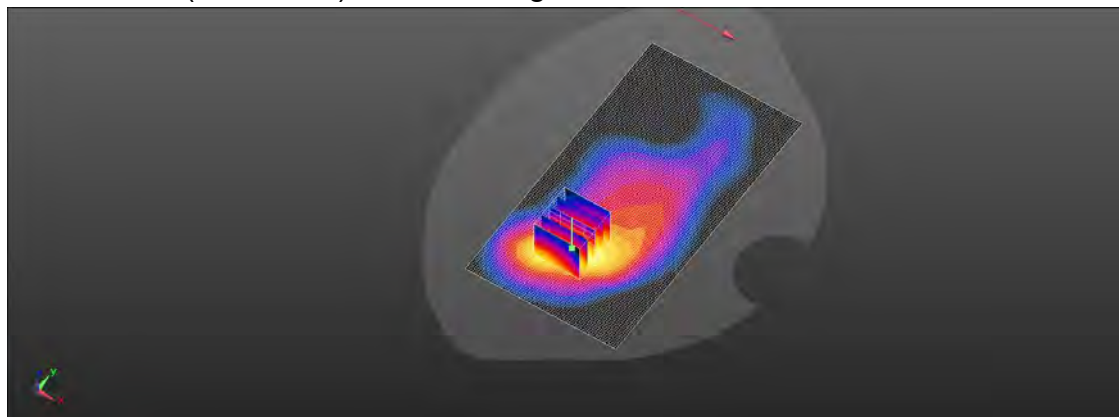
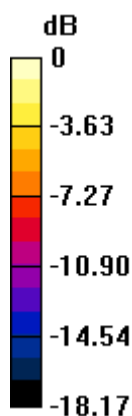
Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.305 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.6mm

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 0.759 W/kg



0 dB = 0.759 W/kg = -1.20 dBW/kg

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Date: 2020/8/11

**Report No. : E5/2020/40007****LTE Band 26 (15MHz)\_Body\_Back side\_CH 26965\_QPSK\_1-0\_5mm**

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 841.5$  MHz;  $\sigma = 0.92$  S/m;  $\epsilon_r = 41.861$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.591 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.40 V/m; Power Drift = -0.06 dB

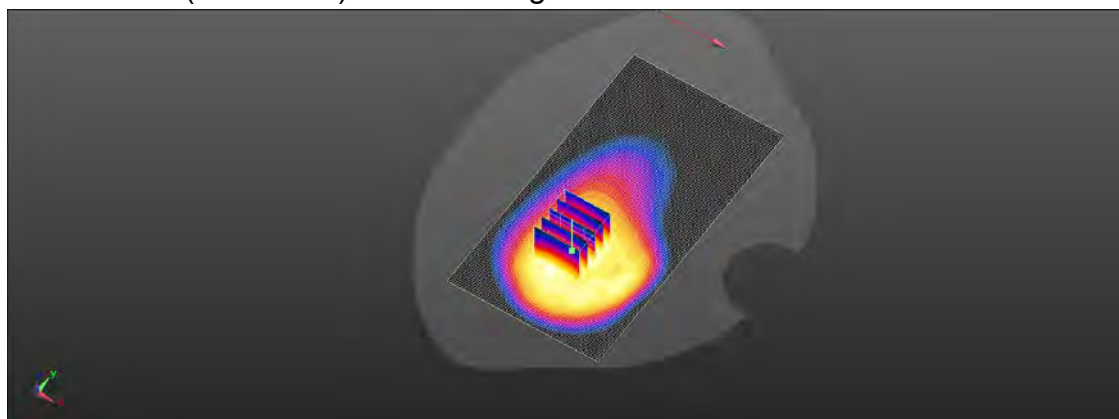
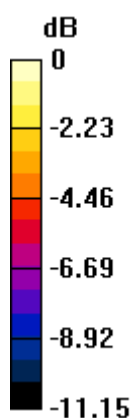
Peak SAR (extrapolated) = 0.683 W/kg

**SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.343 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.3mm

Ratio of SAR at M2 to SAR at M1 = 73.1%

Maximum value of SAR (measured) = 0.599 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

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Date: 2020/8/14

**Report No. : E5/2020/40007****WLAN 802.11b\_Body\_Back side\_CH 11\_5mm**

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty Cycle: 1:0.975

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.805$  S/m;  $\epsilon_r = 38.954$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (81x161x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.74 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.432 V/m; Power Drift = 0.05 dB

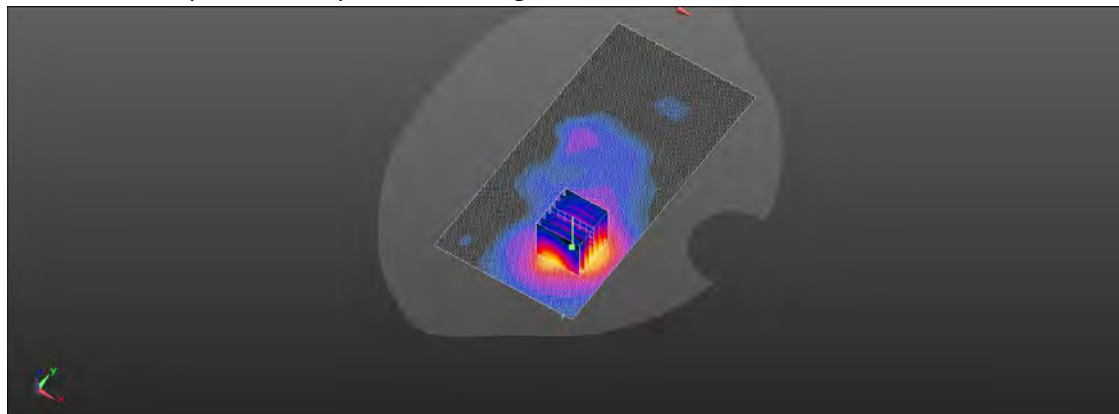
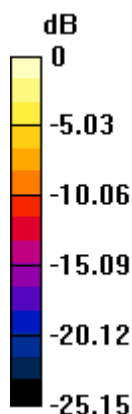
Peak SAR (extrapolated) = 3.00 W/kg

**SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.183 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 42.6%

Maximum value of SAR (measured) = 2.02 W/kg



0 dB = 2.02 W/kg = 3.04 dBW/kg

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Date: 2020/8/14

**Report No. : E5/2020/40007****Bluetooth(GFSK)\_Body\_Back side\_CH 78\_5mm**

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:0.768

Medium parameters used:  $f = 2480$  MHz;  $\sigma = 1.818$  S/m;  $\epsilon_r = 38.919$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (81x161x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.056 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.2520 V/m; Power Drift = 0.01 dB

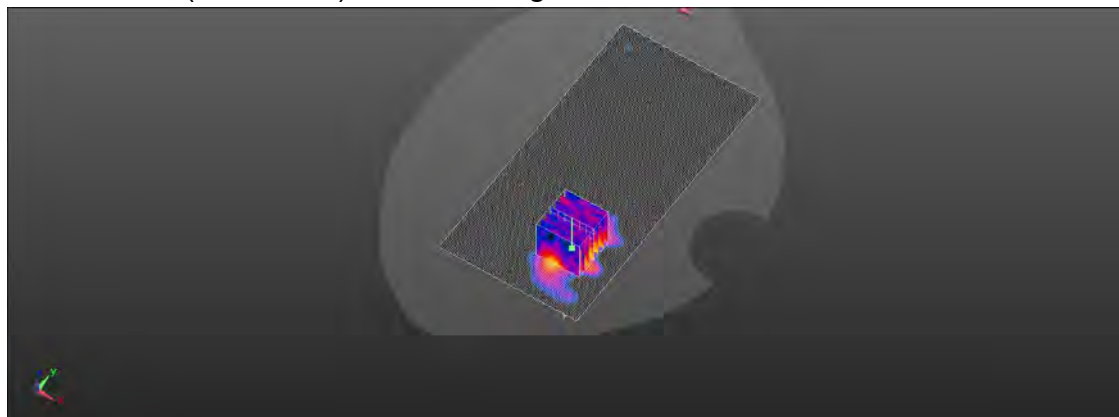
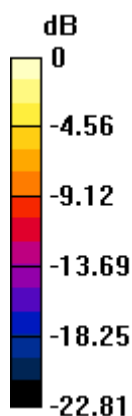
Peak SAR (extrapolated) = 0.064 W/kg

**SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.011 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 41.9%

Maximum value of SAR (measured) = 0.045 W/kg



0 dB = 0.045 W/kg = -26.9 dBW/kg

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Date: 2020/8/15

**Report No. : E5/2020/40007****WLAN 802.11n(20M) 5.2G\_Body\_Back side\_CH 48\_5mm**

Communication System: WLAN 5G; Frequency: 5240 MHz; Duty Cycle: 1:0.864

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.651$  S/m;  $\epsilon_r = 35.706$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (111x191x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.825 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.014 V/m; Power Drift = 0.02 dB

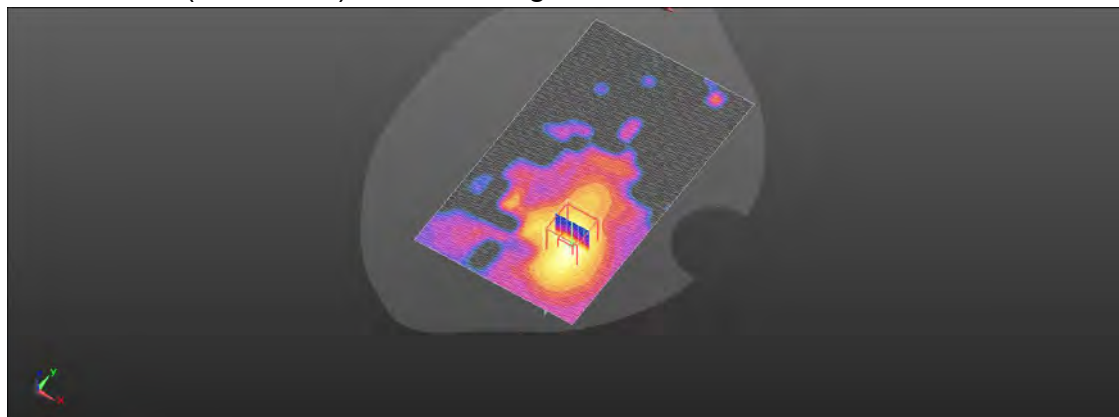
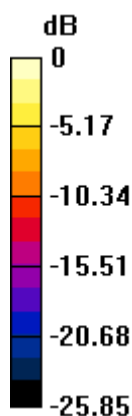
Peak SAR (extrapolated) = 1.98 W/kg

**SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.159 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 0.916 W/kg



0 dB = 0.916 W/kg = -0.38 dBW/kg

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Date: 2020/8/15

**Report No. : E5/2020/40007****WLAN 802.11n(20M) 5.3G\_Body\_Back side\_CH 52\_5mm**

Communication System: WLAN 5G; Frequency: 5260 MHz; Duty Cycle: 1:0.864

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.67$  S/m;  $\epsilon_r = 35.651$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (101x191x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.607 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.468 V/m; Power Drift = -0.03 dB

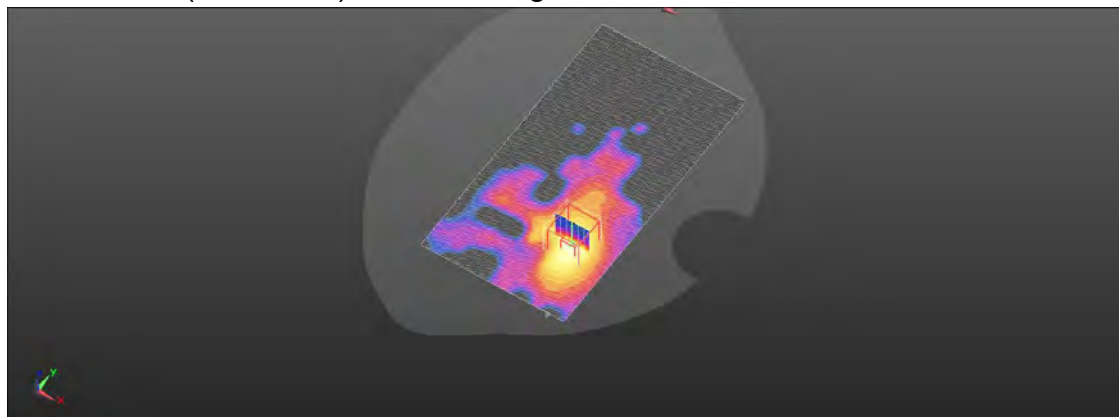
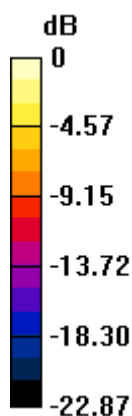
Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.100 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 0.627 W/kg



0 dB = 0.627 W/kg = -2.03 dBW/kg

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Date: 2020/8/16

**Report No. : E5/2020/40007****WLAN 802.11n(20M) 5.6G\_Body\_Back side\_CH 140\_5mm**

Communication System: WLAN 5G; Frequency: 5700 MHz; Duty Cycle: 1:0.864

Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.114$  S/m;  $\epsilon_r = 35.149$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (101x191x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.497 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.6900 V/m; Power Drift = 0.01 dB

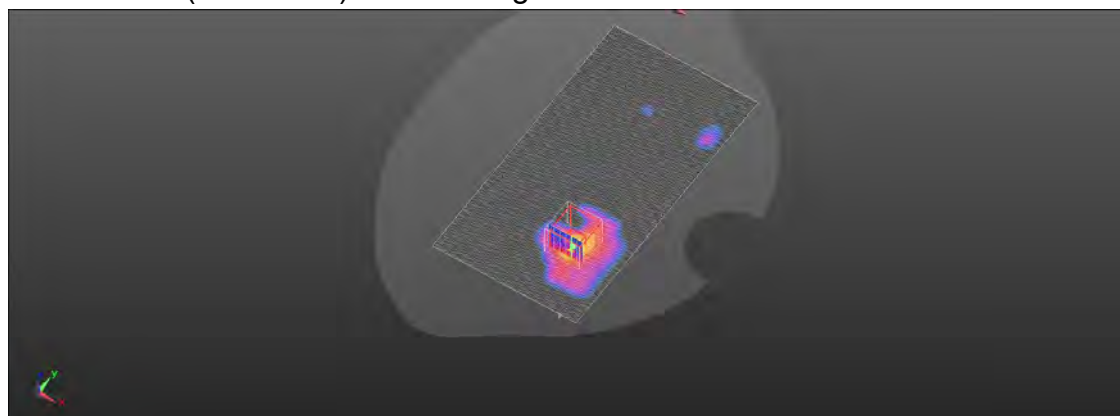
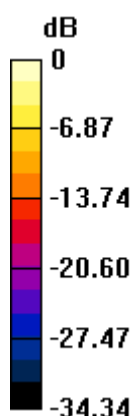
Peak SAR (extrapolated) = 3.50 W/kg

**SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.064 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 3.50 W/kg



0 dB = 3.50 W/kg = 5.43 dBW/kg

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Date: 2020/8/16

**Report No. : E5/2020/40007**

**WLAN 802.11a 5.8G\_Body\_Back side\_CH 149\_5mm**

Communication System: WLAN 5G; Frequency: 5745 MHz; Duty Cycle: 1:0.872

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.164 \text{ S/m}$ ;  $\epsilon_r = 35.126$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.1^\circ\text{C}$ ; Liquid temperature:  $21.9^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.75, 4.75, 4.75); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (101x191x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.552 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value =  $0.4450 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$

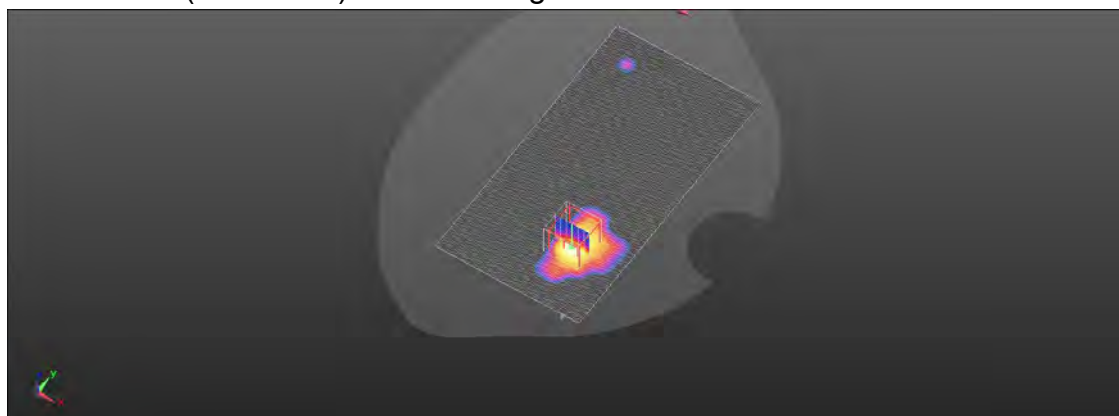
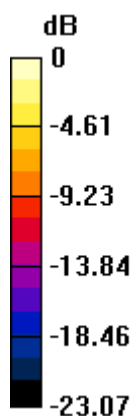
Peak SAR (extrapolated) =  $1.04 \text{ W/kg}$

**SAR(1 g) =  $0.245 \text{ W/kg}$ ; SAR(10 g) =  $0.067 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $7.7 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $49.1\%$

Maximum value of SAR (measured) =  $0.533 \text{ W/kg}$



0 dB =  $0.533 \text{ W/kg}$  =  $-2.73 \text{ dBW/kg}$

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## 6. SAR System Performance Verification

Date: 2020/8/9

Report No. : E5/2020/40007

Dipole 750 MHz\_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.906 \text{ S/m}$ ;  $\epsilon_r = 42.319$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.72, 9.72, 9.72); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (41x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 2.79 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 53.26 V/m; Power Drift = 0.04 dB

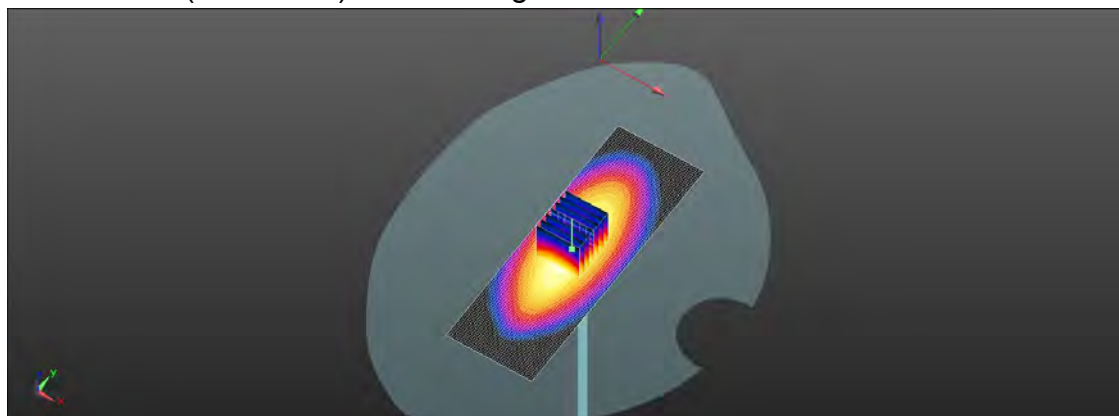
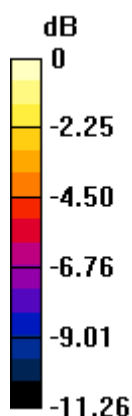
Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.39 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 64.7%

Maximum value of SAR (measured) = 2.82 W/kg



0 dB = 2.82 W/kg = 4.51 dBW/kg

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Date: 2020/8/10

**Report No. : E5/2020/40007****Dipole 835 MHz\_SN: 4d063**

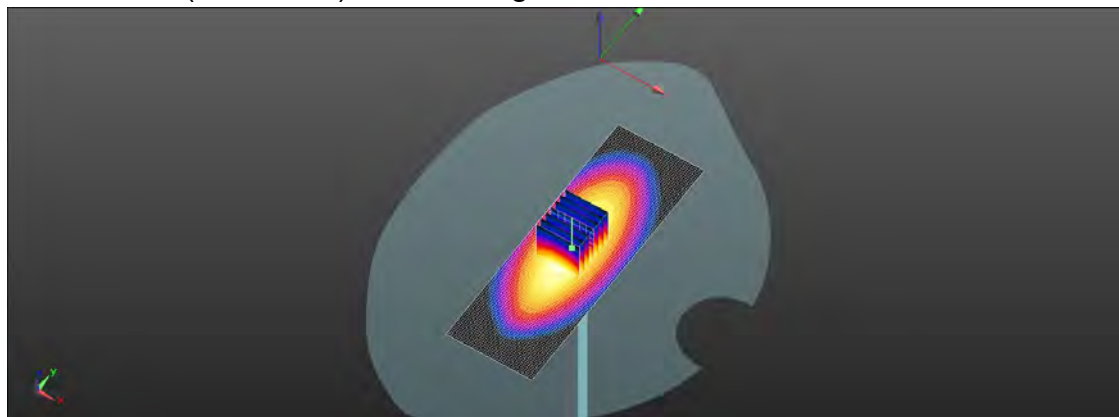
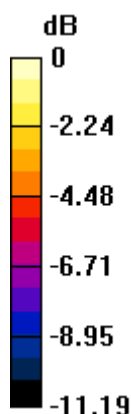
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.914 \text{ S/m}$ ;  $\epsilon_r = 41.894$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature:  $22.2^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$ **DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (41x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ Maximum value of SAR (interpolated) =  $3.06 \text{ W/kg}$ **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $57.28 \text{ V/m}$ ; Power Drift =  $-0.02 \text{ dB}$ Peak SAR (extrapolated) =  $3.65 \text{ W/kg}$ **SAR(1 g) =  $2.42 \text{ W/kg}$ ; SAR(10 g) =  $1.56 \text{ W/kg}$** Smallest distance from peaks to all points 3 dB below =  $12.7 \text{ mm}$ Ratio of SAR at M2 to SAR at M1 =  $68.2\%$ Maximum value of SAR (measured) =  $3.09 \text{ W/kg}$  $0 \text{ dB} = 3.09 \text{ W/kg} = 4.90 \text{ dBW/kg}$ 

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Date: 2020/8/11

**Report No. : E5/2020/40007****Dipole 835 MHz\_SN: 4d063**

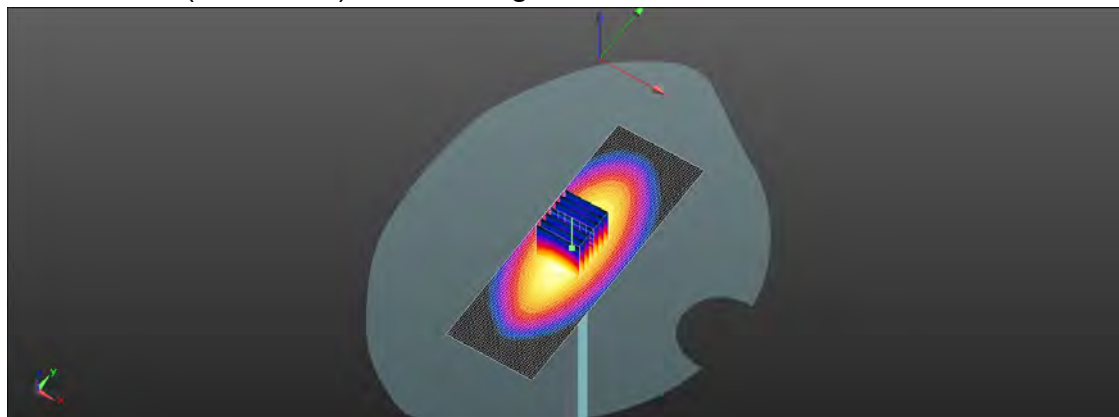
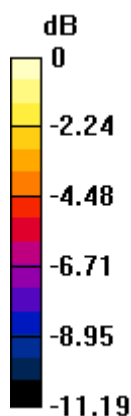
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.913 \text{ S/m}$ ;  $\epsilon_r = 41.884$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature:  $22.2^\circ\text{C}$ ; Liquid temperature:  $21.9^\circ\text{C}$ **DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (41x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ Maximum value of SAR (interpolated) =  $3.11 \text{ W/kg}$ **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $55.31 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$ Peak SAR (extrapolated) =  $3.69 \text{ W/kg}$ **SAR(1 g) =  $2.44 \text{ W/kg}$ ; SAR(10 g) =  $1.57 \text{ W/kg}$** Smallest distance from peaks to all points 3 dB below =  $12.4 \text{ mm}$ Ratio of SAR at M2 to SAR at M1 =  $65.9\%$ Maximum value of SAR (measured) =  $3.11 \text{ W/kg}$  $0 \text{ dB} = 3.11 \text{ W/kg} = 4.99 \text{ dBW/kg}$ 

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Date: 2020/8/12

**Report No. : E5/2020/40007****Dipole 1750 MHz\_SN:1008**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.366$  S/m;  $\epsilon_r = 40.159$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(8.31, 8.31, 8.31); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.57 V/m; Power Drift = -0.04 dB

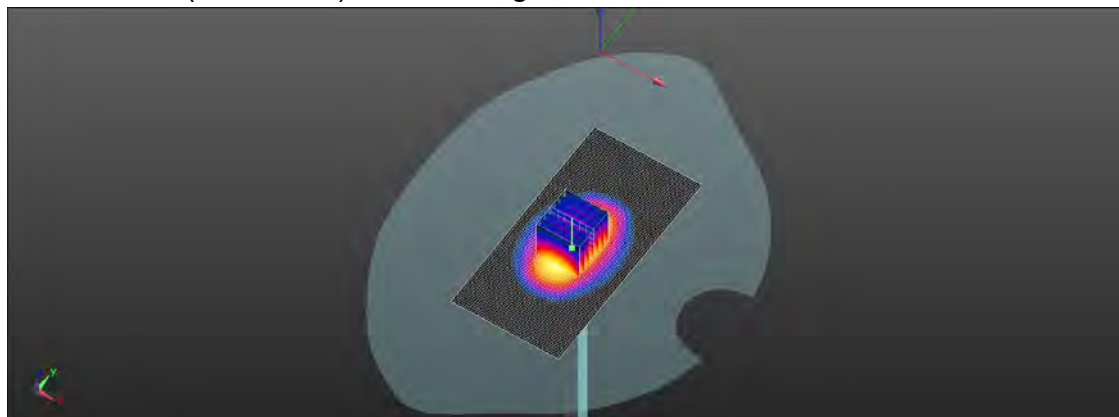
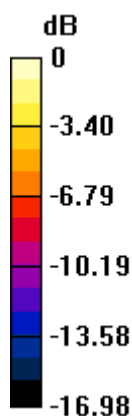
Peak SAR (extrapolated) = 17.5 W/kg

**SAR(1 g) = 9.24 W/kg; SAR(10 g) = 4.85 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg = 11.34 dBW/kg

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Date: 2020/8/13

**Report No. : E5/2020/40007****Dipole 1900 MHz\_SN: 5d173**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.397$  S/m;  $\epsilon_r = 40.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (41x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.19 V/m; Power Drift = -0.01 dB

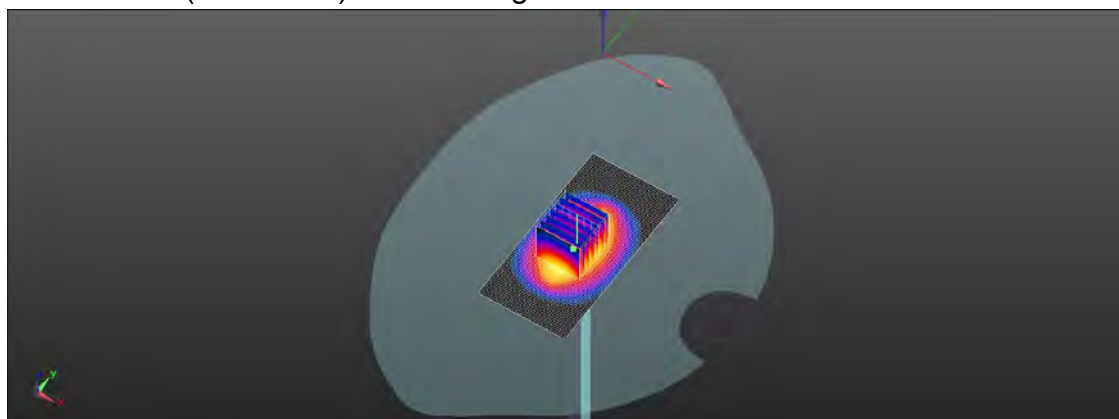
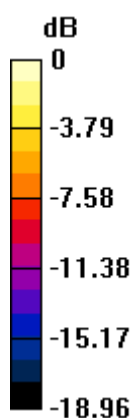
Peak SAR (extrapolated) = 23.0 W/kg

**SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.08 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg = 12.47 dBW/kg

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Date: 2020/8/27

**Report No. : E5/2020/40007****Dipole 1900 MHz\_SN: 5d173**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.395$  S/m;  $\epsilon_r = 40.064$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (41x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 17.5 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 79.93 V/m; Power Drift = -0.03 dB

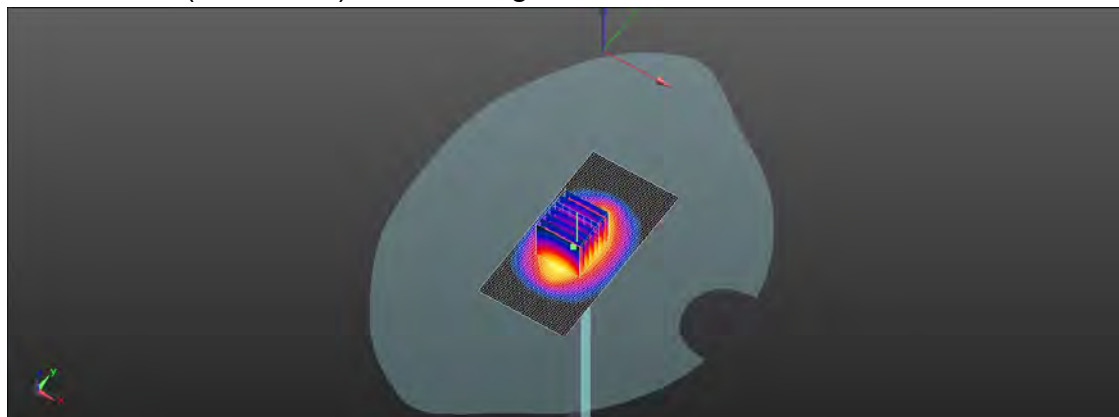
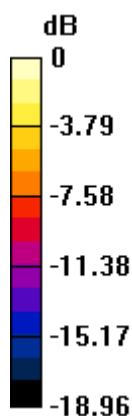
Peak SAR (extrapolated) = 22.4 W/kg

**SAR(1 g) = 9.79 W/kg; SAR(10 g) = 5.05 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.01 dBW/kg

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Date: 2020/8/14

**Report No. : E5/2020/40007****Dipole 2450 MHz\_SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.79$  S/m;  $\epsilon_r = 38.959$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 30.0 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.05 V/m; Power Drift = -0.05 dB

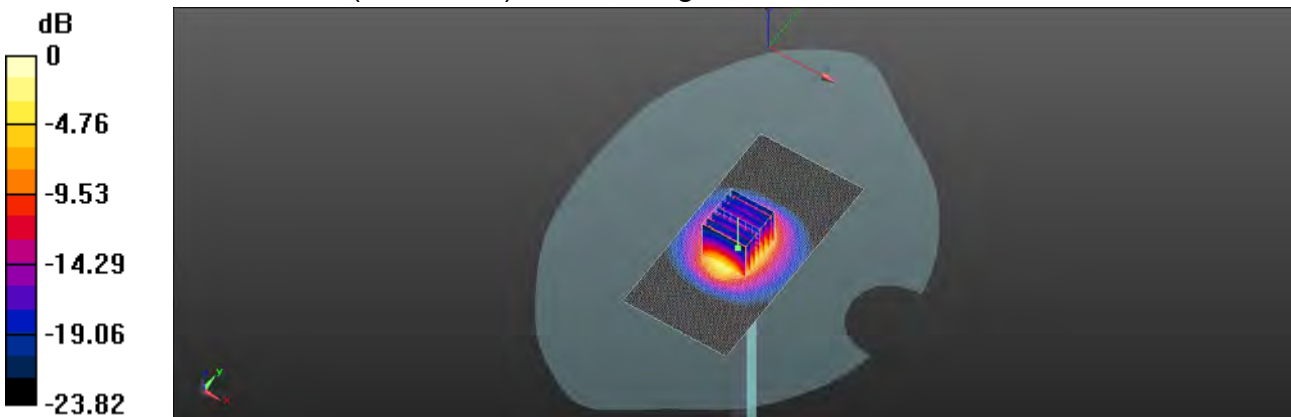
Peak SAR (extrapolated) = 40.3 W/kg

**SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.35 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 28.9 W/kg



0 dB = 28.9 W/kg = 14.61 dBW/kg

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Date: 2020/8/14

**Report No. : E5/2020/40007****Dipole 2600 MHz\_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.953$  S/m;  $\epsilon_r = 38.763$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (51x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 29.5 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.22 V/m; Power Drift = -0.06 dB

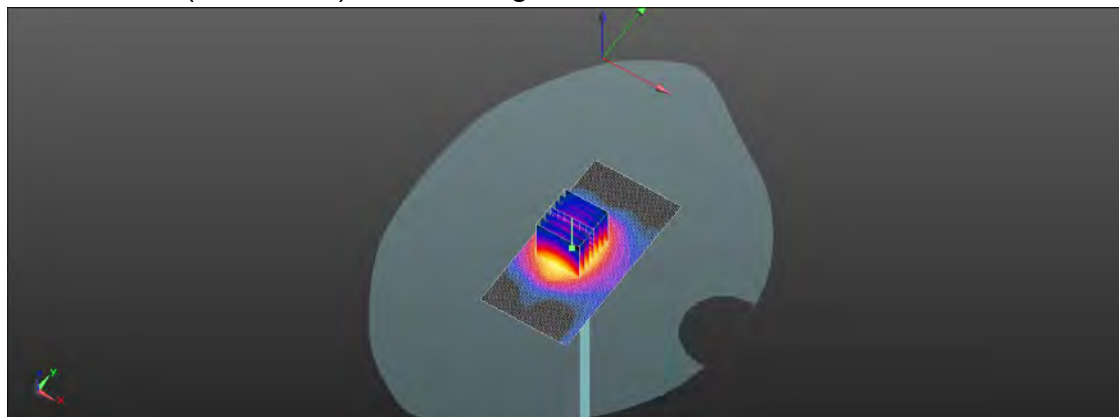
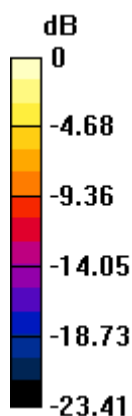
Peak SAR (extrapolated) = 40.7 W/kg

**SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.36 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 28.5 W/kg



0 dB = 28.5 W/kg = 14.55 dBW/kg

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Date: 2020/8/15

**Report No. : E5/2020/40007****Dipole 5200 MHz\_SN:1023**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.608$  S/m;  $\epsilon_r = 35.737$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.91 V/m; Power Drift = -0.01 dB

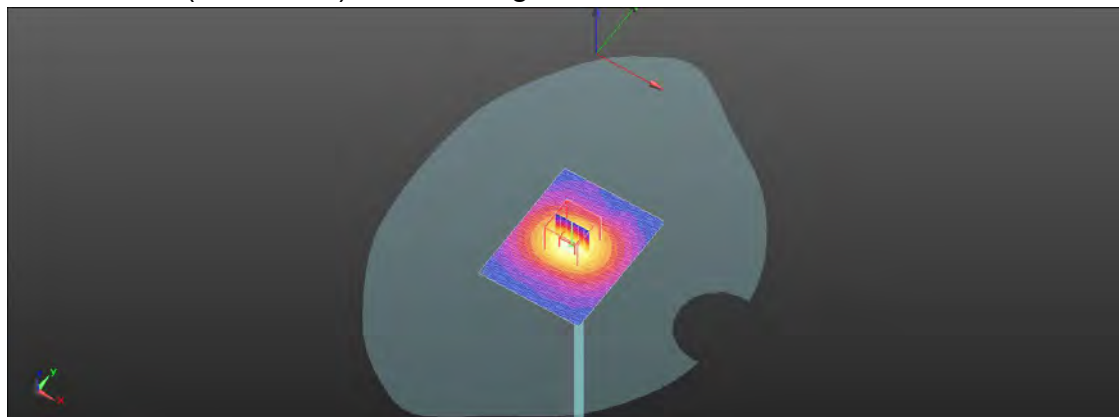
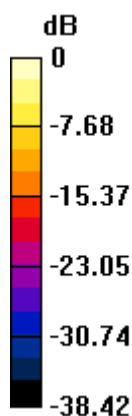
Peak SAR (extrapolated) = 34.0 W/kg

**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.29 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg = 12.48 dBW/kg

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Date: 2020/8/15

**Report No. : E5/2020/40007****Dipole 5300 MHz\_SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.71$  S/m;  $\epsilon_r = 35.613$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.8.8(1222); SEMCAD X 14.6.13(7474)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.9 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.43 V/m; Power Drift = 0.01 dB

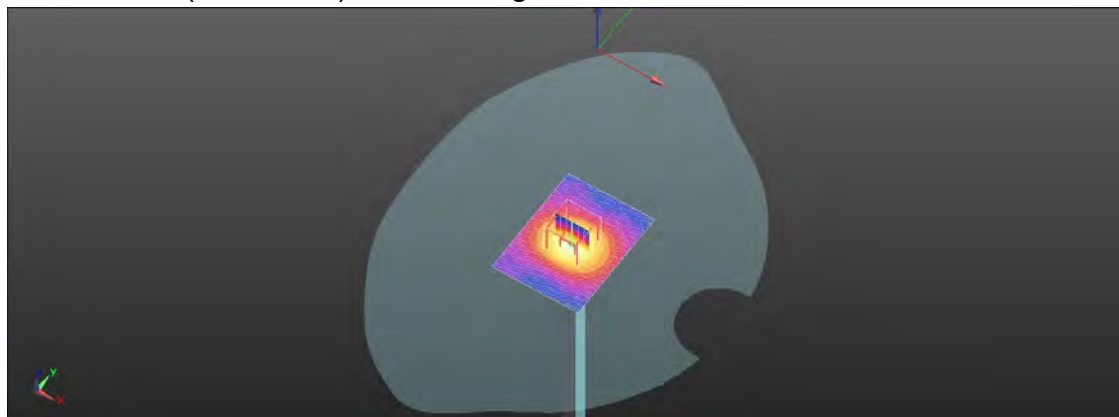
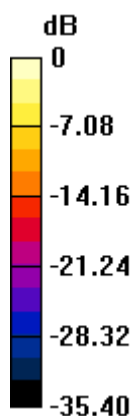
Peak SAR (extrapolated) = 35.8 W/kg

**SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.37 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 17.2 W/kg



0 dB = 17.2 W/kg = 12.35 dBW/kg

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Date: 2020/8/16

**Report No. : E5/2020/40007****Dipole 5600 MHz\_SN:1023**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.015$  S/m;  $\epsilon_r = 35.266$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (61x71x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.81 V/m; Power Drift = -0.04 dB

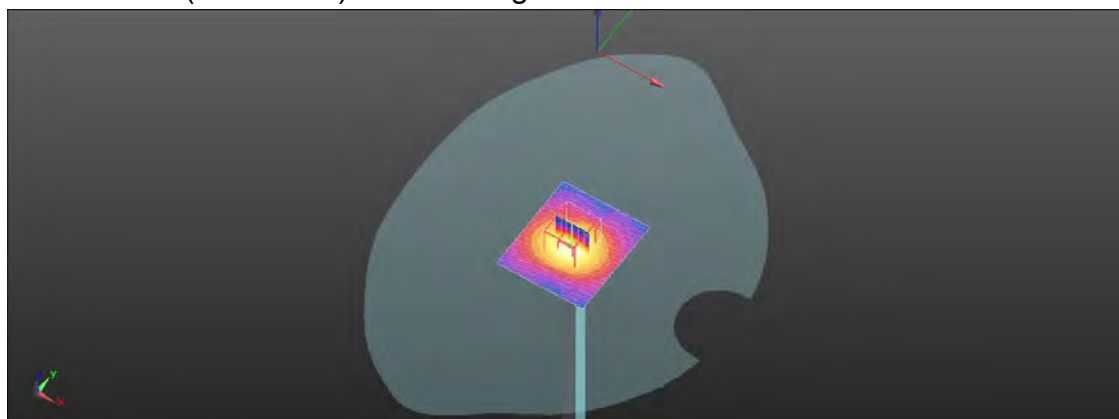
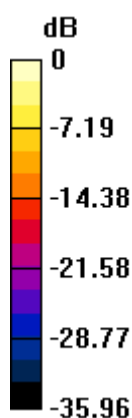
Peak SAR (extrapolated) = 37.4 W/kg

**SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.38 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 17.3 W/kg



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Date: 2020/8/16

**Report No. : E5/2020/40007****Dipole 5800 MHz\_SN:1023**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.216$  S/m;  $\epsilon_r = 35.056$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(4.75, 4.75, 4.75); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

**Area Scan (71x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.18 V/m; Power Drift = -0.06 dB

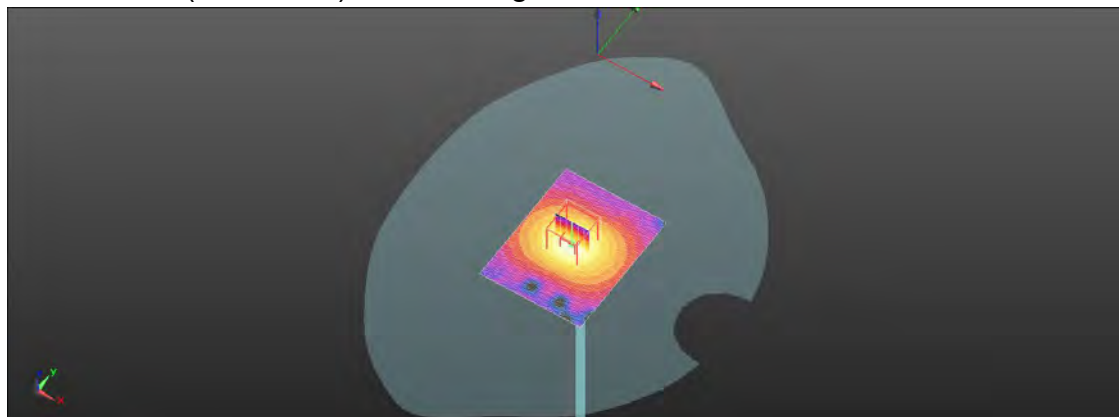
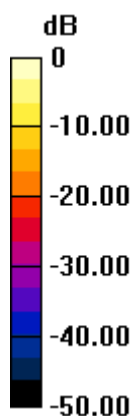
Peak SAR (extrapolated) = 38.5 W/kg

**SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.32 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 17.6 W/kg



0 dB = 17.6 W/kg = 12.46 dBW/kg

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## 7. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

| A                                             | c                         | D               | e          |           | f       | g        | $h=c * f / e$           | $i=c * g / e$           | k           |
|-----------------------------------------------|---------------------------|-----------------|------------|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty                         | Tolerance/<br>Uncertainty | Probabilit<br>y | Div        | Div Value | ci (1g) | ci (10g) | Standard<br>uncertainty | Standard<br>uncertainty | vi, or Veff |
| <b>Measurement system</b>                     |                           |                 |            |           |         |          |                         |                         |             |
| Probe calibration                             | 6.55%                     | N               | 1          | 1         | 1       | 1        | 6.55%                   | 6.55%                   | $\infty$    |
| <b>Isotropy , Axial</b>                       | 3.50%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.02%                   | 2.02%                   | $\infty$    |
| <b>Isotropy, Hemispherical</b>                | 9.60%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 5.54%                   | 5.54%                   | $\infty$    |
| Modulation Response                           | 2.40%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.40%                   | 1.40%                   | $\infty$    |
| Boundary Effect                               | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
| Linearity                                     | 4.70%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.71%                   | 2.71%                   | $\infty$    |
| Detection Limits                              | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
| Readout Electronics                           | 0.30%                     | N               | 1          | 1         | 1       | 1        | 0.30%                   | 0.30%                   | $\infty$    |
| Response time                                 | 0.80%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.46%                   | 0.46%                   | $\infty$    |
| Integration Time                              | 2.60%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.50%                   | 1.50%                   | $\infty$    |
| <b>Measurement drift (class A evaluation)</b> | 1.75%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.01%                   | 1.01%                   | $\infty$    |
| RF ambient condition - noise                  | 3.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | $\infty$    |
| RF ambient conditions - reflections           | 3.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | $\infty$    |
| Probe positioner Mechanical restrictions      | 0.40%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.23%                   | 0.23%                   | $\infty$    |
| Probe Positioning with respect to phantom     | 2.90%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.67%                   | 1.67%                   | $\infty$    |
| Post-processing                               | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
| Max SAR Eval                                  | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
| <b>Test Sample related</b>                    |                           |                 |            |           |         |          |                         |                         |             |
| Test sample positioning                       | 2.90%                     | N               | 1          | 1         | 1       | 1        | 2.90%                   | 2.90%                   | M-1         |
| Device Holder Uncertainty                     | 3.60%                     | N               | 1          | 1         | 1       | 1        | 3.60%                   | 3.60%                   | M-1         |
| Drift of output power                         | 5.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.89%                   | 2.89%                   | $\infty$    |
| <b>Phantom and Setup</b>                      |                           |                 |            |           |         |          |                         |                         |             |
| Phantom Uncertainty                           | 4.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.31%                   | 2.31%                   | $\infty$    |
| Liquid permittivity (mea.)                    | 0.75%                     | N               | 1          | 1         | 0.64    | 0.43     | 0.48%                   | 0.32%                   | M           |
| Liquid Conductivity (mea.)                    | 1.04%                     | N               | 1          | 1         | 0.6     | 0.49     | 0.62%                   | 0.51%                   | M           |
| Combined standard uncertainty                 |                           | RSS             |            |           |         |          | 11.74%                  | 11.72%                  |             |
| Expant uncertainty (95% confidence)           |                           |                 |            |           |         |          | 23.48%                  | 23.44%                  |             |

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

| A                                             | c                         | D               | e          |           | f       | g        | $h=c * f / e$           | $i=c * g / e$           | k           |
|-----------------------------------------------|---------------------------|-----------------|------------|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty                         | Tolerance/<br>Uncertainty | Probabilit<br>y | Div        | Div Value | ci (1g) | ci (10g) | Standard<br>uncertainty | Standard<br>uncertainty | vi, or Veff |
| <b>Measurement system</b>                     |                           |                 |            |           |         |          |                         |                         |             |
| Probe calibration                             | 6.00%                     | N               | 1          | 1         | 1       | 1        | 6.00%                   | 6.00%                   | $\infty$    |
| <b>Isotropy, Axial</b>                        | 3.50%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.02%                   | 2.02%                   | $\infty$    |
| <b>Isotropy, Hemispherical</b>                | 9.60%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 5.54%                   | 5.54%                   | $\infty$    |
| Modulation Response                           | 2.40%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.40%                   | 1.40%                   | $\infty$    |
| Boundary Effect                               | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
| Linearity                                     | 4.70%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.71%                   | 2.71%                   | $\infty$    |
| Detection Limits                              | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
| Readout Electronics                           | 0.30%                     | N               | 1          | 1         | 1       | 1        | 0.30%                   | 0.30%                   | $\infty$    |
| Response time                                 | 0.80%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.46%                   | 0.46%                   | $\infty$    |
| Integration Time                              | 2.60%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.50%                   | 1.50%                   | $\infty$    |
| <b>Measurement drift (class A evaluation)</b> | 1.75%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.01%                   | 1.01%                   | $\infty$    |
| RF ambient condition - noise                  | 3.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | $\infty$    |
| RF ambient conditions - reflections           | 3.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | $\infty$    |
| Probe positioner Mechanical restrictions      | 0.40%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.23%                   | 0.23%                   | $\infty$    |
| Probe Positioning with respect to phantom     | 2.90%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.67%                   | 1.67%                   | $\infty$    |
| Post-processing                               | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
| Max SAR Eval                                  | 1.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | $\infty$    |
|                                               |                           |                 |            |           |         |          |                         |                         |             |
| <b>Test Sample related</b>                    |                           |                 |            |           |         |          |                         |                         |             |
| Test sample positioning                       | 2.90%                     | N               | 1          | 1         | 1       | 1        | 2.90%                   | 2.90%                   | M-1         |
| Device Holder Uncertainty                     | 3.60%                     | N               | 1          | 1         | 1       | 1        | 3.60%                   | 3.60%                   | M-1         |
| Drift of output power                         | 5.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.89%                   | 2.89%                   | $\infty$    |
|                                               |                           |                 |            |           |         |          |                         |                         |             |
| <b>Phantom and Setup</b>                      |                           |                 |            |           |         |          |                         |                         |             |
| Phantom Uncertainty                           | 4.00%                     | R               | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.31%                   | 2.31%                   | $\infty$    |
| Liquid permittivity (mea.)                    | 0.95%                     | N               | 1          | 1         | 0.64    | 0.43     | 0.61%                   | 0.41%                   | M           |
| Liquid Conductivity (mea.)                    | 1.56%                     | N               | 1          | 1         | 0.6     | 0.49     | 0.94%                   | 0.76%                   | M           |
| Combined standard uncertainty                 |                           | RSS             |            |           |         |          | 11.47%                  | 11.44%                  |             |
| Expant uncertainty (95% confidence)           |                           |                 |            |           |         |          | 22.94%                  | 22.88%                  |             |

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## Appendixes

**Refer to separated files for the following appendixes.**

**E5202040007 SAR\_Appendix A Photographs**

**E5202040007 SAR\_Appendix B DAE & Probe Cal. Certificate**

**E5202040007 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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