

1.0 Description and Test Setup

As per FCC OET Lab KDB inquiry/guidance regarding the BlackBerry Dynamic Antenna Tuning implementation, single point screening SAR test was performed in each 9 tuning state, on each low band, test configuration/position to investigate the effect and cover the corners, midpoints of the edges and the mid-point of the tuning range, in addition to the Closed Loop condition scan.

Single point SAR screening was considered because the antenna matching elements do not influence the SAR distribution.

All 3 device models use 2 tuning capacitors with 3 tuning states each to provide 9 total tuning states for each adjustable closed loop tuner.

The primary reason for the implementing of the closed loop tunable antenna matching is that it reduces the variation from maximum radiated output power. Hence during SAR testing, the radiated power will vary less than it would for a fixed match and will always be the maximum radiated output power. Because the tunable matching consists of discrete variable components that have replaced fixed components in a typical antenna match and are not part of the antenna structure, they will not impact current distributions or antenna patterns. Correspondingly, the tunable matching impacts the power reaching the antenna without affecting the radiation pattern of the antenna.

For each exposure condition (touch, tilt, left, right for head and fixed separation for body-worn SAR), the highest measured SAR configuration (among the channels and wireless configurations tested; i.e. GSM/GPRS, WCDMA, LTE test mode setups) was identified and SAR probe was positioned at the highest SAR measurement point in the area scan and performed single point SAR measurement for all available tuning states; including the one already measured with closed loop tuning active.

The device was remained in each SAR test position (for head and body) while it is tuned to the 9 tuning states for single point SAR measurement.

Each tuning state was controlled by the Antenna Tuning/WiFi software tools using an Access Point and WiFi communication over the air.

When programming the tuner settings over the WiFi, there was a very short burst of traffic and then no activity. There was no WiFi traffic when the SAR test was running.

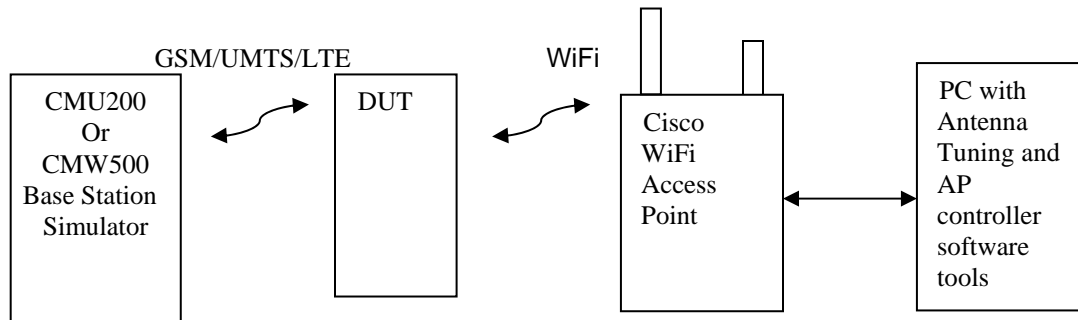


Figure 1.0 Single point screening test setup

2.0 Device Information

| | | | | | |
|-------------------|-----------------|----------------------|-----------------|--------------|------------------------|
| Model # | | RHK211LW (STV100-1) | | | |
| FCC ID # | | L6ARHK210LW | | | |
| DeviceType | Sample # | Device S/N | HW REV # | CPR # | Software Bundle |
| Radiated | 65 | 1161504665 | Rev 4-01 | 30231 | AAC273 |
| Radiated | 66 | 1161507560 | Rev 4-01 | 30231 | AAC273 |

| | | | | | |
|-------------------|-----------------|----------------------|-----------------|--------------|------------------------|
| Model # | | RHL211LW (STV100-3) | | | |
| FCC ID # | | L6ARHL210LW | | | |
| DeviceType | Sample # | Device S/N | HW REV # | CPR # | Software Bundle |
| Radiated | 40 | 1161507290 | Rev 4-01 | 30231 | AAC273 |
| Radiated | 41 | 1161507352 | Rev 4-01 | 30231 | AAC273 |

| | | | | | |
|-------------------|-----------------|----------------------|-----------------|--------------|------------------------|
| Model # | | RHM181LW (STV100-4) | | | |
| FCC ID # | | L6ARHM180LW | | | |
| DeviceType | Sample # | Device S/N | HW REV # | CPR # | Software Bundle |
| Radiated | 43 | 1161509634 | Rev 2-01 | 30233 | AAC273 |

Single Point SAR Screening for Antenna Tuning States

2.0 Single Point SAR Screening Test Data

BlackBerry Model: RHK211LW

| Measured SAR Values - Head - LTE Band 12 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23095 | 707.5 | Left Cheek | Closed | 0.189 | 0.00 | 1 | Closed Loop |
| | | | | 0.062 | -67.35 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.080 | -57.94 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.103 | -45.50 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.081 | -57.25 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.113 | -40.21 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.150 | -20.63 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.106 | -43.92 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.157 | -16.93 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.187 | -1.06 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23095 | 707.5 | Left Tilt | Closed | 0.128 | 0.00 | 1 | Closed Loop |
| | | | | 0.039 | -69.53 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.051 | -60.39 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.065 | -48.98 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.051 | -60.39 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.073 | -42.97 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.096 | -24.69 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.067 | -47.34 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.102 | -20.31 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.119 | -7.03 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23095 | 707.5 | Left Cheek | Open | 0.129 | 0.00 | 1 | Closed Loop |
| | | | | 0.040 | -68.76 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.052 | -59.53 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.066 | -49.15 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.052 | -59.77 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.076 | -40.85 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.100 | -22.56 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.073 | -43.49 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.111 | -13.95 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.124 | -3.88 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23095 | 707.5 | Left Tilt | Open | 0.064 | 0.00 | 1 | Closed Loop |
| | | | | 0.020 | -69.17 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.027 | -58.06 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.034 | -46.64 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.027 | -58.06 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.039 | -38.34 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.051 | -20.50 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.037 | -42.72 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.057 | -11.27 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.062 | -2.66 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 12 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|-------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23130 | 711.0 | Right Cheek | Closed | 0.222 | 0.00 | 1 | Closed Loop |
| | | | | 0.064 | -71.35 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.088 | -60.45 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.111 | -50.00 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.085 | -61.62 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.123 | -44.59 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.167 | -24.77 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.113 | -49.10 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.174 | -21.62 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.212 | -4.50 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23095 | 707.5 | Right Tilt | Closed | 0.125 | 0.00 | 1 | Closed Loop |
| | | | | 0.040 | -68.16 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.053 | -57.52 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.067 | -46.80 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.053 | -57.76 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.076 | -38.88 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.101 | -19.20 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.069 | -44.80 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.107 | -14.40 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.122 | -2.40 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23095 | 707.5 | Right Cheek | Open | 0.127 | 0.00 | 1 | Closed Loop |
| | | | | 0.039 | -69.69 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.052 | -59.21 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.065 | -48.66 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.052 | -59.45 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.074 | -41.50 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.097 | -24.02 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.071 | -44.02 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.109 | -14.17 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.117 | -7.87 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23095 | 707.5 | Right Tilt | Open | 0.074 | 0.00 | 1 | Closed Loop |
| | | | | 0.021 | -71.76 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.028 | -61.89 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.037 | -50.54 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.029 | -61.08 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.043 | -42.57 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.056 | -24.46 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.041 | -45.14 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.062 | -15.68 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.068 | -7.57 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 12 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23130 | 711.0 | 15mm Back | Closed | 0.297 | 0.00 | 1 | Closed Loop |
| | | | | 0.111 | -62.63 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.143 | -51.85 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.172 | -42.09 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.139 | -53.20 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.190 | -36.03 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.239 | -19.53 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.180 | -39.39 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.250 | -15.82 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.286 | -3.70 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23095 | 707.5 | 15mm Front | Closed | 0.243 | 0.00 | 1 | Closed Loop |
| | | | | 0.089 | -63.46 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.121 | -50.21 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.155 | -36.21 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.118 | -51.44 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.167 | -31.28 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.204 | -16.05 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.159 | -34.57 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.222 | -8.64 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.241 | -0.82 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHK211LW (STV100-1) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/25/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23790 | 710.0 | Left Cheek | Closed | 0.168 | 0.00 | 1 | Closed Loop |
| | | | | 0.045 | -72.98 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.063 | -62.74 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.081 | -51.85 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.059 | -64.70 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.086 | -48.87 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.114 | -32.14 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.076 | -54.94 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.117 | -30.36 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.153 | -8.93 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Tilt | Closed | 0.089 | 0.00 | 1 | Closed Loop |
| | | | | 0.028 | -68.25 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.038 | -57.40 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.048 | -45.65 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.037 | -58.64 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.052 | -41.13 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.069 | -21.92 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.050 | -43.73 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.071 | -19.77 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.088 | -0.90 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Cheek | Open | 0.109 | 0.00 | 1 | Closed Loop |
| | | | | 0.031 | -71.47 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.043 | -60.92 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.056 | -49.08 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.041 | -62.11 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.061 | -44.50 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.083 | -24.31 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.055 | -49.45 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.087 | -20.28 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.107 | -1.83 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Tilt | Open | 0.051 | 0.00 | 1 | Closed Loop |
| | | | | 0.015 | -70.30 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.020 | -59.60 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.026 | -47.92 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.021 | -59.01 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.030 | -41.58 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.038 | -24.36 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.027 | -45.74 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.042 | -17.03 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.050 | -1.19 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23780 | 709.0 | Right Cheek | Closed | 0.226 | 0.00 | 1 | Closed Loop |
| | | | | 0.070 | -68.98 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.095 | -57.88 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.122 | -46.02 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.093 | -59.03 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.134 | -40.71 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.181 | -19.91 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.124 | -45.13 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.189 | -16.37 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.224 | -0.88 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Tilt | Closed | 0.122 | 0.00 | 1 | Closed Loop |
| | | | | 0.039 | -68.28 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.053 | -56.39 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.067 | -45.41 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.051 | -57.87 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.072 | -41.31 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.093 | -23.61 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.067 | -44.84 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.098 | -19.51 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.122 | 0.00 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Cheek | Open | 0.121 | 0.00 | 1 | Closed Loop |
| | | | | 0.038 | -68.60 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.051 | -57.69 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.065 | -46.20 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.052 | -56.86 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.073 | -40.08 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.095 | -21.57 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.070 | -41.98 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.103 | -14.88 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.121 | 0.00 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Tilt | Open | 0.071 | 0.00 | 1 | Closed Loop |
| | | | | 0.022 | -68.45 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.030 | -57.75 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.039 | -45.77 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.030 | -57.46 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.043 | -39.72 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.055 | -22.68 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.041 | -41.83 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.060 | -15.07 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.071 | -0.56 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23780 | 709.0 | 15mm Back | Closed | 0.275 | 0.00 | 1 | Closed Loop |
| | | | | 0.104 | -62.18 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.135 | -50.91 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.174 | -36.73 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.135 | -50.91 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.185 | -32.73 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.236 | -14.18 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.179 | -34.91 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.251 | -8.73 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.275 | 0.00 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | 15mm Front | Closed | 0.233 | 0.00 | 1 | Closed Loop |
| | | | | 0.069 | -70.34 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.095 | -59.31 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.120 | -48.50 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.087 | -62.49 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.125 | -46.35 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.160 | -31.33 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.116 | -50.21 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.166 | -28.76 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.200 | -14.16 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHK211LW (STV100-1) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/26/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 5 850 MHz (BW 10 MHz) | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 20525 | 836.5 | Left Cheek | Closed | 0.295 | 0.00 | 1 | Closed Loop |
| | | | | 0.246 | -16.61 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.231 | -21.69 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.211 | -28.47 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.258 | -12.54 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.221 | -25.08 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.184 | -37.63 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.201 | -31.86 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.162 | -45.08 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.125 | -57.63 | 10 | Cap 1= Min C, Cap 2= Min C |
| 20525 | 836.5 | Left Tilt | Closed | 0.199 | 0.00 | 1 | Closed Loop |
| | | | | 0.180 | -9.55 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.170 | -14.57 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.154 | -22.61 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.179 | -10.05 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.184 | -7.54 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.184 | -7.54 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.179 | -10.05 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.181 | -9.05 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.188 | -5.53 | 10 | Cap 1= Min C, Cap 2= Min C |
| 20525 | 836.5 | Left Cheek | Open | 0.210 | 0.00 | 1 | Closed Loop |
| | | | | 0.208 | -0.95 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.204 | -2.86 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.188 | -10.48 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.205 | -2.38 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.182 | -13.33 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.154 | -26.67 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.155 | -26.19 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.129 | -38.57 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.129 | -38.57 | 10 | Cap 1= Min C, Cap 2= Min C |
| 20525 | 836.5 | Left Tilt | Open | 0.127 | 0.00 | 1 | Closed Loop |
| | | | | 0.127 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.120 | -5.51 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.111 | -12.60 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.120 | -5.51 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.103 | -18.90 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.085 | -32.76 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.086 | -32.44 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.071 | -43.86 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.057 | -55.20 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 5 850 MHz (BW 10 MHz) | | | | | | | |
|---|-------------|-------------|-----------------|----------------------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 20525 | 836.5 | Right Cheek | Closed | 0.315 | 0.00 | 1 | Closed Loop |
| | | | | 0.275 | -12.70 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.265 | -15.87 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.241 | -23.49 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.291 | -7.62 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.251 | -20.32 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.211 | -33.02 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.235 | -25.40 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.184 | -41.59 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.142 | -54.92 | 10 | Cap 1= Min C, Cap 2= Min C |
| 20525 | 836.5 | Right Tilt | Closed | 0.219 | 0.00 | 1 | Closed Loop |
| | | | | 0.202 | -7.76 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.187 | -14.61 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.168 | -23.29 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.198 | -9.59 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.170 | -22.37 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.141 | -35.62 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.153 | -30.14 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.120 | -45.21 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.095 | -56.62 | 10 | Cap 1= Min C, Cap 2= Min C |
| 20525 | 836.5 | Right Cheek | Open | 0.236 | 0.00 | 1 | Closed Loop |
| | | | | 0.230 | -2.54 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.222 | -5.93 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.211 | -10.59 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.225 | -4.66 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.197 | -16.53 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.170 | -27.97 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.171 | -27.54 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.140 | -40.68 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.114 | -51.69 | 10 | Cap 1= Min C, Cap 2= Min C |
| 20525 | 836.5 | Right Tilt | Open | 0.132 | 0.00 | 1 | Closed Loop |
| | | | | 0.126 | -4.55 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.117 | -11.36 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.108 | -18.18 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.115 | -12.88 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.102 | -22.73 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.086 | -34.62 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.086 | -34.70 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.070 | -46.82 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | 0.056 | -57.50 | 10 | Cap 1= Min C, Cap 2= Min C | | | |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 5 850 MHz (BW 10 MHz) | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 20525 | 836.5 | 15mm Back | Closed | 0.275 | 0.00 | 1 | Closed Loop |
| | | | | 0.267 | -2.91 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.253 | -8.00 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.231 | -16.00 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.271 | -1.45 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.272 | -1.09 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.200 | -27.27 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.220 | -20.00 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.176 | -36.00 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.139 | -49.45 | 10 | Cap 1= Min C, Cap 2= Min C |
| 20450 | 829.0 | 15mm Front | Closed | 0.351 | 0.00 | 1 | Closed Loop |
| | | | | 0.351 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.339 | -3.42 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.339 | -3.42 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.340 | -3.13 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.339 | -3.42 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.272 | -22.51 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.279 | -20.51 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.232 | -33.90 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.187 | -46.72 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHK211LW (STV100-1) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/26/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 190 | 836.6 | Left Cheek | Closed | 0.298 | 0.00 | 1 | Closed Loop |
| | | | | 0.249 | -16.44 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.272 | -8.72 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.267 | -10.40 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.286 | -4.03 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.230 | -22.82 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.196 | -34.23 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.199 | -33.22 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.135 | -45.78 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.093 | -68.83 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Tilt | Closed | 0.199 | 0.00 | 1 | Closed Loop |
| | | | | 0.197 | -1.01 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.186 | -6.53 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.084 | -57.64 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.100 | -49.95 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.083 | -58.44 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.060 | -69.70 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.061 | -69.45 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.042 | -78.89 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.029 | -85.23 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Cheek | Open | 0.269 | 0.00 | 1 | Closed Loop |
| | | | | 0.257 | -4.46 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.266 | -1.12 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.255 | -5.20 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.240 | -10.78 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.199 | -26.02 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.160 | -40.52 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.147 | -45.35 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.109 | -59.48 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.079 | -70.52 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Tilt | Open | 0.146 | 0.00 | 1 | Closed Loop |
| | | | | 0.144 | -1.37 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.144 | -1.37 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.133 | -8.90 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.124 | -15.07 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.061 | -58.01 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.046 | -68.49 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.049 | -66.23 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.036 | -74.93 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.026 | -82.05 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 190 | 836.8 | Right Cheek | Closed | 0.479 | 0.00 | 1 | Closed Loop |
| | | | | 0.423 | -11.69 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.455 | -5.01 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.440 | -8.14 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.473 | -1.25 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.389 | -18.79 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.291 | -39.25 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.291 | -39.25 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.201 | -58.04 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.135 | -71.82 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Tilt | Closed | 0.280 | 0.00 | 1 | Closed Loop |
| | | | | 0.229 | -18.21 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.230 | -17.86 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.215 | -23.21 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.223 | -20.36 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.184 | -34.29 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.139 | -50.36 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.137 | -51.07 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.100 | -64.39 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.069 | -75.32 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Cheek | Open | 0.298 | 0.00 | 1 | Closed Loop |
| | | | | 0.290 | -2.68 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.294 | -1.34 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.282 | -5.37 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.265 | -11.07 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.222 | -25.50 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.174 | -41.61 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.162 | -45.64 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.121 | -58.28 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.093 | -68.86 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Tilt | Open | 0.164 | 0.00 | 1 | Closed Loop |
| | | | | 0.092 | -43.96 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.092 | -44.15 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.085 | -48.23 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.079 | -51.71 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.062 | -62.07 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.047 | -71.28 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.052 | -68.60 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.037 | -77.38 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.027 | -83.66 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 128 | 824.2 | 15mm Back | Closed | 0.413 | 0.00 | 1 | Closed Loop |
| | | | | 0.410 | -0.73 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.411 | -0.48 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.375 | -9.20 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.324 | -21.55 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.278 | -32.69 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.226 | -45.28 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.206 | -50.12 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.163 | -60.53 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.126 | -69.49 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | 15mm Front | Closed | 0.506 | 0.00 | 1 | Closed Loop |
| | | | | 0.445 | -12.06 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.470 | -7.11 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.451 | -10.87 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.481 | -4.94 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.412 | -18.58 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.314 | -37.94 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.315 | -37.75 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.228 | -54.94 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.161 | -68.18 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHK211LW (STV100-1) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/18/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Hotspot (10mm Spacing) - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 190 | 836.8 | 10mm Back | Open | 0.788 | 0.00 | 1 | Closed Loop |
| | | | | 0.787 | -0.13 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.774 | -1.78 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.714 | -9.39 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.631 | -19.92 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.542 | -31.22 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.447 | -43.27 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.400 | -49.24 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.321 | -59.26 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.257 | -67.39 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | 10mm Front | Open | 0.525 | 0.00 | 1 | Closed Loop |
| | | | | 0.478 | -8.95 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.485 | -7.62 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.451 | -14.10 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.480 | -8.57 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.409 | -22.10 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.317 | -39.62 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.306 | -41.71 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.226 | -56.95 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.163 | -68.95 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHK211LW (STV100-1) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 09/16/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head -WCDMA/UMTS band V 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 4182 | 836.4 | Left Cheek | Closed | 0.287 | 0.00 | 1 | Closed Loop |
| | | | | 0.228 | -20.56 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.223 | -22.30 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.205 | -28.57 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.272 | -5.23 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.232 | -19.16 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.186 | -35.19 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.219 | -23.69 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.151 | -47.39 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.107 | -62.72 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Left Tilt | Closed | 0.172 | 0.00 | 1 | Closed Loop |
| | | | | 0.172 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.166 | -3.49 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.160 | -6.98 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.115 | -33.14 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.113 | -34.30 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.107 | -37.79 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.067 | -60.87 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.065 | -62.38 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.061 | -64.48 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Left Cheek | Open | 0.196 | 0.00 | 1 | Closed Loop |
| | | | | 0.196 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.194 | -1.02 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.195 | -0.51 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.126 | -35.71 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.127 | -35.20 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.127 | -35.20 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.075 | -61.99 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.077 | -60.87 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.075 | -61.73 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Left Tilt | Open | 0.117 | 0.00 | 1 | Closed Loop |
| | | | | 0.116 | -0.85 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.109 | -6.84 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.098 | -16.32 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.114 | -2.56 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.098 | -16.58 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.081 | -30.94 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.085 | -27.26 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.066 | -43.93 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.051 | -56.58 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head -WCDMA/UMTS band V 850 MHz | | | | | | | |
|---|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 4233 | 846.6 | Right Cheek | Closed | 0.356 | 0.00 | 1 | Closed Loop |
| | | | | 0.249 | -30.06 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.247 | -30.62 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.231 | -35.11 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.334 | -6.18 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.293 | -17.70 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.236 | -33.71 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.306 | -14.04 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.221 | -37.92 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.153 | -57.02 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Right Tilt | Closed | 0.263 | 0.00 | 1 | Closed Loop |
| | | | | 0.220 | -16.35 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.212 | -19.39 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.195 | -25.86 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.245 | -6.84 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.212 | -19.39 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.171 | -34.98 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.191 | -27.38 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.136 | -48.29 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.098 | -62.74 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Right Cheek | Open | 0.231 | 0.00 | 1 | Closed Loop |
| | | | | 0.227 | -1.73 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.227 | -1.73 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.228 | -1.30 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.150 | -35.06 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.153 | -33.77 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.154 | -33.33 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.088 | -61.90 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.090 | -61.08 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.090 | -60.91 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Right Tilt | Open | 0.169 | 0.00 | 1 | Closed Loop |
| | | | | 0.169 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.104 | -38.46 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.095 | -43.91 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.110 | -34.91 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.095 | -43.79 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.078 | -53.79 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.081 | -52.19 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.060 | -64.32 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.045 | -73.14 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) -WCDMA/UMTS band V 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 4132 | 826.4 | 15mm Back | Closed | 0.390 | 0.00 | 1 | Closed Loop |
| | | | | 0.363 | -6.92 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.350 | -10.26 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.323 | -17.18 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.362 | -7.18 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.310 | -20.51 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.263 | -32.56 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.276 | -29.23 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.227 | -41.79 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.185 | -52.56 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4132 | 826.4 | 15mm Front | Closed | 0.458 | 0.00 | 1 | Closed Loop |
| | | | | 0.407 | -11.14 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.393 | -14.19 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.363 | -20.74 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.403 | -12.01 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.403 | -12.01 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.309 | -32.53 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.321 | -29.91 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.268 | -41.48 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.216 | -52.84 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHK211LW (STV100-1) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/13-14/2015 |

Single Point SAR Screening for Antenna Tuning States

BlackBerry Model: RHL211LW

| Measured SAR Values - Head - LTE Band 12 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23130 | 711.0 | Left Cheek | Closed | 0.187 | 0.00 | 1 | Closed Loop |
| | | | | 0.042 | -77.81 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.060 | -67.81 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.089 | -52.67 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.040 | -78.61 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.068 | -63.58 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.124 | -33.69 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.038 | -79.57 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.077 | -58.77 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.171 | -8.56 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23130 | 711.0 | Left Tilt | Closed | 0.127 | 0.00 | 1 | Closed Loop |
| | | | | 0.027 | -78.98 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.039 | -69.21 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.058 | -54.72 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.026 | -79.76 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.045 | -64.49 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.080 | -37.32 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.024 | -81.02 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.050 | -60.63 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.111 | -12.60 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23130 | 711.0 | Left Cheek | Open | 0.128 | 0.00 | 1 | Closed Loop |
| | | | | 0.026 | -79.92 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.038 | -70.08 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.057 | -55.16 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.026 | -80.08 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.044 | -65.47 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.080 | -37.58 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.025 | -80.63 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.052 | -59.53 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.111 | -13.28 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23130 | 711.0 | Left Tilt | Open | 0.062 | 0.00 | 1 | Closed Loop |
| | | | | 0.012 | -79.87 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.018 | -70.13 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.027 | -56.66 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.012 | -80.68 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.021 | -65.26 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.039 | -37.18 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.012 | -81.01 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.025 | -59.90 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.056 | -8.77 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 12 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|-------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23095 | 707.5 | Right Cheek | Closed | 0.233 | 0.00 | 1 | Closed Loop |
| | | | | 0.050 | -78.50 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.075 | -67.94 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.113 | -51.50 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.049 | -78.84 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.086 | -63.22 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.159 | -31.76 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.047 | -79.70 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.098 | -58.07 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.210 | -9.87 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23130 | 711.0 | Right Tilt | Closed | 0.148 | 0.00 | 1 | Closed Loop |
| | | | | 0.032 | -78.72 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.046 | -68.92 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.068 | -54.12 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.030 | -79.46 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.052 | -64.93 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.094 | -36.28 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.029 | -80.54 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.060 | -59.73 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.126 | -14.86 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23130 | 711.0 | Right Cheek | Open | 0.127 | 0.00 | 1 | Closed Loop |
| | | | | 0.026 | -79.84 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.039 | -69.61 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.057 | -55.28 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.026 | -79.69 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.046 | -64.09 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.081 | -36.22 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.025 | -80.71 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.053 | -58.43 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.115 | -9.45 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23130 | 711.0 | Right Tilt | Open | 0.068 | 0.00 | 1 | Closed Loop |
| | | | | 0.015 | -77.92 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.022 | -67.40 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.034 | -51.02 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.015 | -78.65 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.027 | -61.26 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.049 | -29.09 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.014 | -78.95 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.031 | -54.53 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.068 | -0.29 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 12 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23130 | 711.0 | 15mm Back | Closed | 0.315 | 0.00 | 1 | Closed Loop |
| | | | | 0.071 | -77.56 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.103 | -67.30 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.147 | -53.33 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.068 | -78.35 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.113 | -64.13 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.192 | -39.05 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.066 | -79.17 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.123 | -60.95 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.252 | -20.00 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23130 | 711.0 | 15mm Front | Closed | 0.265 | 0.00 | 1 | Closed Loop |
| | | | | 0.058 | -78.11 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.084 | -68.38 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.123 | -53.58 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.056 | -78.98 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.092 | -65.28 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.160 | -39.62 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.054 | -79.55 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.102 | -61.51 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.208 | -21.51 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHL211LW (STV100-3) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/27/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23790 | 710.0 | Left Cheek | Closed | 0.204 | 0.00 | 1 | Closed Loop |
| | | | | 0.045 | -78.04 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.066 | -67.45 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.095 | -53.33 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.044 | -78.63 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.074 | -63.97 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.129 | -36.76 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.043 | -79.07 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.084 | -59.07 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.174 | -14.71 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Tilt | Closed | 0.135 | 0.00 | 1 | Closed Loop |
| | | | | 0.031 | -77.41 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.043 | -67.93 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.065 | -51.93 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.030 | -77.78 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.052 | -61.70 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.088 | -35.11 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.029 | -78.74 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.057 | -57.70 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.122 | -9.63 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Cheek | Open | 0.134 | 0.00 | 1 | Closed Loop |
| | | | | 0.029 | -78.51 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.043 | -67.69 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.063 | -53.36 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.029 | -78.73 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.050 | -62.84 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.087 | -34.78 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.029 | -78.43 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.059 | -55.82 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.124 | -7.46 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Tilt | Open | 0.071 | 0.00 | 1 | Closed Loop |
| | | | | 0.020 | -72.06 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.022 | -69.08 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.032 | -54.33 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.015 | -78.72 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.026 | -62.55 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.046 | -34.75 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.015 | -79.01 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.031 | -56.45 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.066 | -6.67 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23780 | 709.0 | Right Cheek | Closed | 0.220 | 0.00 | 1 | Closed Loop |
| | | | | 0.048 | -78.32 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.070 | -68.32 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.104 | -52.73 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.045 | -79.64 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.080 | -63.45 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.139 | -36.82 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.044 | -80.09 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.090 | -59.32 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.189 | -14.09 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Tilt | Closed | 0.146 | 0.00 | 1 | Closed Loop |
| | | | | 0.032 | -77.88 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.047 | -67.60 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.069 | -52.53 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.032 | -78.22 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.052 | -64.18 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.093 | -36.44 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.031 | -78.97 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.061 | -58.29 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.126 | -13.70 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Cheek | Open | 0.134 | 0.00 | 1 | Closed Loop |
| | | | | 0.028 | -79.33 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.044 | -67.54 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.061 | -54.40 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.028 | -79.33 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.049 | -63.13 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.088 | -34.70 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.028 | -79.18 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.056 | -57.99 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.124 | -7.46 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Tilt | Open | 0.078 | 0.00 | 1 | Closed Loop |
| | | | | 0.015 | -80.13 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.022 | -71.23 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.034 | -56.77 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.015 | -80.39 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.026 | -66.71 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.047 | -39.23 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.015 | -80.65 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.032 | -59.10 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.067 | -13.94 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23780 | 709.0 | 15mm Back | Closed | 0.294 | 0.00 | 1 | Closed Loop |
| | | | | 0.071 | -75.82 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.105 | -64.29 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.147 | -50.00 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.070 | -76.16 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.116 | -60.54 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.194 | -34.01 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.069 | -76.63 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.129 | -56.12 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.252 | -14.29 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | 15mm Front | Closed | 0.245 | 0.00 | 1 | Closed Loop |
| | | | | 0.056 | -76.98 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.082 | -66.73 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.122 | -50.20 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.055 | -77.47 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.091 | -62.78 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.156 | -36.33 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.053 | -78.33 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.102 | -58.37 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.204 | -16.73 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHL211LW (STV100-3) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/25-27/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 28 700 MHz (BW 20 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 27560 | 738.0 | Left Cheek | Closed | 0.181 | 0.00 | 1 | Closed Loop |
| | | | | 0.050 | -72.54 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.069 | -61.93 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.097 | -46.24 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.043 | -76.24 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.068 | -62.38 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.109 | -39.78 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.037 | -79.67 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.065 | -64.25 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.122 | -32.60 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Left Tilt | Closed | 0.103 | 0.00 | 1 | Closed Loop |
| | | | | 0.032 | -69.22 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.045 | -56.41 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.062 | -39.71 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.027 | -73.40 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.043 | -58.35 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.073 | -29.42 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.024 | -77.09 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.042 | -59.42 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.080 | -22.62 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Left Cheek | Open | 0.124 | 0.00 | 1 | Closed Loop |
| | | | | 0.036 | -71.29 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.050 | -59.68 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.071 | -42.58 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.033 | -73.71 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.051 | -58.55 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.087 | -29.68 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.028 | -77.26 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.049 | -60.56 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.100 | -19.76 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Left Tilt | Open | 0.066 | 0.00 | 1 | Closed Loop |
| | | | | 0.020 | -69.23 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.029 | -56.11 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.040 | -39.06 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.018 | -73.00 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.029 | -56.56 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.049 | -26.09 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.016 | -76.47 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.028 | -58.22 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.060 | -9.95 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 28 700 MHz (BW 20 MHz) | | | | | | | |
|--|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 27310 | 713.0 | Right Cheek | Closed | 0.250 | 0.00 | 1 | Closed Loop |
| | | | | 0.049 | -80.24 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.072 | -71.08 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.104 | -58.40 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.046 | -81.44 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.080 | -67.92 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.138 | -44.80 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.044 | -82.44 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.085 | -65.84 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.185 | -26.00 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Right Tilt | Closed | 0.153 | 0.00 | 1 | Closed Loop |
| | | | | 0.048 | -68.82 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.067 | -56.27 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.093 | -39.54 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.041 | -73.14 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.065 | -57.78 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.104 | -32.03 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.035 | -77.39 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.061 | -60.00 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.117 | -23.53 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Right Cheek | Open | 0.148 | 0.00 | 1 | Closed Loop |
| | | | | 0.031 | -79.39 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.043 | -71.01 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.065 | -56.35 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.028 | -81.28 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.045 | -69.39 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.082 | -44.80 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.025 | -83.04 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.045 | -69.73 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.103 | -30.41 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Right Tilt | Open | 0.078 | 0.00 | 1 | Closed Loop |
| | | | | 0.017 | -78.70 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.025 | -68.37 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.037 | -53.06 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.016 | -80.10 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.026 | -66.45 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.047 | -40.18 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.014 | -82.27 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.027 | -66.20 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.059 | -24.23 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 28 700 MHz (BW 20 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 27435 | 725.5 | 15mm Back | Closed | 0.302 | 0.00 | 1 | Closed Loop |
| | | | | 0.053 | -82.62 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.082 | -72.88 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.126 | -58.28 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.049 | -83.94 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.086 | -71.69 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.156 | -48.34 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.044 | -85.36 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.089 | -70.53 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.196 | -35.10 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | 15mm Front | Closed | 0.266 | 0.00 | 1 | Closed Loop |
| | | | | 0.075 | -71.84 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.103 | -61.28 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.140 | -47.37 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.064 | -75.98 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.095 | -64.17 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.152 | -42.86 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.054 | -79.70 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.089 | -66.65 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.162 | -39.10 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHL211LW (STV100-3) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/29/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 190 | 836.6 | Left Cheek | Closed | 0.273 | 0.00 | 1 | Closed Loop |
| | | | | 0.271 | -0.73 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.269 | -1.47 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.261 | -4.40 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.166 | -39.19 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.161 | -41.03 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.148 | -45.79 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.084 | -69.41 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.075 | -72.53 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.072 | -73.77 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Tilt | Closed | 0.207 | 0.00 | 1 | Closed Loop |
| | | | | 0.202 | -2.42 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.203 | -1.93 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.198 | -4.35 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.091 | -56.28 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.088 | -57.49 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.085 | -58.94 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.045 | -78.07 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.044 | -78.79 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.000 | -99.97 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Cheek | Open | 0.213 | 0.00 | 1 | Closed Loop |
| | | | | 0.212 | -0.47 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.206 | -3.29 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.209 | -1.88 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.098 | -54.23 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.100 | -53.19 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.104 | -51.17 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.050 | -76.71 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.050 | -76.34 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.059 | -72.16 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Tilt | Open | 0.122 | 0.00 | 1 | Closed Loop |
| | | | | 0.115 | -5.74 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.120 | -1.64 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.122 | 0.00 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.057 | -53.61 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.058 | -52.62 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.067 | -45.00 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.033 | -72.79 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.034 | -72.38 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.018 | -85.41 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 251 | 848.8 | Right Cheek | Closed | 0.410 | 0.00 | 1 | Closed Loop |
| | | | | 0.407 | -0.73 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.393 | -4.15 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.368 | -10.24 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.261 | -36.34 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.235 | -42.68 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.208 | -49.27 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.130 | -68.29 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.132 | -67.80 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.133 | -67.56 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Tilt | Closed | 0.197 | 0.00 | 1 | Closed Loop |
| | | | | 0.195 | -1.02 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.196 | -0.51 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.195 | -1.02 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.098 | -50.25 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.098 | -50.10 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.097 | -50.81 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.051 | -74.01 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.051 | -74.31 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.048 | -75.48 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Cheek | Open | 0.230 | 0.00 | 1 | Closed Loop |
| | | | | 0.209 | -9.13 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.220 | -4.35 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.229 | -0.43 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.113 | -50.87 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.116 | -49.57 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.121 | -47.39 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.120 | -47.83 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.063 | -72.43 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.065 | -71.91 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Tilt | Open | 0.132 | 0.00 | 1 | Closed Loop |
| | | | | 0.122 | -7.58 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.129 | -2.27 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.129 | -2.27 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.062 | -53.03 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.063 | -51.97 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.066 | -50.38 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.033 | -75.23 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.034 | -72.54 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.034 | -74.55 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 251 | 848.8 | 15mm Back | Closed | 0.289 | 0.00 | 1 | Closed Loop |
| | | | | 0.283 | -2.08 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.286 | -1.04 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.284 | -1.73 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.155 | -46.37 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.154 | -46.71 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.147 | -49.13 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.093 | -67.68 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.090 | -68.93 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.085 | -70.52 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | 15mm Front | Closed | 0.384 | 0.00 | 1 | Closed Loop |
| | | | | 0.383 | -0.26 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.376 | -2.08 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.356 | -7.29 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.248 | -35.42 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.229 | -40.36 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.201 | -47.66 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.121 | -68.49 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.118 | -69.27 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.112 | -70.83 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHL211LW (STV100-3) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 8/19-20/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Hotspot (10mm Spacing) - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 251 | 848.8 | 10mm Back | Open | 0.692 | 0.00 | 1 | Closed Loop |
| | | | | 0.612 | -11.56 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.602 | -13.01 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.566 | -18.21 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.408 | -41.04 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.397 | -42.63 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.362 | -47.69 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.207 | -70.09 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.188 | -72.83 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.166 | -76.01 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | 10mm Front | Closed | 0.404 | 0.00 | 1 | Closed Loop |
| | | | | 0.403 | -0.25 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.403 | -0.25 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.400 | -0.99 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.233 | -42.33 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.229 | -43.32 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.218 | -46.04 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.123 | -69.55 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.118 | -70.79 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.111 | -72.52 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHL211LW (STV100-3) |
| Hardware Rev. # | Rev 4-01 |
| Software Bundle # | AAC273 |
| Date | 9/16/2015 |

Single Point SAR Screening for Antenna Tuning States

BlackBerry Model: RHM181LW

| Measured SAR Values - Head - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23790 | 710.0 | Left Cheek | Closed | 0.080 | 0.00 | 1 | Closed Loop |
| | | | | 0.039 | -50.69 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.052 | -34.72 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.076 | -4.28 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.032 | -59.50 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.045 | -43.02 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.074 | -7.30 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.026 | -66.79 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.040 | -50.06 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.070 | -11.45 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Tilt | Closed | 0.048 | 0.00 | 1 | Closed Loop |
| | | | | 0.024 | -51.03 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.032 | -34.09 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.046 | -4.34 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.020 | -59.50 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.028 | -42.36 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.046 | -4.55 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.016 | -66.32 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.024 | -49.59 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.044 | -9.71 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Cheek | Open | 0.051 | 0.00 | 1 | Closed Loop |
| | | | | 0.024 | -53.35 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.033 | -35.83 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.049 | -4.33 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.020 | -60.43 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.029 | -42.91 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.048 | -5.12 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.017 | -66.73 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.026 | -49.41 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.049 | -3.15 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Left Tilt | Open | 0.022 | 0.00 | 1 | Closed Loop |
| | | | | 0.010 | -55.71 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.014 | -38.39 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.021 | -7.14 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.008 | -62.59 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.012 | -44.64 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.021 | -6.70 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.007 | -69.15 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.011 | -50.45 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.021 | -5.36 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23780 | 709.0 | Right Cheek | Closed | 0.093 | 0.00 | 1 | Closed Loop |
| | | | | 0.044 | -52.21 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.062 | -33.48 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.089 | -4.52 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.038 | -59.53 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.053 | -42.52 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.086 | -7.10 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.031 | -66.52 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.046 | -50.27 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.082 | -11.84 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Tilt | Closed | 0.058 | 0.00 | 1 | Closed Loop |
| | | | | 0.028 | -52.24 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.037 | -35.52 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.056 | -3.10 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.023 | -60.00 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.033 | -42.41 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.054 | -6.38 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.020 | -66.21 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.029 | -49.66 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.054 | -7.59 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Cheek | Open | 0.059 | 0.00 | 1 | Closed Loop |
| | | | | 0.028 | -53.63 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.038 | -35.92 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.057 | -4.55 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.023 | -60.88 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.034 | -42.50 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.059 | -1.35 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.057 | -4.55 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.031 | -47.39 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.058 | -2.36 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | Right Tilt | Open | 0.032 | 0.00 | 1 | Closed Loop |
| | | | | 0.014 | -55.28 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.020 | -38.82 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.030 | -6.83 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.012 | -62.42 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.018 | -44.41 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.031 | -4.35 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.010 | -68.32 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.016 | -50.00 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.031 | -4.04 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 17 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 23790 | 710.0 | 15mm Back | Closed | 0.132 | 0.00 | 1 | Closed Loop |
| | | | | 0.067 | -49.02 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.090 | -32.12 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.125 | -5.30 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.054 | -59.02 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.076 | -42.73 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.119 | -9.85 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.044 | -66.67 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.065 | -51.14 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.111 | -15.91 | 10 | Cap 1= Min C, Cap 2= Min C |
| 23790 | 710.0 | 15mm Front | Closed | 0.110 | 0.00 | 1 | Closed Loop |
| | | | | 0.057 | -48.64 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.074 | -32.36 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.107 | -2.73 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.045 | -58.73 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.064 | -41.91 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.101 | -8.18 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.038 | -65.91 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.056 | -49.27 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.095 | -13.45 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHM181LW (STV100-4) |
| Hardware Rev. # | Rev 2-01 |
| Software Bundle # | AAC273 |
| Date | 8/27/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 28 700 MHz (BW 10 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 27560 | 738.0 | Left Cheek | Closed | 0.108 | 0.00 | 1 | Closed Loop |
| | | | | 0.040 | -63.33 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.050 | -53.43 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.068 | -36.76 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.030 | -72.31 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.040 | -63.24 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.056 | -48.43 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.023 | -78.89 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.031 | -71.20 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.048 | -56.02 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Left Tilt | Closed | 0.064 | 0.00 | 1 | Closed Loop |
| | | | | 0.025 | -60.94 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.033 | -48.66 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.045 | -29.76 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.020 | -69.13 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.025 | -60.47 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.037 | -42.05 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.015 | -76.85 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.020 | -67.87 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.032 | -50.24 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Left Cheek | Open | 0.070 | 0.00 | 1 | Closed Loop |
| | | | | 0.016 | -77.54 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.021 | -70.10 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.028 | -59.37 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.012 | -82.37 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.016 | -76.68 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.025 | -64.52 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.009 | -86.67 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.014 | -80.69 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.021 | -69.38 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Left Tilt | Open | 0.037 | 0.00 | 1 | Closed Loop |
| | | | | 0.016 | -55.89 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.021 | -43.56 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.028 | -22.19 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.012 | -66.58 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.017 | -53.15 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.025 | -32.33 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.009 | -74.36 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.014 | -62.74 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.021 | -41.64 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - LTE Band 28 700 MHz (BW 20 MHz) | | | | | | | |
|--|-------------|-------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 27560 | 738.0 | Right Cheek | Closed | 0.124 | 0.00 | 1 | Closed Loop |
| | | | | 0.050 | -60.08 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.063 | -49.03 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.086 | -30.48 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.037 | -69.92 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.049 | -60.32 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.072 | -42.10 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.028 | -77.42 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.039 | -68.47 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.040 | -67.50 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Right Tilt | Closed | 0.076 | 0.00 | 1 | Closed Loop |
| | | | | 0.030 | -59.74 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.039 | -48.74 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.053 | -30.07 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.022 | -70.33 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.031 | -59.34 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.044 | -41.59 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.018 | -76.82 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.024 | -67.95 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.038 | -50.33 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Right Cheek | Open | 0.080 | 0.00 | 1 | Closed Loop |
| | | | | 0.034 | -57.23 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.045 | -44.03 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.061 | -23.52 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.026 | -67.67 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.035 | -55.47 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.054 | -31.57 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.020 | -74.84 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.028 | -64.28 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.028 | -64.28 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | Right Tilt | Open | 0.042 | 0.00 | 1 | Closed Loop |
| | | | | 0.019 | -55.85 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.025 | -41.29 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.034 | -20.05 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.015 | -65.39 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.020 | -51.55 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.030 | -29.59 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.011 | -73.51 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.016 | -62.29 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.025 | -39.38 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - LTE Band 28 700 MHz (BW 20 MHz) | | | | | | | |
|--|-------------|------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 27560 | 738.0 | 15mm Back | Closed | 0.198 | 0.00 | 1 | Closed Loop |
| | | | | 0.066 | -66.46 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.083 | -57.88 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.110 | -44.44 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.049 | -75.30 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.064 | -67.83 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.090 | -54.34 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.037 | -81.41 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.049 | -75.05 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.075 | -62.32 | 10 | Cap 1= Min C, Cap 2= Min C |
| 27560 | 738.0 | 15mm Front | Closed | 0.188 | 0.00 | 1 | Closed Loop |
| | | | | 0.060 | -68.19 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.076 | -59.47 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.100 | -46.81 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.045 | -76.22 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.058 | -69.20 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.081 | -56.76 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.033 | -82.34 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.046 | -75.32 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.068 | -63.88 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHM181LW (STV100-4) |
| Hardware Rev. # | Rev 2-01 |
| Software Bundle # | AAC273 |
| Date | 8/28/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 190 | 836.6 | Left Cheek | Closed | 0.319 | 0.00 | 1 | Closed Loop |
| | | | | 0.319 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.304 | -4.70 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.275 | -13.79 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.181 | -43.26 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.161 | -49.53 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.134 | -57.99 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.086 | -73.10 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.075 | -76.39 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.061 | -80.78 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Tilt | Closed | 0.207 | 0.00 | 1 | Closed Loop |
| | | | | 0.204 | -1.45 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.196 | -5.31 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.179 | -13.53 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.115 | -44.44 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.105 | -49.28 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.091 | -56.18 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.056 | -73.09 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.050 | -75.85 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.043 | -79.32 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Cheek | Open | 0.224 | 0.00 | 1 | Closed Loop |
| | | | | 0.221 | -1.34 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.216 | -3.57 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.209 | -6.70 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.116 | -48.21 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.111 | -50.45 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.103 | -54.02 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.057 | -74.38 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.054 | -75.80 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.050 | -77.90 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | Left Tilt | Open | 0.128 | 0.00 | 1 | Closed Loop |
| | | | | 0.127 | -0.78 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.125 | -2.34 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.119 | -7.03 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.066 | -48.13 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.062 | -51.56 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.057 | -55.78 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.032 | -75.16 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.030 | -76.95 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.027 | -78.83 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 190 | 836.8 | Right Cheek | Closed | 0.443 | 0.00 | 1 | Closed Loop |
| | | | | 0.443 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.418 | -5.64 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.380 | -14.22 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.368 | -16.93 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.324 | -26.86 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.249 | -43.79 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.187 | -57.79 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.146 | -67.04 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.106 | -76.07 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Tilt | Closed | 0.259 | 0.00 | 1 | Closed Loop |
| | | | | 0.254 | -1.93 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.243 | -6.18 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.222 | -14.29 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.143 | -44.79 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.125 | -51.74 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.110 | -57.53 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.068 | -73.90 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.059 | -77.10 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.051 | -80.42 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Cheek | Open | 0.268 | 0.00 | 1 | Closed Loop |
| | | | | 0.265 | -1.12 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.263 | -1.87 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.261 | -2.61 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.262 | -2.24 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.264 | -1.49 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.124 | -53.73 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.070 | -74.03 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.066 | -75.37 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.066 | -75.37 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.8 | Right Tilt | Open | 0.149 | 0.00 | 1 | Closed Loop |
| | | | | 0.148 | -0.67 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.145 | -2.68 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.136 | -8.72 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.075 | -50.00 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.070 | -53.15 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.064 | -57.05 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.036 | -76.04 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.033 | -77.92 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.031 | -79.40 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 128 | 824.2 | 15mm Back | Closed | 0.374 | 0.00 | 1 | Closed Loop |
| | | | | 0.372 | -0.53 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.358 | -4.28 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.333 | -10.96 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.210 | -43.85 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.192 | -48.66 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.167 | -55.35 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.103 | -72.46 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.092 | -75.51 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.078 | -79.06 | 10 | Cap 1= Min C, Cap 2= Min C |
| 190 | 836.6 | 15mm Front | Closed | 0.447 | 0.00 | 1 | Closed Loop |
| | | | | 0.440 | -1.57 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.427 | -4.47 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.397 | -11.19 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.260 | -41.83 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.237 | -46.98 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.210 | -53.02 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.130 | -70.92 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.114 | -74.50 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.115 | -74.27 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHM181LW (STV100-4) |
| Hardware Rev. # | Rev 2-01 |
| Software Bundle # | AAC273 |
| Date | 8/21/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Hotspot (10mm Spacing) - GSM/EDGE/DTM 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 190 | 836.8 | 10mm Back | Open | 0.895 | 0.00 | 1 | Closed Loop |
| | | | | 0.894 | -0.11 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.831 | -7.15 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.773 | -13.63 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.507 | -43.35 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.474 | -47.04 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.420 | -53.07 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.252 | -71.84 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.228 | -74.53 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.196 | -78.10 | 10 | Cap 1= Min C, Cap 2= Min C |
| 128 | 824.2 | 10mm Front | Closed | 0.358 | 0.00 | 1 | Closed Loop |
| | | | | 0.349 | -2.51 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.349 | -2.51 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.345 | -3.63 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.196 | -45.25 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.196 | -45.25 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.188 | -47.49 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.105 | -70.67 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.103 | -71.23 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.097 | -72.99 | 10 | Cap 1= Min C, Cap 2= Min C |

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|-------------------|----------------------|
| Device Model | RHM181LW (STV100-4) |
| Hardware Rev. # | Rev 2-01 |
| Software Bundle # | AAC273 |
| Date | 9/16/2015 |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head -WCDMA/UMTS band V 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 4182 | 836.4 | Left Cheek | Closed | 0.251 | 0.00 | 1 | Closed Loop |
| | | | | 0.251 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.231 | -7.97 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.204 | -18.73 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.190 | -24.30 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.169 | -32.67 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.145 | -42.23 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.106 | -57.77 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.094 | -62.71 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.078 | -68.76 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Left Tilt | Closed | 0.135 | 0.00 | 1 | Closed Loop |
| | | | | 0.134 | -0.74 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.135 | 0.00 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.135 | 0.00 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.113 | -16.30 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.130 | -3.70 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.091 | -32.59 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.063 | -53.26 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.056 | -58.22 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.049 | -63.41 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Left Cheek | Open | 0.191 | 0.00 | 1 | Closed Loop |
| | | | | 0.187 | -2.09 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.182 | -4.71 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.171 | -10.47 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.128 | -32.98 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.122 | -36.13 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.114 | -40.31 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.072 | -62.46 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.068 | -64.61 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.063 | -66.91 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Left Tilt | Open | 0.115 | 0.00 | 1 | Closed Loop |
| | | | | 0.114 | -0.87 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.110 | -4.35 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.102 | -11.30 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.075 | -34.87 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.071 | -38.35 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.066 | -42.61 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.042 | -63.91 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.039 | -66.09 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.036 | -68.78 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Head -WCDMA/UMTS band V 850 MHz | | | | | | | |
|---|-------------|-------------|-----------------|-----------------|--------------------------|--------|-----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 4233 | 846.6 | Right Cheek | Closed | 0.309 | 0.00 | 1 | Closed Loop |
| | | | | 0.306 | -19.74 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.283 | -22.98 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.248 | -32.04 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.238 | -42.07 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.210 | -56.63 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.179 | -62.78 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.134 | -68.96 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.115 | -42.39 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.096 | -42.72 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Right Tilt | Closed | 0.178 | 0.00 | 1 | Closed Loop |
| | | | | 0.177 | -0.56 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.164 | -7.87 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.148 | -16.85 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.130 | -26.97 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.117 | -34.27 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.102 | -42.70 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.072 | -59.61 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.064 | -64.33 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.055 | -69.27 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Right Cheek | Open | 0.216 | 0.00 | 1 | Closed Loop |
| | | | | 0.215 | -0.46 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.208 | -8.80 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.197 | -32.87 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.145 | -35.65 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.139 | -40.28 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.129 | -62.08 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.082 | -64.21 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.077 | -66.71 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.072 | -76.84 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4182 | 836.4 | Right Tilt | Open | 0.155 | 0.00 | 1 | Closed Loop |
| | | | | 0.115 | -25.81 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.110 | -29.03 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.103 | -33.55 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.075 | -51.94 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.070 | -54.58 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.066 | -57.48 | 7 | Cap 1 = Mid C, Cap 2= Min C |
| | | | | 0.042 | -73.16 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.039 | -74.84 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.036 | -76.84 | 10 | Cap 1= Min C, Cap 2= Min C |

Single Point SAR Screening for Antenna Tuning States

| Measured SAR Values - Body-Worn (15mm Spacing) -WCDMA/UMTS band V 850 MHz | | | | | | | |
|---|-------------|------------|-----------------|-----------------|--------------------------|--------|----------------------------|
| Channel | Freq. (MHz) | Position | Slider Position | Max. SAR (W/kg) | % delta from Closed Loop | Scan # | Comments |
| 4132 | 826.4 | 15mm Back | Closed | 0.279 | 0.00 | 1 | Closed Loop |
| | | | | 0.277 | -0.72 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.260 | -6.81 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.237 | -15.05 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.210 | -24.73 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.191 | -31.54 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.168 | -39.78 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.119 | -57.35 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.107 | -61.65 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.079 | -71.83 | 10 | Cap 1= Min C, Cap 2= Min C |
| 4132 | 826.4 | 15mm Front | Closed | 0.334 | 0.00 | 1 | Closed Loop |
| | | | | 0.334 | 0.00 | 2 | Cap 1= Max C, Cap 2= Max C |
| | | | | 0.322 | -3.59 | 3 | Cap 1= Max C, Cap 2= Mid C |
| | | | | 0.306 | -8.38 | 4 | Cap 1= Max C, Cap 2= Min C |
| | | | | 0.250 | -25.15 | 5 | Cap 1= Mid C, Cap 2= Max C |
| | | | | 0.241 | -27.84 | 6 | Cap 1= Mid C, Cap 2= Mid C |
| | | | | 0.223 | -33.23 | 7 | Cap 1= Mid C, Cap 2= Min C |
| | | | | 0.159 | -52.40 | 8 | Cap 1= Min C, Cap 2= Max C |
| | | | | 0.153 | -54.19 | 9 | Cap 1= Min C, Cap 2= Mid C |
| | | | | 0.141 | -57.78 | 10 | Cap 1= Min C, Cap 2= Min C |

| | |
|-------------------|----------------------|
| Device Model | RHM181LW (STV100-4) |
| Hardware Rev. # | Rev 2-01 |
| Software Bundle # | AAC273 |
| Date | 8/23/2015 |

