| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.8 | 802.11a | 2TX CDD | CH 149 | 5745 | 6M | 17.50 | Not Required | No | 13 |
| | | | CH 153 | 5765 | | 17.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 17.50 | Not Required | No | |
| | | | CH 161 | 5805 | | 17.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 17.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 149 | 5745 | 6.5M | 17.50 | Not Required | No | |
| | | | CH 153 | 5765 | | 17.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 17.50 | Not Required | No | |
| | | | CH 161 | 5805 | | 17.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 17.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 151 | 5755 | 13.5M | 17.50 | Not Required | No | |
| | | | CH 159 | 5795 | | 17.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 149 | 5745 | 6.5M | 17.50 | Not Required | No | |
| | | | CH 153 | 5765 | | 17.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 17.50 | Not Required | No | |
| | | | CH 161 | 5805 | | 17.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 17.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 151 | 5755 | 13.5M | 17.50 | Not Required | No | |
| | | | CH 159 | 5795 | | 17.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 155 | 5775 | 29.3M | 17.50 | 16.15 | Yes | |

Table 113: Conducted power measurement results of WiFi 5G(Power Setting Level 13).

Note: 1) The Average conducted power of WiFi is measured with RMS detector.

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.2 | 802.11a | 2TX CDD | CH 36 | 5180 | 6M | 16.50 | Not Required | No | 12 |
| | | | CH 40 | 5200 | | 16.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 16.50 | Not Required | No | |
| | | | CH 48 | 5240 | | 16.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 36 | 5180 | 6.5M | 16.50 | Not Required | No | |
| | | | CH 40 | 5200 | | 16.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 16.50 | Not Required | No | |
| | | | CH 48 | 5240 | | 16.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 38 | 5190 | 13.5M | 16.50 | Not Required | No | |
| | | | CH 46 | 5230 | | 16.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 36 | 5180 | 6.5M | 16.50 | Not Required | No | |
| | | | CH 40 | 5200 | | 16.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 16.50 | Not Required | No | |
| | | | CH 48 | 5240 | | 16.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 38 | 5190 | 13.5M | 16.50 | Not Required | No | |
| | | | CH 46 | 5230 | | 16.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 42 | 5210 | 29.3M | 16.50 | 15.05 | No | |
| **Band (GHz)** | **Mode** | **Antenna** | **Channel** | **Frequency (MHz)** | **Data Rate (Mbps)** | **Tune-up** | **Average Power (dBm)** | **SAR Test (Yes/No)** | **Power Setting Level** |
| 5.3 | 802.11a | 2TX CDD | CH 52 | 5260 | 6M | 16.50 | Not Required | No | 12 |
| | | | CH 56 | 5280 | | 16.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 16.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 16.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 52 | 5260 | 6.5M | 16.50 | Not Required | No | |
| | | | CH 56 | 5280 | | 16.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 16.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 16.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 54 | 5270 | 13.5M | 16.50 | Not Required | No | |
| | | | CH 62 | 5310 | | 16.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 52 | 5260 | 6.5M | 16.50 | Not Required | No | |
| | | | CH 56 | 5280 | | 16.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 16.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 16.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 54 | 5270 | 13.5M | 16.50 | Not Required | No | |
| | | | CH 62 | 5310 | | 16.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 58 | 5290 | 29.3M | 16.50 | 14.63 | No | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 802.11a | 2TX CDD | CH 100 | 5500 | 6M | 16.50 | Not Required | No | 12 |
| | | | CH 104 | 5520 | | 16.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 16.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 16.50 | Not Required | No | |
| | | | CH 116 | 5580 | | 16.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 16.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 16.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 16.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 16.50 | Not Required | No | |
| | | | CH 136 | 5680 | | 16.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 16.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 16.50 | Not Required | No | |
| | 8.2.11n 20M | 2TX MIMO | CH 100 | 5500 | 6.5M | 16.50 | Not Required | No | |
| | | | CH 104 | 5520 | | 16.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 16.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 16.50 | Not Required | No | |
| | | | CH 116 | 5580 | | 16.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 16.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 16.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 16.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 16.50 | Not Required | No | |
| | | | CH 136 | 5680 | | 16.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 16.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 16.50 | Not Required | No | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 8.2.11n 40M | 2TX MIMO | CH 102 | 5510 | 13.5M | 16.50 | Not Required | No | 12 |
| | | | CH 110 | 5550 | | 16.50 | Not Required | No | |
| | | | CH 118 | 5590 | | 16.50 | Not Required | No | |
| | | | CH 126 | 5630 | | 16.50 | Not Required | No | |
| | | | CH 134 | 5670 | | 16.50 | Not Required | No | |
| | | | CH 142 | 5710 | | 16.50 | Not Required | No | |
| | 8.2.11ac 20M | 2TX MIMO | CH 100 | 5500 | 6.5M | 16.50 | Not Required | No | |
| | | | CH 104 | 5520 | | 16.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 16.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 16.50 | Not Required | No | |
| | | | CH 116 | 5580 | | 16.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 16.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 16.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 16.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 16.50 | Not Required | No | |
| | | | CH 136 | 5680 | | 16.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 16.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 16.50 | Not Required | No | |
| | 8.2.11ac 40M | 2TX MIMO | CH 102 | 5510 | 13.5M | 16.50 | Not Required | No | |
| | | | CH 110 | 5550 | | 16.50 | Not Required | No | |
| | | | CH 118 | 5590 | | 16.50 | Not Required | No | |
| | | | CH 126 | 5630 | | 16.50 | Not Required | No | |
| | | | CH 134 | 5670 | | 16.50 | Not Required | No | |
| | | | CH 142 | 5710 | | 16.50 | Not Required | No | |
| | 8.2.11ac 80M | 2TX MIMO | CH 106 | 5530 | 29.3M | 16.50 | 14.36 | No | |
| | | | CH 122 | 5610 | | 16.50 | 14.55 | No | |
| | | | CH 138 | 5690 | | 16.50 | 14.52 | No | |

Table 114: Conducted power measurement results of WiFi 5G(Power Setting Level 12).

Note: 1) The Average conducted power of WiFi is measured with RMS detector.

2) SAR is not tested for this simultaneous transmission reduced power level as the more conservative SAR test results at the maximum output power level without any power reduction are used to satisfy the simultaneous transmission SAR test exclusion.(Refer to Section 7.3 for details)

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes /No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.2 | 802.11a | 2TX CDD | CH 36 | 5180* | 6M | 15.50 | Not Required | No | 11 |
| | | | CH 40 | 5200 | | 15.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 15.50 | Not Required | No | |
| | | | CH 48 | 5240* | | 15.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 36 | 5180* | 6.5M | 15.50 | Not Required | No | |
| | | | CH 40 | 5200 | | 15.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 15.50 | Not Required | No | |
| | | | CH 48 | 5240* | | 15.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 38 | 5190 | 13.5M | 15.50 | Not Required | No | |
| | | | CH 46 | 5230 | | 15.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 36 | 5180* | 6.5M | 15.50 | Not Required | No | |
| | | | CH 40 | 5200 | | 15.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 15.50 | Not Required | No | |
| | | | CH 48 | 5240* | | 15.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 38 | 5190 | 13.5M | 15.50 | Not Required | No | |
| | | | CH 46 | 5230 | | 15.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 42 | 5210 | 29.3M | 15.50 | 14.19 | Yes | |
| **Band (GHz)** | **Mode** | **Antenna** | **Channel** | **Frequency (MHz)** | **Data Rate (Mbps)** | **Tune-up** | **Average Power (dBm)** | **SAR Test (Yes/No)** | **Power Setting Level** |
| 5.3 | 802.11a | 2TX CDD | CH 52 | 5260 | 6M | 15.50 | Not Required | No | 11 |
| | | | CH 56 | 5280 | | 15.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 15.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 15.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 52 | 5260 | 6.5M | 15.50 | Not Required | No | |
| | | | CH 56 | 5280 | | 15.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 15.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 15.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 54 | 5270 | 13.5M | 15.50 | Not Required | No | |
| | | | CH 62 | 5310 | | 15.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 52 | 5260 | 6.5M | 15.50 | Not Required | No | |
| | | | CH 56 | 5280 | | 15.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 15.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 15.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 54 | 5270 | 13.5M | 15.50 | Not Required | No | |
| | | | CH 62 | 5310 | | 15.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 58 | 5290 | 29.3M | 15.50 | 14.12 | Yes | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 802.11a | 2TX CDD | CH 100 | 5500 | 6M | 15.50 | Not Required | No | 11 |
| | | | CH 104 | 5520* | | 15.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 15.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 15.50 | Not Required | No | |
| | | | CH 116 | 5580* | | 15.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 15.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 15.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 15.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 15.50 | Not Required | No | |
| | | | CH 136 | 5680* | | 15.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 15.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 15.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 100 | 5500 | 6.5M | 15.50 | Not Required | No | |
| | | | CH 104 | 5520* | | 15.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 15.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 15.50 | Not Required | No | |
| | | | CH 116 | 5580* | | 15.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 15.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 15.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 15.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 15.50 | Not Required | No | |
| | | | CH 136 | 5680* | | 15.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 15.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 15.50 | Not Required | No | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 802.11n 40M | 2TX MIMO | CH 102 | 5510 | 13.5M | 15.50 | Not Required | No | 11 |
| | | | CH 110 | 5550 | | 15.50 | Not Required | No | |
| | | | CH 118 | 5590 | | 15.50 | Not Required | No | |
| | | | CH 126 | 5630 | | 15.50 | Not Required | No | |
| | | | CH 134 | 5670 | | 15.50 | Not Required | No | |
| | | | CH 142 | 5710 | | 15.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 100 | 5500 | 6.5M | 15.50 | Not Required | No | |
| | | | CH 104 | 5520* | | 15.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 15.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 15.50 | Not Required | No | |
| | | | CH 116 | 5580* | | 15.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 15.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 15.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 15.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 15.50 | Not Required | No | |
| | | | CH 136 | 5680* | | 15.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 15.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 15.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 102 | 5510 | 13.5M | 15.50 | Not Required | No | |
| | | | CH 110 | 5550 | | 15.50 | Not Required | No | |
| | | | CH 118 | 5590 | | 15.50 | Not Required | No | |
| | | | CH 126 | 5630 | | 15.50 | Not Required | No | |
| | | | CH 134 | 5670 | | 15.50 | Not Required | No | |
| | | | CH 142 | 5710 | | 15.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 106 | 5530 | 29.3M | 15.50 | 13.52 | Yes | |
| | | | CH 122 | 5610 | | 15.50 | 13.76 | Yes | |
| | | | CH 138 | 5690 | | 15.50 | 13.77 | Yes | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.8 | 802.11a | 2TX CDD | CH 149 | 5745* | 6M | 15.50 | Not Required | No | 11 |
| | | | CH 153 | 5765 | | 15.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 15.50 | Not Required | No | |
| | | | CH 161 | 5805* | | 15.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 15.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 149 | 5745* | 6.5M | 15.50 | Not Required | No | |
| | | | CH 153 | 5765 | | 15.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 15.50 | Not Required | No | |
| | | | CH 161 | 5805* | | 15.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 15.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 151 | 5755 | 13.5M | 15.50 | Not Required | No | |
| | | | CH 159 | 5795 | | 15.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 149 | 5745* | 6.5M | 15.50 | Not Required | No | |
| | | | CH 153 | 5765 | | 15.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 15.50 | Not Required | No | |
| | | | CH 161 | 5805* | | 15.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 15.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 151 | 5755 | 13.5M | 15.50 | Not Required | No | |
| | | | CH 159 | 5795 | | 15.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 155 | 5775 | 29.3M | 15.50 | 13.84 | Yes | |

Table 115: Conducted power measurement results of WiFi 5G(Power Setting Level 11).

Note: 1) The Average conducted power of WiFi is measured with RMS detector.

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.2 | 802.11a | 2TX CDD | CH 36 | 5180 | 6M | 14.50 | Not Required | No | 10 |
| | | | CH 40 | 5200 | | 14.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 14.50 | Not Required | No | |
| | | | CH 48 | 5240 | | 14.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 36 | 5180 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 40 | 5200 | | 14.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 14.50 | Not Required | No | |
| | | | CH 48 | 5240 | | 14.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 38 | 5190 | 13.5M | 14.50 | Not Required | No | |
| | | | CH 46 | 5230 | | 14.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 36 | 5180 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 40 | 5200 | | 14.50 | Not Required | No | |
| | | | CH 44 | 5220 | | 14.50 | Not Required | No | |
| | | | CH 48 | 5240 | | 14.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 38 | 5190 | 13.5M | 14.50 | Not Required | No | |
| | | | CH 46 | 5230 | | 14.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 42 | 5210 | 29.3M | 14.50 | Not Required | No | |
| **Band (GHz)** | **Mode** | **Antenna** | **Channel** | **Frequency (MHz)** | **Data Rate (Mbps)** | **Tune-up** | **Average Power (dBm)** | **SAR Test (Yes/No)** | **Power Setting Level** |
| 5.3 | 802.11a | 2TX CDD | CH 52 | 5260 | 6M | 14.50 | Not Required | No | 10 |
| | | | CH 56 | 5280 | | 14.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 14.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 14.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 52 | 5260 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 56 | 5280 | | 14.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 14.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 14.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 54 | 5270 | 13.5M | 14.50 | Not Required | No | |
| | | | CH 62 | 5310 | | 14.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 52 | 5260 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 56 | 5280 | | 14.50 | Not Required | No | |
| | | | CH 60 | 5300 | | 14.50 | Not Required | No | |
| | | | CH 64 | 5320 | | 14.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 54 | 5270 | 13.5M | 14.50 | Not Required | No | |
| | | | CH 62 | 5310 | | 14.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 58 | 5290 | 29.3M | 14.50 | 12.81 | Yes | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 802.11a | 2TX CDD | CH 100 | 5500 | 6M | 14.50 | Not Required | No | 10 |
| | | | CH 104 | 5520 | | 14.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 14.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 14.50 | Not Required | No | |
| | | | CH 116 | 5580 | | 14.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 14.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 14.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 14.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 14.50 | Not Required | No | |
| | | | CH 136 | 5680 | | 14.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 14.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 14.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 100 | 5500 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 104 | 5520 | | 14.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 14.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 14.50 | Not Required | No | |
| | | | CH 116 | 5580 | | 14.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 14.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 14.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 14.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 14.50 | Not Required | No | |
| | | | CH 136 | 5680 | | 14.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 14.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 14.50 | Not Required | No | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 802.11n 40M | 2TX MIMO | CH 102 | 5510 | 13.5M | 14.50 | Not Required | No | 10 |
| | | | CH 110 | 5550 | | 14.50 | Not Required | No | |
| | | | CH 118 | 5590 | | 14.50 | Not Required | No | |
| | | | CH 126 | 5630 | | 14.50 | Not Required | No | |
| | | | CH 134 | 5670 | | 14.50 | Not Required | No | |
| | | | CH 142 | 5710 | | 14.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 100 | 5500 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 104 | 5520 | | 14.50 | Not Required | No | |
| | | | CH 108 | 5540 | | 14.50 | Not Required | No | |
| | | | CH 112 | 5560 | | 14.50 | Not Required | No | |
| | | | CH 116 | 5580 | | 14.50 | Not Required | No | |
| | | | CH 120 | 5600 | | 14.50 | Not Required | No | |
| | | | CH 124 | 5620 | | 14.50 | Not Required | No | |
| | | | CH 128 | 5640 | | 14.50 | Not Required | No | |
| | | | CH 132 | 5660 | | 14.50 | Not Required | No | |
| | | | CH 136 | 5680 | | 14.50 | Not Required | No | |
| | | | CH 140 | 5700 | | 14.50 | Not Required | No | |
| | | | CH 144 | 5720 | | 14.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 102 | 5510 | 13.5M | 14.50 | Not Required | No | |
| | | | CH 110 | 5550 | | 14.50 | Not Required | No | |
| | | | CH 118 | 5590 | | 14.50 | Not Required | No | |
| | | | CH 126 | 5630 | | 14.50 | Not Required | No | |
| | | | CH 134 | 5670 | | 14.50 | Not Required | No | |
| | | | CH 142 | 5710 | | 14.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 106 | 5530 | 29.3M | 14.50 | 12.41 | Yes | |
| | | | CH 122 | 5610 | | 14.50 | 12.74 | Yes | |
| | | | CH 138 | 5690 | | 14.50 | 12.59 | Yes | |

| Band (GHz) | Mode | Antenna | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune-up | Average Power (dBm) | SAR Test (Yes/No) | Power Setting Level |
|---|---|---|---|---|---|---|---|---|---|
| 5.8 | 802.11a | 2TX CDD | CH 149 | 5745 | 6M | 14.50 | Not Required | No | 10 |
| | | | CH 153 | 5765 | | 14.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 14.50 | Not Required | No | |
| | | | CH 161 | 5805 | | 14.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 14.50 | Not Required | No | |
| | 802.11n 20M | 2TX MIMO | CH 149 | 5745 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 153 | 5765 | | 14.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 14.50 | Not Required | No | |
| | | | CH 161 | 5805 | | 14.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 14.50 | Not Required | No | |
| | 802.11n 40M | 2TX MIMO | CH 151 | 5755 | 13.5M | 14.50 | Not Required | No | |
| | | | CH 159 | 5795 | | 14.50 | Not Required | No | |
| | 802.11ac 20M | 2TX MIMO | CH 149 | 5745 | 6.5M | 14.50 | Not Required | No | |
| | | | CH 153 | 5765 | | 14.50 | Not Required | No | |
| | | | CH 157 | 5785 | | 14.50 | Not Required | No | |
| | | | CH 161 | 5805 | | 14.50 | Not Required | No | |
| | | | CH 165 | 5825 | | 14.50 | Not Required | No | |
| | 802.11ac 40M | 2TX MIMO | CH 151 | 5755 | 13.5M | 14.50 | Not Required | No | |
| | | | CH 159 | 5795 | | 14.50 | Not Required | No | |
| | 802.11ac 80M | 2TX MIMO | CH 155 | 5775 | 29.3M | 14.50 | 12.79 | Yes | |

Table 116: Conducted power measurement results of WiFi 5G(Power Setting Level 10).

Note: 1) The Average conducted power of WiFi is measured with RMS detector.

### 7.1.33 Conducted power measurements of BT

The output power of BT antenna is as following:

| BT 2450 | Tune-up | Average Conducted Power (dBm) | | |
|---|---|---|---|---|
| | | 0CH | 39CH | 78CH |
| DH5 | 11.00 | 8.39 | 9.73 | 8.83 |
| 2DH5 | 11.00 | 5.44 | 6.86 | 5.12 |
| 3DH5 | 11.00 | 5.29 | 6.75 | 4.96 |

| BT 2450 | Tune-up | Average Conducted Power (dBm) | | |
|---|---|---|---|---|
| | | 0CH | 19CH | 39CH |
| BT 4.0 | 11.00 | 5.70 | 8.20 | 5.30 |

Table 117: Conducted power measurement results of BT.

Note: The conducted power of BT is measured with RMS detector.

## 7.2 SAR measurement Results

**General Notes:**

1) Per KDB447498 D01v05r02, all SAR measurement results are scaled to the maximum tune-up tolerance limit to demonstrate SAR compliance.

2) Per KDB447498 D01v05r02, 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:

● ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.

● ≤ 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.

When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

3) Per KDB865664 D01v01r04,for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/Kg; if the deviation among the repeated measurement is ≤20%, and the measured SAR <1.45W/Kg, only one repeated measurement is required.

4) Per KDB941225 D06v02, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

5) Per KDB648474 D04v01r02, SAR is evaluated without a headset connected to the device. When the standalone reported body-worn SAR is ≤1.2 W/kg, no additional SAR evaluations using a headset are required.

6) Per KDB865664 D02v01r01, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is > 1.5 W/kg, or > 7.0 W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing(Refer to the blue SAR test results in the tables of Section 7.3 and appendix B for detailed SAR plots).

7) Addtional SAR tests in simultaneous transmission fixed power reduction scenario are also tested in some frequency bands and test positions, which are only used to ensure simultaneous transmission SAR test exclusion. The standalone SAR compliance still uses the SAR results tested at the maximum output power level.

**GSM Notes:**

1) Per KDB941225 D01v03, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data 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) Per KDB648474 D04v01r02, the device does not support DTM function. Body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.

**UMTS Notes:**

1) Per KDB941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a Second mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

**CDMA Notes:**

1) Per KDB941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a Second mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

**LTE Notes:**

1) The LTE test configurations are determined according to KDB941225 D05 SAR for LTE Devices v02r03.The general test procedures used for SAR testing can be found in Section 6.5.

2) A-MPR was disabled for all SAR test by setting NS_01 on the base station simulator.SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames(maximum TTI)

3) According to KDB 941225 D05 SAR for LTE Devices v02r03, for Time-Division Duplex (TDD) systems, SAR is tested using a fixed periodic duty factor according to the highest transmission duty factor (63.33%) implemented for the device and supported by the defined 3GPP LTE TDD configurations.

**WiFi Notes:**

Per KDB248227D01v02r01:

1) When reported SAR for the initial test position is ≤ 0.4W/kg, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is ≤ 0.8W/kg or all test position are measured. For all positions/configurations tested using the initial test position and subsequent test positions, 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 ≤ 1.2 W/kg or all required channels are tested.

2) For 802.11b Wi-Fi SAR test, the test lab will set the Main Wi-Fi Antenna / Sub Wi-Fi Antenna to the MAX transmit power level respectively and test the SAR respectively in all applicable RF exposure conditions per KDB248227D01v02r01. Only one Wi-Fi TX antenna is chosen at a time.

3) For 802.11 g/a WIFI CDD and 802.11n/ac Wi-Fi MIMO SAR test, only the scenario that two Wi-Fi antennas transmitting at the same time are supported and need to be considered. The common Initial Test Position and OFDM Initial Test Configuration Procedures per KDB 248227D01v02r01 are applied for 2.4G Wi-Fi 802.11g/n and 5G Wi-Fi 802.11 a/n/ac SAR test respectively in all applicable RF exposure conditions.

4) The highest SAR measured for the initial test position or initial test configuration should be used to determine SAR test exclusion according to the sum of 1-g SAR and SAR peak to location ratio provisions in KDB 447498. In addition, a test lab may also choose to perform standalone SAR measurements for test positions and 802.11 configurations that are not required by the initial test position or initial test configuration procedures and apply the results to determine simultaneous transmission SAR test exclusion, according to sum of 1-g and SAR peak to location ratio requirements to reduce the number of simultaneous transmission SAR measurements.

5) For Head SAR compliance, the device uses proximity sensor power reduction during Wi-Fi VOIP or when Wi-Fi antennas transmit simultaneously with the second antenna(Voice) in held-to-ear scenarios. Therefore:

a) Standalone Head SAR for Wi-Fi antennas(WiFi VOIP)are evaluated at reduced power levels according to the real usage scenarios.

b) Additional Head SAR tests at lower reduced power levels in WiFi and 2G&3G&4G Second antenna(Voice) simultaneous transmission scenarios are also tested for some frequency bands and test positions, which are only used to ensure simultaneous transmission SAR test exclusion.

6) WiFi 5G hotspot is only supported for U-NII-1 and U-NII-3, therefore U-NII-2A and U-NII-2C were not evaluated for hotspot condition.

### 7.2.1 SAR measurement Result of GSM850 (Second Antenna)

| Test Position of Head | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 190/836.6 | GSM | 0.699 | 0.389 | -0.110 | 30.63 | 31.50 | 0.854 | 21.4°C |
| Left Hand Touched | 128/824.2 | GSM | 0.590 | 0.329 | -0.190 | 30.69 | 31.50 | 0.711 | 21.4°C |
| Left Hand Touched | 251/848.8 | GSM | 0.785 | 0.438 | -0.150 | 30.60 | 31.50 | 0.966 | 21.4°C |
| Left Hand Tilted 15° | 190/836.6 | GSM | 0.628 | 0.338 | -0.130 | 30.63 | 31.50 | 0.767 | 21.4°C |
| Right Hand Touched | 190/836.6 | GSM | 1.090 | 0.590 | -0.060 | 30.63 | 31.50 | 1.332 | 21.4°C |
| Right Hand Touched | 128/824.2 | GSM | 0.945 | 0.511 | -0.110 | 30.69 | 31.50 | 1.139 | 21.4°C |
| Right Hand Touched | 251/848.8 | GSM | 1.170 | 0.631 | -0.140 | 30.60 | 31.50 | 1.439 | 21.4°C |
| Right Hand Touched-repeated | 251/848.8 | GSM | 1.210 | 0.633 | -0.030 | 30.60 | 31.50 | 1.489 | 21.4°C |
| Right Hand Tilted 15° | 190/836.6 | GSM | 0.942 | 0.480 | -0.100 | 30.63 | 31.50 | 1.151 | 21.4°C |
| Right Hand Tilted 15° | 128/824.2 | GSM | 0.832 | 0.424 | -0.110 | 30.69 | 31.50 | 1.003 | 21.4°C |
| Right Hand Tilted 15° | 251/848.8 | GSM | 1.000 | 0.511 | -0.150 | 30.60 | 31.50 | 1.230 | 21.4°C |
| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
| Right Hand Touched | 251/848.8 | GSM | 0.765 | 0.414 | -0.050 | 29.23 | 29.50 | 0.814 | 21.4°C |
| Right Hand Tilted 15° | 251/848.8 | GSM | 0.654 | 0.331 | -0.060 | 29.23 | 29.50 | 0.696 | 21.4°C |

Table 118: Head SAR test results of GSM850

| Test Position of Body-Worn with 15mm | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 190/836.6 | GSM | 0.229 | 0.158 | -0.030 | 30.63 | 31.50 | 0.280 | 21.5°C |
| Back Side | 190/836.6 | GSM | 0.245 | 0.172 | 0.020 | 30.63 | 31.50 | 0.299 | 21.5°C |

Table 119: Body-Worn SAR test results of GSM850

| Test Position of Hotspot with 10mm | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 190/836.6 | GPRS 2TS | 0.313 | 0.182 | 0.040 | 27.25 | 27.50 | 0.332 | 21.5°C |
| Back Side | 190/836.6 | GPRS 2TS | 0.342 | 0.196 | -0.070 | 27.25 | 27.50 | 0.362 | 21.5°C |
| Left Side | 190/836.6 | GPRS 2TS | 0.146 | 0.098 | 0.060 | 27.25 | 27.50 | 0.155 | 21.5°C |
| Right Side | 190/836.6 | GPRS 2TS | 0.029 | 0.018 | 0.190 | 27.25 | 27.50 | 0.031 | 21.5°C |
| Top Side | 190/836.6 | GPRS 2TS | 0.199 | 0.113 | 0.170 | 27.25 | 27.50 | 0.211 | 21.5°C |

Table 120: Hotspot SAR test results of GSM850

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 190/836.6 | GPRS 2TS | 0.313 | 0.182 | 0.040 | 27.25 | 31.00 | 0.742 | Yes |
| Back Side | 190/836.6 | GPRS 2TS | 0.342 | 0.196 | -0.070 | 27.25 | 21.00 | 0.081 | Yes |
| Left Side | 190/836.6 | GPRS 2TS | 0.146 | 0.098 | 0.060 | 27.25 | 31.00 | 0.346 | Yes |
| Right Side | 190/836.6 | GPRS 2TS | 0.029 | 0.018 | 0.190 | 27.25 | 31.00 | 0.069 | Yes |
| Top Side | 190/836.6 | GPRS 2TS | 0.199 | 0.113 | 0.170 | 27.25 | 31.00 | 0.472 | Yes |

Table 121: 10-g Extremity SAR test reduction evaluation of GSM850

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.2 SAR measurement Result of UMTS Band V (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 4182/836.4 | RMC | 0.791 | 0.438 | -0.090 | 22.91 | 23.80 | 0.971 | 21.4°C |
| Left Hand Touched | 4132/826.4 | RMC | 0.713 | 0.394 | -0.160 | 22.90 | 23.80 | 0.877 | 21.4°C |
| Left Hand Touched | 4233/846.6 | RMC | 0.913 | 0.505 | -0.120 | 23.06 | 23.80 | 1.083 | 21.4°C |
| Left Hand Tilted 15° | 4182/836.4 | RMC | 0.758 | 0.407 | -0.120 | 22.91 | 23.80 | 0.930 | 21.4°C |
| Left Hand Tilted 15° | 4132/826.4 | RMC | 0.725 | 0.384 | 0.080 | 22.90 | 23.80 | 0.892 | 21.4°C |
| Left Hand Tilted 15° | 4233/846.6 | RMC | 0.876 | 0.464 | -0.050 | 23.06 | 23.80 | 1.039 | 21.4°C |
| Right Hand Touched | 4182/836.4 | RMC | 1.200 | 0.643 | -0.130 | 22.91 | 23.80 | 1.473 | 21.4°C |
| Right Hand Touched | 4132/826.4 | RMC | 1.050 | 0.564 | -0.020 | 22.90 | 23.80 | 1.292 | 21.4°C |
| Right Hand Touched | 4233/846.6 | RMC | 1.230 | 0.661 | -0.030 | 23.06 | 23.80 | 1.458 | 21.4°C |
| Right Hand Touched-repeated | 4233/846.6 | RMC | 1.260 | 0.677 | -0.010 | 23.06 | 23.80 | 1.494 | 21.4°C |
| Right Hand Tilted 15° | 4182/836.4 | RMC | 1.060 | 0.531 | -0.160 | 22.91 | 23.80 | 1.301 | 21.4°C |
| Right Hand Tilted 15° | 4132/826.4 | RMC | 1.040 | 0.525 | 0.050 | 22.90 | 23.80 | 1.279 | 21.4°C |
| Right Hand Tilted 15° | 4233/846.6 | RMC | 1.130 | 0.558 | 0.150 | 23.06 | 23.80 | 1.340 | 21.4°C |
| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
| Right Hand Touched | 4233/846.6 | RMC | 0.548 | 0.289 | -0.080 | 19.71 | 21.00 | 0.738 | 21.4°C |
| Right Hand Tilted 15° | 4233/846.6 | RMC | 0.529 | 0.256 | -0.010 | 19.71 | 21.00 | 0.712 | 21.4°C |

Table 122: Head SAR test results of UMTS Band V

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 4182/836.4 | RMC | 0.068 | 0.048 | 0.060 | 22.91 | 23.80 | 0.083 | 21.5°C |
| Back Side | 4182/836.4 | RMC | 0.143 | 0.100 | -0.030 | 22.91 | 23.80 | 0.176 | 21.5°C |

Table 123: Body-Worn SAR test results of UMTS Band V

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 4182/836.4 | RMC | 0.221 | 0.146 | 0.070 | 20.89 | 21.00 | 0.227 | 21.5°C |
| Back Side | 4182/836.4 | RMC | 0.274 | 0.158 | -0.100 | 20.89 | 21.00 | 0.281 | 21.5°C |
| Left Side | 4182/836.4 | RMC | 0.115 | 0.078 | 0.070 | 20.89 | 21.00 | 0.118 | 21.5°C |
| Right Side | 4182/836.4 | RMC | 0.027 | 0.016 | -0.130 | 20.89 | 21.00 | 0.027 | 21.5°C |
| Top Side | 4182/836.4 | RMC | 0.172 | 0.086 | -0.080 | 20.89 | 21.00 | 0.176 | 21.5°C |

Table 124: Hotspot SAR test results of UMTS Band V

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 4182/836.4 | RMC | 0.221 | 0.146 | 0.070 | 21.13 | 23.80 | 0.409 | Yes |
| Back Side | 4182/836.4 | RMC | 0.274 | 0.158 | -0.100 | 21.13 | 23.80 | 0.507 | Yes |
| Left Side | 4182/836.4 | RMC | 0.115 | 0.078 | 0.070 | 21.13 | 23.80 | 0.213 | Yes |
| Right Side | 4182/836.4 | RMC | 0.027 | 0.016 | -0.130 | 21.13 | 23.80 | 0.049 | Yes |
| Top Side | 4182/836.4 | RMC | 0.172 | 0.086 | -0.080 | 21.13 | 23.80 | 0.318 | Yes |

Table 125: 10-g Extremity SAR test reduction evaluation of UMTS Band V

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.3 SAR measurement Result of CDMA BC 0 (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 384/836.52 | RC3 SO55 | 0.707 | 0.319 | -0.190 | 23.45 | 24.20 | 0.840 | 21.4°C |
| Left Hand Touched | 1013/824.7 | RC3 SO55 | 0.683 | 0.378 | -0.140 | 23.42 | 24.20 | 0.817 | 21.4°C |
| Left Hand Touched | 777/848.31 | RC3 SO55 | 0.796 | 0.441 | -0.130 | 23.65 | 24.20 | 0.903 | 21.4°C |
| Left Hand Tilted 15° | 384/836.52 | RC3 SO55 | 0.670 | 0.359 | -0.130 | 23.45 | 24.20 | 0.796 | 21.4°C |
| Right Hand Touched | 384/836.52 | RC3 SO55 | 1.010 | 0.539 | -0.070 | 23.45 | 24.20 | 1.200 | 21.4°C |
| Right Hand Touched | 1013/824.7 | RC3 SO55 | 1.100 | 0.591 | -0.110 | 23.42 | 24.20 | 1.316 | 21.4°C |
| Right Hand Touched | 777/848.31 | RC3 SO55 | 1.200 | 0.643 | -0.050 | 23.65 | 24.20 | 1.362 | 21.4°C |
| Right Hand Touched-repeated | 777/848.31 | RC3 SO55 | 1.220 | 0.649 | -0.130 | 23.65 | 24.20 | 1.385 | 21.4°C |
| Right Hand Tilted 15° | 384/836.52 | RC3 SO55 | 0.797 | 0.413 | -0.130 | 23.45 | 24.20 | 0.947 | 21.4°C |
| Right Hand Tilted 15° | 1013/824.7 | RC3 SO55 | 0.798 | 0.416 | -0.070 | 23.42 | 24.20 | 0.955 | 21.4°C |
| Right Hand Tilted 15° | 777/848.31 | RC3 SO55 | 0.886 | 0.456 | 0.030 | 23.65 | 24.20 | 1.006 | 21.4°C |
| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
| Right Hand Touched | 777/848.31 | RC3 SO55 | 0.570 | 0.308 | -0.080 | 19.65 | 21.00 | 0.778 | 21.4°C |
| Right Hand Tilted 15° | 777/848.31 | RC3 SO55 | 0.507 | 0.255 | -0.060 | 19.65 | 21.00 | 0.692 | 21.4°C |

Table 126: Head SAR test results of CDMA BC0

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 384/836.52 | RC3 S032 | 0.153 | 0.106 | 0.060 | 23.61 | 24.20 | 0.175 | 21.5°C |
| Back Side | 384/836.52 | RC3 S032 | 0.175 | 0.122 | -0.020 | 23.61 | 24.20 | 0.200 | 21.5°C |

Table 127: Body-Worn SAR test results of CDMA BC 0

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 384/836.52 | Rev.0 | 0.258 | 0.152 | 0.100 | 20.17 | 21.00 | 0.312 | 21.5°C |
| Back Side | 384/836.52 | Rev.0 | 0.296 | 0.165 | -0.010 | 20.17 | 21.00 | 0.358 | 21.5°C |
| Left Side | 384/836.52 | Rev.0 | 0.121 | 0.076 | 0.120 | 20.17 | 21.00 | 0.146 | 21.5°C |
| Right Side | 384/836.52 | Rev.0 | 0.029 | 0.019 | 0.080 | 20.17 | 21.00 | 0.035 | 21.5°C |
| Top Side | 384/836.52 | Rev.0 | 0.242 | 0.122 | 0.130 | 20.17 | 21.00 | 0.293 | 21.5°C |

Table 128: Hotspot SAR test results of CDMA BC 0

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 384/836.52 | Rev.0 | 0.258 | 0.152 | 0.100 | 20.17 | 24.20 | 0.653 | Yes |
| Back Side | 384/836.52 | Rev.0 | 0.296 | 0.165 | -0.010 | 20.17 | 24.20 | 0.749 | Yes |
| Left Side | 384/836.52 | Rev.0 | 0.121 | 0.076 | 0.120 | 20.17 | 24.20 | 0.306 | Yes |
| Right Side | 384/836.52 | Rev.0 | 0.029 | 0.019 | 0.080 | 20.17 | 24.20 | 0.074 | Yes |
| Top Side | 384/836.52 | Rev.0 | 0.242 | 0.122 | 0.130 | 20.17 | 24.20 | 0.612 | Yes |

Table 129: 10-g Extremity SAR test reduction evaluation of CDMA BC0

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.4 SAR measurement Result of CDMA BC10 (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 565/820.125 | RC3 SO55 | 0.393 | 0.259 | -0.120 | 23.49 | 24.20 | 0.463 | 21.4°C |
| Left Hand Tilted 15° | 565/820.125 | RC3 SO55 | 0.355 | 0.237 | -0.120 | 23.49 | 24.20 | 0.418 | 21.4°C |
| Right Hand Touched | 565/820.125 | RC3 SO55 | 0.798 | 0.428 | -0.130 | 23.49 | 24.20 | 0.940 | 21.4°C |
| Right Hand Touched | 450/817.25 | RC3 SO55 | 0.737 | 0.395 | -0.010 | 23.45 | 24.20 | 0.876 | 21.4°C |
| Right Hand Touched | 670/822.75 | RC3 SO55 | 0.847 | 0.454 | 0.010 | 23.49 | 24.20 | 0.997 | 21.4°C |
| Right Hand Touched-repeated | 670/822.75 | RC3 SO55 | 0.833 | 0.451 | -0.110 | 23.49 | 24.20 | 0.981 | 21.4°C |
| Right Hand Tilted 15° | 565/820.125 | RC3 SO55 | 0.572 | 0.299 | -0.070 | 23.49 | 24.20 | 0.674 | 21.4°C |

Table 130: Head SAR test results of CDMA BC 10

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 565/820.125 | RC3 SO32 | 0.127 | 0.088 | 0.100 | 23.51 | 24.20 | 0.149 | 21.5°C |
| Back Side | 565/820.125 | RC3 SO32 | 0.146 | 0.102 | -0.080 | 23.51 | 24.20 | 0.171 | 21.5°C |

Table 131: Body-Worn SAR test results of CDMA BC 10

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 565/820.125 | Rev.0 | 0.098 | 0.064 | 0.160 | 20.25 | 21.00 | 0.116 | 21.5°C |
| Back Side | 565/820.125 | Rev.0 | 0.132 | 0.074 | 0.000 | 20.25 | 21.00 | 0.157 | 21.5°C |
| Left Side | 565/820.125 | Rev.0 | 0.054 | 0.036 | 0.180 | 20.25 | 21.00 | 0.064 | 21.5°C |
| Right Side | 565/820.125 | Rev.0 | 0.007 | 0.005 | 0.110 | 20.25 | 21.00 | 0.009 | 21.5°C |
| Top Side | 565/820.125 | Rev.0 | 0.064 | 0.035 | 0.160 | 20.25 | 21.00 | 0.076 | 21.5°C |

Table 132: Hotspot SAR test results of CDMA BC 10

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 565/820.125 | Rev.0 | 0.098 | 0.064 | 0.160 | 20.25 | 24.20 | 0.242 | Yes |
| Back Side | 565/820.125 | Rev.0 | 0.132 | 0.074 | 0.000 | 20.25 | 24.20 | 0.328 | Yes |
| Left Side | 565/820.125 | Rev.0 | 0.054 | 0.036 | 0.180 | 20.25 | 24.20 | 0.134 | Yes |
| Right Side | 565/820.125 | Rev.0 | 0.007 | 0.005 | 0.110 | 20.25 | 24.20 | 0.018 | Yes |
| Top Side | 565/820.125 | Rev.0 | 0.064 | 0.035 | 0.160 | 20.25 | 24.20 | 0.159 | Yes |

Table 133: 10-g Extremity SAR test reduction evaluation of CDMA BC10

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.5 SAR measurement Result of LTE Band V (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 20525/836.5 | 10M QPSK 1RB#49 | 0.671 | 0.371 | 0.000 | 21.76 | 22.70 | 0.833 | 21.4°C |
| Left Hand Touched | 20450/829 | 10M QPSK 1RB#0 | 0.581 | 0.348 | 0.050 | 21.76 | 22.70 | 0.721 | 21.4°C |
| Left Hand Touched | 20600/844 | 10M QPSK 1RB#49 | 0.727 | 0.402 | -0.040 | 21.66 | 22.70 | 0.924 | 21.4°C |
| Left Hand Tilted 15° | 20525/836.5 | 10M QPSK 1RB#49 | 0.676 | 0.361 | -0.060 | 21.76 | 22.70 | 0.839 | 21.4°C |
| Left Hand Tilted 15° | 20450/829 | 10M QPSK 1RB#0 | 0.567 | 0.329 | -0.060 | 21.76 | 22.70 | 0.704 | 21.4°C |
| Left Hand Tilted 15° | 20600/844 | 10M QPSK 1RB#49 | 0.684 | 0.366 | -0.050 | 21.66 | 22.70 | 0.869 | 21.4°C |
| Right Hand Touched | 20525/836.5 | 10M QPSK 1RB#49 | 0.912 | 0.490 | -0.080 | 21.76 | 22.70 | 1.132 | 21.4°C |
| Right Hand Touched | 20450/829 | 10M QPSK 1RB#0 | 0.835 | 0.448 | -0.060 | 21.76 | 22.70 | 1.037 | 21.4°C |
| Right Hand Touched | 20600/844 | 10M QPSK 1RB#49 | 0.963 | 0.520 | 0.090 | 21.66 | 22.70 | 1.224 | 21.4°C |
| Right Hand Touched | 20600/844 | 10M QPSK 1RB#49 | 1.030 | 0.553 | -0.120 | 21.66 | 22.70 | 1.309 | 21.4°C |
| Right Hand Tilted 15° | 20525/836.5 | 10M QPSK 1RB#49 | 0.828 | 0.427 | -0.070 | 21.76 | 22.70 | 1.028 | 21.4°C |
| Right Hand Tilted 15° | 20450/829 | 10M QPSK 1RB#0 | 0.772 | 0.390 | -0.080 | 21.76 | 22.70 | 0.959 | 21.4°C |
| Right Hand Tilted 15° | 20600/844 | 10M QPSK 1RB#49 | 0.878 | 0.448 | 0.000 | 21.66 | 22.70 | 1.116 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 20450/829 | 10M QPSK 50%RB#0 | 0.421 | 0.230 | 0.010 | 20.58 | 21.70 | 0.545 | 21.4°C |
| Left Hand Tilted 15° | 20450/829 | 10M QPSK 50%RB#0 | 0.430 | 0.250 | -0.010 | 20.58 | 21.70 | 0.557 | 21.4°C |
| Right Hand Touched | 20450/829 | 10M QPSK 50%RB#0 | 0.652 | 0.351 | -0.050 | 20.58 | 21.70 | 0.844 | 21.4°C |
| Right Hand Touched | 20525/836.5 | 10M QPSK 50%RB#0 | 0.696 | 0.375 | 0.000 | 20.55 | 21.70 | 0.907 | 21.4°C |
| Right Hand Touched | 20600/844 | 10M QPSK 50%RB#13 | 0.744 | 0.400 | -0.030 | 20.55 | 21.70 | 0.970 | 21.4°C |
| Right Hand Tilted 15° | 20450/829 | 10M QPSK 50%RB#0 | 0.607 | 0.312 | -0.030 | 20.58 | 21.70 | 0.786 | 21.4°C |
| 100%RB | | | | | | | | | |
| Left Hand Touched | 20525/836.5 | 10M QPSK 100%RB#0 | 0.469 | 0.281 | -0.070 | 20.58 | 21.70 | 0.607 | 21.4°C |
| Left Hand Tilted 15° | 20525/836.5 | 10M QPSK 100%RB#0 | 0.473 | 0.274 | -0.030 | 20.58 | 21.70 | 0.612 | 21.4°C |
| Right Hand Touched | 20525/836.5 | 10M QPSK 100%RB#0 | 0.678 | 0.363 | 0.070 | 20.58 | 21.70 | 0.877 | 21.4°C |
| Right Hand Tilted 15° | 20525/836.5 | 10M QPSK 100%RB#0 | 0.538 | 0.329 | 0.030 | 20.58 | 21.70 | 0.696 | 21.4°C |

| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Right Hand Touched | 20600/844 | 10M QPSK 1RB#49 | 0.666 | 0.361 | -0.060 | 19.97 | 21.00 | 0.844 | 21.4°C |
| Right Hand Tilted 15° | 20600/844 | 10M QPSK 1RB#49 | 0.657 | 0.327 | -0.150 | 19.97 | 21.00 | 0.833 | 21.4°C |

Table 134: Head SAR test results of LTE Band V

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20525/836.5 | 10M QPSK 1RB#49 | 0.125 | 0.089 | 0.160 | 21.76 | 22.70 | 0.155 | 21.5°C |
| Back Side | 20525/836.5 | 10M QPSK 1RB#49 | 0.147 | 0.100 | 0.020 | 21.76 | 22.70 | 0.183 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 20450/829 | 10M QPSK 50%RB#0 | 0.075 | 0.051 | 0.100 | 20.58 | 21.70 | 0.097 | 21.5°C |
| Back Side | 20450/829 | 10M QPSK 50%RB#0 | 0.090 | 0.059 | 0.030 | 20.58 | 21.70 | 0.116 | 21.5°C |

Table 135: Body-Worn SAR test results of LTE Band V

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20450/829 | 10M QPSK 1RB#0 | 0.111 | 0.065 | 0.030 | 19.96 | 21.00 | 0.141 | 21.5°C |
| Back Side | 20450/829 | 10M QPSK 1RB#0 | 0.133 | 0.076 | 0.070 | 19.96 | 21.00 | 0.169 | 21.5°C |
| Left Side | 20450/829 | 10M QPSK 1RB#0 | 0.064 | 0.044 | 0.140 | 19.96 | 21.00 | 0.081 | 21.5°C |
| Right Side | 20450/829 | 10M QPSK 1RB#0 | 0.009 | 0.006 | 0.040 | 19.96 | 21.00 | 0.011 | 21.5°C |
| Top Side | 20450/829 | 10M QPSK 1RB#0 | 0.090 | 0.045 | 0.080 | 19.96 | 21.00 | 0.115 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 20450/829 | 10M QPSK 50%RB#0 | 0.100 | 0.067 | 0.100 | 19.85 | 21.00 | 0.130 | 21.5°C |
| Back Side | 20450/829 | 10M QPSK 50%RB#0 | 0.134 | 0.076 | -0.050 | 19.85 | 21.00 | 0.175 | 21.5°C |
| Left Side | 20450/829 | 10M QPSK 50%RB#0 | 0.064 | 0.043 | 0.000 | 19.85 | 21.00 | 0.084 | 21.5°C |
| Right Side | 20450/829 | 10M QPSK 50%RB#0 | 0.008 | 0.006 | 0.130 | 19.85 | 21.00 | 0.011 | 21.5°C |
| Top Side | 20450/829 | 10M QPSK 50%RB#0 | 0.091 | 0.046 | 0.130 | 19.85 | 21.00 | 0.119 | 21.5°C |

Table 136: Hotspot SAR test results of LTE Band V

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20450/829 | 10M QPSK 1RB#0 | 0.111 | 0.065 | 0.030 | 19.96 | 22.70 | 0.209 | Yes |
| Back Side | 20450/829 | 10M QPSK 1RB#0 | 0.133 | 0.076 | 0.070 | 19.96 | 22.70 | 0.250 | Yes |
| Left Side | 20450/829 | 10M QPSK 1RB#0 | 0.064 | 0.044 | 0.140 | 19.96 | 22.70 | 0.120 | Yes |
| Right Side | 20450/829 | 10M QPSK 1RB#0 | 0.009 | 0.006 | 0.040 | 19.96 | 22.70 | 0.016 | Yes |
| Top Side | 20450/829 | 10M QPSK 1RB#0 | 0.090 | 0.045 | 0.080 | 19.96 | 22.70 | 0.170 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 20450/829 | 10M QPSK 50%RB#0 | 0.100 | 0.067 | 0.100 | 19.85 | 21.70 | 0.153 | Yes |
| Back Side | 20450/829 | 10M QPSK 50%RB#0 | 0.134 | 0.076 | -0.050 | 19.85 | 21.70 | 0.205 | Yes |
| Left Side | 20450/829 | 10M QPSK 50%RB#0 | 0.064 | 0.043 | 0.000 | 19.85 | 21.70 | 0.098 | Yes |
| Right Side | 20450/829 | 10M QPSK 50%RB#0 | 0.008 | 0.006 | 0.130 | 19.85 | 21.70 | 0.012 | Yes |
| Top Side | 20450/829 | 10M QPSK 50%RB#0 | 0.091 | 0.046 | 0.130 | 19.85 | 21.70 | 0.139 | Yes |

Table 137: 10-g Extremity SAR test reduction evaluation of LTE Band V

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.6 SAR measurement Result of LTE Band XII (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 23095/707.5 | 10M QPSK 1RB#49 | 0.738 | 0.402 | -0.200 | 22.05 | 22.70 | 0.857 | 21.4°C |
| Left Hand Touched | 23060/704 | 10M QPSK 1RB#25 | 0.695 | 0.378 | -0.060 | 21.76 | 22.70 | 0.863 | 21.4°C |
| Left Hand Touched | 23130/711 | 10M QPSK 1RB#49 | 0.804 | 0.437 | -0.140 | 22.05 | 22.70 | 0.934 | 21.4°C |
| Left Hand Tilted 15° | 23095/707.5 | 10M QPSK 1RB#49 | 0.658 | 0.346 | -0.120 | 22.05 | 22.70 | 0.764 | 21.4°C |
| Right Hand Touched | 23095/707.5 | 10M QPSK 1RB#49 | 0.916 | 0.495 | 0.100 | 22.05 | 22.70 | 1.064 | 21.4°C |
| Right Hand Touched | 23060/704 | 10M QPSK 1RB#25 | 0.879 | 0.473 | -0.050 | 21.76 | 22.70 | 1.091 | 21.4°C |
| Right Hand Touched | 23130/711 | 10M QPSK 1RB#49 | 0.989 | 0.531 | 0.100 | 22.05 | 22.70 | 1.149 | 21.4°C |
| Right Hand Touched-repeated | 23130/711 | 10M QPSK 1RB#49 | 1.030 | 0.547 | -0.130 | 22.05 | 22.70 | 1.196 | 21.4°C |
| Right Hand Tilted 15° | 23095/707.5 | 10M QPSK 1RB#49 | 0.801 | 0.408 | 0.070 | 22.05 | 22.70 | 0.930 | 21.4°C |
| Right Hand Tilted 15° | 23060/704 | 10M QPSK 1RB#25 | 0.788 | 0.401 | -0.020 | 21.76 | 22.70 | 0.978 | 21.4°C |
| Right Hand Tilted 15° | 23130/711 | 10M QPSK 1RB#49 | 0.861 | 0.437 | -0.010 | 22.05 | 22.70 | 1.000 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 23095/707.5 | 10M QPSK 50%RB#25 | 0.591 | 0.321 | -0.060 | 20.84 | 21.70 | 0.720 | 21.4°C |
| Left Hand Tilted 15° | 23095/707.5 | 10M QPSK 50%RB#25 | 0.525 | 0.275 | -0.060 | 20.84 | 21.70 | 0.640 | 21.4°C |
| Right Hand Touched | 23095/707.5 | 10M QPSK 50%RB#25 | 0.739 | 0.395 | -0.040 | 20.84 | 21.70 | 0.901 | 21.4°C |
| Right Hand Touched | 23060/704 | 10M QPSK 50%RB#0 | 0.697 | 0.374 | 0.000 | 20.80 | 21.70 | 0.857 | 21.4°C |
| Right Hand Touched | 23130/711 | 10M QPSK 50%RB#25 | 0.727 | 0.390 | -0.030 | 20.83 | 21.70 | 0.888 | 21.4°C |
| Right Hand Tilted 15° | 23095/707.5 | 10M QPSK 50%RB#25 | 0.707 | 0.346 | -0.020 | 20.84 | 21.70 | 0.862 | 21.4°C |
| Right Hand Tilted 15° | 23060/704 | 10M QPSK 50%RB#0 | 0.631 | 0.310 | -0.060 | 20.80 | 21.70 | 0.776 | 21.4°C |
| Right Hand Tilted 15° | 23130/711 | 10M QPSK 50%RB#25 | 0.746 | 0.366 | -0.060 | 20.83 | 21.70 | 0.911 | 21.4°C |
| 100%RB | | | | | | | | | |
| Left Hand Touched | 23095/707.5 | 10M QPSK 100%RB#0 | 0.544 | 0.333 | -0.080 | 20.77 | 21.70 | 0.674 | 21.4°C |
| Right Hand Touched | 23095/707.5 | 10M QPSK 100%RB#0 | 0.698 | 0.378 | -0.020 | 20.77 | 21.70 | 0.865 | 21.4°C |
| Right Hand Tilted 15° | 23095/707.5 | 10M QPSK 100%RB#0 | 0.557 | 0.353 | -0.070 | 20.77 | 21.70 | 0.690 | 21.4°C |

| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Right Hand Touched | 23130/711 | 10M QPSK 1RB#49 | 0.622 | 0.330 | -0.110 | 19.99 | 21.00 | 0.785 | 21.4°C |
| Right Hand Tilted 15° | 23130/711 | 10M QPSK 1RB#49 | 0.576 | 0.278 | -0.200 | 19.99 | 21.00 | 0.727 | 21.4°C |

Table 138: Head SAR test results of LTE Band XII

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23095/707.5 | 10M QPSK 1RB#49 | 0.100 | 0.067 | 0.000 | 22.05 | 22.70 | 0.116 | 21.4°C |
| Back Side | 23095/707.5 | 10M QPSK 1RB#49 | 0.111 | 0.079 | -0.010 | 22.05 | 22.70 | 0.129 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23095/707.5 | 10M QPSK 50%RB#25 | 0.079 | 0.053 | 0.000 | 20.84 | 21.70 | 0.097 | 21.4°C |
| Back Side | 23095/707.5 | 10M QPSK 50%RB#25 | 0.083 | 0.057 | 0.130 | 20.84 | 21.70 | 0.102 | 21.4°C |

Table 139: Body-Worn SAR test results of LTE Band XII

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 1RB#49 | 0.203 | 0.129 | 0.100 | 20.16 | 21.00 | 0.246 | 21.4°C |
| Back Side | 23130/711 | 10M QPSK 1RB#49 | 0.312 | 0.181 | -0.030 | 20.16 | 21.00 | 0.379 | 21.4°C |
| Left Side | 23130/711 | 10M QPSK 1RB#49 | 0.093 | 0.064 | -0.160 | 20.16 | 21.00 | 0.113 | 21.4°C |
| Right Side | 23130/711 | 10M QPSK 1RB#49 | 0.025 | 0.017 | -0.180 | 20.16 | 21.00 | 0.031 | 21.4°C |
| Top Side | 23130/711 | 10M QPSK 1RB#49 | 0.169 | 0.092 | -0.040 | 20.16 | 21.00 | 0.205 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 50%RB#0 | 0.169 | 0.108 | -0.020 | 19.94 | 21.00 | 0.216 | 21.4°C |
| Back Side | 23130/711 | 10M QPSK 50%RB#0 | 0.176 | 0.109 | -0.040 | 19.94 | 21.00 | 0.225 | 21.4°C |
| Left Side | 23130/711 | 10M QPSK 50%RB#0 | 0.093 | 0.064 | -0.130 | 19.94 | 21.00 | 0.118 | 21.4°C |
| Right Side | 23130/711 | 10M QPSK 50%RB#0 | 0.016 | 0.011 | -0.100 | 19.94 | 21.00 | 0.020 | 21.4°C |
| Top Side | 23130/711 | 10M QPSK 50%RB#0 | 0.136 | 0.070 | 0.030 | 19.94 | 21.00 | 0.174 | 21.4°C |

Table 140: Hotspot SAR test results of LTE Band XII

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 1RB#49 | 0.203 | 0.129 | 0.100 | 20.16 | 22.70 | 0.364 | Yes |
| Back Side | 23130/711 | 10M QPSK 1RB#49 | 0.312 | 0.181 | -0.030 | 20.16 | 22.70 | 0.560 | Yes |
| Left Side | 23130/711 | 10M QPSK 1RB#49 | 0.093 | 0.064 | -0.160 | 20.16 | 22.70 | 0.168 | Yes |
| Right Side | 23130/711 | 10M QPSK 1RB#49 | 0.025 | 0.017 | -0.180 | 20.16 | 22.70 | 0.045 | Yes |
| Top Side | 23130/711 | 10M QPSK 1RB#49 | 0.169 | 0.092 | -0.040 | 20.16 | 22.70 | 0.303 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 50%RB#0 | 0.169 | 0.108 | -0.020 | 19.94 | 21.70 | 0.253 | Yes |
| Back Side | 23130/711 | 10M QPSK 50%RB#0 | 0.176 | 0.109 | -0.040 | 19.94 | 21.70 | 0.264 | Yes |
| Left Side | 23130/711 | 10M QPSK 50%RB#0 | 0.093 | 0.064 | -0.130 | 19.94 | 21.70 | 0.139 | Yes |
| Right Side | 23130/711 | 10M QPSK 50%RB#0 | 0.016 | 0.011 | -0.100 | 19.94 | 21.70 | 0.023 | Yes |
| Top Side | 23130/711 | 10M QPSK 50%RB#0 | 0.136 | 0.070 | 0.030 | 19.94 | 21.70 | 0.204 | Yes |

Table 141: 10-g Extremity SAR test reduction evaluation of LTE Band XII

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.7 SAR measurement Result of LTE Band XIII (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 23230/782 | 10M QPSK 1RB#49 | 0.856 | 0.471 | -0.070 | 21.62 | 22.70 | 1.098 | 21.4°C |
| Left Hand Tilted 15° | 23230/782 | 10M QPSK 1RB#49 | 0.756 | 0.406 | -0.090 | 21.62 | 22.70 | 0.969 | 21.4°C |
| Right Hand Touched | 23230/782 | 10M QPSK 1RB#49 | 1.120 | 0.597 | 0.020 | 21.62 | 22.70 | 1.436 | 21.4°C |
| Right Hand Touched-repeated | 23230/782 | 10M QPSK 1RB#49 | 1.110 | 0.592 | 0.000 | 21.62 | 22.70 | 1.423 | 21.4°C |
| Right Hand Tilted 15° | 23230/782 | 10M QPSK 1RB#49 | 0.961 | 0.479 | -0.030 | 21.62 | 22.70 | 1.232 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 23230/782 | 10M QPSK 50%RB#25 | 0.667 | 0.366 | -0.100 | 20.68 | 21.70 | 0.844 | 21.4°C |
| Left Hand Tilted 15° | 23230/782 | 10M QPSK 50%RB#25 | 0.558 | 0.312 | -0.060 | 20.68 | 21.70 | 0.706 | 21.4°C |
| Right Hand Touched | 23230/782 | 10M QPSK 50%RB#25 | 0.896 | 0.474 | -0.030 | 20.68 | 21.70 | 1.133 | 21.4°C |
| Right Hand Tilted 15° | 23230/782 | 10M QPSK 50%RB#25 | 0.783 | 0.382 | 0.000 | 20.68 | 21.70 | 0.990 | 21.4°C |
| 100%RB | | | | | | | | | |
| Left Hand Touched | 23230/782 | 10M QPSK 100%RB#0 | 0.691 | 0.383 | -0.050 | 20.81 | 21.70 | 0.848 | 21.4°C |
| Left Hand Tilted 15° | 23230/782 | 10M QPSK 100%RB#0 | 0.622 | 0.334 | -0.070 | 20.81 | 21.70 | 0.763 | 21.4°C |
| Right Hand Touched | 23230/782 | 10M QPSK 100%RB#0 | 0.935 | 0.494 | -0.060 | 20.81 | 21.70 | 1.148 | 21.4°C |
| Right Hand Tilted 15° | 23230/782 | 10M QPSK 100%RB#0 | 0.808 | 0.401 | -0.060 | 20.81 | 21.70 | 0.992 | 21.4°C |
| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
| Right Hand Touched | 23230/782 | 10M QPSK 1RB#49 | 0.706 | 0.371 | -0.140 | 19.69 | 21.00 | 0.955 | 21.4°C |
| Right Hand Tilted 15° | 23230/782 | 10M QPSK 1RB#49 | 0.599 | 0.290 | -0.150 | 19.69 | 21.00 | 0.810 | 21.4°C |

Table 142: Head SAR test results of LTE Band XIII

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 1RB#49 | 0.182 | 0.131 | -0.020 | 21.62 | 22.70 | 0.233 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 1RB#49 | 0.226 | 0.162 | 0.000 | 21.62 | 22.70 | 0.290 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 50%RB#0 | 0.130 | 0.089 | 0.010 | 20.68 | 21.70 | 0.164 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 50%RB#0 | 0.160 | 0.110 | -0.070 | 20.68 | 21.70 | 0.202 | 21.4°C |

Table 143: Body-Worn SAR test results of LTE Band XIII

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 1RB#49 | 0.282 | 0.165 | -0.050 | 20.06 | 21.00 | 0.246 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 1RB#49 | 0.308 | 0.178 | 0.040 | 20.06 | 21.00 | 0.382 | 21.4°C |
| Left Side | 23230/782 | 10M QPSK 1RB#49 | 0.177 | 0.119 | -0.110 | 20.06 | 21.00 | 0.220 | 21.4°C |
| Right Side | 23230/782 | 10M QPSK 1RB#49 | 0.051 | 0.035 | -0.180 | 20.06 | 21.00 | 0.064 | 21.4°C |
| Top Side | 23230/782 | 10M QPSK 1RB#49 | 0.198 | 0.110 | -0.120 | 20.06 | 21.00 | 0.246 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 50%RB#0 | 0.296 | 0.194 | 0.010 | 19.95 | 21.00 | 0.377 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 50%RB#0 | 0.319 | 0.184 | -0.050 | 19.95 | 21.00 | 0.406 | 21.4°C |
| Left Side | 23230/782 | 10M QPSK 50%RB#0 | 0.175 | 0.118 | -0.140 | 19.95 | 21.00 | 0.223 | 21.4°C |
| Right Side | 23230/782 | 10M QPSK 50%RB#0 | 0.053 | 0.036 | -0.150 | 19.95 | 21.00 | 0.067 | 21.4°C |
| Top Side | 23230/782 | 10M QPSK 50%RB#0 | 0.210 | 0.117 | -0.070 | 19.95 | 21.00 | 0.267 | 21.4°C |

Table 144: Hotspot SAR test results of LTE Band XIII

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 1RB#49 | 0.282 | 0.165 | -0.050 | 20.06 | 22.70 | 0.364 | Yes |
| Back Side | 23230/782 | 10M QPSK 1RB#49 | 0.308 | 0.178 | 0.040 | 20.06 | 22.70 | 0.566 | Yes |
| Left Side | 23230/782 | 10M QPSK 1RB#49 | 0.177 | 0.119 | -0.110 | 20.06 | 22.70 | 0.325 | Yes |
| Right Side | 23230/782 | 10M QPSK 1RB#49 | 0.051 | 0.035 | -0.180 | 20.06 | 22.70 | 0.094 | Yes |
| Top Side | 23230/782 | 10M QPSK 1RB#49 | 0.198 | 0.110 | -0.120 | 20.06 | 22.70 | 0.364 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 50%RB#0 | 0.296 | 0.194 | 0.010 | 19.95 | 21.70 | 0.443 | Yes |
| Back Side | 23230/782 | 10M QPSK 50%RB#0 | 0.319 | 0.184 | -0.050 | 19.95 | 21.70 | 0.477 | Yes |
| Left Side | 23230/782 | 10M QPSK 50%RB#0 | 0.175 | 0.118 | -0.140 | 19.95 | 21.70 | 0.262 | Yes |
| Right Side | 23230/782 | 10M QPSK 50%RB#0 | 0.053 | 0.036 | -0.150 | 19.95 | 21.70 | 0.079 | Yes |
| Top Side | 23230/782 | 10M QPSK 50%RB#0 | 0.210 | 0.117 | -0.070 | 19.95 | 21.70 | 0.314 | Yes |

Table 145: 10-g Extremity SAR test reduction evaluation of LTE Band XIII

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.8 SAR measurement Result of LTE Band XVII (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 23790/710 | 10M QPSK 1RB#25 | 0.736 | 0.400 | -0.060 | 21.54 | 22.70 | 0.961 | 21.4°C |
| Left Hand Touched | 23780/709 | 10M QPSK 1RB#25 | 0.710 | 0.386 | 0.140 | 21.53 | 22.70 | 0.930 | 21.4°C |
| Left Hand Touched | 23800/711 | 10M QPSK 1RB#25 | 0.758 | 0.412 | -0.090 | 21.52 | 22.70 | 0.995 | 21.4°C |
| Left Hand Tilted 15° | 23790/710 | 10M QPSK 1RB#25 | 0.649 | 0.342 | -0.090 | 21.54 | 22.70 | 0.848 | 21.4°C |
| Left Hand Tilted 15° | 23780/709 | 10M QPSK 1RB#25 | 0.653 | 0.346 | 0.070 | 21.53 | 22.70 | 0.855 | 21.4°C |
| Left Hand Tilted 15° | 23800/711 | 10M QPSK 1RB#25 | 0.666 | 0.356 | -0.060 | 21.52 | 22.70 | 0.874 | 21.4°C |
| Right Hand Touched | 23790/710 | 10M QPSK 1RB#25 | 0.930 | 0.496 | -0.010 | 21.54 | 22.70 | 1.215 | 21.4°C |
| Right Hand Touched | 23780/709 | 10M QPSK 1RB#25 | 0.910 | 0.485 | -0.010 | 21.53 | 22.70 | 1.191 | 21.4°C |
| Right Hand Touched | 23800/711 | 10M QPSK 1RB#25 | 0.972 | 0.515 | -0.160 | 21.52 | 22.70 | 1.275 | 21.4°C |
| Right Hand Touched-repeated | 23800/711 | 10M QPSK 1RB#25 | 0.952 | 0.513 | -0.020 | 21.52 | 22.70 | 1.249 | 21.4°C |
| Right Hand Tilted 15° | 23790/710 | 10M QPSK 1RB#25 | 0.866 | 0.422 | -0.010 | 21.54 | 22.70 | 1.131 | 21.4°C |
| Right Hand Tilted 15° | 23780/709 | 10M QPSK 1RB#25 | 0.803 | 0.400 | -0.010 | 21.53 | 22.70 | 1.051 | 21.4°C |
| Right Hand Tilted 15° | 23800/711 | 10M QPSK 1RB#25 | 0.802 | 0.400 | -0.010 | 21.52 | 22.70 | 1.052 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 23790/710 | 10M QPSK 50%RB#13 | 0.597 | 0.324 | -0.050 | 20.53 | 21.70 | 0.782 | 21.4°C |
| Left Hand Tilted 15° | 23790/710 | 10M QPSK 50%RB#13 | 0.527 | 0.298 | -0.030 | 20.53 | 21.70 | 0.690 | 21.4°C |
| Right Hand Touched | 23790/710 | 10M QPSK 50%RB#13 | 0.730 | 0.387 | 0.080 | 20.53 | 21.70 | 0.956 | 21.4°C |
| Right Hand Touched | 23780/709 | 10M QPSK 50%RB#13 | 0.759 | 0.409 | -0.100 | 20.46 | 21.70 | 1.010 | 21.4°C |
| Right Hand Touched | 23800/711 | 10M QPSK 50%RB#13 | 0.777 | 0.418 | -0.050 | 20.47 | 21.70 | 1.031 | 21.4°C |
| Right Hand Tilted 15° | 23790/710 | 10M QPSK 50%RB#13 | 0.659 | 0.328 | -0.010 | 20.53 | 21.70 | 0.863 | 21.4°C |
| Right Hand Tilted 15° | 23780/709 | 10M QPSK 50%RB#13 | 0.758 | 0.367 | -0.060 | 20.46 | 21.70 | 1.008 | 21.4°C |
| Right Hand Tilted 15° | 23800/711 | 10M QPSK 50%RB#13 | 0.768 | 0.372 | -0.020 | 20.47 | 21.70 | 1.019 | 21.4°C |
| 100%RB | | | | | | | | | |
| Left Hand Touched | 23790/710 | 10M QPSK 100%RB#0 | 0.587 | 0.317 | -0.010 | 20.50 | 21.70 | 0.774 | 21.4°C |
| Left Hand Tilted 15° | 23790/710 | 10M QPSK 100%RB#0 | 0.549 | 0.288 | -0.080 | 20.50 | 21.70 | 0.724 | 21.4°C |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Right Hand Touched | 23790/710 | 10M QPSK 100%RB#0 | 0.720 | 0.383 | -0.020 | 20.50 | 21.70 | 0.949 | 21.4°C |
| Right Hand Tilted 15° | 23790/710 | 10M QPSK 100%RB#0 | 0.658 | 0.325 | -0.010 | 20.50 | 21.70 | 0.867 | 21.4°C |
| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
| Right Hand Touched | 23800/711 | 10M QPSK 1RB#25 | 0.601 | 0.318 | -0.060 | 19.69 | 21.00 | 0.813 | 21.4°C |
| Right Hand Tilted 15° | 23800/711 | 10M QPSK 1RB#25 | 0.558 | 0.270 | -0.060 | 19.69 | 21.00 | 0.754 | 21.4°C |

Table 146: Head SAR test results of LTE Band XVII

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23790/710 | 10M QPSK 1RB#49 | 0.118 | 0.079 | 0.070 | 21.54 | 22.70 | 0.154 | 21.4°C |
| Back Side | 23790/710 | 10M QPSK 1RB#49 | 0.122 | 0.075 | 0.100 | 21.54 | 22.70 | 0.159 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23790/710 | 10M QPSK 50%RB#13 | 0.082 | 0.056 | -0.010 | 20.53 | 21.70 | 0.107 | 21.4°C |
| Back Side | 23790/710 | 10M QPSK 50%RB#13 | 0.084 | 0.057 | 0.130 | 20.53 | 21.70 | 0.110 | 21.4°C |

Table 147: Body-Worn SAR test results of LTE Band XVII

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23800/711 | 10M QPSK 1RB#0 | 0.165 | 0.111 | 0.000 | 20.03 | 21.00 | 0.206 | 21.4°C |
| Back Side | 23800/711 | 10M QPSK 1RB#0 | 0.200 | 0.116 | -0.150 | 20.03 | 21.00 | 0.250 | 21.4°C |
| Left Side | 23800/711 | 10M QPSK 1RB#0 | 0.099 | 0.067 | -0.160 | 20.03 | 21.00 | 0.124 | 21.4°C |
| Right Side | 23800/711 | 10M QPSK 1RB#0 | 0.018 | 0.012 | -0.110 | 20.03 | 21.00 | 0.022 | 21.4°C |
| Top Side | 23800/711 | 10M QPSK 1RB#0 | 0.141 | 0.070 | -0.030 | 20.03 | 21.00 | 0.176 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23780/709 | 10M QPSK 50%RB#25 | 0.196 | 0.132 | -0.100 | 19.92 | 21.00 | 0.251 | 21.4°C |
| Back Side | 23780/709 | 10M QPSK 50%RB#25 | 0.238 | 0.138 | -0.110 | 19.92 | 21.00 | 0.305 | 21.4°C |
| Left Side | 23780/709 | 10M QPSK 50%RB#25 | 0.107 | 0.073 | -0.180 | 19.92 | 21.00 | 0.137 | 21.4°C |
| Right Side | 23780/709 | 10M QPSK 50%RB#25 | 0.019 | 0.012 | -0.050 | 19.92 | 21.00 | 0.024 | 21.4°C |
| Top Side | 23780/709 | 10M QPSK 50%RB#25 | 0.180 | 0.091 | -0.020 | 19.92 | 21.00 | 0.231 | 21.4°C |

Table 148: Hotspot SAR test results of LTE Band XVII

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23800/711 | 10M QPSK 1RB#0 | 0.165 | 0.111 | 0.000 | 20.03 | 22.70 | 0.305 | Yes |
| Back Side | 23800/711 | 10M QPSK 1RB#0 | 0.200 | 0.116 | -0.150 | 20.03 | 22.70 | 0.370 | Yes |
| Left Side | 23800/711 | 10M QPSK 1RB#0 | 0.099 | 0.067 | -0.160 | 20.03 | 22.70 | 0.183 | Yes |
| Right Side | 23800/711 | 10M QPSK 1RB#0 | 0.018 | 0.012 | -0.110 | 20.03 | 22.70 | 0.032 | Yes |
| Top Side | 23800/711 | 10M QPSK 1RB#0 | 0.141 | 0.070 | -0.030 | 20.03 | 22.70 | 0.261 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 23780/709 | 10M QPSK 50%RB#25 | 0.196 | 0.132 | -0.100 | 19.92 | 21.70 | 0.295 | Yes |
| Back Side | 23780/709 | 10M QPSK 50%RB#25 | 0.238 | 0.138 | -0.110 | 19.92 | 21.70 | 0.359 | Yes |
| Left Side | 23780/709 | 10M QPSK 50%RB#25 | 0.107 | 0.073 | -0.180 | 19.92 | 21.70 | 0.161 | Yes |
| Right Side | 23780/709 | 10M QPSK 50%RB#25 | 0.019 | 0.012 | -0.050 | 19.92 | 21.70 | 0.028 | Yes |
| Top Side | 23780/709 | 10M QPSK 50%RB#25 | 0.180 | 0.091 | -0.020 | 19.92 | 21.70 | 0.271 | Yes |

Table 149: 10-g Extremity SAR test reduction evaluation of LTE Band XVII

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.9 SAR measurement Result of LTE Band XXVI (Second Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 26775/822.5 | 15M QPSK 1RB#38 | 0.525 | 0.286 | -0.090 | 21.53 | 22.70 | 0.687 | 21.4°C |
| Left Hand Tilted 15° | 26775/822.5 | 15M QPSK 1RB#38 | 0.555 | 0.293 | -0.010 | 21.53 | 22.70 | 0.727 | 21.4°C |
| Right Hand Touched | 26775/822.5 | 15M QPSK 1RB#38 | 0.850 | 0.449 | 0.170 | 21.53 | 22.70 | 1.113 | 21.4°C |
| Right Hand Touched | 26865/831.5 | 15M QPSK 1RB#0 | 0.892 | 0.473 | -0.060 | 21.46 | 22.70 | 1.187 | 21.4°C |
| Right Hand Touched | 26965/841.5 | 15M QPSK 1RB#38 | 1.030 | 0.544 | -0.040 | 21.48 | 22.70 | 1.364 | 21.4°C |
| Right Hand Touched-repeated | 26965/841.5 | 15M QPSK 1RB#38 | 1.060 | 0.560 | -0.070 | 21.48 | 22.70 | 1.404 | 21.4°C |
| Right Hand Tilted 15° | 26775/822.5 | 15M QPSK 1RB#38 | 0.777 | 0.392 | -0.110 | 21.53 | 22.70 | 1.017 | 21.4°C |
| Right Hand Tilted 15° | 26865/831.5 | 15M QPSK 1RB#0 | 0.853 | 0.429 | -0.030 | 21.46 | 22.70 | 1.135 | 21.4°C |
| Right Hand Tilted 15° | 26965/841.5 | 15M QPSK 1RB#38 | 0.926 | 0.468 | -0.100 | 21.48 | 22.70 | 1.226 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 26965/841.5 | 15M QPSK 50%RB#0 | 0.554 | 0.302 | -0.060 | 20.50 | 21.70 | 0.730 | 21.4°C |
| Left Hand Tilted 15° | 26965/841.5 | 15M QPSK 50%RB#0 | 0.564 | 0.296 | -0.060 | 20.50 | 21.70 | 0.743 | 21.4°C |
| Right Hand Touched | 26965/841.5 | 15M QPSK 50%RB#0 | 0.820 | 0.431 | -0.010 | 20.50 | 21.70 | 1.081 | 21.4°C |
| Right Hand Touched | 26775/822.5 | 15M QPSK 50%RB#0 | 0.687 | 0.362 | -0.020 | 20.27 | 21.70 | 0.955 | 21.4°C |
| Right Hand Touched | 26865/831.5 | 15M QPSK 50%RB#0 | 0.751 | 0.397 | -0.070 | 20.35 | 21.70 | 1.025 | 21.4°C |
| Right Hand Tilted 15° | 26965/841.5 | 15M QPSK 50%RB#0 | 0.744 | 0.373 | 0.030 | 20.50 | 21.70 | 0.981 | 21.4°C |
| Right Hand Tilted 15° | 26775/822.5 | 15M QPSK 50%RB#0 | 0.572 | 0.344 | 0.020 | 20.27 | 21.70 | 0.795 | 21.4°C |
| Right Hand Tilted 15° | 26865/831.5 | 15M QPSK 50%RB#0 | 0.704 | 0.353 | -0.070 | 20.35 | 21.70 | 0.961 | 21.4°C |
| 100%RB | | | | | | | | | |
| Right Hand Touched | 26775/822.5 | 15M QPSK 100%RB#0 | 0.774 | 0.391 | 0.060 | 20.37 | 21.70 | 1.051 | 21.4°C |
| Right Hand Tilted 15° | 26775/822.5 | 15M QPSK 100%RB#0 | 0.724 | 0.354 | -0.010 | 20.37 | 21.70 | 0.983 | 21.4°C |
| Additional SAR test when simultaneous transmission with WiFi, sensor on | | | | | | | | | |
| Right Hand Touched | 26965/841.5 | 15M QPSK 1RB#38 | 0.659 | 0.353 | -0.100 | 20.08 | 21.00 | 0.814 | 21.4°C |
| Right Hand Tilted 15° | 26965/841.5 | 15M QPSK 1RB#38 | 0.604 | 0.296 | -0.160 | 20.08 | 21.00 | 0.747 | 21.4°C |

Table 150: Head SAR test results of LTE Band XXVI

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26775/822.5 | 15M QPSK 1RB#38 | 0.083 | 0.057 | 0.070 | 21.53 | 22.70 | 0.108 | 21.5°C |
| Back Side | 26775/822.5 | 15M QPSK 1RB#38 | 0.097 | 0.068 | 0.070 | 21.53 | 22.70 | 0.126 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 26965/841.5 | 15M QPSK 50%RB#0 | 0.091 | 0.063 | 0.010 | 20.50 | 21.70 | 0.120 | 21.5°C |
| Back Side | 26965/841.5 | 15M QPSK 50%RB#0 | 0.103 | 0.072 | 0.090 | 20.50 | 21.70 | 0.136 | 21.5°C |

Table 151: Body-Worn SAR test results of LTE Band XXVI

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.167 | 0.097 | 0.070 | 19.95 | 21.00 | 0.213 | 21.5°C |
| Back Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.242 | 0.133 | -0.170 | 19.95 | 21.00 | 0.308 | 21.5°C |
| Left Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.082 | 0.056 | -0.020 | 19.95 | 21.00 | 0.105 | 21.5°C |
| Right Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.011 | 0.069 | 0.150 | 19.95 | 21.00 | 0.014 | 21.5°C |
| Top Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.114 | 0.067 | -0.080 | 19.95 | 21.00 | 0.145 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.132 | 0.087 | 0.160 | 19.86 | 21.00 | 0.172 | 21.5°C |
| Back Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.281 | 0.155 | -0.090 | 19.86 | 21.00 | 0.365 | 21.5°C |
| Left Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.095 | 0.064 | -0.030 | 19.86 | 21.00 | 0.124 | 21.5°C |
| Right Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.014 | 0.009 | 0.150 | 19.86 | 21.00 | 0.018 | 21.5°C |
| Top Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.131 | 0.078 | -0.090 | 19.86 | 21.00 | 0.170 | 21.5°C |

Table 152: Hotspot SAR test results of LTE Band XXVI

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.167 | 0.097 | 0.070 | 19.95 | 22.70 | 0.315 | Yes |
| Back Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.242 | 0.133 | -0.170 | 19.95 | 22.70 | 0.456 | Yes |
| Left Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.082 | 0.056 | -0.020 | 19.95 | 22.70 | 0.155 | Yes |
| Right Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.011 | 0.069 | 0.150 | 19.95 | 22.70 | 0.021 | Yes |
| Top Side | 26965/841.5 | 15M QPSK 1RB#0 | 0.114 | 0.067 | -0.080 | 19.95 | 22.70 | 0.215 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.132 | 0.087 | 0.160 | 19.86 | 21.70 | 0.202 | Yes |
| Back Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.281 | 0.155 | -0.090 | 19.86 | 21.70 | 0.429 | Yes |
| Left Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.095 | 0.064 | -0.030 | 19.86 | 21.70 | 0.145 | Yes |
| Right Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.014 | 0.009 | 0.150 | 19.86 | 21.70 | 0.021 | Yes |
| Top Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.131 | 0.078 | -0.090 | 19.86 | 21.70 | 0.200 | Yes |

Table 153: 10-g Extremity SAR test reduction evaluation of LTE Band XXVI

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.10 SAR measurement Result of GSM850 (Main Antenna)

| Test Position of Head | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 190/836.6 | GSM | 0.198 | 0.155 | 0.050 | 32.70 | 33.50 | 0.238 | 21.4°C |
| Left Hand Tilted 15° | 190/836.6 | GSM | 0.175 | 0.113 | 0.040 | 32.70 | 33.50 | 0.210 | 21.4°C |
| Right Hand Touched | 190/836.6 | GSM | 0.269 | 0.209 | -0.160 | 32.70 | 33.50 | 0.323 | 21.4°C |
| Right Hand Tilted 15° | 190/836.6 | GSM | 0.142 | 0.104 | -0.060 | 32.70 | 33.50 | 0.171 | 21.4°C |
| Right Hand Touched | 128/824.2 | GSM | 0.244 | 0.189 | 0.070 | 32.72 | 33.50 | 0.292 | 21.4°C |
| Right Hand Touched | 251/848.8 | GSM | 0.303 | 0.235 | 0.130 | 32.73 | 33.50 | 0.362 | 21.4°C |

Table 154: Head SAR test results of GSM850

| Test Position of Body-Worn with 15mm | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 190/836.6 | GSM | 0.226 | 0.171 | -0.030 | 32.70 | 33.50 | 0.272 | 21.5°C |
| Back Side | 190/836.6 | GSM | 0.233 | 0.178 | 0.000 | 32.70 | 33.50 | 0.280 | 21.5°C |

Table 155: Body-Worn SAR test results of GSM850

| Test Position of Hotspot with 10mm | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 190/836.6 | GPRS 2TS | 0.316 | 0.204 | 0.080 | 27.96 | 29.00 | 0.402 | 21.5°C |
| Back Side | 190/836.6 | GPRS 2TS | 0.374 | 0.211 | 0.040 | 27.96 | 29.00 | 0.475 | 21.5°C |
| Left Side | 190/836.6 | GPRS 2TS | 0.101 | 0.068 | -0.040 | 27.96 | 29.00 | 0.128 | 21.5°C |
| Right Side | 190/836.6 | GPRS 2TS | 0.288 | 0.193 | 0.050 | 27.96 | 29.00 | 0.366 | 21.5°C |
| Bottom Side | 190/836.6 | GPRS 2TS | 0.210 | 0.108 | -0.050 | 27.96 | 29.00 | 0.267 | 21.5°C |

Table 156: Hotspot SAR test results of GSM850

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 190/836.6 | GPRS 2TS | 0.316 | 0.204 | 0.080 | 27.96 | 31.00 | 0.636 | Yes |
| Back Side | 190/836.6 | GPRS 2TS | 0.374 | 0.211 | 0.040 | 27.96 | 31.00 | 0.753 | Yes |
| Left Side | 190/836.6 | GPRS 2TS | 0.101 | 0.068 | -0.040 | 27.96 | 31.00 | 0.203 | Yes |
| Right Side | 190/836.6 | GPRS 2TS | 0.288 | 0.193 | 0.050 | 27.96 | 31.00 | 0.580 | Yes |
| Bottom Side | 190/836.6 | GPRS 2TS | 0.210 | 0.108 | -0.050 | 27.96 | 31.00 | 0.423 | Yes |

Table 157: 10-g Extremity SAR test reduction evaluation of GSM850

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.11 SAR measurement Result of GSM1900 (Main Antenna)

| Test Position of Head | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 661/1880 | GSM | 0.120 | 0.077 | 0.180 | 30.94 | 31.00 | 0.122 | 22.0°C |
| Left Hand Tilted 15° | 661/1880 | GSM | 0.075 | 0.041 | 0.000 | 30.94 | 31.00 | 0.076 | 22.0°C |
| Right Hand Touched | 661/1880 | GSM | 0.139 | 0.089 | 0.040 | 30.94 | 31.00 | 0.141 | 22.0°C |
| Right Hand Tilted 15° | 661/1880 | GSM | 0.080 | 0.044 | 0.040 | 30.94 | 31.00 | 0.081 | 22.0°C |
| Right Hand Touched | 512/1850.2 | GSM | 0.109 | 0.065 | 0.140 | 30.97 | 31.00 | 0.110 | 22.0°C |
| Right Hand Touched | 810/1909.8 | GSM | 0.140 | 0.089 | 0.020 | 30.92 | 31.00 | 0.143 | 22.0°C |

Table 158: Head SAR test results of GSM1900

| Test Position of Body-Worn with 15mm | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 661/1880 | GSM | 0.555 | 0.329 | -0.090 | 30.94 | 31.00 | 0.563 | 21.4°C |
| Back Side | 661/1880 | GSM | 0.594 | 0.354 | 0.170 | 30.94 | 31.00 | 0.602 | 21.4°C |

Table 159: Body-Worn SAR test results of GSM1900

| Test Position of Hotspot with 10mm | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 512/1850.2 | GPRS 2TS | 0.466 | 0.268 | 0.100 | 24.81 | 25.50 | 0.546 | 21.4°C |
| Back Side | 512/1850.2 | GPRS 2TS | 0.507 | 0.290 | 0.110 | 24.81 | 25.50 | 0.594 | 21.4°C |
| Left Side | 512/1850.2 | GPRS 2TS | 0.110 | 0.063 | 0.180 | 24.81 | 25.50 | 0.129 | 21.4°C |
| Right Side | 512/1850.2 | GPRS 2TS | 0.047 | 0.028 | 0.060 | 24.81 | 25.50 | 0.055 | 21.4°C |
| Bottom Side | 512/1850.2 | GPRS 2TS | 0.966 | 0.522 | -0.070 | 24.81 | 25.50 | 1.132 | 21.4°C |
| Bottom Side-Reteaped | 512/1850.2 | GPRS 2TS | 0.994 | 0.534 | -0.030 | 24.81 | 25.50 | 1.165 | 21.4°C |
| Bottom Side | 661/1880 | GPRS 2TS | 0.756 | 0.406 | -0.040 | 24.27 | 25.50 | 1.004 | 21.4°C |
| Bottom Side | 810/1909.8 | GPRS 2TS | 0.587 | 0.313 | -0.080 | 24.73 | 25.50 | 0.701 | 21.4°C |

Table 160: Hotspot SAR test results of GSM1900

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 512/1850.2 | GPRS 2TS | 0.466 | 0.268 | 0.100 | 24.81 | 28.50 | 1.090 | Yes |
| Back Side | 512/1850.2 | GPRS 2TS | 0.507 | 0.290 | 0.110 | 24.81 | 28.50 | 1.186 | Yes |
| Left Side | 512/1850.2 | GPRS 2TS | 0.110 | 0.063 | 0.180 | 24.81 | 28.50 | 0.257 | Yes |
| Right Side | 512/1850.2 | GPRS 2TS | 0.047 | 0.028 | 0.060 | 24.81 | 28.50 | 0.110 | Yes |
| Bottom Side | 512/1850.2 | GPRS 2TS | 0.966 | 0.522 | -0.070 | 24.81 | 28.50 | 2.259 | No |
| Bottom Side-Reteaped | 512/1850.2 | GPRS 2TS | 0.994 | 0.534 | -0.030 | 24.81 | 28.50 | 2.325 | No |
| Bottom Side | 661/1880 | GPRS 2TS | 0.756 | 0.406 | -0.040 | 24.27 | 28.50 | 2.002 | No |
| Bottom Side | 810/1909.8 | GPRS 2TS | 0.587 | 0.313 | -0.080 | 24.73 | 28.50 | 1.398 | No |

Table 161: 10-g Extremity SAR test reduction evaluation of GSM1900

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled 10-g SAR (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Bottom Side | 661/1880 | GPRS 2TS | 2.730 | 1.150 | -0.180 | 27.55 | 28.50 | 1.431 | 20.3°C |

Table 162: 10-g Extremity SAR results of GSM1900

### 7.2.12 SAR measurement Result of UMTS Band II (Main Antenna)

| Test Position of Head | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 9400/1880 | RMC | 0.120 | 0.077 | 0.190 | 22.77 | 23.00 | 0.127 | 22.0°C |
| Left Hand Tilted 15° | 9400/1880 | RMC | 0.113 | 0.068 | 0.110 | 22.77 | 23.00 | 0.119 | 22.0°C |
| Right Hand Touched | 9400/1880 | RMC | 0.136 | 0.088 | 0.110 | 22.77 | 23.00 | 0.143 | 22.0°C |
| Right Hand Tilted 15° | 9400/1880 | RMC | 0.072 | 0.040 | 0.040 | 22.77 | 23.00 | 0.076 | 22.0°C |
| Right Hand Touched | 9262/1852.4 | RMC | 0.117 | 0.071 | 0.120 | 22.77 | 23.00 | 0.123 | 22.0°C |
| Right Hand Touched | 9538/1907.6 | RMC | 0.104 | 0.073 | 0.160 | 22.71 | 23.00 | 0.111 | 22.0°C |

Table 163: Head SAR test results of UMTS Band II

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 9400/1880 | RMC | 0.652 | 0.385 | 0.040 | 22.77 | 23.00 | 0.687 | 22.0°C |
| Back Side | 9400/1880 | RMC | 0.639 | 0.381 | 0.010 | 22.77 | 23.00 | 0.674 | 22.0°C |

Table 164: Body-Worn SAR test results of UMTS Band II

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 9400/1880 | RMC | 0.527 | 0.294 | -0.020 | 19.85 | 20.00 | 0.546 | 21.5°C |
| Back Side | 9400/1880 | RMC | 0.576 | 0.323 | -0.130 | 19.85 | 20.00 | 0.596 | 21.5°C |
| Left Side | 9400/1880 | RMC | 0.083 | 0.046 | 0.190 | 19.85 | 20.00 | 0.086 | 21.5°C |
| Right Side | 9400/1880 | RMC | 0.033 | 0.018 | 0.130 | 19.85 | 20.00 | 0.034 | 21.5°C |
| Bottom Side | 9400/1880 | RMC | 0.705 | 0.379 | 0.090 | 19.85 | 20.00 | 0.730 | 21.5°C |
| Bottom Side | 9262/1852.4 | RMC | 0.803 | 0.434 | 0.070 | 19.80 | 20.00 | 0.841 | 21.5°C |
| Bottom Side-reteaped | 9262/1852.5 | RMC | 0.744 | 0.402 | 0.070 | 19.80 | 20.00 | 0.779 | 21.5°C |
| Bottom Side | 9538/1907.6 | RMC | 0.750 | 0.403 | 0.050 | 19.84 | 20.00 | 0.778 | 21.5°C |

Table 165: Hotspot SAR test results of UMTS Band II

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 9400/1880 | RMC | 0.527 | 0.294 | -0.020 | 19.85 | 23.00 | 1.088 | Yes |
| Back Side | 9400/1880 | RMC | 0.576 | 0.323 | -0.130 | 19.85 | 23.00 | 1.190 | Yes |
| Left Side | 9400/1880 | RMC | 0.083 | 0.046 | 0.190 | 19.85 | 23.00 | 0.171 | Yes |
| Right Side | 9400/1880 | RMC | 0.033 | 0.018 | 0.130 | 19.85 | 23.00 | 0.067 | Yes |
| Bottom Side | 9400/1880 | RMC | 0.705 | 0.379 | 0.090 | 19.85 | 23.00 | 1.456 | No |
| Bottom Side | 9262/1852.4 | RMC | 0.803 | 0.434 | 0.070 | 19.80 | 23.00 | 1.678 | No |
| Bottom Side-reteaped | 9262/1852.5 | RMC | 0.744 | 0.402 | 0.070 | 19.80 | 23.00 | 1.554 | No |
| Bottom Side | 9538/1907.6 | RMC | 0.750 | 0.403 | 0.050 | 19.84 | 23.00 | 1.553 | No |

Table 166: 10-g Extremity SAR test reduction evaluation of UMTS Band II

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled 10-g SAR (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Bottom Side | 9400/1880 | RMC | 3.010 | 1.380 | -0.190 | 22.77 | 23.00 | 1.455 | 22.0°C |

Table 167: 10-g Extremity SAR results of UMTS Band II

### 7.2.13 SAR measurement Result of UMTS Band IV (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 1413/1732.6 | RMC | 0.081 | 0.053 | 0.070 | 22.50 | 23.00 | 0.091 | 21.5°C |
| Left Hand Tilted 15° | 1413/1732.6 | RMC | 0.028 | 0.016 | 0.130 | 22.50 | 23.00 | 0.031 | 21.5°C |
| Right Hand Touched | 1413/1732.6 | RMC | 0.085 | 0.055 | 0.050 | 22.50 | 23.00 | 0.095 | 21.5°C |
| Right Hand Tilted 15° | 1413/1732.6 | RMC | 0.050 | 0.025 | 0.130 | 22.50 | 23.00 | 0.056 | 21.5°C |
| Right Hand Touched | 1312/1712.4 | RMC | 0.089 | 0.057 | 0.070 | 22.42 | 23.00 | 0.102 | 21.5°C |
| Right Hand Touched | 1513/1752.6 | RMC | 0.107 | 0.068 | 0.170 | 22.50 | 23.00 | 0.120 | 21.5°C |

Table 168: Head SAR test results of UMTS Band IV

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 1413/1732.6 | RMC | 0.470 | 0.273 | 0.000 | 22.50 | 23.00 | 0.527 | 21.8°C |
| Back Side | 1413/1732.6 | RMC | 0.454 | 0.267 | 0.030 | 22.50 | 23.00 | 0.509 | 21.8°C |

Table 169: Body-Worn SAR test results of UMTS Band IV

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 1413/1732.6 | RMC | 0.633 | 0.354 | 0.100 | 19.42 | 20.00 | 0.723 | 21.8°C |
| Back Side | 1413/1732.6 | RMC | 0.684 | 0.387 | 0.170 | 19.42 | 20.00 | 0.782 | 21.8°C |
| Back Side | 1312/1712.4 | RMC | 0.541 | 0.309 | -0.050 | 19.46 | 20.00 | 0.613 | 21.8°C |
| Back Side | 1513/1752.6 | RMC | 0.634 | 0.361 | -0.070 | 19.37 | 20.00 | 0.733 | 21.8°C |
| Left Side | 1413/1732.6 | RMC | 0.141 | 0.081 | -0.030 | 19.42 | 20.00 | 0.161 | 21.8°C |
| Right Side | 1413/1732.6 | RMC | 0.062 | 0.035 | 0.130 | 19.42 | 20.00 | 0.071 | 21.8°C |
| Bottom Side | 1413/1732.6 | RMC | 0.950 | 0.520 | -0.040 | 19.42 | 20.00 | 1.086 | 21.8°C |
| Bottom Side-reteaped | 1413/1732.6 | RMC | 1.000 | 0.548 | 0.010 | 19.42 | 20.00 | 1.143 | 21.8°C |
| Bottom Side | 1312/1712.4 | RMC | 0.920 | 0.504 | -0.050 | 19.46 | 20.00 | 1.042 | 21.8°C |
| Bottom Side | 1513/1752.6 | RMC | 0.902 | 0.492 | -0.050 | 19.37 | 20.00 | 1.043 | 21.8°C |

Table 170: Hotspot SAR test results of UMTS Band IV

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 1413/1732.6 | RMC | 0.633 | 0.354 | 0.100 | 19.42 | 23.00 | 1.443 | No |
| Back Side | 1413/1732.6 | RMC | 0.684 | 0.387 | 0.170 | 19.42 | 23.00 | 1.560 | No |
| Back Side | 1312/1712.4 | RMC | 0.541 | 0.309 | -0.050 | 19.46 | 23.00 | 1.222 | No |
| Back Side | 1513/1752.6 | RMC | 0.634 | 0.361 | -0.070 | 19.37 | 23.00 | 1.462 | No |
| Left Side | 1413/1732.6 | RMC | 0.141 | 0.081 | -0.030 | 19.42 | 23.00 | 0.322 | Yes |
| Right Side | 1413/1732.6 | RMC | 0.062 | 0.035 | 0.130 | 19.42 | 23.00 | 0.141 | Yes |
| Bottom Side | 1413/1732.6 | RMC | 0.950 | 0.520 | -0.040 | 19.42 | 23.00 | 2.166 | No |
| Bottom Side-reteaped | 1413/1732.6 | RMC | 1.000 | 0.548 | 0.010 | 19.42 | 23.00 | 2.280 | No |
| Bottom Side | 1312/1712.4 | RMC | 0.920 | 0.504 | -0.050 | 19.46 | 23.00 | 2.079 | No |
| Bottom Side | 1513/1752.6 | RMC | 0.902 | 0.492 | -0.050 | 19.37 | 23.00 | 2.081 | No |

Table 171: 10-g Extremity SAR test reduction evaluation of UMTS Band IV

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Front Side** and **Back Side** and **Bottom side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled 10-g SAR (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 1413/1732.6 | RMC | 6.230 | 2.780 | 0.120 | 22.50 | 23.00 | 3.119 | 21.8°C |
| Front Side | 1312/1712.4 | RMC | 6.500 | 2.900 | 0.080 | 22.42 | 23.00 | 3.314 | 21.8°C |
| Front Side | 1513/1752.6 | RMC | 7.200 | 3.200 | -0.130 | 22.50 | 23.00 | 3.590 | 21.8°C |
| Front Side-repeated | 1513/1752.6 | RMC | 6.940 | 3.040 | 0.130 | 22.50 | 23.00 | 3.411 | 21.8°C |
| Back Side | 1413/1732.6 | RMC | 5.730 | 2.530 | 0.190 | 22.50 | 23.00 | 2.839 | 21.8°C |
| Back Side | 1312/1712.4 | RMC | 6.070 | 2.690 | 0.030 | 22.42 | 23.00 | 3.074 | 21.8°C |
| Back Side | 1513/1752.6 | RMC | 6.790 | 2.970 | -0.160 | 22.50 | 23.00 | 3.332 | 21.8°C |
| Bottom Side | 1413/1732.6 | RMC | 5.040 | 2.090 | 0.120 | 22.50 | 23.00 | 2.345 | 21.8°C |
| Bottom Side | 1312/1712.4 | RMC | 5.810 | 2.340 | -0.060 | 22.42 | 23.00 | 2.674 | 21.8°C |
| Bottom Side | 1513/1752.6 | RMC | 5.240 | 2.090 | -0.170 | 22.50 | 23.00 | 2.345 | 21.8°C |

Table 172: 10-g Extremity SAR results of UMTS Band IV

### 7.2.14 SAR measurement Result of UMTS Band V (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 4182/836.4 | RMC | 0.227 | 0.178 | 0.070 | 23.66 | 24.50 | 0.275 | 21.4°C |
| Left Hand Tilted 15° | 4182/836.4 | RMC | 0.216 | 0.140 | 0.110 | 23.66 | 24.50 | 0.262 | 21.4°C |
| Right Hand Touched | 4182/836.4 | RMC | 0.299 | 0.230 | 0.150 | 23.66 | 24.50 | 0.363 | 21.4°C |
| Right Hand Tilted 15° | 4182/836.4 | RMC | 0.167 | 0.112 | -0.070 | 23.66 | 24.50 | 0.203 | 21.4°C |
| Right Hand Touched | 4132/826.4 | RMC | 0.292 | 0.229 | 0.040 | 23.52 | 24.50 | 0.366 | 21.4°C |
| Right Hand Touched | 4233/846.6 | RMC | 0.330 | 0.258 | 0.170 | 23.64 | 24.50 | 0.402 | 21.4°C |

Table 173: Head SAR test results of UMTS Band V

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 4182/836.4 | RMC | 0.243 | 0.185 | -0.020 | 23.66 | 24.50 | 0.295 | 21.5°C |
| Back Side | 4182/836.4 | RMC | 0.263 | 0.201 | 0.000 | 23.66 | 24.50 | 0.319 | 21.5°C |

Table 174: Body-Worn SAR test results of UMTS Band V

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 4182/836.4 | RMC | 0.343 | 0.218 | -0.090 | 22.10 | 22.50 | 0.376 | 21.5°C |
| Back Side | 4182/836.4 | RMC | 0.382 | 0.221 | 0.010 | 22.10 | 22.50 | 0.419 | 21.5°C |
| Left Side | 4182/836.4 | RMC | 0.158 | 0.106 | 0.000 | 22.10 | 22.50 | 0.173 | 21.5°C |
| Right Side | 4182/836.4 | RMC | 0.367 | 0.247 | 0.050 | 22.10 | 22.50 | 0.402 | 21.5°C |
| Bottom Side | 4182/836.4 | RMC | 0.247 | 0.131 | -0.190 | 22.10 | 22.50 | 0.271 | 21.5°C |

Table 175: Hotspot SAR test results of UMTS Band V

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 4182/836.4 | RMC | 0.343 | 0.218 | -0.090 | 22.10 | 24.50 | 0.596 | No |
| Back Side | 4182/836.4 | RMC | 0.382 | 0.221 | 0.010 | 22.10 | 24.50 | 0.664 | No |
| Left Side | 4182/836.4 | RMC | 0.158 | 0.106 | 0.000 | 22.10 | 24.50 | 0.275 | No |
| Right Side | 4182/836.4 | RMC | 0.367 | 0.247 | 0.050 | 22.10 | 24.50 | 0.638 | No |
| Bottom Side | 4182/836.4 | RMC | 0.247 | 0.131 | -0.190 | 22.10 | 24.50 | 0.429 | No |

Table 176: 10-g Extremity SAR test reduction evaluation of UMTS Band V

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.15 SAR measurement Result of CDMA BC0 (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 384/836.52 | RC3 SO55 | 0.277 | 0.191 | -0.170 | 24.09 | 25.00 | 0.342 | 21.4°C |
| Left Hand Tilted 15° | 384/836.52 | RC3 SO55 | 0.267 | 0.193 | -0.030 | 24.09 | 25.00 | 0.329 | 21.4°C |
| Right Hand Touched | 384/836.52 | RC3 SO55 | 0.330 | 0.255 | -0.060 | 24.09 | 25.00 | 0.407 | 21.4°C |
| Right Hand Tilted 15° | 384/836.52 | RC3 SO55 | 0.209 | 0.142 | 0.090 | 24.09 | 25.00 | 0.258 | 21.4°C |
| Right Hand Touched | 1013/824.7 | RC3 SO55 | 0.309 | 0.240 | 0.070 | 24.08 | 25.00 | 0.382 | 21.4°C |
| Right Hand Touched | 777/848.31 | RC3 SO55 | 0.372 | 0.288 | -0.010 | 24.10 | 25.00 | 0.458 | 21.4°C |

Table 177: Head SAR test results of CDMA BC0

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 384/836.52 | RC3 SO32 | 0.273 | 0.208 | -0.010 | 24.08 | 25.00 | 0.337 | 21.5°C |
| Back Side | 384/836.52 | RC3 SO32 | 0.332 | 0.254 | -0.080 | 24.08 | 25.00 | 0.410 | 21.5°C |

Table 178: Body-Worn SAR test results of CDMA BC0

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 384/836.52 | Rev.0 | 0.548 | 0.313 | 0.020 | 21.65 | 22.50 | 0.666 | 21.5°C |
| Back Side | 384/836.52 | Rev.0 | 0.551 | 0.315 | 0.070 | 21.65 | 22.50 | 0.670 | 21.5°C |
| Left Side | 384/836.52 | Rev.0 | 0.241 | 0.160 | -0.040 | 21.65 | 22.50 | 0.293 | 21.5°C |
| Right Side | 384/836.52 | Rev.0 | 0.465 | 0.311 | 0.060 | 21.65 | 22.50 | 0.566 | 21.5°C |
| Bottom Side | 384/836.52 | Rev.0 | 0.318 | 0.157 | -0.070 | 21.65 | 22.50 | 0.387 | 21.5°C |

Table 179: Hotspot SAR test results of CDMA BC 0

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 384/836.52 | Rev.0 | 0.548 | 0.313 | 0.020 | 21.65 | 25.00 | 1.185 | No |
| Back Side | 384/836.52 | Rev.0 | 0.551 | 0.315 | 0.070 | 21.65 | 25.00 | 1.192 | No |
| Left Side | 384/836.52 | Rev.0 | 0.241 | 0.160 | -0.040 | 21.65 | 25.00 | 0.521 | No |
| Right Side | 384/836.52 | Rev.0 | 0.465 | 0.311 | 0.060 | 21.65 | 25.00 | 1.006 | No |
| Bottom Side | 384/836.52 | Rev.0 | 0.318 | 0.157 | -0.070 | 21.65 | 25.00 | 0.688 | No |

Table 180: 10-g Extremity SAR test reduction evaluation of CDMA BC 0

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.16 SAR measurement Result of CDMA BC 1 (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 600/1880 | RC3 SO55 | 0.108 | 0.070 | 0.040 | 23.28 | 23.70 | 0.119 | 22.0°C |
| Left Hand Tilted 15° | 600/1880 | RC3 SO55 | 0.081 | 0.046 | 0.130 | 23.28 | 23.70 | 0.089 | 22.0°C |
| Right Hand Touched | 600/1880 | RC3 SO55 | 0.117 | 0.075 | 0.040 | 23.28 | 23.70 | 0.129 | 22.0°C |
| Right Hand Tilted 15° | 600/1880 | RC3 SO55 | 0.077 | 0.043 | 0.050 | 23.28 | 23.70 | 0.084 | 22.0°C |
| Right Hand Touched | 25/1851.25 | RC3 SO55 | 0.139 | 0.090 | -0.080 | 23.38 | 23.70 | 0.150 | 22.0°C |
| Right Hand Touched | 1175/1908.75 | RC3 SO55 | 0.106 | 0.068 | 0.020 | 23.24 | 23.70 | 0.118 | 22.0°C |

Table 181: Head SAR test results of CDMA BC1

| Test Position of Body-Worn with 15mm | Test channel /Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 600/1880 | RC3 SO32 | 0.616 | 0.361 | 0.050 | 23.34 | 23.70 | 0.669 | 22.0°C |
| Back Side | 600/1880 | RC3 SO32 | 0.546 | 0.327 | 0.090 | 23.34 | 23.70 | 0.593 | 22.0°C |

Table 182: Body-Worn SAR test results of CDMA BC 1

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 600/1880 | Rev.0 | 0.460 | 0.247 | 0.180 | 18.66 | 20.00 | 0.626 | 21.4°C |
| Back Side | 600/1880 | Rev.0 | 0.524 | 0.292 | 0.120 | 18.66 | 20.00 | 0.713 | 21.4°C |
| Left Side | 600/1880 | Rev.0 | 0.079 | 0.045 | 0.030 | 18.66 | 20.00 | 0.107 | 21.4°C |
| Right Side | 600/1880 | Rev.0 | 0.029 | 0.017 | 0.130 | 18.66 | 20.00 | 0.039 | 21.4°C |
| Bottom Side | 600/1880 | Rev.0 | 0.745 | 0.398 | -0.180 | 18.66 | 20.00 | 1.014 | 21.4°C |
| Bottom Side | 25/1851.25 | Rev.0 | 0.900 | 0.486 | 0.030 | 18.67 | 20.00 | 1.222 | 21.4°C |
| Bottom Side-repeated | 25/1851.25 | Rev.0 | 0.904 | 0.489 | -0.140 | 18.67 | 20.00 | 1.228 | 21.4°C |
| Bottom Side | 1175/1908.75 | Rev.0 | 0.841 | 0.450 | -0.120 | 18.55 | 20.00 | 1.174 | 21.4°C |

Table 183: Hotspot SAR test results of CDMA BC 1

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 600/1880 | Rev.0 | 0.460 | 0.247 | 0.180 | 18.66 | 23.70 | 1.468 | No |
| Back Side | 600/1880 | Rev.0 | 0.524 | 0.292 | 0.120 | 18.66 | 23.70 | 1.672 | No |
| Left Side | 600/1880 | Rev.0 | 0.079 | 0.045 | 0.030 | 18.66 | 23.70 | 0.251 | Yes |
| Right Side | 600/1880 | Rev.0 | 0.029 | 0.017 | 0.130 | 18.66 | 23.70 | 0.092 | Yes |
| Bottom Side | 600/1880 | Rev.0 | 0.745 | 0.398 | -0.180 | 18.66 | 23.70 | 2.378 | No |
| Bottom Side | 25/1851.25 | Rev.0 | 0.900 | 0.486 | 0.030 | 18.67 | 23.70 | 2.866 | No |
| Bottom Side-repeated | 25/1851.25 | Rev.0 | 0.904 | 0.489 | -0.140 | 18.67 | 23.70 | 2.879 | No |
| Bottom Side | 1175/1908.75 | Rev.0 | 0.841 | 0.450 | -0.120 | 18.55 | 23.70 | 2.753 | No |

Table 184: 10-g Extremity SAR test reduction evaluation of CDMA BC1

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Front Side** and **Back Side** and **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled 10-g SAR (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 600/1880 | Rev.0 | 5.590 | 2.650 | 0.180 | 23.32 | 23.70 | 2.892 | 22.0°C |
| Front Side | 25/1851.25 | Rev.0 | 5.570 | 2.650 | 0.190 | 23.42 | 23.70 | 2.826 | 22.0°C |
| Front Side | 1175/1908.75 | Rev.0 | 5.550 | 2.660 | 0.090 | 23.28 | 23.70 | 2.930 | 22.0°C |
| Back Side | 600/1880 | Rev.0 | 6.880 | 3.080 | 0.120 | 23.32 | 23.70 | 3.362 | 22.0°C |
| Back Side | 25/1851.25 | Rev.0 | 6.620 | 3.020 | 0.130 | 23.42 | 23.70 | 3.221 | 22.0°C |
| Back Side | 1175/1908.75 | Rev.0 | 7.140 | 3.140 | 0.140 | 23.28 | 23.70 | 3.459 | 22.0°C |
| Back Side-reteaped | 1175/1908.75 | Rev.0 | 7.230 | 3.170 | 0.090 | 23.28 | 23.70 | 3.492 | 22.0°C |
| Bottom Side | 600/1880 | Rev.0 | 3.260 | 1.470 | -0.050 | 23.32 | 23.70 | 1.604 | 22.0°C |

Table 185: 10-g Extremity SAR results of CDMA BC 1

### 7.2.17 SAR measurement Result of CDMA BC 10 (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Left Hand Touched | 565/820.125 | RC3 SO55 | 0.225 | 0.176 | 0.080 | 24.20 | 25.00 | 0.271 | 21.4°C |
| Left Hand Tilted 15° | 565/820.125 | RC3 SO55 | 0.186 | 0.129 | -0.100 | 24.20 | 25.00 | 0.224 | 21.4°C |
| Right Hand Touched | 565/820.125 | RC3 SO55 | 0.261 | 0.204 | 0.120 | 24.20 | 25.00 | 0.314 | 21.4°C |
| Right Hand Tilted 15° | 565/820.125 | RC3 SO55 | 0.241 | 0.185 | -0.040 | 24.20 | 25.00 | 0.290 | 21.4°C |
| Right Hand Touched | 450/817.25 | RC3 SO55 | 0.239 | 0.187 | 0.140 | 24.15 | 25.00 | 0.291 | 21.4°C |
| Right Hand Touched | 670/822.75 | RC3 SO55 | 0.247 | 0.193 | -0.050 | 24.13 | 25.00 | 0.302 | 21.4°C |

Table 186: Head SAR test results of CDMA BC 10

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 565/820.125 | RC3 SO32 | 0.272 | 0.209 | -0.020 | 24.15 | 25.00 | 0.331 | 21.5°C |
| Back Side | 565/820.125 | RC3 SO32 | 0.359 | 0.276 | 0.080 | 24.15 | 25.00 | 0.437 | 21.5°C |

Table 187: Body-Worn SAR test results of CDMA BC 10

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 565/820.125 | Rev.0 | 0.202 | 0.128 | 0.020 | 21.45 | 22.50 | 0.257 | 21.5°C |
| Back Side | 565/820.125 | Rev.0 | 0.224 | 0.129 | 0.000 | 21.45 | 22.50 | 0.285 | 21.5°C |
| Left Side | 565/820.125 | Rev.0 | 0.113 | 0.076 | -0.170 | 21.45 | 22.50 | 0.144 | 21.5°C |
| Right Side | 565/820.125 | Rev.0 | 0.242 | 0.165 | -0.020 | 21.45 | 22.50 | 0.308 | 21.5°C |
| Bottom Side | 565/820.125 | Rev.0 | 0.135 | 0.074 | 0.010 | 21.45 | 22.50 | 0.172 | 21.5°C |

Table 188: Hotspot SAR test results of CDMA BC 10

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel /Freq. | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled SAR1-g (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| Front Side | 565/820.125 | Rev.0 | 0.202 | 0.128 | 0.020 | 21.45 | 25.00 | 0.457 | No |
| Back Side | 565/820.125 | Rev.0 | 0.224 | 0.129 | 0.000 | 21.45 | 25.00 | 0.507 | No |
| Left Side | 565/820.125 | Rev.0 | 0.113 | 0.076 | -0.170 | 21.45 | 25.00 | 0.256 | No |
| Right Side | 565/820.125 | Rev.0 | 0.242 | 0.165 | -0.020 | 21.45 | 25.00 | 0.548 | No |
| Bottom Side | 565/820.125 | Rev.0 | 0.135 | 0.074 | 0.010 | 21.45 | 25.00 | 0.306 | No |

Table 189: 10-g Extremity SAR test reduction evaluation of CDMA BC 10

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.18 SAR measurement Result of LTE Band II (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 18700/1860 | 20M QPSK 1RB#0 | 0.171 | 0.106 | 0.110 | 22.55 | 22.80 | 0.181 | 22.0°C |
| Left Hand Tilted 15° | 18700/1860 | 20M QPSK 1RB#0 | 0.113 | 0.062 | 0.060 | 22.55 | 22.80 | 0.120 | 22.0°C |
| Right Hand Touched | 18700/1860 | 20M QPSK 1RB#0 | 0.149 | 0.096 | -0.190 | 22.55 | 22.80 | 0.158 | 22.0°C |
| Right Hand Tilted 15° | 18700/1860 | 20M QPSK 1RB#0 | 0.102 | 0.058 | 0.100 | 22.55 | 22.80 | 0.108 | 22.0°C |
| Left Hand Touched | 18900/1880 | 20M QPSK 1RB#0 | 0.137 | 0.087 | 0.090 | 22.40 | 22.80 | 0.150 | 22.0°C |
| Left Hand Touched | 19100/1900 | 20M QPSK 1RB#0 | 0.124 | 0.072 | 0.040 | 22.43 | 22.80 | 0.135 | 22.0°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 19100/1900 | 20M QPSK 50%RB#0 | 0.102 | 0.059 | 0.150 | 21.05 | 21.80 | 0.121 | 22.0°C |
| Left Hand Tilted 15° | 19100/1900 | 20M QPSK 50%RB#0 | 0.055 | 0.030 | 0.050 | 21.05 | 21.80 | 0.065 | 22.0°C |
| Right Hand Touched | 19100/1900 | 20M QPSK 50%RB#0 | 0.094 | 0.054 | -0.140 | 21.05 | 21.80 | 0.111 | 22.0°C |
| Right Hand Tilted 15° | 19100/1900 | 20M QPSK 50%RB#0 | 0.055 | 0.031 | 0.200 | 21.05 | 21.80 | 0.066 | 22.0°C |

Table 190: Head SAR test results of LTE Band II

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 18700/1860 | 20M QPSK 1RB#0 | 0.706 | 0.425 | 0.000 | 22.55 | 22.80 | 0.748 | 22.0°C |
| Back Side | 18700/1860 | 20M QPSK 1RB#0 | 0.767 | 0.458 | -0.030 | 22.55 | 22.80 | 0.812 | 22.0°C |
| Back Side | 18900/1880 | 20M QPSK 1RB#0 | 0.739 | 0.444 | 0.050 | 22.40 | 22.80 | 0.810 | 22.0°C |
| Back Side | 19100/1900 | 20M QPSK 1RB#0 | 0.710 | 0.423 | 0.180 | 22.43 | 22.80 | 0.773 | 22.0°C |
| 50%RB | | | | | | | | | |
| Front Side | 19100/1900 | 20M QPSK 50%RB#0 | 0.417 | 0.241 | -0.030 | 21.05 | 21.80 | 0.496 | 22.0°C |
| Back Side | 19100/1900 | 20M QPSK 50%RB#0 | 0.455 | 0.259 | -0.020 | 21.05 | 21.80 | 0.541 | 22.0°C |
| 100%RB | | | | | | | | | |
| Back Side | 18700/1860 | 20M QPSK 100%RB#0 | 0.501 | 0.284 | 0.130 | 20.98 | 21.80 | 0.605 | 22.0°C |

Table 191: Body-Worn SAR test results of LTE Band II

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 18900/1880 | 20M QPSK 1RB#0 | 0.484 | 0.265 | 0.120 | 19.47 | 20.00 | 0.547 | 21.4°C |
| Back Side | 18900/1880 | 20M QPSK 1RB#0 | 0.470 | 0.269 | -0.080 | 19.47 | 20.00 | 0.531 | 21.4°C |
| Left Side | 18900/1880 | 20M QPSK 1RB#0 | 0.111 | 0.063 | -0.170 | 19.47 | 20.00 | 0.125 | 21.4°C |
| Right Side | 18900/1880 | 20M QPSK 1RB#0 | 0.043 | 0.025 | 0.160 | 19.47 | 20.00 | 0.049 | 21.4°C |
| Bottom Side | 18900/1880 | 20M QPSK 1RB#0 | 0.796 | 0.425 | -0.130 | 19.47 | 20.00 | 0.899 | 21.4°C |
| Bottom Side | 18700/1860 | 20M QPSK 1RB#0 | 0.929 | 0.498 | -0.050 | 19.43 | 20.00 | 1.059 | 21.4°C |
| Bottom Side-reteaped | 18700/1860 | 20M QPSK 1RB#0 | 1.000 | 0.538 | -0.060 | 19.43 | 20.00 | 1.140 | 21.4°C |
| Bottom Side | 19100/1900 | 20M QPSK 1RB#0 | 0.869 | 0.463 | -0.010 | 19.34 | 20.00 | 1.012 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.457 | 0.247 | 0.120 | 19.18 | 20.00 | 0.552 | 21.4°C |
| Back Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.450 | 0.258 | 0.130 | 19.18 | 20.00 | 0.544 | 21.4°C |
| Left Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.104 | 0.059 | -0.006 | 19.18 | 20.00 | 0.126 | 21.4°C |
| Right Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.044 | 0.025 | 0.170 | 19.18 | 20.00 | 0.053 | 21.4°C |
| Bottom Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.806 | 0.430 | -0.080 | 19.18 | 20.00 | 0.973 | 21.4°C |
| Bottom Side | 18900/1880 | 20M QPSK 50%RB#0 | 0.755 | 0.402 | -0.070 | 19.11 | 20.00 | 0.927 | 21.4°C |
| Bottom Side | 19100/1900 | 20M QPSK 50%RB#0 | 0.762 | 0.405 | -0.040 | 19.04 | 20.00 | 0.951 | 21.4°C |
| 100%RB | | | | | | | | | |
| Bottom Side | 18700/1860 | 20M QPSK 100%RB#0 | 0.787 | 0.420 | -0.050 | 19.05 | 20.00 | 0.979 | 21.4°C |

Table 192: Hotspot SAR test results of LTE Band II

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 18900/1880 | 20M QPSK 1RB#0 | 0.484 | 0.265 | 0.120 | 19.47 | 22.80 | 1.042 | Yes |
| Back Side | 18900/1880 | 20M QPSK 1RB#0 | 0.470 | 0.269 | -0.080 | 19.47 | 22.80 | 1.012 | Yes |
| Left Side | 18900/1880 | 20M QPSK 1RB#0 | 0.111 | 0.063 | -0.170 | 19.47 | 22.80 | 0.239 | Yes |
| Right Side | 18900/1880 | 20M QPSK 1RB#0 | 0.043 | 0.025 | 0.160 | 19.47 | 22.80 | 0.093 | Yes |
| Bottom Side | 18900/1880 | 20M QPSK 1RB#0 | 0.796 | 0.425 | -0.130 | 19.47 | 22.80 | 1.714 | No |
| Bottom Side | 18700/1860 | 20M QPSK 1RB#0 | 0.929 | 0.498 | -0.050 | 19.43 | 22.80 | 2.018 | No |
| Bottom Side-reteaped | 18700/1860 | 20M QPSK 1RB#0 | 1.000 | 0.538 | -0.060 | 19.43 | 22.80 | 2.173 | No |
| Bottom Side | 19100/1900 | 20M QPSK 1RB#0 | 0.869 | 0.463 | -0.010 | 19.34 | 22.80 | 1.928 | No |
| 50%RB | | | | | | | | | |
| Front Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.457 | 0.247 | 0.120 | 19.18 | 21.80 | 0.835 | Yes |
| Back Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.450 | 0.258 | 0.130 | 19.18 | 21.80 | 0.823 | Yes |
| Left Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.104 | 0.059 | -0.006 | 19.18 | 21.80 | 0.190 | Yes |
| Right Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.044 | 0.025 | 0.170 | 19.18 | 21.80 | 0.080 | Yes |
| Bottom Side | 18700/1860 | 20M QPSK 50%RB#0 | 0.806 | 0.430 | -0.080 | 19.18 | 21.80 | 1.473 | No |
| Bottom Side | 18900/1880 | 20M QPSK 50%RB#0 | 0.755 | 0.402 | -0.070 | 19.11 | 21.80 | 1.403 | No |
| Bottom Side | 19100/1900 | 20M QPSK 50%RB#0 | 0.762 | 0.405 | -0.040 | 19.04 | 21.80 | 1.439 | No |
| 100%RB | | | | | | | | | |
| Bottom Side | 18700/1860 | 20M QPSK 100%RB#0 | 0.787 | 0.420 | -0.050 | 19.05 | 21.80 | 1.482 | No |

Table 193: 10-g Extremity SAR test reduction evaluation of LTE Band II

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{10-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Bottom Side | 18700/1860 | 20M QPSK 1RB#0 | 3.370 | 1.360 | 0.050 | 22.55 | 22.80 | 1.441 | 22.0°C |
| 50%RB | | | | | | | | | |
| Bottom Side | 19100/1900 | 20M QPSK 50%RB#0 | 2.110 | 0.884 | -0.170 | 21.05 | 21.80 | 1.051 | 22.0°C |

Table 194: 10-g Extremity SAR results of LTE Band II

### 7.2.19 SAR measurement Result of LTE Band IV (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 20175/1732.5 | 20M QPSK 1RB#0 | 0.105 | 0.068 | 0.090 | 22.67 | 23.00 | 0.113 | 21.5°C |
| Left Hand Touched | 20050/1720 | 20M QPSK 1RB#0 | 0.091 | 0.059 | 0.160 | 22.42 | 23.00 | 0.104 | 21.5°C |
| Left Hand Touched | 20300/1745 | 20M QPSK 1RB#0 | 0.093 | 0.061 | 0.110 | 22.66 | 23.00 | 0.100 | 21.5°C |
| Left Hand Tilted 15° | 20175/1732.5 | 20M QPSK 1RB#0 | 0.030 | 0.020 | 0.150 | 22.67 | 23.00 | 0.032 | 21.5°C |
| Right Hand Touched | 20175/1732.5 | 20M QPSK 1RB#0 | 0.099 | 0.065 | 0.090 | 22.67 | 23.00 | 0.107 | 21.5°C |
| Right Hand Tilted 15° | 20175/1732.5 | 20M QPSK 1RB#0 | 0.040 | 0.026 | -0.030 | 22.67 | 23.00 | 0.043 | 21.5°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.060 | 0.042 | 0.120 | 21.12 | 22.00 | 0.073 | 21.5°C |
| Left Hand Tilted 15° | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.020 | 0.012 | 0.120 | 21.12 | 22.00 | 0.025 | 21.5°C |
| Right Hand Touched | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.063 | 0.041 | 0.050 | 21.12 | 22.00 | 0.077 | 21.5°C |
| Right Hand Tilted 15° | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.031 | 0.017 | 0.130 | 21.12 | 22.00 | 0.038 | 21.5°C |

Table 195: Head SAR test results of LTE Band IV

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20175/1732.5 | 20M QPSK 1RB#0 | 0.474 | 0.282 | 0.060 | 22.67 | 23.00 | 0.511 | 21.8°C |
| Back Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.517 | 0.304 | 0.100 | 22.67 | 23.00 | 0.558 | 21.8°C |
| 50%RB | | | | | | | | | |
| Front Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.330 | 0.193 | 0.090 | 21.12 | 22.00 | 0.404 | 21.8°C |
| Back Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.325 | 0.188 | 0.020 | 21.12 | 22.00 | 0.398 | 21.8°C |

Table 196: Body-Worn SAR test results of LTE Band IV

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20050/1720 | 20M QPSK 1RB#0 | 0.793 | 0.452 | 0.030 | 19.79 | 20.00 | 0.832 | 21.8°C |
| Front Side | 20175/1732.5 | 20M QPSK 1RB#0 | 0.806 | 0.458 | -0.080 | 19.71 | 20.00 | 0.862 | 21.8°C |
| Front Side | 20300/1745 | 20M QPSK 1RB#0 | 0.833 | 0.477 | 0.130 | 19.60 | 20.00 | 0.913 | 21.8°C |
| Back Side | 20050/1720 | 20M QPSK 1RB#0 | 1.030 | 0.579 | 0.000 | 19.79 | 20.00 | 1.081 | 21.8°C |
| Back Side | 20175/1732.5 | 20M QPSK 1RB#0 | 1.050 | 0.596 | 0.130 | 19.71 | 20.00 | 1.123 | 21.8°C |
| Back Side | 20300/1745 | 20M QPSK 1RB#0 | 1.060 | 0.600 | 0.020 | 19.60 | 20.00 | 1.162 | 21.8°C |
| Left Side | 20050/1720 | 20M QPSK 1RB#0 | 0.219 | 0.125 | 0.120 | 19.79 | 20.00 | 0.230 | 21.8°C |
| Right Side | 20050/1720 | 20M QPSK 1RB#0 | 0.090 | 0.052 | 0.130 | 19.79 | 20.00 | 0.095 | 21.8°C |
| Bottom Side | 20050/1720 | 20M QPSK 1RB#0 | 1.180 | 0.642 | 0.030 | 19.79 | 20.00 | 1.238 | 21.8°C |
| Bottom Side | 20175/1732.5 | 20M QPSK 1RB#0 | 1.260 | 0.692 | -0.080 | 19.71 | 20.00 | 1.347 | 21.8°C |
| Bottom Side | 20300/1745 | 20M QPSK 1RB#0 | 1.290 | 0.709 | 0.060 | 19.60 | 20.00 | 1.414 | 21.8°C |
| Bottom Side-Reteaped | 20300/1745 | 20M QPSK 1RB#0 | 1.230 | 0.676 | 0.070 | 19.60 | 20.00 | 1.349 | 21.8°C |
| 50%RB | | | | | | | | | |
| Front Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.749 | 0.426 | 0.090 | 19.25 | 20.00 | 0.890 | 21.8°C |
| Front Side | 20050/1720 | 20M QPSK 50%RB#0 | 0.723 | 0.412 | 0.100 | 19.21 | 20.00 | 0.867 | 21.8°C |
| Front Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.717 | 0.408 | 0.040 | 19.23 | 20.00 | 0.856 | 21.8°C |
| Back Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.961 | 0.543 | 0.100 | 19.25 | 20.00 | 1.142 | 21.8°C |
| Back Side | 20050/1720 | 20M QPSK 50%RB#0 | 0.922 | 0.519 | 0.000 | 19.21 | 20.00 | 1.106 | 21.8°C |
| Back Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.919 | 0.519 | 0.010 | 19.23 | 20.00 | 1.097 | 21.8°C |
| Left Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.280 | 0.128 | 0.120 | 19.25 | 20.00 | 0.333 | 21.8°C |
| Right Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.099 | 0.056 | 0.180 | 19.25 | 20.00 | 0.117 | 21.8°C |
| Bottom Side | 20300/1745 | 20M QPSK 50%RB#0 | 1.160 | 0.629 | 0.040 | 19.25 | 20.00 | 1.379 | 21.8°C |
| Bottom Side | 20050/1720 | 20M QPSK 50%RB#0 | 1.110 | 0.606 | 0.030 | 19.21 | 20.00 | 1.331 | 21.8°C |
| Bottom Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 1.120 | 0.609 | 0.040 | 19.23 | 20.00 | 1.337 | 21.8°C |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100%RB | | | | | | | | | |
| Front Side | 20300/1745 | 20M QPSK 100%RB#0 | 0.727 | 0.414 | -0.050 | 19.18 | 20.00 | 0.878 | 21.8°C |
| Back Side | 20300/1745 | 20M QPSK 100%RB#0 | 0.932 | 0.526 | 0.040 | 19.18 | 20.00 | 1.126 | 21.8°C |
| Bottom Side | 20300/1745 | 20M QPSK 100%RB#0 | 1.180 | 0.641 | -0.080 | 19.18 | 20.00 | 1.425 | 21.8°C |

Table 197: Hotspot SAR test results of LTE Band IV

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20050/1720 | 20M QPSK 1RB#0 | 0.793 | 0.452 | 0.030 | 19.79 | 23.00 | 1.661 | No |
| Front Side | 20175/1732.5 | 20M QPSK 1RB#0 | 0.806 | 0.458 | -0.080 | 19.71 | 23.00 | 1.719 | No |
| Front Side | 20300/1745 | 20M QPSK 1RB#0 | 0.833 | 0.477 | 0.130 | 19.60 | 23.00 | 1.822 | No |
| Back Side | 20050/1720 | 20M QPSK 1RB#0 | 1.030 | 0.579 | 0.000 | 19.79 | 23.00 | 2.157 | No |
| Back Side | 20175/1732.5 | 20M QPSK 1RB#0 | 1.050 | 0.596 | 0.130 | 19.71 | 23.00 | 2.240 | No |
| Back Side | 20300/1745 | 20M QPSK 1RB#0 | 1.060 | 0.600 | 0.020 | 19.60 | 23.00 | 2.319 | No |
| Left Side | 20050/1720 | 20M QPSK 1RB#0 | 0.219 | 0.125 | 0.120 | 19.79 | 23.00 | 0.459 | Yes |
| Right Side | 20050/1720 | 20M QPSK 1RB#0 | 0.090 | 0.052 | 0.130 | 19.79 | 23.00 | 0.189 | Yes |
| Bottom Side | 20050/1720 | 20M QPSK 1RB#0 | 1.180 | 0.642 | 0.030 | 19.79 | 23.00 | 2.471 | No |
| Bottom Side | 20175/1732.5 | 20M QPSK 1RB#0 | 1.260 | 0.692 | -0.080 | 19.71 | 23.00 | 2.688 | No |
| Bottom Side | 20300/1745 | 20M QPSK 1RB#0 | 1.290 | 0.709 | 0.060 | 19.60 | 23.00 | 2.822 | No |
| Bottom Side-Reteaped | 20300/1745 | 20M QPSK 1RB#0 | 1.230 | 0.676 | 0.070 | 19.60 | 23.00 | 2.691 | No |
| 50%RB | | | | | | | | | |
| Front Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.749 | 0.426 | 0.090 | 19.25 | 22.00 | 1.411 | No |
| Front Side | 20050/1720 | 20M QPSK 50%RB#0 | 0.723 | 0.412 | 0.100 | 19.21 | 22.00 | 1.374 | No |
| Front Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.717 | 0.408 | 0.040 | 19.23 | 22.00 | 1.357 | No |
| Back Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.961 | 0.543 | 0.100 | 19.25 | 22.00 | 1.810 | No |
| Back Side | 20050/1720 | 20M QPSK 50%RB#0 | 0.922 | 0.519 | 0.000 | 19.21 | 22.00 | 1.753 | No |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Back Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 0.919 | 0.519 | 0.010 | 19.23 | 22.00 | 1.739 | No |
| Left Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.280 | 0.128 | 0.120 | 19.25 | 22.00 | 0.527 | Yes |
| Right Side | 20300/1745 | 20M QPSK 50%RB#0 | 0.099 | 0.056 | 0.180 | 19.25 | 22.00 | 0.186 | Yes |
| Bottom Side | 20300/1745 | 20M QPSK 50%RB#0 | 1.160 | 0.629 | 0.040 | 19.25 | 22.00 | 2.185 | No |
| Bottom Side | 20050/1720 | 20M QPSK 50%RB#0 | 1.110 | 0.606 | 0.030 | 19.21 | 22.00 | 2.110 | No |
| Bottom Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 1.120 | 0.609 | 0.040 | 19.23 | 22.00 | 2.119 | No |
| 100%RB | | | | | | | | | |
| Front Side | 20300/1745 | 20M QPSK 100%RB#0 | 0.727 | 0.414 | -0.050 | 19.18 | 22.00 | 1.392 | No |
| Back Side | 20300/1745 | 20M QPSK 100%RB#0 | 0.932 | 0.526 | 0.040 | 19.18 | 22.00 | 1.784 | No |
| Bottom Side | 20300/1745 | 20M QPSK 100%RB#0 | 1.180 | 0.641 | -0.080 | 19.18 | 22.00 | 2.259 | No |

Table 198: 10-g Extremity SAR test reduction evaluation of LTE Band IV

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Front Side** and **Back Side** and **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{10-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20175/1732.5 | 20M QPSK 1RB#0 | 7.480 | 3.350 | 0.150 | 22.67 | 23.00 | 3.614 | 21.8°C |
| Front Side | 20050/1720 | 20M QPSK 1RB#0 | 7.160 | 3.170 | 0.130 | 22.42 | 23.00 | 3.623 | 21.8°C |
| Front Side | 20300/1745 | 20M QPSK 1RB#0 | 7.570 | 3.340 | 0.020 | 22.66 | 23.00 | 3.612 | 21.8°C |
| Front Side-Repeated | 20175/1732.5 | 20M QPSK 1RB#0 | 7.380 | 3.260 | 0.190 | 22.66 | 23.00 | 3.525 | 21.8°C |
| Back Side | 20175/1732.5 | 20M QPSK 1RB#0 | 6.700 | 2.990 | 0.120 | 22.67 | 23.00 | 3.226 | 21.8°C |
| Back Side | 20050/1720 | 20M QPSK 1RB#0 | 6.830 | 3.050 | 0.160 | 22.42 | 23.00 | 3.486 | 21.8°C |
| Back Side | 20300/1745 | 20M QPSK 1RB#0 | 7.040 | 3.140 | 0.000 | 22.66 | 23.00 | 3.396 | 21.8°C |
| Bottom Side | 20175/1732.5 | 20M QPSK 1RB#0 | 6.250 | 2.580 | 0.150 | 22.67 | 23.00 | 2.784 | 21.8°C |
| Bottom Side | 20050/1720 | 20M QPSK 1RB#0 | 6.290 | 2.590 | -0.140 | 22.42 | 23.00 | 2.960 | 21.8°C |
| Bottom Side | 20300/1745 | 20M QPSK 1RB#0 | 6.050 | 2.530 | 0.100 | 22.66 | 23.00 | 2.736 | 21.8°C |
| 50%RB | | | | | | | | | |
| Front Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 4.730 | 2.110 | 0.150 | 21.12 | 22.00 | 2.584 | 21.8°C |
| Front Side | 20050/1720 | 20M QPSK 50%RB#0 | 4.510 | 2.010 | 0.150 | 20.93 | 22.00 | 2.572 | 21.8°C |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Front Side | 20300/1745 | 20M QPSK 50%RB#0 | 5.090 | 2.260 | 0.170 | 21.06 | 22.00 | 2.806 | 21.8°C |
| Back Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 4.910 | 2.110 | 0.120 | 21.12 | 22.00 | 2.584 | 21.8°C |
| Back Side | 20050/1720 | 20M QPSK 50%RB#0 | 4.650 | 2.010 | 0.170 | 20.93 | 22.00 | 2.572 | 21.8°C |
| Back Side | 20300/1745 | 20M QPSK 50%RB#0 | 5.170 | 2.220 | 0.180 | 21.06 | 22.00 | 2.756 | 21.8°C |
| Bottom Side | 20175/1732.5 | 20M QPSK 50%RB#0 | 4.190 | 1.660 | 0.050 | 21.12 | 22.00 | 2.033 | 21.8°C |
| Bottom Side | 20050/1720 | 20M QPSK 50%RB#0 | 4.480 | 1.860 | -0.110 | 20.93 | 22.00 | 2.380 | 21.8°C |
| Bottom Side | 20300/1745 | 20M QPSK 50%RB#0 | 4.110 | 1.700 | -0.130 | 21.06 | 22.00 | 2.111 | 21.8°C |
| 100%RB | | | | | | | | | |
| Front Side | 20175/1732.5 | 20M QPSK 100%RB#0 | 4.810 | 2.130 | 0.010 | 20.98 | 22.00 | 2.694 | 21.8°C |
| Back Side | 20175/1732.5 | 20M QPSK 100%RB#0 | 4.850 | 2.090 | 0.000 | 20.98 | 22.00 | 2.643 | 21.8°C |
| Bottom Side | 20175/1732.5 | 20M QPSK 100%RB#0 | 4.210 | 1.710 | -0.110 | 20.98 | 22.00 | 2.163 | 21.8°C |

Table 199: 10-g Extremity SAR results of LTE Band IV

### 7.2.20 SAR measurement Result of LTE Band V (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 20600/844 | 10M QPSK 1RB#0 | 0.183 | 0.127 | 0.010 | 22.40 | 23.50 | 0.236 | 21.4°C |
| Left Hand Tilted 15° | 20600/844 | 10M QPSK 1RB#0 | 0.127 | 0.086 | 0.090 | 22.40 | 23.50 | 0.164 | 21.4°C |
| Right Hand Touched | 20600/844 | 10M QPSK 1RB#0 | 0.247 | 0.193 | 0.190 | 22.40 | 23.50 | 0.318 | 21.4°C |
| Right Hand Tilted 15° | 20600/844 | 10M QPSK 1RB#0 | 0.120 | 0.084 | 0.030 | 22.40 | 23.50 | 0.155 | 21.4°C |
| Right Hand Touched | 20450/829 | 10M QPSK 1RB#25 | 0.211 | 0.146 | 0.190 | 22.37 | 23.50 | 0.274 | 21.4°C |
| Right Hand Touched | 20525/836.5 | 10M QPSK 1RB#49 | 0.242 | 0.191 | 0.200 | 22.39 | 23.50 | 0.312 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 20525/836.5 | 10M QPSK 50%RB#0 | 0.142 | 0.099 | 0.130 | 21.34 | 22.50 | 0.185 | 21.4°C |
| Left Hand Tilted 15° | 20525/836.5 | 10M QPSK 50%RB#0 | 0.100 | 0.067 | 0.180 | 21.34 | 22.50 | 0.130 | 21.4°C |
| Right Hand Touched | 20525/836.5 | 10M QPSK 50%RB#0 | 0.179 | 0.124 | 0.110 | 21.34 | 22.50 | 0.234 | 21.4°C |
| Right Hand Tilted 15° | 20525/836.5 | 10M QPSK 50%RB#0 | 0.086 | 0.061 | 0.150 | 21.34 | 22.50 | 0.112 | 21.4°C |

Table 200: Head SAR test results of LTE Band V

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20600/844 | 10M QPSK 1RB#0 | 0.230 | 0.176 | -0.090 | 22.40 | 23.50 | 0.296 | 21.5°C |
| Back Side | 20600/844 | 10M QPSK 1RB#0 | 0.214 | 0.164 | 0.050 | 22.40 | 23.50 | 0.276 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 20525/836.5 | 10M QPSK 50%RB#0 | 0.155 | 0.109 | -0.020 | 21.34 | 22.50 | 0.202 | 21.5°C |
| Back Side | 20525/836.5 | 10M QPSK 50%RB#0 | 0.160 | 0.113 | 0.020 | 21.34 | 22.50 | 0.209 | 21.5°C |

Table 201: Body-Worn SAR test results of LTE Band V

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20600/844 | 10M QPSK 1RB#49 | 0.410 | 0.231 | 0.010 | 21.23 | 22.50 | 0.549 | 21.5°C |
| Back Side | 20600/844 | 10M QPSK 1RB#49 | 0.431 | 0.243 | 0.060 | 21.23 | 22.50 | 0.577 | 21.5°C |
| Left Side | 20600/844 | 10M QPSK 1RB#49 | 0.140 | 0.094 | -0.030 | 21.23 | 22.50 | 0.188 | 21.5°C |
| Right Side | 20600/844 | 10M QPSK 1RB#49 | 0.331 | 0.225 | 0.010 | 21.23 | 22.50 | 0.443 | 21.5°C |
| Bottom Side | 20600/844 | 10M QPSK 1RB#49 | 0.230 | 0.115 | -0.020 | 21.23 | 22.50 | 0.308 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 20600/844 | 10M QPSK 50%RB#0 | 0.360 | 0.225 | 0.040 | 21.22 | 21.50 | 0.384 | 21.5°C |
| Back Side | 20600/844 | 10M QPSK 50%RB#0 | 0.424 | 0.264 | 0.030 | 21.22 | 21.50 | 0.452 | 21.5°C |
| Left Side | 20600/844 | 10M QPSK 50%RB#0 | 0.125 | 0.084 | 0.040 | 21.22 | 21.50 | 0.133 | 21.5°C |
| Right Side | 20600/844 | 10M QPSK 50%RB#0 | 0.307 | 0.206 | 0.010 | 21.22 | 21.50 | 0.327 | 21.5°C |
| Bottom Side | 20600/844 | 10M QPSK 50%RB#0 | 0.195 | 0.099 | 0.000 | 21.22 | 21.50 | 0.208 | 21.5°C |

Table 202: Hotspot SAR test results of LTE Band V

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20600/844 | 10M QPSK 1RB#49 | 0.410 | 0.231 | 0.010 | 21.23 | 23.50 | 0.691 | Yes |
| Back Side | 20600/844 | 10M QPSK 1RB#49 | 0.431 | 0.243 | 0.060 | 21.23 | 23.50 | 0.727 | Yes |
| Left Side | 20600/844 | 10M QPSK 1RB#49 | 0.140 | 0.094 | -0.030 | 21.23 | 23.50 | 0.236 | Yes |
| Right Side | 20600/844 | 10M QPSK 1RB#49 | 0.331 | 0.225 | 0.010 | 21.23 | 23.50 | 0.558 | Yes |
| Bottom Side | 20600/844 | 10M QPSK 1RB#49 | 0.230 | 0.115 | -0.020 | 21.23 | 23.50 | 0.388 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 20600/844 | 10M QPSK 50%RB#0 | 0.360 | 0.225 | 0.040 | 21.22 | 22.50 | 0.483 | Yes |
| Back Side | 20600/844 | 10M QPSK 50%RB#0 | 0.424 | 0.264 | 0.030 | 21.22 | 22.50 | 0.569 | Yes |
| Left Side | 20600/844 | 10M QPSK 50%RB#0 | 0.125 | 0.084 | 0.040 | 21.22 | 22.50 | 0.168 | Yes |
| Right Side | 20600/844 | 10M QPSK 50%RB#0 | 0.307 | 0.206 | 0.010 | 21.22 | 22.50 | 0.412 | Yes |
| Bottom Side | 20600/844 | 10M QPSK 50%RB#0 | 0.195 | 0.099 | 0.000 | 21.22 | 22.50 | 0.262 | Yes |

Table 203: 10-g Extremity SAR test reduction evaluation of LTE Band V

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.21 SAR measurement Result of LTE Band VII (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 21350/2560 | 20M QPSK 1RB#50 | 0.326 | 0.183 | 0.040 | 22.13 | 22.80 | 0.380 | 21.5°C |
| Left Hand Tilted 15° | 21350/2560 | 20M QPSK 1RB#50 | 0.082 | 0.043 | -0.060 | 22.13 | 22.80 | 0.095 | 21.5°C |
| Right Hand Touched | 21350/2560 | 20M QPSK 1RB#50 | 0.169 | 0.091 | 0.020 | 22.13 | 22.80 | 0.197 | 21.5°C |
| Right Hand Tilted 15° | 21350/2560 | 20M QPSK 1RB#50 | 0.108 | 0.054 | -0.010 | 22.13 | 22.80 | 0.126 | 21.5°C |
| Left Hand Touched | 20850/2510 | 20M QPSK 1RB#50 | 0.426 | 0.242 | -0.150 | 22.07 | 22.80 | 0.504 | 21.5°C |
| Left Hand Touched | 21100/2535 | 20M QPSK 1RB#50 | 0.405 | 0.229 | 0.050 | 22.12 | 22.80 | 0.474 | 21.5°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 21100/2535 | 20M QPSK 50%RB#25 | 0.305 | 0.165 | 0.120 | 21.16 | 21.80 | 0.353 | 21.5°C |
| Left Hand Tilted 15° | 21100/2535 | 20M QPSK 50%RB#25 | 0.080 | 0.042 | 0.090 | 21.16 | 21.80 | 0.092 | 21.5°C |
| Right Hand Touched | 21100/2535 | 20M QPSK 50%RB#25 | 0.143 | 0.079 | -0.040 | 21.16 | 21.80 | 0.166 | 21.5°C |
| Right Hand Tilted 15° | 21100/2535 | 20M QPSK 50%RB#25 | 0.114 | 0.057 | 0.020 | 21.16 | 21.80 | 0.132 | 21.5°C |

Table 204: Head SAR test results of LTE Band VII

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 21350/2560 | 20M QPSK 1RB#50 | 0.423 | 0.220 | 0.150 | 22.13 | 22.80 | 0.494 | 21.5°C |
| Back Side | 21350/2560 | 20M QPSK 1RB#50 | 0.380 | 0.193 | 0.160 | 22.13 | 22.80 | 0.443 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 21100/2535 | 20M QPSK 50%RB#25 | 0.322 | 0.175 | 0.150 | 21.16 | 21.80 | 0.373 | 21.5°C |
| Back Side | 21100/2535 | 20M QPSK 50%RB#25 | 0.294 | 0.159 | 0.180 | 21.16 | 21.80 | 0.341 | 21.5°C |

Table 205: Body-Worn SAR test results of LTE Band VII

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20850/2510 | 20M QPSK 1RB#50 | 0.450 | 0.226 | -0.080 | 19.41 | 20.00 | 0.515 | 21.5°C |
| Back Side | 20850/2510 | 20M QPSK 1RB#50 | 0.551 | 0.254 | 0.100 | 19.41 | 20.00 | 0.631 | 21.5°C |
| Left Side | 20850/2510 | 20M QPSK 1RB#50 | 0.227 | 0.116 | 0.150 | 19.41 | 20.00 | 0.260 | 21.5°C |
| Right Side | 20850/2510 | 20M QPSK 1RB#50 | 0.040 | 0.024 | 0.170 | 19.41 | 20.00 | 0.046 | 21.5°C |
| Bottom Side | 20850/2510 | 20M QPSK 1RB#50 | 1.160 | 0.547 | 0.010 | 19.41 | 20.00 | 1.329 | 21.5°C |
| Bottom Side-repeated | 20850/2510 | 20M QPSK 1RB#50 | 1.150 | 0.538 | -0.100 | 19.41 | 20.00 | 1.317 | 21.5°C |
| Bottom Side | 21100/2535 | 20M QPSK 1RB#50 | 1.060 | 0.500 | -0.080 | 19.39 | 20.00 | 1.220 | 21.5°C |
| Bottom Side | 21350/2560 | 20M QPSK 1RB#50 | 0.957 | 0.452 | 0.000 | 19.40 | 20.00 | 1.099 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.412 | 0.216 | 0.080 | 19.39 | 20.00 | 0.474 | 21.5°C |
| Back Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.437 | 0.211 | -0.100 | 19.39 | 20.00 | 0.503 | 21.5°C |
| Left Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.208 | 0.107 | -0.150 | 19.39 | 20.00 | 0.239 | 21.5°C |
| Right Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.034 | 0.020 | 0.140 | 19.39 | 20.00 | 0.039 | 21.5°C |
| Bottom Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.968 | 0.452 | 0.060 | 19.39 | 20.00 | 1.114 | 21.5°C |
| Bottom Side | 20850/2510 | 20M QPSK 50%RB#25 | 1.140 | 0.532 | -0.130 | 19.33 | 20.00 | 1.330 | 21.5°C |
| Bottom Side | 21100/2535 | 20M QPSK 50%RB#0 | 1.120 | 0.520 | -0.060 | 19.36 | 20.00 | 1.298 | 21.5°C |
| 100%RB | | | | | | | | | |
| Bottom Side | 21100/2535 | 20M QPSK 100%RB#0 | 1.050 | 0.491 | -0.090 | 19.25 | 20.00 | 1.248 | 21.5°C |

Table 206: Hotspot SAR test results of LTE Band VII

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 20850/2510 | 20M QPSK 1RB#50 | 0.450 | 0.226 | -0.080 | 19.41 | 22.80 | 0.982 | Yes |
| Back Side | 20850/2510 | 20M QPSK 1RB#50 | 0.551 | 0.254 | 0.100 | 19.41 | 22.80 | 1.203 | No |
| Left Side | 20850/2510 | 20M QPSK 1RB#50 | 0.227 | 0.116 | 0.150 | 19.41 | 22.80 | 0.495 | Yes |
| Right Side | 20850/2510 | 20M QPSK 1RB#50 | 0.040 | 0.024 | 0.170 | 19.41 | 22.80 | 0.088 | Yes |
| Bottom Side | 20850/2510 | 20M QPSK 1RB#50 | 1.160 | 0.547 | 0.010 | 19.41 | 22.80 | 2.532 | No |
| Bottom Side-repeated | 20850/2510 | 20M QPSK 1RB#50 | 1.150 | 0.538 | -0.100 | 19.41 | 22.80 | 2.510 | No |
| Bottom Side | 21100/2535 | 20M QPSK 1RB#50 | 1.060 | 0.500 | -0.080 | 19.39 | 22.80 | 2.324 | No |
| Bottom Side | 21350/2560 | 20M QPSK 1RB#50 | 0.957 | 0.452 | 0.000 | 19.40 | 22.80 | 2.094 | No |
| 50%RB | | | | | | | | | |
| Front Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.412 | 0.216 | 0.080 | 19.39 | 21.80 | 0.718 | Yes |
| Back Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.437 | 0.211 | -0.100 | 19.39 | 21.80 | 0.761 | Yes |
| Left Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.208 | 0.107 | -0.150 | 19.39 | 21.80 | 0.362 | Yes |
| Right Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.034 | 0.020 | 0.140 | 19.39 | 21.80 | 0.058 | Yes |
| Bottom Side | 21350/2560 | 20M QPSK 50%RB#25 | 0.968 | 0.452 | 0.060 | 19.39 | 21.80 | 1.686 | No |
| Bottom Side | 20850/2510 | 20M QPSK 50%RB#25 | 1.140 | 0.532 | -0.130 | 19.33 | 21.80 | 2.013 | No |
| Bottom Side | 21100/2535 | 20M QPSK 50%RB#0 | 1.120 | 0.520 | -0.060 | 19.36 | 21.80 | 1.964 | No |
| 100%RB | | | | | | | | | |
| Bottom Side | 21100/2535 | 20M QPSK 100%RB#0 | 1.050 | 0.491 | -0.090 | 19.25 | 21.80 | 1.889 | No |

Table 207: 10-g Extremity SAR test reduction evaluation of LTE Band VII

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Back Side** and **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{10-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Back Side | 21350/2560 | 20M QPSK 1RB#50 | 9.290 | 3.100 | 0.120 | 22.13 | 22.80 | 3.617 | 21.5°C |
| Back Side-reteaped | 21350/2560 | 20M QPSK 1RB#50 | 9.160 | 3.050 | 0.090 | 22.13 | 22.80 | 3.559 | 21.5°C |
| Back Side | 20850/2510 | 20M QPSK 1RB#50 | 9.140 | 3.010 | 0.070 | 22.07 | 22.80 | 3.561 | 21.5°C |
| Back Side | 21100/2535 | 20M QPSK 1RB#50 | 9.270 | 3.060 | 0.120 | 22.12 | 22.80 | 3.579 | 21.5°C |
| Bottom Side | 21350/2560 | 20M QPSK 1RB#50 | 3.860 | 1.160 | -0.180 | 22.13 | 22.80 | 1.353 | 21.5°C |
| 50%RB | | | | | | | | | |
| Back Side | 21100/2535 | 20M QPSK 50%RB#25 | 7.710 | 2.520 | 0.120 | 21.16 | 21.80 | 2.920 | 21.5°C |
| Back Side | 20850/2510 | 20M QPSK 50%RB#25 | 7.450 | 2.430 | 0.180 | 20.98 | 21.80 | 2.935 | 21.5°C |
| Back Side | 21350/2560 | 20M QPSK 50%RB#25 | 7.450 | 2.460 | 0.120 | 21.05 | 21.80 | 2.924 | 21.5°C |
| Bottom Side | 21100/2535 | 20M QPSK 50%RB#25 | 3.310 | 0.992 | -0.120 | 21.16 | 21.80 | 1.150 | 21.5°C |
| 100%RB | | | | | | | | | |
| Back Side | 21100/2535 | 20M QPSK 100%RB#0 | 7.200 | 2.380 | 0.140 | 21.07 | 21.80 | 2.816 | 21.5°C |

Table 208: 10-g Extremity SAR results of LTE Band VII

### 7.2.22 SAR measurement Result of LTE Band XII (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 23095/707.5 | 10M QPSK 1RB#49 | 0.113 | 0.080 | 0.120 | 22.55 | 23.50 | 0.141 | 21.4°C |
| Left Hand Tilted 15° | 23095/707.5 | 10M QPSK 1RB#49 | 0.081 | 0.054 | 0.120 | 22.55 | 23.50 | 0.101 | 21.4°C |
| Right Hand Touched | 23095/707.5 | 10M QPSK 1RB#49 | 0.136 | 0.096 | 0.080 | 22.55 | 23.50 | 0.169 | 21.4°C |
| Right Hand Tilted 15° | 23095/707.5 | 10M QPSK 1RB#49 | 0.065 | 0.046 | 0.080 | 22.55 | 23.50 | 0.081 | 21.4°C |
| Right Hand Touched | 23060/704 | 10M QPSK 1RB#49 | 0.131 | 0.104 | 0.010 | 22.40 | 23.50 | 0.169 | 21.4°C |
| Right Hand Touched | 23130/711 | 10M QPSK 1RB#49 | 0.143 | 0.114 | 0.000 | 22.54 | 23.50 | 0.178 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 23095/707.5 | 10M QPSK 50%RB#25 | 0.086 | 0.061 | 0.020 | 21.36 | 22.50 | 0.112 | 21.4°C |
| Left Hand Tilted 15° | 23095/707.5 | 10M QPSK 50%RB#25 | 0.064 | 0.042 | 0.070 | 21.36 | 22.50 | 0.083 | 21.4°C |
| Right Hand Touched | 23095/707.5 | 10M QPSK 50%RB#25 | 0.105 | 0.074 | 0.070 | 21.36 | 22.50 | 0.137 | 21.4°C |
| Right Hand Tilted 15° | 23095/707.5 | 10M QPSK 50%RB#25 | 0.051 | 0.036 | 0.010 | 21.36 | 22.50 | 0.066 | 21.4°C |

Table 209: Head SAR test results of LTE Band XII

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23095/707.5 | 10M QPSK 1RB#49 | 0.167 | 0.133 | 0.010 | 22.55 | 23.50 | 0.208 | 21.4°C |
| Back Side | 23095/707.5 | 10M QPSK 1RB#49 | 0.169 | 0.134 | 0.000 | 22.55 | 23.50 | 0.210 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23095/707.5 | 10M QPSK 50%RB#25 | 0.129 | 0.093 | 0.030 | 21.36 | 22.50 | 0.168 | 21.4°C |
| Back Side | 23095/707.5 | 10M QPSK 50%RB#25 | 0.132 | 0.095 | -0.010 | 21.36 | 22.50 | 0.172 | 21.4°C |

Table 210: Body-Worn SAR test results of LTE Band XII

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 1RB#49 | 0.153 | 0.109 | -0.150 | 21.23 | 22.50 | 0.205 | 21.4°C |
| Back Side | 23130/711 | 10M QPSK 1RB#49 | 0.179 | 0.138 | -0.100 | 21.23 | 22.50 | 0.240 | 21.4°C |
| Left Side | 23130/711 | 10M QPSK 1RB#49 | 0.109 | 0.075 | -0.140 | 21.23 | 22.50 | 0.146 | 21.4°C |
| Right Side | 23130/711 | 10M QPSK 1RB#49 | 0.220 | 0.157 | 0.160 | 21.23 | 22.50 | 0.295 | 21.4°C |
| Bottom Side | 23130/711 | 10M QPSK 1RB#49 | 0.082 | 0.047 | -0.050 | 21.23 | 22.50 | 0.110 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 50%RB#0 | 0.133 | 0.096 | -0.080 | 21.22 | 21.50 | 0.142 | 21.4°C |
| Back Side | 23130/711 | 10M QPSK 50%RB#0 | 0.156 | 0.106 | -0.060 | 21.22 | 21.50 | 0.166 | 21.4°C |
| Left Side | 23130/711 | 10M QPSK 50%RB#0 | 0.101 | 0.069 | -0.110 | 21.22 | 21.50 | 0.108 | 21.4°C |
| Right Side | 23130/711 | 10M QPSK 50%RB#0 | 0.192 | 0.132 | -0.150 | 21.22 | 21.50 | 0.205 | 21.4°C |
| Bottom Side | 23130/711 | 10M QPSK 50%RB#0 | 0.065 | 0.038 | -0.180 | 21.22 | 21.50 | 0.069 | 21.4°C |

Table 211: Hotspot SAR test results of LTE Band XII

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 1RB#49 | 0.153 | 0.109 | -0.150 | 21.23 | 23.50 | 0.258 | Yes |
| Back Side | 23130/711 | 10M QPSK 1RB#49 | 0.179 | 0.138 | -0.100 | 21.23 | 23.50 | 0.302 | Yes |
| Left Side | 23130/711 | 10M QPSK 1RB#49 | 0.109 | 0.075 | -0.140 | 21.23 | 23.50 | 0.184 | Yes |
| Right Side | 23130/711 | 10M QPSK 1RB#49 | 0.220 | 0.157 | 0.160 | 21.23 | 23.50 | 0.371 | Yes |
| Bottom Side | 23130/711 | 10M QPSK 1RB#49 | 0.082 | 0.047 | -0.050 | 21.23 | 23.50 | 0.138 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 23130/711 | 10M QPSK 50%RB#0 | 0.133 | 0.096 | -0.080 | 21.22 | 22.50 | 0.179 | Yes |
| Back Side | 23130/711 | 10M QPSK 50%RB#0 | 0.156 | 0.106 | -0.060 | 21.22 | 22.50 | 0.209 | Yes |
| Left Side | 23130/711 | 10M QPSK 50%RB#0 | 0.101 | 0.069 | -0.110 | 21.22 | 22.50 | 0.136 | Yes |
| Right Side | 23130/711 | 10M QPSK 50%RB#0 | 0.192 | 0.132 | -0.150 | 21.22 | 22.50 | 0.258 | Yes |
| Bottom Side | 23130/711 | 10M QPSK 50%RB#0 | 0.065 | 0.038 | -0.180 | 21.22 | 22.50 | 0.087 | Yes |

Table 212: 10-g Extremity SAR test reduction evaluation of LTE Band XII

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.23 SAR measurement Result of LTE Band XIII (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 23230/782 | 10M QPSK 1RB#49 | 0.149 | 0.118 | -0.140 | 22.36 | 23.50 | 0.194 | 21.4°C |
| Left Hand Tilted 15° | 23230/782 | 10M QPSK 1RB#49 | 0.087 | 0.055 | 0.190 | 22.36 | 23.50 | 0.113 | 21.4°C |
| Right Hand Touched | 23230/782 | 10M QPSK 1RB#49 | 0.192 | 0.150 | -0.100 | 22.36 | 23.50 | 0.250 | 21.4°C |
| Right Hand Tilted 15° | 23230/782 | 10M QPSK 1RB#49 | 0.095 | 0.067 | -0.010 | 22.36 | 23.50 | 0.124 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 23230/782 | 10M QPSK 50%RB#0 | 0.119 | 0.083 | -0.070 | 21.41 | 22.50 | 0.153 | 21.4°C |
| Left Hand Tilted 15° | 23230/782 | 10M QPSK 50%RB#0 | 0.089 | 0.058 | 0.080 | 21.41 | 22.50 | 0.115 | 21.4°C |
| Right Hand Touched | 23230/782 | 10M QPSK 50%RB#0 | 0.151 | 0.106 | 0.070 | 21.41 | 22.50 | 0.194 | 21.4°C |
| Right Hand Tilted 15° | 23230/782 | 10M QPSK 50%RB#0 | 0.071 | 0.051 | 0.130 | 21.41 | 22.50 | 0.092 | 21.4°C |

Table 213: Head SAR test results of LTE Band XIII

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 1RB#49 | 0.235 | 0.184 | 0.080 | 22.36 | 23.50 | 0.306 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 1RB#49 | 0.193 | 0.149 | -0.090 | 22.36 | 23.50 | 0.251 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 50%RB#0 | 0.167 | 0.119 | 0.010 | 21.41 | 22.50 | 0.215 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 50%RB#0 | 0.170 | 0.121 | 0.000 | 21.41 | 22.50 | 0.218 | 21.4°C |

Table 214: Body-Worn SAR test results of LTE Band XIII

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 1RB#49 | 0.234 | 0.150 | -0.050 | 21.12 | 22.50 | 0.322 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 1RB#49 | 0.252 | 0.151 | -0.040 | 21.12 | 22.50 | 0.346 | 21.4°C |
| Left Side | 23230/782 | 10M QPSK 1RB#49 | 0.130 | 0.088 | -0.150 | 21.12 | 22.50 | 0.179 | 21.4°C |
| Right Side | 23230/782 | 10M QPSK 1RB#49 | 0.250 | 0.177 | -0.190 | 21.12 | 22.50 | 0.344 | 21.4°C |
| Bottom Side | 23230/782 | 10M QPSK 1RB#49 | 0.147 | 0.085 | -0.150 | 21.12 | 22.50 | 0.202 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 50%RB#0 | 0.220 | 0.142 | -0.060 | 21.17 | 21.50 | 0.237 | 21.4°C |
| Back Side | 23230/782 | 10M QPSK 50%RB#0 | 0.246 | 0.147 | -0.020 | 21.17 | 21.50 | 0.265 | 21.4°C |
| Left Side | 23230/782 | 10M QPSK 50%RB#0 | 0.145 | 0.097 | -0.190 | 21.17 | 21.50 | 0.156 | 21.4°C |
| Right Side | 23230/782 | 10M QPSK 50%RB#0 | 0.276 | 0.193 | -0.190 | 21.17 | 21.50 | 0.298 | 21.4°C |
| Bottom Side | 23230/782 | 10M QPSK 50%RB#0 | 0.131 | 0.075 | 0.030 | 21.17 | 21.50 | 0.141 | 21.4°C |

Table 215: Hotspot SAR test results of LTE Band XIII

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 1RB#49 | 0.234 | 0.150 | -0.050 | 21.12 | 23.50 | 0.405 | No |
| Back Side | 23230/782 | 10M QPSK 1RB#49 | 0.252 | 0.151 | -0.040 | 21.12 | 23.50 | 0.436 | No |
| Left Side | 23230/782 | 10M QPSK 1RB#49 | 0.130 | 0.088 | -0.150 | 21.12 | 23.50 | 0.225 | No |
| Right Side | 23230/782 | 10M QPSK 1RB#49 | 0.250 | 0.177 | -0.190 | 21.12 | 23.50 | 0.432 | No |
| Bottom Side | 23230/782 | 10M QPSK 1RB#49 | 0.147 | 0.085 | -0.150 | 21.12 | 23.50 | 0.254 | No |
| 50%RB | | | | | | | | | |
| Front Side | 23230/782 | 10M QPSK 50%RB#0 | 0.220 | 0.142 | -0.060 | 21.17 | 22.50 | 0.299 | No |
| Back Side | 23230/782 | 10M QPSK 50%RB#0 | 0.246 | 0.147 | -0.020 | 21.17 | 22.50 | 0.334 | No |
| Left Side | 23230/782 | 10M QPSK 50%RB#0 | 0.145 | 0.097 | -0.190 | 21.17 | 22.50 | 0.197 | No |
| Right Side | 23230/782 | 10M QPSK 50%RB#0 | 0.276 | 0.193 | -0.190 | 21.17 | 22.50 | 0.375 | No |
| Bottom Side | 23230/782 | 10M QPSK 50%RB#0 | 0.131 | 0.075 | 0.030 | 21.17 | 22.50 | 0.178 | No |

Table 216: 10-g Extremity SAR test reduction evaluation of LTE Band XIII

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.24 SAR measurement Result of LTE Band XVII (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 23800/711 | 10M QPSK 1RB#25 | 0.116 | 0.093 | 0.150 | 22.38 | 23.50 | 0.150 | 21.4°C |
| Left Hand Tilted 15° | 23800/711 | 10M QPSK 1RB#25 | 0.094 | 0.062 | 0.160 | 22.38 | 23.50 | 0.122 | 21.4°C |
| Right Hand Touched | 23800/711 | 10M QPSK 1RB#25 | 0.141 | 0.112 | -0.060 | 22.38 | 23.50 | 0.182 | 21.4°C |
| Right Hand Tilted 15° | 23800/711 | 10M QPSK 1RB#25 | 0.061 | 0.048 | -0.180 | 22.38 | 23.50 | 0.079 | 21.4°C |
| Right Hand Touched | 23780/709 | 10M QPSK 1RB#0 | 0.126 | 0.101 | 0.020 | 22.32 | 23.50 | 0.165 | 21.4°C |
| Right Hand Touched | 23790/710 | 10M QPSK 1RB#49 | 0.140 | 0.112 | 0.130 | 22.38 | 23.50 | 0.181 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 23790/710 | 10M QPSK 50%RB#13 | 0.086 | 0.606 | 0.080 | 21.31 | 22.50 | 0.114 | 21.4°C |
| Left Hand Tilted 15° | 23790/710 | 10M QPSK 50%RB#13 | 0.071 | 0.045 | 0.180 | 21.31 | 22.50 | 0.094 | 21.4°C |
| Right Hand Touched | 23790/710 | 10M QPSK 50%RB#13 | 0.104 | 0.073 | 0.180 | 21.31 | 22.50 | 0.137 | 21.4°C |
| Right Hand Tilted 15° | 23790/710 | 10M QPSK 50%RB#13 | 0.051 | 0.034 | 0.070 | 21.31 | 22.50 | 0.066 | 21.4°C |

Table 217: Head SAR test results of LTE Band XVII

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23800/711 | 10M QPSK 1RB#25 | 0.170 | 0.134 | 0.060 | 22.38 | 23.50 | 0.220 | 21.4°C |
| Back Side | 23800/711 | 10M QPSK 1RB#25 | 0.179 | 0.141 | -0.050 | 22.38 | 23.50 | 0.232 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23790/710 | 10M QPSK 50%RB#13 | 0.130 | 0.094 | -0.010 | 21.31 | 22.50 | 0.171 | 21.4°C |
| Back Side | 23790/710 | 10M QPSK 50%RB#13 | 0.136 | 0.098 | -0.100 | 21.31 | 22.50 | 0.179 | 21.4°C |

Table 218: Body-Worn SAR test results of LTE Band XVII

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23790/710 | 10M QPSK 1RB#49 | 0.152 | 0.109 | 0.060 | 21.38 | 22.50 | 0.197 | 21.4°C |
| Back Side | 23790/710 | 10M QPSK 1RB#49 | 0.176 | 0.138 | -0.060 | 21.38 | 22.50 | 0.228 | 21.4°C |
| Left Side | 23790/710 | 10M QPSK 1RB#49 | 0.105 | 0.072 | -0.070 | 21.38 | 22.50 | 0.136 | 21.4°C |
| Right Side | 23790/710 | 10M QPSK 1RB#49 | 0.225 | 0.160 | -0.160 | 21.38 | 22.50 | 0.291 | 21.4°C |
| Bottom Side | 23790/710 | 10M QPSK 1RB#49 | 0.079 | 0.043 | -0.040 | 21.38 | 22.50 | 0.103 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 23790/710 | 10M QPSK 50%RB#25 | 0.147 | 0.106 | -0.060 | 21.11 | 21.50 | 0.161 | 21.4°C |
| Back Side | 23790/710 | 10M QPSK 50%RB#25 | 0.175 | 0.134 | -0.030 | 21.11 | 21.50 | 0.191 | 21.4°C |
| Left Side | 23790/710 | 10M QPSK 50%RB#25 | 0.104 | 0.071 | -0.100 | 21.11 | 21.50 | 0.114 | 21.4°C |
| Right Side | 23790/710 | 10M QPSK 50%RB#25 | 0.218 | 0.155 | -0.130 | 21.11 | 21.50 | 0.238 | 21.4°C |
| Bottom Side | 23790/710 | 10M QPSK 50%RB#25 | 0.074 | 0.040 | -0.010 | 21.11 | 21.50 | 0.081 | 21.4°C |

Table 219: Hotspot SAR test results of LTE Band XVII

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 23790/710 | 10M QPSK 1RB#49 | 0.152 | 0.109 | 0.060 | 21.38 | 23.50 | 0.248 | Yes |
| Back Side | 23790/710 | 10M QPSK 1RB#49 | 0.176 | 0.138 | -0.060 | 21.38 | 23.50 | 0.287 | Yes |
| Left Side | 23790/710 | 10M QPSK 1RB#49 | 0.105 | 0.072 | -0.070 | 21.38 | 23.50 | 0.171 | Yes |
| Right Side | 23790/710 | 10M QPSK 1RB#49 | 0.225 | 0.160 | -0.160 | 21.38 | 23.50 | 0.367 | Yes |
| Bottom Side | 23790/710 | 10M QPSK 1RB#49 | 0.079 | 0.043 | -0.040 | 21.38 | 23.50 | 0.129 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 23790/710 | 10M QPSK 50%RB#25 | 0.147 | 0.106 | -0.060 | 21.11 | 22.50 | 0.202 | Yes |
| Back Side | 23790/710 | 10M QPSK 50%RB#25 | 0.175 | 0.134 | -0.030 | 21.11 | 22.50 | 0.241 | Yes |
| Left Side | 23790/710 | 10M QPSK 50%RB#25 | 0.104 | 0.071 | -0.100 | 21.11 | 22.50 | 0.143 | Yes |
| Right Side | 23790/710 | 10M QPSK 50%RB#25 | 0.218 | 0.155 | -0.130 | 21.11 | 22.50 | 0.300 | Yes |
| Bottom Side | 23790/710 | 10M QPSK 50%RB#25 | 0.074 | 0.040 | -0.010 | 21.11 | 22.50 | 0.102 | Yes |

Table 220: 10-g Extremity SAR test reduction evaluation of LTE Band XVII

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.25 SAR measurement Result of LTE Band XXV (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 26590/1905 | 20M QPSK 1RB#0 | 0.111 | 0.073 | -0.050 | 22.51 | 22.70 | 0.116 | 22.0°C |
| Left Hand Tilted 15° | 26590/1905 | 20M QPSK 1RB#0 | 0.072 | 0.040 | 0.020 | 22.51 | 22.70 | 0.075 | 22.0°C |
| Right Hand Touched | 26590/1905 | 20M QPSK 1RB#0 | 0.132 | 0.086 | 0.130 | 22.51 | 22.70 | 0.138 | 22.0°C |
| Right Hand Tilted 15° | 26590/1905 | 20M QPSK 1RB#0 | 0.077 | 0.040 | 0.180 | 22.51 | 22.70 | 0.080 | 22.0°C |
| Right Hand Touched | 26140/1860 | 20M QPSK 1RB#0 | 0.156 | 0.102 | 0.110 | 22.45 | 22.70 | 0.165 | 22.0°C |
| Right Hand Touched | 26365/1882.5 | 20M QPSK 1RB#0 | 0.132 | 0.085 | 0.080 | 22.49 | 22.70 | 0.139 | 22.0°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 26590/1905 | 20M QPSK 50%RB#0 | 0.073 | 0.043 | 0.020 | 21.21 | 21.70 | 0.082 | 22.0°C |
| Left Hand Tilted 15° | 26590/1905 | 20M QPSK 50%RB#0 | 0.051 | 0.028 | 0.160 | 21.21 | 21.70 | 0.058 | 22.0°C |
| Right Hand Touched | 26590/1905 | 20M QPSK 50%RB#0 | 0.094 | 0.061 | 0.040 | 21.21 | 21.70 | 0.105 | 22.0°C |
| Right Hand Tilted 15° | 26590/1905 | 20M QPSK 50%RB#0 | 0.054 | 0.028 | 0.160 | 21.21 | 21.70 | 0.060 | 22.0°C |

Table 221: Head SAR test results of LTE Band XXV

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26590/1905 | 20M QPSK 1RB#0 | 0.690 | 0.407 | 0.050 | 22.51 | 22.70 | 0.721 | 22.0°C |
| Back Side | 26590/1905 | 20M QPSK 1RB#0 | 0.697 | 0.413 | -0.010 | 22.51 | 22.70 | 0.728 | 22.0°C |
| 50%RB | | | | | | | | | |
| Front Side | 26590/1905 | 20M QPSK 50%RB#0 | 0.430 | 0.249 | 0.120 | 21.21 | 21.70 | 0.481 | 22.0°C |
| Back Side | 26590/1905 | 20M QPSK 50%RB#0 | 0.454 | 0.254 | 0.110 | 21.21 | 21.70 | 0.508 | 22.0°C |

Table 222: Body-Worn SAR test results of LTE Band XXV

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26140/1860 | 20M QPSK 1RB#0 | 0.771 | 0.434 | 0.130 | 19.62 | 20.00 | 0.842 | 21.4°C |
| Front Side | 26365/1882.5 | 20M QPSK 1RB#0 | 0.747 | 0.416 | 0.070 | 19.47 | 20.00 | 0.844 | 21.4°C |
| Front Side | 26590/1905 | 20M QPSK 1RB#0 | 0.687 | 0.382 | 0.100 | 19.49 | 20.00 | 0.773 | 21.4°C |
| Back Side | 26140/1860 | 20M QPSK 1RB#0 | 0.798 | 0.447 | 0.170 | 19.62 | 20.00 | 0.871 | 21.4°C |
| Back Side | 26365/1882.5 | 20M QPSK 1RB#0 | 0.784 | 0.438 | -0.070 | 19.47 | 20.00 | 0.886 | 21.4°C |
| Back Side | 26590/1905 | 20M QPSK 1RB#0 | 0.709 | 0.395 | 0.040 | 19.49 | 20.00 | 0.797 | 21.4°C |
| Left Side | 26140/1860 | 20M QPSK 1RB#0 | 0.146 | 0.086 | 0.000 | 19.62 | 20.00 | 0.159 | 21.4°C |
| Right Side | 26140/1860 | 20M QPSK 1RB#0 | 0.056 | 0.032 | 0.020 | 19.62 | 20.00 | 0.062 | 21.4°C |
| Bottom Side | 26140/1860 | 20M QPSK 1RB#0 | 1.320 | 0.713 | -0.040 | 19.62 | 20.00 | 1.441 | 21.4°C |
| Bottom Side-repeated | 26140/1860 | 20M QPSK 1RB#0 | 1.260 | 0.685 | 0.000 | 19.62 | 20.00 | 1.375 | 21.4°C |
| Bottom Side | 26365/1882.5 | 20M QPSK 1RB#0 | 1.240 | 0.671 | -0.060 | 19.47 | 20.00 | 1.401 | 21.4°C |
| Bottom Side | 26590/1905 | 20M QPSK 1RB#0 | 1.180 | 0.631 | -0.070 | 19.49 | 20.00 | 1.327 | 21.4°C |
| 50%RB | | | | | | | | | |
| Front Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.598 | 0.340 | 0.190 | 19.14 | 20.00 | 0.729 | 21.4°C |
| Back Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.663 | 0.377 | 0.080 | 19.14 | 20.00 | 0.808 | 21.4°C |
| Back Side | 26365/1882.5 | 20M QPSK 50%RB#0 | 0.599 | 0.339 | 0.080 | 19.11 | 20.00 | 0.735 | 21.4°C |
| Back Side | 26590/1905 | 20M QPSK 50%RB#0 | 0.563 | 0.318 | -0.110 | 18.99 | 20.00 | 0.710 | 21.4°C |
| Left Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.125 | 0.070 | 0.150 | 19.14 | 20.00 | 0.152 | 21.4°C |
| Right Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.047 | 0.027 | 0.140 | 19.14 | 20.00 | 0.057 | 21.4°C |
| Bottom Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.951 | 0.519 | 0.010 | 19.14 | 20.00 | 1.159 | 21.4°C |
| Bottom Side | 26365/1882.5 | 20M QPSK 50%RB#0 | 0.953 | 0.516 | -0.080 | 19.11 | 20.00 | 1.170 | 21.4°C |
| Bottom Side | 26590/1905 | 20M QPSK 50%RB#0 | 0.908 | 0.490 | -0.040 | 18.99 | 20.00 | 1.146 | 21.4°C |
| 100%RB | | | | | | | | | |
| Front Side | 26140/1860 | 20M QPSK 100%RB#0 | 0.593 | 0.334 | 0.020 | 19.12 | 20.00 | 0.726 | 21.4°C |
| Back Side | 26140/1860 | 20M QPSK 100%RB#0 | 0.640 | 0.363 | 0.000 | 19.12 | 20.00 | 0.784 | 21.4°C |
| Bottom Side | 26140/1860 | 20M QPSK 100%RB#0 | 1.000 | 0.545 | -0.060 | 19.12 | 20.00 | 1.225 | 21.4°C |

Table 223: Hotspot SAR test results of LTE Band XXV

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26140/1860 | 20M QPSK 1RB#0 | 0.771 | 0.434 | 0.130 | 19.62 | 22.70 | 1.567 | No |
| Front Side | 26365/1882.5 | 20M QPSK 1RB#0 | 0.747 | 0.416 | 0.070 | 19.47 | 22.70 | 1.572 | No |
| Front Side | 26590/1905 | 20M QPSK 1RB#0 | 0.687 | 0.382 | 0.100 | 19.49 | 22.70 | 1.439 | No |
| Back Side | 26140/1860 | 20M QPSK 1RB#0 | 0.798 | 0.447 | 0.170 | 19.62 | 22.70 | 1.622 | No |
| Back Side | 26365/1882.5 | 20M QPSK 1RB#0 | 0.784 | 0.438 | -0.070 | 19.47 | 22.70 | 1.649 | No |
| Back Side | 26590/1905 | 20M QPSK 1RB#0 | 0.709 | 0.395 | 0.040 | 19.49 | 22.70 | 1.485 | No |
| Left Side | 26140/1860 | 20M QPSK 1RB#0 | 0.146 | 0.086 | 0.000 | 19.62 | 22.70 | 0.297 | Yes |
| Right Side | 26140/1860 | 20M QPSK 1RB#0 | 0.056 | 0.032 | 0.020 | 19.62 | 22.70 | 0.115 | Yes |
| Bottom Side | 26140/1860 | 20M QPSK 1RB#0 | 1.320 | 0.713 | -0.040 | 19.62 | 22.70 | 2.683 | No |
| Bottom Side-repeated | 26140/1860 | 20M QPSK 1RB#0 | 1.260 | 0.685 | 0.000 | 19.62 | 22.70 | 2.561 | No |
| Bottom Side | 26365/1882.5 | 20M QPSK 1RB#0 | 1.240 | 0.671 | -0.060 | 19.47 | 22.70 | 2.609 | No |
| Bottom Side | 26590/1905 | 20M QPSK 1RB#0 | 1.180 | 0.631 | -0.070 | 19.49 | 22.70 | 2.471 | No |
| 50%RB | | | | | | | | | |
| Front Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.598 | 0.340 | 0.190 | 19.14 | 21.70 | 1.078 | Yes |
| Back Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.663 | 0.377 | 0.080 | 19.14 | 21.70 | 1.195 | Yes |
| Back Side | 26365/1882.5 | 20M QPSK 50%RB#0 | 0.599 | 0.339 | 0.080 | 19.11 | 21.70 | 1.087 | Yes |
| Back Side | 26590/1905 | 20M QPSK 50%RB#0 | 0.563 | 0.318 | -0.110 | 18.99 | 21.70 | 1.051 | Yes |
| Left Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.125 | 0.070 | 0.150 | 19.14 | 21.70 | 0.225 | Yes |
| Right Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.047 | 0.027 | 0.140 | 19.14 | 21.70 | 0.085 | Yes |
| Bottom Side | 26140/1860 | 20M QPSK 50%RB#0 | 0.951 | 0.519 | 0.010 | 19.14 | 21.70 | 1.715 | No |
| Bottom Side | 26365/1882.5 | 20M QPSK 50%RB#0 | 0.953 | 0.516 | -0.080 | 19.11 | 21.70 | 1.730 | No |
| Bottom Side | 26590/1905 | 20M QPSK 50%RB#0 | 0.908 | 0.490 | -0.040 | 18.99 | 21.70 | 1.695 | No |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100%RB | | | | | | | | | |
| Front Side | 26140/1860 | 20M QPSK 100%RB#0 | 0.593 | 0.334 | 0.020 | 19.12 | 21.70 | 1.074 | Yes |
| Back Side | 26140/1860 | 20M QPSK 100%RB#0 | 0.640 | 0.363 | 0.000 | 19.12 | 21.70 | 1.159 | Yes |
| Bottom Side | 26140/1860 | 20M QPSK 100%RB#0 | 1.000 | 0.545 | -0.060 | 19.12 | 21.70 | 1.811 | No |

Table 224: 10-g Extremity SAR test reduction evaluation of LTE Band XXV

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Front Side** and **Back Side** and **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{10-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26590/1905 | 20M QPSK 1RB#0 | 6.020 | 2.770 | 0.140 | 22.51 | 22.70 | 2.894 | 20.3°C |
| Front Side | 26140/1860 | 20M QPSK 1RB#0 | 6.620 | 3.020 | 0.020 | 22.45 | 22.70 | 3.199 | 20.3°C |
| Front Side | 26365/1882.5 | 20M QPSK 1RB#0 | 6.350 | 2.910 | 0.060 | 22.49 | 22.70 | 3.054 | 20.3°C |
| Back Side | 26590/1905 | 20M QPSK 1RB#0 | 7.360 | 3.200 | 0.000 | 22.51 | 22.70 | 3.343 | 20.3°C |
| Back Side | 26140/1860 | 20M QPSK 1RB#0 | 7.590 | 3.320 | 0.170 | 22.45 | 22.70 | 3.517 | 20.3°C |
| Back Side-Reteaped | 26140/1860 | 20M QPSK 1RB#0 | 7.170 | 3.130 | 0.000 | 22.45 | 22.70 | 3.315 | 20.3°C |
| Back Side | 26365/1882.5 | 20M QPSK 1RB#0 | 7.490 | 3.280 | 0.000 | 22.49 | 22.70 | 3.442 | 20.3°C |
| Bottom Side | 26590/1905 | 20M QPSK 1RB#0 | 3.210 | 1.460 | -0.190 | 22.51 | 22.70 | 1.525 | 20.3°C |
| 50%RB | | | | | | | | | |
| Front Side | 26590/1905 | 20M QPSK 50%RB#0 | 4.180 | 1.910 | 0.000 | 21.21 | 21.70 | 2.138 | 20.3°C |
| Front Side | 26140/1860 | 20M QPSK 50%RB#0 | 4.530 | 2.060 | -0.130 | 21.05 | 21.70 | 2.393 | 20.3°C |
| Front Side | 26365/1882.5 | 20M QPSK 50%RB#0 | 4.400 | 1.990 | -0.060 | 21.15 | 21.70 | 2.259 | 20.3°C |
| Back Side | 26590/1905 | 20M QPSK 50%RB#0 | 4.930 | 2.100 | 0.190 | 21.21 | 21.70 | 2.351 | 20.3°C |
| Back Side | 26140/1860 | 20M QPSK 50%RB#0 | 5.190 | 2.240 | 0.000 | 21.05 | 21.70 | 2.602 | 20.3°C |
| Back Side | 26365/1882.5 | 20M QPSK 50%RB#0 | 5.080 | 2.190 | 0.000 | 21.15 | 21.70 | 2.486 | 20.3°C |
| Bottom Side | 26590/1905 | 20M QPSK 50%RB#0 | 2.030 | 0.889 | -0.160 | 21.21 | 21.70 | 0.995 | 20.3°C |
| 100%RB | | | | | | | | | |
| Front Side | 26590/1905 | 20M QPSK 100%RB#0 | 4.240 | 1.870 | 0.140 | 21.02 | 21.70 | 2.187 | 20.3°C |
| Back Side | 26590/1905 | 20M QPSK 100%RB#0 | 4.850 | 2.070 | 0.000 | 21.02 | 21.70 | 2.421 | 20.3°C |

Table 225: 10-g Extremity SAR results of LTE Band XXV

### 7.2.26 SAR measurement Result of LTE Band XXVI (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 26865/831.5 | 15M QPSK 1RB#0 | 0.171 | 0.135 | 0.070 | 22.33 | 23.50 | 0.224 | 21.4°C |
| Left Hand Tilted 15° | 26865/831.5 | 15M QPSK 1RB#0 | 0.122 | 0.093 | 0.130 | 22.33 | 23.50 | 0.160 | 21.4°C |
| Right Hand Touched | 26865/831.5 | 15M QPSK 1RB#0 | 0.193 | 0.152 | 0.030 | 22.33 | 23.50 | 0.253 | 21.4°C |
| Right Hand Tilted 15° | 26865/831.5 | 15M QPSK 1RB#0 | 0.099 | 0.080 | -0.050 | 22.33 | 23.50 | 0.130 | 21.4°C |
| Right Hand Touched | 26775/822.5 | 15M QPSK 1RB#0 | 0.186 | 0.144 | 0.170 | 22.17 | 23.50 | 0.253 | 21.4°C |
| Right Hand Touched | 26965/841.5 | 15M QPSK 1RB#74 | 0.234 | 0.182 | 0.110 | 22.24 | 23.50 | 0.313 | 21.4°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 26965/841.5 | 20M QPSK 50%RB#18 | 0.150 | 0.103 | 0.150 | 21.17 | 22.50 | 0.204 | 21.4°C |
| Left Hand Tilted 15° | 26965/841.5 | 20M QPSK 50%RB#18 | 0.096 | 0.067 | 0.080 | 21.17 | 22.50 | 0.130 | 21.4°C |
| Right Hand Touched | 26965/841.5 | 20M QPSK 50%RB#18 | 0.178 | 0.123 | 0.120 | 21.17 | 22.50 | 0.242 | 21.4°C |
| Right Hand Tilted 15° | 26965/841.5 | 20M QPSK 50%RB#18 | 0.093 | 0.065 | 0.110 | 21.17 | 22.50 | 0.127 | 21.4°C |

Table 226: Head SAR test results of LTE Band XXVI

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26865/831.5 | 15M QPSK 1RB#0 | 0.193 | 0.146 | 0.010 | 22.33 | 23.50 | 0.253 | 21.5°C |
| Back Side | 26865/831.5 | 15M QPSK 1RB#0 | 0.202 | 0.155 | 0.090 | 22.33 | 23.50 | 0.264 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.150 | 0.106 | 0.000 | 21.17 | 22.50 | 0.204 | 21.5°C |
| Back Side | 26965/841.5 | 15M QPSK 50%RB#18 | 0.156 | 0.110 | 0.070 | 21.17 | 22.50 | 0.212 | 21.5°C |

Table 227: Body-Worn SAR test results of LTE Band XXVI

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.160 | 0.093 | -0.090 | 21.19 | 22.50 | 0.216 | 21.5°C |
| Back Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.195 | 0.113 | -0.140 | 21.19 | 22.50 | 0.264 | 21.5°C |
| Left Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.101 | 0.068 | 0.060 | 21.19 | 22.50 | 0.137 | 21.5°C |
| Right Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.227 | 0.152 | 0.130 | 21.19 | 22.50 | 0.307 | 21.5°C |
| Bottom Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.124 | 0.073 | 0.096 | 21.19 | 22.50 | 0.168 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.209 | 0.122 | 0.020 | 21.15 | 21.50 | 0.227 | 21.5°C |
| Back Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.276 | 0.157 | 0.010 | 21.15 | 21.50 | 0.299 | 21.5°C |
| Left Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.098 | 0.066 | 0.080 | 21.15 | 21.50 | 0.106 | 21.5°C |
| Right Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.227 | 0.152 | 0.060 | 21.15 | 21.50 | 0.246 | 21.5°C |
| Bottom Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.129 | 0.076 | 0.050 | 21.15 | 21.50 | 0.140 | 21.5°C |

Table 228: Hotspot SAR test results of LTE Band XXVI

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.160 | 0.093 | -0.090 | 21.19 | 23.50 | 0.272 | Yes |
| Back Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.195 | 0.113 | -0.140 | 21.19 | 23.50 | 0.332 | Yes |
| Left Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.101 | 0.068 | 0.060 | 21.19 | 23.50 | 0.172 | Yes |
| Right Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.227 | 0.152 | 0.130 | 21.19 | 23.50 | 0.386 | Yes |
| Bottom Side | 26775/822.5 | 15M QPSK 1RB#0 | 0.124 | 0.073 | 0.096 | 21.19 | 23.50 | 0.211 | Yes |
| 50%RB | | | | | | | | | |
| Front Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.209 | 0.122 | 0.020 | 21.15 | 22.50 | 0.285 | Yes |
| Back Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.276 | 0.157 | 0.010 | 21.15 | 22.50 | 0.377 | Yes |
| Left Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.098 | 0.066 | 0.080 | 21.15 | 22.50 | 0.133 | Yes |
| Right Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.227 | 0.152 | 0.060 | 21.15 | 22.50 | 0.310 | Yes |
| Bottom Side | 26775/822.5 | 15M QPSK 50%RB#18 | 0.129 | 0.076 | 0.050 | 21.15 | 22.50 | 0.176 | Yes |

Table 229: 10-g Extremity SAR test reduction evaluation of LTE Band XXVI

Note : According to the table above , 10-g Extremity SAR test is not required for this frequency band.

### 7.2.27 SAR measurement Result of LTE Band XXX (Main Antenna)

| Test Position of Head | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Left Hand Touched | 27710/2310 | 10M QPSK 1RB#25 | 0.268 | 0.157 | 0.050 | 21.78 | 22.70 | 0.331 | 21.5°C |
| Left Hand Tilted 15° | 27710/2310 | 10M QPSK 1RB#25 | 0.114 | 0.060 | 0.170 | 21.78 | 22.70 | 0.141 | 21.5°C |
| Right Hand Touched | 27710/2310 | 10M QPSK 1RB#25 | 0.145 | 0.088 | -0.100 | 21.78 | 22.70 | 0.179 | 21.5°C |
| Right Hand Tilted 15° | 27710/2310 | 10M QPSK 1RB#25 | 0.108 | 0.056 | 0.130 | 21.78 | 22.70 | 0.133 | 21.5°C |
| 50%RB | | | | | | | | | |
| Left Hand Touched | 27710/2310 | 10M QPSK 50%RB#0 | 0.194 | 0.106 | 0.060 | 20.77 | 21.70 | 0.240 | 21.5°C |
| Left Hand Tilted 15° | 27710/2310 | 10M QPSK 50%RB#0 | 0.085 | 0.045 | 0.180 | 20.77 | 21.70 | 0.106 | 21.5°C |
| Right Hand Touched | 27710/2310 | 10M QPSK 50%RB#0 | 0.106 | 0.060 | 0.120 | 20.77 | 21.70 | 0.131 | 21.5°C |
| Right Hand Tilted 15° | 27710/2310 | 10M QPSK 50%RB#0 | 0.080 | 0.041 | 0.110 | 20.77 | 21.70 | 0.099 | 21.5°C |

Table 230: Head SAR test results of LTE Band XXX

| Test Position of Body-Worn with 15mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 1RB#25 | 0.422 | 0.221 | 0.050 | 21.78 | 22.70 | 0.522 | 21.5°C |
| Back Side | 27710/2310 | 10M QPSK 1RB#25 | 0.388 | 0.207 | 0.160 | 21.78 | 22.70 | 0.480 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 50%RB#0 | 0.325 | 0.170 | -0.010 | 20.77 | 21.70 | 0.403 | 21.5°C |
| Back Side | 27710/2310 | 10M QPSK 50%RB#0 | 0.281 | 0.148 | 0.020 | 20.77 | 21.70 | 0.348 | 21.5°C |

Table 231: Body-Worn SAR test results of LTE Band XXX

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 1RB#0 | 0.707 | 0.346 | 0.150 | 19.72 | 20.00 | 0.754 | 21.5°C |
| Back Side | 27710/2310 | 10M QPSK 1RB#0 | 0.657 | 0.317 | 0.140 | 19.72 | 20.00 | 0.701 | 21.5°C |
| Left Side | 27710/2310 | 10M QPSK 1RB#0 | 0.105 | 0.056 | 0.140 | 19.72 | 20.00 | 0.112 | 21.5°C |
| Right Side | 27710/2310 | 10M QPSK 1RB#0 | 0.091 | 0.049 | -0.180 | 19.72 | 20.00 | 0.097 | 21.5°C |
| Bottom Side | 27710/2310 | 10M QPSK 1RB#0 | 1.320 | 0.622 | -0.160 | 19.72 | 20.00 | 1.408 | 21.5°C |
| Bottom Side-repeated | 27710/2310 | 10M QPSK 1RB#0 | 1.300 | 0.659 | -0.040 | 19.72 | 20.00 | 1.387 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.657 | 0.317 | 0.160 | 19.52 | 20.00 | 0.734 | 21.5°C |
| Back Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.644 | 0.305 | 0.160 | 19.52 | 20.00 | 0.719 | 21.5°C |
| Left Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.103 | 0.056 | -0.170 | 19.52 | 20.00 | 0.115 | 21.5°C |
| Right Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.090 | 0.049 | -0.120 | 19.52 | 20.00 | 0.100 | 21.5°C |
| Bottom Side | 27710/2310 | 10M QPSK 50%RB#13 | 1.290 | 0.634 | -0.110 | 19.52 | 20.00 | 1.441 | 21.5°C |
| 100%RB | | | | | | | | | |
| Bottom Side | 27710/2310 | 10M QPSK 100%RB#0 | 1.280 | 0.643 | -0.130 | 19.49 | 20.00 | 1.439 | 21.5°C |

Table 232: Hotspot SAR test results of LTE Band XXX

Per KDB648474D04, 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:

| Test Position of Hotspot with 10mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conduct Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{1-g}$ (W/kg) | 10-g Extremity SAR Exclusion |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 1RB#0 | 0.707 | 0.346 | 0.150 | 19.72 | 22.70 | 1.404 | No |
| Back Side | 27710/2310 | 10M QPSK 1RB#0 | 0.657 | 0.317 | 0.140 | 19.72 | 22.70 | 1.305 | No |
| Left Side | 27710/2310 | 10M QPSK 1RB#0 | 0.105 | 0.056 | 0.140 | 19.72 | 22.70 | 0.209 | Yes |
| Right Side | 27710/2310 | 10M QPSK 1RB#0 | 0.091 | 0.049 | -0.180 | 19.72 | 22.70 | 0.181 | Yes |
| Bottom Side | 27710/2310 | 10M QPSK 1RB#0 | 1.320 | 0.622 | -0.160 | 19.72 | 22.70 | 2.622 | No |
| Bottom Side-repeated | 27710/2310 | 10M QPSK 1RB#0 | 1.300 | 0.659 | -0.040 | 19.72 | 22.70 | 2.582 | No |
| 50%RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.657 | 0.317 | 0.160 | 19.50 | 21.70 | 1.090 | Yes |
| Back Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.644 | 0.305 | 0.160 | 19.50 | 21.70 | 1.069 | Yes |
| Left Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.103 | 0.056 | -0.170 | 19.50 | 21.70 | 0.171 | Yes |
| Right Side | 27710/2310 | 10M QPSK 50%RB#13 | 0.090 | 0.049 | -0.120 | 19.50 | 21.70 | 0.149 | Yes |
| Bottom Side | 27710/2310 | 10M QPSK 50%RB#13 | 1.290 | 0.634 | -0.110 | 19.50 | 21.70 | 2.141 | No |
| 100%RB | | | | | | | | | |
| Bottom Side | 27710/2310 | 10M QPSK 100%RB#0 | 1.280 | 0.643 | -0.130 | 19.49 | 21.70 | 2.129 | No |

Table 233: 10-g Extremity SAR test reduction evaluation of LTE Band XXX

Note : According to the table above , 10-g Extremity SAR test is required for this frequency band.

According to the table above , only **Front Side** and **Back Side** and **Bottom Side** 10-g Extremity SAR test are required for this frequency band:

| Test Position of 10-g Extremity with 0mm | Test channel / Freq.(MHz) | Test Mode | SAR Value (W/kg) | | Power Drift (dB) | Conducted Power (dBm) | Tune-up Power (dBm) | Scaled $SAR_{10-g}$ (W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1-g | 10-g | | | | | |
| 1RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 1RB#25 | 6.800 | 2.460 | -0.040 | 21.78 | 22.70 | 3.040 | 21.5°C |
| Front Side | 27710/2310 | 10M QPSK 1RB#25 | 7.520 | 2.640 | 0.180 | 21.78 | 22.70 | 3.263 | 21.1°C |
| Back Side | 27710/2310 | 10M QPSK 1RB#25 | 7.420 | 2.400 | 0.000 | 21.78 | 22.70 | 2.966 | 21.5°C |
| Bottom Side | 27710/2310 | 10M QPSK 1RB#25 | 3.040 | 1.170 | 0.020 | 21.78 | 22.70 | 1.446 | 21.5°C |
| 50%RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 50%RB#0 | 5.140 | 1.790 | 0.170 | 20.77 | 21.70 | 2.217 | 21.5°C |
| Back Side | 27710/2310 | 10M QPSK 50%RB#0 | 5.740 | 1.790 | 0.120 | 20.77 | 21.70 | 2.217 | 21.5°C |
| Bottom Side | 27710/2310 | 10M QPSK 50%RB#0 | 2.210 | 0.833 | -0.100 | 20.77 | 21.70 | 1.032 | 21.5°C |
| 100%RB | | | | | | | | | |
| Front Side | 27710/2310 | 10M QPSK 100%RB#0 | 4.230 | 1.670 | 0.130 | 20.63 | 21.70 | 2.137 | 21.5°C |
| Back Side | 27710/2310 | 10M QPSK 100%RB#0 | 4.740 | 1.790 | 0.160 | 20.63 | 21.70 | 2.290 | 21.5°C |

Table 234: 10-g Extremity SAR results of LTE Band XXX