



| Configure  | CA Configuration | PCC               |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | Power                   |                            |
|------------|------------------|-------------------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|-------------------------|----------------------------|
|            |                  | LTE Band          | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx. Power (dBm) | Without CA Tx. Power (dBm) |
| Inter-Band | CA_2A-2A-4A      | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 4   | 20M      | 2132.5         | 2175       | 23.62                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 4   | 20M      | 2132.5         | 2175       | 23.65                   | 23.87                      |
|            |                  | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 23.63                   | 24.07                      |
|            |                  | Band 4 (4*4MIMO)  | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 23.7                    | 24.07                      |
|            | CA_2A-4A-4A      | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 4   | 20M      | 2132.5         | 2175       | Band 4   | 5M       | 2152.5         | 2375       | 23.59                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 4   | 20M      | 2132.5         | 2175       | Band 4   | 5M       | 2152.5         | 2375       | 23.63                   | 23.87                      |
|            |                  | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 4   | 5M       | 2152.5         | 2375       | Band 2   | 20M      | 1960           | 900        | 23.58                   | 24.07                      |
|            |                  | Band 4 (4*4MIMO)  | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 4   | 5M       | 2152.5         | 2375       | Band 2   | 20M      | 1960           | 900        | 23.63                   | 24.07                      |
|            | CA_2A-2A-5A      | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 5   | 10M      | 881.5          | 2525       | 23.6                    | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 5   | 10M      | 881.5          | 2525       | 23.65                   | 23.87                      |
|            |                  | Band 5            | 10M      | 836.5          | 20525      | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 23.9                    | 24.11                      |
|            | CA_2A-7A-7A      | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 7   | 20M      | 2655           | 3100       | Band 7   | 5M       | 2687.5         | 3425       | 23.61                   | 23.87                      |
|            |                  | Band 7            | 20M      | 2560           | 21350      | QPSK | 1      | 0            | Band 7   | 5M       | 2622.5         | 2775       | Band 2   | 20M      | 1960           | 900        | 23.35                   | 23.69                      |
|            | CA_2A-46C        | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 46  | 20M      | 5540.2         | 50692      | Band 46  | 20M      | 5560           | 50890      | 23.74                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 46  | 20M      | 5540.2         | 50692      | Band 46  | 20M      | 5560           | 50890      | 23.81                   | 23.87                      |
|            | CA_2C-66A        | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 20M      | 1960.2         | 902        | Band 66  | 20M      | 2155           | 66886      | 23.68                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 66  | 20M      | 2155           | 66886      | Band 66  | 20M      | 2174.8         | 67084      | 23.63                   | 23.87                      |
|            |                  | Band 66           | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 20M      | 1979.8         | 1098       | 24.05                   | 24.14                      |
|            |                  | Band 66 (4*4MIMO) | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 66  | 20M      | 2174.8         | 67084      | Band 2   | 20M      | 1960           | 900        | 24.12                   | 24.14                      |
|            | CA_2A-2A-13A     | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 13  | 10M      | 751            | 5230       | 23.72                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 13  | 10M      | 751            | 5230       | 23.84                   | 23.87                      |
|            |                  | Band 13           | 10M      | 782            | 23230      | QPSK | 1      | 49           | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 23.85                   | 23.99                      |
|            | CA_2A-2A-12A     | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 12  | 10M      | 737.5          | 5095       | 23.64                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 12  | 10M      | 737.5          | 5095       | 23.70                   | 23.87                      |
|            |                  | Band 12           | 10M      | 707.5          | 23095      | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 23.77                   | 23.95                      |
|            | CA_2A-66C        | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 66  | 20M      | 2155           | 66886      | Band 66  | 20M      | 2174.8         | 67084      | 23.63                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 66  | 20M      | 2155           | 66886      | Band 66  | 20M      | 2174.8         | 67084      | 23.63                   | 23.87                      |
|            |                  | Band 66           | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 66  | 20M      | 2174.8         | 67084      | Band 2   | 20M      | 1960           | 900        | 24.12                   | 24.14                      |
|            |                  | Band 66 (4*4MIMO) | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 66  | 20M      | 2174.8         | 67084      | Band 2   | 20M      | 1960           | 900        | 24.11                   | 24.14                      |
|            | CA_2A-2A-66A     | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 66  | 20M      | 2155           | 66886      | 23.63                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 66  | 20M      | 2155           | 66886      | 23.71                   | 23.87                      |
|            |                  | Band 66           | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 24.11                   | 24.14                      |
|            |                  | Band 66 (4*4MIMO) | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 24.05                   | 24.14                      |
|            | CA_2A-2A-71A     | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 71  | 20M      | 637            | 68786      | 23.64                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1932.5         | 625        | Band 71  | 20M      | 637            | 68786      | 23.76                   | 23.87                      |
|            |                  | Band 71           | 20M      | 683            | 133322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | 24.11                   | 24.49                      |
|            | CA_2A-66A-66A    | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 66  | 20M      | 2155           | 66886      | Band 66  | 5M       | 2197.5         | 67311      | 23.62                   | 23.87                      |
|            |                  | Band 2 (4*4MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 66  | 20M      | 2155           | 66886      | Band 66  | 5M       | 2197.5         | 67311      | 23.69                   | 23.87                      |
|            |                  | Band 66           | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 66  | 5M       | 2197.5         | 67311      | Band 2   | 20M      | 1960           | 900        | 23.81                   | 24.14                      |
|            |                  | Band 66 (4*4MIMO) | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 66  | 5M       | 2197.5         | 67311      | Band 2   | 20M      | 1960           | 900        | 23.88                   | 24.14                      |
|            | CA_4A-4A-5A      | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 4   | 5M       | 2152.5         | 2375       | Band 5   | 10M      | 881.5          | 2525       | 23.58                   | 24.07                      |
|            |                  | Band 4 (4*4MIMO)  | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 4   | 5M       | 2152.5         | 2375       | Band 5   | 10M      | 881.5          | 2525       | 23.63                   | 24.07                      |
|            |                  | Band 5            | 10M      | 836.5          | 20525      | QPSK | 1      | 0            | Band 4   | 20M      | 2132.5         | 2175       | Band 4   | 5M       | 2152.5         | 2375       | 23.86                   | 24.11                      |
|            | CA_4A-4A-7A      | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 4   | 5M       | 2152.5         | 2375       | Band 7   | 20M      | 2655           | 3100       | 23.57                   | 24.07                      |
|            |                  | Band 7            | 20M      | 2560           | 21350      | QPSK | 1      | 0            | Band 4   | 20M      | 2132.5         | 2175       | Band 4   | 5M       | 2152.5         | 2375       | 23.25                   | 23.69                      |
|            | CA_4A-7A-7A      | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 7   | 20M      | 2655           | 3100       | Band 7   | 5M       | 2687.5         | 3425       | 23.58                   | 24.07                      |



# FCC SAR Test Report

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|            |            |                |                   |     |        |        |      |   |    |         |     |        |       |         |     |        |       |       |       |
|------------|------------|----------------|-------------------|-----|--------|--------|------|---|----|---------|-----|--------|-------|---------|-----|--------|-------|-------|-------|
| Inter-Band |            | CA_4A-7A-7A    | Band 4 (4*4MIMO)  | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 7  | 20M | 2655   | 3100  | Band 7  | 5M  | 2687.5 | 3425  | 23.56 | 24.07 |
|            |            |                | Band 7            | 20M | 2560   | 21350  | QPSK | 1 | 0  | Band 7  | 5M  | 2622.5 | 2775  | Band 4  | 20M | 2132.5 | 2175  | 23.37 | 23.69 |
|            |            | CA_4A-46C      | Band 4            | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | 23.73 | 24.07 |
|            |            |                | Band 4 (4*4MIMO)  | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | 23.95 | 24.07 |
|            |            | CA_4A-4A-12A   | Band 4            | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 4  | 5M  | 2152.5 | 2375  | Band 12 | 10M | 737.5  | 5095  | 23.57 | 24.07 |
|            |            |                | Band 4 (4*4MIMO)  | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 4  | 5M  | 2152.5 | 2375  | Band 12 | 10M | 737.5  | 5095  | 23.63 | 24.07 |
|            |            |                | Band 12           | 10M | 707.5  | 23095  | QPSK | 1 | 0  | Band 4  | 20M | 2132.5 | 2175  | Band 4  | 5M  | 2152.5 | 2375  | 22.79 | 23.95 |
|            |            | CA_4A-4A-71A   | Band 4            | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 4  | 5M  | 2152.5 | 2375  | Band 71 | 20M | 637    | 68786 | 23.56 | 24.07 |
|            |            |                | Band 4 (4*4MIMO)  | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 4  | 5M  | 2152.5 | 2375  | Band 71 | 20M | 637    | 68786 | 23.63 | 24.07 |
|            |            |                | Band 71           | 20M | 683    | 133322 | QPSK | 1 | 0  | Band 4  | 20M | 2132.5 | 2175  | Band 4  | 5M  | 2152.5 | 2375  | 23.67 | 24.49 |
|            |            | CA_4A-4A-13A   | Band 4            | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 4  | 5M  | 2152.5 | 2375  | Band 13 | 10M | 751    | 5230  | 23.56 | 24.07 |
|            |            |                | Band 4 (4*4MIMO)  | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 4  | 5M  | 2152.5 | 2375  | Band 13 | 10M | 751    | 5230  | 23.62 | 24.07 |
|            |            |                | Band 13           | 10M | 782    | 23230  | QPSK | 1 | 49 | Band 4  | 20M | 2132.5 | 2175  | Band 4  | 5M  | 2152.5 | 2375  | 23.69 | 23.99 |
|            |            | CA_4A-46A-46A  | Band 4            | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 46 | 20M | 5160   | 46890 | Band 46 | 20M | 5905   | 54340 | 23.54 | 24.07 |
|            |            |                | Band 4 (4*4MIMO)  | 20M | 1732.5 | 20175  | QPSK | 1 | 0  | Band 46 | 20M | 5160   | 46890 | Band 46 | 20M | 5905   | 54340 | 23.84 | 24.07 |
|            |            | CA_2A-46A-46A  | Band 2            | 20M | 1900   | 19100  | QPSK | 1 | 0  | Band 46 | 20M | 5160   | 46890 | Band 46 | 20M | 5905   | 54340 | 23.61 | 23.87 |
|            |            |                | Band 2 (4*4MIMO)  | 20M | 1900   | 19100  | QPSK | 1 | 0  | Band 46 | 20M | 5160   | 46890 | Band 46 | 20M | 5905   | 54340 | 23.81 | 23.87 |
|            |            | CA_66A-46A-46A | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 46 | 20M | 5160   | 46890 | Band 46 | 20M | 5905   | 54340 | 23.85 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 46 | 20M | 5160   | 46890 | Band 46 | 20M | 5905   | 54340 | 23.92 | 24.14 |
|            |            | CA_5A-66A-66A  | Band 5            | 10M | 836.5  | 20525  | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 5M  | 2197.5 | 67311 | 23.86 | 24.11 |
|            |            |                | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 5  | 10M | 881.5  | 2525  | 23.8  | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 5  | 10M | 881.5  | 2525  | 23.82 | 24.14 |
|            |            | CA_5A-66C      | Band 5            | 10M | 836.5  | 20525  | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 20M | 2174.8 | 67084 | 23.84 | 24.11 |
|            |            |                | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 20M | 2174.8 | 67084 | Band 5  | 10M | 881.5  | 2525  | 23.81 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 20M | 2174.8 | 67084 | Band 5  | 10M | 881.5  | 2525  | 23.83 | 24.14 |
|            |            | CA_12A-66A-66A | Band 12           | 10M | 707.5  | 23095  | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 5M  | 2197.5 | 67311 | 22.79 | 23.95 |
|            |            |                | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 12 | 10M | 737.5  | 5095  | 23.81 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 12 | 10M | 737.5  | 5095  | 23.86 | 24.14 |
|            |            | CA_12A-66C     | Band 12           | 10M | 707.5  | 23095  | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 20M | 2174.8 | 67084 | 22.8  | 23.95 |
|            |            |                | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 20M | 2174.8 | 67084 | Band 12 | 10M | 737.5  | 5095  | 23.8  | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 12 | 10M | 737.5  | 5095  | 23.86 | 24.14 |
|            |            | CA_13A-66A-66A | Band 13           | 10M | 782    | 23230  | QPSK | 1 | 49 | Band 66 | 20M | 2155   | 66886 | Band 66 | 5M  | 2197.5 | 67311 | 23.71 | 23.99 |
|            |            |                | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 13 | 10M | 751    | 5230  | 23.83 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 13 | 10M | 751    | 5230  | 23.85 | 24.14 |
|            |            | CA_66A-66A-71A | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 71 | 20M | 637    | 68786 | 23.81 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 5M  | 2197.5 | 67311 | Band 71 | 20M | 637    | 68786 | 23.87 | 24.14 |
|            |            |                | Band 71           | 20M | 683    | 133322 | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 5M  | 2197.5 | 67311 | 23.64 | 24.49 |
|            |            | CA_66A-46C     | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | 23.89 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | 23.93 | 24.14 |
|            |            | CA_66C-71A     | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 20M | 2174.8 | 67084 | Band 71 | 20M | 637    | 68786 | 23.81 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 20M | 2174.8 | 67084 | Band 71 | 20M | 637    | 68786 | 23.93 | 24.14 |
|            |            |                | Band 71           | 20M | 683    | 133322 | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 20M | 2174.8 | 67084 | 23.68 | 24.49 |
|            |            | CA_66A-66C     | Band 66           | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 20M | 2174.8 | 67084 | 23.92 | 24.14 |
|            |            |                | Band 66 (4*4MIMO) | 20M | 1745   | 132322 | QPSK | 1 | 0  | Band 66 | 20M | 2155   | 66886 | Band 66 | 20M | 2174.8 | 67084 | 23.97 | 24.14 |
| Intra-Band | Contiguous | CA_41D         | Band 41           | 20M | 2636.5 | 41055  | QPSK | 1 | 0  | Band 41 | 20M | 2660.2 | 41292 | Band 41 | 20M | 2640.4 | 41094 | 23.33 | 23.36 |
|            |            | CA_41A-41C     | Band 41           | 20M | 2636.5 | 41055  | QPSK | 1 | 0  | Band 41 | 5M  | 2498.5 | 39675 | Band 41 | 20M | 2510.2 | 39792 | 23.31 | 23.36 |
|            |            |                | Band 41           | 20M | 2636.5 | 41055  | QPSK | 1 | 0  | Band 41 | 20M | 2656.3 | 41253 | Band 41 | 5M  | 2687.5 | 41565 | 23.29 | 23.36 |



## &lt;Four Carrier power verification&gt;

|           | CA Configuration  | PCC               |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | Power                   |                            |
|-----------|-------------------|-------------------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|-------------------------|----------------------------|
|           |                   | LTE Band          | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx. Power (dBm) | Without CA Tx. Power (dBm) |
| Configure | CA_2A-4A-4A-71    | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 4   | 20M      | 2132.5         | 2175       | Band 4   | 5M       | 2152.5         | 2375       | Band71   | 20M      | 637            | 68786      | 23.76                   | 23.87                      |
|           |                   | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 4   | 5M       | 2152.5         | 2375       | Band71   | 20M      | 637            | 68786      | 24.12                   | 24.07                      |
|           |                   | Band71            | 20M      | 683            | 133322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 4   | 20M      | 2132.5         | 2175       | Band 4   | 5M       | 2152.5         | 2375       | 24.34                   | 24.49                      |
|           | CA_2A-12A-66A-66A | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 12  | 10M      | 737.5          | 5095       | Band 66  | 20M      | 2155           | 66886      | Band66   | 5M       | 2197.5         | 67311      | 23.91                   | 23.87                      |
|           |                   | Band12            | 10M      | 707.5          | 23095      | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 66  | 20M      | 2155           | 66886      | Band66   | 5M       | 2197.5         | 67311      | 23.87                   | 23.95                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 12  | 10M      | 737.5          | 5095       | Band66   | 5M       | 2197.5         | 67311      | 24.02                   | 24.14                      |
|           | CA_2A-2A--66C     | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1987.5         | 1175       | Band 66  | 20M      | 2155           | 66886      | Band66   | 20M      | 2174.8         | 67084      | 23.94                   | 23.87                      |
|           |                   | Band 2(4*4)       | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1987.5         | 1175       | Band 66  | 20M      | 2155           | 66886      | Band 66  | 20M      | 2174.8         | 67084      | 23.8                    | 23.87                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | Band66   | 20M      | 2174.8         | 67084      | 24.13                   | 24.14                      |
|           |                   | Band 66(4*4 MIMO) | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | Band 66  | 20M      | 2174.8         | 67084      | 24.2                    | 24.14                      |
|           | CA_2A-12A--66C    | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 12  | 10M      | 737.5          | 5095       | Band 66  | 20M      | 2155           | 66886      | Band66   | 20M      | 2174.8         | 67084      | 23.81                   | 23.87                      |
|           |                   | Band 2(4*4 MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 12  | 10M      | 737.5          | 5095       | Band 66  | 20M      | 2155           | 66886      | Band 66  | 20M      | 2174.8         | 67084      | 23.85                   | 23.87                      |
|           |                   | Band12            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 66  | 20M      | 2155           | 66886      | Band66   | 20M      | 2174.8         | 67084      | 23.79                   | 23.95                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 12  | 10M      | 737.5          | 5095       | Band66   | 20M      | 2174.8         | 67084      | 23.98                   | 24.14                      |
|           | CA_2A-66C-71A     | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 66  | 20M      | 2155           | 66886      | Band 66  | 20M      | 2174.8         | 67084      | Band71   | 20M      | 637            | 68786      | 23.77                   | 23.87                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 66  | 20M      | 2174.8         | 66886      | Band71   | 20M      | 637            | 68786      | 24.26                   | 24.14                      |
|           |                   | Band71            | 20M      | 683            | 133322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 66  | 20M      | 2155           | 66886      | Band66   | 20M      | 2174.8         | 67084      | 24.34                   | 24.49                      |
|           | CA_2A-66A-66A-71A | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 66  | 20M      | 2155           | 66886      | Band 66  | 5M       | 2197.5         | 67311      | Band71   | 20M      | 637            | 68786      | 23.75                   | 23.87                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 66  | 5M       | 2197.5         | 67311      | Band71   | 20M      | 637            | 68786      | 24.32                   | 24.14                      |
|           |                   | Band71            | 20M      | 683            | 133322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 66  | 20M      | 2155           | 66886      | Band66   | 5M       | 2197.5         | 67311      | 24.46                   | 24.49                      |
|           | CA_2A-2A-66A-71A  | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1987.5         | 1175       | Band 66  | 20M      | 2155           | 66886      | Band71   | 20M      | 637            | 68786      | 23.97                   | 23.87                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | Band71   | 20M      | 637            | 68786      | 24.02                   | 24.14                      |
|           |                   | Band71            | 20M      | 683            | 133322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | Band66   | 20M      | 2155           | 66886      | 24.53                   | 24.49                      |
|           | 2A-46D            | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 46  | 20M      | 5520.2         | 50492      | Band 46  | 20M      | 5540           | 50690      | Band46   | 20M      | 5559.8         | 50888      | 23.7                    | 23.87                      |
|           |                   | Band 2(4*4 MIMO)  | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 46  | 20M      | 5520.2         | 50492      | Band 46  | 20M      | 5540           | 50690      | Band 46  | 20M      | 5559.8         | 50888      | 23.9                    | 23.87                      |
|           | CA_2A-2A-12A-66A  | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1987.5         | 1175       | Band 12  | 10M      | 737.5          | 5095       | Band66   | 20M      | 2155           | 66886      | 23.75                   | 23.87                      |
|           |                   | Band12            | 10M      | 707.5          | 23095      | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | Band66   | 20M      | 2155           | 66886      | 24.02                   | 23.95                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | Band12   | 10M      | 737.5          | 5095       | 24.19                   | 24.14                      |
|           | CA_2A-2A-66A-66A  | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 5M       | 1987.5         | 1175       | Band 66  | 20M      | 2155           | 66886      | Band66   | 5M       | 2197.5         | 67311      | 23.95                   | 23.87                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 5M       | 1987.5         | 1175       | Band66   | 5M       | 2197.5         | 67311      | 24.00                   | 24.14                      |
|           | CA_2C-66A-66A     | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 2   | 20M      | 1979.8         | 1098       | Band 66  | 20M      | 2155           | 66886      | Band66   | 5M       | 2197.5         | 67311      | 23.83                   | 23.87                      |
|           |                   | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 2   | 20M      | 1960           | 900        | Band 2   | 20M      | 1979.8         | 1098       | Band66   | 5M       | 2197.5         | 67311      | 24.23                   | 24.14                      |
|           | 4A-46D            | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 46  | 20M      | 5520.2         | 50492      | Band 46  | 20M      | 5540           | 50690      | Band46   | 20M      | 5559.8         | 50888      | 24.21                   | 24.07                      |
|           |                   | Band 4(4*4 MIMO)  | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 46  | 20M      | 5520.2         | 50492      | Band 46  | 20M      | 5540           | 50690      | Band46   | 20M      | 5559.8         | 50888      | 24.10                   | 24.07                      |
|           | 4A-46A-46C        | Band 4            | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 46  | 20M      | 5160           | 46890      | Band 46  | 20M      | 5540.2         | 50692      | Band46   | 20M      | 5560           | 50890      | 24.20                   | 24.07                      |
|           |                   | Band 4(4*4 MIMO)  | 20M      | 1732.5         | 20175      | QPSK | 1      | 0            | Band 46  | 20M      | 5160           | 46890      | Band 46  | 20M      | 5540.2         | 50692      | Band 46  | 20M      | 5560           | 50890      | 24.15                   | 24.07                      |
|           | 2A-46A-46C        | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 46  | 20M      | 5160           | 46890      | Band 46  | 20M      | 5540.2         | 50692      | Band46   | 20M      | 5560           | 50890      | 23.94                   | 23.87                      |
| Configure | 2A-46A-46C        | Band 2(4*4)       | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 46  | 20M      | 5160           | 46890      | Band 46  | 20M      | 5540.2         | 50692      | Band 46  | 20M      | 5560           | 50890      | 23.84                   | 23.87                      |
|           | 2A-46A-46A-46A    | Band 2            | 20M      | 1900           | 19100      | QPSK | 1      | 0            | Band 46  | 20M      | 5540           | 50690      | Band 46  | 20M      | 5160           | 46890      | Band46   | 20M      | 5905           | 54340      | 23.94                   | 23.87                      |
|           | 66A-46A-46C       | Band66            | 20M      | 1745           | 132322     | QPSK | 1      | 0            | Band 46  | 20M      | 5160           | 46890      | Band 46  | 20M      | 5540.2         | 50692      | Band46   | 20M      | 5560           | 50890      | 24.05                   | 24.14                      |



# FCC SAR Test Report

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|  |             |                   |     |      |        |      |   |   |         |     |        |       |         |     |        |       |         |     |        |       |       |       |
|--|-------------|-------------------|-----|------|--------|------|---|---|---------|-----|--------|-------|---------|-----|--------|-------|---------|-----|--------|-------|-------|-------|
|  | 66A-46A-46C | Band 66(4*4 MIMO) | 20M | 1745 | 132322 | QPSK | 1 | 0 | Band 46 | 20M | 5160   | 46890 | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | 24.1  | 24.14 |
|  | 2A-46C-66A  | Band66            | 20M | 1745 | 132322 | QPSK | 1 | 0 | Band 2  | 20M | 1960   | 900   | Band 46 | 20M | 5540.2 | 50692 | Band46  | 20M | 5560   | 50890 | 24.05 | 24.14 |
|  |             | Band 66(4*4)      | 20M | 1745 | 132322 | QPSK | 1 | 0 | Band 2  | 20M | 1960   | 900   | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | 24.00 | 24.14 |
|  |             | Band 2            | 20M | 1900 | 19100  | QPSK | 1 | 0 | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | Band66  | 20M | 2155   | 66886 | 23.96 | 23.87 |
|  |             | Band 2(4*4 MIMO)  | 20M | 1900 | 19100  | QPSK | 1 | 0 | Band 46 | 20M | 5540.2 | 50692 | Band 46 | 20M | 5560   | 50890 | Band 66 | 20M | 2155   | 66886 | 23.81 | 23.87 |
|  | 66A-46D     | Band66            | 20M | 1745 | 132322 | QPSK | 1 | 0 | Band 46 | 20M | 5520.2 | 50492 | Band 46 | 20M | 5540   | 50690 | Band46  | 20M | 5559.8 | 50888 | 24.08 | 24.14 |
|  |             | Band 66(4*4)      | 20M | 1745 | 132322 | QPSK | 1 | 0 | Band 46 | 20M | 5520.2 | 50492 | Band 46 | 20M | 5540   | 50690 | Band 46 | 20M | 5559.8 | 50888 | 24.18 | 24.14 |

## <Five Carrier power verification>

| Configure  | CA Configuration  | PCC      |          |                |            |      |    |            | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | SCC4     |          |                |            | Power                   |                            |
|------------|-------------------|----------|----------|----------------|------------|------|----|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|-------------------------|----------------------------|
|            |                   | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | U# | RB Offs et | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx. Power (dBm) | Without CA Tx. Power (dBm) |
| Inter-Band | CA_2A-46A-46C-66A | Band 2   | 20M      | 1900           | 19100      | QPSK | 1  | 0          | Band46   | 20M      | 5160           | 46890      | Band46   | 20M      | 5540.2         | 50692      | Band46   | 20M      | 5560           | 50890      | Band66   | 20M      | 2155           | 66886      | 23.69                   | 23.87                      |
|            |                   | Band 66  | 20M      | 1745           | 132322     | QPSK | 1  | 0          | Band 2   | 20M      | 1960           | 900        | Band46   | 20M      | 5160           | 46890      | Band46   | 20M      | 5540.2         | 50692      | Band46   | 20M      | 5560           | 50890      | 24.05                   | 24.14                      |
|            | CA_2A-46D-66A     | Band 2   | 20M      | 1900           | 19100      | QPSK | 1  | 0          | Band46   | 20M      | 5520.2         | 50492      | Band46   | 20M      | 5540           | 50690      | Band46   | 20M      | 5559.8         | 50888      | Band66   | 20M      | 2155           | 66886      | 23.75                   | 23.87                      |
|            |                   | Band 66  | 20M      | 1745           | 132322     | QPSK | 1  | 0          | Band 2   | 20M      | 1960           | 900        | Band46   | 20M      | 5520.2         | 50492      | Band46   | 20M      | 5540           | 50690      | Band46   | 20M      | 5559.8         | 50888      | 24.09                   | 24.14                      |

**LTE Carrier Aggregation Conducted Power (Uplink)**

1. This device supports uplink carrier aggregation for LTE CA\_7C, CA\_41C with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. For the non-contiguously allocated resource blocks which the MPR level is determined by various RB separation and RB sizes requirement, and the allowed MPR levels, settings and the conducted powers are permanently implemented in this device per the 3GPP 36.101 section 6.2.3A.1.3 requirements.
2. According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
3. In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs
4. Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05. The required test channel should be associated with the UL PCC. For channels at the ends of a frequency band, the SCC and subsequent CCs are added to the side within the transmission band. Otherwise, the CCs should be added alternatively to either side of the PCC.





### <WWAN Antenna 3 -- Full Power>

**<LTE Band 7>**

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.15                | 24                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.41                | 24                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.48                | 24                  |

**<LTE Band 41>**

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.22                | 24                  |
| 40185                                 | 40383       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 24                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.32                | 24                  |
| 41055                                 | 40875       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.35                | 24                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.31                | 24                  |

### <WWAN Antenna 3 -- Reduced Power Level 1 for WWAN Only>

**<LTE Band 7>**

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 50      | 24        | 0       | 0         | 50            | 0                     | 19.89                | 20.5                |
| 21100                                 | 20902       | QPSK       | 50      | 24        | 0       | 0         | 50            | 0                     | 19.93                | 20.5                |
| 21350                                 | 21152       | QPSK       | 50      | 24        | 0       | 0         | 50            | 0                     | 19.84                | 20.5                |

**<LTE Band 41>**

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.49                | 21.8                |
| 40185                                 | 40383       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.54                | 21.8                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.56                | 21.8                |
| 41055                                 | 40875       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.57                | 21.8                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.52                | 21.8                |

### <WWAN Antenna 3 -- Reduced Power Level 2 for WWAN + WLAN 2.4GHz Simultaneous Transmission>

**<LTE Band 7>**

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 50      | 24        | 0       | 0         | 50            | 0                     | 18.14                | 19                  |
| 21100                                 | 20902       | QPSK       | 50      | 24        | 0       | 0         | 50            | 0                     | 18.36                | 19                  |
| 21350                                 | 21152       | QPSK       | 50      | 24        | 0       | 0         | 50            | 0                     | 18.34                | 19                  |

**<LTE Band 41>**

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.66                | 20.5                |
| 40185                                 | 40383       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.72                | 20.5                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.75                | 20.5                |
| 41055                                 | 40875       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.88                | 20.5                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.8                 | 20.5                |

### <WWAN Antenna 3 -- Reduced Power Level 3 for WWAN + WLAN 5GHz Simultaneous Transmission>

**<LTE Band 7>**

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 17.01                | 18                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 17.37                | 18                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 17.32                | 18                  |

**<LTE Band 41>**

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.44                | 20                  |
| 40185                                 | 40383       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.3                 | 20                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.5                 | 20                  |
| 41055                                 | 40875       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.51                | 20                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.47                | 20                  |

**<WLAN Conducted Power>****General Note:**

1. For 2.4GHz WLAN each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. For 5GHz WLAN, SAR testing was performed on MIMO mode since it can't transmit in SISO mode, so only evaluate MIMO mode power.
3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
6. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.



**<Full Power>**
**<2.4GHz WLAN Ant.1>**

| 2.4GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11b 1Mbps          | 1       | 2412               | 18.60                  | 19.50            | 99.31        |
|                |                        | 6       | 2437               | 19.03                  | 19.50            |              |
|                |                        | 11      | 2462               | 18.84                  | 19.50            |              |
|                | 802.11g 6Mbps          | 1       | 2412               | 17.73                  | 19.00            | 98.28        |
|                |                        | 6       | 2437               | 18.34                  | 19.00            |              |
|                |                        | 11      | 2462               | 18.14                  | 19.00            |              |
|                | 802.11n-HT20<br>MCS0   | 1       | 2412               | 16.53                  | 18.50            | 98.16        |
|                |                        | 6       | 2437               | 18.16                  | 18.50            |              |
|                |                        | 11      | 2462               | 17.94                  | 18.50            |              |
|                | 802.11n-HT40<br>MCS0   | 3       | 2422               | 14.56                  | 16.00            | 94.65        |
|                |                        | 6       | 2437               | 15.80                  | 16.00            |              |
|                |                        | 9       | 2452               | 14.93                  | 16.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 1       | 2412               | 16.46                  | 17.00            | 98.16        |
|                |                        | 6       | 2437               | 18.08                  | 18.50            |              |
|                |                        | 11      | 2462               | 17.89                  | 18.50            |              |
|                | 802.11ac-VHT40<br>MCS0 | 3       | 2422               | 14.55                  | 16.00            | 94.67        |
|                |                        | 6       | 2437               | 15.77                  | 16.00            |              |
|                |                        | 9       | 2452               | 14.91                  | 16.00            |              |

**<2.4GHz WLAN Ant.2>**

| 2.4GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11b 1Mbps          | 1       | 2412               | 15.77                  | 16.50            | 99.34        |
|                |                        | 6       | 2437               | 16.24                  | 16.50            |              |
|                |                        | 11      | 2462               | 15.87                  | 16.50            |              |
|                | 802.11g 6Mbps          | 1       | 2412               | 15.23                  | 16.50            | 98.28        |
|                |                        | 6       | 2437               | 15.30                  | 16.50            |              |
|                |                        | 11      | 2462               | 15.31                  | 16.50            |              |
|                | 802.11n-HT20<br>MCS0   | 1       | 2412               | 14.06                  | 15.50            | 98.16        |
|                |                        | 6       | 2437               | 15.11                  | 15.50            |              |
|                |                        | 11      | 2462               | 15.14                  | 15.50            |              |
|                | 802.11n-HT40<br>MCS0   | 3       | 2422               | 12.11                  | 13.50            | 94.68        |
|                |                        | 6       | 2437               | 13.38                  | 13.50            |              |
|                |                        | 9       | 2452               | 11.80                  | 13.50            |              |
|                | 802.11ac-VHT20<br>MCS0 | 1       | 2412               | 14.04                  | 15.50            | 97.79        |
|                |                        | 6       | 2437               | 15.11                  | 15.50            |              |
|                |                        | 11      | 2462               | 15.12                  | 15.50            |              |
|                | 802.11ac-VHT40<br>MCS0 | 3       | 2422               | 12.09                  | 13.50            | 94.24        |
|                |                        | 6       | 2437               | 13.37                  | 13.50            |              |
|                |                        | 9       | 2452               | 11.77                  | 13.50            |              |

**<2.4GHz WLAN Ant.1+2>**

| 2.4GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11b 1Mbps          | 1       | 2412               | 20.24                  | 21.00            | 99.28        |
|                |                        | 6       | 2437               | 20.88                  | 21.00            |              |
|                |                        | 11      | 2462               | 20.41                  | 21.00            |              |
|                | 802.11g 6Mbps          | 1       | 2412               | 19.63                  | 20.50            | 98.28        |
|                |                        | 6       | 2437               | 20.02                  | 20.50            |              |
|                |                        | 11      | 2462               | 19.86                  | 20.50            |              |
|                | 802.11n-HT20<br>MCS0   | 1       | 2412               | 18.57                  | 20.50            | 98.16        |
|                |                        | 6       | 2437               | 19.87                  | 20.50            |              |
|                |                        | 11      | 2462               | 19.63                  | 20.50            |              |
|                | 802.11n-HT40<br>MCS0   | 3       | 2422               | 16.51                  | 18.00            | 94.78        |
|                |                        | 6       | 2437               | 17.69                  | 18.00            |              |
|                |                        | 9       | 2452               | 16.30                  | 18.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 1       | 2412               | 18.50                  | 20.00            | 96.21        |
|                |                        | 6       | 2437               | 19.79                  | 20.00            |              |
|                |                        | 11      | 2462               | 19.52                  | 20.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 3       | 2422               | 16.49                  | 18.00            | 90.58        |
|                |                        | 6       | 2437               | 17.57                  | 18.00            |              |
|                |                        | 9       | 2452               | 16.23                  | 18.00            |              |

**<5GHz WLAN Ant.1+2>**

| 5.2GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a 6Mbps          | 36      | 5180               | 20.37                  | 20.50            | 97.59        |
|                |                        | 40      | 5200               | 20.23                  | 20.50            |              |
|                |                        | 44      | 5220               | 20.44                  | 20.50            |              |
|                |                        | 48      | 5240               | 20.45                  | 20.50            |              |
|                | 802.11n-HT20<br>MCS0   | 36      | 5180               | 20.37                  | 20.50            | 97.79        |
|                |                        | 40      | 5200               | 20.34                  | 20.50            |              |
|                |                        | 44      | 5220               | 20.46                  | 20.50            |              |
|                |                        | 48      | 5240               | 20.44                  | 20.50            |              |
|                | 802.11n-HT40<br>MCS0   | 38      | 5190               | 20.41                  | 20.50            | 96.46        |
|                |                        | 46      | 5230               | 20.46                  | 20.50            |              |
|                | 802.11ac-VHT20<br>MCS0 | 36      | 5180               | 20.32                  | 20.50            | 96.20        |
|                |                        | 40      | 5200               | 20.28                  | 20.50            |              |
|                |                        | 44      | 5220               | 20.40                  | 20.50            |              |
|                |                        | 48      | 5240               | 20.39                  | 20.50            |              |
|                | 802.11ac-VHT40<br>MCS0 | 38      | 5190               | 20.40                  | 20.50            | 92.76        |
|                |                        | 46      | 5230               | 20.44                  | 20.50            |              |
|                | 802.11ac-VHT80<br>MCS0 | 42      | 5210               | 19.56                  | 20.00            | 87.56        |

| 5.3GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a 6Mbps          | 52      | 5260               | 20.60                  | 21.00            | 97.59        |
|                |                        | 56      | 5280               | 20.49                  | 21.00            |              |
|                |                        | 60      | 5300               | 20.45                  | 21.00            |              |
|                |                        | 64      | 5320               | 20.45                  | 21.00            |              |
|                | 802.11n-HT20<br>MCS0   | 52      | 5260               | 20.51                  | 21.00            | 97.79        |
|                |                        | 56      | 5280               | 20.39                  | 21.00            |              |
|                |                        | 60      | 5300               | 20.43                  | 21.00            |              |
|                |                        | 64      | 5320               | 20.49                  | 21.00            |              |
|                | 802.11n-HT40<br>MCS0   | 54      | 5270               | 20.51                  | 21.00            | 96.46        |
|                |                        | 62      | 5310               | 20.48                  | 21.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 52      | 5260               | 20.48                  | 21.00            | 96.20        |
|                |                        | 56      | 5280               | 20.33                  | 21.00            |              |
|                |                        | 60      | 5300               | 20.35                  | 21.00            |              |
|                |                        | 64      | 5320               | 20.40                  | 21.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 54      | 5270               | 20.47                  | 21.00            | 92.76        |
|                |                        | 62      | 5310               | 20.43                  | 21.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 58      | 5290               | 19.66                  | 20.00            | 87.56        |

| 5.5GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a 6Mbps          | 100     | 5500               | 20.61                  | 21.00            | 97.59        |
|                |                        | 116     | 5580               | 20.48                  | 21.00            |              |
|                |                        | 124     | 5620               | 20.34                  | 21.00            |              |
|                |                        | 132     | 5660               | 20.43                  | 21.00            |              |
|                |                        | 140     | 5700               | 20.46                  | 21.00            |              |
|                |                        | 144     | 5720               | 20.51                  | 21.00            |              |
|                | 802.11n-HT20<br>MCS0   | 100     | 5500               | 20.58                  | 21.00            | 97.79        |
|                |                        | 116     | 5580               | 20.42                  | 21.00            |              |
|                |                        | 124     | 5620               | 20.39                  | 21.00            |              |
|                |                        | 132     | 5660               | 20.31                  | 21.00            |              |
|                |                        | 140     | 5700               | 20.44                  | 21.00            |              |
|                |                        | 144     | 5720               | 20.46                  | 21.00            |              |
|                | 802.11n-HT40<br>MCS0   | 102     | 5510               | 20.57                  | 21.00            | 96.46        |
|                |                        | 110     | 5550               | 20.60                  | 21.00            |              |
|                |                        | 126     | 5630               | 20.34                  | 21.00            |              |
|                |                        | 134     | 5670               | 20.43                  | 21.00            |              |
|                |                        | 142     | 5710               | 20.56                  | 21.00            |              |
|                |                        | 144     | 5720               | 20.56                  | 21.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 100     | 5500               | 20.49                  | 21.00            | 96.20        |
|                |                        | 116     | 5580               | 20.37                  | 21.00            |              |
|                |                        | 124     | 5620               | 20.36                  | 21.00            |              |
|                |                        | 132     | 5660               | 20.41                  | 21.00            |              |
|                |                        | 140     | 5700               | 20.38                  | 21.00            |              |
|                |                        | 144     | 5720               | 20.44                  | 21.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 102     | 5510               | 20.52                  | 21.00            | 92.76        |
|                |                        | 110     | 5550               | 20.54                  | 21.00            |              |
|                |                        | 126     | 5630               | 20.47                  | 21.00            |              |
|                |                        | 134     | 5670               | 20.40                  | 21.00            |              |
|                |                        | 142     | 5710               | 20.54                  | 21.00            |              |
|                |                        | 144     | 5720               | 20.54                  | 21.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 106     | 5530               | 19.61                  | 20.00            | 87.56        |
|                |                        | 122     | 5610               | 19.56                  | 20.00            |              |
|                |                        | 138     | 5690               | 19.61                  | 20.00            |              |



| 5.8GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a MCS0           | 149     | 5745               | 17.57                  | 18.00            | 97.59        |
|                |                        | 157     | 5785               | 17.97                  | 18.00            |              |
|                |                        | 165     | 5825               | 17.68                  | 18.00            |              |
|                | 802.11n-HT20<br>MCS0   | 149     | 5745               | 17.50                  | 18.00            | 97.79        |
|                |                        | 157     | 5785               | 17.78                  | 18.00            |              |
|                |                        | 165     | 5825               | 17.80                  | 18.00            |              |
|                | 802.11n-HT40<br>MCS0   | 151     | 5755               | 17.67                  | 18.00            | 96.46        |
|                |                        | 159     | 5795               | 17.96                  | 18.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 149     | 5745               | 17.37                  | 18.00            | 96.20        |
|                |                        | 157     | 5785               | 17.62                  | 18.00            |              |
|                |                        | 165     | 5825               | 17.59                  | 18.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 151     | 5755               | 17.56                  | 18.00            | 92.76        |
|                |                        | 159     | 5795               | 17.87                  | 18.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 155     | 5775               | 16.87                  | 17.00            | 87.56        |

**<Reduced Power Level 1 for WLAN Only>**
**<2.4GHz WLAN Ant.1>**

| 2.4GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11b 1Mbps          | 1       | 2412               | 15.54                  | 16.50            | 99.31        |
|                |                        | 6       | 2437               | 16.01                  | 16.50            |              |
|                |                        | 11      | 2462               | 15.91                  | 16.50            |              |
|                | 802.11g 6Mbps          | 1       | 2412               | 14.95                  | 16.50            | 98.28        |
|                |                        | 6       | 2437               | 15.41                  | 16.50            |              |
|                |                        | 11      | 2462               | 15.20                  | 16.50            |              |
|                | 802.11n-HT20<br>MCS0   | 1       | 2412               | 13.77                  | 15.50            | 98.16        |
|                |                        | 6       | 2437               | 15.11                  | 15.50            |              |
|                |                        | 11      | 2462               | 15.01                  | 15.50            |              |
|                | 802.11n-HT40<br>MCS0   | 3       | 2422               | 13.53                  | 15.00            | 98.16        |
|                |                        | 6       | 2437               | 15.04                  | 15.50            |              |
|                |                        | 9       | 2452               | 14.95                  | 15.50            |              |
|                | 802.11ac-VHT20<br>MCS0 | 1       | 2412               | 11.99                  | 13.50            | 94.65        |
|                |                        | 6       | 2437               | 13.13                  | 13.50            |              |
|                |                        | 11      | 2462               | 12.27                  | 13.50            |              |
|                | 802.11ac-VHT40<br>MCS0 | 3       | 2422               | 11.87                  | 13.50            | 94.67        |
|                |                        | 6       | 2437               | 13.00                  | 13.50            |              |
|                |                        | 9       | 2452               | 12.22                  | 13.50            |              |

**<2.4GHz WLAN Ant.1+2>**

| 2.4GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11b 1Mbps          | 1       | 2412               | 17.24                  | 18.50            | 99.28        |
|                |                        | 6       | 2437               | 17.87                  | 18.50            |              |
|                |                        | 11      | 2462               | 17.39                  | 18.50            |              |
|                | 802.11g 6Mbps          | 1       | 2412               | 16.62                  | 17.50            | 98.28        |
|                |                        | 6       | 2437               | 17.04                  | 17.50            |              |
|                |                        | 11      | 2462               | 16.88                  | 17.50            |              |
|                | 802.11n-HT20<br>MCS0   | 1       | 2412               | 15.59                  | 17.50            | 98.16        |
|                |                        | 6       | 2437               | 16.90                  | 17.50            |              |
|                |                        | 11      | 2462               | 16.62                  | 17.50            |              |
|                | 802.11n-HT40<br>MCS0   | 3       | 2422               | 15.48                  | 16.00            | 96.21        |
|                |                        | 6       | 2437               | 16.77                  | 17.50            |              |
|                |                        | 9       | 2452               | 16.51                  | 17.50            |              |
|                | 802.11ac-VHT20<br>MCS0 | 1       | 2412               | 13.51                  | 14.50            | 94.78        |
|                |                        | 6       | 2437               | 14.69                  | 15.00            |              |
|                |                        | 11      | 2462               | 13.32                  | 14.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 3       | 2422               | 13.49                  | 14.00            | 90.58        |
|                |                        | 6       | 2437               | 14.55                  | 15.00            |              |
|                |                        | 9       | 2452               | 13.20                  | 14.00            |              |

**<5GHz WLAN Ant.1+2>**

| 5.2GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a 6Mbps          | 36      | 5180               | 17.52                  | 18.00            | 97.59        |
|                |                        | 40      | 5200               | 17.51                  | 18.00            |              |
|                |                        | 44      | 5220               | 17.57                  | 18.00            |              |
|                |                        | 48      | 5240               | 17.62                  | 18.00            |              |
|                | 802.11n-HT20<br>MCS0   | 36      | 5180               | 17.42                  | 18.00            | 97.79        |
|                |                        | 40      | 5200               | 17.33                  | 18.00            |              |
|                |                        | 44      | 5220               | 17.50                  | 18.00            |              |
|                |                        | 48      | 5240               | 17.45                  | 18.00            |              |
|                | 802.11n-HT40<br>MCS0   | 38      | 5190               | 17.49                  | 18.00            | 96.46        |
|                |                        | 46      | 5230               | 17.41                  | 18.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 36      | 5180               | 17.34                  | 18.00            | 96.20        |
|                |                        | 40      | 5200               | 17.31                  | 18.00            |              |
|                |                        | 44      | 5220               | 17.30                  | 18.00            |              |
|                |                        | 48      | 5240               | 17.28                  | 18.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 38      | 5190               | 17.42                  | 18.00            | 92.76        |
|                |                        | 46      | 5230               | 17.38                  | 18.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 42      | 5210               | 16.81                  | 17.00            | 87.56        |

| 5.3GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a 6Mbps          | 52      | 5260               | 17.63                  | 18.00            | 97.59        |
|                |                        | 56      | 5280               | 17.55                  | 18.00            |              |
|                |                        | 60      | 5300               | 17.51                  | 18.00            |              |
|                |                        | 64      | 5320               | 17.45                  | 18.00            |              |
|                | 802.11n-HT20<br>MCS0   | 52      | 5260               | 17.52                  | 18.00            | 97.79        |
|                |                        | 56      | 5280               | 17.38                  | 18.00            |              |
|                |                        | 60      | 5300               | 17.42                  | 18.00            |              |
|                |                        | 64      | 5320               | 17.45                  | 18.00            |              |
|                | 802.11n-HT40<br>MCS0   | 54      | 5270               | 17.50                  | 18.00            | 96.46        |
|                |                        | 62      | 5310               | 17.48                  | 18.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 52      | 5260               | 17.46                  | 18.00            | 96.20        |
|                |                        | 56      | 5280               | 17.31                  | 18.00            |              |
|                |                        | 60      | 5300               | 17.34                  | 18.00            |              |
|                |                        | 64      | 5320               | 17.35                  | 18.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 54      | 5270               | 17.39                  | 18.00            | 92.76        |
|                |                        | 62      | 5310               | 17.44                  | 18.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 58      | 5290               | 16.86                  | 17.00            | 87.56        |

| 5.5GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a 6Mbps          | 100     | 5500               | 17.71                  | 18.00            | 97.59        |
|                |                        | 116     | 5580               | 17.51                  | 18.00            |              |
|                |                        | 124     | 5620               | 17.47                  | 18.00            |              |
|                |                        | 132     | 5660               | 17.52                  | 18.00            |              |
|                |                        | 140     | 5700               | 17.55                  | 18.00            |              |
|                |                        | 144     | 5720               | 17.54                  | 18.00            |              |
|                | 802.11n-HT20<br>MCS0   | 100     | 5500               | 17.46                  | 18.00            | 97.79        |
|                |                        | 116     | 5580               | 17.50                  | 18.00            |              |
|                |                        | 124     | 5620               | 17.45                  | 18.00            |              |
|                |                        | 132     | 5660               | 17.43                  | 18.00            |              |
|                |                        | 140     | 5700               | 17.51                  | 18.00            |              |
|                |                        | 144     | 5720               | 17.52                  | 18.00            |              |
|                | 802.11n-HT40<br>MCS0   | 102     | 5510               | 17.49                  | 18.00            | 96.46        |
|                |                        | 110     | 5550               | 17.43                  | 18.00            |              |
|                |                        | 126     | 5630               | 17.34                  | 18.00            |              |
|                |                        | 134     | 5670               | 17.45                  | 18.00            |              |
|                |                        | 142     | 5710               | 17.53                  | 18.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 100     | 5500               | 17.52                  | 18.00            | 96.20        |
|                |                        | 116     | 5580               | 17.48                  | 18.00            |              |
|                |                        | 124     | 5620               | 17.41                  | 18.00            |              |
|                |                        | 132     | 5660               | 17.37                  | 18.00            |              |
|                |                        | 140     | 5700               | 17.45                  | 18.00            |              |
|                |                        | 144     | 5720               | 17.46                  | 18.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 102     | 5510               | 17.65                  | 18.00            | 92.76        |
|                |                        | 110     | 5550               | 17.64                  | 18.00            |              |
|                |                        | 126     | 5630               | 17.27                  | 18.00            |              |
|                |                        | 134     | 5670               | 17.65                  | 18.00            |              |
|                |                        | 142     | 5710               | 17.39                  | 18.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 106     | 5530               | 16.71                  | 17.00            | 87.56        |
|                |                        | 122     | 5610               | 16.79                  | 17.00            |              |
|                |                        | 138     | 5690               | 16.72                  | 17.00            |              |

| 5.8GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a MCS0           | 149     | 5745               | 17.57                  | 18.00            | 97.59        |
|                |                        | 157     | 5785               | 17.97                  | 18.00            |              |
|                |                        | 165     | 5825               | 17.68                  | 18.00            |              |
|                | 802.11n-HT20<br>MCS0   | 149     | 5745               | 17.50                  | 18.00            | 97.79        |
|                |                        | 157     | 5785               | 17.78                  | 18.00            |              |
|                |                        | 165     | 5825               | 17.80                  | 18.00            |              |
|                | 802.11n-HT40<br>MCS0   | 151     | 5755               | 17.67                  | 18.00            | 96.46        |
|                |                        | 159     | 5795               | 17.96                  | 18.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 149     | 5745               | 17.37                  | 18.00            | 96.20        |
|                |                        | 157     | 5785               | 17.62                  | 18.00            |              |
|                |                        | 165     | 5825               | 17.59                  | 18.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 151     | 5755               | 17.56                  | 18.00            | 92.76        |
|                |                        | 159     | 5795               | 17.87                  | 18.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 155     | 5775               | 16.87                  | 17.00            | 87.56        |

## <Reduced Power Level 2 for WWAN + WLAN 5GHz Simultaneous Transmission>

### <5GHz WLAN Ant.1+2>

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 16.53               | 17.00         | 97.59        |
|             |                     | 40      | 5200            | 16.51               | 17.00         |              |
|             |                     | 44      | 5220            | 16.59               | 17.00         |              |
|             |                     | 48      | 5240            | 16.62               | 17.00         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 16.42               | 17.00         | 97.79        |
|             |                     | 40      | 5200            | 16.33               | 17.00         |              |
|             |                     | 44      | 5220            | 16.51               | 17.00         |              |
|             |                     | 48      | 5240            | 16.46               | 17.00         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 16.50               | 17.00         | 96.46        |
|             |                     | 46      | 5230            | 16.41               | 17.00         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 16.33               | 17.00         | 96.20        |
|             |                     | 40      | 5200            | 16.30               | 17.00         |              |
|             |                     | 44      | 5220            | 16.29               | 17.00         |              |
|             |                     | 48      | 5240            | 16.27               | 17.00         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 16.42               | 17.00         | 92.76        |
|             |                     | 46      | 5230            | 16.36               | 17.00         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 15.81               | 16.00         | 87.56        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | 802.11a 6Mbps       | 52      | 5260            | 16.63               | 17.00         | 97.59        |
|             |                     | 56      | 5280            | 16.57               | 17.00         |              |
|             |                     | 60      | 5300            | 16.52               | 17.00         |              |
|             |                     | 64      | 5320            | 16.46               | 17.00         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 16.53               | 17.00         | 97.79        |
|             |                     | 56      | 5280            | 16.35               | 17.00         |              |
|             |                     | 60      | 5300            | 16.43               | 17.00         |              |
|             |                     | 64      | 5320            | 16.45               | 17.00         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 16.50               | 17.00         | 96.46        |
|             |                     | 62      | 5310            | 16.49               | 17.00         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 16.46               | 17.00         | 96.20        |
|             |                     | 56      | 5280            | 16.31               | 17.00         |              |
|             |                     | 60      | 5300            | 16.33               | 17.00         |              |
|             |                     | 64      | 5320            | 16.35               | 17.00         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 16.39               | 17.00         | 92.76        |
|             |                     | 62      | 5310            | 16.44               | 17.00         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 15.86               | 16.00         | 87.56        |

| 5.5GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a 6Mbps          | 100     | 5500               | 16.71                  | 17.00            | 97.59        |
|                |                        | 116     | 5580               | 16.51                  | 17.00            |              |
|                |                        | 124     | 5620               | 16.47                  | 17.00            |              |
|                |                        | 132     | 5660               | 16.52                  | 17.00            |              |
|                |                        | 140     | 5700               | 16.55                  | 17.00            |              |
|                |                        | 144     | 5720               | 16.54                  | 17.00            |              |
|                | 802.11n-HT20<br>MCS0   | 100     | 5500               | 16.46                  | 17.00            | 97.79        |
|                |                        | 116     | 5580               | 16.50                  | 17.00            |              |
|                |                        | 124     | 5620               | 16.45                  | 17.00            |              |
|                |                        | 132     | 5660               | 16.43                  | 17.00            |              |
|                |                        | 140     | 5700               | 16.51                  | 17.00            |              |
|                |                        | 144     | 5720               | 16.52                  | 17.00            |              |
|                | 802.11n-HT40<br>MCS0   | 102     | 5510               | 16.49                  | 17.00            | 96.46        |
|                |                        | 110     | 5550               | 16.43                  | 17.00            |              |
|                |                        | 126     | 5630               | 16.34                  | 17.00            |              |
|                |                        | 134     | 5670               | 16.45                  | 17.00            |              |
|                |                        | 142     | 5710               | 16.83                  | 17.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 100     | 5500               | 16.52                  | 17.00            | 96.20        |
|                |                        | 116     | 5580               | 16.48                  | 17.00            |              |
|                |                        | 124     | 5620               | 16.41                  | 17.00            |              |
|                |                        | 132     | 5660               | 16.37                  | 17.00            |              |
|                |                        | 140     | 5700               | 16.45                  | 17.00            |              |
|                |                        | 144     | 5720               | 16.46                  | 17.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 102     | 5510               | 16.65                  | 17.00            | 92.76        |
|                |                        | 110     | 5550               | 16.64                  | 17.00            |              |
|                |                        | 126     | 5630               | 16.27                  | 17.00            |              |
|                |                        | 134     | 5670               | 16.65                  | 17.00            |              |
|                |                        | 142     | 5710               | 16.39                  | 17.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 106     | 5530               | 15.71                  | 16.00            | 87.56        |
|                |                        | 122     | 5610               | 15.79                  | 16.00            |              |
|                |                        | 138     | 5690               | 15.72                  | 16.00            |              |

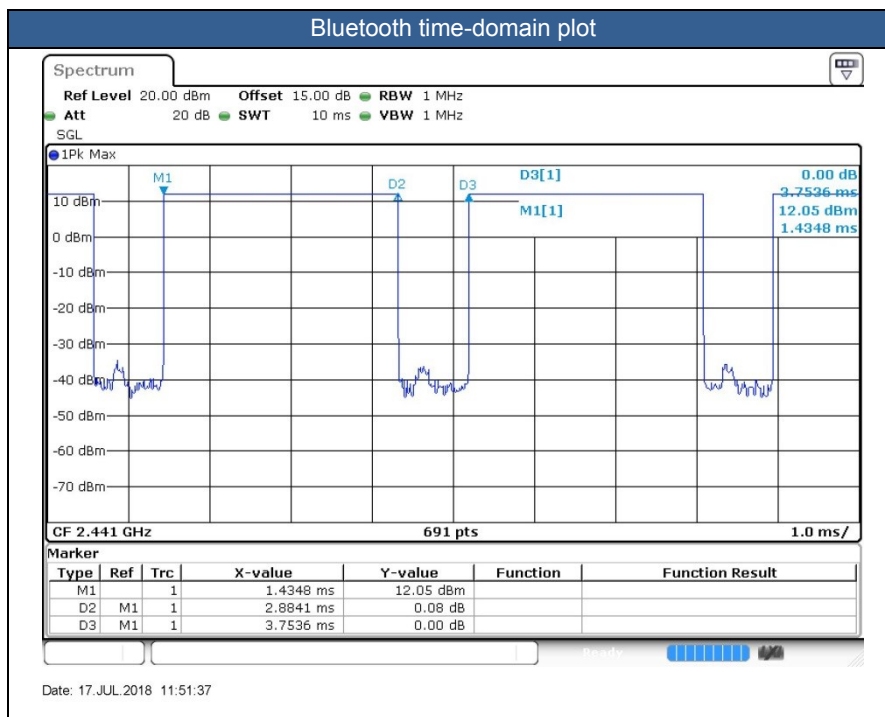


| 5.8GHz<br>WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |
|----------------|------------------------|---------|--------------------|------------------------|------------------|--------------|
|                | 802.11a MCS0           | 149     | 5745               | 16.67                  | 17.00            | 97.59        |
|                |                        | 157     | 5785               | 16.98                  | 17.00            |              |
|                |                        | 165     | 5825               | 16.72                  | 17.00            |              |
|                | 802.11n-HT20<br>MCS0   | 149     | 5745               | 16.58                  | 17.00            | 97.79        |
|                |                        | 157     | 5785               | 16.67                  | 17.00            |              |
|                |                        | 165     | 5825               | 16.70                  | 17.00            |              |
|                | 802.11n-HT40<br>MCS0   | 151     | 5755               | 16.76                  | 17.00            | 96.46        |
|                |                        | 159     | 5795               | 16.96                  | 17.00            |              |
|                | 802.11ac-VHT20<br>MCS0 | 149     | 5745               | 16.53                  | 17.00            | 96.20        |
|                |                        | 157     | 5785               | 16.66                  | 17.00            |              |
|                |                        | 165     | 5825               | 16.67                  | 17.00            |              |
|                | 802.11ac-VHT40<br>MCS0 | 151     | 5755               | 16.66                  | 17.00            | 92.76        |
|                |                        | 159     | 5795               | 16.83                  | 17.00            |              |
|                | 802.11ac-VHT80<br>MCS0 | 155     | 5775               | 15.96                  | 16.00            | 87.56        |

## <2.4GHz Bluetooth>

### General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle is 76.84 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.

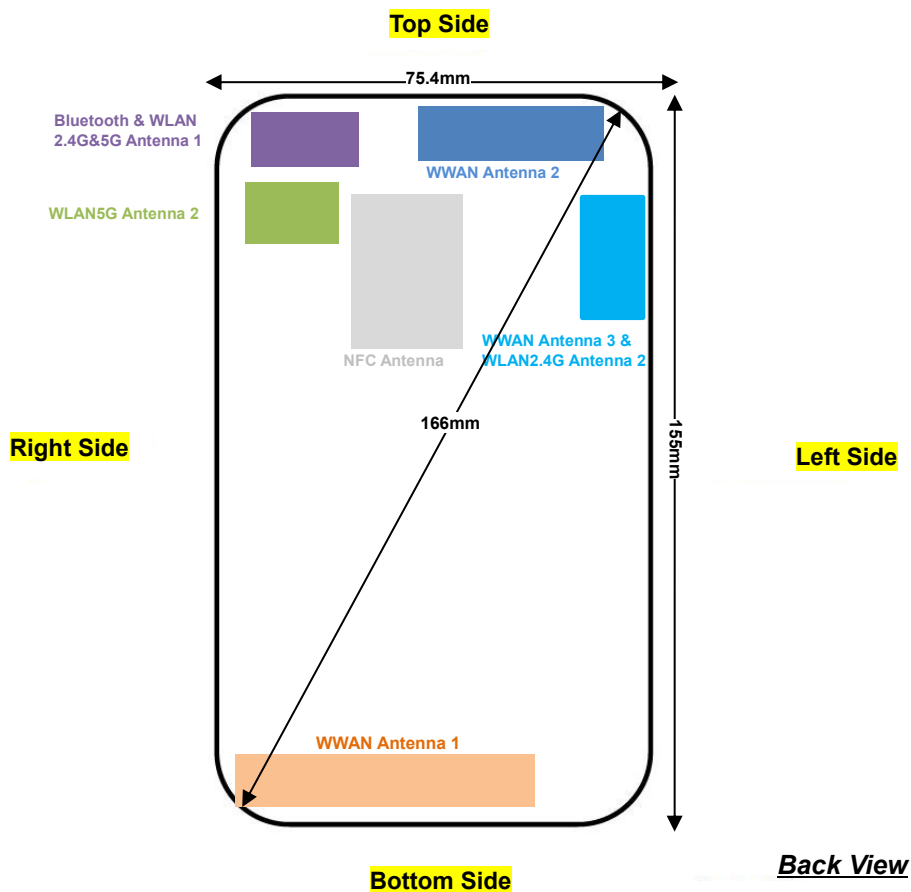


| Mode                | Channel | Frequency (MHz) | Average power (dBm) |
|---------------------|---------|-----------------|---------------------|
|                     |         |                 | 1Mbps               |
| v3.0 with EDR       | CH 00   | 2402            | 12.73               |
|                     | CH 39   | 2441            | 12.71               |
|                     | CH 78   | 2480            | 12.18               |
| Tune-up limit (dBm) |         |                 | 13.10               |

| Mode                 | Channel | Frequency (MHz) | Average power (dBm) |
|----------------------|---------|-----------------|---------------------|
|                      |         |                 | GFSK                |
| v4.0/4.1/4.2 with LE | CH 00   | 2402            | 12.55               |
|                      | CH 19   | 2440            | 12.53               |
|                      | CH 39   | 2480            | 11.97               |
| Tune-up limit (dBm)  |         |                 | 13.00               |

| Mode                | Channel | Frequency (MHz) | Average power (dBm) |
|---------------------|---------|-----------------|---------------------|
|                     |         |                 | GFSK                |
| v5.0 with LE        | CH 00   | 2402            | 12.79               |
|                     | CH 19   | 2440            | 12.76               |
|                     | CH 39   | 2480            | 12.31               |
| Tune-up limit (dBm) |         |                 | 13.00               |

### 13. Antenna Location



| Antenna                             | Support Band                                                                                                           |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| WWAN Antenna 1                      | GSM: 850 / 1900<br>WCDMA: B2 / B4 / B5<br>CDMA: BC0/BC1<br>LTE: B2 / B4 / B5 / B12 / B13 / B17 / B25 / B26 / B66 / B71 |
| WWAN Antenna 2                      | GSM: 850 / 1900<br>WCDMA: B2 / B4 / B5<br>CDMA: BC0/BC1<br>LTE: B2 / B4 / B5 / B12 / B13 / B17 / B25 / B26 / B66 / B71 |
| WWAN Antenna 3 & WLAN2.4G Antenna 2 | LTE: B7 / B30 / B38 / B41<br>WLAN 2.4GHz                                                                               |
| Bluetooth & WLAN2.4G&5G Antenna 1   | Bluetooth<br>WLAN 2.4GHz<br>WLAN 5GHz                                                                                  |
| WLAN 5G Antenna 2                   | WLAN 5GHz                                                                                                              |

| Distance of the Antenna to the EUT surface/edge |        |        |          |             |            |           |
|-------------------------------------------------|--------|--------|----------|-------------|------------|-----------|
| Antennas                                        | Back   | Front  | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Antenna 1                                  | ≤ 25mm | ≤ 25mm | >25mm    | ≤ 25mm      | ≤ 25mm     | ≤ 25mm    |
| WWAN Antenna 2                                  | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | >25mm      | ≤ 25mm    |
| WWAN Antenna 3 & WLAN2.4G Antenna 2             | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | >25mm      | ≤ 25mm    |
| Bluetooth & WLAN2.4G&5G Antenna 1               | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | ≤ 25mm     | >25mm     |
| WLAN 5G Antenna 2                               | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | ≤ 25mm     | >25mm     |

| Positions for SAR tests; Hotspot mode |      |       |          |             |            |           |
|---------------------------------------|------|-------|----------|-------------|------------|-----------|
| Antennas                              | Back | Front | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Antenna 1                        | Yes  | Yes   | No       | Yes         | Yes        | Yes       |
| WWAN Antenna 2                        | Yes  | Yes   | Yes      | No          | No         | Yes       |
| WWAN Antenna 3 & WLAN2.4G Antenna 2   | Yes  | Yes   | Yes      | No          | No         | Yes       |
| Bluetooth & WLAN2.4G&5G Antenna 1     | Yes  | Yes   | Yes      | No          | Yes        | No        |
| WLAN 5G Antenna 2                     | Yes  | Yes   | Yes      | No          | Yes        | No        |

**General Note:**

Referring to KDB 941225 D06 v02r01, when the overall device length and width are  $\geq 9\text{cm} \times 5\text{cm}$ , the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

## 14. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of BT/WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result.  
The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
  - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8W/kg for 1g SAR and 2.0W/Kg for 10g SAR.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. This device has two antennas. The primary cellular antenna is located on the bottom edge of the device and the secondary cellular antenna is located on the top edge of the device and can't transmit simultaneously.
6. For WLAN transmitter  
Head exposure conditions:  
Reduced power level 1 –When the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for WLAN2.4GHz ant 1, ant1+2 and all WLAN 5GHz MIMO.  
  
Reduced power level 2 –While the device WLAN 5GHz(all WLAN5GHz bands)is transmitting simultaneously with the WWAN antenna 1/2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off.
7. There are totally two power reduction levels of WWAN antenna 1, four power reduction levels of WWAN antenna 2/3.  
More detail descriptions of the power reduction mechanism could refer as below:
  - 1) For WWAN antenna 1 (2 sets of power reduction levels).
    - a) Hotspot exposure condition:  
Reduced power level 1 – GSM1900, WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B25 / B66  
While the device WWAN is transmitting at the WWAN antenna 1, and hotspot mode is enabled, power reduction enabled for those bands.
    - b) Product specific 10g SAR exposure conditions – WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B25 / B66  
P-sensor can detect handheld state, for product specific 10g SAR condition, reduced powers will be active for those bands.
  - 2) For WWAN antenna 2/3 (4 sets of power reduction levels).  
Head exposure conditions:  
Reduced power level 1 – GSM850/1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1, LTE B2 / B4 / B5 / B7 / B13 / B25 / B26 / B30 / B38 / B41 / B66, LTE Uplink CA CA\_7C and CA\_41C. While the device is transmitting at the WWAN antenna 2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for those bands.  
  
Reduced power level 2 – GSM 850/1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41 / B66 / B71, LTE Uplink CA CA\_7C and CA\_41C.  
While the device WLAN 2.4GHz is transmitting simultaneously with the WWAN antenna 2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for those bands.  
  
Reduced power level 3 – GSM 850/1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41 / B66 / B71, LTE Uplink CA CA\_7C and CA\_41C.



While the device WLAN 5GHz is transmitting simultaneously with the WWAN antenna 2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for those bands.

CDMA BC1, LTE B26 / B30: reduced power level 3 is the same as the reduced power level 2 configuration.

8. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
  - a. For this device, WWAN transmitter scaled to reduced power mode for product specific 10g SAR is higher than 1.2W/kg of GSM 1900, WCDMA B2 / B4, CDMA BC1 and LTE B2 / B4 / B25 / B66, therefore product specific SAR is necessary.
  - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
  - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

**GSM Note:**

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.
3. GPRS (3Tx slots) for GSM850/GSM1900 when EUT operating others with power back-off or without power back-off is considered as the primary mode for WWAN antenna 1 and antenna 2.
4. Power reduction which is triggered by hotspot mode is implemented in GSM1900 band for WWAN antenna 1, for hotspot mode SAR testing EUT was set in reduced mode and GPRS (3Tx slots) due to its highest frame-average power.
5. GPRS (1Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900 for WWAN antenna 2 is chosen for perform SAR testing when reduced Power Level 1.
6. GPRS (3Tx slots) for GSM850/GSM1900 for WWAN antenna 2 is chosen for perform SAR testing when reduced Power Level 2/3.

**WCDMA Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

**CDMA2000 Note:**

1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.



**LTE Note:**

1. Per KDB 941225 D05v02r05, start with 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.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, 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 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.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. Per FCC KDB inquiry guidance, the following applied to intra-band contiguous UL CA only;
  - a. Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05. The required test channel should be associated with the UL PCC. For channels at the ends of a frequency band, the SCC and subsequent CCs are added to the side within the transmission band. Otherwise, the CCs should be added alternatively to either side of the PCC
  - b. UL CA SAR is measured for each exposure condition in each frequency band using the highest SAR configuration tested in standalone LTE mode to establish the UL CA PCC. The SCC and subsequent CC must use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions.
  - c. When the SAR configuration tested in step b) has a maximum output power specification more than  $\frac{1}{4}$  dB lower than the highest maximum output power conditions measured in the power measurements in step a) above and the reported SAR in step b) is larger than 1.2 W/kg, SAR measurement is also required for the configuration in step a)
  - d. All standalone SAR configurations with SAR  $> 1.2$  W/kg must also be tested by applying the procedures in step b)
7. For LTE B4 / B5 / B12 / B17/ B26 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
8. LTE B17 / B4 / B2 / B38 SAR test was covered by B12 / B66 / B25 / B41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. The maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion.
  - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

**WLAN Note:**

1. For 2.4GHz WLAN each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. For 5GHz WLAN, SAR testing was performed on MIMO mode since it can't transmit in SISO mode, so only evaluate MIMO mode SAR.
3. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when 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.
4. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band.
5. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
6. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
7. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

**14.1 Head SAR****<GSM SAR>**

| Plot No. | Antenna | Band    | Mode             | Test Position | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|------------------|---------------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 01       | 2       | GSM850  | GPRS(1 Tx slot)  | Right Cheek   | Reduced Level 1 | 251 | 848.8       | 32.91               | 33.30               | 1.094                  | 0.05             | 0.963                  | <b>1.053</b>           |
|          | 2       | GSM850  | GPRS(1 Tx slot)  | Right Tilted  | Reduced Level 1 | 251 | 848.8       | 32.91               | 33.30               | 1.094                  | 0.07             | 0.857                  | 0.938                  |
|          | 2       | GSM850  | GPRS(1 Tx slot)  | Left Cheek    | Reduced Level 1 | 251 | 848.8       | 32.91               | 33.30               | 1.094                  | 0.04             | 0.471                  | 0.515                  |
|          | 2       | GSM850  | GPRS(1 Tx slot)  | Left Tilted   | Reduced Level 1 | 251 | 848.8       | 32.91               | 33.30               | 1.094                  | 0.02             | 0.502                  | 0.549                  |
|          | 2       | GSM850  | GPRS(1 Tx slot)  | Right Cheek   | Reduced Level 1 | 128 | 824.2       | 32.83               | 33.30               | 1.114                  | 0.06             | 0.865                  | 0.964                  |
|          | 2       | GSM850  | GPRS(1 Tx slot)  | Right Cheek   | Reduced Level 1 | 189 | 836.4       | 32.82               | 33.30               | 1.117                  | 0.18             | 0.824                  | 0.920                  |
|          | 2       | GSM850  | GPRS(1 Tx slot)  | Right Tilted  | Reduced Level 1 | 128 | 824.2       | 32.83               | 33.30               | 1.114                  | 0.08             | 0.763                  | 0.850                  |
|          | 2       | GSM850  | GPRS(1 Tx slot)  | Right Tilted  | Reduced Level 1 | 189 | 836.4       | 32.82               | 33.30               | 1.117                  | 0.03             | 0.813                  | 0.908                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Cheek   | Reduced Level 2 | 251 | 848.8       | 25.61               | 26.80               | 1.315                  | 0.05             | 0.688                  | 0.905                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Tilted  | Reduced Level 2 | 251 | 848.8       | 25.61               | 26.80               | 1.315                  | 0.15             | 0.648                  | 0.852                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Left Cheek    | Reduced Level 2 | 251 | 848.8       | 25.61               | 26.80               | 1.315                  | 0.04             | 0.421                  | 0.554                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Left Tilted   | Reduced Level 2 | 251 | 848.8       | 25.61               | 26.80               | 1.315                  | 0.03             | 0.385                  | 0.506                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Cheek   | Reduced Level 2 | 128 | 824.2       | 25.58               | 26.80               | 1.324                  | -0.09            | 0.503                  | 0.666                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Cheek   | Reduced Level 2 | 189 | 836.4       | 25.27               | 26.80               | 1.422                  | 0.17             | 0.619                  | 0.880                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Tilted  | Reduced Level 2 | 128 | 824.2       | 25.58               | 26.80               | 1.324                  | 0.03             | 0.472                  | 0.625                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Tilted  | Reduced Level 2 | 189 | 836.4       | 25.27               | 26.80               | 1.422                  | 0.13             | 0.551                  | 0.784                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Cheek   | Reduced Level 3 | 251 | 848.8       | 24.78               | 25.80               | 1.265                  | 0.03             | 0.510                  | 0.645                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Tilted  | Reduced Level 3 | 251 | 848.8       | 24.78               | 25.80               | 1.265                  | 0.07             | 0.489                  | 0.618                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Left Cheek    | Reduced Level 3 | 251 | 848.8       | 24.78               | 25.80               | 1.265                  | 0.02             | 0.337                  | 0.426                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Left Tilted   | Reduced Level 3 | 251 | 848.8       | 24.78               | 25.80               | 1.265                  | 0.03             | 0.360                  | 0.455                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Cheek   | Reduced Level 3 | 128 | 824.2       | 24.66               | 25.80               | 1.300                  | 0.07             | 0.382                  | 0.497                  |
|          | 2       | GSM850  | GPRS(3 Tx slot)  | Right Cheek   | Reduced Level 3 | 189 | 836.4       | 24.42               | 25.80               | 1.374                  | 0.05             | 0.459                  | 0.631                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Right Cheek   | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.02             | 0.112                  | 0.129                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Right Tilted  | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.01             | 0.066                  | 0.076                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Left Cheek    | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | -0.03            | 0.145                  | 0.167                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Left Tilted   | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.01             | 0.066                  | 0.076                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Left Cheek    | Full            | 128 | 824.2       | 28.88               | 29.80               | 1.236                  | 0.05             | 0.156                  | 0.193                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Left Cheek    | Full            | 189 | 836.4       | 29.05               | 29.80               | 1.189                  | 0.01             | 0.167                  | 0.198                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Cheek   | Reduced Level 1 | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.01             | 0.864                  | 1.013                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Tilted  | Reduced Level 1 | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.03             | 0.897                  | 1.051                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Left Cheek    | Reduced Level 1 | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.09             | 0.223                  | 0.261                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Left Tilted   | Reduced Level 1 | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.02             | 0.215                  | 0.252                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Cheek   | Reduced Level 1 | 512 | 1850.2      | 25.18               | 26.00               | 1.208                  | 0.07             | 0.890                  | 1.075                  |
| 02       | 2       | GSM1900 | GPRS(3 Tx slots) | Right Cheek   | Reduced Level 1 | 661 | 1880        | 25.29               | 26.00               | 1.178                  | 0.04             | 1.030                  | <b>1.213</b>           |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Tilted  | Reduced Level 1 | 512 | 1850.2      | 25.18               | 26.00               | 1.208                  | 0.04             | 0.773                  | 0.934                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Tilted  | Reduced Level 1 | 661 | 1880        | 25.29               | 26.00               | 1.178                  | 0.08             | 0.939                  | 1.106                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Cheek   | Reduced Level 2 | 810 | 1909.8      | 23.12               | 24.00               | 1.225                  | 0.14             | 0.649                  | 0.795                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Tilted  | Reduced Level 2 | 810 | 1909.8      | 23.12               | 24.00               | 1.225                  | 0.07             | 0.672                  | 0.823                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Left Cheek    | Reduced Level 2 | 810 | 1909.8      | 23.12               | 24.00               | 1.225                  | 0.05             | 0.221                  | 0.271                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Left Tilted   | Reduced Level 2 | 810 | 1909.8      | 23.12               | 24.00               | 1.225                  | 0.04             | 0.370                  | 0.453                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Tilted  | Reduced Level 2 | 512 | 1850.2      | 23.07               | 24.00               | 1.239                  | 0.05             | 0.667                  | 0.826                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Tilted  | Reduced Level 2 | 661 | 1880        | 23.02               | 24.00               | 1.253                  | 0.04             | 0.771                  | 0.966                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Cheek   | Reduced Level 3 | 810 | 1909.8      | 22.41               | 23.00               | 1.146                  | 0.09             | 0.629                  | 0.721                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Tilted  | Reduced Level 3 | 810 | 1909.8      | 22.41               | 23.00               | 1.146                  | 0.06             | 0.446                  | 0.511                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Left Cheek    | Reduced Level 3 | 810 | 1909.8      | 22.41               | 23.00               | 1.146                  | 0.04             | 0.179                  | 0.205                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Left Tilted   | Reduced Level 3 | 810 | 1909.8      | 22.41               | 23.00               | 1.146                  | 0.02             | 0.162                  | 0.186                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Cheek   | Reduced Level 3 | 512 | 1850.2      | 22.26               | 23.00               | 1.186                  | 0.08             | 0.498                  | 0.591                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Right Cheek   | Reduced Level 3 | 661 | 1880        | 22.25               | 23.00               | 1.189                  | 0.07             | 0.559                  | 0.664                  |



# FCC SAR Test Report

Report No. : FA871004-01

|  |   |         |                  |              |      |     |        |       |       |       |      |       |       |
|--|---|---------|------------------|--------------|------|-----|--------|-------|-------|-------|------|-------|-------|
|  | 1 | GSM1900 | GPRS(3 Tx slots) | Right Cheek  | Full | 810 | 1909.8 | 25.31 | 26.00 | 1.172 | 0.05 | 0.054 | 0.063 |
|  | 1 | GSM1900 | GPRS(3 Tx slots) | Right Tilted | Full | 810 | 1909.8 | 25.31 | 26.00 | 1.172 | 0.08 | 0.012 | 0.014 |
|  | 1 | GSM1900 | GPRS(3 Tx slots) | Left Cheek   | Full | 810 | 1909.8 | 25.31 | 26.00 | 1.172 | 0.01 | 0.005 | 0.006 |
|  | 1 | GSM1900 | GPRS(3 Tx slots) | Left Tilted  | Full | 810 | 1909.8 | 25.31 | 26.00 | 1.172 | 0.06 | 0.002 | 0.002 |
|  | 1 | GSM1900 | GPRS(3 Tx slots) | Right Cheek  | Full | 512 | 1850.2 | 25.18 | 26.00 | 1.208 | 0.05 | 0.043 | 0.052 |
|  | 1 | GSM1900 | GPRS(3 Tx slots) | Right Cheek  | Full | 661 | 1880   | 25.29 | 26.00 | 1.178 | 0.02 | 0.050 | 0.059 |

## <WCDMA SAR>

| Plot No. | Antenna | Band         | Mode         | Test Position | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|--------------|--------------|---------------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 4182 | 836.4       | 22.14               | 23.00               | 1.219                  | 0.03             | 0.869                  | 1.059                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 4182 | 836.4       | 22.14               | 23.00               | 1.219                  | 0.03             | 0.872                  | 1.063                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Left Cheek    | Reduced Level 1 | 4182 | 836.4       | 22.14               | 23.00               | 1.219                  | -0.03            | 0.569                  | 0.694                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Left Tilted   | Reduced Level 1 | 4182 | 836.4       | 22.14               | 23.00               | 1.219                  | 0.11             | 0.519                  | 0.633                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 4132 | 826.4       | 22.06               | 23.00               | 1.242                  | 0.09             | 0.822                  | 1.021                  |
| 03       | 2       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 4233 | 846.6       | 22.00               | 23.00               | 1.259                  | 0.02             | 0.930                  | 1.171                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 4132 | 826.4       | 22.06               | 23.00               | 1.242                  | 0.07             | 0.755                  | 0.937                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 4233 | 846.6       | 22.00               | 23.00               | 1.259                  | 0.13             | 0.827                  | 1.041                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 4182 | 836.4       | 20.65               | 21.50               | 1.216                  | 0.05             | 0.630                  | 0.766                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Reduced Level 2 | 4182 | 836.4       | 20.65               | 21.50               | 1.216                  | 0.06             | 0.610                  | 0.742                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Left Cheek    | Reduced Level 2 | 4182 | 836.4       | 20.65               | 21.50               | 1.216                  | 0.05             | 0.370                  | 0.450                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Left Tilted   | Reduced Level 2 | 4182 | 836.4       | 20.65               | 21.50               | 1.216                  | 0.02             | 0.406                  | 0.494                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 4132 | 826.4       | 20.55               | 21.50               | 1.245                  | 0.03             | 0.617                  | 0.768                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 4233 | 846.6       | 20.51               | 21.50               | 1.256                  | 0.02             | 0.656                  | 0.824                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Reduced Level 3 | 4182 | 836.4       | 19.62               | 20.50               | 1.225                  | 0.04             | 0.464                  | 0.568                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Reduced Level 3 | 4182 | 836.4       | 19.62               | 20.50               | 1.225                  | -0.04            | 0.482                  | 0.590                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Left Cheek    | Reduced Level 3 | 4182 | 836.4       | 19.62               | 20.50               | 1.225                  | 0.02             | 0.353                  | 0.432                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Left Tilted   | Reduced Level 3 | 4182 | 836.4       | 19.62               | 20.50               | 1.225                  | 0.04             | 0.295                  | 0.361                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Reduced Level 3 | 4132 | 826.4       | 19.55               | 20.50               | 1.245                  | -0.03            | 0.475                  | 0.591                  |
|          | 2       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Reduced Level 3 | 4233 | 846.6       | 19.48               | 20.50               | 1.265                  | -0.01            | 0.494                  | 0.625                  |
|          | 1       | WCDMA Band V | RMC 12.2Kbps | Right Cheek   | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | -0.02            | 0.099                  | 0.113                  |
|          | 1       | WCDMA Band V | RMC 12.2Kbps | Right Tilted  | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.05             | 0.051                  | 0.058                  |
|          | 1       | WCDMA Band V | RMC 12.2Kbps | Left Cheek    | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.07             | 0.151                  | 0.173                  |
|          | 1       | WCDMA Band V | RMC 12.2Kbps | Left Tilted   | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.01             | 0.069                  | 0.079                  |
|          | 1       | WCDMA Band V | RMC 12.2Kbps | Left Cheek    | Full            | 4132 | 826.4       | 23.88               | 24.50               | 1.153                  | 0.04             | 0.139                  | 0.160                  |
|          | 1       | WCDMA Band V | RMC 12.2Kbps | Left Cheek    | Full            | 4233 | 846.6       | 23.89               | 24.50               | 1.151                  | 0.01             | 0.154                  | 0.177                  |



# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band          | Mode         | Test Position | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------------|--------------|---------------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 1513 | 1752.6      | 21.08               | 21.50               | 1.102                  | 0.02             | 1.170                  | 1.289                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 1513 | 1752.6      | 21.08               | 21.50               | 1.102                  | 0.11             | 1.110                  | 1.223                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Left Cheek    | Reduced Level 1 | 1513 | 1752.6      | 21.08               | 21.50               | 1.102                  | 0.13             | 0.407                  | 0.448                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Left Tilted   | Reduced Level 1 | 1513 | 1752.6      | 21.08               | 21.50               | 1.102                  | 0.09             | 0.451                  | 0.497                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 1312 | 1712.4      | 20.96               | 21.50               | 1.132                  | 0.04             | 1.120                  | 1.268                  |
| 04       | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 1413 | 1732.6      | 20.98               | 21.50               | 1.127                  | 0.17             | 1.150                  | 1.296                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 1312 | 1712.4      | 20.96               | 21.50               | 1.132                  | 0.02             | 1.030                  | 1.166                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 1413 | 1732.6      | 20.98               | 21.50               | 1.127                  | 0.03             | 1.080                  | 1.217                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 1513 | 1752.6      | 19.09               | 19.50               | 1.099                  | 0.08             | 0.787                  | 0.865                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Tilted  | Reduced Level 2 | 1513 | 1752.6      | 19.09               | 19.50               | 1.099                  | 0.01             | 0.674                  | 0.741                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Left Cheek    | Reduced Level 2 | 1513 | 1752.6      | 19.09               | 19.50               | 1.099                  | 0.05             | 0.316                  | 0.347                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Left Tilted   | Reduced Level 2 | 1513 | 1752.6      | 19.09               | 19.50               | 1.099                  | 0.04             | 0.274                  | 0.301                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 1312 | 1712.4      | 18.96               | 19.50               | 1.132                  | 0.06             | 0.792                  | 0.897                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 1413 | 1732.6      | 18.98               | 19.50               | 1.127                  | 0.02             | 0.824                  | 0.929                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 3 | 1513 | 1752.6      | 18.58               | 19.00               | 1.102                  | 0.07             | 0.735                  | 0.810                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Tilted  | Reduced Level 3 | 1513 | 1752.6      | 18.58               | 19.00               | 1.102                  | 0.03             | 0.632                  | 0.696                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Left Cheek    | Reduced Level 3 | 1513 | 1752.6      | 18.58               | 19.00               | 1.102                  | 0.02             | 0.241                  | 0.265                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Left Tilted   | Reduced Level 3 | 1513 | 1752.6      | 18.58               | 19.00               | 1.102                  | 0.01             | 0.280                  | 0.308                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 3 | 1312 | 1712.4      | 18.48               | 19.00               | 1.127                  | 0.03             | 0.700                  | 0.789                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Reduced Level 3 | 1413 | 1732.6      | 18.47               | 19.00               | 1.130                  | 0.09             | 0.760                  | 0.859                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.01             | 0.126                  | 0.137                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Right Tilted  | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.09             | 0.087                  | 0.095                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Left Cheek    | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.08             | 0.095                  | 0.103                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Left Tilted   | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.04             | 0.086                  | 0.094                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Full            | 1312 | 1712.4      | 24.41               | 25.00               | 1.146                  | 0.04             | 0.169                  | 0.194                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Right Cheek   | Full            | 1413 | 1732.6      | 24.61               | 25.00               | 1.094                  | 0.01             | 0.151                  | 0.165                  |
| 05       | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 9262 | 1852.4      | 20.15               | 20.50               | 1.084                  | 0.07             | 1.070                  | 1.160                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 9262 | 1852.4      | 20.15               | 20.50               | 1.084                  | 0.03             | 0.998                  | 1.082                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Left Cheek    | Reduced Level 1 | 9262 | 1852.4      | 20.15               | 20.50               | 1.084                  | 0.01             | 0.376                  | 0.408                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Left Tilted   | Reduced Level 1 | 9262 | 1852.4      | 20.15               | 20.50               | 1.084                  | 0.04             | 0.422                  | 0.457                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 9400 | 1880        | 20.14               | 20.50               | 1.086                  | 0.07             | 0.931                  | 1.011                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 1 | 9538 | 1907.6      | 20.12               | 20.50               | 1.091                  | 0.09             | 0.987                  | 1.077                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 9400 | 1880        | 20.14               | 20.50               | 1.086                  | 0.06             | 0.937                  | 1.018                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Tilted  | Reduced Level 1 | 9538 | 1907.6      | 20.12               | 20.50               | 1.091                  | 0.02             | 0.986                  | 1.076                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 9262 | 1852.4      | 18.67               | 19.00               | 1.079                  | 0.02             | 0.659                  | 0.711                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Tilted  | Reduced Level 2 | 9262 | 1852.4      | 18.67               | 19.00               | 1.079                  | 0.09             | 0.513                  | 0.553                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Left Cheek    | Reduced Level 2 | 9262 | 1852.4      | 18.67               | 19.00               | 1.079                  | 0.03             | 0.206                  | 0.222                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Left Tilted   | Reduced Level 2 | 9262 | 1852.4      | 18.67               | 19.00               | 1.079                  | 0.05             | 0.196                  | 0.211                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 9400 | 1880        | 18.61               | 19.00               | 1.094                  | 0.08             | 0.688                  | 0.753                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 2 | 9538 | 1907.6      | 18.66               | 19.00               | 1.081                  | 0.06             | 0.808                  | 0.874                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 3 | 9262 | 1852.4      | 18.19               | 18.50               | 1.074                  | 0.04             | 0.606                  | 0.651                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Tilted  | Reduced Level 3 | 9262 | 1852.4      | 18.19               | 18.50               | 1.074                  | 0.08             | 0.491                  | 0.527                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Left Cheek    | Reduced Level 3 | 9262 | 1852.4      | 18.19               | 18.50               | 1.074                  | -0.02            | 0.201                  | 0.216                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Left Tilted   | Reduced Level 3 | 9262 | 1852.4      | 18.19               | 18.50               | 1.074                  | 0.04             | 0.187                  | 0.201                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 3 | 9400 | 1880        | 18.14               | 18.50               | 1.086                  | 0.01             | 0.634                  | 0.689                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Reduced Level 3 | 9538 | 1907.6      | 18.18               | 18.50               | 1.076                  | 0.07             | 0.729                  | 0.785                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.05             | 0.118                  | 0.133                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Right Tilted  | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | -0.03            | 0.089                  | 0.100                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Left Cheek    | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.01             | 0.080                  | 0.090                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Left Tilted   | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.06             | 0.096                  | 0.108                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Full            | 9400 | 1880        | 24.42               | 25.00               | 1.143                  | 0.08             | 0.130                  | 0.149                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Right Cheek   | Full            | 9538 | 1907.6      | 24.45               | 25.00               | 1.135                  | 0.01             | 0.144                  | 0.163                  |





**<CDMA2000 SAR>**

| Plot No. | Antenna | Band         | Mode     | Test Position | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|--------------|----------|---------------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 1 | 384  | 836.52      | 22.50               | 23.00               | 1.122                  | 0.08             | 1.040                  | 1.167                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Tilted  | Reduced Level 1 | 384  | 836.52      | 22.50               | 23.00               | 1.122                  | -0.04            | 0.804                  | 0.902                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Left Cheek    | Reduced Level 1 | 384  | 836.52      | 22.50               | 23.00               | 1.122                  | 0.05             | 0.621                  | 0.697                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Left Tilted   | Reduced Level 1 | 384  | 836.52      | 22.50               | 23.00               | 1.122                  | 0.07             | 0.570                  | 0.640                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 1 | 1013 | 824.7       | 22.41               | 23.00               | 1.146                  | 0.05             | 0.993                  | 1.137                  |
| 06       | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 1 | 777  | 848.31      | 22.43               | 23.00               | 1.140                  | 0.01             | 1.120                  | 1.277                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Tilted  | Reduced Level 1 | 1013 | 824.7       | 22.41               | 23.00               | 1.146                  | -0.01            | 0.978                  | 1.120                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Tilted  | Reduced Level 1 | 777  | 848.31      | 22.43               | 23.00               | 1.140                  | 0.08             | 1.010                  | 1.152                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 2 | 384  | 836.52      | 20.44               | 21.00               | 1.138                  | 0.06             | 0.641                  | 0.729                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Tilted  | Reduced Level 2 | 384  | 836.52      | 20.44               | 21.00               | 1.138                  | 0.02             | 0.549                  | 0.625                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Left Cheek    | Reduced Level 2 | 384  | 836.52      | 20.44               | 21.00               | 1.138                  | 0.01             | 0.386                  | 0.439                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Left Tilted   | Reduced Level 2 | 384  | 836.52      | 20.44               | 21.00               | 1.138                  | 0.05             | 0.344                  | 0.391                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 2 | 1013 | 824.7       | 20.41               | 21.00               | 1.146                  | 0.03             | 0.648                  | 0.742                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 2 | 777  | 848.31      | 20.40               | 21.00               | 1.148                  | 0.05             | 0.719                  | 0.826                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 3 | 384  | 836.52      | 19.95               | 20.50               | 1.135                  | 0.07             | 0.545                  | 0.619                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Tilted  | Reduced Level 3 | 384  | 836.52      | 19.95               | 20.50               | 1.135                  | 0.02             | 0.489                  | 0.555                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Left Cheek    | Reduced Level 3 | 384  | 836.52      | 19.95               | 20.50               | 1.135                  | 0.04             | 0.347                  | 0.394                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Left Tilted   | Reduced Level 3 | 384  | 836.52      | 19.95               | 20.50               | 1.135                  | 0.01             | 0.313                  | 0.355                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 3 | 1013 | 824.7       | 19.91               | 20.50               | 1.146                  | 0.05             | 0.556                  | 0.637                  |
|          | 2       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Reduced Level 3 | 777  | 848.31      | 19.92               | 20.50               | 1.143                  | 0.08             | 0.616                  | 0.704                  |
|          | 1       | CDMA2000 BC0 | RC3+SO55 | Right Cheek   | Full            | 384  | 836.52      | 24.18               | 24.50               | 1.076                  | 0.05             | 0.113                  | 0.122                  |
|          | 1       | CDMA2000 BC0 | RC3+SO55 | Right Tilted  | Full            | 384  | 836.52      | 24.18               | 24.50               | 1.076                  | 0.08             | 0.093                  | 0.100                  |
|          | 1       | CDMA2000 BC0 | RC3+SO55 | Left Cheek    | Full            | 384  | 836.52      | 24.18               | 24.50               | 1.076                  | 0.01             | 0.177                  | 0.191                  |
|          | 1       | CDMA2000 BC0 | RC3+SO55 | Left Tilted   | Full            | 384  | 836.52      | 24.18               | 24.50               | 1.076                  | 0.02             | 0.098                  | 0.105                  |
|          | 1       | CDMA2000 BC0 | RC3+SO55 | Left Cheek    | Full            | 1013 | 824.7       | 24.09               | 24.50               | 1.099                  | -0.03            | 0.174                  | 0.191                  |
|          | 1       | CDMA2000 BC0 | RC3+SO55 | Left Cheek    | Full            | 777  | 848.31      | 24.03               | 24.50               | 1.114                  | 0.02             | 0.200                  | 0.223                  |
| 07       | 2       | CDMA2000 BC1 | RC3+SO55 | Right Cheek   | Reduced Level 1 | 1175 | 1908.75     | 19.75               | 20.50               | 1.189                  | 0.02             | 0.862                  | 1.024                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Tilted  | Reduced Level 1 | 1175 | 1908.75     | 19.75               | 20.50               | 1.189                  | 0.09             | 0.858                  | 1.020                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Left Cheek    | Reduced Level 1 | 1175 | 1908.75     | 19.75               | 20.50               | 1.189                  | 0.05             | 0.285                  | 0.339                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Left Tilted   | Reduced Level 1 | 1175 | 1908.75     | 19.75               | 20.50               | 1.189                  | 0.04             | 0.376                  | 0.447                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Cheek   | Reduced Level 1 | 25   | 1851.25     | 19.74               | 20.50               | 1.191                  | 0.08             | 0.831                  | 0.990                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Cheek   | Reduced Level 1 | 600  | 1880        | 19.60               | 20.50               | 1.230                  | 0.04             | 0.729                  | 0.897                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Tilted  | Reduced Level 1 | 25   | 1851.25     | 19.74               | 20.50               | 1.191                  | 0.04             | 0.844                  | 1.005                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Tilted  | Reduced Level 1 | 600  | 1880        | 19.60               | 20.50               | 1.230                  | 0.08             | 0.812                  | 0.999                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Cheek   | Reduced Level 2 | 1175 | 1908.75     | 18.25               | 19.00               | 1.189                  | 0.05             | 0.593                  | 0.705                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Tilted  | Reduced Level 2 | 1175 | 1908.75     | 18.25               | 19.00               | 1.189                  | 0.06             | 0.605                  | 0.719                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Left Cheek    | Reduced Level 2 | 1175 | 1908.75     | 18.25               | 19.00               | 1.189                  | 0.09             | 0.226                  | 0.269                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Left Tilted   | Reduced Level 2 | 1175 | 1908.75     | 18.25               | 19.00               | 1.189                  | 0.06             | 0.274                  | 0.326                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Tilted  | Reduced Level 2 | 25   | 1851.25     | 18.24               | 19.00               | 1.191                  | 0.02             | 0.643                  | 0.766                  |
|          | 2       | CDMA2000 BC1 | RC3+SO55 | Right Tilted  | Reduced Level 2 | 600  | 1880        | 18.11               | 19.00               | 1.227                  | 0.09             | 0.678                  | 0.832                  |
|          | 1       | CDMA2000 BC1 | RC3+SO55 | Right Cheek   | Full            | 1175 | 1908.75     | 23.97               | 24.50               | 1.130                  | 0.03             | 0.142                  | 0.160                  |
|          | 1       | CDMA2000 BC1 | RC3+SO55 | Right Tilted  | Full            | 1175 | 1908.75     | 23.97               | 24.50               | 1.130                  | 0.01             | 0.082                  | 0.093                  |
|          | 1       | CDMA2000 BC1 | RC3+SO55 | Left Cheek    | Full            | 1175 | 1908.75     | 23.97               | 24.50               | 1.130                  | 0.05             | 0.092                  | 0.104                  |
|          | 1       | CDMA2000 BC1 | RC3+SO55 | Left Tilted   | Full            | 1175 | 1908.75     | 23.97               | 24.50               | 1.130                  | 0.02             | 0.105                  | 0.119                  |
|          | 1       | CDMA2000 BC1 | RC3+SO55 | Right Cheek   | Full            | 25   | 1851.25     | 23.78               | 24.50               | 1.180                  | 0.03             | 0.106                  | 0.125                  |
|          | 1       | CDMA2000 BC1 | RC3+SO55 | Right Cheek   | Full            | 600  | 1880        | 23.85               | 24.50               | 1.161                  | 0.05             | 0.123                  | 0.143                  |



**<FDD LTE SAR>**

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 08       | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.09             | 1.150                  | 1.235                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.04             | 1.170                  | 1.257                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.08             | 0.737                  | 0.792                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.05             | 0.611                  | 0.656                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.01             | 0.955                  | 1.038                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.05             | 0.873                  | 0.948                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.02             | 0.605                  | 0.657                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.05             | 0.640                  | 0.695                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Full            | 133322 | 683         | 23.38               | 23.80               | 1.102                  | 0.07             | 0.870                  | 0.958                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 100     | 0         | Right Tilted  | Full            | 133322 | 683         | 23.38               | 23.80               | 1.102                  | -0.03            | 0.806                  | 0.888                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 133322 | 683         | 22.18               | 22.80               | 1.153                  | 0.05             | 0.680                  | 0.784                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 133322 | 683         | 22.18               | 22.80               | 1.153                  | 0.02             | 0.639                  | 0.737                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 133322 | 683         | 22.18               | 22.80               | 1.153                  | 0.07             | 0.432                  | 0.498                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 133322 | 683         | 22.18               | 22.80               | 1.153                  | 0.04             | 0.371                  | 0.428                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 133322 | 683         | 22.12               | 22.80               | 1.169                  | 0.02             | 0.705                  | 0.824                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 133322 | 683         | 22.12               | 22.80               | 1.169                  | 0.01             | 0.662                  | 0.774                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 2 | 133322 | 683         | 22.12               | 22.80               | 1.169                  | 0.08             | 0.454                  | 0.531                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 2 | 133322 | 683         | 22.12               | 22.80               | 1.169                  | 0.01             | 0.361                  | 0.422                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 2 | 133322 | 683         | 22.09               | 22.80               | 1.178                  | 0.03             | 0.692                  | 0.815                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 133322 | 683         | 21.62               | 22.30               | 1.169                  | 0.03             | 0.595                  | 0.696                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 3 | 133322 | 683         | 21.62               | 22.30               | 1.169                  | 0.05             | 0.558                  | 0.653                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 3 | 133322 | 683         | 21.62               | 22.30               | 1.169                  | 0.01             | 0.371                  | 0.434                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 3 | 133322 | 683         | 21.62               | 22.30               | 1.169                  | 0.07             | 0.307                  | 0.359                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 3 | 133322 | 683         | 21.63               | 22.30               | 1.167                  | 0.05             | 0.621                  | 0.725                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 3 | 133322 | 683         | 21.63               | 22.30               | 1.167                  | 0.05             | 0.586                  | 0.684                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 3 | 133322 | 683         | 21.63               | 22.30               | 1.167                  | 0.02             | 0.391                  | 0.456                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 3 | 133322 | 683         | 21.63               | 22.30               | 1.167                  | 0.09             | 0.326                  | 0.380                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.01             | 0.055                  | 0.059                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.06             | 0.010                  | 0.011                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.03             | 0.083                  | 0.089                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.01             | 0.031                  | 0.033                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.05             | 0.046                  | 0.050                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.02             | 0.008                  | 0.009                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.04             | 0.070                  | 0.076                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.08             | 0.025                  | 0.027                  |



# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 09       | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | 0.09             | 0.958                  | 1.087                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | 0.04             | 0.941                  | 1.068                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | 0.08             | 0.667                  | 0.757                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | 0.02             | 0.587                  | 0.666                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | 0.06             | 0.813                  | 0.906                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | 0.08             | 0.783                  | 0.872                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | 0.07             | 0.539                  | 0.601                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | 0.01             | 0.466                  | 0.519                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Full            | 23095 | 707.5       | 23.01               | 23.50               | 1.119                  | 0.05             | 0.807                  | 0.903                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 50      | 0         | Right Tilted  | Full            | 23095 | 707.5       | 23.01               | 23.50               | 1.119                  | 0.01             | 0.808                  | 0.905                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 23095 | 707.5       | 21.88               | 22.50               | 1.153                  | 0.08             | 0.852                  | 0.983                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 23095 | 707.5       | 21.88               | 22.50               | 1.153                  | 0.02             | 0.576                  | 0.664                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 23095 | 707.5       | 21.88               | 22.50               | 1.153                  | -0.05            | 0.422                  | 0.487                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 23095 | 707.5       | 21.88               | 22.50               | 1.153                  | 0.05             | 0.364                  | 0.420                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 2 | 23095 | 707.5       | 21.91               | 22.50               | 1.146                  | 0.03             | 0.822                  | 0.942                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 2 | 23095 | 707.5       | 21.91               | 22.50               | 1.146                  | 0.07             | 0.547                  | 0.627                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 2 | 23095 | 707.5       | 21.91               | 22.50               | 1.146                  | 0.04             | 0.396                  | 0.454                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 2 | 23095 | 707.5       | 21.91               | 22.50               | 1.146                  | 0.05             | 0.353                  | 0.404                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 23095 | 707.5       | 21.67               | 22.50               | 1.211                  | 0.06             | 0.672                  | 0.814                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 23095 | 707.5       | 21.37               | 22.00               | 1.156                  | 0.04             | 0.597                  | 0.690                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 3 | 23095 | 707.5       | 21.37               | 22.00               | 1.156                  | 0.05             | 0.536                  | 0.620                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 3 | 23095 | 707.5       | 21.37               | 22.00               | 1.156                  | 0.01             | 0.391                  | 0.452                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 3 | 23095 | 707.5       | 21.37               | 22.00               | 1.156                  | 0.08             | 0.389                  | 0.450                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 3 | 23095 | 707.5       | 21.17               | 22.00               | 1.211                  | -0.03            | 0.548                  | 0.663                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 3 | 23095 | 707.5       | 21.17               | 22.00               | 1.211                  | 0.03             | 0.537                  | 0.650                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 3 | 23095 | 707.5       | 21.17               | 22.00               | 1.211                  | 0.04             | 0.386                  | 0.467                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 3 | 23095 | 707.5       | 21.17               | 22.00               | 1.211                  | 0.01             | 0.417                  | 0.505                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | -0.05            | 0.078                  | 0.088                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | -0.03            | 0.044                  | 0.050                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | 0.02             | 0.099                  | 0.112                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Full            | 23095 | 707.5       | 23.95               | 24.50               | 1.135                  | 0.04             | 0.046                  | 0.052                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | 0.05             | 0.061                  | 0.068                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | 0.08             | 0.036                  | 0.041                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | -0.1             | 0.078                  | 0.086                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Full            | 23095 | 707.5       | 23.03               | 23.50               | 1.114                  | 0.01             | 0.038                  | 0.043                  |



# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 10       | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Cheek   | Reduced Level 1 | 23230 | 782         | 23.17               | 24.00               | 1.211                  | 0.07             | 0.953                  | 1.154                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Tilted  | Reduced Level 1 | 23230 | 782         | 23.17               | 24.00               | 1.211                  | 0.09             | 0.788                  | 0.954                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Cheek    | Reduced Level 1 | 23230 | 782         | 23.17               | 24.00               | 1.211                  | 0.09             | 0.571                  | 0.691                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Tilted   | Reduced Level 1 | 23230 | 782         | 23.17               | 24.00               | 1.211                  | 0.04             | 0.487                  | 0.590                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 1 | 23230 | 782         | 22.78               | 23.00               | 1.052                  | 0.01             | 0.876                  | 0.922                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 1 | 23230 | 782         | 22.78               | 23.00               | 1.052                  | 0.08             | 0.707                  | 0.744                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 1 | 23230 | 782         | 22.78               | 23.00               | 1.052                  | 0.04             | 0.507                  | 0.533                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 1 | 23230 | 782         | 22.78               | 23.00               | 1.052                  | 0.03             | 0.432                  | 0.454                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 23230 | 782         | 22.76               | 23.00               | 1.057                  | 0.01             | 0.813                  | 0.859                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 23230 | 782         | 22.76               | 23.00               | 1.057                  | 0.04             | 0.698                  | 0.738                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Cheek   | Reduced Level 2 | 23230 | 782         | 21.98               | 22.50               | 1.127                  | 0.01             | 0.922                  | 1.039                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Tilted  | Reduced Level 2 | 23230 | 782         | 21.98               | 22.50               | 1.127                  | 0.02             | 0.723                  | 0.815                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Cheek    | Reduced Level 2 | 23230 | 782         | 21.98               | 22.50               | 1.127                  | 0.05             | 0.480                  | 0.541                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Tilted   | Reduced Level 2 | 23230 | 782         | 21.98               | 22.50               | 1.127                  | 0.04             | 0.404                  | 0.455                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 2 | 23230 | 782         | 21.78               | 22.50               | 1.180                  | 0.02             | 0.887                  | 1.047                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 2 | 23230 | 782         | 21.78               | 22.50               | 1.180                  | 0.05             | 0.707                  | 0.834                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 2 | 23230 | 782         | 21.78               | 22.50               | 1.180                  | 0.07             | 0.460                  | 0.543                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 2 | 23230 | 782         | 21.78               | 22.50               | 1.180                  | 0.05             | 0.366                  | 0.432                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 23230 | 782         | 21.74               | 22.50               | 1.191                  | 0.03             | 0.833                  | 0.992                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 23230 | 782         | 21.74               | 22.50               | 1.191                  | 0.04             | 0.776                  | 0.924                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Cheek   | Reduced Level 3 | 23230 | 782         | 21.35               | 22.00               | 1.161                  | 0.06             | 0.746                  | 0.866                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Tilted  | Reduced Level 3 | 23230 | 782         | 21.35               | 22.00               | 1.161                  | 0.07             | 0.628                  | 0.729                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Cheek    | Reduced Level 3 | 23230 | 782         | 21.35               | 22.00               | 1.161                  | 0.07             | 0.381                  | 0.443                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Tilted   | Reduced Level 3 | 23230 | 782         | 21.35               | 22.00               | 1.161                  | 0.01             | 0.378                  | 0.439                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 3 | 23230 | 782         | 21.24               | 22.00               | 1.191                  | 0.02             | 0.745                  | 0.887                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 3 | 23230 | 782         | 21.24               | 22.00               | 1.191                  | 0.07             | 0.613                  | 0.730                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 3 | 23230 | 782         | 21.24               | 22.00               | 1.191                  | 0.01             | 0.375                  | 0.447                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 3 | 23230 | 782         | 21.24               | 22.00               | 1.191                  | 0.04             | 0.385                  | 0.459                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 3 | 23230 | 782         | 21.19               | 22.00               | 1.205                  | -0.02            | 0.721                  | 0.869                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Cheek   | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | -0.03            | 0.082                  | 0.092                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Tilted  | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.05             | 0.044                  | 0.049                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Cheek    | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.03             | 0.122                  | 0.137                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Tilted   | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | -0.11            | 0.068                  | 0.076                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.04             | 0.069                  | 0.077                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.07             | 0.034                  | 0.038                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.03             | 0.097                  | 0.108                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | -0.03            | 0.057                  | 0.064                  |





| Plot No. | Antenna | Band       | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|----------|------------|---------|-----------|---------------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 20525 | 836.5       | 23.3                | 24.00               | 1.175                  | 0.02             | 0.752                  | 0.884                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 20525 | 836.5       | 23.3                | 24.00               | 1.175                  | 0.03             | 1.030                  | 1.210                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 20525 | 836.5       | 23.3                | 24.00               | 1.175                  | -0.03            | 0.697                  | 0.819                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 20525 | 836.5       | 23.3                | 24.00               | 1.175                  | 0.02             | 0.637                  | 0.748                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 1 | 20525 | 836.5       | 22.89               | 23.50               | 1.151                  | 0.03             | 0.735                  | 0.846                  |
| 11       | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 1 | 20525 | 836.5       | 22.89               | 23.50               | 1.151                  | 0.01             | 1.090                  | 1.254                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 1 | 20525 | 836.5       | 22.89               | 23.50               | 1.151                  | -0.02            | 0.648                  | 0.746                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 1 | 20525 | 836.5       | 22.89               | 23.50               | 1.151                  | 0.07             | 0.602                  | 0.693                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 20525 | 836.5       | 22.8                | 23.50               | 1.175                  | 0.11             | 0.935                  | 1.099                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 20525 | 836.5       | 22.8                | 23.50               | 1.175                  | 0.02             | 0.984                  | 1.156                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 1 | 20525 | 836.5       | 22.8                | 23.50               | 1.175                  | 0.03             | 0.643                  | 0.755                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 20525 | 836.5       | 22.08               | 22.50               | 1.102                  | -0.03            | 0.771                  | 0.849                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 20525 | 836.5       | 22.08               | 22.50               | 1.102                  | 0.02             | 0.701                  | 0.772                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 20525 | 836.5       | 22.08               | 22.50               | 1.102                  | 0.04             | 0.445                  | 0.490                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 20525 | 836.5       | 22.08               | 22.50               | 1.102                  | 0.01             | 0.408                  | 0.449                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 2 | 20525 | 836.5       | 22.05               | 22.50               | 1.109                  | -0.03            | 0.802                  | 0.890                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 2 | 20525 | 836.5       | 22.05               | 22.50               | 1.109                  | 0.06             | 0.737                  | 0.817                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 2 | 20525 | 836.5       | 22.05               | 22.50               | 1.109                  | 0.01             | 0.387                  | 0.429                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 2 | 20525 | 836.5       | 22.05               | 22.50               | 1.109                  | 0.07             | 0.358                  | 0.397                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 20525 | 836.5       | 21.99               | 22.50               | 1.125                  | 0.02             | 0.825                  | 0.928                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 20525 | 836.5       | 21.99               | 22.50               | 1.125                  | 0.09             | 0.754                  | 0.848                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 20525 | 836.5       | 20.93               | 21.50               | 1.140                  | 0.02             | 0.631                  | 0.719                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 3 | 20525 | 836.5       | 20.93               | 21.50               | 1.140                  | 0.05             | 0.571                  | 0.651                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 3 | 20525 | 836.5       | 20.93               | 21.50               | 1.140                  | 0.04             | 0.369                  | 0.421                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 3 | 20525 | 836.5       | 20.93               | 21.50               | 1.140                  | 0.01             | 0.407                  | 0.464                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Reduced Level 3 | 20525 | 836.5       | 20.88               | 21.50               | 1.153                  | 0.08             | 0.658                  | 0.759                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Reduced Level 3 | 20525 | 836.5       | 20.88               | 21.50               | 1.153                  | 0.04             | 0.584                  | 0.674                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Reduced Level 3 | 20525 | 836.5       | 20.88               | 21.50               | 1.153                  | 0.07             | 0.395                  | 0.456                  |
|          | 2       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Reduced Level 3 | 20525 | 836.5       | 20.88               | 21.50               | 1.153                  | -0.02            | 0.419                  | 0.483                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.11             | 0.107                  | 0.117                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.07             | 0.070                  | 0.076                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | -0.02            | 0.145                  | 0.159                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.01             | 0.063                  | 0.069                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Cheek   | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.02             | 0.086                  | 0.092                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Right Tilted  | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.12             | 0.058                  | 0.062                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Cheek    | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.08             | 0.123                  | 0.132                  |
|          | 1       | LTE Band 5 | 10M      | QPSK       | 25      | 12        | Left Tilted   | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.02             | 0.050                  | 0.053                  |



| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 12       | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 26965 | 841.5       | 22.86               | 23.50               | 1.159                  | -0.16            | 1.090                  | <b>1.263</b>           |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 26965 | 841.5       | 22.86               | 23.50               | 1.159                  | -0.02            | 1.050                  | 1.217                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 26965 | 841.5       | 22.86               | 23.50               | 1.159                  | 0.06             | 0.714                  | 0.827                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 26965 | 841.5       | 22.86               | 23.50               | 1.159                  | -0.03            | 0.436                  | 0.505                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 26765 | 821.5       | 22.77               | 23.50               | 1.183                  | 0.03             | 0.973                  | 1.151                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 26865 | 831.5       | 22.85               | 23.50               | 1.161                  | 0.06             | 0.739                  | 0.858                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 26765 | 821.5       | 22.77               | 23.50               | 1.183                  | 0.02             | 0.900                  | 1.065                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 26865 | 831.5       | 22.85               | 23.50               | 1.161                  | 0.09             | 0.711                  | 0.826                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 26765 | 821.5       | 22.77               | 23.50               | 1.183                  | 0.08             | 0.694                  | 0.821                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 26865 | 831.5       | 22.85               | 23.50               | 1.161                  | 0.08             | 0.705                  | 0.819                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | Reduced Level 1 | 26965 | 841.5       | 22.43               | 23.00               | 1.140                  | 0.05             | 0.955                  | 1.089                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Tilted  | Reduced Level 1 | 26965 | 841.5       | 22.43               | 23.00               | 1.140                  | 0.06             | 0.882                  | 1.006                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Cheek    | Reduced Level 1 | 26965 | 841.5       | 22.43               | 23.00               | 1.140                  | 0.01             | 0.662                  | 0.755                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Tilted   | Reduced Level 1 | 26965 | 841.5       | 22.43               | 23.00               | 1.140                  | -0.05            | 0.416                  | 0.474                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | Reduced Level 1 | 26765 | 821.5       | 22.4                | 23.00               | 1.148                  | 0.08             | 1.060                  | 1.217                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | Reduced Level 1 | 26865 | 831.5       | 22.34               | 23.00               | 1.164                  | 0.04             | 1.010                  | 1.176                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Tilted  | Reduced Level 1 | 26765 | 821.5       | 22.4                | 23.00               | 1.148                  | 0.06             | 0.839                  | 0.963                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Tilted  | Reduced Level 1 | 26865 | 831.5       | 22.34               | 23.00               | 1.164                  | -0.02            | 0.592                  | 0.689                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 75      | 0         | Right Cheek   | Reduced Level 1 | 26965 | 841.5       | 22.33               | 23.00               | 1.167                  | 0.08             | 0.862                  | 1.006                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 75      | 0         | Right Tilted  | Reduced Level 1 | 26965 | 841.5       | 22.33               | 23.00               | 1.167                  | 0.06             | 0.865                  | 1.009                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 75      | 0         | Left Cheek    | Reduced Level 1 | 26965 | 841.5       | 22.33               | 23.00               | 1.167                  | 0.04             | 0.653                  | 0.762                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 26965 | 841.5       | 20.59               | 21.00               | 1.099                  | 0.03             | 0.668                  | 0.734                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 26965 | 841.5       | 20.59               | 21.00               | 1.099                  | 0.08             | 0.466                  | 0.512                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 26965 | 841.5       | 20.59               | 21.00               | 1.099                  | 0.02             | 0.227                  | 0.249                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 26965 | 841.5       | 20.59               | 21.00               | 1.099                  | 0.06             | 0.199                  | 0.219                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | Reduced Level 2 | 26965 | 841.5       | 20.45               | 21.00               | 1.135                  | 0.07             | 0.720                  | 0.817                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Tilted  | Reduced Level 2 | 26965 | 841.5       | 20.45               | 21.00               | 1.135                  | 0.08             | 0.507                  | 0.575                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Cheek    | Reduced Level 2 | 26965 | 841.5       | 20.45               | 21.00               | 1.135                  | 0.01             | 0.243                  | 0.276                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Tilted   | Reduced Level 2 | 26965 | 841.5       | 20.45               | 21.00               | 1.135                  | 0.01             | 0.209                  | 0.237                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | Reduced Level 2 | 26765 | 821.5       | 20.41               | 21.00               | 1.146                  | 0.16             | 0.536                  | 0.614                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | Reduced Level 2 | 26865 | 831.5       | 20.32               | 21.00               | 1.169                  | 0.04             | 0.539                  | 0.630                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 75      | 0         | Right Cheek   | Reduced Level 2 | 26965 | 841.5       | 20.27               | 21.00               | 1.183                  | 0.08             | 0.515                  | 0.609                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | -0.03            | 0.093                  | 0.100                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Tilted  | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.05             | 0.081                  | 0.087                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.04             | 0.146                  | 0.158                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Tilted   | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.06             | 0.085                  | 0.092                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 26765 | 821.5       | 23.43               | 24.00               | 1.140                  | 0.08             | 0.140                  | 0.160                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 26865 | 831.5       | 23.53               | 24.00               | 1.114                  | -0.03            | 0.145                  | 0.162                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Cheek   | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.05             | 0.074                  | 0.078                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Tilted  | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.01             | 0.059                  | 0.062                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Cheek    | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.15             | 0.116                  | 0.123                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Tilted   | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.04             | 0.067                  | 0.071                  |



| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 132322 | 1745        | 20.44               | 21.00               | 1.138                  | 0.12             | 1.040                  | 1.183                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 132322 | 1745        | 20.44               | 21.00               | 1.138                  | 0.08             | 1.030                  | 1.172                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 132322 | 1745        | 20.44               | 21.00               | 1.138                  | 0.16             | 0.380                  | 0.432                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 132322 | 1745        | 20.44               | 21.00               | 1.138                  | 0.09             | 0.376                  | 0.428                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 132072 | 1720        | 20.32               | 21.00               | 1.169                  | 0.11             | 0.870                  | 1.017                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 132572 | 1770        | 20.40               | 21.00               | 1.148                  | 0.14             | 0.895                  | 1.028                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 132072 | 1720        | 20.32               | 21.00               | 1.169                  | 0.12             | 0.879                  | 1.028                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 132572 | 1770        | 20.40               | 21.00               | 1.148                  | 0.13             | 0.962                  | 1.105                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 132322 | 1745        | 20.42               | 21.00               | 1.143                  | 0.18             | 1.020                  | 1.166                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 132322 | 1745        | 20.42               | 21.00               | 1.143                  | 0.05             | 1.010                  | 1.154                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 1 | 132322 | 1745        | 20.42               | 21.00               | 1.143                  | 0.07             | 0.383                  | 0.438                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 1 | 132322 | 1745        | 20.42               | 21.00               | 1.143                  | 0.09             | 0.375                  | 0.429                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 132072 | 1720        | 20.27               | 21.00               | 1.183                  | 0.06             | 0.871                  | 1.030                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 132572 | 1770        | 20.33               | 21.00               | 1.167                  | 0.02             | 0.866                  | 1.010                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 132072 | 1720        | 20.27               | 21.00               | 1.183                  | 0.03             | 0.906                  | 1.072                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 132572 | 1770        | 20.33               | 21.00               | 1.167                  | 0.05             | 0.958                  | 1.118                  |
| 13       | 2       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 1 | 132322 | 1745        | 20.3                | 21.00               | 1.175                  | 0.03             | 1.060                  | 1.245                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Right Tilted  | Reduced Level 1 | 132322 | 1745        | 20.3                | 21.00               | 1.175                  | 0.01             | 0.979                  | 1.150                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 132322 | 1745        | 19.57               | 20.00               | 1.104                  | 0.04             | 0.945                  | 1.043                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 132322 | 1745        | 19.57               | 20.00               | 1.104                  | 0.05             | 0.759                  | 0.838                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 132322 | 1745        | 19.57               | 20.00               | 1.104                  | 0.07             | 0.282                  | 0.311                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 132322 | 1745        | 19.57               | 20.00               | 1.104                  | 0.06             | 0.378                  | 0.417                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 132072 | 1720        | 19.29               | 20.00               | 1.178                  | 0.01             | 0.613                  | 0.722                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 132572 | 1770        | 19.33               | 20.00               | 1.167                  | 0.03             | 0.865                  | 1.009                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 132072 | 1720        | 19.29               | 20.00               | 1.178                  | 0.08             | 0.773                  | 0.910                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 132572 | 1770        | 19.33               | 20.00               | 1.167                  | 0.09             | 0.747                  | 0.872                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 132322 | 1745        | 18.97               | 19.50               | 1.130                  | 0.04             | 0.899                  | 1.016                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 132322 | 1745        | 18.97               | 19.50               | 1.130                  | 0.08             | 0.771                  | 0.871                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 2 | 132322 | 1745        | 18.97               | 19.50               | 1.130                  | 0.04             | 0.286                  | 0.323                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 2 | 132322 | 1745        | 18.97               | 19.50               | 1.130                  | 0.01             | 0.365                  | 0.412                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 132072 | 1720        | 18.79               | 19.50               | 1.178                  | 0.09             | 0.676                  | 0.796                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 132572 | 1770        | 18.83               | 19.50               | 1.167                  | 0.06             | 0.879                  | 1.026                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 132072 | 1720        | 18.79               | 19.50               | 1.178                  | 0.07             | 0.770                  | 0.907                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 132572 | 1770        | 18.83               | 19.50               | 1.167                  | 0.11             | 0.818                  | 0.954                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 2 | 132322 | 1745        | 18.82               | 19.50               | 1.169                  | 0.01             | 0.765                  | 0.895                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Right Tilted  | Reduced Level 2 | 132322 | 1745        | 18.82               | 19.50               | 1.169                  | 0.09             | 0.915                  | 1.070                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 132322 | 1745        | 18.7                | 19.50               | 1.202                  | 0.08             | 0.760                  | 0.914                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 3 | 132322 | 1745        | 18.7                | 19.50               | 1.202                  | 0.14             | 0.609                  | 0.732                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 3 | 132322 | 1745        | 18.7                | 19.50               | 1.202                  | 0.13             | 0.266                  | 0.320                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 3 | 132322 | 1745        | 18.7                | 19.50               | 1.202                  | 0.11             | 0.286                  | 0.344                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 132072 | 1720        | 18.31               | 19.50               | 1.315                  | 0.09             | 0.602                  | 0.792                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 132572 | 1770        | 18.50               | 19.50               | 1.259                  | 0.08             | 0.778                  | 0.979                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 3 | 132322 | 1745        | 18.48               | 19.00               | 1.127                  | 0.07             | 0.719                  | 0.810                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 3 | 132322 | 1745        | 18.48               | 19.00               | 1.127                  | 0.02             | 0.611                  | 0.689                  |



# FCC SAR Test Report

Report No. : FA871004-01

|  |   |             |     |      |     |   |              |                 |        |      |       |       |       |      |       |       |
|--|---|-------------|-----|------|-----|---|--------------|-----------------|--------|------|-------|-------|-------|------|-------|-------|
|  | 2 | LTE Band 66 | 20M | QPSK | 50  | 0 | Left Cheek   | Reduced Level 3 | 132322 | 1745 | 18.48 | 19.00 | 1.127 | 0.11 | 0.270 | 0.304 |
|  | 2 | LTE Band 66 | 20M | QPSK | 50  | 0 | Left Tilted  | Reduced Level 3 | 132322 | 1745 | 18.48 | 19.00 | 1.127 | 0.09 | 0.289 | 0.326 |
|  | 2 | LTE Band 66 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 3 | 132072 | 1720 | 18.33 | 19.00 | 1.167 | 0.13 | 0.621 | 0.725 |
|  | 2 | LTE Band 66 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 3 | 132572 | 1770 | 18.37 | 19.00 | 1.156 | 0.11 | 0.763 | 0.882 |
|  | 2 | LTE Band 66 | 20M | QPSK | 100 | 0 | Right Cheek  | Reduced Level 3 | 132322 | 1745 | 18.36 | 19.00 | 1.159 | 0.1  | 0.688 | 0.797 |
|  | 1 | LTE Band 66 | 20M | QPSK | 1   | 0 | Right Cheek  | Full            | 132322 | 1745 | 24.14 | 24.50 | 1.086 | 0.07 | 0.113 | 0.123 |
|  | 1 | LTE Band 66 | 20M | QPSK | 1   | 0 | Right Tilted | Full            | 132322 | 1745 | 24.14 | 24.50 | 1.086 | 0.17 | 0.089 | 0.097 |
|  | 1 | LTE Band 66 | 20M | QPSK | 1   | 0 | Left Cheek   | Full            | 132322 | 1745 | 24.14 | 24.50 | 1.086 | 0.05 | 0.090 | 0.098 |
|  | 1 | LTE Band 66 | 20M | QPSK | 1   | 0 | Left Tilted  | Full            | 132322 | 1745 | 24.14 | 24.50 | 1.086 | 0.09 | 0.068 | 0.074 |
|  | 1 | LTE Band 66 | 20M | QPSK | 1   | 0 | Right Cheek  | Full            | 132072 | 1720 | 23.88 | 24.50 | 1.153 | 0.02 | 0.122 | 0.141 |
|  | 1 | LTE Band 66 | 20M | QPSK | 1   | 0 | Right Cheek  | Full            | 132572 | 1770 | 23.95 | 24.50 | 1.135 | 0.03 | 0.098 | 0.111 |
|  | 1 | LTE Band 66 | 20M | QPSK | 50  | 0 | Right Cheek  | Full            | 132322 | 1745 | 23.13 | 23.50 | 1.089 | 0.04 | 0.079 | 0.086 |
|  | 1 | LTE Band 66 | 20M | QPSK | 50  | 0 | Right Tilted | Full            | 132322 | 1745 | 23.13 | 23.50 | 1.089 | 0.02 | 0.071 | 0.077 |
|  | 1 | LTE Band 66 | 20M | QPSK | 50  | 0 | Left Cheek   | Full            | 132322 | 1745 | 23.13 | 23.50 | 1.089 | 0.08 | 0.069 | 0.075 |
|  | 1 | LTE Band 66 | 20M | QPSK | 50  | 0 | Left Tilted  | Full            | 132322 | 1745 | 23.13 | 23.50 | 1.089 | 0.07 | 0.055 | 0.060 |



# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 26590 | 1905        | 19.99               | 20.50               | 1.125                  | 0.06             | 0.827                  | 0.930                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 26590 | 1905        | 19.99               | 20.50               | 1.125                  | 0.02             | 1.070                  | 1.203                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 26590 | 1905        | 19.99               | 20.50               | 1.125                  | 0.09             | 0.412                  | 0.463                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 26590 | 1905        | 19.99               | 20.50               | 1.125                  | 0.04             | 0.649                  | 0.730                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 26140 | 1860        | 19.72               | 20.50               | 1.197                  | 0.01             | 0.715                  | 0.856                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 26340 | 1880        | 19.75               | 20.50               | 1.189                  | 0.02             | 0.720                  | 0.856                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 26140 | 1860        | 19.72               | 20.50               | 1.197                  | 0.05             | 1.090                  | 1.304                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 26340 | 1880        | 19.75               | 20.50               | 1.189                  | 0.01             | 1.060                  | 1.260                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 26590 | 1905        | 19.93               | 20.50               | 1.140                  | 0.07             | 0.806                  | 0.919                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 26590 | 1905        | 19.93               | 20.50               | 1.140                  | 0.09             | 1.110                  | 1.266                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 1 | 26590 | 1905        | 19.93               | 20.50               | 1.140                  | 0.03             | 0.419                  | 0.478                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 1 | 26590 | 1905        | 19.93               | 20.50               | 1.140                  | 0.02             | 0.488                  | 0.556                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 26140 | 1860        | 19.75               | 20.50               | 1.189                  | 0.08             | 0.718                  | 0.853                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 26340 | 1880        | 19.86               | 20.50               | 1.159                  | 0.06             | 0.696                  | 0.807                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 26140 | 1860        | 19.75               | 20.50               | 1.189                  | 0.07             | 0.963                  | 1.145                  |
| 14       | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 26340 | 1880        | 19.86               | 20.50               | 1.159                  | 0.07             | 1.160                  | 1.344                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 1 | 26590 | 1905        | 19.98               | 20.50               | 1.127                  | 0.05             | 1.060                  | 1.195                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 100     | 0         | Right Tilted  | Reduced Level 1 | 26590 | 1905        | 19.98               | 20.50               | 1.127                  | 0.03             | 1.040                  | 1.172                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 26590 | 1905        | 18.89               | 19.50               | 1.151                  | 0.05             | 0.857                  | 0.986                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 26590 | 1905        | 18.89               | 19.50               | 1.151                  | 0.01             | 0.594                  | 0.684                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 26590 | 1905        | 18.89               | 19.50               | 1.151                  | 0.05             | 0.282                  | 0.325                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 26590 | 1905        | 18.89               | 19.50               | 1.151                  | 0.04             | 0.281                  | 0.323                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 26140 | 1860        | 18.76               | 19.50               | 1.186                  | 0.02             | 0.785                  | 0.931                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 26340 | 1880        | 18.71               | 19.50               | 1.199                  | 0.11             | 0.808                  | 0.969                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 26590 | 1905        | 18.52               | 19.00               | 1.117                  | 0.03             | 0.882                  | 0.985                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 26590 | 1905        | 18.52               | 19.00               | 1.117                  | 0.01             | 0.613                  | 0.685                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 2 | 26590 | 1905        | 18.52               | 19.00               | 1.117                  | 0.08             | 0.289                  | 0.323                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 2 | 26590 | 1905        | 18.52               | 19.00               | 1.117                  | 0.09             | 0.291                  | 0.325                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 26140 | 1860        | 18.29               | 19.00               | 1.178                  | 0.04             | 0.792                  | 0.933                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 26340 | 1880        | 18.29               | 19.00               | 1.178                  | 0.05             | 0.818                  | 0.963                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 2 | 26590 | 1905        | 18.43               | 19.00               | 1.140                  | 0.08             | 0.901                  | 1.027                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 26590 | 1905        | 18.27               | 19.00               | 1.183                  | 0.12             | 0.529                  | 0.626                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 3 | 26590 | 1905        | 18.27               | 19.00               | 1.183                  | 0.13             | 0.485                  | 0.574                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 3 | 26590 | 1905        | 18.27               | 19.00               | 1.183                  | 0.09             | 0.239                  | 0.283                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 3 | 26590 | 1905        | 18.27               | 19.00               | 1.183                  | 0.04             | 0.252                  | 0.298                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 26140 | 1860        | 17.87               | 19.00               | 1.297                  | 0.02             | 0.561                  | 0.728                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 26340 | 1880        | 17.92               | 19.00               | 1.282                  | 0.06             | 0.567                  | 0.727                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 3 | 26590 | 1905        | 18.14               | 19.00               | 1.219                  | 0.03             | 0.509                  | 0.620                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 3 | 26590 | 1905        | 18.14               | 19.00               | 1.219                  | 0.04             | 0.486                  | 0.592                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 3 | 26590 | 1905        | 18.14               | 19.00               | 1.219                  | 0.07             | 0.239                  | 0.291                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 3 | 26590 | 1905        | 18.14               | 19.00               | 1.219                  | 0.09             | 0.251                  | 0.306                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 26590 | 1905        | 23.55               | 24.00               | 1.109                  | 0.15             | 0.105                  | 0.116                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Full            | 26590 | 1905        | 23.55               | 24.00               | 1.109                  | 0.19             | 0.064                  | 0.071                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Full            | 26590 | 1905        | 23.55               | 24.00               | 1.109                  | 0.14             | 0.069                  | 0.077                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Full            | 26590 | 1905        | 23.55               | 24.00               | 1.109                  | 0.01             | 0.083                  | 0.092                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 26140 | 1860        | 23.25               | 24.00               | 1.189                  | 0.04             | 0.074                  | 0.088                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Full            | 26340 | 1880        | 23.3                | 24.00               | 1.175                  | 0.08             | 0.083                  | 0.098                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Full            | 26590 | 1905        | 22.72               | 23.00               | 1.067                  | 0.08             | 0.080                  | 0.085                  |

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# FCC SAR Test Report

Report No. : FA871004-01

|  |   |             |     |      |    |   |              |      |       |      |       |       |       |      |       |       |
|--|---|-------------|-----|------|----|---|--------------|------|-------|------|-------|-------|-------|------|-------|-------|
|  | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Right Tilted | Full | 26590 | 1905 | 22.72 | 23.00 | 1.067 | 0.01 | 0.052 | 0.055 |
|  | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Cheek   | Full | 26590 | 1905 | 22.72 | 23.00 | 1.067 | 0.06 | 0.059 | 0.063 |
|  | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Tilted  | Full | 26590 | 1905 | 22.72 | 23.00 | 1.067 | 0.08 | 0.069 | 0.074 |

| Plot No. | Antenna | Band       | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|----------|------------|---------|-----------|---------------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 19100 | 1900        | 20.54               | 21.00               | 1.112                  | 0.01             | 1.010                  | 1.123                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 19100 | 1900        | 20.54               | 21.00               | 1.112                  | 0.05             | 0.858                  | 0.954                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 19100 | 1900        | 20.54               | 21.00               | 1.112                  | -0.02            | 0.396                  | 0.440                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 19100 | 1900        | 20.54               | 21.00               | 1.112                  | 0.03             | 0.476                  | 0.529                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 18700 | 1860        | 20.39               | 21.00               | 1.151                  | -0.05            | 1.020                  | 1.174                  |
| 15       | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 18900 | 1880        | 20.36               | 21.00               | 1.159                  | -0.13            | 1.080                  | 1.251                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 18700 | 1860        | 20.39               | 21.00               | 1.151                  | 0.07             | 0.921                  | 1.060                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 18900 | 1880        | 20.36               | 21.00               | 1.159                  | -0.01            | 0.939                  | 1.088                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 19100 | 1900        | 20.49               | 21.00               | 1.125                  | 0.03             | 1.040                  | 1.170                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 19100 | 1900        | 20.49               | 21.00               | 1.125                  | 0.08             | 0.904                  | 1.017                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 1 | 19100 | 1900        | 20.49               | 21.00               | 1.125                  | 0.01             | 0.447                  | 0.503                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 1 | 19100 | 1900        | 20.49               | 21.00               | 1.125                  | 0.04             | 0.480                  | 0.540                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 18700 | 1860        | 20.35               | 21.00               | 1.161                  | -0.02            | 1.040                  | 1.208                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 18900 | 1880        | 20.33               | 21.00               | 1.167                  | 0.07             | 1.010                  | 1.178                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 18700 | 1860        | 20.35               | 21.00               | 1.161                  | 0.04             | 0.945                  | 1.098                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 18900 | 1880        | 20.33               | 21.00               | 1.167                  | 0.05             | 0.957                  | 1.117                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 1 | 19100 | 1900        | 20.44               | 21.00               | 1.138                  | 0.11             | 1.050                  | 1.195                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 100     | 0         | Right Tilted  | Reduced Level 1 | 19100 | 1900        | 20.44               | 21.00               | 1.138                  | 0.06             | 0.936                  | 1.065                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 19100 | 1900        | 19.27               | 19.50               | 1.054                  | 0.04             | 0.865                  | 0.912                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 19100 | 1900        | 19.27               | 19.50               | 1.054                  | 0.02             | 0.799                  | 0.842                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 19100 | 1900        | 19.27               | 19.50               | 1.054                  | 0.06             | 0.303                  | 0.319                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 19100 | 1900        | 19.27               | 19.50               | 1.054                  | 0.03             | 0.368                  | 0.388                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 18700 | 1860        | 18.95               | 19.50               | 1.135                  | 0.03             | 0.795                  | 0.902                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 18900 | 1880        | 18.97               | 19.50               | 1.130                  | 0.05             | 0.807                  | 0.912                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 18700 | 1860        | 18.95               | 19.50               | 1.135                  | -0.08            | 0.753                  | 0.855                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 18900 | 1880        | 18.97               | 19.50               | 1.130                  | -0.04            | 0.790                  | 0.893                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 19100 | 1900        | 18.98               | 19.50               | 1.127                  | 0.05             | 0.874                  | 0.985                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 19100 | 1900        | 18.98               | 19.50               | 1.127                  | -0.07            | 0.791                  | 0.892                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 2 | 19100 | 1900        | 18.98               | 19.50               | 1.127                  | 0.04             | 0.289                  | 0.326                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 2 | 19100 | 1900        | 18.98               | 19.50               | 1.127                  | 0.01             | 0.359                  | 0.405                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 18700 | 1860        | 18.61               | 19.50               | 1.227                  | 0.08             | 0.784                  | 0.962                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 18900 | 1880        | 18.64               | 19.50               | 1.219                  | 0.06             | 0.826                  | 1.007                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 18700 | 1860        | 18.61               | 19.50               | 1.227                  | 0.03             | 0.749                  | 0.919                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 18900 | 1880        | 18.64               | 19.50               | 1.219                  | 0.04             | 0.843                  | 1.028                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 2 | 19100 | 1900        | 18.88               | 19.50               | 1.153                  | 0.08             | 0.859                  | 0.991                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 100     | 0         | Right Tilted  | Reduced Level 2 | 19100 | 1900        | 18.88               | 19.50               | 1.153                  | 0.04             | 0.799                  | 0.922                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 19100 | 1900        | 18.64               | 19.00               | 1.086                  | -0.05            | 0.568                  | 0.617                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 3 | 19100 | 1900        | 18.64               | 19.00               | 1.086                  | 0.05             | 0.564                  | 0.613                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 3 | 19100 | 1900        | 18.64               | 19.00               | 1.086                  | 0.12             | 0.234                  | 0.254                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 3 | 19100 | 1900        | 18.64               | 19.00               | 1.086                  | 0.11             | 0.270                  | 0.293                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 3 | 19100 | 1900        | 18.47               | 19.00               | 1.130                  | -0.16            | 0.577                  | 0.652                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 3 | 19100 | 1900        | 18.47               | 19.00               | 1.130                  | 0.06             | 0.574                  | 0.649                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 3 | 19100 | 1900        | 18.47               | 19.00               | 1.130                  | -0.05            | 0.232                  | 0.262                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 3 | 19100 | 1900        | 18.47               | 19.00               | 1.130                  | 0.04             | 0.274                  | 0.310                  |

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# FCC SAR Test Report

Report No. : FA871004-01

|  |   |            |     |      |    |   |              |                 |       |      |       |       |       |       |       |       |
|--|---|------------|-----|------|----|---|--------------|-----------------|-------|------|-------|-------|-------|-------|-------|-------|
|  | 2 | LTE Band 2 | 20M | QPSK | 50 | 0 | Right Cheek  | Reduced Level 3 | 18700 | 1860 | 18.08 | 19.00 | 1.236 | 0.02  | 0.502 | 0.620 |
|  | 2 | LTE Band 2 | 20M | QPSK | 50 | 0 | Right Cheek  | Reduced Level 3 | 18900 | 1880 | 18.2  | 19.00 | 1.202 | -0.03 | 0.522 | 0.628 |
|  | 1 | LTE Band 2 | 20M | QPSK | 1  | 0 | Right Cheek  | Full            | 19100 | 1900 | 23.87 | 24.50 | 1.156 | 0.06  | 0.136 | 0.157 |
|  | 1 | LTE Band 2 | 20M | QPSK | 1  | 0 | Right Tilted | Full            | 19100 | 1900 | 23.87 | 24.50 | 1.156 | 0.08  | 0.080 | 0.092 |
|  | 1 | LTE Band 2 | 20M | QPSK | 1  | 0 | Left Cheek   | Full            | 19100 | 1900 | 23.87 | 24.50 | 1.156 | -0.01 | 0.091 | 0.105 |
|  | 1 | LTE Band 2 | 20M | QPSK | 1  | 0 | Left Tilted  | Full            | 19100 | 1900 | 23.87 | 24.50 | 1.156 | 0.01  | 0.089 | 0.103 |
|  | 1 | LTE Band 2 | 20M | QPSK | 1  | 0 | Right Cheek  | Full            | 18700 | 1860 | 23.45 | 24.50 | 1.274 | 0.01  | 0.097 | 0.124 |
|  | 1 | LTE Band 2 | 20M | QPSK | 1  | 0 | Right Cheek  | Full            | 18900 | 1880 | 23.44 | 24.50 | 1.276 | 0.05  | 0.110 | 0.140 |
|  | 1 | LTE Band 2 | 20M | QPSK | 50 | 0 | Right Cheek  | Full            | 19100 | 1900 | 22.78 | 23.50 | 1.180 | -0.06 | 0.106 | 0.125 |
|  | 1 | LTE Band 2 | 20M | QPSK | 50 | 0 | Right Tilted | Full            | 19100 | 1900 | 22.78 | 23.50 | 1.180 | -0.01 | 0.064 | 0.076 |
|  | 1 | LTE Band 2 | 20M | QPSK | 50 | 0 | Left Cheek   | Full            | 19100 | 1900 | 22.78 | 23.50 | 1.180 | 0.02  | 0.072 | 0.085 |
|  | 1 | LTE Band 2 | 20M | QPSK | 50 | 0 | Left Tilted  | Full            | 19100 | 1900 | 22.78 | 23.50 | 1.180 | 0.04  | 0.069 | 0.081 |

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 16       | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 27710 | 2310        | 19.38               | 19.70               | 1.076                  | 0.07             | 1.190                  | 1.281                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 27710 | 2310        | 19.38               | 19.70               | 1.076                  | 0.08             | 0.342                  | 0.368                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 27710 | 2310        | 19.38               | 19.70               | 1.076                  | -0.15            | 0.217                  | 0.234                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 27710 | 2310        | 19.38               | 19.70               | 1.076                  | -0.04            | 0.138                  | 0.149                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Right Cheek   | Reduced Level 1 | 27710 | 2310        | 19.17               | 19.70               | 1.130                  | 0.04             | 1.110                  | 1.254                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Right Tilted  | Reduced Level 1 | 27710 | 2310        | 19.17               | 19.70               | 1.130                  | 0.03             | 0.338                  | 0.382                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Left Cheek    | Reduced Level 1 | 27710 | 2310        | 19.17               | 19.70               | 1.130                  | -0.02            | 0.214                  | 0.242                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Left Tilted   | Reduced Level 1 | 27710 | 2310        | 19.17               | 19.70               | 1.130                  | -0.08            | 0.134                  | 0.151                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 27710 | 2310        | 19.08               | 19.70               | 1.153                  | 0.03             | 1.100                  | 1.269                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 27710 | 2310        | 17.61               | 18.00               | 1.094                  | 0.06             | 0.769                  | 0.841                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 27710 | 2310        | 17.61               | 18.00               | 1.094                  | 0.02             | 0.259                  | 0.283                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 27710 | 2310        | 17.61               | 18.00               | 1.094                  | -0.15            | 0.163                  | 0.178                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 27710 | 2310        | 17.61               | 18.00               | 1.094                  | -0.01            | 0.094                  | 0.103                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Right Cheek   | Reduced Level 2 | 27710 | 2310        | 17.58               | 18.00               | 1.102                  | 0.07             | 0.758                  | 0.835                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Right Tilted  | Reduced Level 2 | 27710 | 2310        | 17.58               | 18.00               | 1.102                  | 0.02             | 0.246                  | 0.271                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Left Cheek    | Reduced Level 2 | 27710 | 2310        | 17.58               | 18.00               | 1.102                  | -0.02            | 0.160                  | 0.176                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Left Tilted   | Reduced Level 2 | 27710 | 2310        | 17.58               | 18.00               | 1.102                  | -0.04            | 0.092                  | 0.101                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 27710 | 2310        | 17.5                | 18.00               | 1.122                  | 0.09             | 0.839                  | 0.941                  |





# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band       | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.                     | Freq. (MHz)             | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|----------|------------|---------|-----------|---------------|-----------------|-------------------------|-------------------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 17       | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 21350                   | 2560                    | 19.95               | 20.50               | 1.135                  | 0.03             | 1.070                  | 1.214                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 21350                   | 2560                    | 19.95               | 20.50               | 1.135                  | 0.01             | 0.282                  | 0.320                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 21350                   | 2560                    | 19.95               | 20.50               | 1.135                  | -0.01            | 0.201                  | 0.228                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 21350                   | 2560                    | 19.95               | 20.50               | 1.135                  | -0.06            | 0.118                  | 0.134                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 20850                   | 2510                    | 19.67               | 20.50               | 1.211                  | 0.04             | 0.868                  | 1.051                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 21100                   | 2535                    | 19.91               | 20.50               | 1.146                  | 0.07             | 1.000                  | 1.146                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 21350(PCC) + 21152(SCC) | 2560(PCC) + 2540.2(SCC) | 19.84               | 20.50               | 1.164                  | -0.02            | 1.020                  | 1.187                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 20850(PCC) + 21048(SCC) | 2510(PCC) + 2529.8(SCC) | 19.89               | 20.50               | 1.151                  | 0.01             | 1.040                  | 1.197                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 21100(PCC) + 20902(SCC) | 2535(PCC) + 2515.2(SCC) | 19.93               | 20.50               | 1.140                  | -0.01            | 1.030                  | 1.174                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 21350                   | 2560                    | 19.85               | 20.50               | 1.161                  | 0.03             | 0.975                  | 1.132                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 21350                   | 2560                    | 19.85               | 20.50               | 1.161                  | -0.04            | 0.281                  | 0.326                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 1 | 21350                   | 2560                    | 19.85               | 20.50               | 1.161                  | -0.06            | 0.201                  | 0.233                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 1 | 21350                   | 2560                    | 19.85               | 20.50               | 1.161                  | -0.05            | 0.119                  | 0.138                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 20850                   | 2510                    | 19.5                | 20.50               | 1.259                  | 0.03             | 0.872                  | 1.098                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 21100                   | 2535                    | 19.83               | 20.50               | 1.167                  | 0.07             | 0.964                  | 1.125                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 1 | 21350                   | 2560                    | 19.88               | 20.50               | 1.153                  | 0.03             | 0.957                  | 1.104                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 21350                   | 2560                    | 18.59               | 19.00               | 1.099                  | 0.05             | 0.818                  | 0.899                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 21350                   | 2560                    | 18.59               | 19.00               | 1.099                  | -0.06            | 0.233                  | 0.256                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 21350                   | 2560                    | 18.59               | 19.00               | 1.099                  | -0.08            | 0.129                  | 0.142                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 21350                   | 2560                    | 18.59               | 19.00               | 1.099                  | -0.03            | 0.094                  | 0.103                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 20850                   | 2510                    | 18.29               | 19.00               | 1.178                  | 0.09             | 0.826                  | 0.973                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 21100                   | 2535                    | 18.5                | 19.00               | 1.122                  | 0.08             | 0.824                  | 0.925                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 21350                   | 2560                    | 18.45               | 19.00               | 1.135                  | 0.05             | 0.821                  | 0.932                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 21350                   | 2560                    | 18.45               | 19.00               | 1.135                  | -0.05            | 0.232                  | 0.263                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 2 | 21350                   | 2560                    | 18.45               | 19.00               | 1.135                  | 0.14             | 0.131                  | 0.149                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 2 | 21350                   | 2560                    | 18.45               | 19.00               | 1.135                  | 0.14             | 0.131                  | 0.149                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 20850                   | 2510                    | 18.28               | 19.00               | 1.180                  | -0.05            | 0.930                  | 1.098                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 21100                   | 2535                    | 18.37               | 19.00               | 1.156                  | 0.01             | 0.828                  | 0.957                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 20850(PCC) + 21048(SCC) | 2510(PCC) + 2529.8(SCC) | 18.14               | 19.00               | 1.219                  | 0.05             | 0.757                  | 0.923                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 21100(PCC) + 20902(SCC) | 2535(PCC) + 2515.2(SCC) | 18.36               | 19.00               | 1.159                  | -0.08            | 0.743                  | 0.861                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 21350(PCC) + 21152(SCC) | 2560(PCC) + 2540.2(SCC) | 18.34               | 19.00               | 1.164                  | -0.03            | 0.767                  | 0.893                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 2 | 21350                   | 2560                    | 18.42               | 19.00               | 1.143                  | 0.04             | 0.803                  | 0.918                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 21350                   | 2560                    | 17.38               | 18.00               | 1.153                  | 0.02             | 0.692                  | 0.798                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 3 | 21350                   | 2560                    | 17.38               | 18.00               | 1.153                  | 0.01             | 0.170                  | 0.196                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 3 | 21350                   | 2560                    | 17.38               | 18.00               | 1.153                  | 0.05             | 0.140                  | 0.161                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 3 | 21350                   | 2560                    | 17.38               | 18.00               | 1.153                  | 0.04             | 0.103                  | 0.119                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 20850                   | 2510                    | 17.16               | 18.00               | 1.213                  | 0.06             | 0.627                  | 0.761                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 21100                   | 2535                    | 17.26               | 18.00               | 1.186                  | 0.05             | 0.721                  | 0.855                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 3 | 21100(PCC) + 20902(SCC) | 2535(PCC) + 2515.2(SCC) | 17.37               | 18.00               | 1.156                  | 0.02             | 0.604                  | 0.698                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 3 | 21350                   | 2560                    | 17.37               | 18.00               | 1.156                  | 0.08             | 0.670                  | 0.775                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 3 | 21350                   | 2560                    | 17.37               | 18.00               | 1.156                  | -0.01            | 0.163                  | 0.188                  |
|          | 3       | LTE Band 7 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 3 | 21350                   | 2560                    | 17.37               | 18.00               | 1.156                  | -0.05            | 0.140                  | 0.162                  |

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# FCC SAR Test Report

Report No. : FA871004-01

|   |            |     |      |     |   |             |                 |       |      |       |       |       |       |       |       |
|---|------------|-----|------|-----|---|-------------|-----------------|-------|------|-------|-------|-------|-------|-------|-------|
| 3 | LTE Band 7 | 20M | QPSK | 50  | 0 | Left Tilted | Reduced Level 3 | 21350 | 2560 | 17.37 | 18.00 | 1.156 | -0.03 | 0.078 | 0.090 |
| 3 | LTE Band 7 | 20M | QPSK | 100 | 0 | Right Cheek | Reduced Level 3 | 21350 | 2560 | 17.3  | 18.00 | 1.175 | 0.02  | 0.653 | 0.767 |

## <TDD LTE SAR>

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Reduction | Ch.                     | Freq. (MHz)               | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|-----------------|-------------------------|---------------------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 41055                   | 2636.5                    | 21.84               | 22.00               | 1.038                  | 62.9         | 1.006                     | -0.05            | 1.050                  | 1.096                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 1 | 41055                   | 2636.5                    | 21.84               | 22.00               | 1.038                  | 62.9         | 1.006                     | -0.04            | 0.333                  | 0.348                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 1 | 41055                   | 2636.5                    | 21.84               | 22.00               | 1.038                  | 62.9         | 1.006                     | 0.09             | 0.229                  | 0.239                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 1 | 41055                   | 2636.5                    | 21.84               | 22.00               | 1.038                  | 62.9         | 1.006                     | -0.09            | 0.131                  | 0.137                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 39750                   | 2506                      | 21.43               | 22.00               | 1.140                  | 62.9         | 1.006                     | -0.04            | 1.030                  | 1.182                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 40185                   | 2549.5                    | 21.57               | 22.00               | 1.104                  | 62.9         | 1.006                     | -0.02            | 0.995                  | 1.105                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 40620                   | 2593                      | 21.55               | 22.00               | 1.109                  | 62.9         | 1.006                     | -0.05            | 1.140                  | 1.272                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 1 | 41490                   | 2680                      | 21.72               | 22.00               | 1.067                  | 62.9         | 1.006                     | -0.07            | 1.190                  | 1.277                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 41055                   | 2636.5                    | 21.57               | 21.80               | 1.054                  | 62.9         | 1.006                     | 0.05             | 1.080                  | 1.146                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 1 | 41055                   | 2636.5                    | 21.57               | 21.80               | 1.054                  | 62.9         | 1.006                     | 0.03             | 0.337                  | 0.357                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 1 | 41055                   | 2636.5                    | 21.57               | 21.80               | 1.054                  | 62.9         | 1.006                     | 0.03             | 0.227                  | 0.241                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 1 | 41055                   | 2636.5                    | 21.57               | 21.80               | 1.054                  | 62.9         | 1.006                     | -0.05            | 0.114                  | 0.121                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 39750                   | 2506                      | 21.56               | 21.80               | 1.057                  | 62.9         | 1.006                     | -0.02            | 1.100                  | 1.169                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 40185                   | 2549.5                    | 21.54               | 21.80               | 1.062                  | 62.9         | 1.006                     | -0.02            | 1.100                  | 1.175                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 40620                   | 2593                      | 21.36               | 21.80               | 1.107                  | 62.9         | 1.006                     | -0.1             | 1.150                  | 1.280                  |
| 18       | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 41490                   | 2680                      | 21.38               | 21.80               | 1.102                  | 62.9         | 1.006                     | -0.07            | 1.180                  | 1.308                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 41490(PCC) + 41292(SCC) | 2680(PCC) + 2660.2(SCC)   | 21.52               | 21.80               | 1.067                  | 62.9         | 1.006                     | 0.09             | 1.090                  | 1.170                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 39750(PCC) + 39948(SCC) | 2506(PCC) + 2525.8(SCC)   | 21.49               | 21.80               | 1.074                  | 62.9         | 1.006                     | -0.09            | 1.060                  | 1.145                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 40185(PCC) + 40383(SCC) | 2549.5(PCC) + 2569.3(SCC) | 21.54               | 21.80               | 1.062                  | 62.9         | 1.006                     | -0.04            | 1.060                  | 1.132                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 40620(PCC) + 40422(SCC) | 2593(PCC) + 2573.2(SCC)   | 21.56               | 21.80               | 1.057                  | 62.9         | 1.006                     | -0.02            | 1.020                  | 1.084                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 41055(PCC) + 40857(SCC) | 2636.5(PCC) + 2616.7(SCC) | 21.57               | 21.80               | 1.054                  | 62.9         | 1.006                     | 0.03             | 1.100                  | 1.167                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 1 | 39790(PCC) + 39988(SCC) | 2510(PCC) + 2529.8(SCC)   | 21.44               | 21.80               | 1.086                  | 62.9         | 1.006                     | -0.05            | 1.090                  | 1.191                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 100     | 0         | Right Cheek   | Reduced Level 1 | 41055                   | 2636.5                    | 21.5                | 21.80               | 1.072                  | 62.9         | 1.006                     | -0.09            | 1.060                  | 1.143                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 41055                   | 2636.5                    | 20.1                | 20.50               | 1.096                  | 62.9         | 1.006                     | -0.06            | 0.793                  | 0.875                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Tilted  | Reduced Level 2 | 41055                   | 2636.5                    | 20.1                | 20.50               | 1.096                  | 62.9         | 1.006                     | 0.03             | 0.215                  | 0.237                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Cheek    | Reduced Level 2 | 41055                   | 2636.5                    | 20.1                | 20.50               | 1.096                  | 62.9         | 1.006                     | -0.01            | 0.151                  | 0.167                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Tilted   | Reduced Level 2 | 41055                   | 2636.5                    | 20.1                | 20.50               | 1.096                  | 62.9         | 1.006                     | 0.01             | 0.086                  | 0.095                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 39750                   | 2506                      | 19.68               | 20.50               | 1.208                  | 62.9         | 1.006                     | -0.02            | 0.678                  | 0.824                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 40185                   | 2549.5                    | 19.92               | 20.50               | 1.143                  | 62.9         | 1.006                     | -0.06            | 0.634                  | 0.729                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 40620                   | 2593                      | 19.78               | 20.50               | 1.180                  | 62.9         | 1.006                     | 0.02             | 0.568                  | 0.674                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Right Cheek   | Reduced Level 2 | 41490                   | 2680                      | 19.77               | 20.50               | 1.183                  | 62.9         | 1.006                     | -0.05            | 0.722                  | 0.859                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 41055                   | 2636.5                    | 19.99               | 20.50               | 1.125                  | 62.9         | 1.006                     | 0.01             | 0.792                  | 0.896                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Tilted  | Reduced Level 2 | 41055                   | 2636.5                    | 19.99               | 20.50               | 1.125                  | 62.9         | 1.006                     | 0.05             | 0.201                  | 0.227                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Left Cheek    | Reduced Level 2 | 41055                   | 2636.5                    | 19.99               | 20.50               | 1.125                  | 62.9         | 1.006                     | 0.02             | 0.141                  | 0.160                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Left Tilted   | Reduced Level 2 | 41055                   | 2636.5                    | 19.99               | 20.50               | 1.125                  | 62.9         | 1.006                     | 0.01             | 0.087                  | 0.098                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Right Cheek   | Reduced Level 2 | 39750                   | 2506                      | 19.71               | 20.50               | 1.199                  | 62.9         | 1.006                     | -0.05            | 0.682                  | 0.823                  |

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# FCC SAR Test Report

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|   |             |     |      |     |   |              |                 |                               |                                 |       |       |       |      |       |       |       |       |
|---|-------------|-----|------|-----|---|--------------|-----------------|-------------------------------|---------------------------------|-------|-------|-------|------|-------|-------|-------|-------|
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 40185                         | 2549.5                          | 19.92 | 20.50 | 1.143 | 62.9 | 1.006 | -0.03 | 0.638 | 0.734 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 40620                         | 2593                            | 19.83 | 20.50 | 1.167 | 62.9 | 1.006 | 0.04  | 0.599 | 0.703 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 41490                         | 2680                            | 19.91 | 20.50 | 1.146 | 62.9 | 1.006 | -0.02 | 0.716 | 0.825 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 41055(PCC)<br>+<br>40857(SCC) | 2636.5(PCC)<br>+<br>2616.7(SCC) | 19.88 | 20.50 | 1.153 | 62.9 | 1.006 | -0.06 | 0.695 | 0.806 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 39750(PCC)<br>+<br>39948(SCC) | 2506(PCC)<br>+<br>2525.8(SCC)   | 19.66 | 20.50 | 1.213 | 62.9 | 1.006 | 0.02  | 0.653 | 0.797 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 40185(PCC)<br>+<br>40383(SCC) | 2549.5(PCC)<br>+<br>2569.3(SCC) | 19.72 | 20.50 | 1.197 | 62.9 | 1.006 | -0.02 | 0.689 | 0.830 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 41490(PCC)<br>+<br>40422(SCC) | 2593(PCC)<br>+<br>2573.2(SCC)   | 19.75 | 20.50 | 1.189 | 62.9 | 1.006 | 0.03  | 0.679 | 0.812 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 41490(PCC)<br>+<br>41292(SCC) | 2680(PCC)<br>+<br>2660.2(SCC)   | 19.8  | 20.50 | 1.175 | 62.9 | 1.006 | 0.05  | 0.669 | 0.791 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 2 | 39790(PCC)<br>+<br>39988(SCC) | 2510(PCC)<br>+<br>2529.8(SCC)   | 19.63 | 20.50 | 1.222 | 62.9 | 1.006 | -0.02 | 0.659 | 0.810 |
| 3 | LTE Band 41 | 20M | QPSK | 100 | 0 | Right Cheek  | Reduced Level 2 | 41055                         | 2636.5                          | 19.92 | 20.50 | 1.143 | 62.9 | 1.006 | 0.08  | 0.730 | 0.839 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 41055                         | 2636.5                          | 19.52 | 20.00 | 1.117 | 62.9 | 1.006 | -0.04 | 0.566 | 0.636 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Tilted | Reduced Level 3 | 41055                         | 2636.5                          | 19.52 | 20.00 | 1.117 | 62.9 | 1.006 | -0.07 | 0.166 | 0.187 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Left Cheek   | Reduced Level 3 | 41055                         | 2636.5                          | 19.52 | 20.00 | 1.117 | 62.9 | 1.006 | 0.05  | 0.110 | 0.124 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Left Tilted  | Reduced Level 3 | 41055                         | 2636.5                          | 19.52 | 20.00 | 1.117 | 62.9 | 1.006 | -0.02 | 0.074 | 0.083 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 39750                         | 2506                            | 19.47 | 20.00 | 1.130 | 62.9 | 1.006 | 0.03  | 0.491 | 0.558 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 40185                         | 2549.5                          | 19.38 | 20.00 | 1.153 | 62.9 | 1.006 | 0.05  | 0.541 | 0.628 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 40620                         | 2593                            | 19.42 | 20.00 | 1.143 | 62.9 | 1.006 | -0.02 | 0.560 | 0.644 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 41490                         | 2680                            | 19.48 | 20.00 | 1.127 | 62.9 | 1.006 | -0.05 | 0.542 | 0.615 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 39790(PCC)<br>+<br>39988(SCC) | 2510(PCC)<br>+<br>2529.8(SCC)   | 19.49 | 20.00 | 1.125 | 62.9 | 1.006 | -0.01 | 0.599 | 0.678 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 39750(PCC)<br>+<br>39948(SCC) | 2506(PCC)<br>+<br>2525.8(SCC)   | 19.44 | 20.00 | 1.138 | 62.9 | 1.006 | 0.02  | 0.578 | 0.661 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 40185(PCC)<br>+<br>40383(SCC) | 2549.5(PCC)<br>+<br>2569.3(SCC) | 19.3  | 20.00 | 1.175 | 62.9 | 1.006 | -0.11 | 0.614 | 0.726 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 40620(PCC)<br>+<br>40422(SCC) | 2593(PCC)<br>+<br>2573.2(SCC)   | 19.5  | 20.00 | 1.122 | 62.9 | 1.006 | -0.05 | 0.614 | 0.693 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 41055(PCC)<br>+<br>40857(SCC) | 2636.5(PCC)<br>+<br>2616.7(SCC) | 19.51 | 20.00 | 1.119 | 62.9 | 1.006 | 0.05  | 0.649 | 0.731 |
| 3 | LTE Band 41 | 20M | QPSK | 1   | 0 | Right Cheek  | Reduced Level 3 | 41490(PCC)<br>+<br>41292(SCC) | 2680(PCC)<br>+<br>2660.2(SCC)   | 19.47 | 20.00 | 1.130 | 62.9 | 1.006 | -0.02 | 0.621 | 0.706 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 3 | 41055                         | 2636.5                          | 19.46 | 20.00 | 1.132 | 62.9 | 1.006 | 0.05  | 0.546 | 0.622 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Tilted | Reduced Level 3 | 41055                         | 2636.5                          | 19.46 | 20.00 | 1.132 | 62.9 | 1.006 | 0.05  | 0.168 | 0.191 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Left Cheek   | Reduced Level 3 | 41055                         | 2636.5                          | 19.46 | 20.00 | 1.132 | 62.9 | 1.006 | 0.03  | 0.107 | 0.122 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Left Tilted  | Reduced Level 3 | 41055                         | 2636.5                          | 19.46 | 20.00 | 1.132 | 62.9 | 1.006 | -0.01 | 0.078 | 0.089 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 3 | 39750                         | 2506                            | 19.18 | 20.00 | 1.208 | 62.9 | 1.006 | 0.02  | 0.470 | 0.571 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 3 | 40185                         | 2549.5                          | 19.41 | 20.00 | 1.146 | 62.9 | 1.006 | -0.11 | 0.469 | 0.540 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 3 | 40620                         | 2593                            | 19.33 | 20.00 | 1.167 | 62.9 | 1.006 | -0.05 | 0.455 | 0.534 |
| 3 | LTE Band 41 | 20M | QPSK | 50  | 0 | Right Cheek  | Reduced Level 3 | 41490                         | 2680                            | 19.44 | 20.00 | 1.138 | 62.9 | 1.006 | 0.01  | 0.449 | 0.514 |
| 3 | LTE Band 41 | 20M | QPSK | 100 | 0 | Right Cheek  | Reduced Level 3 | 41055                         | 2636.5                          | 19.4  | 20.00 | 1.148 | 62.9 | 1.006 | -0.02 | 0.499 | 0.576 |

**<WLAN 2.4GHz SAR>**

| Plot No. | Antenna | Band       | Mode          | Test Position | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|---------------|---------------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | Reduced Level 1 | 6   | 2437        | 16.01               | 16.50               | 1.119                  | 99.31        | 1.007                     | 0.01             | 0.263                  | 0.296                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | Reduced Level 1 | 6   | 2437        | 16.01               | 16.50               | 1.119                  | 99.31        | 1.007                     | -0.02            | 0.292                  | 0.329                  |
| 19       | 1       | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | Reduced Level 1 | 6   | 2437        | 16.01               | 16.50               | 1.119                  | 99.31        | 1.007                     | 0.09             | 0.872                  | <b>0.983</b>           |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | Reduced Level 1 | 11  | 2462        | 15.91               | 16.50               | 1.146                  | 99.31        | 1.007                     | 0.07             | 0.763                  | 0.880                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | Reduced Level 1 | 1   | 2412        | 15.54               | 16.50               | 1.247                  | 99.31        | 1.007                     | 0.05             | 0.612                  | 0.769                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | Reduced Level 1 | 6   | 2437        | 16.01               | 16.50               | 1.119                  | 99.31        | 1.007                     | 0.03             | 0.809                  | 0.912                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | Reduced Level 1 | 11  | 2462        | 15.91               | 16.50               | 1.146                  | 99.31        | 1.007                     | -0.19            | 0.679                  | 0.783                  |
| 20       | 2       | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | Full            | 6   | 2437        | 16.24               | 16.50               | 1.062                  | 99.34        | 1.007                     | -0.02            | 0.650                  | <b>0.695</b>           |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | Full            | 6   | 2437        | 16.24               | 16.50               | 1.062                  | 99.34        | 1.007                     | -0.01            | 0.208                  | 0.222                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | Full            | 6   | 2437        | 16.24               | 16.50               | 1.062                  | 99.34        | 1.007                     | 0.03             | 0.156                  | 0.167                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | Full            | 6   | 2437        | 16.24               | 16.50               | 1.062                  | 99.34        | 1.007                     | 0.01             | 0.078                  | 0.083                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | Full            | 1   | 2412        | 15.77               | 16.50               | 1.183                  | 99.34        | 1.007                     | -0.08            | 0.411                  | 0.490                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | Full            | 11  | 2462        | 15.87               | 16.50               | 1.156                  | 99.34        | 1.007                     | -0.07            | 0.450                  | 0.524                  |



## &lt;WLAN 5GHz SAR&gt;

| Plot No. | Antenna | Band       | Mode              | Test Position | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Max Area Scan SAR | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|-------------------|---------------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|-------------------|------------------|------------------------|------------------------|
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Cheek   | Reduced Level 1 | 54  | 5270        | 17.50               | 18.00               | 1.122                  | 96.46        | 1.037                     |                   | 0.05             | 0.227                  | 0.264                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Tilted  | Reduced Level 1 | 54  | 5270        | 17.50               | 18.00               | 1.122                  | 96.46        | 1.037                     |                   | 0.13             | 0.177                  | 0.206                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Left Cheek    | Reduced Level 1 | 54  | 5270        | 17.50               | 18.00               | 1.122                  | 96.46        | 1.037                     |                   | 0.06             | 0.549                  | 0.639                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 1 | 54  | 5270        | 17.50               | 18.00               | 1.122                  | 96.46        | 1.037                     |                   | 0.07             | 0.588                  | 0.684                  |
| 21       | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 1 | 62  | 5310        | 17.48               | 18.00               | 1.127                  | 96.46        | 1.037                     |                   | 0.03             | 0.671                  | 0.784                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Cheek   | Reduced Level 2 | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.46        | 1.037                     |                   | 0.06             | 0.204                  | 0.237                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Tilted  | Reduced Level 2 | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.46        | 1.037                     |                   | 0.03             | 0.191                  | 0.222                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Left Cheek    | Reduced Level 2 | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.46        | 1.037                     |                   | 0.07             | 0.423                  | 0.492                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 2 | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.46        | 1.037                     |                   | -0.02            | 0.497                  | 0.578                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 2 | 62  | 5310        | 16.49               | 17.00               | 1.125                  | 96.46        | 1.037                     |                   | 0.03             | 0.468                  | 0.546                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Right Cheek   | Reduced Level 1 | 142 | 5710        | 17.53               | 18.00               | 1.114                  | 96.46        | 1.037                     | 0.770             | -0.09            | 0.292                  | 0.337                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Right Tilted  | Reduced Level 1 | 142 | 5710        | 17.53               | 18.00               | 1.114                  | 96.46        | 1.037                     | 0.828             | 0.05             | 0.367                  | 0.424                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Cheek    | Reduced Level 1 | 142 | 5710        | 17.53               | 18.00               | 1.114                  | 96.46        | 1.037                     | 1.587             | -0.03            | 0.885                  | 1.023                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Cheek    | Reduced Level 1 | 102 | 5510        | 17.49               | 18.00               | 1.125                  | 96.46        | 1.037                     |                   | -0.06            | 0.907                  | 1.058                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 1 | 142 | 5710        | 17.53               | 18.00               | 1.114                  | 96.46        | 1.037                     | 1.865             | -0.19            | 0.923                  | 1.067                  |
| 22       | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 1 | 102 | 5510        | 17.49               | 18.00               | 1.125                  | 96.46        | 1.037                     |                   | -0.07            | 0.917                  | 1.069                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 1 | 110 | 5550        | 17.43               | 18.00               | 1.140                  | 96.46        | 1.037                     |                   | -0.01            | 0.894                  | 1.057                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Right Cheek   | Reduced Level 2 | 142 | 5710        | 16.83               | 17.00               | 1.040                  | 96.46        | 1.037                     |                   | 0.08             | 0.271                  | 0.292                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Right Tilted  | Reduced Level 2 | 142 | 5710        | 16.83               | 17.00               | 1.040                  | 96.46        | 1.037                     |                   | 0.06             | 0.301                  | 0.325                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Cheek    | Reduced Level 2 | 142 | 5710        | 16.83               | 17.00               | 1.040                  | 96.46        | 1.037                     |                   | -0.09            | 0.671                  | 0.724                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 2 | 142 | 5710        | 16.83               | 17.00               | 1.040                  | 96.46        | 1.037                     |                   | 0.05             | 0.701                  | 0.756                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 2 | 102 | 5510        | 16.49               | 17.00               | 1.125                  | 96.46        | 1.037                     |                   | -0.03            | 0.698                  | 0.814                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 2 | 110 | 5550        | 16.43               | 17.00               | 1.140                  | 96.46        | 1.037                     |                   | -0.02            | 0.753                  | 0.890                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Right Cheek   | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 0.796             | -0.02            | 0.318                  | 0.333                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Right Tilted  | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 0.793             |                  |                        |                        |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Left Cheek    | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 1.728             | -0.03            | 0.880                  | 0.921                  |
| 23       | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Left Cheek    | Full            | 151 | 5755        | 17.76               | 18.00               | 1.057                  | 96.46        | 1.037                     |                   | -0.1             | 0.934                  | 1.024                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Left Tilted   | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 1.990             | -0.07            | 0.888                  | 0.929                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Left Tilted   | Full            | 151 | 5755        | 17.76               | 18.00               | 1.057                  | 96.46        | 1.037                     |                   | -0.05            | 0.864                  | 0.947                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Right Cheek   | Reduced Level 2 | 159 | 5795        | 16.96               | 17.00               | 1.009                  | 96.46        | 1.037                     |                   | 0.06             | 0.329                  | 0.344                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Right Tilted  | Reduced Level 2 | 159 | 5795        | 16.96               | 17.00               | 1.009                  | 96.46        | 1.037                     |                   | -0.05            | 0.262                  | 0.274                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Left Cheek    | Reduced Level 2 | 159 | 5795        | 16.96               | 17.00               | 1.009                  | 96.46        | 1.037                     |                   | 0.09             | 0.674                  | 0.705                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 2 | 159 | 5795        | 16.96               | 17.00               | 1.009                  | 96.46        | 1.037                     |                   | 0.02             | 0.848                  | 0.888                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Left Tilted   | Reduced Level 2 | 151 | 5755        | 16.76               | 17.00               | 1.057                  | 96.46        | 1.037                     |                   | -0.06            | 0.797                  | 0.873                  |

**<Bluetooth SAR>**

| Plot No. | Antenna | Band      | Mode  | Test Position | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-----------|-------|---------------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1       | Bluetooth | 1Mbps | Right Cheek   | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.02             | 0.080                  | 0.094                  |
|          | 1       | Bluetooth | 1Mbps | Right Tilted  | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.01             | 0.062                  | 0.073                  |
|          | 1       | Bluetooth | 1Mbps | Left Cheek    | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | -0.05            | 0.234                  | 0.276                  |
|          | 1       | Bluetooth | 1Mbps | Left Tilted   | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.09             | 0.137                  | 0.162                  |
| 24       | 1       | Bluetooth | 1Mbps | Left Cheek    | Full            | 39  | 2441        | 12.71               | 13.10               | 1.094                  | 76.84        | 1.084                     | -0.1             | 0.329                  | <b>0.390</b>           |
|          | 1       | Bluetooth | 1Mbps | Left Cheek    | Full            | 78  | 2480        | 12.18               | 13.10               | 1.236                  | 76.84        | 1.084                     | -0.02            | 0.273                  | 0.366                  |



**14.2 Hotspot SAR**

**<GSM SAR>**

| Plot No. | Antenna | Band    | Mode             | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | GSM850  | GPRS(3 Tx slots) | Front         | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.04             | 0.373                  | 0.430                  |
|          | 2       | GSM850  | GPRS(3 Tx slots) | Back          | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.01             | 0.529                  | 0.610                  |
|          | 2       | GSM850  | GPRS(3 Tx slots) | Left Side     | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.02             | 0.271                  | 0.313                  |
|          | 2       | GSM850  | GPRS(3 Tx slots) | Top Side      | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.04             | 0.417                  | 0.481                  |
| 25       | 2       | GSM850  | GPRS(3 Tx slots) | Back          | 10       | Full            | 128 | 824.2       | 28.88               | 29.80               | 1.236                  | 0.07             | 0.538                  | 0.665                  |
|          | 2       | GSM850  | GPRS(3 Tx slots) | Back          | 10       | Full            | 189 | 836.4       | 29.05               | 29.80               | 1.189                  | 0.06             | 0.557                  | 0.662                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Front         | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.05             | 0.333                  | 0.384                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Back          | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.01             | 0.508                  | 0.586                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Left Side     | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.08             | 0.186                  | 0.215                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Right Side    | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.01             | 0.071                  | 0.082                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Bottom Side   | 10       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.02             | 0.231                  | 0.266                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Back          | 10       | Full            | 128 | 824.2       | 28.88               | 29.80               | 1.236                  | 0.04             | 0.443                  | 0.548                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Back          | 10       | Full            | 189 | 836.4       | 29.05               | 29.80               | 1.189                  | 0.01             | 0.464                  | 0.551                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Front         | 10       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.07             | 0.157                  | 0.184                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Back          | 10       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.04             | 0.260                  | 0.305                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Left Side     | 10       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.14             | 0.076                  | 0.089                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Top Side      | 10       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.09             | 0.270                  | 0.316                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Top Side      | 10       | Full            | 512 | 1850.2      | 25.18               | 26.00               | 1.208                  | 0.01             | 0.379                  | 0.458                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Top Side      | 10       | Full            | 661 | 1880        | 25.29               | 26.00               | 1.178                  | 0.07             | 0.287                  | 0.338                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Front         | 10       | Reduced Level 1 | 810 | 1909.8      | 24.55               | 25.00               | 1.109                  | -0.05            | 0.395                  | 0.438                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Back          | 10       | Reduced Level 1 | 810 | 1909.8      | 24.55               | 25.00               | 1.109                  | -0.06            | 0.613                  | 0.680                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Left Side     | 10       | Reduced Level 1 | 810 | 1909.8      | 24.55               | 25.00               | 1.109                  | -0.07            | 0.056                  | 0.062                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Right Side    | 10       | Reduced Level 1 | 810 | 1909.8      | 24.55               | 25.00               | 1.109                  | -0.04            | 0.120                  | 0.133                  |
| 26       | 1       | GSM1900 | GPRS(3 Tx slots) | Bottom Side   | 10       | Reduced Level 1 | 810 | 1909.8      | 24.55               | 25.00               | 1.109                  | 0.01             | 1.120                  | 1.242                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Bottom Side   | 10       | Reduced Level 1 | 512 | 1850.2      | 24.47               | 25.00               | 1.130                  | 0.01             | 0.816                  | 0.922                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Bottom Side   | 10       | Reduced Level 1 | 661 | 1880        | 24.26               | 25.00               | 1.186                  | 0.06             | 0.998                  | 1.183                  |





**<WCDMA SAR>**

| Plot No. | Antenna | Band          | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Front         | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.02             | 0.404                  | 0.462                  |
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Back          | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.03             | 0.560                  | 0.640                  |
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Left Side     | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.06             | 0.225                  | 0.257                  |
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Top Side      | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.02             | 0.008                  | 0.009                  |
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Back          | 10       | Full            | 4132 | 826.4       | 23.88               | 24.50               | 1.153                  | 0.09             | 0.564                  | 0.651                  |
| 27       | 2       | WCDMA Band V  | RMC 12.2Kbps | Back          | 10       | Full            | 4233 | 846.6       | 23.89               | 24.50               | 1.151                  | 0.07             | 0.586                  | 0.674                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Front         | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.05             | 0.238                  | 0.272                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Back          | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.03             | 0.332                  | 0.379                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Left Side     | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.01             | 0.260                  | 0.297                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Right Side    | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.06             | 0.144                  | 0.165                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Bottom Side   | 10       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.02             | 0.198                  | 0.226                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Back          | 10       | Full            | 4132 | 826.4       | 23.88               | 24.50               | 1.153                  | 0.05             | 0.337                  | 0.389                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Back          | 10       | Full            | 4233 | 846.6       | 23.89               | 24.50               | 1.151                  | 0.07             | 0.380                  | 0.437                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Front         | 10       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.08             | 0.561                  | 0.611                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Back          | 10       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.05             | 0.538                  | 0.586                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Left Side     | 10       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.01             | 0.484                  | 0.527                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Top Side      | 10       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.1              | 0.756                  | 0.823                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Top Side      | 10       | Full            | 1312 | 1712.4      | 24.41               | 25.00               | 1.146                  | 0.02             | 0.812                  | 0.930                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Top Side      | 10       | Full            | 1413 | 1732.6      | 24.61               | 25.00               | 1.094                  | 0.07             | 0.909                  | 0.994                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Front         | 10       | Reduced Level 1 | 1513 | 1752.6      | 19.79               | 20.50               | 1.178                  | 0.05             | 0.347                  | 0.409                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Back          | 10       | Reduced Level 1 | 1513 | 1752.6      | 19.79               | 20.50               | 1.178                  | 0.03             | 0.633                  | 0.745                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Left Side     | 10       | Reduced Level 1 | 1513 | 1752.6      | 19.79               | 20.50               | 1.178                  | 0.01             | 0.075                  | 0.089                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Right Side    | 10       | Reduced Level 1 | 1513 | 1752.6      | 19.79               | 20.50               | 1.178                  | 0.05             | 0.085                  | 0.100                  |
| 28       | 1       | WCDMA Band IV | RMC 12.2Kbps | Bottom Side   | 10       | Reduced Level 1 | 1513 | 1752.6      | 19.79               | 20.50               | 1.178                  | 0.08             | 1.000                  | 1.178                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Bottom Side   | 10       | Reduced Level 1 | 1312 | 1712.4      | 19.62               | 20.50               | 1.225                  | 0.01             | 0.897                  | 1.098                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Bottom Side   | 10       | Reduced Level 1 | 1413 | 1732.6      | 19.72               | 20.50               | 1.197                  | 0.06             | 0.976                  | 1.168                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Front         | 10       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.03             | 0.568                  | 0.639                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Back          | 10       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.01             | 0.659                  | 0.741                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Left Side     | 10       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.06             | 0.311                  | 0.350                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Top Side      | 10       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.03             | 0.733                  | 0.824                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Top Side      | 10       | Full            | 9400 | 1880        | 24.42               | 25.00               | 1.143                  | 0.06             | 0.846                  | 0.967                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Top Side      | 10       | Full            | 9538 | 1907.6      | 24.45               | 25.00               | 1.135                  | 0.03             | 0.793                  | 0.900                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Front         | 10       | Reduced Level 1 | 9262 | 1852.4      | 19.54               | 20.00               | 1.112                  | 0.04             | 0.323                  | 0.359                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Back          | 10       | Reduced Level 1 | 9262 | 1852.4      | 19.54               | 20.00               | 1.112                  | -0.02            | 0.573                  | 0.637                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Left Side     | 10       | Reduced Level 1 | 9262 | 1852.4      | 19.54               | 20.00               | 1.112                  | 0.05             | 0.036                  | 0.040                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Right Side    | 10       | Reduced Level 1 | 9262 | 1852.4      | 19.54               | 20.00               | 1.112                  | 0.06             | 0.082                  | 0.091                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Bottom Side   | 10       | Reduced Level 1 | 9262 | 1852.4      | 19.54               | 20.00               | 1.112                  | 0.03             | 0.874                  | 0.972                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Bottom Side   | 10       | Reduced Level 1 | 9400 | 1880        | 19.52               | 20.00               | 1.117                  | 0.07             | 0.949                  | 1.060                  |
| 29       | 1       | WCDMA Band II | RMC 12.2Kbps | Bottom Side   | 10       | Reduced Level 1 | 9538 | 1907.6      | 19.53               | 20.00               | 1.114                  | 0.08             | 1.020                  | 1.137                  |



**<CDMA2000 SAR>**

| Plot No. | Antenna | Band         | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|--------------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | CDMA2000 BC0 | RTAP 153.6Kbps | Front         | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.03             | 0.461                  | 0.532                  |
|          | 2       | CDMA2000 BC0 | RTAP 153.6Kbps | Back          | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.09             | 0.600                  | 0.692                  |
|          | 2       | CDMA2000 BC0 | RTAP 153.6Kbps | Left Side     | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.05             | 0.111                  | 0.128                  |
|          | 2       | CDMA2000 BC0 | RTAP 153.6Kbps | Top Side      | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.07             | 0.525                  | 0.606                  |
|          | 2       | CDMA2000 BC0 | RTAP 153.6Kbps | Back          | 10       | Full            | 1013 | 824.7       | 23.8                | 24.50               | 1.175                  | 0.02             | 0.618                  | 0.726                  |
| 30       | 2       | CDMA2000 BC0 | RTAP 153.6Kbps | Back          | 10       | Full            | 777  | 848.31      | 23.86               | 24.50               | 1.159                  | 0.06             | 0.645                  | 0.747                  |
|          | 1       | CDMA2000 BC0 | RTAP 153.6Kbps | Front         | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.1              | 0.271                  | 0.313                  |
|          | 1       | CDMA2000 BC0 | RTAP 153.6Kbps | Back          | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.05             | 0.391                  | 0.451                  |
|          | 1       | CDMA2000 BC0 | RTAP 153.6Kbps | Left Side     | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.02             | 0.223                  | 0.257                  |
|          | 1       | CDMA2000 BC0 | RTAP 153.6Kbps | Right Side    | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.06             | 0.142                  | 0.164                  |
|          | 1       | CDMA2000 BC0 | RTAP 153.6Kbps | Bottom Side   | 10       | Full            | 384  | 836.52      | 23.88               | 24.50               | 1.153                  | 0.03             | 0.203                  | 0.234                  |
|          | 1       | CDMA2000 BC0 | RTAP 153.6Kbps | Back          | 10       | Full            | 1013 | 824.7       | 23.8                | 24.50               | 1.175                  | 0.09             | 0.370                  | 0.435                  |
|          | 1       | CDMA2000 BC0 | RTAP 153.6Kbps | Back          | 10       | Full            | 777  | 848.31      | 23.86               | 24.50               | 1.159                  | 0.07             | 0.442                  | 0.512                  |
|          | 2       | CDMA2000 BC1 | RTAP 153.6Kbps | Front         | 10       | Full            | 1175 | 1908.75     | 23.71               | 24.50               | 1.199                  | 0.02             | 0.586                  | 0.703                  |
|          | 2       | CDMA2000 BC1 | RTAP 153.6Kbps | Back          | 10       | Full            | 1175 | 1908.75     | 23.71               | 24.50               | 1.199                  | 0.01             | 0.589                  | 0.707                  |
|          | 2       | CDMA2000 BC1 | RTAP 153.6Kbps | Left Side     | 10       | Full            | 1175 | 1908.75     | 23.71               | 24.50               | 1.199                  | -0.11            | 0.463                  | 0.555                  |
|          | 2       | CDMA2000 BC1 | RTAP 153.6Kbps | Top Side      | 10       | Full            | 1175 | 1908.75     | 23.71               | 24.50               | 1.199                  | 0.09             | 0.716                  | 0.859                  |
| 31       | 2       | CDMA2000 BC1 | RTAP 153.6Kbps | Top Side      | 10       | Full            | 25   | 1851.25     | 23.48               | 24.50               | 1.265                  | 0.07             | 0.852                  | 1.078                  |
|          | 2       | CDMA2000 BC1 | RTAP 153.6Kbps | Top Side      | 10       | Full            | 600  | 1880        | 23.61               | 24.50               | 1.227                  | 0.03             | 0.844                  | 1.036                  |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Front         | 10       | Reduced Level 1 | 1175 | 1908.75     | 18.51               | 19.00               | 1.119                  | -0.02            | 0.321                  | 0.359                  |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Back          | 10       | Reduced Level 1 | 1175 | 1908.75     | 18.51               | 19.00               | 1.119                  | -0.07            | 0.502                  | 0.562                  |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Left Side     | 10       | Reduced Level 1 | 1175 | 1908.75     | 18.51               | 19.00               | 1.119                  | 0.09             | 0.030                  | 0.034                  |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Right Side    | 10       | Reduced Level 1 | 1175 | 1908.75     | 18.51               | 19.00               | 1.119                  | -0.05            | 0.070                  | 0.078                  |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side   | 10       | Reduced Level 1 | 1175 | 1908.75     | 18.51               | 19.00               | 1.119                  | 0.07             | 0.732                  | 0.819                  |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side   | 10       | Reduced Level 1 | 25   | 1851.25     | 18.47               | 19.00               | 1.130                  | 0.06             | 0.705                  | 0.797                  |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side   | 10       | Reduced Level 1 | 600  | 1880        | 18.48               | 19.00               | 1.127                  | 0.03             | 0.774                  | 0.872                  |



**<FDD LTE SAR>**

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.08             | 0.419                  | 0.450                  |
| 32       | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.09             | 0.500                  | 0.537                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.04             | 0.225                  | 0.242                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.06             | 0.300                  | 0.322                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.05             | 0.330                  | 0.359                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.03             | 0.419                  | 0.455                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.08             | 0.177                  | 0.192                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Top Side      | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | -0.02            | 0.257                  | 0.279                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.05             | 0.154                  | 0.165                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.01             | 0.225                  | 0.242                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.06             | 0.186                  | 0.200                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Right Side    | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.03             | 0.162                  | 0.174                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.03             | 0.096                  | 0.103                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.11             | 0.130                  | 0.141                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.04             | 0.204                  | 0.222                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.05             | 0.179                  | 0.194                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Right Side    | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.06             | 0.144                  | 0.156                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.02             | 0.084                  | 0.091                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.03             | 0.395                  | 0.448                  |
| 33       | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.02             | 0.482                  | 0.547                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.05             | 0.152                  | 0.173                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.03             | 0.349                  | 0.396                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Front         | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.02             | 0.304                  | 0.339                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Back          | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.01             | 0.372                  | 0.415                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Side     | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.09             | 0.134                  | 0.149                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Top Side      | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.02             | 0.272                  | 0.303                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.01             | 0.154                  | 0.175                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.02             | 0.230                  | 0.261                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.04             | 0.265                  | 0.301                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Right Side    | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.11             | 0.214                  | 0.243                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.03             | 0.092                  | 0.104                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Front         | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.08             | 0.125                  | 0.139                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Back          | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.01             | 0.202                  | 0.225                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Left Side     | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.05             | 0.212                  | 0.236                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Right Side    | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.02             | 0.169                  | 0.188                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.01             | 0.094                  | 0.105                  |



# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 34       | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Front         | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.12             | 0.412                  | 0.463                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Back          | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.18             | 0.537                  | 0.604                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Side     | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.06             | 0.259                  | 0.291                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Top Side      | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.11             | 0.363                  | 0.408                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Front         | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.06             | 0.315                  | 0.352                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Back          | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.08             | 0.413                  | 0.461                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Side     | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.06             | 0.195                  | 0.218                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Top Side      | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.07             | 0.278                  | 0.310                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Front         | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.04             | 0.212                  | 0.238                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Back          | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.06             | 0.358                  | 0.403                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Left Side     | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.05             | 0.149                  | 0.168                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Right Side    | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.08             | 0.087                  | 0.098                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Bottom Side   | 10       | Full            | 23230 | 782         | 23.99               | 24.50               | 1.125                  | 0.1              | 0.195                  | 0.219                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Front         | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.02             | 0.169                  | 0.189                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Back          | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.09             | 0.284                  | 0.317                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Left Side     | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.06             | 0.150                  | 0.168                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Right Side    | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.09             | 0.073                  | 0.082                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10       | Full            | 23230 | 782         | 23.02               | 23.50               | 1.117                  | 0.01             | 0.154                  | 0.172                  |



| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.05             | 0.221                  | 0.242                  |
| 35       | 2       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.07             | 0.581                  | 0.636                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.05             | 0.183                  | 0.200                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.04             | 0.422                  | 0.462                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Front         | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.06             | 0.187                  | 0.200                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Back          | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.02             | 0.533                  | 0.571                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Left Side     | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.04             | 0.127                  | 0.136                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Top Side      | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.02             | 0.357                  | 0.383                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | -0.03            | 0.302                  | 0.330                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.04             | 0.432                  | 0.473                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.04             | 0.207                  | 0.226                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Right Side    | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.03             | 0.165                  | 0.181                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Full            | 20525 | 836.5       | 24.11               | 24.50               | 1.094                  | 0.02             | 0.219                  | 0.240                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Front         | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | -0.03            | 0.245                  | 0.263                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Back          | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.04             | 0.356                  | 0.381                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Left Side     | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.09             | 0.158                  | 0.169                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Right Side    | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.05             | 0.090                  | 0.096                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10       | Full            | 20525 | 836.5       | 23.2                | 23.50               | 1.072                  | 0.02             | 0.172                  | 0.184                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.03             | 0.395                  | 0.426                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.09             | 0.524                  | 0.565                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.06             | 0.183                  | 0.197                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.04             | 0.351                  | 0.379                  |
| 36       | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26765 | 821.5       | 23.43               | 24.00               | 1.140                  | 0.08             | 0.523                  | 0.596                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26865 | 831.5       | 23.53               | 24.00               | 1.114                  | 0.08             | 0.305                  | 0.340                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Front         | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.05             | 0.334                  | 0.354                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Back          | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.03             | 0.432                  | 0.458                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Side     | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.04             | 0.142                  | 0.150                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Top Side      | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | -0.05            | 0.290                  | 0.307                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | -0.05            | 0.245                  | 0.264                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.09             | 0.382                  | 0.412                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.04             | 0.206                  | 0.222                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Right Side    | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.06             | 0.125                  | 0.135                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Full            | 26965 | 841.5       | 23.67               | 24.00               | 1.079                  | 0.07             | 0.176                  | 0.190                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26765 | 821.5       | 23.43               | 24.00               | 1.140                  | 0.02             | 0.310                  | 0.353                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26865 | 831.5       | 23.53               | 24.00               | 1.114                  | 0.02             | 0.319                  | 0.355                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Front         | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.04             | 0.212                  | 0.225                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Back          | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.06             | 0.310                  | 0.328                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Left Side     | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.01             | 0.159                  | 0.168                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Right Side    | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | 0.01             | 0.096                  | 0.102                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Bottom Side   | 10       | Full            | 26965 | 841.5       | 22.75               | 23.00               | 1.059                  | -0.03            | 0.143                  | 0.151                  |



| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | 0.06             | 0.211                  | 0.229                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | 0.07             | 0.744                  | 0.808                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | 0.03             | 0.134                  | 0.146                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | 0.04             | 0.729                  | 0.792                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 132072 | 1720        | 23.88               | 24.50               | 1.153                  | 0.09             | 0.484                  | 0.558                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 132572 | 1770        | 23.95               | 24.50               | 1.135                  | 0.04             | 0.585                  | 0.664                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.05             | 0.170                  | 0.185                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.01             | 0.582                  | 0.634                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.02             | 0.216                  | 0.235                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Top Side      | 10       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.06             | 0.629                  | 0.685                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Back          | 10       | Full            | 132322 | 1745        | 23.00               | 23.50               | 1.122                  | 0.05             | 0.320                  | 0.359                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Reduced Level 1 | 132322 | 1745        | 19.58               | 20.00               | 1.102                  | 0.03             | 0.375                  | 0.413                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Reduced Level 1 | 132322 | 1745        | 19.58               | 20.00               | 1.102                  | 0.01             | 0.574                  | 0.632                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Reduced Level 1 | 132322 | 1745        | 19.58               | 20.00               | 1.102                  | -0.07            | 0.085                  | 0.094                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Right Side    | 10       | Reduced Level 1 | 132322 | 1745        | 19.58               | 20.00               | 1.102                  | 0.03             | 0.291                  | 0.321                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 132322 | 1745        | 19.58               | 20.00               | 1.102                  | 0.06             | 0.935                  | 1.030                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 132072 | 1720        | 19.35               | 20.00               | 1.161                  | 0.05             | 0.786                  | 0.913                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 132572 | 1770        | 19.49               | 20.00               | 1.125                  | 0.04             | 0.747                  | 0.840                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Reduced Level 1 | 132322 | 1745        | 19.4                | 20.00               | 1.148                  | 0.05             | 0.323                  | 0.371                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Reduced Level 1 | 132322 | 1745        | 19.4                | 20.00               | 1.148                  | 0.02             | 0.547                  | 0.628                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Reduced Level 1 | 132322 | 1745        | 19.4                | 20.00               | 1.148                  | 0.06             | 0.078                  | 0.089                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Right Side    | 10       | Reduced Level 1 | 132322 | 1745        | 19.4                | 20.00               | 1.148                  | 0.01             | 0.225                  | 0.258                  |
| 37       | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 132322 | 1745        | 19.4                | 20.00               | 1.148                  | 0.08             | 0.952                  | 1.093                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 132072 | 1720        | 19.27               | 20.00               | 1.183                  | 0.08             | 0.627                  | 0.742                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 132572 | 1770        | 19.3                | 20.00               | 1.175                  | 0.04             | 0.742                  | 0.872                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10       | Reduced Level 1 | 132322 | 1745        | 19.31               | 20.00               | 1.172                  | 0.02             | 0.821                  | 0.962                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | 0.05             | 0.522                  | 0.579                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | 0.06             | 0.689                  | 0.764                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | 0.02             | 0.334                  | 0.370                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | 0.03             | 0.686                  | 0.761                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26140  | 1860        | 23.25               | 24.00               | 1.189                  | 0.01             | 0.480                  | 0.570                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 26340  | 1880        | 23.3                | 24.00               | 1.175                  | 0.07             | 0.561                  | 0.659                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | 0.07             | 0.419                  | 0.447                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | 0.07             | 0.558                  | 0.595                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | 0.04             | 0.276                  | 0.294                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Top Side      | 10       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | 0.13             | 0.536                  | 0.572                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Reduced Level 1 | 26590  | 1905        | 20.15               | 20.50               | 1.084                  | 0.02             | 0.427                  | 0.463                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Reduced Level 1 | 26590  | 1905        | 20.15               | 20.50               | 1.084                  | 0.05             | 0.653                  | 0.708                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Reduced Level 1 | 26590  | 1905        | 20.15               | 20.50               | 1.084                  | 0.02             | 0.062                  | 0.067                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Right Side    | 10       | Reduced Level 1 | 26590  | 1905        | 20.15               | 20.50               | 1.084                  | -0.07            | 0.114                  | 0.124                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 26590  | 1905        | 20.15               | 20.50               | 1.084                  | 0.05             | 1.080                  | 1.171                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 26140  | 1860        | 19.89               | 20.50               | 1.151                  | 0.03             | 0.937                  | 1.078                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 26340  | 1880        | 19.82               | 20.50               | 1.169                  | 0.02             | 0.970                  | 1.134                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Reduced Level 1 | 26590  | 1905        | 19.93               | 20.50               | 1.140                  | 0.06             | 0.396                  | 0.452                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Reduced Level 1 | 26590  | 1905        | 19.93               | 20.50               | 1.140                  | 0.05             | 0.635                  | 0.724                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Reduced Level 1 | 26590  | 1905        | 19.93               | 20.50               | 1.140                  | 0.01             | 0.063                  | 0.072                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Right Side    | 10       | Reduced Level 1 | 26590  | 1905        | 19.93               | 20.50               | 1.140                  | 0.06             | 0.109                  | 0.124                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 26590  | 1905        | 19.93               | 20.50               | 1.140                  | 0.06             | 1.090                  | 1.243                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 26140  | 1860        | 19.63               | 20.50               | 1.222                  | 0.09             | 0.953                  | 1.164                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 26340  | 1880        | 19.62               | 20.50               | 1.225                  | 0.03             | 0.982                  | 1.203                  |
| 38       | 1       | LTE Band 25 | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10       | Reduced Level 1 | 26590  | 1905        | 19.86               | 20.50               | 1.159                  | 0.01             | 1.080                  | 1.251                  |





# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band       | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 19100 | 1900        | 23.87               | 24.50               | 1.156                  | 0.04             | 0.557                  | 0.644                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 19100 | 1900        | 23.87               | 24.50               | 1.156                  | 0.02             | 0.703                  | 0.813                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 19100 | 1900        | 23.87               | 24.50               | 1.156                  | 0.06             | 0.362                  | 0.419                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 19100 | 1900        | 23.87               | 24.50               | 1.156                  | 0.07             | 0.769                  | 0.889                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 18700 | 1860        | 23.45               | 24.50               | 1.274                  | 0.01             | 0.616                  | 0.784                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 18900 | 1880        | 23.44               | 24.50               | 1.276                  | 0.09             | 0.639                  | 0.816                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 18700 | 1860        | 23.45               | 24.50               | 1.274                  | 0.06             | 0.697                  | 0.888                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 18900 | 1880        | 23.44               | 24.50               | 1.276                  | 0.09             | 0.733                  | 0.936                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Full            | 19100 | 1900        | 22.78               | 23.50               | 1.180                  | 0.02             | 0.444                  | 0.524                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 19100 | 1900        | 22.78               | 23.50               | 1.180                  | -0.05            | 0.550                  | 0.649                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Full            | 19100 | 1900        | 22.78               | 23.50               | 1.180                  | 0.03             | 0.267                  | 0.315                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Top Side      | 10       | Full            | 19100 | 1900        | 22.78               | 23.50               | 1.180                  | 0.04             | 0.551                  | 0.650                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 100     | 0         | Back          | 10       | Full            | 19100 | 1900        | 22.76               | 23.50               | 1.186                  | 0.06             | 0.564                  | 0.669                  |
|          | 2       | LTE Band 2 | 20M      | QPSK       | 100     | 0         | Top Side      | 10       | Full            | 19100 | 1900        | 22.76               | 23.50               | 1.186                  | 0.01             | 0.562                  | 0.666                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Reduced Level 1 | 19100 | 1900        | 20.69               | 21.00               | 1.074                  | 0.03             | 0.411                  | 0.441                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Reduced Level 1 | 19100 | 1900        | 20.69               | 21.00               | 1.074                  | 0.02             | 0.643                  | 0.691                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Reduced Level 1 | 19100 | 1900        | 20.69               | 21.00               | 1.074                  | 0.04             | 0.123                  | 0.132                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Right Side    | 10       | Reduced Level 1 | 19100 | 1900        | 20.69               | 21.00               | 1.074                  | -0.08            | 0.356                  | 0.382                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 19100 | 1900        | 20.69               | 21.00               | 1.074                  | 0.06             | 1.190                  | 1.278                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 18700 | 1860        | 20.13               | 21.00               | 1.222                  | 0.03             | 0.977                  | 1.194                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10       | Reduced Level 1 | 18900 | 1880        | 20.25               | 21.00               | 1.189                  | 0.07             | 1.030                  | 1.224                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Reduced Level 1 | 19100 | 1900        | 20.46               | 21.00               | 1.132                  | 0.02             | 0.373                  | 0.422                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Reduced Level 1 | 19100 | 1900        | 20.46               | 21.00               | 1.132                  | 0.01             | 0.577                  | 0.653                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Reduced Level 1 | 19100 | 1900        | 20.46               | 21.00               | 1.132                  | 0.05             | 0.098                  | 0.111                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Right Side    | 10       | Reduced Level 1 | 19100 | 1900        | 20.46               | 21.00               | 1.132                  | -0.06            | 0.279                  | 0.316                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 19100 | 1900        | 20.46               | 21.00               | 1.132                  | 0.08             | 1.050                  | 1.189                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 18700 | 1860        | 20.08               | 21.00               | 1.236                  | 0.02             | 1.000                  | 1.236                  |
|          | 1       | LTE Band 2 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10       | Reduced Level 1 | 18900 | 1880        | 20.12               | 21.00               | 1.225                  | 0.08             | 1.040                  | 1.274                  |
| 39       | 1       | LTE Band 2 | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10       | Reduced Level 1 | 19100 | 1900        | 20.44               | 21.00               | 1.138                  | 0.05             | 1.160                  | 1.320                  |





| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.                           | Freq. (MHz)                   | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------------------------|-------------------------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 40       | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 27710                         | 2310                          | 23.26               | 24.00               | 1.186                  | 0.04             | 0.427                  | 0.506                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 27710                         | 2310                          | 23.26               | 24.00               | 1.186                  | -0.08            | 0.740                  | 0.877                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 27710                         | 2310                          | 23.26               | 24.00               | 1.186                  | 0.03             | 0.618                  | 0.733                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 27710                         | 2310                          | 23.26               | 24.00               | 1.186                  | -0.02            | 0.124                  | 0.147                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Front         | 10       | Full            | 27710                         | 2310                          | 22.19               | 23.00               | 1.205                  | 0.03             | 0.329                  | 0.396                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Back          | 10       | Full            | 27710                         | 2310                          | 22.19               | 23.00               | 1.205                  | -0.11            | 0.627                  | 0.756                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Left Side     | 10       | Full            | 27710                         | 2310                          | 22.19               | 23.00               | 1.205                  | 0.05             | 0.496                  | 0.598                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Top Side      | 10       | Full            | 27710                         | 2310                          | 22.19               | 23.00               | 1.205                  | -0.03            | 0.093                  | 0.113                  |
| 41       | 3       | LTE Band 30 | 10M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 27710                         | 2310                          | 22.17               | 23.00               | 1.211                  | 0.05             | 0.583                  | 0.706                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 21350                         | 2560                          | 23.69               | 24.00               | 1.074                  | 0.03             | 0.347                  | 0.373                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 21350                         | 2560                          | 23.69               | 24.00               | 1.074                  | -0.07            | 0.816                  | 0.876                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 21350                         | 2560                          | 23.69               | 24.00               | 1.074                  | 0.09             | 0.834                  | 0.896                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 21350                         | 2560                          | 23.69               | 24.00               | 1.074                  | 0.01             | 0.122                  | 0.131                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 20850                         | 2510                          | 23.64               | 24.00               | 1.086                  | -0.1             | 0.765                  | 0.831                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 21100                         | 2535                          | 23.65               | 24.00               | 1.084                  | -0.1             | 0.804                  | 0.871                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 20850                         | 2510                          | 23.64               | 24.00               | 1.086                  | -0.04            | 0.827                  | 0.898                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 21100                         | 2535                          | 23.65               | 24.00               | 1.084                  | -0.06            | 0.840                  | 0.910                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 21100(PCC)<br>+<br>20902(SCC) | 2535(PCC)<br>+<br>2515.2(SCC) | 23.41               | 24.00               | 1.146                  | -0.07            | 0.754                  | 0.864                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 20850(PCC)<br>+<br>21048(SCC) | 2510(PCC)<br>+<br>2529.8(SCC) | 23.15               | 24.00               | 1.216                  | 0.09             | 0.657                  | 0.799                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 21350(PCC)<br>+<br>21152(SCC) | 2560(PCC)<br>+<br>2540.2(SCC) | 23.48               | 24.00               | 1.127                  | 0.01             | 0.802                  | 0.904                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 50      | 0         | Front         | 10       | Full            | 21350                         | 2560                          | 22.63               | 23.00               | 1.089                  | 0.04             | 0.293                  | 0.319                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 21350                         | 2560                          | 22.63               | 23.00               | 1.089                  | 0.06             | 0.626                  | 0.682                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Full            | 21350                         | 2560                          | 22.63               | 23.00               | 1.089                  | 0.01             | 0.652                  | 0.710                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 50      | 0         | Top Side      | 10       | Full            | 21350                         | 2560                          | 22.63               | 23.00               | 1.089                  | -0.05            | 0.098                  | 0.106                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 100     | 0         | Back          | 10       | Full            | 21350                         | 2560                          | 22.61               | 23.00               | 1.094                  | 0.05             | 0.661                  | 0.723                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 100     | 0         | Left Side     | 10       | Full            | 21350                         | 2560                          | 22.61               | 23.00               | 1.094                  | -0.05            | 0.657                  | 0.719                  |



**<TDD LTE SAR>**

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.                     | Freq. (MHz)             | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------------------|-------------------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Front         | 10       | Full            | 41055                   | 2636.5                  | 23.36               | 24.00               | 1.159                  | 62.9         | 1.006                     | 0.05             | 0.202                  | 0.235                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 41055                   | 2636.5                  | 23.36               | 24.00               | 1.159                  | 62.9         | 1.006                     | -0.01            | 0.538                  | 0.627                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 41055                   | 2636.5                  | 23.36               | 24.00               | 1.159                  | 62.9         | 1.006                     | -0.1             | 0.578                  | 0.674                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Top Side      | 10       | Full            | 41055                   | 2636.5                  | 23.36               | 24.00               | 1.159                  | 62.9         | 1.006                     | -0.05            | 0.047                  | 0.055                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 39750                   | 2506                    | 22.87               | 24.00               | 1.297                  | 62.9         | 1.006                     | -0.02            | 0.399                  | 0.521                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 40185                   | 2549.5                  | 22.97               | 24.00               | 1.268                  | 62.9         | 1.006                     | -0.07            | 0.443                  | 0.565                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 40620                   | 2593                    | 22.94               | 24.00               | 1.276                  | 62.9         | 1.006                     | -0.01            | 0.459                  | 0.589                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 10       | Full            | 41490                   | 2680                    | 23.29               | 24.00               | 1.178                  | 62.9         | 1.006                     | 0.07             | 0.476                  | 0.564                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 39750                   | 2506                    | 22.87               | 24.00               | 1.297                  | 62.9         | 1.006                     | -0.16            | 0.496                  | 0.647                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 40185                   | 2549.5                  | 22.97               | 24.00               | 1.268                  | 62.9         | 1.006                     | -0.13            | 0.512                  | 0.653                  |
| 42       | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 40620                   | 2593                    | 22.94               | 24.00               | 1.276                  | 62.9         | 1.006                     | -0.12            | 0.553                  | 0.710                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 41490                   | 2680                    | 23.29               | 24.00               | 1.178                  | 62.9         | 1.006                     | -0.15            | 0.538                  | 0.637                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Left Side     | 10       | Full            | 40620(PCC) + 40422(SCC) | 2593(PCC) + 2573.2(SCC) | 23.32               | 24.00               | 1.169                  | 62.9         | 1.006                     | 0.04             | 0.341                  | 0.401                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Front         | 10       | Full            | 41055                   | 2636.5                  | 22.52               | 23.00               | 1.117                  | 62.9         | 1.006                     | 0.03             | 0.156                  | 0.175                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Back          | 10       | Full            | 41055                   | 2636.5                  | 22.52               | 23.00               | 1.117                  | 62.9         | 1.006                     | 0.05             | 0.451                  | 0.507                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Left Side     | 10       | Full            | 41055                   | 2636.5                  | 22.52               | 23.00               | 1.117                  | 62.9         | 1.006                     | 0.04             | 0.450                  | 0.506                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Top Side      | 10       | Full            | 41055                   | 2636.5                  | 22.52               | 23.00               | 1.117                  | 62.9         | 1.006                     | 0.09             | 0.036                  | 0.040                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 100     | 0         | Back          | 10       | Full            | 41055                   | 2636.5                  | 22.38               | 23.00               | 1.153                  | 62.9         | 1.006                     | -0.02            | 0.431                  | 0.500                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 100     | 0         | Left Side     | 10       | Full            | 41055                   | 2636.5                  | 22.38               | 23.00               | 1.153                  | 62.9         | 1.006                     | 0.06             | 0.439                  | 0.509                  |



## &lt;WLAN 2.4GHz SAR&gt;

| Plot No. | Antenna | Band       | Mode          | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|---------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10       | Full            | 6   | 2437        | 19.03               | 19.5                | 1.114                  | 99.31        | 1.007                     | 0.05             | 0.167                  | 0.187                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10       | Full            | 6   | 2437        | 19.03               | 19.5                | 1.114                  | 99.31        | 1.007                     | 0.01             | 0.161                  | 0.181                  |
| 43       | 1       | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10       | Full            | 6   | 2437        | 19.03               | 19.5                | 1.114                  | 99.31        | 1.007                     | 0.13             | 0.245                  | 0.275                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10       | Full            | 6   | 2437        | 19.03               | 19.5                | 1.114                  | 99.31        | 1.007                     | 0.06             | 0.116                  | 0.130                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10       | Full            | 1   | 2412        | 18.6                | 19.5                | 1.230                  | 99.31        | 1.007                     | 0.07             | 0.167                  | 0.207                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10       | Full            | 11  | 2462        | 18.84               | 19.5                | 1.164                  | 99.31        | 1.007                     | 0.05             | 0.222                  | 0.260                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10       | Full            | 6   | 2437        | 16.24               | 16.5                | 1.062                  | 99.34        | 1.007                     | 0.09             | 0.096                  | 0.103                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10       | Full            | 6   | 2437        | 16.24               | 16.5                | 1.062                  | 99.34        | 1.007                     | -0.16            | 0.175                  | 0.187                  |
| 44       | 2       | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10       | Full            | 6   | 2437        | 16.24               | 16.5                | 1.062                  | 99.34        | 1.007                     | 0.03             | 0.196                  | 0.210                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10       | Full            | 6   | 2437        | 16.24               | 16.5                | 1.062                  | 99.34        | 1.007                     | -0.02            | 0.072                  | 0.077                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10       | Full            | 1   | 2412        | 15.77               | 16.5                | 1.183                  | 99.34        | 1.007                     | 0.01             | 0.153                  | 0.182                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10       | Full            | 11  | 2462        | 15.87               | 16.5                | 1.156                  | 99.34        | 1.007                     | 0.05             | 0.173                  | 0.201                  |

## &lt;WLAN 5GHz SAR&gt;

| Plot No. | Antenna | Band       | Mode              | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1+2     | WLAN5.2GHz | 802.11n-HT40 MCS0 | Front         | 10       | Full            | 46  | 5230        | 20.46               | 20.50               | 1.010                  | 96.46        | 1.037                     | 0.02             | 0.102                  | 0.107                  |
| 45       | 1+2     | WLAN5.2GHz | 802.11n-HT40 MCS0 | Back          | 10       | Full            | 46  | 5230        | 20.46               | 20.50               | 1.010                  | 96.46        | 1.037                     | 0.08             | 0.641                  | 0.671                  |
|          | 1+2     | WLAN5.2GHz | 802.11n-HT40 MCS0 | Right Side    | 10       | Full            | 46  | 5230        | 20.46               | 20.50               | 1.010                  | 96.46        | 1.037                     | 0.06             | 0.256                  | 0.268                  |
|          | 1+2     | WLAN5.2GHz | 802.11n-HT40 MCS0 | Top Side      | 10       | Full            | 46  | 5230        | 20.46               | 20.50               | 1.010                  | 96.46        | 1.037                     | 0.02             | 0.114                  | 0.119                  |
|          | 1+2     | WLAN5.2GHz | 802.11n-HT40 MCS0 | Back          | 10       | Full            | 38  | 5190        | 20.41               | 20.50               | 1.021                  | 96.46        | 1.037                     | -0.06            | 0.632                  | 0.669                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Front         | 10       | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 0.04             | 0.072                  | 0.076                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Back          | 10       | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 0.01             | 0.501                  | 0.524                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Right Side    | 10       | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | -0.03            | 0.205                  | 0.214                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Top Side      | 10       | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | -0.05            | 0.066                  | 0.069                  |
| 46       | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Back          | 10       | Full            | 151 | 5755        | 17.67               | 18.00               | 1.079                  | 96.46        | 1.037                     | -0.01            | 0.561                  | 0.627                  |

## &lt;Bluetooth SAR&gt;

| Plot No. | Antenna | Band      | Mode  | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-----------|-------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1       | Bluetooth | 1Mbps | Front         | 10       | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.06             | 0.034                  | 0.040                  |
|          | 1       | Bluetooth | 1Mbps | Back          | 10       | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.04             | 0.033                  | 0.039                  |
|          | 1       | Bluetooth | 1Mbps | Right Side    | 10       | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.07             | 0.065                  | 0.077                  |
|          | 1       | Bluetooth | 1Mbps | Top Side      | 10       | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.03             | 0.022                  | 0.025                  |
| 47       | 1       | Bluetooth | 1Mbps | Right Side    | 10       | Full            | 39  | 2441        | 12.71               | 13.10               | 1.094                  | 76.84        | 1.084                     | 0.07             | 0.080                  | 0.095                  |
|          | 1       | Bluetooth | 1Mbps | Right Side    | 10       | Full            | 78  | 2480        | 12.18               | 13.10               | 1.236                  | 76.84        | 1.084                     | 0.07             | 0.068                  | 0.091                  |



### 14.3 Body Worn Accessory SAR

#### <GSM SAR>

| Plot No. | Antenna | Band    | Mode             | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------|------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | GSM850  | GPRS(3 Tx slots) | Front         | 15       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.03             | 0.188                  | 0.217                  |
|          | 2       | GSM850  | GPRS(3 Tx slots) | Back          | 15       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.03             | 0.223                  | 0.257                  |
|          | 2       | GSM850  | GPRS(3 Tx slots) | Back          | 15       | Full            | 128 | 824.2       | 28.88               | 29.80               | 1.236                  | 0.02             | 0.221                  | 0.273                  |
| 48       | 2       | GSM850  | GPRS(3 Tx slots) | Back          | 15       | Full            | 189 | 836.4       | 29.05               | 29.80               | 1.189                  | 0.04             | 0.236                  | 0.280                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Front         | 15       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.02             | 0.181                  | 0.209                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Back          | 15       | Full            | 251 | 848.8       | 29.18               | 29.80               | 1.153                  | 0.03             | 0.198                  | 0.228                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Back          | 15       | Full            | 128 | 824.2       | 28.88               | 29.80               | 1.236                  | 0.01             | 0.220                  | 0.272                  |
|          | 1       | GSM850  | GPRS(3 Tx slots) | Back          | 15       | Full            | 189 | 836.4       | 29.05               | 29.80               | 1.189                  | 0.08             | 0.190                  | 0.226                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Front         | 15       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.03             | 0.102                  | 0.120                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Back          | 15       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.04             | 0.126                  | 0.148                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Back          | 15       | Full            | 512 | 1850.2      | 25.18               | 26.00               | 1.208                  | 0.01             | 0.132                  | 0.159                  |
|          | 2       | GSM1900 | GPRS(3 Tx slots) | Back          | 15       | Full            | 661 | 1880        | 25.29               | 26.00               | 1.178                  | -0.02            | 0.138                  | 0.163                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Front         | 15       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.1              | 0.214                  | 0.251                  |
| 49       | 1       | GSM1900 | GPRS(3 Tx slots) | Back          | 15       | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | -0.06            | 0.330                  | 0.387                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Back          | 15       | Full            | 512 | 1850.2      | 25.18               | 26.00               | 1.208                  | 0.01             | 0.320                  | 0.387                  |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Back          | 15       | Full            | 661 | 1880        | 25.29               | 26.00               | 1.178                  | -0.03            | 0.317                  | 0.373                  |

#### <WCDMA SAR>

| Plot No. | Antenna | Band          | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|---------------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Front         | 15       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.06             | 0.221                  | 0.253                  |
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Back          | 15       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | -0.05            | 0.263                  | 0.301                  |
|          | 2       | WCDMA Band V  | RMC 12.2Kbps | Back          | 15       | Full            | 4132 | 826.4       | 23.88               | 24.50               | 1.153                  | 0.01             | 0.268                  | 0.309                  |
| 50       | 2       | WCDMA Band V  | RMC 12.2Kbps | Back          | 15       | Full            | 4233 | 846.6       | 23.89               | 24.50               | 1.151                  | -0.15            | 0.275                  | 0.316                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Front         | 15       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.06             | 0.188                  | 0.215                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Back          | 15       | Full            | 4182 | 836.4       | 23.92               | 24.50               | 1.143                  | 0.06             | 0.220                  | 0.251                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Back          | 15       | Full            | 4132 | 826.4       | 23.88               | 24.50               | 1.153                  | 0.03             | 0.216                  | 0.249                  |
|          | 1       | WCDMA Band V  | RMC 12.2Kbps | Back          | 15       | Full            | 4233 | 846.6       | 23.89               | 24.50               | 1.151                  | 0.05             | 0.217                  | 0.250                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Front         | 15       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.03             | 0.259                  | 0.282                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Back          | 15       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | 0.05             | 0.335                  | 0.365                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Back          | 15       | Full            | 1312 | 1712.4      | 24.41               | 25.00               | 1.146                  | 0.01             | 0.292                  | 0.334                  |
|          | 2       | WCDMA Band IV | RMC 12.2Kbps | Back          | 15       | Full            | 1413 | 1732.6      | 24.61               | 25.00               | 1.094                  | -0.05            | 0.321                  | 0.351                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Front         | 15       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | -0.02            | 0.585                  | 0.637                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Back          | 15       | Full            | 1513 | 1752.6      | 24.63               | 25.00               | 1.089                  | -0.03            | 0.913                  | 0.994                  |
| 51       | 1       | WCDMA Band IV | RMC 12.2Kbps | Back          | 15       | Full            | 1312 | 1712.4      | 24.41               | 25.00               | 1.146                  | 0.05             | 0.988                  | 1.132                  |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Back          | 15       | Full            | 1413 | 1732.6      | 24.61               | 25.00               | 1.094                  | 0.06             | 1.000                  | 1.094                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Front         | 15       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.05             | 0.280                  | 0.315                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Back          | 15       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.02             | 0.412                  | 0.463                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Back          | 15       | Full            | 9400 | 1880        | 24.42               | 25.00               | 1.143                  | -0.02            | 0.431                  | 0.493                  |
|          | 2       | WCDMA Band II | RMC 12.2Kbps | Back          | 15       | Full            | 9538 | 1907.6      | 24.45               | 25.00               | 1.135                  | 0.01             | 0.456                  | 0.518                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Front         | 15       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | -0.01            | 0.606                  | 0.682                  |
| 52       | 1       | WCDMA Band II | RMC 12.2Kbps | Back          | 15       | Full            | 9262 | 1852.4      | 24.49               | 25.00               | 1.125                  | 0.06             | 1.060                  | 1.192                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Back          | 15       | Full            | 9400 | 1880        | 24.42               | 25.00               | 1.143                  | 0.05             | 0.906                  | 1.035                  |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Back          | 15       | Full            | 9538 | 1907.6      | 24.45               | 25.00               | 1.135                  | 0.02             | 0.980                  | 1.112                  |

**<CDMA2000 SAR>**

| Plot No. | Antenna | Band         | Mode             | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|--------------|------------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Front         | 15       | Full            | 384  | 836.52      | 24.16               | 24.50               | 1.081                  | 0.03             | 0.137                  | 0.148                  |
|          | 2       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 384  | 836.52      | 24.16               | 24.50               | 1.081                  | 0.05             | 0.176                  | 0.190                  |
|          | 2       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 1013 | 824.7       | 24.08               | 24.50               | 1.102                  | 0.04             | 0.175                  | 0.193                  |
|          | 2       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 777  | 848.31      | 23.95               | 24.50               | 1.135                  | 0.06             | 0.187                  | 0.212                  |
|          | 1       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Front         | 15       | Full            | 384  | 836.52      | 24.16               | 24.50               | 1.081                  | 0.06             | 0.164                  | 0.177                  |
|          | 1       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 384  | 836.52      | 24.16               | 24.50               | 1.081                  | 0.03             | 0.187                  | 0.202                  |
| 53       | 1       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 1013 | 824.7       | 24.08               | 24.50               | 1.102                  | 0.06             | 0.197                  | 0.217                  |
|          | 1       | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 777  | 848.31      | 23.95               | 24.50               | 1.135                  | 0.06             | 0.183                  | 0.208                  |
|          | 2       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Front         | 15       | Full            | 1175 | 1908.75     | 23.96               | 24.50               | 1.132                  | 0.17             | 0.226                  | 0.256                  |
|          | 2       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 1175 | 1908.75     | 23.96               | 24.50               | 1.132                  | 0.01             | 0.391                  | 0.443                  |
|          | 2       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 25   | 1851.25     | 23.77               | 24.50               | 1.183                  | 0.08             | 0.358                  | 0.424                  |
|          | 2       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 600  | 1880        | 23.83               | 24.50               | 1.167                  | 0.13             | 0.387                  | 0.452                  |
|          | 1       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Front         | 15       | Full            | 1175 | 1908.75     | 23.96               | 24.50               | 1.132                  | 0.18             | 0.565                  | 0.640                  |
| 54       | 1       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 1175 | 1908.75     | 23.96               | 24.50               | 1.132                  | 0.06             | 0.874                  | 0.990                  |
|          | 1       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 25   | 1851.25     | 23.77               | 24.50               | 1.183                  | 0.15             | 0.760                  | 0.899                  |
|          | 1       | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back          | 15       | Full            | 600  | 1880        | 23.83               | 24.50               | 1.167                  | 0.02             | 0.791                  | 0.923                  |



## &lt;FDD LTE SAR&gt;

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.05             | 0.170                  | 0.183                  |
| 55       | 2       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.02             | 0.226                  | 0.243                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.01             | 0.144                  | 0.156                  |
|          | 2       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.04             | 0.186                  | 0.202                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.06             | 0.115                  | 0.124                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | 0.02             | 0.162                  | 0.174                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.03             | 0.097                  | 0.105                  |
|          | 1       | LTE Band 71 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 133322 | 683         | 23.44               | 23.80               | 1.086                  | 0.07             | 0.136                  | 0.148                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.06             | 0.152                  | 0.173                  |
| 56       | 2       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.04             | 0.217                  | 0.246                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Front         | 15       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.08             | 0.126                  | 0.140                  |
|          | 2       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Back          | 15       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.09             | 0.169                  | 0.188                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.02             | 0.152                  | 0.173                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 23095  | 707.5       | 23.95               | 24.50               | 1.135                  | 0.05             | 0.195                  | 0.221                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Front         | 15       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.04             | 0.123                  | 0.137                  |
|          | 1       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | Back          | 15       | Full            | 23095  | 707.5       | 23.03               | 23.50               | 1.114                  | 0.04             | 0.159                  | 0.177                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Front         | 15       | Full            | 23230  | 782         | 23.99               | 24.50               | 1.125                  | 0.02             | 0.172                  | 0.193                  |
| 57       | 2       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Back          | 15       | Full            | 23230  | 782         | 23.99               | 24.50               | 1.125                  | 0.05             | 0.231                  | 0.260                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Front         | 15       | Full            | 23230  | 782         | 23.02               | 23.50               | 1.117                  | 0.02             | 0.135                  | 0.151                  |
|          | 2       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Back          | 15       | Full            | 23230  | 782         | 23.02               | 23.50               | 1.117                  | 0.01             | 0.182                  | 0.203                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Front         | 15       | Full            | 23230  | 782         | 23.99               | 24.50               | 1.125                  | 0.09             | 0.163                  | 0.183                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 1       | 49        | Back          | 15       | Full            | 23230  | 782         | 23.99               | 24.50               | 1.125                  | 0.06             | 0.199                  | 0.224                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Front         | 15       | Full            | 23230  | 782         | 23.02               | 23.50               | 1.117                  | 0.09             | 0.135                  | 0.151                  |
|          | 1       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | Back          | 15       | Full            | 23230  | 782         | 23.02               | 23.50               | 1.117                  | 0.05             | 0.161                  | 0.180                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 20525  | 836.5       | 24.11               | 24.50               | 1.094                  | 0.02             | 0.103                  | 0.113                  |
| 58       | 2       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 20525  | 836.5       | 24.11               | 24.50               | 1.094                  | 0.1              | 0.245                  | 0.268                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Front         | 15       | Full            | 20525  | 836.5       | 23.2                | 23.50               | 1.072                  | 0.01             | 0.088                  | 0.094                  |
|          | 2       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Back          | 15       | Full            | 20525  | 836.5       | 23.2                | 23.50               | 1.072                  | 0.09             | 0.197                  | 0.211                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 20525  | 836.5       | 24.11               | 24.50               | 1.094                  | 0.08             | 0.171                  | 0.187                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 20525  | 836.5       | 24.11               | 24.50               | 1.094                  | 0.02             | 0.196                  | 0.214                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Front         | 15       | Full            | 20525  | 836.5       | 23.2                | 23.50               | 1.072                  | 0.09             | 0.134                  | 0.144                  |
|          | 1       | LTE Band 5  | 10M      | QPSK       | 25      | 12        | Back          | 15       | Full            | 20525  | 836.5       | 23.2                | 23.50               | 1.072                  | 0.02             | 0.150                  | 0.161                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 26965  | 841.5       | 23.67               | 24.00               | 1.079                  | 0.02             | 0.195                  | 0.210                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26965  | 841.5       | 23.67               | 24.00               | 1.079                  | 0.08             | 0.228                  | 0.246                  |
| 59       | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26765  | 821.5       | 23.43               | 24.00               | 1.140                  | 0.07             | 0.234                  | 0.267                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26865  | 831.5       | 23.53               | 24.00               | 1.114                  | 0.05             | 0.187                  | 0.208                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Front         | 15       | Full            | 26965  | 841.5       | 22.75               | 23.00               | 1.059                  | 0.05             | 0.154                  | 0.163                  |
|          | 2       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Back          | 15       | Full            | 26965  | 841.5       | 22.75               | 23.00               | 1.059                  | 0.06             | 0.172                  | 0.182                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 26965  | 841.5       | 23.67               | 24.00               | 1.079                  | 0.05             | 0.146                  | 0.158                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26965  | 841.5       | 23.67               | 24.00               | 1.079                  | 0.03             | 0.175                  | 0.189                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26765  | 821.5       | 23.43               | 24.00               | 1.140                  | 0.04             | 0.187                  | 0.213                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26865  | 831.5       | 23.53               | 24.00               | 1.114                  | 0.02             | 0.186                  | 0.207                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Front         | 15       | Full            | 26965  | 841.5       | 22.75               | 23.00               | 1.059                  | -0.01            | 0.118                  | 0.125                  |
|          | 1       | LTE Band 26 | 15M      | QPSK       | 36      | 0         | Back          | 15       | Full            | 26965  | 841.5       | 22.75               | 23.00               | 1.059                  | -0.04            | 0.122                  | 0.129                  |



# FCC SAR Test Report

Report No. : FA871004-01

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | -0.07            | 0.273                  | 0.297                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | 0.09             | 0.334                  | 0.363                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 132072 | 1720        | 23.88               | 24.50               | 1.153                  | -0.03            | 0.095                  | 0.110                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 132572 | 1770        | 23.95               | 24.50               | 1.135                  | 0.06             | 0.354                  | 0.402                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.05             | 0.210                  | 0.229                  |
|          | 2       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.02             | 0.276                  | 0.301                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | 0.04             | 0.486                  | 0.528                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 132322 | 1745        | 24.14               | 24.50               | 1.086                  | -0.03            | 0.735                  | 0.799                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 132072 | 1720        | 23.88               | 24.50               | 1.153                  | 0.07             | 0.658                  | 0.759                  |
| 60       | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 132572 | 1770        | 23.95               | 24.50               | 1.135                  | -0.04            | 0.738                  | 0.838                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.05             | 0.383                  | 0.417                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 132322 | 1745        | 23.13               | 23.50               | 1.089                  | 0.01             | 0.622                  | 0.677                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 132572 | 1770        | 22.93               | 23.50               | 1.140                  | 0.06             | 0.652                  | 0.743                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Back          | 15       | Full            | 132322 | 1745        | 23                  | 23.50               | 1.122                  | 0.02             | 0.609                  | 0.683                  |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Back          | 15       | Full            | 132572 | 1770        | 22.82               | 23.50               | 1.169                  | 0.09             | 0.627                  | 0.733                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | -0.08            | 0.272                  | 0.302                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | 0.07             | 0.349                  | 0.387                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26140  | 1860        | 23.25               | 24.00               | 1.189                  | 0.05             | 0.302                  | 0.359                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26340  | 1880        | 23.3                | 24.00               | 1.175                  | 0.09             | 0.319                  | 0.375                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | -0.09            | 0.222                  | 0.237                  |
|          | 2       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | -0.09            | 0.277                  | 0.295                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | -0.06            | 0.478                  | 0.530                  |
| 61       | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26590  | 1905        | 23.55               | 24.00               | 1.109                  | 0.02             | 0.769                  | 0.853                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26140  | 1860        | 23.25               | 24.00               | 1.189                  | -0.05            | 0.634                  | 0.754                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 26340  | 1880        | 23.3                | 24.00               | 1.175                  | -0.09            | 0.677                  | 0.795                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | 0.08             | 0.382                  | 0.407                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 26590  | 1905        | 22.72               | 23.00               | 1.067                  | 0.06             | 0.607                  | 0.647                  |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 100     | 0         | Back          | 15       | Full            | 26590  | 1905        | 22.73               | 23.00               | 1.064                  | 0.02             | 0.603                  | 0.642                  |
|          | 2       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 19100  | 1900        | 23.87               | 24.50               | 1.156                  | 0.01             | 0.130                  | 0.150                  |
|          | 2       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 19100  | 1900        | 23.87               | 24.50               | 1.156                  | 0.05             | 0.183                  | 0.212                  |
|          | 2       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 18700  | 1860        | 23.45               | 24.50               | 1.274                  | 0.06             | 0.147                  | 0.187                  |
|          | 2       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 18900  | 1880        | 23.44               | 24.50               | 1.276                  | 0.03             | 0.162                  | 0.207                  |
|          | 2       | LTE Band 2  | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 19100  | 1900        | 22.78               | 23.50               | 1.180                  | 0.06             | 0.129                  | 0.152                  |
|          | 2       | LTE Band 2  | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 19100  | 1900        | 22.78               | 23.50               | 1.180                  | 0.05             | 0.182                  | 0.215                  |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 19100  | 1900        | 23.87               | 24.50               | 1.156                  | 0.01             | 0.530                  | 0.613                  |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 19100  | 1900        | 23.87               | 24.50               | 1.156                  | -0.04            | 0.831                  | 0.961                  |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 18700  | 1860        | 23.45               | 24.50               | 1.274                  | 0.09             | 0.705                  | 0.898                  |
| 62       | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 18900  | 1880        | 23.44               | 24.50               | 1.276                  | -0.07            | 0.768                  | 0.980                  |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 19100  | 1900        | 22.78               | 23.50               | 1.180                  | 0.05             | 0.411                  | 0.485                  |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 19100  | 1900        | 22.78               | 23.50               | 1.180                  | -0.03            | 0.676                  | 0.798                  |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 100     | 0         | Back          | 15       | Full            | 19100  | 1900        | 22.76               | 23.50               | 1.186                  | -0.01            | 0.672                  | 0.797                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 27710  | 2310        | 23.26               | 24.00               | 1.186                  | 0.04             | 0.197                  | 0.234                  |
| 63       | 3       | LTE Band 30 | 10M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 27710  | 2310        | 23.26               | 24.00               | 1.186                  | 0.09             | 0.397                  | 0.471                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Front         | 15       | Full            | 27710  | 2310        | 22.19               | 23.00               | 1.205                  | 0.03             | 0.156                  | 0.188                  |
|          | 3       | LTE Band 30 | 10M      | QPSK       | 25      | 0         | Back          | 15       | Full            | 27710  | 2310        | 22.19               | 23.00               | 1.205                  | 0.08             | 0.311                  | 0.375                  |
|          | 3       | LTE Band 7  | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 21350  | 2560        | 23.69               | 24.00               | 1.074                  | -0.05            | 0.173                  | 0.186                  |

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# FCC SAR Test Report

Report No. : FA871004-01

|    |   |            |     |      |    |   |       |    |      |                               |                               |       |       |       |       |       |       |
|----|---|------------|-----|------|----|---|-------|----|------|-------------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|
| 64 | 3 | LTE Band 7 | 20M | QPSK | 1  | 0 | Back  | 15 | Full | 21350                         | 2560                          | 23.69 | 24.00 | 1.074 | -0.09 | 0.426 | 0.458 |
|    | 3 | LTE Band 7 | 20M | QPSK | 1  | 0 | Back  | 15 | Full | 20850                         | 2510                          | 23.64 | 24.00 | 1.086 | -0.07 | 0.384 | 0.417 |
|    | 3 | LTE Band 7 | 20M | QPSK | 1  | 0 | Back  | 15 | Full | 21100                         | 2535                          | 23.65 | 24.00 | 1.084 | -0.1  | 0.405 | 0.439 |
|    | 3 | LTE Band 7 | 20M | QPSK | 1  | 0 | Back  | 15 | Full | 21350(PCC)<br>+<br>21152(SCC) | 2560(PCC)<br>+<br>2540.2(SCC) | 23.48 | 24.00 | 1.127 | 0.08  | 0.403 | 0.454 |
|    | 3 | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 15 | Full | 21350                         | 2560                          | 22.63 | 23.00 | 1.089 | 0.08  | 0.135 | 0.147 |
|    | 3 | LTE Band 7 | 20M | QPSK | 50 | 0 | Back  | 15 | Full | 21350                         | 2560                          | 22.63 | 23.00 | 1.089 | -0.03 | 0.339 | 0.369 |

## <TDD LTE SAR>

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.                           | Freq. (MHz)                   | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------------------------|-------------------------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Front         | 15       | Full            | 41055                         | 2636.5                        | 23.36               | 24.00               | 1.159                  | 62.9         | 1.006                     | 0.01             | 0.100                  | 0.117                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 41055                         | 2636.5                        | 23.36               | 24.00               | 1.159                  | 62.9         | 1.006                     | -0.09            | 0.259                  | 0.302                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 39750                         | 2506                          | 22.87               | 24.00               | 1.297                  | 62.9         | 1.006                     | -0.06            | 0.229                  | 0.299                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 40185                         | 2549.5                        | 22.97               | 24.00               | 1.268                  | 62.9         | 1.006                     | -0.1             | 0.242                  | 0.309                  |
| 65       | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 40620                         | 2593                          | 22.94               | 24.00               | 1.276                  | 62.9         | 1.006                     | 0.07             | 0.252                  | 0.324                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 41490                         | 2680                          | 23.29               | 24.00               | 1.178                  | 62.9         | 1.006                     | -0.18            | 0.222                  | 0.263                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 1       | 0         | Back          | 15       | Full            | 40620(PCC)<br>+<br>40422(SCC) | 2593(PCC)<br>+<br>2573.2(SCC) | 23.32               | 24.00               | 1.169                  | 62.9         | 1.006                     | -0.02            | 0.168                  | 0.198                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Front         | 15       | Full            | 41055                         | 2636.5                        | 22.52               | 23.00               | 1.117                  | 62.9         | 1.006                     | 0.03             | 0.076                  | 0.086                  |
|          | 3       | LTE Band 41 | 20M      | QPSK       | 50      | 0         | Back          | 15       | Full            | 41055                         | 2636.5                        | 22.52               | 23.00               | 1.117                  | 62.9         | 1.006                     | 0.05             | 0.196                  | 0.220                  |

**<WLAN 2.4GHz SAR>**

| Plot No. | Antenna | Band       | Mode          | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|---------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Front         | 15       | Full            | 6   | 2437        | 19.03               | 19.50               | 1.114                  | 99.31        | 1.007                     | 0.02             | 0.055                  | 0.062                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15       | Full            | 6   | 2437        | 19.03               | 19.50               | 1.114                  | 99.31        | 1.007                     | 0.05             | 0.064                  | 0.072                  |
|          | 1       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15       | Full            | 1   | 2412        | 18.06               | 19.50               | 1.393                  | 99.31        | 1.007                     | 0.06             | 0.082                  | 0.115                  |
| 66       | 1       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15       | Full            | 11  | 2462        | 18.84               | 19.50               | 1.164                  | 99.31        | 1.007                     | 0.09             | 0.100                  | 0.117                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Front         | 15       | Full            | 6   | 2437        | 16.24               | 16.50               | 1.062                  | 99.34        | 1.007                     | -0.07            | 0.051                  | 0.055                  |
| 67       | 2       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15       | Full            | 6   | 2437        | 16.24               | 16.50               | 1.062                  | 99.34        | 1.007                     | 0.06             | 0.111                  | 0.119                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15       | Full            | 1   | 2412        | 15.77               | 16.50               | 1.183                  | 99.34        | 1.007                     | 0.02             | 0.089                  | 0.106                  |
|          | 2       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15       | Full            | 11  | 2462        | 15.87               | 16.50               | 1.156                  | 99.34        | 1.007                     | -0.14            | 0.099                  | 0.115                  |

**<WLAN 5GHz SAR>**

| Plot No. | Antenna | Band       | Mode              | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|------------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Front         | 15       | Full            | 54  | 5270        | 20.51               | 21.00               | 1.119                  | 96.46        | 1.037                     | 0.08             | 0.041                  | 0.047                  |
| 68       | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 54  | 5270        | 20.51               | 21.00               | 1.119                  | 96.46        | 1.037                     | -0.02            | 0.405                  | 0.470                  |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 62  | 5310        | 20.48               | 21.00               | 1.127                  | 96.46        | 1.037                     | 0.09             | 0.398                  | 0.465                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Front         | 15       | Full            | 110 | 5550        | 20.60               | 21.00               | 1.097                  | 96.46        | 1.037                     | 0.03             | 0.091                  | 0.103                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 110 | 5550        | 20.60               | 21.00               | 1.097                  | 96.46        | 1.037                     | 0.06             | 0.630                  | 0.716                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 102 | 5510        | 20.57               | 21.00               | 1.104                  | 96.46        | 1.037                     | -0.06            | 0.653                  | 0.748                  |
| 69       | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 134 | 5670        | 20.43               | 21.00               | 1.140                  | 96.46        | 1.037                     | 0.05             | 0.713                  | 0.843                  |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 142 | 5710        | 20.56               | 21.00               | 1.107                  | 96.46        | 1.037                     | 0.03             | 0.722                  | 0.829                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Front         | 15       | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 0.04             | 0.055                  | 0.058                  |
| 70       | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 159 | 5795        | 17.96               | 18.00               | 1.009                  | 96.46        | 1.037                     | 0.08             | 0.359                  | 0.376                  |
|          | 1+2     | WLAN5.8GHz | 802.11n-HT40 MCS0 | Back          | 15       | Full            | 151 | 5755        | 17.67               | 18.00               | 1.079                  | 96.46        | 1.037                     | 0.02             | 0.303                  | 0.339                  |

**<Bluetooth SAR>**

| Plot No. | Antenna | Band      | Mode  | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-----------|-------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | 1       | Bluetooth | 1Mbps | Front         | 15       | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | 0.08             | 0.008                  | 0.009                  |
|          | 1       | Bluetooth | 1Mbps | Back          | 15       | Full            | 0   | 2402        | 12.73               | 13.10               | 1.088                  | 76.84        | 1.084                     | -0.05            | 0.009                  | 0.011                  |
|          | 1       | Bluetooth | 1Mbps | Back          | 15       | Full            | 39  | 2441        | 12.71               | 13.10               | 1.094                  | 76.84        | 1.084                     | 0.06             | 0.002                  | 0.002                  |
| 71       | 1       | Bluetooth | 1Mbps | Back          | 15       | Full            | 78  | 2480        | 12.18               | 13.10               | 1.236                  | 76.84        | 1.084                     | 0.08             | 0.013                  | 0.017                  |



# 14.4 Product specific 10g SAR

## <GSM SAR>

| Plot No. | Antenna | Band    | Mode             | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|---------|------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| 72       | 1       | GSM1900 | GPRS(3 Tx slots) | Bottom Side   | 0        | Full            | 810 | 1909.8      | 25.31               | 26.00               | 1.172                  | 0.06             | 2.150                   | 2.520                   |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Bottom Side   | 0        | Full            | 512 | 1850.2      | 25.18               | 26.00               | 1.208                  | -0.07            | 2.040                   | 2.464                   |
|          | 1       | GSM1900 | GPRS(3 Tx slots) | Bottom Side   | 0        | Full            | 661 | 1880        | 25.29               | 26.00               | 1.178                  | -0.04            | 2.070                   | 2.438                   |

## <WCDMA SAR>

| Plot No. | Antenna | Band          | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|---------------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Back          | 0        | Reduced Level 2 | 1513 | 1752.6      | 21.51               | 22.00               | 1.119                  | -0.02            | 2.260                   | 2.530                   |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Bottom Side   | 0        | Reduced Level 2 | 1513 | 1752.6      | 21.51               | 22.00               | 1.119                  | 0.05             | 2.900                   | 3.246                   |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Bottom Side   | 0        | Reduced Level 2 | 1312 | 1712.4      | 21.35               | 22.00               | 1.161                  | 0.06             | 2.950                   | 3.426                   |
| 73       | 1       | WCDMA Band IV | RMC 12.2Kbps | Bottom Side   | 0        | Reduced Level 2 | 1413 | 1732.6      | 21.4                | 22.00               | 1.148                  | 0.07             | 3.030                   | 3.479                   |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Back          | 0        | Reduced Level 2 | 1312 | 1712.4      | 21.35               | 22.00               | 1.161                  | 0.05             | 2.130                   | 2.474                   |
|          | 1       | WCDMA Band IV | RMC 12.2Kbps | Back          | 0        | Reduced Level 2 | 1413 | 1732.6      | 21.4                | 22.00               | 1.148                  | 0.08             | 2.230                   | 2.560                   |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Back          | 0        | Reduced Level 2 | 9262 | 1852.4      | 21.56               | 22.00               | 1.107                  | 0.06             | 2.140                   | 2.368                   |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Bottom Side   | 0        | Reduced Level 2 | 9262 | 1852.4      | 21.56               | 22.00               | 1.107                  | 0.03             | 2.670                   | 2.955                   |
| 74       | 1       | WCDMA Band II | RMC 12.2Kbps | Bottom Side   | 0        | Reduced Level 2 | 9400 | 1880        | 21.49               | 22.00               | 1.125                  | 0.02             | 2.720                   | 3.059                   |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Bottom Side   | 0        | Reduced Level 2 | 9538 | 1907.6      | 21.53               | 22.00               | 1.114                  | 0.05             | 2.730                   | 3.042                   |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Back          | 0        | Reduced Level 2 | 9400 | 1880        | 21.49               | 22.00               | 1.125                  | 0.1              | 2.150                   | 2.418                   |
|          | 1       | WCDMA Band II | RMC 12.2Kbps | Back          | 0        | Reduced Level 2 | 9538 | 1907.6      | 21.53               | 22.00               | 1.114                  | 0.02             | 2.340                   | 2.607                   |

## <CDMA2000 SAR>

| Plot No. | Antenna | Band         | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|--------------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Front         | 0        | Reduced Level 2 | 1175 | 1908.75     | 22.16               | 22.50               | 1.081                  | 0.01             | 1.880                   | 2.033                   |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Back          | 0        | Reduced Level 2 | 1175 | 1908.75     | 22.16               | 22.50               | 1.081                  | 0.06             | 2.570                   | 2.779                   |
| 75       | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side   | 0        | Reduced Level 2 | 1175 | 1908.75     | 22.16               | 22.50               | 1.081                  | 0.06             | 3.250                   | 3.515                   |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side   | 0        | Reduced Level 2 | 25   | 1851.25     | 22.15               | 22.50               | 1.084                  | 0.11             | 3.010                   | 3.263                   |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side   | 0        | Reduced Level 2 | 600  | 1880        | 22.13               | 22.50               | 1.089                  | 0.04             | 2.940                   | 3.201                   |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Front         | 0        | Reduced Level 2 | 25   | 1851.25     | 22.15               | 22.50               | 1.084                  | 0.05             | 1.840                   | 1.994                   |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Front         | 0        | Reduced Level 2 | 600  | 1880        | 22.13               | 22.50               | 1.089                  | 0.06             | 1.870                   | 2.036                   |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Back          | 0        | Reduced Level 2 | 25   | 1851.25     | 22.15               | 22.50               | 1.084                  | 0.02             | 2.470                   | 2.677                   |
|          | 1       | CDMA2000 BC1 | RTAP 153.6Kbps | Back          | 0        | Reduced Level 2 | 600  | 1880        | 22.13               | 22.50               | 1.089                  | 0.03             | 2.590                   | 2.820                   |



**<FDD LTE SAR>**

| Plot No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 132322 | 1745        | 21.64               | 22.10               | 1.112                  | 0.06             | 2.260                   | 2.513                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 132322 | 1745        | 21.64               | 22.10               | 1.112                  | 0.06             | 3.040                   | 3.380                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 132072 | 1720        | 21.57               | 22.10               | 1.130                  | 0.02             | 2.860                   | 3.231                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 132572 | 1770        | 21.51               | 22.10               | 1.146                  | 0.08             | 3.090                   | 3.540                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 132072 | 1720        | 21.57               | 22.10               | 1.130                  | 0.04             | 2.250                   | 2.542                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 132572 | 1770        | 21.51               | 22.10               | 1.146                  | 0.03             | 2.130                   | 2.440                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 0        | Reduced Level 2 | 132322 | 1745        | 21.53               | 22.10               | 1.140                  | 0.07             | 2.300                   | 2.623                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 132322 | 1745        | 21.53               | 22.10               | 1.140                  | 0.03             | 3.120                   | 3.558                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 132072 | 1720        | 21.5                | 22.10               | 1.148                  | 0.02             | 3.050                   | 3.502                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 132572 | 1770        | 21.48               | 22.10               | 1.153                  | 0.04             | 3.090                   | 3.564                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 0        | Reduced Level 2 | 132072 | 1720        | 21.5                | 22.10               | 1.148                  | 0.04             | 2.080                   | 2.388                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | Back          | 0        | Reduced Level 2 | 132572 | 1770        | 21.48               | 22.10               | 1.153                  | 0.05             | 2.090                   | 2.411                   |
|          | 1       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Back          | 0        | Reduced Level 2 | 132322 | 1745        | 21.35               | 22.10               | 1.189                  | 0.02             | 1.990                   | 2.365                   |
| 76       | 1       | LTE Band 66 | 20M      | QPSK       | 100     | 0         | Bottom Side   | 0        | Reduced Level 2 | 132322 | 1745        | 21.35               | 22.10               | 1.189                  | 0.09             | 3.010                   | 3.577                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 26590  | 1905        | 21.86               | 22.40               | 1.132                  | 0.09             | 2.500                   | 2.831                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 26590  | 1905        | 21.86               | 22.40               | 1.132                  | 0.07             | 3.110                   | 3.522                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 26140  | 1860        | 21.74               | 22.40               | 1.164                  | 0.08             | 2.810                   | 3.271                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 26340  | 1880        | 21.8                | 22.40               | 1.148                  | 0.07             | 2.800                   | 3.215                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 26140  | 1860        | 21.74               | 22.40               | 1.164                  | 0.02             | 2.050                   | 2.386                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 26340  | 1880        | 21.8                | 22.40               | 1.148                  | -0.05            | 2.240                   | 2.572                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Back          | 0        | Reduced Level 2 | 26590  | 1905        | 21.78               | 22.40               | 1.153                  | 0.08             | 2.480                   | 2.861                   |
| 77       | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 26590  | 1905        | 21.78               | 22.40               | 1.153                  | 0.07             | 3.110                   | 3.587                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 26140  | 1860        | 21.77               | 22.40               | 1.156                  | 0.05             | 2.890                   | 3.341                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 26340  | 1880        | 21.75               | 22.40               | 1.161                  | 0.04             | 2.910                   | 3.380                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Back          | 0        | Reduced Level 2 | 26140  | 1860        | 21.77               | 22.40               | 1.156                  | 0.06             | 2.110                   | 2.439                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 50      | 0         | Back          | 0        | Reduced Level 2 | 26340  | 1880        | 21.75               | 22.40               | 1.161                  | 0.07             | 2.320                   | 2.695                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 100     | 0         | Back          | 0        | Reduced Level 2 | 26590  | 1905        | 21.81               | 22.40               | 1.146                  | 0.04             | 2.490                   | 2.852                   |
|          | 1       | LTE Band 25 | 20M      | QPSK       | 100     | 0         | Bottom Side   | 0        | Reduced Level 2 | 26590  | 1905        | 21.81               | 22.40               | 1.146                  | 0.09             | 3.110                   | 3.563                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 19100  | 1900        | 21.89               | 22.00               | 1.026                  | 0.04             | 2.810                   | 2.882                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 19100  | 1900        | 21.89               | 22.00               | 1.026                  | 0.07             | 3.470                   | 3.559                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 18700  | 1860        | 21.88               | 22.00               | 1.028                  | 0.08             | 3.320                   | 3.413                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0        | Reduced Level 2 | 18900  | 1880        | 21.86               | 22.00               | 1.033                  | 0.07             | 3.260                   | 3.367                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 18700  | 1860        | 21.88               | 22.00               | 1.028                  | 0.03             | 2.510                   | 2.580                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 1       | 0         | Back          | 0        | Reduced Level 2 | 18900  | 1880        | 21.86               | 22.00               | 1.033                  | 0.01             | 2.580                   | 2.665                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 19100  | 1900        | 21.84               | 22.00               | 1.038                  | 0.09             | 3.440                   | 3.569                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 18700  | 1860        | 21.82               | 22.00               | 1.042                  | 0.01             | 3.230                   | 3.367                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0        | Reduced Level 2 | 18900  | 1880        | 21.83               | 22.00               | 1.040                  | 0.05             | 3.430                   | 3.567                   |
|          | 1       | LTE Band 2  | 20M      | QPSK       | 100     | 0         | Back          | 0        | Reduced Level 2 | 19100  | 1900        | 21.83               | 22.00               | 1.040                  | 0.04             | 2.810                   | 2.922                   |
| 78       | 1       | LTE Band 2  | 20M      | QPSK       | 100     | 0         | Bottom Side   | 0        | Reduced Level 2 | 19100  | 1900        | 21.83               | 22.00               | 1.040                  | 0.03             | 3.480                   | 3.619                   |



**<WLAN 5GHz SAR>**

| Plot No. | Antenna | Band       | Mode              | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|------------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Front         | 0        | Full            | 54  | 5270        | 20.51               | 21.00               | 1.119                  | 96.46        | 1.037                     | 0.01             | 0.755                   | 0.876                   |
| 79       | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 54  | 5270        | 20.51               | 21.00               | 1.119                  | 96.46        | 1.037                     | 0.04             | 1.650                   | 1.915                   |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Side    | 0        | Full            | 54  | 5270        | 20.51               | 21.00               | 1.119                  | 96.46        | 1.037                     | 0.09             | 0.699                   | 0.811                   |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Top Side      | 0        | Full            | 54  | 5270        | 20.51               | 21.00               | 1.119                  | 96.46        | 1.037                     | 0.11             | 0.279                   | 0.324                   |
|          | 1+2     | WLAN5.3GHz | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 62  | 5310        | 20.48               | 21.00               | 1.127                  | 96.46        | 1.037                     | 0.06             | 1.440                   | 1.683                   |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Front         | 0        | Full            | 110 | 5550        | 20.60               | 21.00               | 1.097                  | 96.46        | 1.037                     | -0.02            | 1.000                   | 1.137                   |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 110 | 5550        | 20.60               | 21.00               | 1.097                  | 96.46        | 1.037                     | 0.06             | 1.940                   | 2.206                   |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Right Side    | 0        | Full            | 110 | 5550        | 20.60               | 21.00               | 1.097                  | 96.46        | 1.037                     | 0.04             | 0.544                   | 0.619                   |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Top Side      | 0        | Full            | 110 | 5550        | 20.60               | 21.00               | 1.097                  | 96.46        | 1.037                     | 0.09             | 0.395                   | 0.449                   |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 102 | 5510        | 20.57               | 21.00               | 1.104                  | 96.46        | 1.037                     | 0.11             | 2.170                   | 2.485                   |
| 80       | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 134 | 5670        | 20.43               | 21.00               | 1.140                  | 96.46        | 1.037                     | 0.18             | 2.670                   | 3.157                   |
|          | 1+2     | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 142 | 5710        | 20.56               | 21.00               | 1.107                  | 96.46        | 1.037                     | 0.15             | 2.750                   | 3.156                   |

**14.5 Repeated SAR Measurement****<1g SAR>**

| No. | Antenna | Band          | BW (MHz) | Modulation | RB Size | RB Offset | Mode              | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|-----|---------|---------------|----------|------------|---------|-----------|-------------------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st | 2       | WCDMA Band IV | -        | -          | -       | -         | RMC 12.2Kbps      | Right Cheek   | 0        | Reduced Level 1 | 1513   | 1752.6      | 21.08               | 21.50               | 1.102                  | -            | -                         | 0.02             | 1.170                  | 1     | 1.289                  |
| 2nd | 2       | WCDMA Band IV | -        | -          | -       | -         | RMC 12.2Kbps      | Right Cheek   | 0        | Reduced Level 1 | 1513   | 1752.6      | 21.08               | 21.50               | 1.102                  | -            | -                         | 0.08             | 1.160                  | 1.009 | 1.278                  |
| 1st | 2       | CDMA2000 BC0  | -        | -          | -       | -         | RC3+SO55          | Right Cheek   | 0        | Reduced Level 1 | 777    | 848.31      | 22.43               | 23.00               | 1.140                  | -            | -                         | 0.01             | 1.120                  | 1     | 1.277                  |
| 2nd | 2       | CDMA2000 BC0  | -        | -          | -       | -         | RC3+SO55          | Right Cheek   | 0        | Reduced Level 1 | 777    | 848.31      | 22.43               | 23.00               | 1.140                  | -            | -                         | 0.05             | 1.100                  | 1.018 | 1.254                  |
| 1st | 2       | LTE Band 71   | 20M      | QPSK       | 1       | 0         | -                 | Right Tilted  | 0        | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | -            | -                         | 0.04             | 1.170                  | 1     | 1.257                  |
| 2nd | 2       | LTE Band 71   | 20M      | QPSK       | 1       | 0         | -                 | Right Tilted  | 0        | Full            | 133322 | 683         | 24.49               | 24.80               | 1.074                  | -            | -                         | -0.05            | 1.140                  | 1.026 | 1.224                  |
| 1st | 2       | LTE Band 30   | 10M      | QPSK       | 1       | 0         | -                 | Right Cheek   | 0        | Reduced Level 1 | 27710  | 2310        | 19.38               | 19.70               | 1.076                  | -            | -                         | 0.07             | 1.190                  | 1     | 1.281                  |
| 2nd | 2       | LTE Band 30   | 10M      | QPSK       | 1       | 0         | -                 | Right Cheek   | 0        | Reduced Level 1 | 27710  | 2310        | 19.38               | 19.70               | 1.076                  | -            | -                         | 0.02             | 1.160                  | 1.026 | 1.249                  |
| 1st | 2       | LTE Band 41   | 20M      | QPSK       | 1       | 0         | -                 | Right Cheek   | 0        | Reduced Level 1 | 41490  | 2680        | 21.72               | 22.00               | 1.067                  | 62.9         | 1.006                     | -0.07            | 1.190                  | 1     | 1.277                  |
| 2nd | 2       | LTE Band 41   | 20M      | QPSK       | 1       | 0         | -                 | Right Cheek   | 0        | Reduced Level 1 | 41490  | 2680        | 21.72               | 22.00               | 1.067                  | 62.9         | 1.006                     | 0.06             | 1.170                  | 1.017 | 1.255                  |
| 1st | 1       | LTE Band 2    | 20M      | QPSK       | 1       | 0         | -                 | Bottom Side   | 10       | Reduced Level 1 | 19100  | 1900        | 20.69               | 21.00               | 1.074                  | -            | -                         | 0.06             | 1.190                  | 1     | 1.278                  |
| 2nd | 1       | LTE Band 2    | 20M      | QPSK       | 1       | 0         | -                 | Bottom Side   | 10       | Reduced Level 1 | 19100  | 1900        | 20.69               | 21.00               | 1.074                  | -            | -                         | -0.02            | 1.170                  | 1.017 | 1.257                  |
| 1st | 1       | WLAN 2.4GHz   | -        | -          | -       | -         | 802.11b 1Mbps     | Left Cheek    | 0        | Reduced Level 1 | 6      | 2437        | 16.01               | 16.50               | 1.119                  | 99.31        | 1.007                     | 0.09             | 0.872                  | 1     | 0.983                  |
| 2nd | 1       | WLAN 2.4GHz   | -        | -          | -       | -         | 802.11b 1Mbps     | Left Cheek    | 0        | Reduced Level 1 | 6      | 2437        | 16.01               | 16.50               | 1.119                  | 99.31        | 1.007                     | 0.06             | 0.865                  | 1.008 | 0.975                  |
| 1st | 1+2     | WLAN5GHz      | -        | -          | -       | -         | 802.11n-HT40 MCS0 | Left Tilted   | 0        | Reduced Level 1 | 142    | 5710        | 17.53               | 18.00               | 1.114                  | 96.46        | 1.037                     | -0.19            | 0.923                  | 1     | 1.067                  |
| 2nd | 1+2     | WLAN5GHz      | -        | -          | -       | -         | 802.11n-HT40 MCS0 | Left Tilted   | 0        | Reduced Level 1 | 142    | 5710        | 17.53               | 18.00               | 1.114                  | 96.46        | 1.037                     | -0.12            | 0.916                  | 1.008 | 1.058                  |
| 1st | 1+2     | WLAN5GHz      | -        | -          | -       | -         | 802.11n-HT40 MCS0 | Left Cheek    | 0        | Full            | 151    | 5755        | 17.76               | 18.00               | 1.057                  | 96.46        | 1.037                     | -0.1             | 0.934                  | 1     | 1.024                  |
| 2nd | 1+2     | WLAN5GHz      | -        | -          | -       | -         | 802.11n-HT40 MCS0 | Left Cheek    | 0        | Full            | 151    | 5755        | 17.76               | 18.00               | 1.057                  | 96.46        | 1.037                     | -0.13            | 0.931                  | 1.003 | 1.020                  |

**<10g SAR>**

| No. | Antenna | Band        | BW (MHz) | Modulation | RB Size | RB Offset | Mode              | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|-----|---------|-------------|----------|------------|---------|-----------|-------------------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | -                 | Bottom Side   | 0        | Reduced Level 2 | 132322 | 1745        | 21.53               | 22.10               | 1.140                  | -            | -                         | 0.03             | 3.120                   | 1     | 3.558                   |
| 2nd | 1       | LTE Band 66 | 20M      | QPSK       | 50      | 0         | -                 | Bottom Side   | 0        | Reduced Level 2 | 132322 | 1745        | 21.53               | 22.10               | 1.140                  | -            | -                         | 0.03             | 3.050                   | 1.023 | 3.478                   |
| 1st | 1       | LTE Band 2  | 20M      | QPSK       | 100     | 0         | -                 | Bottom Side   | 0        | Reduced Level 2 | 19100  | 1900        | 21.83               | 22.00               | 1.040                  | -            | -                         | 0.03             | 3.480                   | 1     | 3.619                   |
| 2nd | 1       | LTE Band 2  | 20M      | QPSK       | 100     | 0         | -                 | Bottom Side   | 0        | Reduced Level 2 | 19100  | 1900        | 21.83               | 22.00               | 1.040                  | -            | -                         | 0.06             | 3.430                   | 1.015 | 3.567                   |
| 1st | 1+2     | WLAN5GHz    | -        | -          | -       | -         | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 142    | 5710        | 20.56               | 21.00               | 1.107                  | 96.46        | 1.037                     | 0.15             | 2.750                   | 1     | 3.156                   |
| 2nd | 1+2     | WLAN5GHz    | -        | -          | -       | -         | 802.11n-HT40 MCS0 | Back          | 0        | Full            | 142    | 5710        | 20.56               | 21.00               | 1.107                  | 96.46        | 1.037                     | 0.15             | 2.670                   | 1.030 | 3.064                   |

**General Note:**

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45$ W/kg, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

## 15. Simultaneous Transmission Analysis

| No. | Simultaneous Transmission Configurations      | Portable Handset |           |         |                          | Note      |
|-----|-----------------------------------------------|------------------|-----------|---------|--------------------------|-----------|
|     |                                               | Head             | Body-worn | Hotspot | Product specific 10g SAR |           |
| 1.  | GSM Voice + WLAN2.4GHz (SISO)                 | Yes              | Yes       |         |                          |           |
| 2.  | GPRS/EDGE + WLAN2.4GHz (SISO)                 | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 3.  | WCDMA + WLAN2.4GHz (SISO)                     | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 4.  | CDMA + WLAN2.4GHz (SISO)                      | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 5.  | LTE + WLAN2.4GHz (SISO)                       | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 6.  | GSM Voice + WLAN5.3/5.5GHz (MIMO)             | Yes              | Yes       |         |                          |           |
| 7.  | GPRS/EDGE + WLAN5.3/5.5GHz (MIMO)             | Yes              | Yes       |         | Yes                      | WWAN VoIP |
| 8.  | WCDMA + WLAN5.3/5.5GHz (MIMO)                 | Yes              | Yes       |         | Yes                      | WWAN VoIP |
| 9.  | CDMA + WLAN5.3/5.5GHz (MIMO)                  | Yes              | Yes       |         | Yes                      | WWAN VoIP |
| 10. | LTE + WLAN5.3/5.5GHz (MIMO)                   | Yes              | Yes       |         | Yes                      | WWAN VoIP |
| 11. | GSM Voice + WLAN5.2/5.8GHz (MIMO)             | Yes              | Yes       |         |                          |           |
| 12. | GPRS/EDGE + WLAN5.2/5.8GHz (MIMO)             | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 13. | WCDMA + WLAN5.2/5.8GHz (MIMO)                 | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 14. | CDMA + WLAN5.2/5.8GHz (MIMO)                  | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 15. | LTE + WLAN5.2/5.8GHz (MIMO)                   | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 16. | GSM Voice + Bluetooth                         | Yes              | Yes       |         |                          |           |
| 17. | GPRS/EDGE + Bluetooth                         | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 18. | WCDMA + Bluetooth                             | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 19. | CDMA + Bluetooth                              | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 20. | LTE + Bluetooth                               | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 21. | GSM Voice + WLAN5.2/5.8GHz (MIMO) + Bluetooth | Yes              | Yes       |         |                          |           |
| 22. | GPRS/EDGE + WLAN5.2/5.8GHz (MIMO) + Bluetooth | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 23. | WCDMA + WLAN5.2/5.8GHz (MIMO) + Bluetooth     | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 24. | CDMA + WLAN5.2/5.8GHz (MIMO) + Bluetooth      | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 25. | LTE + WLAN5.2/5.8GHz (MIMO) + Bluetooth       | Yes              | Yes       | Yes     | Yes                      | WWAN VoIP |
| 26. | 2.4GHz WLAN Ant.1+ 2.4GHz WLAN Ant.2          | Yes              | Yes       | Yes     | Yes                      |           |

**General Note:**

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- EUT will choose each GSM, CDMA, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- WLAN 2.4GHz Antenna 1 and Bluetooth share the same antenna so can't transmit simultaneously.
- According to the character of EUT, WLAN 2.4GHz Antenna 2 and Bluetooth can't transmit simultaneously.
- This device 2.4GHz WLAN/ 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
- EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
- The worst case 5 GHz WLAN reported SAR for each configuration was used for SAR summation, regardless of whether the WLAN channel has WiFi Direct and Hotspot capability. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with 5 GHz WLAN.
- According to the character of EUT, WLAN 2.4G Ant.2 and WWAN antenna 1/2/3 and can't transmit simultaneously.
- WLAN 2.4GHz can transmit in SISO antenna mode only when transmit simultaneously with WWAN.
- For 2.4GHz WLAN each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
- For 5GHz WLAN, SAR testing was performed on MIMO mode since it can't transmit in SISO mode, so only evaluate MIMO mode SAR.
- This device has three WWAN transmitter antennas. WWAN antenna 1 is located at the bottom edge of the device, WWAN antenna 2 is located at the left side of top edge of the device, WWAN antenna 3 is located under WWAN antenna 2, and which can refer to antenna location chapter. The device is capable of switching between the WWAN antenna 2 and WWAN antenna 3 based on signal strength. All of them couldn't transmit simultaneously.
- For hotspot/body-worn simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in the follow section would not additional to evaluate 2Tx combination of simultaneously transmission.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.





- ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where  $(x1, y1, z1)$  and  $(x2, y2, z2)$  are the coordinates of the extrapolated peak SAR locations in the zoom scan.
- iii) If  $SPLSR \leq 0.04$  for 1g SAR,  $SPLSR \leq 0.10$  for 10g SAR simultaneously transmission SAR measurement is not necessary.
- iv) The SPLSR calculated results please refer to section 15.5.

# **15.1 Head Exposure Conditions**

## **<WWAN Antenna 1>**

| WWAN Band |         | Exposure Position | 1             | 2                  | 3                  | 4                  | 5                | 1+2 Summed 1g SAR | 1+4+5 Summed 1g SAR | 2+3 Summed 1g SAR (W/kg) |
|-----------|---------|-------------------|---------------|--------------------|--------------------|--------------------|------------------|-------------------|---------------------|--------------------------|
|           |         |                   | WWAN Ant. 1   | 2.4GHz WLAN Ant. 1 | 2.4GHz WLAN Ant. 2 | 5GHz WLAN Ant. 1+2 | Bluetooth Ant. 1 |                   |                     |                          |
|           |         |                   | 1g SAR (W/kg) | 1g SAR (W/kg)      | 1g SAR (W/kg)      | 1g SAR (W/kg)      | 1g SAR (W/kg)    |                   |                     |                          |
| GSM       | GSM850  | Right Cheek       | 0.129         | 0.296              | 0.695              | 0.344              | 0.094            | 0.43              | 0.57                | 0.99                     |
|           |         | Right Tilted      | 0.076         | 0.329              | 0.222              | 0.325              | 0.073            | 0.41              | 0.47                | 0.55                     |
|           |         | Left Cheek        | 0.198         | 0.983              | 0.167              | 0.724              | 0.390            | 1.18              | 1.31                | 1.15                     |
|           |         | Left Tilted       | 0.076         | 0.912              | 0.083              | 0.890              | 0.162            | 0.99              | 1.13                | 1.00                     |
|           | GSM1900 | Right Cheek       | 0.063         | 0.296              | 0.695              | 0.344              | 0.094            | 0.36              | 0.50                | 0.99                     |
|           |         | Right Tilted      | 0.014         | 0.329              | 0.222              | 0.325              | 0.073            | 0.34              | 0.41                | 0.55                     |
|           |         | Left Cheek        | 0.006         | 0.983              | 0.167              | 0.724              | 0.390            | 0.99              | 1.12                | 1.15                     |
|           |         | Left Tilted       | 0.002         | 0.912              | 0.083              | 0.890              | 0.162            | 0.91              | 1.05                | 1.00                     |
| WCDMA     | Band V  | Right Cheek       | 0.113         | 0.296              | 0.695              | 0.344              | 0.094            | 0.41              | 0.55                | 0.99                     |
|           |         | Right Tilted      | 0.058         | 0.329              | 0.222              | 0.325              | 0.073            | 0.39              | 0.46                | 0.55                     |
|           |         | Left Cheek        | 0.177         | 0.983              | 0.167              | 0.724              | 0.390            | 1.16              | 1.29                | 1.15                     |
|           |         | Left Tilted       | 0.079         | 0.912              | 0.083              | 0.890              | 0.162            | 0.99              | 1.13                | 1.00                     |
|           | Band IV | Right Cheek       | 0.194         | 0.296              | 0.695              | 0.344              | 0.094            | 0.49              | 0.63                | 0.99                     |
|           |         | Right Tilted      | 0.095         | 0.329              | 0.222              | 0.325              | 0.073            | 0.42              | 0.49                | 0.55                     |
|           |         | Left Cheek        | 0.103         | 0.983              | 0.167              | 0.724              | 0.390            | 1.09              | 1.22                | 1.15                     |
|           |         | Left Tilted       | 0.094         | 0.912              | 0.083              | 0.890              | 0.162            | 1.01              | 1.15                | 1.00                     |
|           | Band II | Right Cheek       | 0.163         | 0.296              | 0.695              | 0.344              | 0.094            | 0.46              | 0.60                | 0.99                     |
|           |         | Right Tilted      | 0.100         | 0.329              | 0.222              | 0.325              | 0.073            | 0.43              | 0.50                | 0.55                     |
|           |         | Left Cheek        | 0.090         | 0.983              | 0.167              | 0.724              | 0.390            | 1.07              | 1.20                | 1.15                     |
|           |         | Left Tilted       | 0.108         | 0.912              | 0.083              | 0.890              | 0.162            | 1.02              | 1.16                | 1.00                     |
| CDMA2000  | BC0     | Right Cheek       | 0.122         | 0.296              | 0.695              | 0.344              | 0.094            | 0.42              | 0.56                | 0.99                     |
|           |         | Right Tilted      | 0.100         | 0.329              | 0.222              | 0.325              | 0.073            | 0.43              | 0.50                | 0.55                     |
|           |         | Left Cheek        | 0.223         | 0.983              | 0.167              | 0.724              | 0.390            | 1.21              | 1.34                | 1.15                     |
|           |         | Left Tilted       | 0.105         | 0.912              | 0.083              | 0.890              | 0.162            | 1.02              | 1.16                | 1.00                     |
|           | BC1     | Right Cheek       | 0.160         | 0.296              | 0.695              | 0.344              | 0.094            | 0.46              | 0.60                | 0.99                     |
|           |         | Right Tilted      | 0.093         | 0.329              | 0.222              | 0.325              | 0.073            | 0.42              | 0.49                | 0.55                     |
|           |         | Left Cheek        | 0.104         | 0.983              | 0.167              | 0.724              | 0.390            | 1.09              | 1.22                | 1.15                     |
|           |         | Left Tilted       | 0.119         | 0.912              | 0.083              | 0.890              | 0.162            | 1.03              | 1.17                | 1.00                     |

| WWAN Band |         | Exposure Position | 1                   | 2                       | 3                       | 4                       | 5                   | 1+2<br>Summed<br>1g SAR | 1+4+5<br>Summed<br>1g SAR | 2+3<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|-------------------------|-------------------------|-------------------------|---------------------|-------------------------|---------------------------|-------------------------|
|           |         |                   | WWAN<br>Ant.1       | 2.4GHz<br>WLAN<br>Ant.1 | 2.4GHz<br>WLAN<br>Ant.2 | 5GHz<br>WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                         |                           |                         |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg) |                         |                           |                         |
| LTE       | Band 71 | Right Cheek       | 0.059               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.36                    | 0.50                      | 0.99                    |
|           |         | Right Tilted      | 0.011               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.34                    | 0.41                      | 0.55                    |
|           |         | Left Cheek        | 0.089               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.07                    | 1.20                      | 1.15                    |
|           |         | Left Tilted       | 0.033               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 0.95                    | 1.09                      | 1.00                    |
|           | Band 12 | Right Cheek       | 0.088               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.38                    | 0.53                      | 0.99                    |
|           |         | Right Tilted      | 0.050               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.38                    | 0.45                      | 0.55                    |
|           |         | Left Cheek        | 0.112               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.10                    | 1.23                      | 1.15                    |
|           |         | Left Tilted       | 0.052               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 0.96                    | 1.10                      | 1.00                    |
|           | Band 13 | Right Cheek       | 0.092               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.39                    | 0.53                      | 0.99                    |
|           |         | Right Tilted      | 0.049               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.38                    | 0.45                      | 0.55                    |
|           |         | Left Cheek        | 0.137               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.12                    | 1.25                      | 1.15                    |
|           |         | Left Tilted       | 0.076               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 0.99                    | 1.13                      | 1.00                    |
|           | Band 5  | Right Cheek       | 0.117               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.41                    | 0.56                      | 0.99                    |
|           |         | Right Tilted      | 0.076               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.41                    | 0.47                      | 0.55                    |
|           |         | Left Cheek        | 0.159               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.14                    | 1.27                      | 1.15                    |
|           |         | Left Tilted       | 0.069               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 0.98                    | 1.12                      | 1.00                    |
|           | Band 26 | Right Cheek       | 0.100               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.40                    | 0.54                      | 0.99                    |
|           |         | Right Tilted      | 0.087               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.42                    | 0.49                      | 0.55                    |
|           |         | Left Cheek        | 0.162               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.15                    | 1.28                      | 1.15                    |
|           |         | Left Tilted       | 0.092               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 1.00                    | 1.14                      | 1.00                    |
|           | Band 66 | Right Cheek       | 0.141               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.44                    | 0.58                      | 0.99                    |
|           |         | Right Tilted      | 0.097               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.43                    | 0.50                      | 0.55                    |
|           |         | Left Cheek        | 0.098               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.08                    | 1.21                      | 1.15                    |
|           |         | Left Tilted       | 0.074               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 0.99                    | 1.13                      | 1.00                    |
|           | Band 25 | Right Cheek       | 0.116               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.41                    | 0.55                      | 0.99                    |
|           |         | Right Tilted      | 0.071               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.40                    | 0.47                      | 0.55                    |
|           |         | Left Cheek        | 0.077               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.06                    | 1.19                      | 1.15                    |
|           |         | Left Tilted       | 0.092               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 1.00                    | 1.14                      | 1.00                    |
|           | Band 2  | Right Cheek       | 0.157               | 0.296                   | 0.695                   | 0.344                   | 0.094               | 0.45                    | 0.60                      | 0.99                    |
|           |         | Right Tilted      | 0.092               | 0.329                   | 0.222                   | 0.325                   | 0.073               | 0.42                    | 0.49                      | 0.55                    |
|           |         | Left Cheek        | 0.105               | 0.983                   | 0.167                   | 0.724                   | 0.390               | 1.09                    | 1.22                      | 1.15                    |
|           |         | Left Tilted       | 0.103               | 0.912                   | 0.083                   | 0.890                   | 0.162               | 1.02                    | 1.16                      | 1.00                    |

**<WWAN Antenna 2>**

| WWAN Band |         | Exposure Position | 1                   | 2                    | 1+2<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|----------------------|-------------------------|
|           |         |                   | WWAN<br>Ant.2       | 2.4GHz WLAN<br>Ant.1 |                         |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)  |                         |
| GSM       | GSM850  | Right Cheek       | 0.905               | 0.296                | 1.20                    |
|           |         | Right Tilted      | 0.852               | 0.329                | 1.18                    |
|           |         | Left Cheek        | 0.554               | 0.983                | 1.54                    |
|           |         | Left Tilted       | 0.506               | 0.912                | 1.42                    |
|           | GSM1900 | Right Cheek       | 0.795               | 0.296                | 1.09                    |
|           |         | Right Tilted      | 0.966               | 0.329                | 1.30                    |
|           |         | Left Cheek        | 0.271               | 0.983                | 1.25                    |
|           |         | Left Tilted       | 0.453               | 0.912                | 1.37                    |
| WCDMA     | Band V  | Right Cheek       | 0.824               | 0.296                | 1.12                    |
|           |         | Right Tilted      | 0.742               | 0.329                | 1.07                    |
|           |         | Left Cheek        | 0.450               | 0.983                | 1.43                    |
|           |         | Left Tilted       | 0.494               | 0.912                | 1.41                    |
|           | Band IV | Right Cheek       | 0.929               | 0.296                | 1.23                    |
|           |         | Right Tilted      | 0.741               | 0.329                | 1.07                    |
|           |         | Left Cheek        | 0.347               | 0.983                | 1.33                    |
|           |         | Left Tilted       | 0.301               | 0.912                | 1.21                    |
|           | Band II | Right Cheek       | 0.874               | 0.296                | 1.17                    |
|           |         | Right Tilted      | 0.553               | 0.329                | 0.88                    |
|           |         | Left Cheek        | 0.222               | 0.983                | 1.21                    |
|           |         | Left Tilted       | 0.211               | 0.912                | 1.12                    |
| CDMA2000  | BC0     | Right Cheek       | 0.826               | 0.296                | 1.12                    |
|           |         | Right Tilted      | 0.625               | 0.329                | 0.95                    |
|           |         | Left Cheek        | 0.439               | 0.983                | 1.42                    |
|           |         | Left Tilted       | 0.391               | 0.912                | 1.30                    |
|           | BC1     | Right Cheek       | 0.705               | 0.296                | 1.00                    |
|           |         | Right Tilted      | 0.832               | 0.329                | 1.16                    |
|           |         | Left Cheek        | 0.269               | 0.983                | 1.25                    |
|           |         | Left Tilted       | 0.326               | 0.912                | 1.24                    |

| WWAN Band |         | Exposure Position | 1                   | 2                    | 1+2<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|----------------------|-------------------------|
|           |         |                   | WWAN<br>Ant.2       | 2.4GHz WLAN<br>Ant.1 |                         |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)  |                         |
| LTE       | Band 71 | Right Cheek       | 0.824               | 0.296                | 1.12                    |
|           |         | Right Tilted      | 0.774               | 0.329                | 1.10                    |
|           |         | Left Cheek        | 0.531               | 0.983                | 1.51                    |
|           |         | Left Tilted       | 0.428               | 0.912                | 1.34                    |
|           | Band 12 | Right Cheek       | 0.983               | 0.296                | 1.28                    |
|           |         | Right Tilted      | 0.664               | 0.329                | 0.99                    |
|           |         | Left Cheek        | 0.487               | 0.983                | 1.47                    |
|           |         | Left Tilted       | 0.420               | 0.912                | 1.33                    |
|           | Band 13 | Right Cheek       | 1.047               | 0.296                | 1.34                    |
|           |         | Right Tilted      | 0.924               | 0.329                | 1.25                    |
|           |         | Left Cheek        | 0.543               | 0.983                | 1.53                    |
|           |         | Left Tilted       | 0.455               | 0.912                | 1.37                    |
|           | Band 5  | Right Cheek       | 0.928               | 0.296                | 1.22                    |
|           |         | Right Tilted      | 0.848               | 0.329                | 1.18                    |
|           |         | Left Cheek        | 0.490               | 0.983                | 1.47                    |
|           |         | Left Tilted       | 0.449               | 0.912                | 1.36                    |
|           | Band 26 | Right Cheek       | 0.817               | 0.296                | 1.11                    |
|           |         | Right Tilted      | 0.575               | 0.329                | 0.90                    |
|           |         | Left Cheek        | 0.276               | 0.983                | 1.26                    |
|           |         | Left Tilted       | 0.237               | 0.912                | 1.15                    |
|           | Band 66 | Right Cheek       | 1.043               | 0.296                | 1.34                    |
|           |         | Right Tilted      | 1.070               | 0.329                | 1.40                    |
|           |         | Left Cheek        | 0.323               | 0.983                | 1.31                    |
|           |         | Left Tilted       | 0.417               | 0.912                | 1.33                    |
|           | Band 25 | Right Cheek       | 1.027               | 0.296                | 1.32                    |
|           |         | Right Tilted      | 0.685               | 0.329                | 1.01                    |
|           |         | Left Cheek        | 0.325               | 0.983                | 1.31                    |
|           |         | Left Tilted       | 0.325               | 0.912                | 1.24                    |
|           | Band 2  | Right Cheek       | 1.007               | 0.296                | 1.30                    |
|           |         | Right Tilted      | 1.028               | 0.329                | 1.36                    |
|           |         | Left Cheek        | 0.326               | 0.983                | 1.31                    |
|           |         | Left Tilted       | 0.405               | 0.912                | 1.32                    |

| WWAN Band |         | Exposure Position | 1                   | 4                    | 5                   | 1+4+5<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|----------------------|---------------------|---------------------------|
|           |         |                   | WWAN<br>Ant.2       | 5GHz WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                           |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)  | 1g<br>SAR<br>(W/kg) |                           |
| GSM       | GSM850  | Right Cheek       | 0.645               | 0.344                | 0.094               | 1.08                      |
|           |         | Right Tilted      | 0.618               | 0.325                | 0.073               | 1.02                      |
|           |         | Left Cheek        | 0.426               | 0.724                | 0.390               | 1.54                      |
|           |         | Left Tilted       | 0.455               | 0.890                | 0.162               | 1.51                      |
|           | GSM1900 | Right Cheek       | 0.721               | 0.344                | 0.094               | 1.16                      |
|           |         | Right Tilted      | 0.511               | 0.325                | 0.073               | 0.91                      |
|           |         | Left Cheek        | 0.205               | 0.724                | 0.390               | 1.32                      |
|           |         | Left Tilted       | 0.186               | 0.890                | 0.162               | 1.24                      |
| WCDMA     | Band V  | Right Cheek       | 0.568               | 0.344                | 0.094               | 1.01                      |
|           |         | Right Tilted      | 0.625               | 0.325                | 0.073               | 1.02                      |
|           |         | Left Cheek        | 0.432               | 0.724                | 0.390               | 1.55                      |
|           |         | Left Tilted       | 0.361               | 0.890                | 0.162               | 1.41                      |
|           | Band IV | Right Cheek       | 0.859               | 0.344                | 0.094               | 1.30                      |
|           |         | Right Tilted      | 0.696               | 0.325                | 0.073               | 1.09                      |
|           |         | Left Cheek        | 0.265               | 0.724                | 0.390               | 1.38                      |
|           |         | Left Tilted       | 0.308               | 0.890                | 0.162               | 1.36                      |
|           | Band II | Right Cheek       | 0.785               | 0.344                | 0.094               | 1.22                      |
|           |         | Right Tilted      | 0.527               | 0.325                | 0.073               | 0.93                      |
|           |         | Left Cheek        | 0.216               | 0.724                | 0.390               | 1.33                      |
|           |         | Left Tilted       | 0.201               | 0.890                | 0.162               | 1.25                      |
| CDMA2000  | BC0     | Right Cheek       | 0.704               | 0.344                | 0.094               | 1.14                      |
|           |         | Right Tilted      | 0.555               | 0.325                | 0.073               | 0.95                      |
|           |         | Left Cheek        | 0.394               | 0.724                | 0.390               | 1.51                      |
|           |         | Left Tilted       | 0.355               | 0.890                | 0.162               | 1.41                      |
|           | BC1     | Right Cheek       | 0.705               | 0.344                | 0.094               | 1.14                      |
|           |         | Right Tilted      | 0.832               | 0.325                | 0.073               | 1.23                      |
|           |         | Left Cheek        | 0.269               | 0.724                | 0.390               | 1.38                      |
|           |         | Left Tilted       | 0.326               | 0.890                | 0.162               | 1.38                      |

| WWAN Band |         | Exposure Position | 1                   | 4                    | 5                   | 1+4+5<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|----------------------|---------------------|---------------------------|
|           |         |                   | WWAN<br>Ant.2       | 5GHz WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                           |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)  | 1g<br>SAR<br>(W/kg) |                           |
| LTE       | Band 71 | Right Cheek       | 0.725               | 0.344                | 0.094               | 1.16                      |
|           |         | Right Tilted      | 0.684               | 0.325                | 0.073               | 1.08                      |
|           |         | Left Cheek        | 0.456               | 0.724                | 0.390               | 1.57                      |
|           |         | Left Tilted       | 0.380               | 0.890                | 0.162               | 1.43                      |
|           | Band 12 | Right Cheek       | 0.690               | 0.344                | 0.094               | 1.13                      |
|           |         | Right Tilted      | 0.650               | 0.325                | 0.073               | 1.05                      |
|           |         | Left Cheek        | 0.467               | 0.724                | 0.390               | 1.58                      |
|           |         | Left Tilted       | 0.505               | 0.890                | 0.162               | 1.56                      |
|           | Band 13 | Right Cheek       | 0.887               | 0.344                | 0.094               | 1.33                      |
|           |         | Right Tilted      | 0.730               | 0.325                | 0.073               | 1.13                      |
|           |         | Left Cheek        | 0.447               | 0.724                | 0.390               | 1.56                      |
|           |         | Left Tilted       | 0.459               | 0.890                | 0.162               | 1.51                      |
|           | Band 5  | Right Cheek       | 0.759               | 0.344                | 0.094               | 1.20                      |
|           |         | Right Tilted      | 0.674               | 0.325                | 0.073               | 1.07                      |
|           |         | Left Cheek        | 0.456               | 0.724                | 0.390               | 1.57                      |
|           |         | Left Tilted       | 0.483               | 0.890                | 0.162               | 1.54                      |
|           | Band 26 | Right Cheek       | 0.817               | 0.344                | 0.094               | 1.26                      |
|           |         | Right Tilted      | 0.575               | 0.325                | 0.073               | 0.97                      |
|           |         | Left Cheek        | 0.276               | 0.724                | 0.390               | 1.39                      |
|           |         | Left Tilted       | 0.237               | 0.890                | 0.162               | 1.29                      |
|           | Band 66 | Right Cheek       | 0.979               | 0.344                | 0.094               | 1.42                      |
|           |         | Right Tilted      | 0.732               | 0.325                | 0.073               | 1.13                      |
|           |         | Left Cheek        | 0.320               | 0.724                | 0.390               | 1.43                      |
|           |         | Left Tilted       | 0.344               | 0.890                | 0.162               | 1.40                      |
|           | Band 25 | Right Cheek       | 0.728               | 0.344                | 0.094               | 1.17                      |
|           |         | Right Tilted      | 0.592               | 0.325                | 0.073               | 0.99                      |
|           |         | Left Cheek        | 0.291               | 0.724                | 0.390               | 1.41                      |
|           |         | Left Tilted       | 0.306               | 0.890                | 0.162               | 1.36                      |
|           | Band 2  | Right Cheek       | 0.652               | 0.344                | 0.094               | 1.09                      |
|           |         | Right Tilted      | 0.649               | 0.325                | 0.073               | 1.05                      |
|           |         | Left Cheek        | 0.262               | 0.724                | 0.390               | 1.38                      |
|           |         | Left Tilted       | 0.310               | 0.890                | 0.162               | 1.36                      |



**<WWAN Antenna 3>**

| WWAN Band |         | Exposure Position | 1                   | 2                    | 1+2<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|----------------------|-------------------------|
|           |         |                   | WWAN<br>Ant.3       | 2.4GHz WLAN<br>Ant.1 |                         |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)  |                         |
| LTE       | Band 30 | Right Cheek       | 0.941               | 0.296                | 1.24                    |
|           |         | Right Tilted      | 0.283               | 0.329                | 0.61                    |
|           |         | Left Cheek        | 0.178               | 0.983                | 1.16                    |
|           |         | Left Tilted       | 0.103               | 0.912                | 1.02                    |
|           | Band 7  | Right Cheek       | 1.098               | 0.296                | 1.39                    |
|           |         | Right Tilted      | 0.263               | 0.329                | 0.59                    |
|           |         | Left Cheek        | 0.149               | 0.983                | 1.13                    |
|           |         | Left Tilted       | 0.149               | 0.912                | 1.06                    |
|           | Band 41 | Right Cheek       | 0.896               | 0.296                | 1.19                    |
|           |         | Right Tilted      | 0.237               | 0.329                | 0.57                    |
|           |         | Left Cheek        | 0.167               | 0.983                | 1.15                    |
|           |         | Left Tilted       | 0.098               | 0.912                | 1.01                    |

| WWAN Band |         | Exposure Position | 1                   | 4                    | 5                   | 1+4+5<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|----------------------|---------------------|---------------------------|
|           |         |                   | WWAN<br>Ant.3       | 5GHz WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                           |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)  | 1g<br>SAR<br>(W/kg) |                           |
| LTE       | Band 30 | Right Cheek       | 0.941               | 0.344                | 0.094               | 1.38                      |
|           |         | Right Tilted      | 0.283               | 0.325                | 0.073               | 0.68                      |
|           |         | Left Cheek        | 0.178               | 0.724                | 0.390               | 1.29                      |
|           |         | Left Tilted       | 0.103               | 0.890                | 0.162               | 1.16                      |
|           | Band 7  | Right Cheek       | 0.855               | 0.344                | 0.094               | 1.29                      |
|           |         | Right Tilted      | 0.196               | 0.325                | 0.073               | 0.59                      |
|           |         | Left Cheek        | 0.162               | 0.724                | 0.390               | 1.28                      |
|           |         | Left Tilted       | 0.119               | 0.890                | 0.162               | 1.17                      |
|           | Band 41 | Right Cheek       | 0.731               | 0.344                | 0.094               | 1.17                      |
|           |         | Right Tilted      | 0.191               | 0.325                | 0.073               | 0.59                      |
|           |         | Left Cheek        | 0.124               | 0.724                | 0.390               | 1.24                      |
|           |         | Left Tilted       | 0.089               | 0.890                | 0.162               | 1.14                      |

## 15.2 Hotspot Exposure Conditions

### <WWAN Antenna 1>

| WWAN Band |         | Exposure Position | 1             | 2                  | 3                  | 4                  | 5                | 1+2 Summed<br>1g SAR<br>(W/kg) | 1+4+5 Summed<br>1g SAR<br>(W/kg) | 2+3 Summed<br>1g SAR<br>(W/kg) |
|-----------|---------|-------------------|---------------|--------------------|--------------------|--------------------|------------------|--------------------------------|----------------------------------|--------------------------------|
|           |         |                   | WWAN Ant. 1   | 2.4GHz WLAN Ant. 1 | 2.4GHz WLAN Ant. 2 | 5GHz WLAN Ant. 1+2 | Bluetooth Ant. 1 |                                |                                  |                                |
|           |         |                   | 1g SAR (W/kg) | 1g SAR (W/kg)      | 1g SAR (W/kg)      | 1g SAR (W/kg)      | 1g SAR (W/kg)    |                                |                                  |                                |
| GSM       | GSM850  | Front             | 0.384         | 0.187              | 0.103              | 0.107              | 0.040            | 0.57                           | 0.53                             | 0.29                           |
|           |         | Back              | 0.586         | 0.181              | 0.187              | 0.671              | 0.039            | 0.77                           | 1.30                             | 0.37                           |
|           |         | Left Side         | 0.215         |                    | 0.210              |                    |                  | 0.22                           | 0.22                             | 0.21                           |
|           |         | Right Side        | 0.082         | 0.275              |                    | 0.268              | 0.095            | 0.36                           | 0.45                             | 0.28                           |
|           |         | Top Side          |               | 0.130              | 0.077              | 0.119              | 0.025            | 0.13                           | 0.14                             | 0.21                           |
|           |         | Bottom Side       | 0.266         |                    |                    |                    |                  | 0.27                           | 0.27                             |                                |
|           | GSM1900 | Front             | 0.438         | 0.187              | 0.103              | 0.107              | 0.040            | 0.63                           | 0.59                             | 0.29                           |
|           |         | Back              | 0.680         | 0.181              | 0.187              | 0.671              | 0.039            | 0.86                           | 1.39                             | 0.37                           |
|           |         | Left Side         | 0.062         |                    | 0.210              |                    |                  | 0.06                           | 0.06                             | 0.21                           |
|           |         | Right Side        | 0.133         | 0.275              |                    | 0.268              | 0.095            | 0.41                           | 0.50                             | 0.28                           |
|           |         | Top Side          |               | 0.130              | 0.077              | 0.119              | 0.025            | 0.13                           | 0.14                             | 0.21                           |
|           |         | Bottom Side       | 1.242         |                    |                    |                    |                  | 1.24                           | 1.24                             |                                |
| WCDMA     | Band V  | Front             | 0.272         | 0.187              | 0.103              | 0.107              | 0.040            | 0.46                           | 0.42                             | 0.29                           |
|           |         | Back              | 0.437         | 0.181              | 0.187              | 0.671              | 0.039            | 0.62                           | 1.15                             | 0.37                           |
|           |         | Left Side         | 0.297         |                    | 0.210              |                    |                  | 0.30                           | 0.30                             | 0.21                           |
|           |         | Right Side        | 0.165         | 0.275              |                    | 0.268              | 0.095            | 0.44                           | 0.53                             | 0.28                           |
|           |         | Top Side          |               | 0.130              | 0.077              | 0.119              | 0.025            | 0.13                           | 0.14                             | 0.21                           |
|           |         | Bottom Side       | 0.226         |                    |                    |                    |                  | 0.23                           | 0.23                             |                                |
|           | Band IV | Front             | 0.409         | 0.187              | 0.103              | 0.107              | 0.040            | 0.60                           | 0.56                             | 0.29                           |
|           |         | Back              | 0.745         | 0.181              | 0.187              | 0.671              | 0.039            | 0.93                           | 1.46                             | 0.37                           |
|           |         | Left Side         | 0.089         |                    | 0.210              |                    |                  | 0.09                           | 0.09                             | 0.21                           |
|           |         | Right Side        | 0.100         | 0.275              |                    | 0.268              | 0.095            | 0.38                           | 0.46                             | 0.28                           |
|           |         | Top Side          |               | 0.130              | 0.077              | 0.119              | 0.025            | 0.13                           | 0.14                             | 0.21                           |
|           |         | Bottom Side       | 1.178         |                    |                    |                    |                  | 1.18                           | 1.18                             |                                |
|           | Band II | Front             | 0.359         | 0.187              | 0.103              | 0.107              | 0.040            | 0.55                           | 0.51                             | 0.29                           |
|           |         | Back              | 0.637         | 0.181              | 0.187              | 0.671              | 0.039            | 0.82                           | 1.35                             | 0.37                           |
|           |         | Left Side         | 0.040         |                    | 0.210              |                    |                  | 0.04                           | 0.04                             | 0.21                           |
|           |         | Right Side        | 0.091         | 0.275              |                    | 0.268              | 0.095            | 0.37                           | 0.45                             | 0.28                           |
|           |         | Top Side          |               | 0.130              | 0.077              | 0.119              | 0.025            | 0.13                           | 0.14                             | 0.21                           |
|           |         | Bottom Side       | 1.137         |                    |                    |                    |                  | 1.14                           | 1.14                             |                                |
| CDMA2000  | BC0     | Front             | 0.313         | 0.187              | 0.103              | 0.107              | 0.040            | 0.50                           | 0.46                             | 0.29                           |
|           |         | Back              | 0.512         | 0.181              | 0.187              | 0.671              | 0.039            | 0.69                           | 1.22                             | 0.37                           |
|           |         | Left Side         | 0.257         |                    | 0.210              |                    |                  | 0.26                           | 0.26                             | 0.21                           |
|           |         | Right Side        | 0.164         | 0.275              |                    | 0.268              | 0.095            | 0.44                           | 0.53                             | 0.28                           |
|           |         | Top Side          |               | 0.130              | 0.077              | 0.119              | 0.025            | 0.13                           | 0.14                             | 0.21                           |
|           |         | Bottom Side       | 0.234         |                    |                    |                    |                  | 0.23                           | 0.23                             |                                |
|           | BC1     | Front             | 0.359         | 0.187              | 0.103              | 0.107              | 0.040            | 0.55                           | 0.51                             | 0.29                           |
|           |         | Back              | 0.562         | 0.181              | 0.187              | 0.671              | 0.039            | 0.74                           | 1.27                             | 0.37                           |
|           |         | Left Side         | 0.034         |                    | 0.210              |                    |                  | 0.03                           | 0.03                             | 0.21                           |
|           |         | Right Side        | 0.078         | 0.275              | 0.000              | 0.268              | 0.095            | 0.35                           | 0.44                             | 0.28                           |
|           |         | Top Side          |               | 0.130              | 0.077              | 0.119              | 0.025            | 0.13                           | 0.14                             | 0.21                           |
|           |         | Bottom Side       | 0.872         |                    |                    |                    |                  | 0.87                           | 0.87                             |                                |



| WWAN Band |         | Exposure Position | 1                   | 2                        | 3                        | 4                        | 5                   | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+4+5<br>Summed<br>1g SAR<br>(W/kg) | 2+3<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|---------|-------------------|---------------------|--------------------------|--------------------------|--------------------------|---------------------|-----------------------------------|-------------------------------------|-----------------------------------|
|           |         |                   | WWAN<br>Ant. 1      | 2.4GHz<br>WLAN<br>Ant. 1 | 2.4GHz<br>WLAN<br>Ant. 2 | 5GHz<br>WLAN<br>Ant. 1+2 | Bluetooth<br>Ant. 1 |                                   |                                     |                                   |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)      | 1g<br>SAR<br>(W/kg)      | 1g<br>SAR<br>(W/kg)      | 1g<br>SAR<br>(W/kg) |                                   |                                     |                                   |
| LTE       | Band 71 | Front             | 0.165               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.35                              | 0.31                                | 0.29                              |
|           |         | Back              | 0.242               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.42                              | 0.95                                | 0.37                              |
|           |         | Left Side         | 0.200               |                          | 0.210                    |                          |                     | 0.20                              | 0.20                                | 0.21                              |
|           |         | Right Side        | 0.174               | 0.275                    |                          | 0.268                    | 0.095               | 0.45                              | 0.54                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 0.103               |                          |                          |                          |                     | 0.10                              | 0.10                                |                                   |
|           | Band 12 | Front             | 0.175               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.36                              | 0.32                                | 0.29                              |
|           |         | Back              | 0.261               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.44                              | 0.97                                | 0.37                              |
|           |         | Left Side         | 0.301               |                          | 0.210                    |                          |                     | 0.30                              | 0.30                                | 0.21                              |
|           |         | Right Side        | 0.243               | 0.275                    |                          | 0.268                    | 0.095               | 0.52                              | 0.61                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 0.105               |                          |                          |                          |                     | 0.11                              | 0.11                                | 0.00                              |
|           | Band 13 | Front             | 0.238               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.43                              | 0.39                                | 0.29                              |
|           |         | Back              | 0.403               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.58                              | 1.11                                | 0.37                              |
|           |         | Left Side         | 0.168               |                          | 0.210                    |                          |                     | 0.17                              | 0.17                                | 0.21                              |
|           |         | Right Side        | 0.098               | 0.275                    |                          | 0.268                    | 0.095               | 0.37                              | 0.46                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 0.219               |                          |                          |                          |                     | 0.22                              | 0.22                                | 0.00                              |
|           | Band 5  | Front             | 0.330               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.52                              | 0.48                                | 0.29                              |
|           |         | Back              | 0.473               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.65                              | 1.18                                | 0.37                              |
|           |         | Left Side         | 0.226               |                          | 0.210                    |                          |                     | 0.23                              | 0.23                                | 0.21                              |
|           |         | Right Side        | 0.181               | 0.275                    |                          | 0.268                    | 0.095               | 0.46                              | 0.54                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 0.240               |                          |                          |                          |                     | 0.24                              | 0.24                                |                                   |
|           | Band 26 | Front             | 0.264               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.45                              | 0.41                                | 0.29                              |
|           |         | Back              | 0.412               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.59                              | 1.12                                | 0.37                              |
|           |         | Left Side         | 0.222               |                          | 0.210                    |                          |                     | 0.22                              | 0.22                                | 0.21                              |
|           |         | Right Side        | 0.135               | 0.275                    |                          | 0.268                    | 0.095               | 0.41                              | 0.50                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 0.190               |                          |                          |                          |                     | 0.19                              | 0.19                                |                                   |
|           | Band 66 | Front             | 0.413               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.60                              | 0.56                                | 0.29                              |
|           |         | Back              | 0.632               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.81                              | 1.34                                | 0.37                              |
|           |         | Left Side         | 0.094               |                          | 0.210                    |                          |                     | 0.09                              | 0.09                                | 0.21                              |
|           |         | Right Side        | 0.321               | 0.275                    |                          | 0.268                    | 0.095               | 0.60                              | 0.68                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 1.093               |                          |                          |                          |                     | 1.09                              | 1.09                                |                                   |
|           | Band 25 | Front             | 0.463               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.65                              | 0.61                                | 0.29                              |
|           |         | Back              | 0.724               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.91                              | 1.43                                | 0.37                              |
|           |         | Left Side         | 0.072               |                          | 0.210                    |                          |                     | 0.07                              | 0.07                                | 0.21                              |
|           |         | Right Side        | 0.124               | 0.275                    |                          | 0.268                    | 0.095               | 0.40                              | 0.49                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 1.251               |                          |                          |                          |                     | 1.25                              | 1.25                                |                                   |
|           | Band 2  | Front             | 0.441               | 0.187                    | 0.103                    | 0.107                    | 0.040               | 0.63                              | 0.59                                | 0.29                              |
|           |         | Back              | 0.691               | 0.181                    | 0.187                    | 0.671                    | 0.039               | 0.87                              | 1.40                                | 0.37                              |
|           |         | Left Side         | 0.132               |                          | 0.210                    |                          |                     | 0.13                              | 0.13                                | 0.21                              |
|           |         | Right Side        | 0.382               | 0.275                    |                          | 0.268                    | 0.095               | 0.66                              | 0.75                                | 0.28                              |
|           |         | Top Side          |                     | 0.130                    | 0.077                    | 0.119                    | 0.025               | 0.13                              | 0.14                                | 0.21                              |
|           |         | Bottom Side       | 1.320               |                          |                          |                          |                     | 1.32                              | 1.32                                |                                   |

**<WWAN Antenna 2>**

| WWAN Band |         | Exposure Position | 1                   | 2                       | 4                       | 5                   | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+4+5<br>Summed<br>1g SAR |
|-----------|---------|-------------------|---------------------|-------------------------|-------------------------|---------------------|-----------------------------------|---------------------------|
|           |         |                   | WWAN<br>Ant.1       | 2.4GHz<br>WLAN<br>Ant.1 | 5GHz<br>WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                                   |                           |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg) |                                   |                           |
| GSM       | GSM850  | Front             | 0.430               | 0.187                   | 0.107                   | 0.040               | 0.62                              | 0.58                      |
|           |         | Back              | 0.665               | 0.181                   | 0.671                   | 0.039               | 0.85                              | 1.38                      |
|           |         | Left Side         | 0.313               |                         |                         |                     | 0.31                              | 0.31                      |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                      |
|           |         | Top Side          | 0.481               | 0.130                   | 0.119                   | 0.025               | 0.61                              | 0.63                      |
|           | GSM1900 | Front             | 0.184               | 0.187                   | 0.107                   | 0.040               | 0.37                              | 0.33                      |
|           |         | Back              | 0.305               | 0.181                   | 0.671                   | 0.039               | 0.49                              | 1.02                      |
|           |         | Left Side         | 0.089               |                         |                         |                     | 0.09                              | 0.09                      |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                      |
|           |         | Top Side          | 0.458               | 0.130                   | 0.119                   | 0.025               | 0.59                              | 0.60                      |
| WCDMA     | Band V  | Front             | 0.462               | 0.187                   | 0.107                   | 0.040               | 0.65                              | 0.61                      |
|           |         | Back              | 0.674               | 0.181                   | 0.671                   | 0.039               | 0.86                              | 1.38                      |
|           |         | Left Side         | 0.257               |                         |                         |                     | 0.26                              | 0.26                      |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                      |
|           |         | Top Side          | 0.009               | 0.130                   | 0.119                   | 0.025               | 0.14                              | 0.15                      |
|           | Band IV | Front             | 0.611               | 0.187                   | 0.107                   | 0.040               | 0.80                              | 0.76                      |
|           |         | Back              | 0.586               | 0.181                   | 0.671                   | 0.039               | 0.77                              | 1.30                      |
|           |         | Left Side         | 0.527               |                         |                         |                     | 0.53                              | 0.53                      |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                      |
|           |         | Top Side          | 0.994               | 0.130                   | 0.119                   | 0.025               | 1.12                              | 1.14                      |
|           | Band II | Front             | 0.639               | 0.187                   | 0.107                   | 0.040               | 0.83                              | 0.79                      |
|           |         | Back              | 0.741               | 0.181                   | 0.671                   | 0.039               | 0.92                              | 1.45                      |
|           |         | Left Side         | 0.350               |                         |                         |                     | 0.35                              | 0.35                      |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                      |
|           |         | Top Side          | 0.967               | 0.130                   | 0.119                   | 0.025               | 1.10                              | 1.11                      |
| CDMA2000  | BC0     | Front             | 0.532               | 0.187                   | 0.107                   | 0.040               | 0.72                              | 0.68                      |
|           |         | Back              | 0.747               | 0.181                   | 0.671                   | 0.039               | 0.93                              | 1.46                      |
|           |         | Left Side         | 0.128               |                         |                         |                     | 0.13                              | 0.13                      |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                      |
|           |         | Top Side          | 0.606               | 0.130                   | 0.119                   | 0.025               | 0.74                              | 0.75                      |
|           | BC1     | Front             | 0.703               | 0.187                   | 0.107                   | 0.040               | 0.89                              | 0.85                      |
|           |         | Back              | 0.707               | 0.181                   | 0.671                   | 0.039               | 0.89                              | 1.42                      |
|           |         | Left Side         | 0.555               |                         |                         |                     | 0.56                              | 0.56                      |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                      |
|           |         | Top Side          | 1.078               | 0.130                   | 0.119                   | 0.025               | 1.21                              | 1.22                      |



| WWAN Band |         | Exposure Position | 1                   | 2                        | 4                       | 5                   | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+4+5<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|---------|-------------------|---------------------|--------------------------|-------------------------|---------------------|-----------------------------------|-------------------------------------|
|           |         |                   | WWAN<br>Ant.1       | 2.4GHz<br>WLAN<br>Ant. 1 | 5GHz<br>WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                                   |                                     |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)      | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg) |                                   |                                     |
| LTE       | Band 71 | Front             | 0.450               | 0.187                    | 0.107                   | 0.040               | 0.64                              | 0.60                                |
|           |         | Back              | 0.537               | 0.181                    | 0.671                   | 0.039               | 0.72                              | 1.25                                |
|           |         | Left Side         | 0.242               |                          |                         |                     | 0.24                              | 0.24                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.322               | 0.130                    | 0.119                   | 0.025               | 0.45                              | 0.47                                |
|           | Band 12 | Front             | 0.448               | 0.187                    | 0.107                   | 0.040               | 0.64                              | 0.60                                |
|           |         | Back              | 0.547               | 0.181                    | 0.671                   | 0.039               | 0.73                              | 1.26                                |
|           |         | Left Side         | 0.173               |                          |                         |                     | 0.17                              | 0.17                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.396               | 0.130                    | 0.119                   | 0.025               | 0.53                              | 0.54                                |
|           | Band 13 | Front             | 0.463               | 0.187                    | 0.107                   | 0.040               | 0.65                              | 0.61                                |
|           |         | Back              | 0.604               | 0.181                    | 0.671                   | 0.039               | 0.79                              | 1.31                                |
|           |         | Left Side         | 0.291               |                          |                         |                     | 0.29                              | 0.29                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.408               | 0.130                    | 0.119                   | 0.025               | 0.54                              | 0.55                                |
|           | Band 5  | Front             | 0.242               | 0.187                    | 0.107                   | 0.040               | 0.43                              | 0.39                                |
|           |         | Back              | 0.636               | 0.181                    | 0.671                   | 0.039               | 0.82                              | 1.35                                |
|           |         | Left Side         | 0.200               |                          |                         |                     | 0.20                              | 0.20                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.462               | 0.130                    | 0.119                   | 0.025               | 0.59                              | 0.61                                |
|           | Band 26 | Front             | 0.426               | 0.187                    | 0.107                   | 0.040               | 0.61                              | 0.57                                |
|           |         | Back              | 0.596               | 0.181                    | 0.671                   | 0.039               | 0.78                              | 1.31                                |
|           |         | Left Side         | 0.197               |                          |                         |                     | 0.20                              | 0.20                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.379               | 0.130                    | 0.119                   | 0.025               | 0.51                              | 0.52                                |
|           | Band 66 | Front             | 0.229               | 0.187                    | 0.107                   | 0.040               | 0.42                              | 0.38                                |
|           |         | Back              | 0.808               | 0.181                    | 0.671                   | 0.039               | 0.99                              | 1.52                                |
|           |         | Left Side         | 0.235               |                          |                         |                     | 0.24                              | 0.24                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.792               | 0.130                    | 0.119                   | 0.025               | 0.92                              | 0.94                                |
|           | Band 25 | Front             | 0.579               | 0.187                    | 0.107                   | 0.040               | 0.77                              | 0.73                                |
|           |         | Back              | 0.764               | 0.181                    | 0.671                   | 0.039               | 0.95                              | 1.47                                |
|           |         | Left Side         | 0.370               |                          |                         |                     | 0.37                              | 0.37                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.761               | 0.130                    | 0.119                   | 0.025               | 0.89                              | 0.91                                |
|           | Band 2  | Front             | 0.644               | 0.187                    | 0.107                   | 0.040               | 0.83                              | 0.79                                |
|           |         | Back              | 0.816               | 0.181                    | 0.671                   | 0.039               | 1.00                              | 1.53                                |
|           |         | Left Side         | 0.419               |                          |                         |                     | 0.42                              | 0.42                                |
|           |         | Right Side        |                     | 0.275                    | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.936               | 0.130                    | 0.119                   | 0.025               | 1.07                              | 1.08                                |

**<WWAN Antenna 3>**

| WWAN Band |         | Exposure Position | 1                   | 2                       | 4                       | 5                   | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+4+5<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|---------|-------------------|---------------------|-------------------------|-------------------------|---------------------|-----------------------------------|-------------------------------------|
|           |         |                   | WWAN<br>Ant.3       | 2.4GHz<br>WLAN<br>Ant.1 | 5GHz<br>WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                                   |                                     |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg) |                                   |                                     |
| LTE       | Band 30 | Front             | 0.506               | 0.187                   | 0.107                   | 0.040               | 0.69                              | 0.65                                |
|           |         | Back              | 0.877               | 0.181                   | 0.671                   | 0.039               | 1.06                              | 1.59                                |
|           |         | Left Side         | 0.733               |                         |                         |                     | 0.73                              | 0.73                                |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.147               | 0.130                   | 0.119                   | 0.025               | 0.28                              | 0.29                                |
|           | Band 7  | Front             | 0.373               | 0.187                   | 0.107                   | 0.040               | 0.56                              | 0.52                                |
|           |         | Back              | 0.876               | 0.181                   | 0.671                   | 0.039               | 1.06                              | 1.59                                |
|           |         | Left Side         | 0.910               |                         |                         |                     | 0.91                              | 0.91                                |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.131               | 0.130                   | 0.119                   | 0.025               | 0.26                              | 0.28                                |
|           | Band 41 | Front             | 0.235               | 0.187                   | 0.107                   | 0.040               | 0.42                              | 0.38                                |
|           |         | Back              | 0.627               | 0.181                   | 0.671                   | 0.039               | 0.81                              | 1.34                                |
|           |         | Left Side         | 0.710               |                         |                         |                     | 0.71                              | 0.71                                |
|           |         | Right Side        |                     | 0.275                   | 0.268                   | 0.095               | 0.28                              | 0.36                                |
|           |         | Top Side          | 0.055               | 0.130                   | 0.119                   | 0.025               | 0.19                              | 0.20                                |

### 15.3 Body-Worn Accessory Exposure Conditions

#### <WWAN Antenna 1>

| WWAN Band |         | Exposure Position | 1                   | 2                        | 3                       | 4                       | 5                   | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+4+5            |       |            | 2+3<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|---------|-------------------|---------------------|--------------------------|-------------------------|-------------------------|---------------------|-----------------------------------|------------------|-------|------------|-----------------------------------|
|           |         |                   | WWAN<br>Ant. 1      | 2.4GHz<br>WLAN<br>Ant. 1 | 2.4GHz<br>WLAN<br>Ant.2 | 5GHz<br>WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                                   | Summed<br>1g SAR | SPLSR | Case<br>No |                                   |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)      | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg) |                                   |                  |       |            |                                   |
| GSM       | GSM850  | Front             | 0.209               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.27                              | 0.32             |       |            | 0.12                              |
|           |         | Back              | 0.272               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.39                              | 1.13             |       |            | 0.24                              |
|           | GSM1900 | Front             | 0.251               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.31                              | 0.36             |       |            | 0.12                              |
|           |         | Back              | 0.387               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.50                              | 1.25             |       |            | 0.24                              |
| WCDMA     | Band V  | Front             | 0.215               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.28                              | 0.33             |       |            | 0.12                              |
|           |         | Back              | 0.251               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.37                              | 1.11             |       |            | 0.24                              |
|           | Band IV | Front             | 0.637               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.70                              | 0.75             |       |            | 0.12                              |
|           |         | Back              | 1.132               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 1.25                              | 1.99             | 0.02  | #01        | 0.24                              |
|           | Band II | Front             | 0.682               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.74                              | 0.79             |       |            | 0.12                              |
|           |         | Back              | 1.192               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 1.31                              | 2.05             | 0.02  | #02        | 0.24                              |
| CDMA2000  | BC0     | Front             | 0.177               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.24                              | 0.29             |       |            | 0.12                              |
|           |         | Back              | 0.217               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.33                              | 1.08             |       |            | 0.24                              |
|           | BC1     | Front             | 0.640               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.70                              | 0.75             |       |            | 0.12                              |
|           |         | Back              | 0.990               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 1.11                              | 1.85             | 0.02  | #03        | 0.24                              |
| LTE       | Band 71 | Front             | 0.124               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.19                              | 0.24             |       |            | 0.12                              |
|           |         | Back              | 0.174               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.29                              | 1.03             |       |            | 0.24                              |
|           | Band 12 | Front             | 0.173               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.24                              | 0.29             |       |            | 0.12                              |
|           |         | Back              | 0.221               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.34                              | 1.08             |       |            | 0.24                              |
|           | Band 13 | Front             | 0.183               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.25                              | 0.30             |       |            | 0.12                              |
|           |         | Back              | 0.224               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.34                              | 1.08             |       |            | 0.24                              |
|           | Band 5  | Front             | 0.187               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.25                              | 0.30             |       |            | 0.12                              |
|           |         | Back              | 0.214               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.33                              | 1.07             |       |            | 0.24                              |
|           | Band 26 | Front             | 0.158               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.22                              | 0.27             |       |            | 0.12                              |
|           |         | Back              | 0.213               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.33                              | 1.07             |       |            | 0.24                              |
|           | Band 66 | Front             | 0.528               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.59                              | 0.64             |       |            | 0.12                              |
|           |         | Back              | 0.838               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.96                              | 1.70             | 0.02  | #04        | 0.24                              |
|           | Band 25 | Front             | 0.530               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.59                              | 0.64             |       |            | 0.12                              |
|           |         | Back              | 0.853               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 0.97                              | 1.71             | 0.02  | #05        | 0.24                              |
|           | Band 2  | Front             | 0.613               | 0.062                    | 0.055                   | 0.103                   | 0.009               | 0.68                              | 0.73             |       |            | 0.12                              |
|           |         | Back              | 0.980               | 0.117                    | 0.119                   | 0.843                   | 0.017               | 1.10                              | 1.84             | 0.02  | #06        | 0.24                              |



**<WWAN Antenna 2>**

| WWAN Band |         | Exposure Position | 1                   | 2                       | 4                       | 5                   | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+4+5<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|---------|-------------------|---------------------|-------------------------|-------------------------|---------------------|-----------------------------------|-------------------------------------|
|           |         |                   | WWAN<br>Ant.1       | 2.4GHz<br>WLAN<br>Ant.1 | 5GHz<br>WLAN<br>Ant.1+2 | Bluetooth<br>Ant.1  |                                   |                                     |
|           |         |                   | 1g<br>SAR<br>(W/kg) | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg)     | 1g<br>SAR<br>(W/kg) |                                   |                                     |
| GSM       | GSM850  | Front             | 0.217               | 0.062                   | 0.103                   | 0.009               | 0.28                              | 0.33                                |
|           |         | Back              | 0.280               | 0.117                   | 0.843                   | 0.017               | 0.40                              | 1.14                                |
|           | GSM1900 | Front             | 0.120               | 0.062                   | 0.103                   | 0.009               | 0.18                              | 0.23                                |
|           |         | Back              | 0.163               | 0.117                   | 0.843                   | 0.017               | 0.28                              | 1.02                                |
| WCDMA     | Band V  | Front             | 0.253               | 0.062                   | 0.103                   | 0.009               | 0.32                              | 0.37                                |
|           |         | Back              | 0.316               | 0.117                   | 0.843                   | 0.017               | 0.43                              | 1.18                                |
|           | Band IV | Front             | 0.282               | 0.062                   | 0.103                   | 0.009               | 0.34                              | 0.39                                |
|           |         | Back              | 0.365               | 0.117                   | 0.843                   | 0.017               | 0.48                              | 1.23                                |
|           | Band II | Front             | 0.315               | 0.062                   | 0.103                   | 0.009               | 0.38                              | 0.43                                |
|           |         | Back              | 0.518               | 0.117                   | 0.843                   | 0.017               | 0.64                              | 1.38                                |
| CDMA2000  | BC0     | Front             | 0.148               | 0.062                   | 0.103                   | 0.009               | 0.21                              | 0.26                                |
|           |         | Back              | 0.212               | 0.117                   | 0.843                   | 0.017               | 0.33                              | 1.07                                |
|           | BC1     | Front             | 0.256               | 0.062                   | 0.103                   | 0.009               | 0.32                              | 0.37                                |
|           |         | Back              | 0.452               | 0.117                   | 0.843                   | 0.017               | 0.57                              | 1.31                                |
| LTE       | Band 71 | Front             | 0.183               | 0.062                   | 0.103                   | 0.009               | 0.25                              | 0.30                                |
|           |         | Back              | 0.243               | 0.117                   | 0.843                   | 0.017               | 0.36                              | 1.10                                |
|           | Band 12 | Front             | 0.173               | 0.062                   | 0.103                   | 0.009               | 0.24                              | 0.29                                |
|           |         | Back              | 0.246               | 0.117                   | 0.843                   | 0.017               | 0.36                              | 1.11                                |
|           | Band 13 | Front             | 0.193               | 0.062                   | 0.103                   | 0.009               | 0.26                              | 0.31                                |
|           |         | Back              | 0.260               | 0.117                   | 0.843                   | 0.017               | 0.38                              | 1.12                                |
|           | Band 5  | Front             | 0.113               | 0.062                   | 0.103                   | 0.009               | 0.18                              | 0.23                                |
|           |         | Back              | 0.268               | 0.117                   | 0.843                   | 0.017               | 0.39                              | 1.13                                |
|           | Band 26 | Front             | 0.210               | 0.062                   | 0.103                   | 0.009               | 0.27                              | 0.32                                |
|           |         | Back              | 0.267               | 0.117                   | 0.843                   | 0.017               | 0.38                              | 1.13                                |
|           | Band 66 | Front             | 0.297               | 0.062                   | 0.103                   | 0.009               | 0.36                              | 0.41                                |
|           |         | Back              | 0.402               | 0.117                   | 0.843                   | 0.017               | 0.52                              | 1.26                                |
|           | Band 25 | Front             | 0.302               | 0.062                   | 0.103                   | 0.009               | 0.36                              | 0.41                                |
|           |         | Back              | 0.387               | 0.117                   | 0.843                   | 0.017               | 0.50                              | 1.25                                |
|           | Band 2  | Front             | 0.152               | 0.062                   | 0.103                   | 0.009               | 0.21                              | 0.26                                |
|           |         | Back              | 0.215               | 0.117                   | 0.843                   | 0.017               | 0.33                              | 1.08                                |

**<WWAN Antenna 3>**

| WWAN Band |         | Exposure Position | 1             | 2                 | 4                 | 5               | 1+2<br>Summed<br>1g SAR (W/kg) | 1+4+5<br>Summed<br>1g SAR (W/kg) |
|-----------|---------|-------------------|---------------|-------------------|-------------------|-----------------|--------------------------------|----------------------------------|
|           |         |                   | WWAN Ant.3    | 2.4GHz WLAN Ant.1 | 5GHz WLAN Ant.1+2 | Bluetooth Ant.1 |                                |                                  |
|           |         |                   | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   |                                |                                  |
| LTE       | Band 30 | Front             | 0.234         | 0.062             | 0.103             | 0.009           | 0.30                           | 0.35                             |
|           |         | Back              | 0.471         | 0.117             | 0.843             | 0.017           | 0.59                           | 1.33                             |
|           | Band 7  | Front             | 0.186         | 0.062             | 0.103             | 0.009           | 0.25                           | 0.30                             |
|           |         | Back              | 0.458         | 0.117             | 0.843             | 0.017           | 0.58                           | 1.32                             |
|           | Band 41 | Front             | 0.117         | 0.062             | 0.103             | 0.009           | 0.18                           | 0.23                             |
|           |         | Back              | 0.324         | 0.117             | 0.843             | 0.017           | 0.44                           | 1.18                             |

### 15.4 Product specific 10g SAR Exposure Conditions

| WWAN Band |         | Exposure Position | 1              | 2                 | 1+2                   |       |         |
|-----------|---------|-------------------|----------------|-------------------|-----------------------|-------|---------|
|           |         |                   | WWAN Antenna 1 | 5GHz WLAN Ant.1+2 | Summed 10g SAR (W/kg) | SPLSR | Case No |
|           |         |                   | 10g SAR (W/kg) | 10g SAR (W/kg)    |                       |       |         |
| GSM       | GSM1900 | Bottom Side       | 2.520          |                   | 2.52                  |       |         |
| WCDMA     | Band IV | Back              | 2.560          | 3.157             | 5.72                  | 0.09  | #07     |
|           |         | Bottom Side       | 3.479          |                   | 3.48                  |       |         |
|           | Band II | Back              | 2.607          | 3.157             | 5.76                  | 0.09  | #08     |
|           |         | Bottom Side       | 3.059          |                   | 3.06                  |       |         |
| CDMA      | BC1     | Front             | 2.036          | 1.137             | 3.17                  |       |         |
|           |         | Back              | 2.820          | 3.157             | 5.98                  | 0.09  | #09     |
|           |         | Bottom Side       | 3.515          |                   | 3.52                  |       |         |
| LTE       | Band 66 | Back              | 2.623          | 3.157             | 5.78                  | 0.10  | #10     |
|           |         | Bottom Side       | 3.577          |                   | 3.58                  |       |         |
|           | Band 25 | Back              | 2.861          | 3.157             | 6.02                  | 0.10  | #11     |
|           |         | Bottom Side       | 3.587          |                   | 3.59                  |       |         |
|           | Band 2  | Back              | 2.922          | 3.157             | 6.08                  | 0.10  | #12     |
|           |         | Bottom Side       | 3.619          |                   | 3.62                  |       |         |

**Remark:**

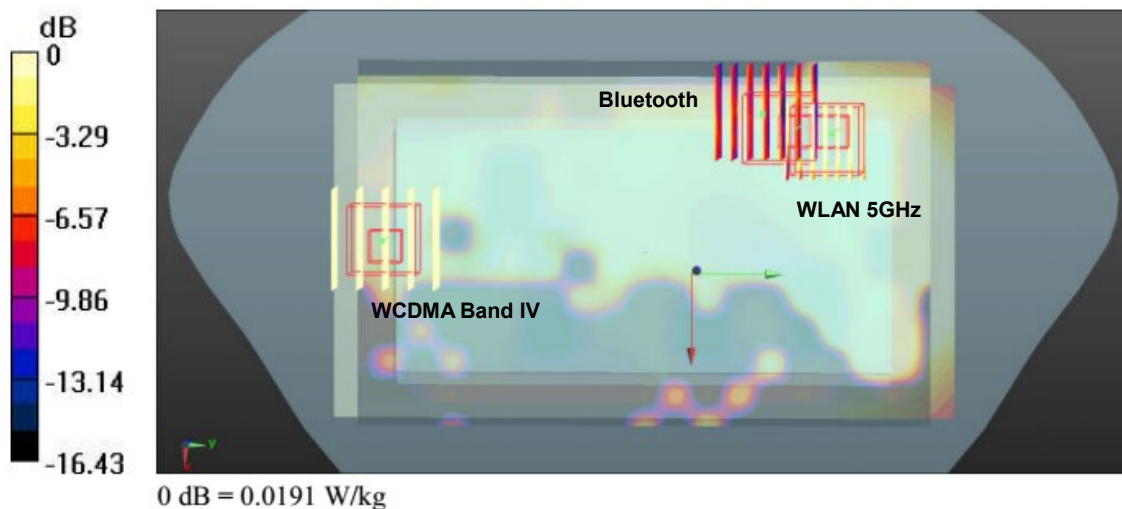
1. For Bluetooth/WLAN 2.4GHz Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.
2. SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.

## 15.5 SPLSR Evaluation and Analysis

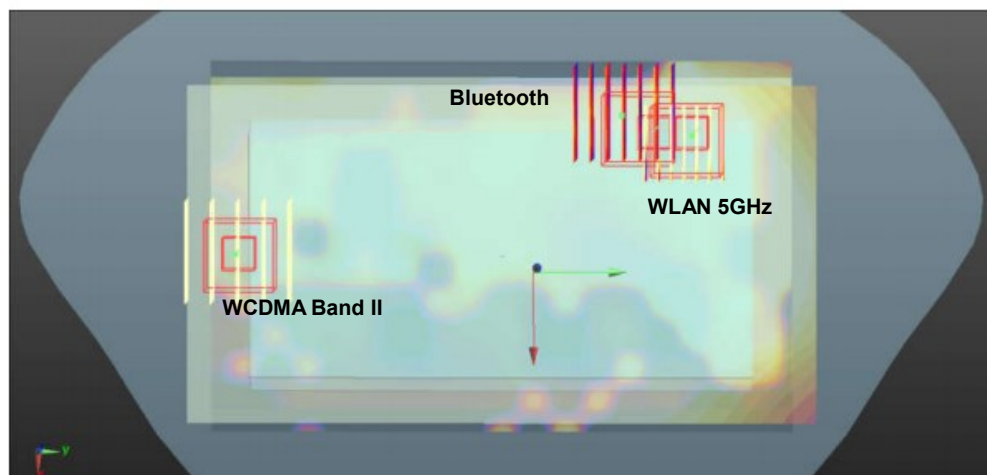
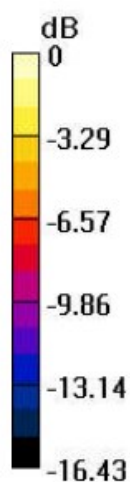
### General Note:

- When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of  $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$ , where  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$  are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
- $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$ . If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.

| Case #01 | Band          | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (m) |         |        | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|-----------------------|---------|--------|------------------|----------------------|---------------|------------------|
|          |               |          |               |          | X                     | Y       | Z      |                  |                      |               |                  |
|          | WCDMA Band IV | Back     | 1.132         | 15       | -0.02                 | -0.0825 | -0.206 | 166.2            | 1.98                 | 0.02          | Not required     |
|          | WLAN 5GHz     |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 |                  |                      |               |                  |
|          | WCDMA Band IV |          | 1.132         | 15       | -0.02                 | -0.0825 | -0.206 | 134.4            | 1.15                 | 0.01          | Not required     |
|          | Bluetooth     |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |
|          | WLAN 5GHz     |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 | 32.8             | 0.86                 | 0.02          | Not required     |
|          | Bluetooth     |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |

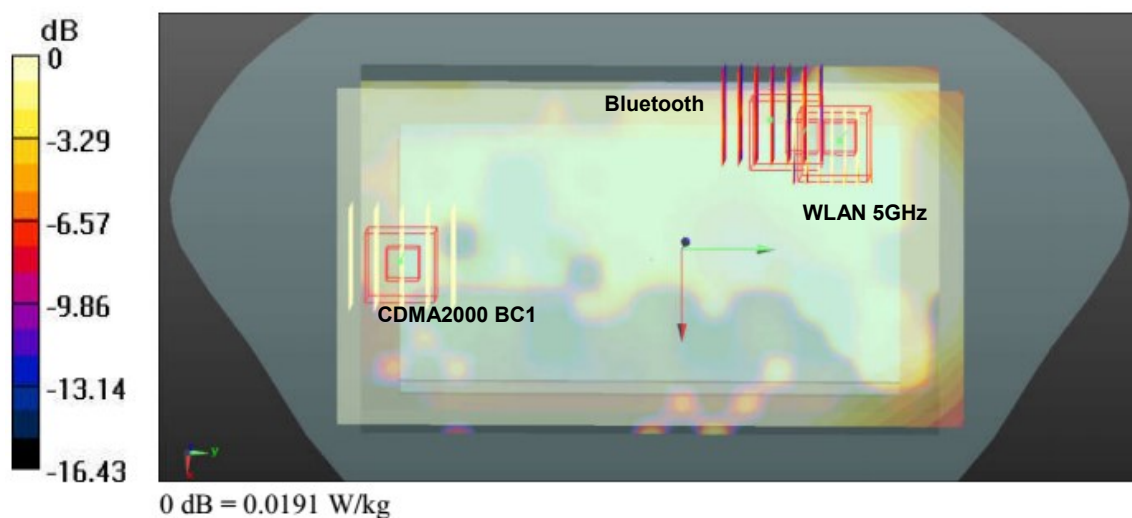


| Case #02 | Band          | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (m) |         |        | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|-----------------------|---------|--------|------------------|----------------------|---------------|------------------|
|          |               |          |               |          | X                     | Y       | Z      |                  |                      |               |                  |
|          | WCDMA Band II | Back     | 1.192         | 15       | -0.017                | -0.0825 | -0.206 | 166.9            | 2.04                 | 0.02          | Not required     |
|          | WLAN 5GHz     |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 |                  |                      |               |                  |
|          | WCDMA Band II |          | 1.192         | 15       | -0.017                | -0.0825 | -0.206 | 135.2            | 1.21                 | 0.01          | Not required     |
|          | Bluetooth     |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |
|          | WLAN 5GHz     |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 | 32.8             | 0.86                 | 0.02          | Not required     |
|          | Bluetooth     |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |

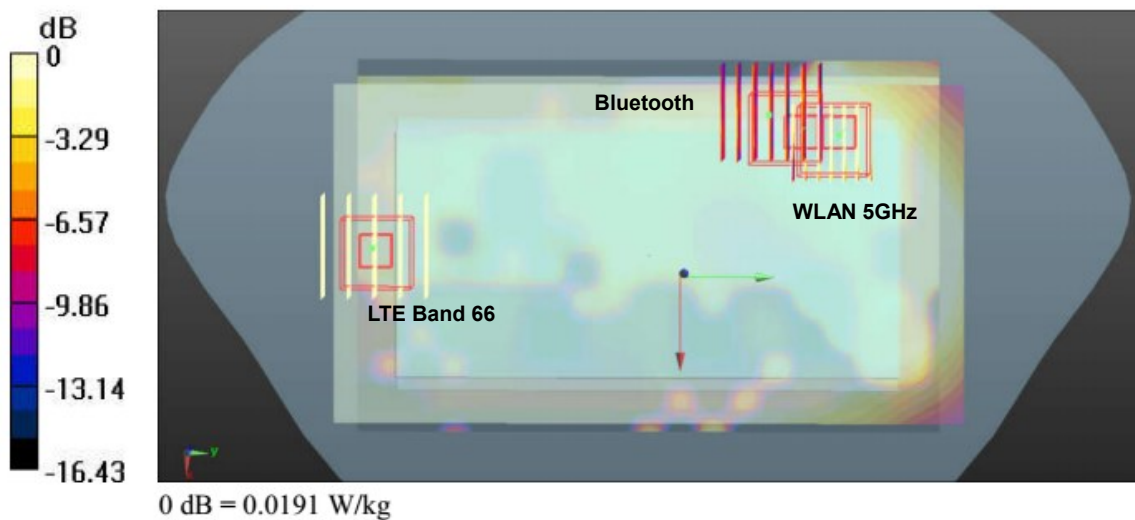


0 dB = 0.0191 W/kg

|          | Band         | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (m) |        |        | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|-----------------------|--------|--------|------------------|----------------------|---------------|------------------|
|          |              |          |               |          | X                     | Y      | Z      |                  |                      |               |                  |
| Case #03 | CDMA2000 BC1 | Back     | 0.990         | 15       | -0.0155               | -0.078 | -0.206 | 162.9            | 1.83                 | 0.02          | Not required     |
|          | WLAN 5GHz    |          | 0.843         | 15       | -0.055                | 0.08   | -0.206 |                  |                      |               |                  |
|          | CDMA2000 BC1 |          | 0.990         | 15       | -0.0155               | -0.078 | -0.206 | 131.3            | 1.01                 | 0.01          | Not required     |
|          | Bluetooth    |          | 0.017         | 15       | -0.0552               | 0.0472 | -0.207 |                  |                      |               |                  |
|          | WLAN 5GHz    |          | 0.843         | 15       | -0.055                | 0.08   | -0.206 | 32.8             | 0.86                 | 0.02          | Not required     |
|          | Bluetooth    |          | 0.017         | 15       | -0.0552               | 0.0472 | -0.207 |                  |                      |               |                  |

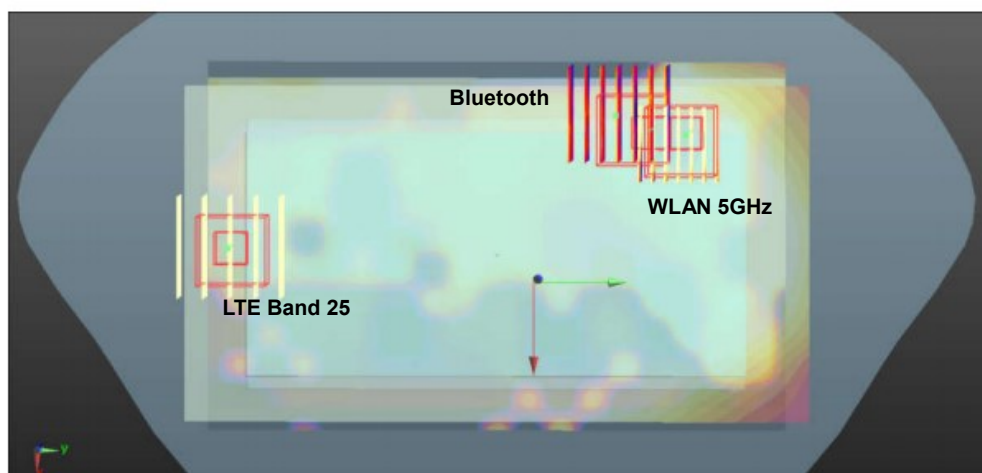
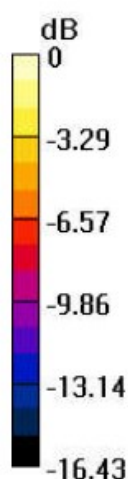


| Case #04 | Band        | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (m) |         |        | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|-----------------------|---------|--------|------------------|----------------------|---------------|------------------|
|          |             |          |               |          | X                     | Y       | Z      |                  |                      |               |                  |
|          | LTE Band 66 | Back     | 0.838         | 15       | -0.0185               | -0.0855 | -0.206 | 169.5            | 1.68                 | 0.01          | Not required     |
|          | WLAN 5GHz   |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 |                  |                      |               |                  |
|          | LTE Band 66 |          | 0.838         | 15       | -0.0185               | -0.0855 | -0.206 | 137.7            | 0.86                 | 0.01          | Not required     |
|          | Bluetooth   |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |
|          | WLAN 5GHz   |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 | 32.8             | 0.86                 | 0.02          | Not required     |
|          | Bluetooth   |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |



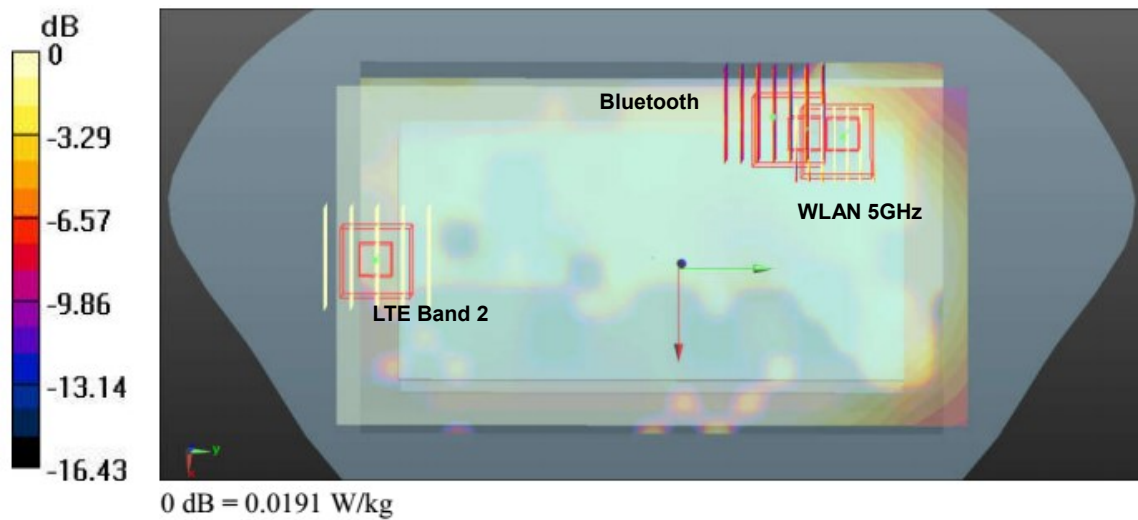


| Case #05 | Band        | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (m) |        |        | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|-----------------------|--------|--------|------------------|----------------------|---------------|------------------|
|          |             |          |               |          | X                     | Y      | Z      |                  |                      |               |                  |
|          | LTE Band 25 | Back     | 0.853         | 15       | -0.0185               | -0.084 | -0.206 | 168.0            | 1.70                 | 0.01          | Not required     |
|          | WLAN 5GHz   |          | 0.843         | 15       | -0.055                | 0.08   | -0.206 |                  |                      |               |                  |
|          | LTE Band 25 |          | 0.853         | 15       | -0.0185               | -0.084 | -0.206 | 136.2            | 0.87                 | 0.01          | Not required     |
|          | Bluetooth   |          | 0.017         | 15       | -0.0552               | 0.0472 | -0.207 |                  |                      |               |                  |
|          | WLAN 5GHz   |          | 0.843         | 15       | -0.055                | 0.08   | -0.206 | 32.8             | 0.86                 | 0.02          | Not required     |
|          | Bluetooth   |          | 0.017         | 15       | -0.0552               | 0.0472 | -0.207 |                  |                      |               |                  |

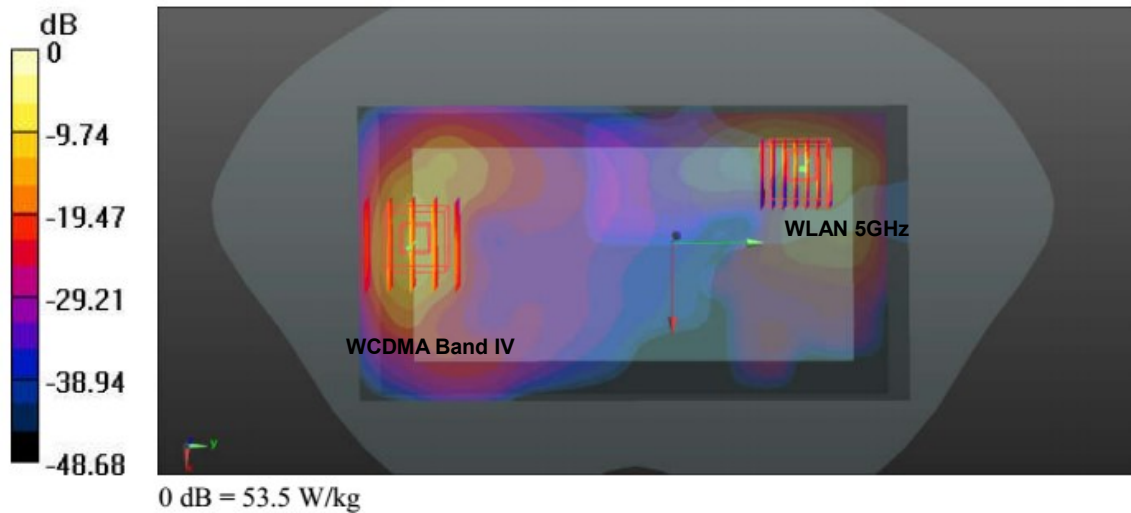


0 dB = 0.0191 W/kg

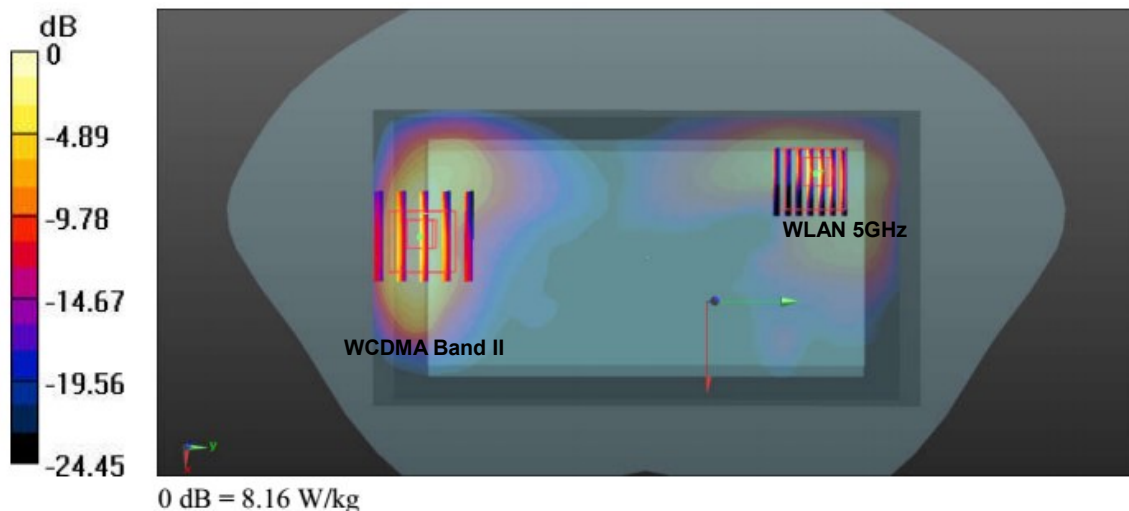
| Case #06 | Band       | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (m) |         |        | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|----------|---------------|----------|-----------------------|---------|--------|------------------|----------------------|---------------|------------------|
|          |            |          |               |          | X                     | Y       | Z      |                  |                      |               |                  |
|          | LTE Band 2 | Back     | 0.980         | 15       | -0.0155               | -0.0855 | -0.206 | 170.1            | 1.82                 | 0.01          | Not required     |
|          | WLAN 5GHz  |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 |                  |                      |               |                  |
|          | LTE Band 2 |          | 0.980         | 15       | -0.0155               | -0.0855 | -0.206 | 138.5            | 1.00                 | 0.01          | Not required     |
|          | Bluetooth  |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |
|          | WLAN 5GHz  |          | 0.843         | 15       | -0.055                | 0.08    | -0.206 | 32.8             | 0.86                 | 0.02          | Not required     |
|          | Bluetooth  |          | 0.017         | 15       | -0.0552               | 0.0472  | -0.207 |                  |                      |               |                  |



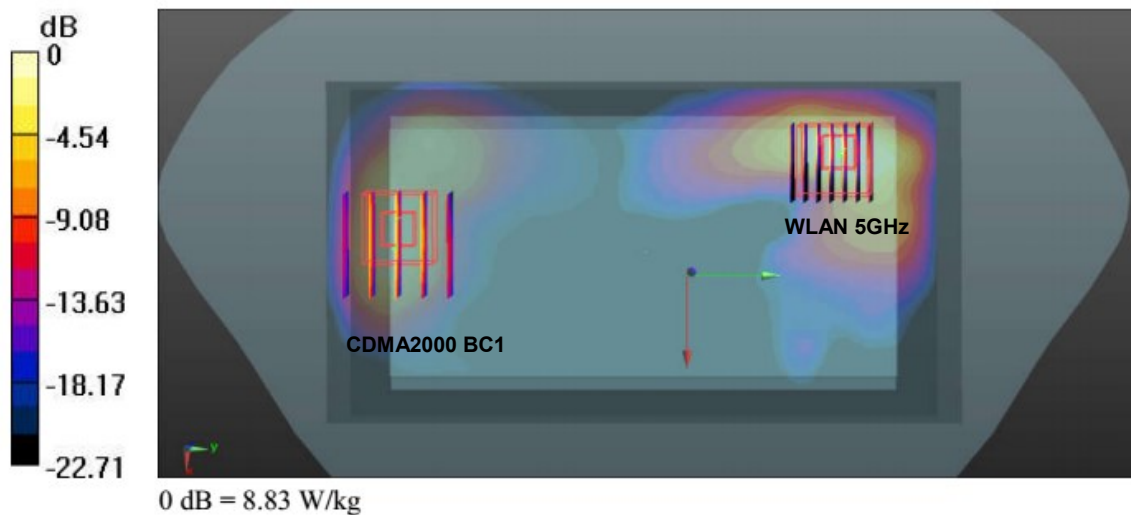
| Case #07 | Band          | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (m) |         |        | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|----------------|----------|-----------------------|---------|--------|------------------|-----------------------|---------------|------------------|
|          |               |          |                |          | X                     | Y       | Z      |                  |                       |               |                  |
|          | WCDMA Band IV | Back     | 2.560          | 0        | -0.0185               | -0.0895 | -0.207 | 153.4            | 5.72                  | 0.09          | Not required     |
|          | WLAN 5GHz     |          | 3.157          | 0        | -0.048                | 0.061   | -0.206 |                  |                       |               |                  |



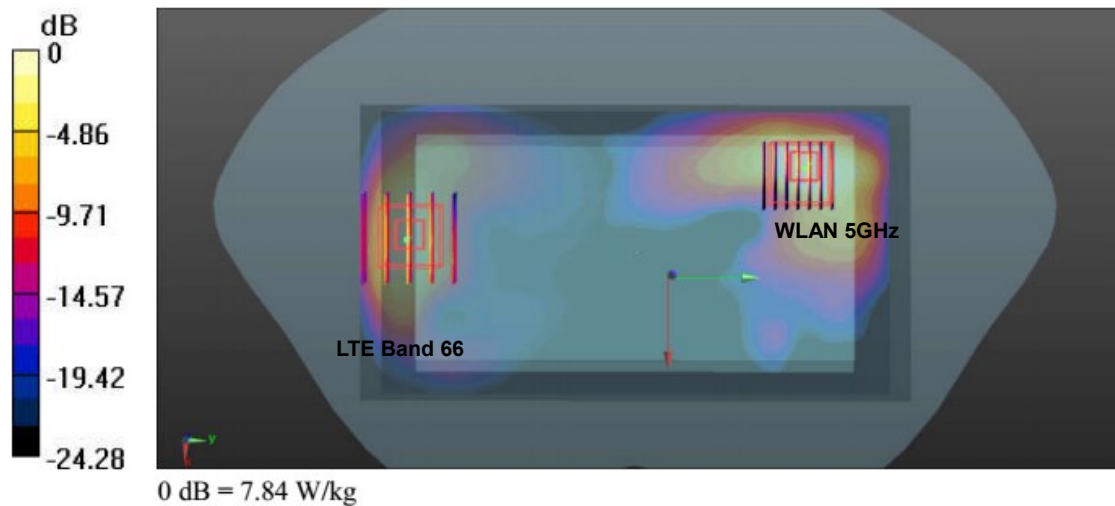
| Case #08 | Band          | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (m) |        |        | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|----------------|----------|-----------------------|--------|--------|------------------|-----------------------|---------------|------------------|
|          |               |          |                |          | X                     | Y      | Z      |                  |                       |               |                  |
|          | WCDMA Band II | Back     | 2.607          | 0        | -0.0325               | -0.091 | -0.206 | 152.8            | 5.76                  | 0.09          | Not required     |
|          | WLAN 5GHz     |          | 3.157          | 0        | -0.048                | 0.061  | -0.206 |                  |                       |               |                  |



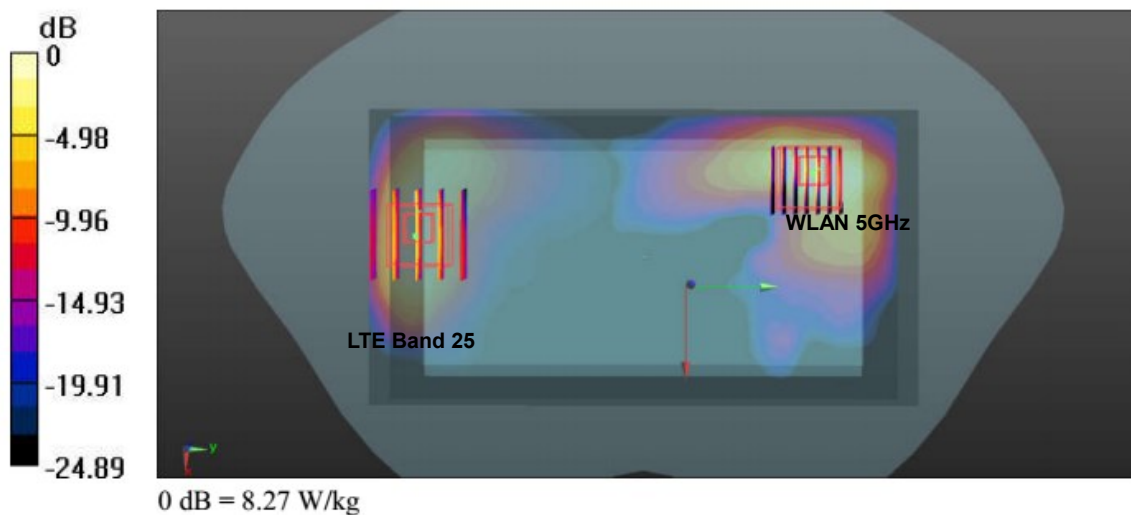
| Case #09 | Band         | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (m) |         |        | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|-----------------------|---------|--------|------------------|-----------------------|---------------|------------------|
|          |              |          |                |          | X                     | Y       | Z      |                  |                       |               |                  |
|          | CDMA2000 BC1 | Back     | 2.820          | 0        | -0.0265               | -0.0965 | -0.207 | 159.0            | 5.98                  | 0.09          | Not required     |
|          | WLAN 5GHz    |          | 3.157          | 0        | -0.048                | 0.061   | -0.206 |                  |                       |               |                  |



| Case #10 | Band        | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (m) |        |        | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|----------------|----------|-----------------------|--------|--------|------------------|-----------------------|---------------|------------------|
|          |             |          |                |          | X                     | Y      | Z      |                  |                       |               |                  |
|          | LTE Band 66 | Back     | 2.623          | 0        | -0.0215               | -0.081 | -0.207 | 144.5            | 5.78                  | 0.10          | Not required     |
|          | WLAN 5GHz   |          | 3.157          | 0        | -0.048                | 0.061  | -0.206 |                  |                       |               |                  |

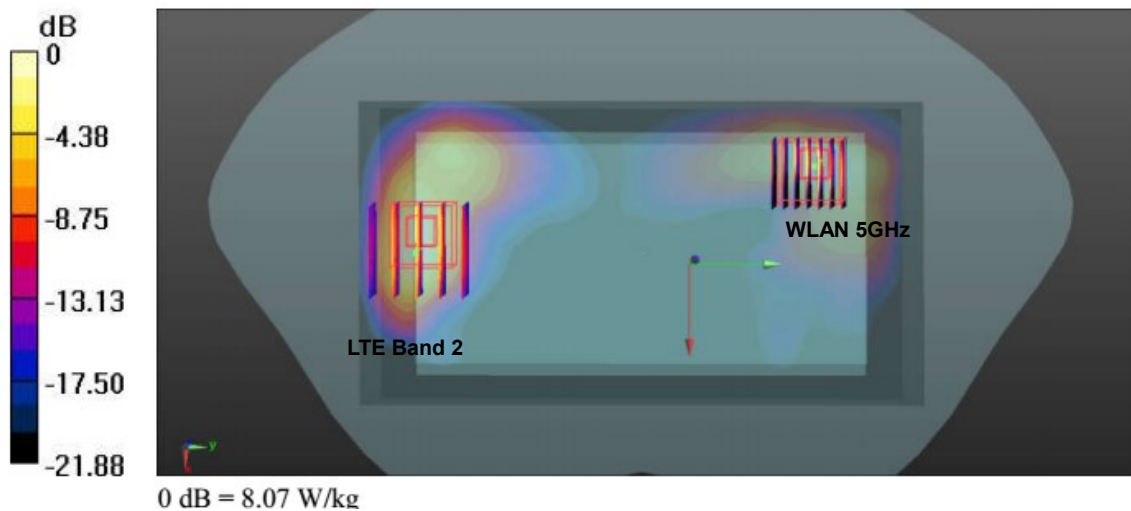


| Case #11 | Band        | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (m) |        |        | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|----------------|----------|-----------------------|--------|--------|------------------|-----------------------|---------------|------------------|
|          |             |          |                |          | X                     | Y      | Z      |                  |                       |               |                  |
|          | LTE Band 25 | Back     | 2.861          | 0        | -0.0325               | -0.081 | -0.206 | 142.8            | 6.02                  | 0.10          | Not required     |
|          | WLAN 5GHz   |          | 3.157          | 0        | -0.048                | 0.061  | -0.206 |                  |                       |               |                  |





| Case #12 | Band       | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (m) |        |        | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|----------|----------------|----------|-----------------------|--------|--------|------------------|-----------------------|---------------|------------------|
|          |            |          |                |          | X                     | Y      | Z      |                  |                       |               |                  |
|          | LTE Band 2 | Back     | 2.922          | 0        | -0.017                | -0.088 | -0.207 | 152.2            | 6.08                  | 0.10          | Not required     |
|          | WLAN 5GHz  |          | 3.157          | 0        | -0.048                | 0.061  | -0.206 |                  |                       |               |                  |



## **16. Supplemental Tuner Tests Results**

### **General Note:**

1. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states, the 96 tuner states for each WWAN antenna 1 and each WWAN antenna 2 are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 96 tuner states for each WWAN antenna 1 and each WWAN antenna 2.
3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.
4. The device supports both LTE B12 / B17 and B66 / B4. Since the supported frequency span for LTE B17, and B4 fall completely within the supported frequency span for LTE B12 and B66, and both bands have the same target power and both LTE bands share the same transmission path, therefore standalone SAR and antenna tuner single point SAR measurement was only assessed for LTE B12 and B66.

**16.1 Supplemental Head SAR Results****<WWAN Antenna 1>**

| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|---------------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|
|               |                        |                    |         |            |              |                  |         |                              | 0                                  | 15    | 30    | 45    | 60    | 75    | 90    |
| GSM850        | GPRS(3 Tx slots)       | 836.4              | 189     | N/A        | N/A          | Left Cheek       | 0 mm    | 0.167                        | 0.012                              | 0.014 | 0.001 | 0.021 | 0.01  | 0.001 | 0.024 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 1                                  | 16    | 31    | 46    | 61    | 76    | 91    |
| GSM1900       | GPRS(3 Tx slots)       | 1909.8             | 810     | N/A        | N/A          | Right Cheek      | 0 mm    | 0.054                        | 0.001                              | 0.005 | 0.042 | 0.002 | 0.006 | 0.048 | 0.043 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 2                                  | 17    | 32    | 47    | 62    | 77    | 92    |
| CDMA2000 BC0  | RC3+SO55               | 848.31             | 777     | N/A        | N/A          | Left Cheek       | 0 mm    | 0.2                          | 0.013                              | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 3                                  | 18    | 33    | 48    | 63    | 78    | 93    |
| CDMA2000 BC1  | RC3+SO55               | 1908.75            | 1175    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.142                        | 0.075                              | 0.069 | 0.065 | 0.066 | 0.081 | 0.091 | 0.056 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 4                                  | 19    | 34    | 49    | 64    | 79    | 94    |
| WCDMA Band V  | RMC 12.2Kbps           | 846.6              | 4233    | N/A        | N/A          | Left Cheek       | 0 mm    | 0.154                        | 0.011                              | 0.014 | 0.021 | 0.01  | 0.013 | 0.015 | 0.02  |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 5                                  | 20    | 35    | 50    | 65    | 80    | 95    |
| WCDMA Band IV | RMC 12.2Kbps           | 1712.4             | 1312    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.169                        | 0.012                              | 0.016 | 0.01  | 0.011 | 0.015 | 0.024 | 0.028 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 6                                  | 21    | 36    | 51    | 66    | 81    |       |
| WCDMA Band II | RMC 12.2Kbps           | 1907.6             | 9538    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.144                        | 0.016                              | 0.021 | 0.014 | 0.011 | 0.12  | 0.01  |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 7                                  | 22    | 37    | 52    | 67    | 82    |       |
| LTE Band 12   | 10M_QPSK               | 707.5              | 23095   | 1          | 0            | Left Cheek       | 0 mm    | 0.0988                       | 0.021                              | 0.078 | 0.012 | 0.052 | 0.08  | 0.061 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 8                                  | 23    | 38    | 53    | 68    | 83    |       |
| LTE Band 13   | 10M_QPSK               | 782                | 23230   | 1          | 49           | Left Cheek       | 0 mm    | 0.122                        | 0.02                               | 0.026 | 0.016 | 0.023 | 0.013 | 0.049 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 9                                  | 24    | 39    | 54    | 69    | 84    |       |
| LTE Band 26   | 15M_QPSK               | 836.5              | 26915   | 1          | 0            | Left Cheek       | 0 mm    | 0.152                        | 0.015                              | 0.012 | 0.036 | 0.021 | 0.025 | 0.01  |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 10                                 | 25    | 40    | 55    | 70    | 85    |       |
| LTE Band 5    | 10M_QPSK               | 836.5              | 20525   | 1          | 0            | Left Cheek       | 0 mm    | 0.145                        | 0.02                               | 0.015 | 0.018 | 0.01  | 0.016 | 0.011 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 11                                 | 26    | 41    | 56    | 71    | 86    |       |
| LTE Band 71   | 20M_QPSK               | 683                | 133322  | 1          | 0            | Left Cheek       | 0 mm    | 0.083                        | 0.084                              | 0     | 0.056 | 0.084 | 0.061 | 0     |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 12                                 | 27    | 42    | 57    | 72    | 87    |       |
| LTE Band 2    | 20M_QPSK               | 1900               | 19100   | 1          | 0            | Right Cheek      | 0 mm    | 0.136                        | 0.066                              | 0.095 | 0.093 | 0.066 | 0.044 | 0.081 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 13                                 | 28    | 43    | 58    | 73    | 88    |       |
| LTE Band 25   | 20M_QPSK               | 1905               | 26590   | 1          | 0            | Right Cheek      | 0 mm    | 0.105                        | 0.066                              | 0.087 | 0.079 | 0.068 | 0.063 | 0.085 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 14                                 | 29    | 44    | 59    | 74    | 89    |       |
| LTE Band 66   | 20M_QPSK               | 1720               | 132072  | 1          | 0            | Right Cheek      | 0 mm    | 0.122                        | 0.012                              | 0.01  | 0.012 | 0.013 | 0.01  | 0.014 |       |



## &lt;WWAN Antenna 2&gt;

| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|---------------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|
|               |                        |                    |         |            |              |                  |         |                              | 0                                  | 15    | 30    | 45    | 60    | 75    | 90    |
| GSM850        | GPRS(1 Tx slots)       | 848.8              | 251     | N/A        | N/A          | Right Cheek      | 0 mm    | 0.963                        | 0.561                              | 0.071 | 0.488 | 0.049 | 0.193 | 0.1   | 0.408 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 1                                  | 16    | 31    | 46    | 61    | 76    | 91    |
| GSM1900       | GPRS(3 Tx slots)       | 1880               | 661     | N/A        | N/A          | Right Cheek      | 0 mm    | 1.03                         | 0.189                              | 0.091 | 0.076 | 0.001 | 0.212 | 0.076 | 0.001 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 2                                  | 17    | 32    | 47    | 62    | 77    | 92    |
| CDMA 2000 BC0 | RC3+SO55               | 848.31             | 777     | N/A        | N/A          | Right Cheek      | 0 mm    | 1.12                         | 0.174                              | 0.079 | 0.3   | 0.058 | 0.603 | 0.253 | 0.116 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 3                                  | 18    | 33    | 48    | 63    | 78    | 93    |
| CDMA 2000 BC1 | RC3+SO55               | 1908.75            | 1175    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.862                        | 0.136                              | 0.052 | 0.059 | 0.119 | 0.074 | 0.055 | 0.001 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 4                                  | 19    | 34    | 49    | 64    | 79    | 94    |
| WCDMA Band V  | RMC 12.2Kbps           | 846.6              | 4233    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.93                         | 0.304                              | 0.116 | 0.218 | 0.73  | 0.524 | 0.348 | 0.043 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 5                                  | 20    | 35    | 50    | 65    | 80    | 95    |
| WCDMA Band IV | RMC 12.2Kbps           | 1732.6             | 1413    | N/A        | N/A          | Right Cheek      | 0 mm    | 1.15                         | 0.624                              | 0.525 | 0.483 | 0.582 | 0.878 | 0.536 | 0.336 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 6                                  | 21    | 36    | 51    | 66    | 81    |       |
| WCDMA Band II | RMC 12.2Kbps           | 1852.4             | 9262    | N/A        | N/A          | Right Cheek      | 0 mm    | 1.07                         | 0.364                              | 0.145 | 0.604 | 0.331 | 0.177 | 0.164 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 7                                  | 22    | 37    | 52    | 67    | 82    |       |
| LTE Band 12   | 10M_QPSK               | 707.5              | 23095   | 1          | 0            | Right Cheek      | 0 mm    | 0.958                        | 0.955                              | 0.165 | 0.001 | 0.352 | 0.833 | 0.203 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 8                                  | 23    | 38    | 53    | 68    | 83    |       |
| LTE Band 13   | 10M_QPSK               | 782                | 23230   | 1          | 49           | Right Cheek      | 0 mm    | 0.953                        | 0.548                              | 0.126 | 0.058 | 0.779 | 0.163 | 0.18  |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 9                                  | 24    | 39    | 54    | 69    | 84    |       |
| LTE Band 26   | 15M_QPSK               | 841.5              | 26965   | 1          | 0            | Right Cheek      | 0 mm    | 1.09                         | 0.337                              | 0.083 | 0.127 | 0.58  | 0.07  | 0.001 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 10                                 | 25    | 40    | 55    | 70    | 85    |       |
| LTE Band 5    | 10M_QPSK               | 836.5              | 20525   | 25         | 12           | Right Tilted     | 0 mm    | 1.09                         | 0.368                              | 0.159 | 0.671 | 0.37  | 0.049 | 0.001 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 11                                 | 26    | 41    | 56    | 71    | 86    |       |
| LTE Band 71   | 20M_QPSK               | 683                | 133322  | 1          | 0            | Right Tilted     | 0 mm    | 1.17                         | 0.749                              | 0.105 | 0.086 | 0.76  | 0.235 | 0     |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 12                                 | 27    | 42    | 57    | 72    | 87    |       |
| LTE Band 2    | 20M_QPSK               | 1880               | 18900   | 1          | 0            | Right Cheek      | 0 mm    | 1.08                         | 0.304                              | 0.102 | 0.063 | 0.093 | 0.088 | 0.101 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 13                                 | 28    | 43    | 58    | 73    | 88    |       |
| LTE Band 25   | 20M_QPSK               | 1880               | 26340   | 50         | 0            | Right Tilted     | 0 mm    | 1.16                         | 0.365                              | 0.135 | 0.042 | 0.084 | 0.075 | 0.056 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 14                                 | 29    | 44    | 59    | 74    | 89    |       |
| LTE Band 66   | 20M_QPSK               | 1745               | 132322  | 100        | 0            | Right Cheek      | 0 mm    | 1.06                         | 0.437                              | 0.23  | 0.183 | 0.196 | 0.222 | 0.303 |       |



## 16.2 Supplemental Body SAR Results

### <WWAN Antenna 1>

| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|---------------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|
|               |                        |                    |         |            |              |                  |         |                              | 0                                  | 15    | 30    | 45    | 60    | 75    | 90    |
| GSM850        | GPRS(3 Tx slots)       | 848.8              | 251     | N/A        | N/A          | Back             | 10 mm   | 0.508                        | 0.123                              | 0.012 | 0.059 | 0.11  | 0.015 | 0.01  | 0.048 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 1                                  | 16    | 31    | 46    | 61    | 76    | 91    |
| GSM1900       | GPRS(3 Tx slots)       | 1909.8             | 810     | N/A        | N/A          | Bottom Side      | 10 mm   | 1.12                         | 0.814                              | 0.897 | 0.858 | 0.768 | 0.864 | 1.03  | 0.833 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 2                                  | 17    | 32    | 47    | 62    | 77    | 92    |
| CDMA2000 BC0  | RTAP 153.6Kbps         | 777                | 848.31  | N/A        | N/A          | Back             | 10 mm   | 0.442                        | 0.001                              | 0.001 | 0.089 | 0.114 | 0.001 | 0.001 | 0.076 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 3                                  | 18    | 33    | 48    | 63    | 78    | 93    |
| CDMA2000 BC1  | RTAP 153.6Kbps         | 1880               | 600     | N/A        | N/A          | Bottom Side      | 10 mm   | 0.774                        | 0.476                              | 0.403 | 0.258 | 0.312 | 0.439 | 0.337 | 0.233 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 4                                  | 19    | 34    | 49    | 64    | 79    | 94    |
| WCDMA Band V  | RMC 12.2Kbps           | 846.6              | 4233    | N/A        | N/A          | Back             | 10 mm   | 0.38                         | 0.022                              | 0.063 | 0.104 | 0.011 | 0.01  | 0.061 | 0.101 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 5                                  | 20    | 35    | 50    | 65    | 80    | 95    |
| WCDMA Band IV | RMC 12.2Kbps           | 1752.6             | 1513    | N/A        | N/A          | Bottom Side      | 10 mm   | 1                            | 0.162                              | 0.163 | 0.083 | 0.103 | 0.133 | 0.081 | 0.087 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 6                                  | 21    | 36    | 51    | 66    | 81    |       |
| WCDMA Band II | RMC 12.2Kbps           | 1907.6             | 9538    | N/A        | N/A          | Bottom Side      | 10 mm   | 1.02                         | 0.781                              | 0.641 | 0.344 | 0.566 | 0.568 | 0.366 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 7                                  | 22    | 37    | 52    | 67    | 82    |       |
| LTE Band 12   | 10M_QPSK               | 707.5              | 23095   | 1          | 0            | Left Side        | 10 mm   | 0.265                        | 0.068                              | 0.142 | 0.045 | 0.09  | 0.144 | 0.116 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 8                                  | 23    | 38    | 53    | 68    | 83    |       |
| LTE Band 13   | 10M_QPSK               | 782                | 23230   | 1          | 49           | Back             | 10 mm   | 0.358                        | 0.063                              | 0.113 | 0.012 | 0.015 | 0.079 | 0.141 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 9                                  | 24    | 39    | 54    | 69    | 84    |       |
| LTE Band 26   | 15M_QPSK               | 841.5              | 26965   | 1          | 0            | Back             | 10 mm   | 0.382                        | 0.078                              | 0.016 | 0.21  | 0.04  | 0.1   | 0.023 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 10                                 | 25    | 40    | 55    | 70    | 85    |       |
| LTE Band 5    | 10M_QPSK               | 836.5              | 20525   | 1          | 0            | Back             | 10 mm   | 0.432                        | 0.118                              | 0.012 | 0.015 | 0.065 | 0.116 | 0.023 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 11                                 | 26    | 41    | 56    | 71    | 86    |       |
| LTE Band 71   | 20M_QPSK               | 683                | 133322  | 1          | 0            | Back             | 10 mm   | 0.225                        | 0.201                              | 0.053 | 0.138 | 0.202 | 0.158 | 0     |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 12                                 | 27    | 42    | 57    | 72    | 87    |       |
| LTE Band 2    | 20M_QPSK               | 1900               | 19100   | 100        | 0            | Bottom Side      | 10 mm   | 1.16                         | 0.983                              | 1.15  | 1.13  | 0.834 | 0.612 | 1.03  |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 13                                 | 28    | 43    | 58    | 73    | 88    |       |
| LTE Band 25   | 20M_QPSK               | 1905               | 26590   | 100        | 0            | Bottom Side      | 10 mm   | 1.08                         | 1.07                               | 1.01  | 1.06  | 0.9   | 0.819 | 1.02  |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 14                                 | 29    | 44    | 59    | 74    | 89    |       |
| LTE Band 66   | 20M_QPSK               | 1745               | 132322  | 50         | 0            | Bottom Side      | 10 mm   | 0.952                        | 0.148                              | 0.124 | 0.135 | 0.102 | 0.072 | 0.097 |       |



## &lt;WWAN Antenna 2&gt;

| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|---------------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|
|               |                        |                    |         |            |              |                  |         |                              | 0                                  | 15    | 30    | 45    | 60    | 75    | 90    |
| GSM850        | GPRS(3 Tx slots)       | 824.2              | 128     | N/A        | N/A          | Back             | 10 mm   | 0.538                        | 0.169                              | 0.049 | 0.276 | 0.01  | 0.01  | 0.046 | 0.268 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 1                                  | 16    | 31    | 46    | 61    | 76    | 91    |
| GSM1900       | GPRS(3 Tx slots)       | 1850.2             | 512     | N/A        | N/A          | Top Side         | 10 mm   | 0.379                        | 0.056                              | 0.001 | 0.001 | 0.001 | 0.068 | 0.073 | 0.067 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 2                                  | 17    | 32    | 47    | 62    | 77    | 92    |
| CDMA2000 BC0  | RTAP 153.6Kbps         | 777                | 848.31  | N/A        | N/A          | Back             | 10 mm   | 0.645                        | 0.084                              | 0.001 | 0.127 | 0.001 | 0.324 | 0.121 | 0.057 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 3                                  | 18    | 33    | 48    | 63    | 78    | 93    |
| CDMA2000 BC1  | RTAP 153.6Kbps         | 1851.25            | 25      | N/A        | N/A          | Top Side         | 10 mm   | 0.852                        | 0.138                              | 0.072 | 0.068 | 0.112 | 0.13  | 0.066 | 0.001 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 4                                  | 19    | 34    | 49    | 64    | 79    | 94    |
| WCDMA Band V  | RMC 12.2Kbps           | 846.6              | 4233    | N/A        | N/A          | Back             | 10 mm   | 0.586                        | 0.102                              | 0.043 | 0.079 | 0.295 | 0.182 | 0.123 | 0.001 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 5                                  | 20    | 35    | 50    | 65    | 80    | 95    |
| WCDMA Band IV | RMC 12.2Kbps           | 1732.6             | 1413    | N/A        | N/A          | Top Side         | 10 mm   | 0.909                        | 0.239                              | 0.216 | 0.196 | 0.22  | 0.368 | 0.219 | 0.144 |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 6                                  | 21    | 36    | 51    | 66    | 81    |       |
| WCDMA Band II | RMC 12.2Kbps           | 1880               | 9400    | N/A        | N/A          | Top Side         | 10 mm   | 0.846                        | 0.108                              | 0.041 | 0.199 | 0.104 | 0.046 | 0.048 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 7                                  | 22    | 37    | 52    | 67    | 82    |       |
| LTE Band 12   | 10M_QPSK               | 707.5              | 23095   | 1          | 0            | Back             | 10 mm   | 0.482                        | 0.395                              | 0.065 | 0.001 | 0.131 | 0.334 | 0.08  |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 8                                  | 23    | 38    | 53    | 68    | 83    |       |
| LTE Band 13   | 10M_QPSK               | 782                | 23230   | 1          | 49           | Back             | 10 mm   | 0.537                        | 0.234                              | 0.052 | 0.001 | 0.311 | 0.071 | 0.062 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 9                                  | 24    | 39    | 54    | 69    | 84    |       |
| LTE Band 26   | 15M_QPSK               | 821.5              | 26765   | 1          | 0            | Back             | 10 mm   | 0.523                        | 0.148                              | 0.001 | 0.057 | 0.251 | 0.001 | 0.001 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 10                                 | 25    | 40    | 55    | 70    | 85    |       |
| LTE Band 5    | 10M_QPSK               | 836.5              | 20525   | 1          | 0            | Back             | 10 mm   | 0.581                        | 0.153                              | 0.06  | 0.27  | 0.197 | 0.001 | 0.001 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 11                                 | 26    | 41    | 56    | 71    | 86    |       |
| LTE Band 71   | 20M_QPSK               | 683                | 133322  | 1          | 0            | Back             | 10 mm   | 0.5                          | 0.268                              | 0     | 0     | 0.274 | 0.094 | 0     |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 12                                 | 27    | 42    | 57    | 72    | 87    |       |
| LTE Band 2    | 20M_QPSK               | 1880               | 18900   | 1          | 0            | Top Side         | 10 mm   | 0.733                        | 0.208                              | 0.052 | 0.001 | 0.055 | 0.048 | 0.054 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 13                                 | 28    | 43    | 58    | 73    | 88    |       |
| LTE Band 25   | 20M_QPSK               | 1905               | 26590   | 1          | 0            | Back             | 10 mm   | 0.689                        | 0.091                              | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |       |
| Mode          | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
|               |                        |                    |         |            |              |                  |         |                              | 14                                 | 29    | 44    | 59    | 74    | 89    |       |
| LTE Band 66   | 20M_QPSK               | 1745               | 132322  | 1          | 0            | Back             | 10 mm   | 0.744                        | 0.189                              | 0.108 | 0.095 | 0.089 | 0.1   | 0.16  |       |

Test Engineer : Johnny Chen



## **17. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is  $< 1.5$  W/kg and the measured 10-g SAR within a frequency band is  $< 3.75$  W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.



## **18. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.





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## ***Appendix A. Plots of System Performance Check***

The plots are shown as follows.

## System Check\_Head\_750MHz

### DUT: D750V3-SN:1099

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_180802 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 40.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.4 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(10.06, 10.06, 10.06); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.54 W/kg

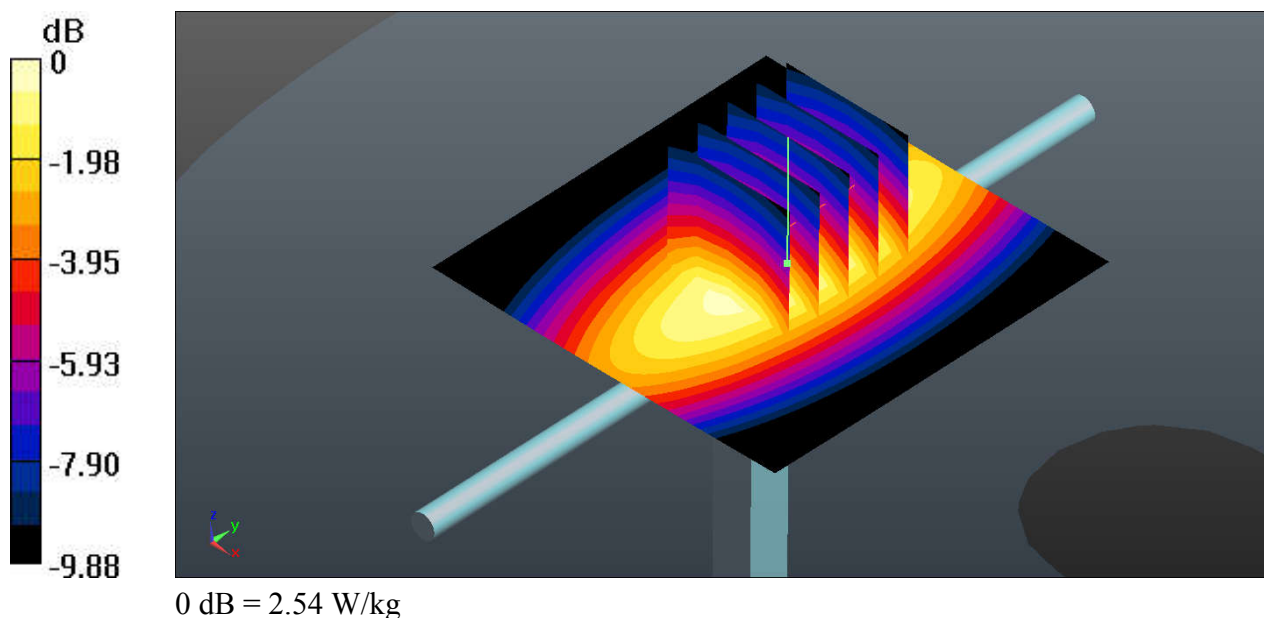
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.97 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.08 W/kg

**SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.42 W/kg**

Maximum value of SAR (measured) = 2.65 W/kg



## System Check\_Head\_835MHz

### DUT: D835V2-SN:4d162

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_180803 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 39.608$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.66, 9.66, 9.66); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 3.10 W/kg

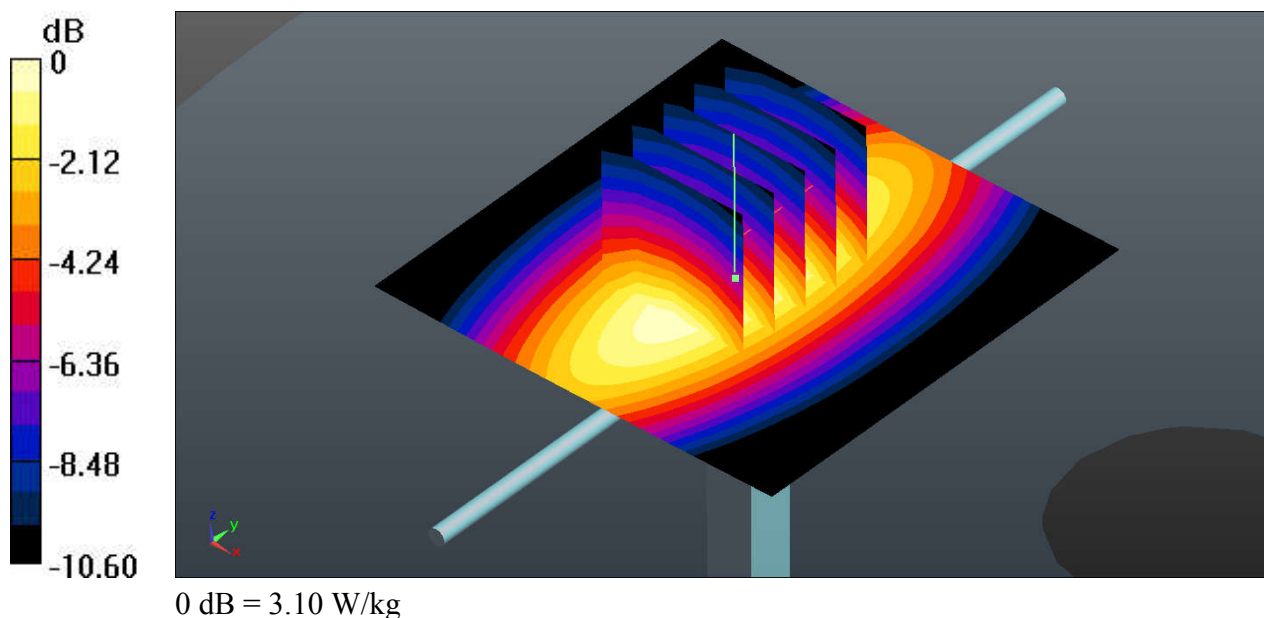
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.42 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.54 W/kg

**SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.6 W/kg**

Maximum value of SAR (measured) = 3.05 W/kg



## System Check\_Head\_1750MHz

**DUT: D1750V2-SN:1069**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL\_1750\_180805 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.404$  S/m;  $\epsilon_r = 40.106$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.37, 8.37, 8.37); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.1 W/kg

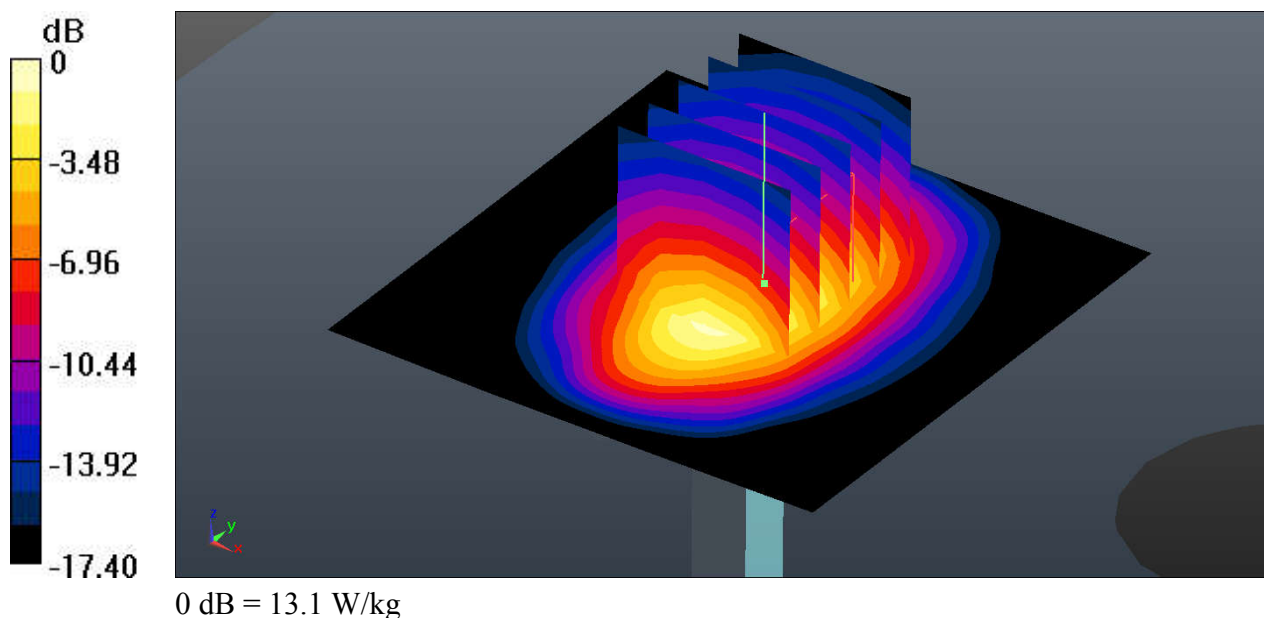
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.58 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.1 W/kg

**SAR(1 g) = 9.07 W/kg; SAR(10 g) = 4.89 W/kg**

Maximum value of SAR (measured) = 12.5 W/kg



## System Check\_Head\_1900MHz

**DUT: D1900V2-SN:5d182**

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_180810 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 40.038$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.13, 8.13, 8.13); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

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

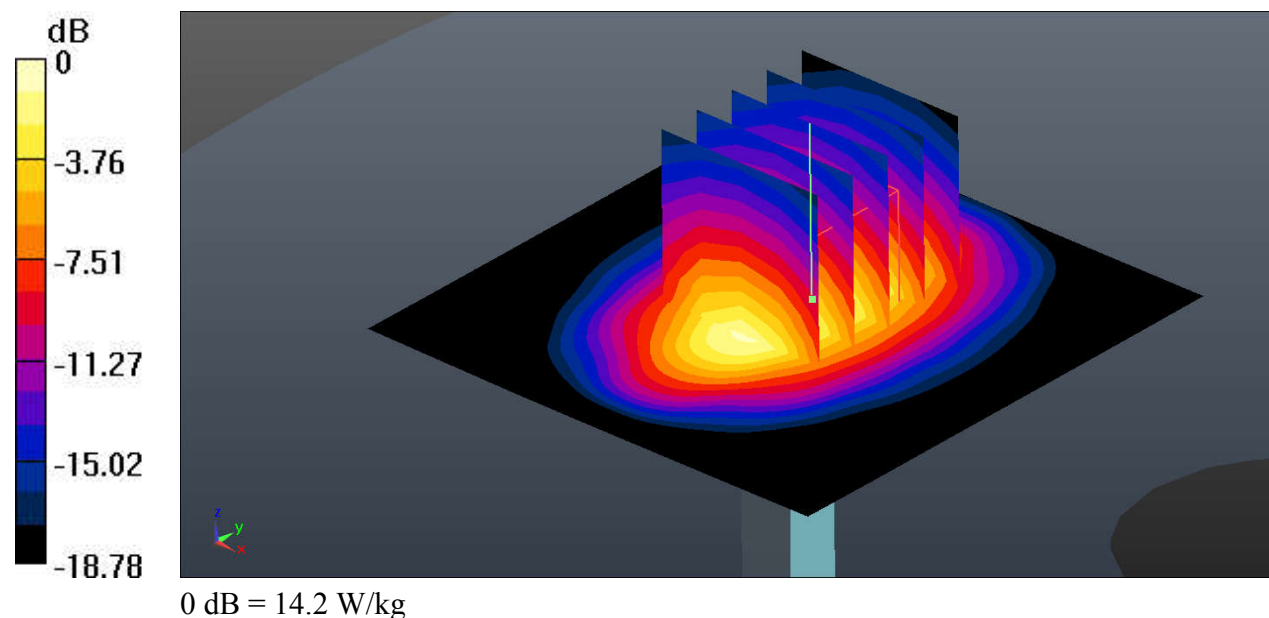
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.01 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.5 W/kg

**SAR(1 g) = 9.54 W/kg; SAR(10 g) = 4.94 W/kg**

Maximum value of SAR (measured) = 13.5 W/kg



## System Check\_Head\_2300MHz

### DUT: D2300V2-SN:1056

Communication System: UID 0, CW ; Frequency: 2300 MHz;Duty Cycle: 1:1

Medium: HSL\_2300\_180807 Medium parameters used:  $f = 2300$  MHz;  $\sigma = 1.67$  S/m;  $\epsilon_r = 38.754$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.4 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.38, 8.38, 8.38); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 16.0 W/kg

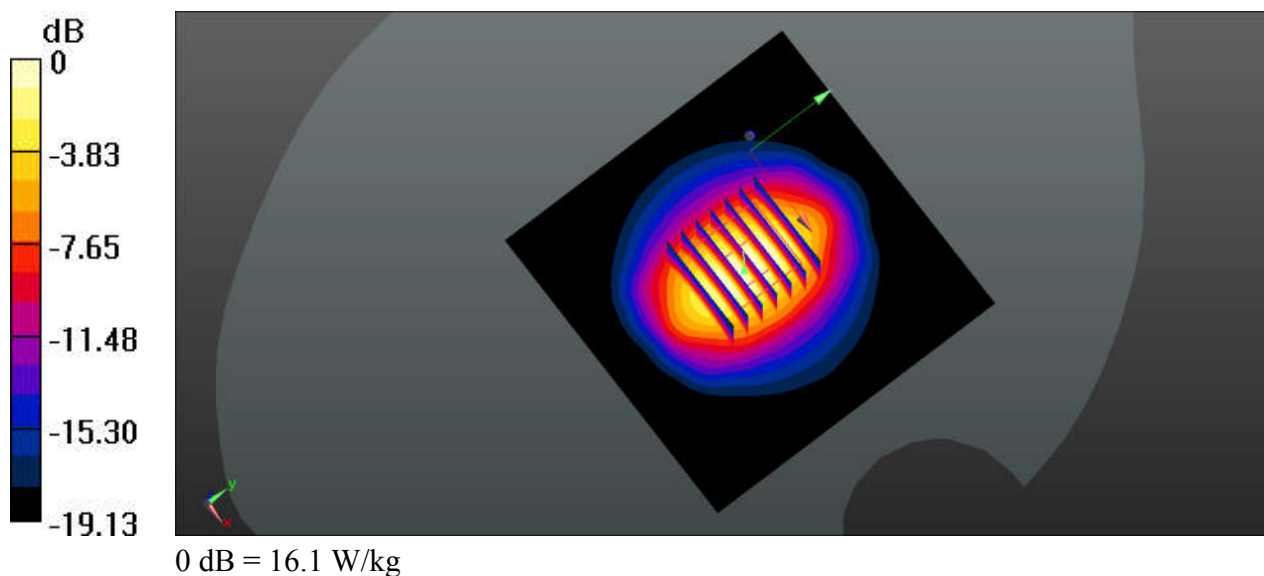
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.99 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 20.8 W/kg

**SAR(1 g) = 10.9 W/kg; SAR(10 g) = 5.38 W/kg**

Maximum value of SAR (measured) = 16.1 W/kg



## System Check\_Head\_2450MHz

### DUT: D2450V2-SN:924

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL\_2450\_180812 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.822$  S/m;  $\epsilon_r = 37.986$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.5 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(7.92, 7.92, 7.92); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (71x81x1):** Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 19.1 W/kg

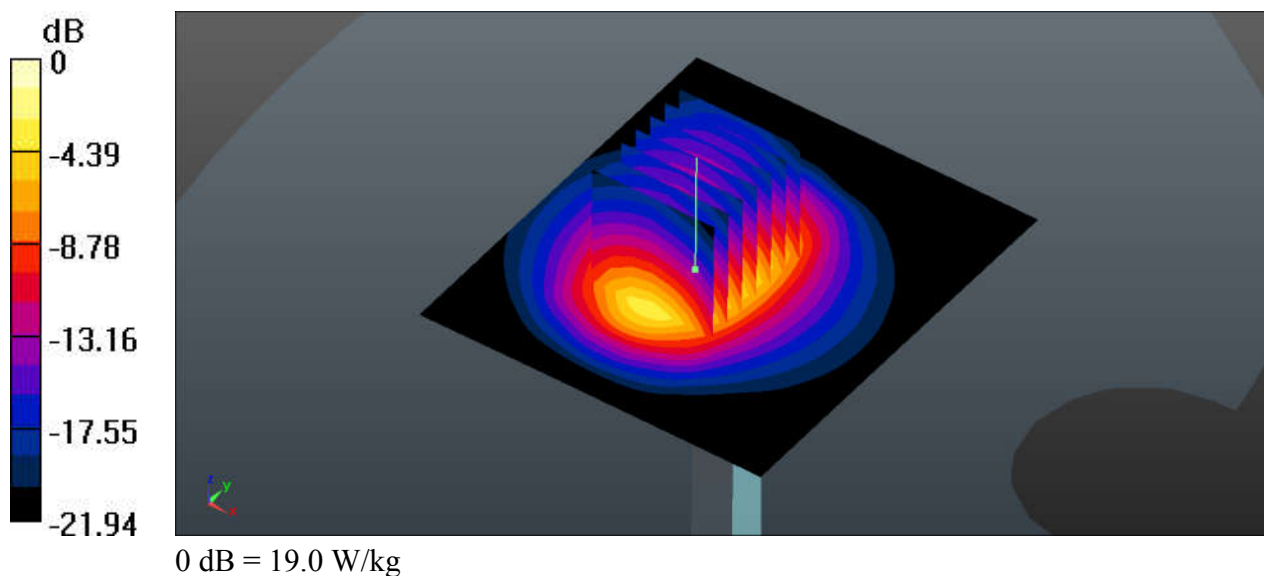
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 75.23 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 25.8 W/kg

**SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.77 W/kg**

Maximum value of SAR (measured) = 19.0 W/kg



**System Check\_Head\_2450MHz****DUT: D2450V2 - SN:840**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL\_2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.848$  S/m;  $\epsilon_r = 39.012$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.8 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(7.49, 7.49, 7.49); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.3 W/kg

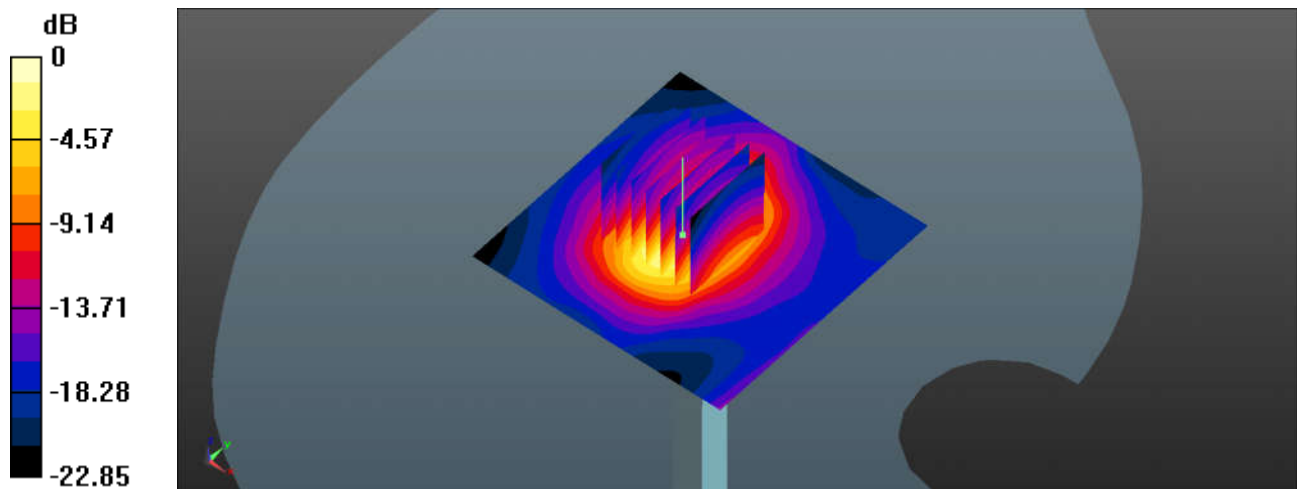
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.13 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 23.5 W/kg

**SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.32 W/kg**

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg



## System Check\_Head\_2600MHz

### DUT: D2600V2-SN:1070

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL\_2600\_180806 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.056$  S/m;  $\epsilon_r = 37.284$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(7.82, 7.82, 7.82); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (71x71x1):** Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 22.8 W/kg

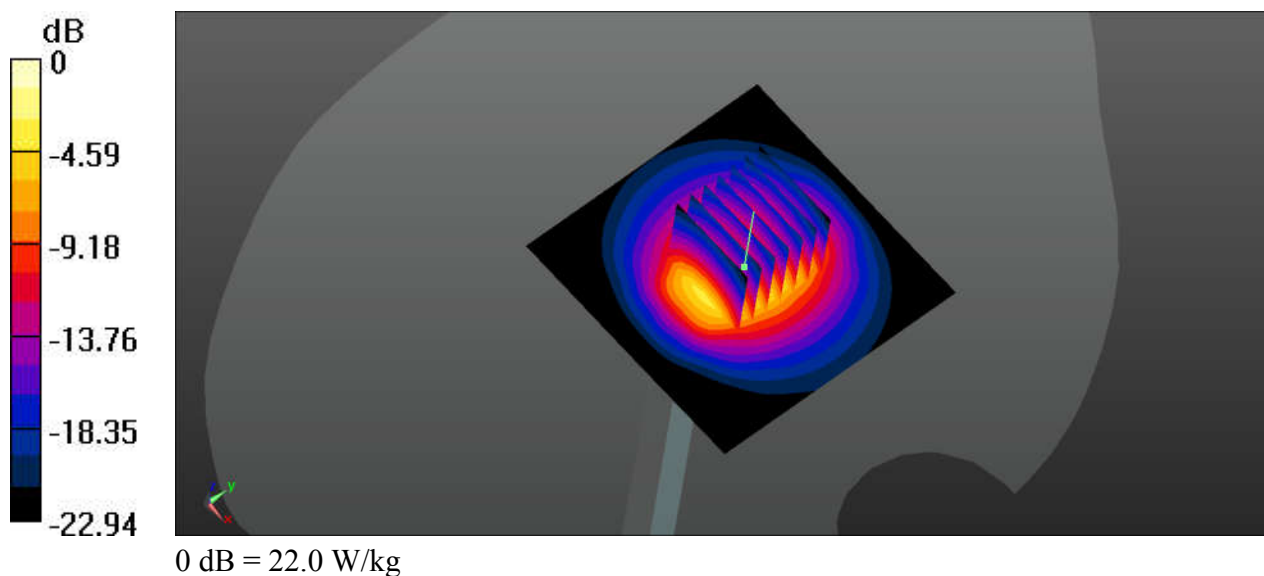
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.7 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 29.7 W/kg

**SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.27 W/kg**

Maximum value of SAR (measured) = 22.0 W/kg



## System Check\_Head\_5250MHz

**DUT: D5GHzV2-SN:1167**

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL\_5250\_180823 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.580$  S/m;  $\epsilon_r = 36.661$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(5.77, 5.77, 5.77); Calibrated: 2018.01.11;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 18.5 W/kg

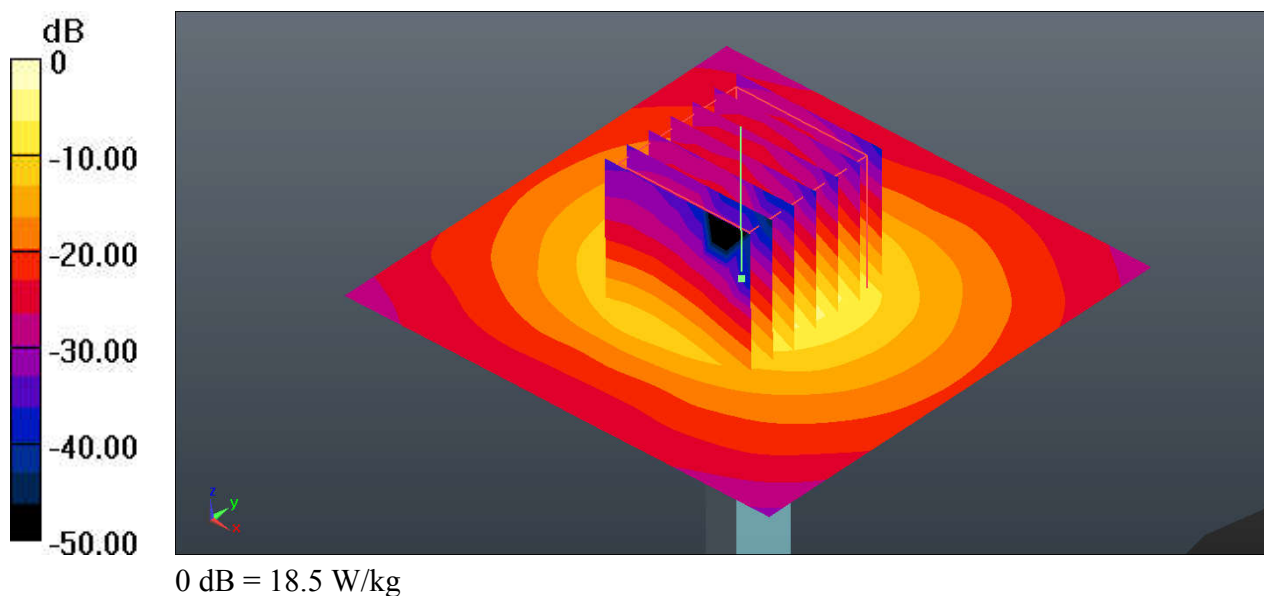
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 57.65 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 29.8 W/kg

**SAR(1 g) = 7.37 W/kg; SAR(10 g) = 2.04 W/kg**

Maximum value of SAR (measured) = 17.8 W/kg



## System Check\_Head\_5600MHz

### DUT: D5GHzV2-SN:1006

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL\_5000 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.207$  S/m;  $\epsilon_r = 36.587$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(4.59, 4.59, 4.59); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

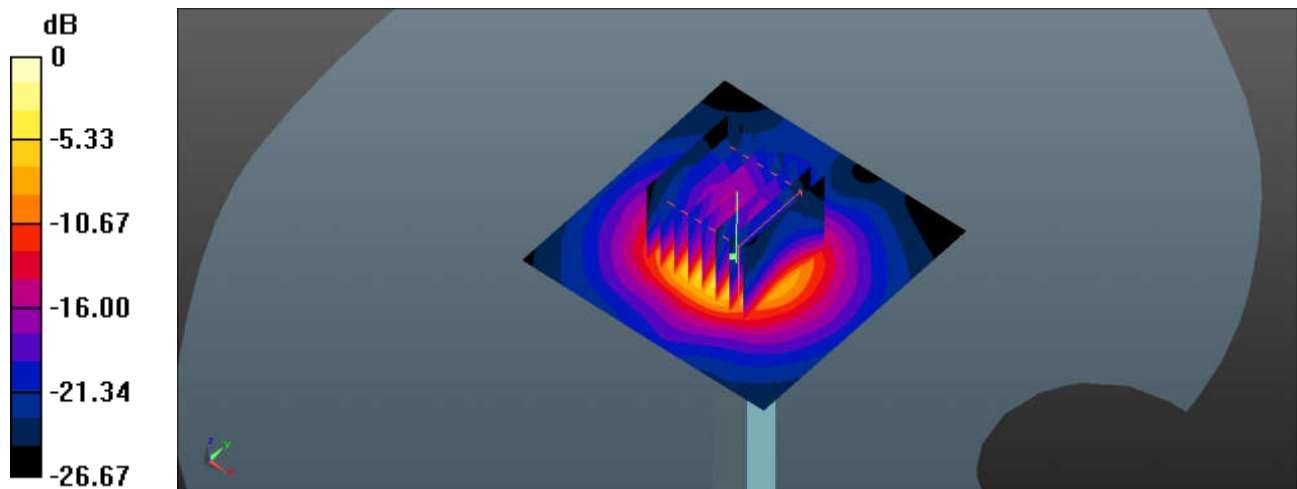
**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 35.78 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 26.2 W/kg

**SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.43 W/kg**

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

## System Check\_Head\_5750MHz

### DUT: D5GHzV2-SN:1006

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL\_5000 Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.361$  S/m;  $\epsilon_r = 36.365$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 10.2 W/kg

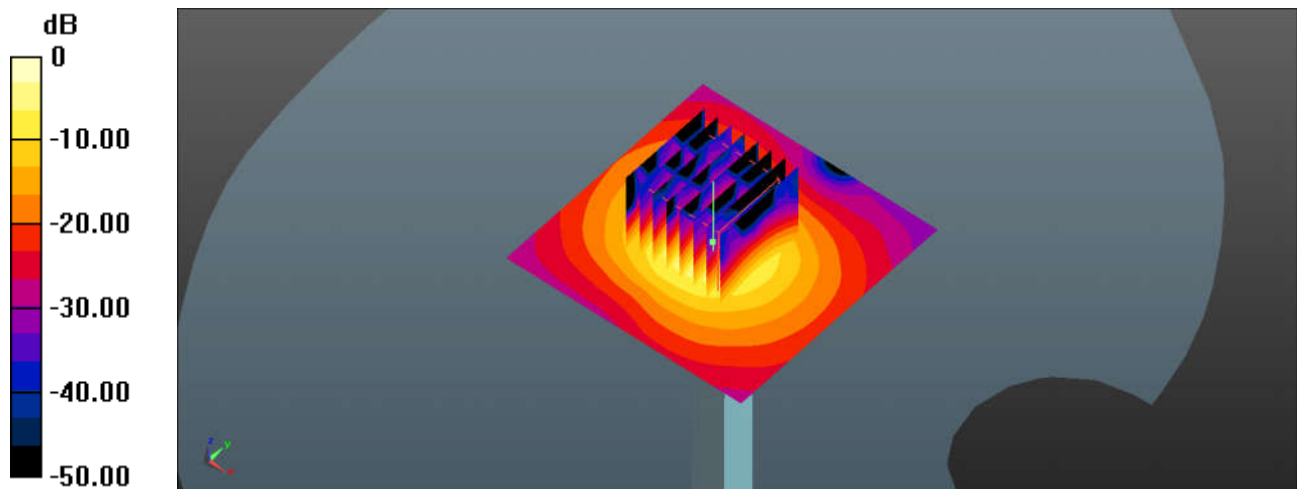
**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 27.73 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 19.7 W/kg

**SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.15 W/kg**

Maximum value of SAR (measured) = 10.1 W/kg



0 dB = 10.2 W/kg = 10.09 dBW/kg

## System Check\_Body\_750MHz

### DUT: D750V3-SN:1099

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: MSL\_750\_180731 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 54.642$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.7, 9.7, 9.7); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.61 W/kg

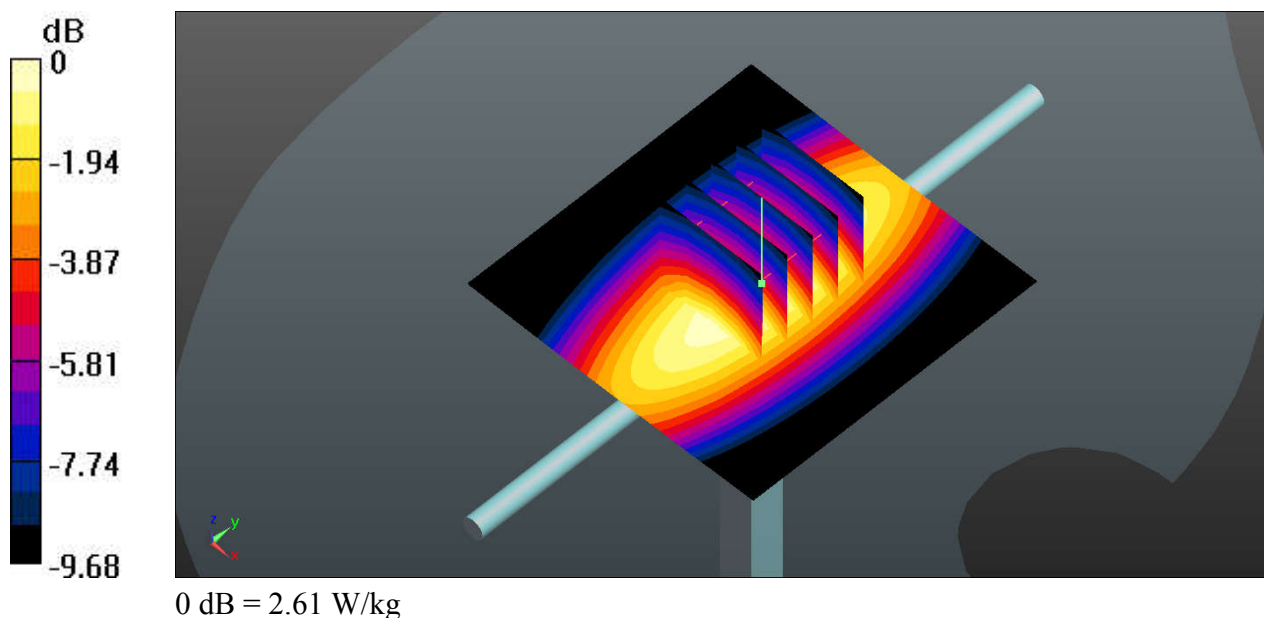
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.23 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.98 W/kg

**SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.39 W/kg**

Maximum value of SAR (measured) = 2.58 W/kg



## System Check\_Body\_835MHz

**DUT: D835V2-SN:4d162**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL\_835\_180730 Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.011$  S/m;  $\epsilon_r = 56.243$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.49, 9.49, 9.49); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 3.10 W/kg

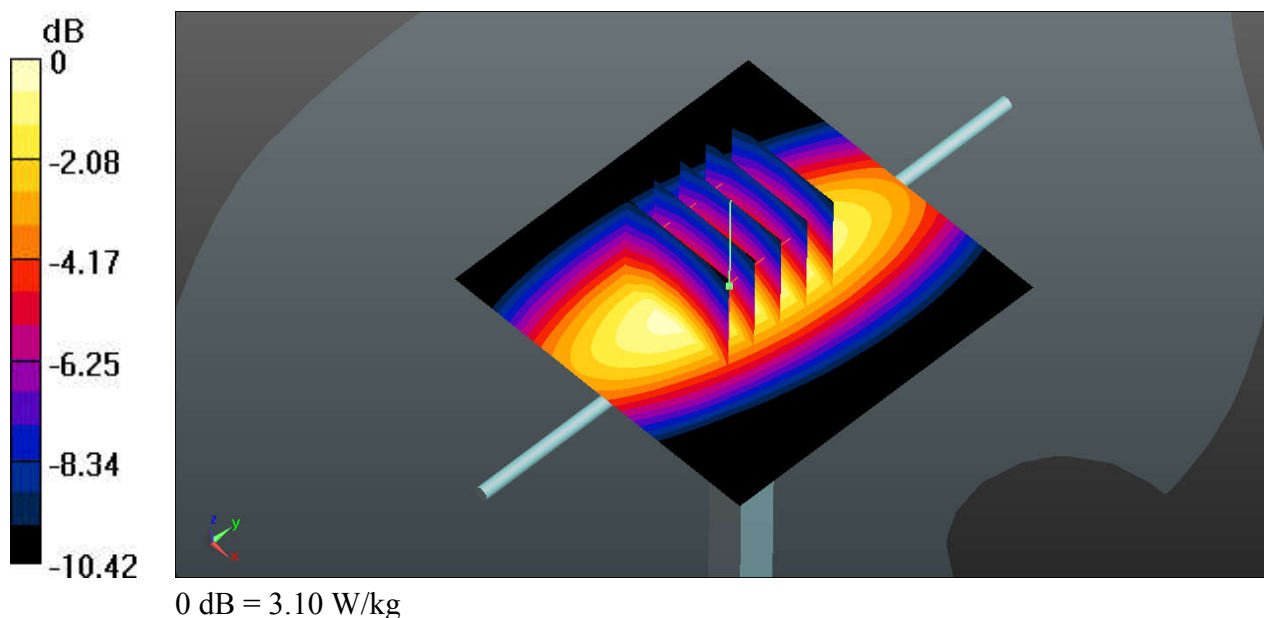
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.77 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.57 W/kg

**SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.64 W/kg**

Maximum value of SAR (measured) = 3.09 W/kg



## System Check\_Body\_1750MHz

### DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL\_1750\_180801 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.527$  S/m;  $\epsilon_r = 52.035$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.61, 8.61, 8.61); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.0 W/kg

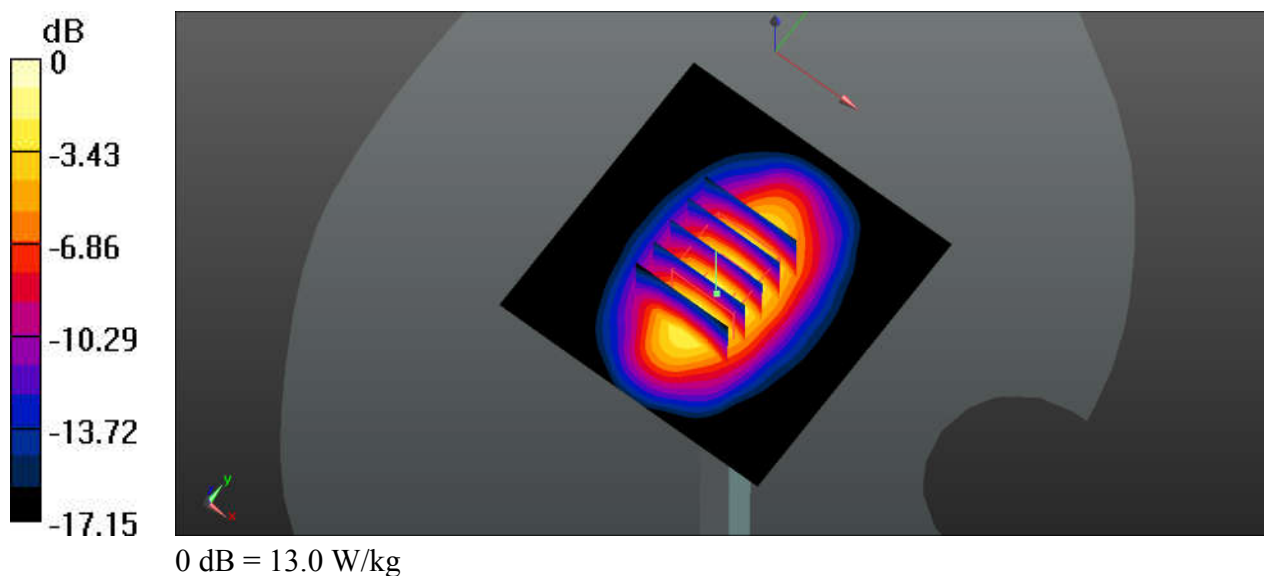
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.16 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 15.9 W/kg

**SAR(1 g) = 9.1 W/kg; SAR(10 g) = 4.86 W/kg**

Maximum value of SAR (measured) = 12.5 W/kg





## System Check\_Body\_1900MHz

### DUT: D1900V2-SN:5d182

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_180731 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.531$  S/m;  $\epsilon_r = 54.671$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.27, 8.27, 8.27); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 14.4 W/kg

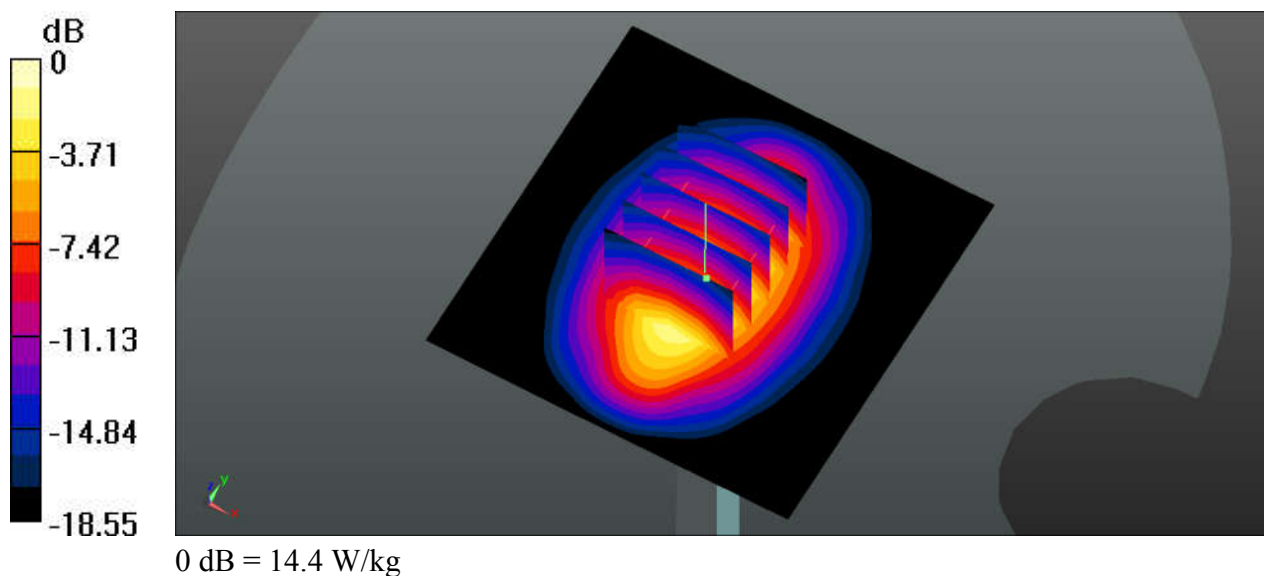
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.67 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 10 W/kg; SAR(10 g) = 5.14 W/kg**

Maximum value of SAR (measured) = 14.1 W/kg





## System Check\_Body\_2300MHz

### DUT: D2300V2-SN:1056

Communication System: UID 0, CW ; Frequency: 2300 MHz;Duty Cycle: 1:1

Medium: MSL\_2300\_180802 Medium parameters used:  $f = 2300$  MHz;  $\sigma = 1.764$  S/m;  $\epsilon_r = 53.765$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.14, 8.14, 8.14); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 17.0 W/kg

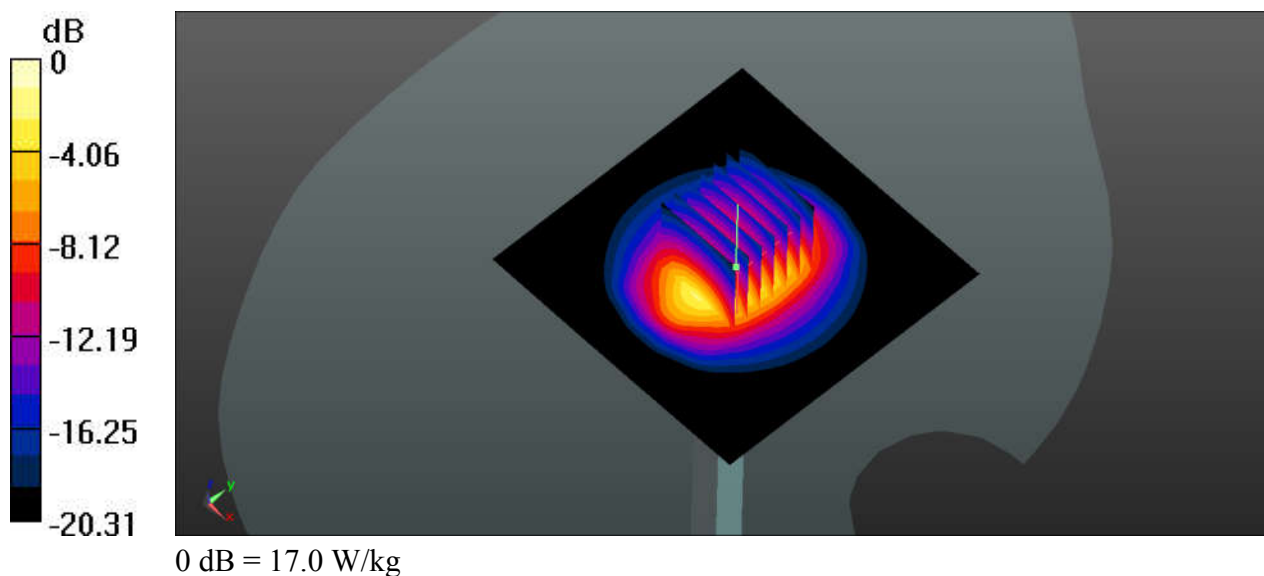
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.99 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 23.1 W/kg

**SAR(1 g) = 11.7 W/kg; SAR(10 g) = 5.6 W/kg**

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



**System Check\_Body\_2450MHz****DUT: D2450V2 - SN:840**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL\_2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.021$  S/m;  $\epsilon_r = 53.033$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3954; ConvF(7.53, 7.53, 7.53); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.2 W/kg

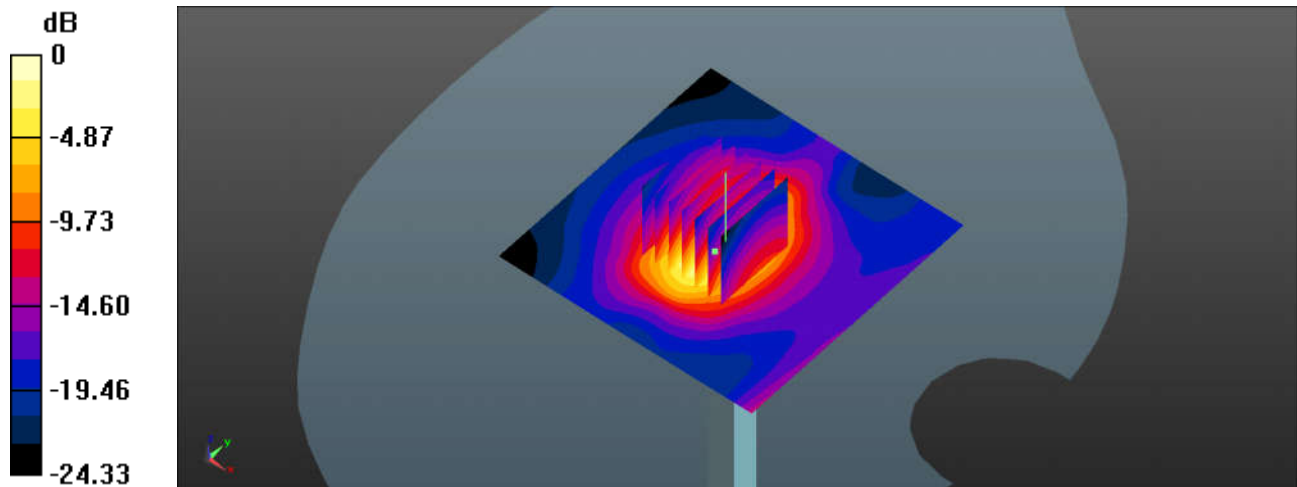
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.02 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 21.3 W/kg

**SAR(1 g) = 12.7 W/kg; SAR(10 g) = 6.49 W/kg**

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



0 dB = 18.2 W/kg = 12.60 dBW/kg

## System Check\_Body\_2450MHz

### DUT: D2450V2-SN:924

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL\_2450\_180819 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.977$  S/m;  $\epsilon_r = 51.617$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 22.5 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8, 8, 8); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 19.5 W/kg

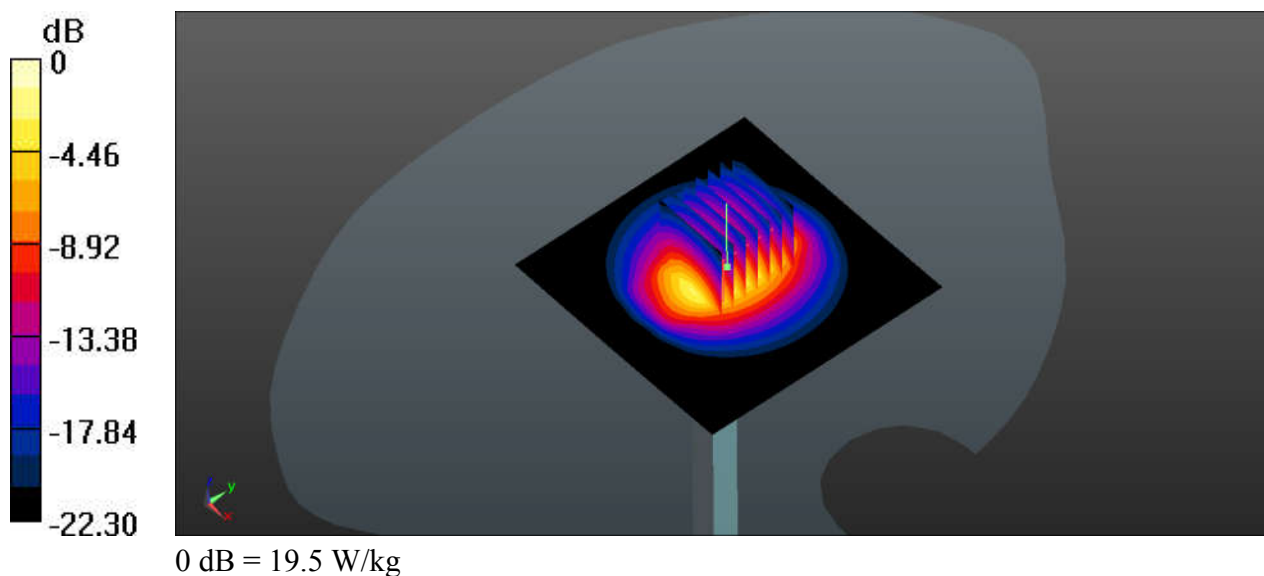
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.16 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 26.7 W/kg

**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.86 W/kg**

Maximum value of SAR (measured) = 19.8 W/kg



## System Check\_Body\_2600MHz

### DUT: D2600V2-SN:1070

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: MSL\_2600\_180802 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.192$  S/m;  $\epsilon_r = 50.732$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(7.84, 7.84, 7.84); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x71x1):** Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 21.3 W/kg

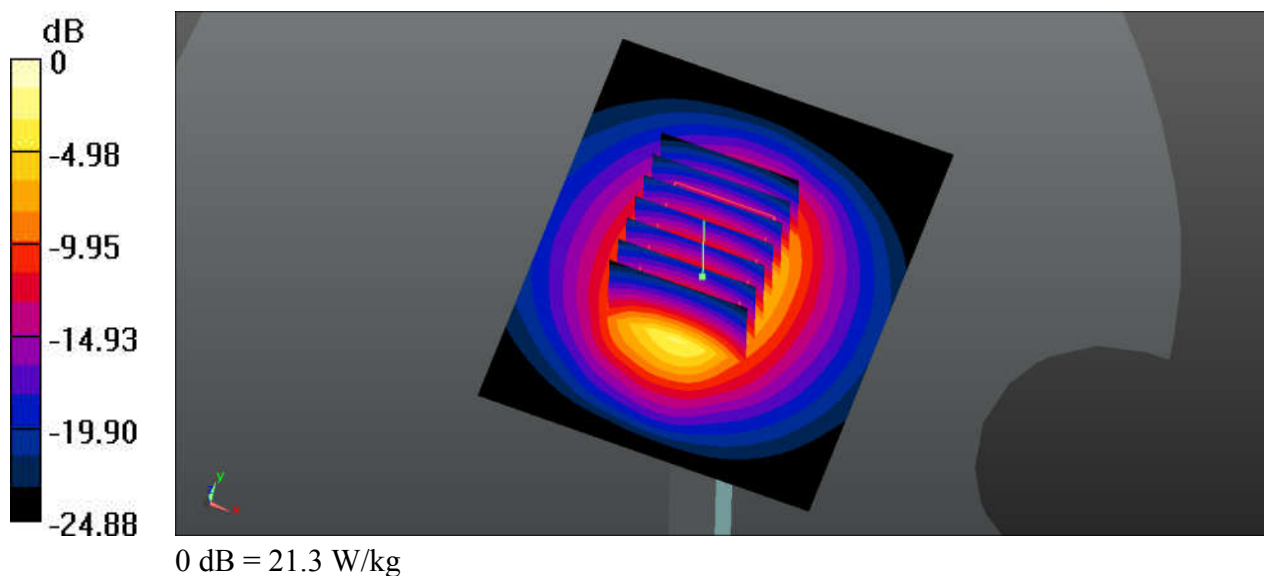
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.72 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 28.6 W/kg

**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.56 W/kg**

Maximum value of SAR (measured) = 20.4 W/kg



## System Check\_Body\_5250MHz

### DUT: D5GHzV2-SN:1167-5250

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: MSL\_5250\_180821 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 5.359$  S/m;  $\epsilon_r = 48.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(5.2, 5.2, 5.2); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 18.6 W/kg

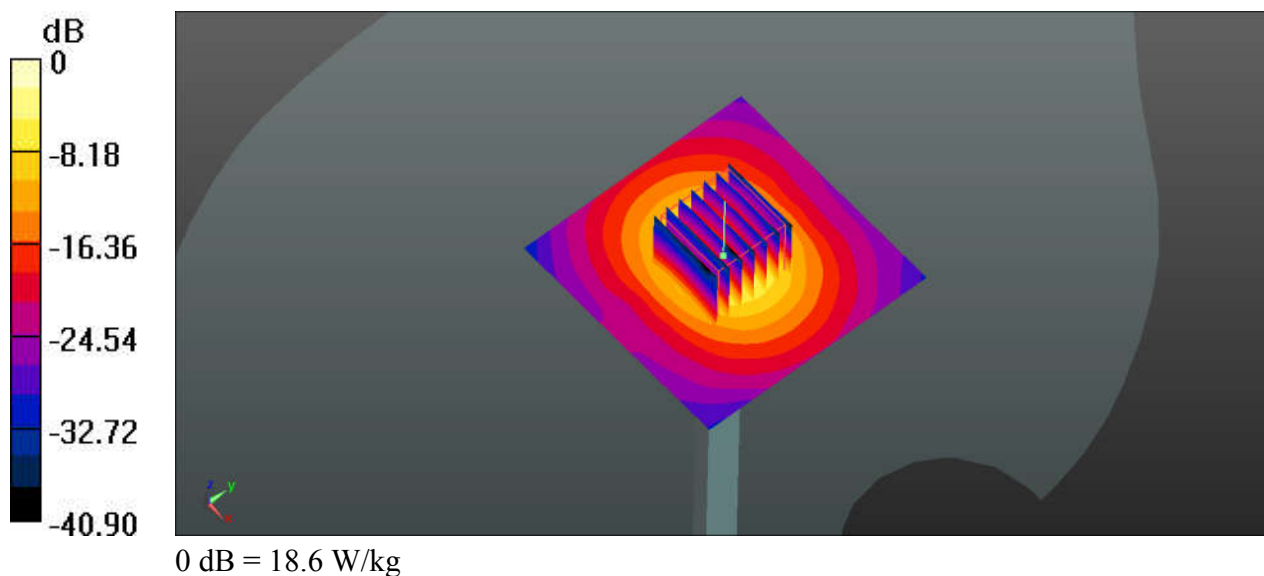
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.76 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 31.2 W/kg

**SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.18 W/kg**

Maximum value of SAR (measured) = 19.1 W/kg



## System Check\_Body\_5600MHz

### DUT: D5GHzV2-SN:1167-5600

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: MSL\_5600\_180821 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.817$  S/m;  $\epsilon_r = 47.504$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(4.3, 4.3, 4.3); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 20.1 W/kg

**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.19 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 34.5 W/kg

**SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.2 W/kg**

Maximum value of SAR (measured) = 20.3 W/kg

