



### Appendix F. FCC 3G SAR Measurement Procedures

#### Conducted Output Power:

The EUT was tested according to the requirements of the FCC 3G procedures and the TS 34.121. The EUT's WCDMA and HSDPA function is Release 5 version supporting HSDPA Category 6. A detailed analysis of the output power for all WCDMA, and HSDPA modes is provided in the tables below. According to the FCC 3G procedures, handsets with HSDPA should be tested according to Release 5 HSDPA test procedures, and the EUT does not support VOIP function over the HSDPA function. Device was tested according to procedure KDB941225 - section Release 5 HSDPA Data Devices as documented/evaluated in the following table.

| WCDMA SAR Test mode - Conducted Power |              |                 |             |             |                 |              |              |
|---------------------------------------|--------------|-----------------|-------------|-------------|-----------------|--------------|--------------|
| Mode                                  | Setup        | Cell band (850) |             |             | PCS band (1900) |              |              |
|                                       |              | CH4132          | CH4182      | CH4233      | CH9262          | CH9400       | CH9538       |
|                                       |              | 826.4 (MHz)     | 836.4 (MHz) | 846.6 (MHz) | 1852.4 (MHz)    | 1880.0 (MHz) | 1907.6 (MHz) |
| WCDMA                                 | RMC 12.2Kbps | 23.81           | 23.49       | 23.79       | 22.46           | 22.43        | 22.62        |
| HSDPA                                 | Subtest 1    | 23.73           | 23.39       | 23.58       | 22.29           | 22.26        | 22.57        |
|                                       | Subtest 2    | 23.72           | 23.17       | 23.68       | 22.37           | 22.33        | 22.61        |
|                                       | Subtest 3    | 22.96           | 22.38       | 22.83       | 21.34           | 21.30        | 21.58        |
|                                       | Subtest 4    | 22.94           | 22.28       | 22.82       | 21.34           | 21.28        | 21.63        |

**WCDMA Setup Configuration:**

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting
  - i. Data rates: Varied from RMC 12.2Kbps
  - ii. RMC Test Loop = Loop Mode 1
  - iii. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.



**Setup Configuration**

**HSDPA Setup Configuration:**

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each
  - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
  - iii. Set RMC12.2Kbps + HSDPA mode.
  - iv. Set Cell Power = -86 dBm
  - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
  - vi. Select HSDPA Uplink Parameters
  - vii. Set DeltaACK, DeltaNACK and DeltaCQI = 8
  - viii. Set Ack-Nack Repetition Factor to 3
  - ix. Set CQI Feedback Cycle (k) to 4 ms
  - x. Set CQI Repetition Factor to 2
  - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH**

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

Note 1:  $\Delta_{ACK}, \Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ .

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ , and  $\Delta_{CQI} = 24/15$  with  $\beta_{HS} = 24/15 * \beta_c$ .

Note 3: CM = 1 for  $\beta_c/\beta_d=12/15, \beta_{HS}/\beta_c=24/15$ . For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

**Setup Configuration**



| Call Setup Screen                        |  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
|--|--|--------|--------------------------------------|-------|-------------------------|------------|--|-----------|----------------------------------|--------------|-----------------------------|---|---------------------------|--------|-----------------------|----|-----------------------|----|-------------------------------------|--------|------------------------------|
| Call Control                             | Active Cell Operating Mode   |        | Call Parms                           |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Channel (UARFCN) Info                    | <table border="1"> <thead> <tr> <th colspan="2">UE Information</th> </tr> </thead> <tbody> <tr> <td>INSI:</td> <td></td> </tr> <tr> <td>INEI:</td> <td></td> </tr> <tr> <td>Power Class:</td> <td></td> </tr> </tbody> </table>  |        | UE Information                       |       | INSI:                   |            | INEI:                                    |           | Power Class:                     |              | Cell Power                  |   |                           |        |                       |    |                       |    |                                     |        |                              |
| UE Information                           |  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| INSI:                                    |  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| INEI:                                    |  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Power Class:                             |  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Cell Parameters                          | <table border="1"> <thead> <tr> <th colspan="2">UE Expected Open Loop Transmit Power</th> </tr> </thead> <tbody> <tr> <td>Initial PRACH TX Power:</td> <td>-11.70 dBm</td> </tr> <tr> <td>Initial DPCCCH TX Power:</td> <td>-0.56 dBm</td> </tr> </tbody> </table>   |        | UE Expected Open Loop Transmit Power |       | Initial PRACH TX Power: | -11.70 dBm | Initial DPCCCH TX Power:                 | -0.56 dBm | -86.00<br>dBm/3.84 MHz           |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| UE Expected Open Loop Transmit Power     |  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Initial PRACH TX Power:                  | -11.70 dBm   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Initial DPCCCH TX Power:                 | -0.56 dBm  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Generator Info                           | <table border="1"> <thead> <tr> <th>Uplink Parameters</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PRACH Preambles</td> <td>64</td> </tr> <tr> <td>PRACH Ramping Cycles (N<sub>MAX</sub>)</td> <td>2</td> </tr> <tr> <td>Available Subchannels (Bit Mask)</td> <td>000000000001</td> </tr> <tr> <td>Uplink DPCH Scrambling Code</td> <td>0</td> </tr> <tr> <td>Uplink DPCH Bc/Bd Control</td> <td>Manual</td> </tr> <tr> <td>Manual Uplink DPCH Bc</td> <td>11</td> </tr> <tr> <td>Manual Uplink DPCH Bd</td> <td>15</td> </tr> <tr> <td>Maximum Uplink Transmit Power Level</td> <td>21 dBm</td> </tr> </tbody> </table> |        | Uplink Parameters                    | Value | PRACH Preambles         | 64         | PRACH Ramping Cycles (N <sub>MAX</sub> ) | 2         | Available Subchannels (Bit Mask) | 000000000001 | Uplink DPCH Scrambling Code | 0 | Uplink DPCH Bc/Bd Control | Manual | Manual Uplink DPCH Bc | 11 | Manual Uplink DPCH Bd | 15 | Maximum Uplink Transmit Power Level | 21 dBm | Channel Type<br>12.2k + HSPA |
| Uplink Parameters                        | Value  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| PRACH Preambles                          | 64   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| PRACH Ramping Cycles (N <sub>MAX</sub> ) | 2  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Available Subchannels (Bit Mask)         | 000000000001   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Uplink DPCH Scrambling Code              | 0  |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Uplink DPCH Bc/Bd Control                | Manual   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Manual Uplink DPCH Bc                    | 11   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Manual Uplink DPCH Bd                    | 15   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Maximum Uplink Transmit Power Level      | 21 dBm   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Uplink Parameters                        |  |        | Paging Service<br>RB Test Mode       |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| UE Rep Params                            |  |        | HSPA Parameters                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| Close Menu                               |  |        | 34,121 Preset Call Configs           |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
|  | Active Cell<br>Idle  |        | Channel (UARFCN) Parms               |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
|  | Sys Type: UTRA FDD   |        |                                      |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |
| 2 of 4                                   | IntRef   | Offset | 1 of 3                               |       |                         |            |  |           |                                  |              |                             |   |                           |        |                       |    |                       |    |                                     |        |                              |

Example for HSPA Subtest 1, and other subtests following table, C11.1.3  
(Gain Factors ( $\beta_c = 11$  and  $\beta_d = 15$ ))

| Call Setup Screen                    |  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
|--------------------------------------|--|--------|--------------------------------------|--|-------------------------|------------|--------------------------|--------------------|---|--------------------------------|------------------------|--------------------------------|-----------|--------------------------------|---------------|--------------------------------|---------------------------|---------------------------------|-------------------|---------------------------------|---------------------------------|
| Call Control                         | Active Cell Operating Mode   |        | Serving Grant                        |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Additional Screens                   | <table border="1"> <thead> <tr> <th colspan="2">UE Information</th> </tr> </thead> <tbody> <tr> <td>INSI:</td> <td></td> </tr> <tr> <td>INEI:</td> <td></td> </tr> <tr> <td>Power Class:</td> <td></td> </tr> </tbody> </table>  |        | UE Information                       |  | INSI:                   |            | INEI:                    |                    | Power Class:                                |                                | AG Mode<br>Single Shot |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| UE Information                       |  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| INSI:                                |  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| INEI:                                |  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Power Class:                         |  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Cell Parameters                      | <table border="1"> <thead> <tr> <th colspan="2">UE Expected Open Loop Transmit Power</th> </tr> </thead> <tbody> <tr> <td>Initial PRACH TX Power:</td> <td>-11.70 dBm</td> </tr> <tr> <td>Initial DPCCCH TX Power:</td> <td>-0.56 dBm</td> </tr> </tbody> </table>   |        | UE Expected Open Loop Transmit Power |  | Initial PRACH TX Power: | -11.70 dBm | Initial DPCCCH TX Power: | -0.56 dBm          | Single Shot AG<br>20: (119/15) <sup>2</sup> |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| UE Expected Open Loop Transmit Power |  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Initial PRACH TX Power:              | -11.70 dBm   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Initial DPCCCH TX Power:             | -0.56 dBm  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Generator Info                       | <table border="1"> <thead> <tr> <th colspan="2">Call Processing Status</th> </tr> </thead> <tbody> <tr> <td>Current Service Type:</td> <td>None</td> </tr> <tr> <td>MM Status:</td> <td>Abs Single Shot AG</td> </tr> <tr> <td>GMN State:</td> <td>Index 15: (67/15)<sup>2</sup></td> </tr> <tr> <td>Current DPCH:</td> <td>Index 16: (75/15)<sup>2</sup></td> </tr> <tr> <td>HSUPA In:</td> <td>Index 17: (84/15)<sup>2</sup></td> </tr> <tr> <td>UE Rep E-DCH:</td> <td>Index 18: (95/15)<sup>2</sup></td> </tr> <tr> <td>Last Received Throughput:</td> <td>Index 19: (106/15)<sup>2</sup></td> </tr> <tr> <td>ACKs Transmitted:</td> <td>Index 20: (119/15)<sup>2</sup></td> </tr> </tbody> </table> |        | Call Processing Status               |  | Current Service Type:   | None       | MM Status:               | Abs Single Shot AG | GMN State:                                  | Index 15: (67/15) <sup>2</sup> | Current DPCH:          | Index 16: (75/15) <sup>2</sup> | HSUPA In: | Index 17: (84/15) <sup>2</sup> | UE Rep E-DCH: | Index 18: (95/15) <sup>2</sup> | Last Received Throughput: | Index 19: (106/15) <sup>2</sup> | ACKs Transmitted: | Index 20: (119/15) <sup>2</sup> | Send Single Shot Absolute Grant |
| Call Processing Status               |  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Current Service Type:                | None   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| MM Status:                           | Abs Single Shot AG   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| GMN State:                           | Index 15: (67/15) <sup>2</sup>   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Current DPCH:                        | Index 16: (75/15) <sup>2</sup>   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| HSUPA In:                            | Index 17: (84/15) <sup>2</sup>   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| UE Rep E-DCH:                        | Index 18: (95/15) <sup>2</sup>   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Last Received Throughput:            | Index 19: (106/15) <sup>2</sup>  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| ACKs Transmitted:                    | Index 20: (119/15) <sup>2</sup>  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Uplink Parameters                    |  |        | Send Relative Grant Up               |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| UE Rep Params                        |  |        | Send Relative Grant Down             |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| Trig Output Setup<br>Sys Frame Clock |  |        | Return                               |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
|                                      | Active Cell<br>Idle  |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
|                                      | Sys Type: UTRA FDD   |        |                                      |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |
| 2 of 4                               | IntRef   | Offset | 1 of 2                               |  |                         |            |                          |                    |   |                                |                        |                                |           |                                |               |                                |                           |                                 |                   |                                 |                                 |

Example: AG – Index = 20 for HSPA subtest 1



| Call Setup Screen                   |  |                                     |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
|-------------------------------------|--|-------------------------------------|-------------|--------------------|------|-----------|------|-----|--------|--------|--------|----|----|-----|----|-----|------|-----|------|-----|------|----|----|-----|----|-----|------|-----|------|-----|------|----|----|-----|----|-----|------|-----|------|-----|------|----|----|-----|----|-----|------|-----|------|-----|------|----|----|-----|------|-----|------|-----|------|-----|------|----|----|-----|------|-----|------|-----|------|-----|------|----|----|-----|------|-----|------|-----|------|-----|------|----|----|-----|------|-----|------|-----|------|-----|------|-----|----|-----|------|-----|------|-----|------|-----|------|--|
| Screen Ctrl                         | Recorded E-TFCI Information  | E-TFCI Record                       |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| Channel (UARFCN) Info               | E-TFCI Recording State   | E-TFCI Rec Count                    |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
|                                     | Idle   | 15                                  |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| HSPA Information                    | Recorded E-TFCI Values   | Start Recording E-TFCI Values       |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| E-TFCI Recording Information        | <table border="1"> <tr><td>1:</td><td>75</td><td>11:</td><td>75</td><td>21:</td><td>----</td><td>31:</td><td>----</td><td>41:</td><td>----</td></tr> <tr><td>2:</td><td>75</td><td>12:</td><td>75</td><td>22:</td><td>----</td><td>32:</td><td>----</td><td>42:</td><td>----</td></tr> <tr><td>3:</td><td>75</td><td>13:</td><td>75</td><td>23:</td><td>----</td><td>33:</td><td>----</td><td>43:</td><td>----</td></tr> <tr><td>4:</td><td>75</td><td>14:</td><td>75</td><td>24:</td><td>----</td><td>34:</td><td>----</td><td>44:</td><td>----</td></tr> <tr><td>5:</td><td>75</td><td>15:</td><td>75</td><td>25:</td><td>----</td><td>35:</td><td>----</td><td>45:</td><td>----</td></tr> <tr><td>6:</td><td>75</td><td>16:</td><td>----</td><td>26:</td><td>----</td><td>36:</td><td>----</td><td>46:</td><td>----</td></tr> <tr><td>7:</td><td>75</td><td>17:</td><td>----</td><td>27:</td><td>----</td><td>37:</td><td>----</td><td>47:</td><td>----</td></tr> <tr><td>8:</td><td>75</td><td>18:</td><td>----</td><td>28:</td><td>----</td><td>38:</td><td>----</td><td>48:</td><td>----</td></tr> <tr><td>9:</td><td>75</td><td>19:</td><td>----</td><td>29:</td><td>----</td><td>39:</td><td>----</td><td>49:</td><td>----</td></tr> <tr><td>10:</td><td>75</td><td>20:</td><td>----</td><td>30:</td><td>----</td><td>40:</td><td>----</td><td>50:</td><td>----</td></tr> </table> | 1:                                  | 75          | 11:                | 75   | 21:       | ---- | 31: | ----   | 41:    | ----   | 2: | 75 | 12: | 75 | 22: | ---- | 32: | ---- | 42: | ---- | 3: | 75 | 13: | 75 | 23: | ---- | 33: | ---- | 43: | ---- | 4: | 75 | 14: | 75 | 24: | ---- | 34: | ---- | 44: | ---- | 5: | 75 | 15: | 75 | 25: | ---- | 35: | ---- | 45: | ---- | 6: | 75 | 16: | ---- | 26: | ---- | 36: | ---- | 46: | ---- | 7: | 75 | 17: | ---- | 27: | ---- | 37: | ---- | 47: | ---- | 8: | 75 | 18: | ---- | 28: | ---- | 38: | ---- | 48: | ---- | 9: | 75 | 19: | ---- | 29: | ---- | 39: | ---- | 49: | ---- | 10: | 75 | 20: | ---- | 30: | ---- | 40: | ---- | 50: | ---- |  |
| 1:                                  | 75   | 11:                                 | 75          | 21:                | ---- | 31:       | ---- | 41: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 2:                                  | 75   | 12:                                 | 75          | 22:                | ---- | 32:       | ---- | 42: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 3:                                  | 75   | 13:                                 | 75          | 23:                | ---- | 33:       | ---- | 43: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 4:                                  | 75   | 14:                                 | 75          | 24:                | ---- | 34:       | ---- | 44: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 5:                                  | 75   | 15:                                 | 75          | 25:                | ---- | 35:       | ---- | 45: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 6:                                  | 75   | 16:                                 | ----        | 26:                | ---- | 36:       | ---- | 46: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 7:                                  | 75   | 17:                                 | ----        | 27:                | ---- | 37:       | ---- | 47: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 8:                                  | 75   | 18:                                 | ----        | 28:                | ---- | 38:       | ---- | 48: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 9:                                  | 75   | 19:                                 | ----        | 29:                | ---- | 39:       | ---- | 49: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| 10:                                 | 75   | 20:                                 | ----        | 30:                | ---- | 40:       | ---- | 50: | ----   |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| Clear UE Info                       | 15/15  | Send Step Up TPC Bit Pattern        |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| Return                              |  | Send Step Down TPC Bit Pattern      |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
|                                     | <table border="1"> <tr> <td><input type="checkbox"/> Background</td> <td>Active Cell</td> <td>Sys Type: UTRA FDD</td> </tr> <tr> <td></td> <td>Connected</td> <td></td> </tr> <tr> <td></td> <td>IntRef</td> <td>Offset</td> </tr> </table>  | <input type="checkbox"/> Background | Active Cell | Sys Type: UTRA FDD |      | Connected |      |     | IntRef | Offset | Return |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
| <input type="checkbox"/> Background | Active Cell  | Sys Type: UTRA FDD                  |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
|                                     | Connected  |                                     |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |
|                                     | IntRef   | Offset                              |             |                    |      |           |      |     |        |        |        |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |    |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |    |    |     |      |     |      |     |      |     |      |     |    |     |      |     |      |     |      |     |      |  |

Example: Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1



**Reference:**

- [1] 941225 D01 SAR test for 3G devices v02, SAR Measurement Procedures for 3G Devices CDMA 2000/Ev-Do/WCDMA/HSDPA/HSPA Oct. 2007 Laboratory Division Office of Engineering and Technology Federal Communications Commission
- [2.] TS 34.121 Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD)
- [3.] HSUPA Measurement Guide with 8960 V7.5.0 Release 7 (2007-06) Ver.: v.02.18