3GPP TSG-RAN WG4 Meeting # 111 R4-2407335

Fukuoka City, Fukuoka , Japan, 20th – 24th May, 2024

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** | 4347 | **rev** |  | **Current version:** | **17.13.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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| --- |
|  |
| ***Title:***  | (NR\_HST\_FR1\_enh) Deactivated Scell measurement for NR FR1 HST |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_HST\_FR1\_enh |  | ***Date:*** | 2024-05-10 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)**Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | Change 1: adding Scell configuration in CA test, which is missing from the previous version, applies to both A.4.6.1.8 and A.6.6.1.8Change 2: In A.6.6.1.8, cell 1 and cell 2,3 are on different RF channel, and therefore powering up cell 2 (or 3) doesn’t change Es/Iot and lo. Therefore, cell 1 Es/Iot and lo remains the same in T1 and T2. For RAN5 corresponding change, please refer to R5-243390. |
|  |  |
| ***Summary of change:*** | Correct configurations |
|  |  |
| ***Consequences if not approved:*** | Wrong test configurations |
|  |  |
| ***Clauses affected:*** | A.4.6.1.8, A.6.6.1.8 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS 38.533  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### <Start of Change 1>

#### A.4.6.1.8 EN-DC event triggered reporting tests for FR1 cell without SSB time index detection when DRX is used for UE configured with *highSpeedMeasCA-Scell-r17*

##### A.4.6.1.8.1 Test Purpose and Environment

The purpose of this test is to verify that the UE makes correct reporting of an event. This test will partly verify the EN-DC intra-frequency NR measurement requirements in clause 9.2.5.

In this test, there are four cells: LTE cell 1 as PCell on E-UTRA RF channel 1, NR cell 2 as PSCell in FR1 on NR RF channel 1, NR cell 3 as deactivated SCell in FR1 on NR RF channel 2, and NR cell 4 as neighbour cell on the same frequency as cell 3. The test parameters and configurations are given in Tables A.4.6.1.8.1-1, A.4.6.1.8.1-2, and A.4.6.1.8.1-3.

In the measurement control information, it is indicated to the UE that event-triggered reporting with Event A6 is used. The test consists of two successive time periods, with time duration of T1, and T2 respectively. During time duration T1, the UE shall not have any timing information of NR cell 3.

The configuration of LTE cell 1 is defined in table A.3.7.2.1-1. Supported test configurations are shown in table A.4.6.1.8.1-1.

Table A.4.6.1.8.1-1: Supported PCell and PSCell configurations in EN-DC event triggered reporting tests for FR1 cell without SSB time index detection when DRX is used for UE configured with *highSpeedMeasCA-Scell-r17*

|  |  |
| --- | --- |
| Config | Description |
| 1 | LTE FDD, NR 15 kHz SSB SCS, 10 MHz bandwidth, FDD duplex mode |
| 2 | LTE FDD, NR 15 kHz SSB SCS, 10 MHz bandwidth, TDD duplex mode |
| 3 | LTE FDD, NR 30 kHz SSB SCS, 40 MHz bandwidth, TDD duplex mode |
| 4 | LTE TDD, NR 15 kHz SSB SCS, 10 MHz bandwidth, FDD duplex mode |
| 5 | LTE TDD, NR 15 kHz SSB SCS, 10 MHz bandwidth, TDD duplex mode |
| 6 | LTE TDD, NR 30 kHz SSB SCS, 40 MHz bandwidth, TDD duplex mode |
| Note 1: The UE is only required to be tested in one of the supported test configurationsNote 2: The UE is only required to be tested in one of the supported test configurations with the smallest aggregated channel bandwidth from supported band combinations which is composed of CCs ≥ the bandwidth (BWchannel) defined in each test configuration |

Table 4.6.1.8.4.1-1A: Supported SCell test configurations in EN-DC event triggered reporting tests for FR1 cell without SSB time index detection when DRX is used for UE configured with *highSpeedMeasCA-Scell-r17*

|  |  |
| --- | --- |
| ConfigSCell | Description |
| 1A | 15 kHz SSB SCS, 10 MHz bandwidth, FDD duplex mode |
| 2A | 15 kHz SSB SCS, 10 MHz bandwidth, TDD duplex mode |
| 3A | 30 kHz SSB SCS, 40 MHz bandwidth, TDD duplex mode |
| Note 1: The UE is only required to be tested in one of the supported test configurations.Note 2: The UE is only required to be tested in one with smallest aggregated channel bandwidth from supported band combinations which is composed of CCs ≥ the bandwidth (BWchannel) defined in each test configuration.Note 3: NR Cell 4 has the same SCS, BW and duplex mode as NR Cell 3. |

Table A.4.6.1.8.1-2: General test parameters for EN-DC event triggered reporting tests for FR1 cell without SSB time index detection when DRX is used for UE configured with *highSpeedMeasCA-Scell-r17*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Unit | Test  | Value | Comment |
|  |  | configuration | Test 1 | Test 2 |  |
| highSpeedMeasCA-Scell-r17 |  | Config 1,2,3,4,5,6 | Present | To enable high speed measurement enhancements |
| E-UTRA RF Channel Number |  | Config 1,2,3,4,5,6 | 1 | One E-UTRAN carrier frequencies is used. |
| NR RF Channel Number |  | Config 1,2,3,4,5,6 | 1, 2 | Two FR1 NR carrier frequencies are used. |
| Active cell |  | Config 1,2,3,4,5,6 | LTE Cell 1 (PCell) and NR cell 2 (PScell) | LTE Cell 1 is on E-UTRA RF channel number 1.NR Cell 2 is on NR RF channel number 1. |
| Deactivated Scell |  | Config 1A,2A,3A | NR cell 3 | NR cell 3 is on NR RF channel number 2. |
| Neighbour cell |  | Config 1A,2A,3A | NR cell 4 | NR cell 4 is on NR RF channel number 2. |
| A6-Offset | dB | Config 1,2,3,4,5,6 | -4.5 |  |
| Hysteresis | dB | Config 1,2,3,4,5,6 | 0 |  |
| CP length |  | Config 1,2,3,4,5,6 | Normal |  |
| Measurement gap pattern Id |  |  | OFF |  |
| SCell measurement cycle (measCycleSCell) |  | Config 1,2,3,4,5,6 | 160 ms |  |
| TimeToTrigger | s | Config 1,2,3,4,5,6 | 0 |  |
| Filter coefficient |  | Config 1,2,3,4,5,6 | 0 | As specified in clause A.3.3 |
| DRX |  | Config 1,2,3,4,5,6 | DRX.4 |  |
| Time offset between PCell and PSCell |  | Config 1,2,3,4,5,6 | 3 μs | Synchronous EN-DC |
| Time alignment error between cell2 and cell3 | μs | ≤ Time alignment error as specified in TS 38.104 [13] clause 6.5.3.1. | The value of time alignment error depends upon the type of carrier aggregation. | Time alignment error between cell2 and cell3 |
| Time offset between serving l and neighbour cells |  | Config 1,4 | 3 ms | Asynchronous cells.The timing of Cell 4 is 3ms later than the timing of Cell 3. |
|  |  | Config 2,3,5,6 | 3 μs | Synchronous cells. |
| T1 | s | Config 1,2,3,4,5,6 | 5 |  |
| T2 | s | Config 1,2,3,4,5,6 | 1 |  |

Table A.4.6.1.8.1-3: Cell specific test parameters for EN-DC event triggered reporting tests for FR1 cell without SSB time index detection when DRX is used for UE configured with *highSpeedMeasCA-Scell-r17*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Unit | Test  | Cell 2 | Cell 3 | Cell 4 |
|  |  | configuration | T1 | T2 | T1 | T2 | T1 | T2 |
| NR RF Channel Number |  | Config 1,2,3,4,5,6,1A,2A,3A | 1 | 2 | 2 |
| Duplex mode |  | Config 1,4,1A | FDD | FDD |
|  |  | Config 2,3,5,6,2A,3A | TDD | TDD |
| BWchannel | MHz | Config 1,4,1A | 10: NRB,c = 52 | 10: NRB,c = 52 |
|  |  | Config 2,5,2A | 10: NRB,c = 52 | 10: NRB,c = 52 |
|  |  | Config 3,6,3A | 40: NRB,c = 106 | 40: NRB,c = 106 |
| BWP BW | MHz | Config 1,4,1A | 10: NRB,c = 52 | 10: NRB,c = 52 |
|  |  | Config 2,5,2A | 10: NRB,c = 52 | 10: NRB,c = 52 |
|  |  | Config 3,6,3A | 40: NRB,c = 106 | 40: NRB,c = 106 |
| TDD configuration |  | Config 2,5,2A | TDDConf.1.1 | TDDConf.1.1 | TDDConf.1.1 |
|  |  | Config 3,6,3A | TDDConf.2.1 | TDDConf.2.1 | TDDConf.2.1 |
| Initial DL BWP |  | Config 1,2,3,4,5,6,1A,2A,3A | DLBWP.0.1 | DLBWP.0.1 | DLBWP.0.1 |
| Initial UL BWP |  | Config 1,2,3,4,5,6,1A,2A,3A | ULBWP.0.1 | NA | NA |
| Dedicated DL BWP |  | Config 1,2,3,4,5,6,1A,2A,3A | DLBWP.1.1 | DLBWP.1.1 | DLBWP.1.1 |
| Dedicated UL BWP |  | Config 1,2,3,4,5,6,1A,2A,3A | ULBWP.1.1 | NA | NA |
| TRS configuration |  | Config 1,4,1A | TRS.1.1 FDD | NA | NA |
|  |  | Config 2,5,2A | TRS.1.1 TDD | NA | NA |
|  |  | Config 3,6,3A | TRS.1.2 TDD | NA | NA |
| OCNG Patterns defined in A.3.2.1.1 (OP.1)  |  | Config 1,2,3,4,5,6, ,1A,2A,3A | OP.1 | OP.1 | OP.1 |
| PDSCH Reference  |  | Config 1,4,1A | SR.1.1 FDD | SR.1.1 FDD | SR.1.1 FDD |
| measurement channel |  | Config 2,5,2A | SR.1.1 TDD | SR.1.1 TDD | SR.1.1 TDD |
|  |  | Config 3,6,3A | SR2.1 TDD | SR2.1 TDD | SR2.1 TDD |
| RMSI CORESET Reference  |  | Config 1,4,1A | CR.1.1 FDD | CR.1.1 FDD | CR.1.1 FDD |
| Channel |  | Config 2,5,2A | CR.1.1 TDD | CR.1.1 TDD | CR.1.1 TDD |
|  |  | Config 3,6,3A | CR2.1 TDD | CR2.1 TDD | CR2.1 TDD |
| Dedicated CORESET Reference Channel |  | Config 1,4,1A | CCR.1.1 FDD  | CCR.1.1 FDD  | CCR.1.1 FDD  |
|  | Config 2,5,2A | CCR.1.1 TDD | CCR.1.1 TDD | CCR.1.1 TDD |
|  | Config 3,6,3A | CCR.2.1 TDD | CCR.2.1 TDD | CCR.2.1 TDD |
| SSB parameters |  | Config 1,4,1A | SSB.1 FR1 | SSB.5 FR1 | SSB.5 FR1 |
|  |  | Config 2,5,2A | SSB.1 FR1 | SSB.5 FR1 | SSB.5 FR1 |
|  |  | Config 3,6,3A | SSB.2 FR1 | SSB.6 FR1 | SSB.6 FR1 |
| SMTC configuration  |  | Config 1,4,1A | SMTC.2 | SMTC.5 | SMTC.5 |
| defined in A.3.11 |  | Config 2,3,5,6,2A,3A | SMTC.1 | SMTC.4 | SMTC.4 |
| PDSCH/PDCCH  | kHz | Config 1,2,4,5,1A,2A | 15 |
| subcarrier spacing |  | Config 3,6,3A | 30 |
| EPRE ratio of PSS to SSS |  |  |  |  |  |
| EPRE ratio of PBCH DMRS to SSS |  |  |  |  |  |
| EPRE ratio of PBCH to PBCH DMRS |  |  |  |  |  |
| EPRE ratio of PDCCH DMRS to SSS |  |  |  |  |  |
| EPRE ratio of PDCCH to PDCCH DMRS |  | Config 1,2,3,4,5,6,1A,2A,3A | 0 | 0 | 0 |
| EPRE ratio of PDSCH DMRS to SSS  |  |  |  |  |  |
| EPRE ratio of PDSCH to PDSCH  |  |  |  |  |  |
| EPRE ratio of OCNG DMRS to SSS(Note 1) |  |  |  |  |  |
| EPRE ratio of OCNG to OCNG DMRS (Note 1) |  |  |  |  |  |
| Note2 | dBm/15kHz |  | -98 | -98 | -98 |
| Note2 | dBm/SCS | Config 1,2,4,5,1A,2A | -98 | -98 | -98 |
|  | Config 3,6,3A | -95 | -95 | -95 |
| SS-RSRP Note 3 | dBm/SCS | Config 1,2,4,5,1A,2A | -94 | -94 | -94 | -94 | -Infinity | -94 |
|  | Config 3,6,3A | -91 | -91 | -91 | -91 | -Infinity | -91 |
|  | dB | Config 1,2,3,4,5,6,1A,2A,3A | 4 | 4 | 4 | -1.46 | -Infinity | -1.46 |
|  | dB | Config 1,2,3,4,5,6,1A,2A,3A | 4 | 4 | 4 | 4 | -Infinity | 4 |
| IoNote3 | dBm/9.36MHz | Config 1,2,4,5,1A,2A | -64.59 | -64.59 | -64.59 | -62.26 | -64.59 | -62.26 |
|  | dBm/38.16MHz | Config 3,6,3A | -58.49 | -58.49 | -58.49 | -56.15 | -58.49 | -56.15 |
| Propagation Condition  |  | Config 1,2,4,5,1A,2A | AWGN | AWGN  | AWGN 1944Hz Note 5 |
|  | Config 3,6,3A | AWGN | AWGN  | AWGN 3334Hz Note 6 |
| Note 1: OCNG shall be used such that both cells are fully allocated and a constant total transmitted power spectral density is achieved for all OFDM symbols.Note 2: Interference from other cells and noise sources not specified in the test is assumed to be constant over subcarriers and time and shall be modelled as AWGN of appropriate power for  to be fulfilled.Note 3: SS-RSRP and Io levels have been derived from other parameters for information purposes. They are not settable parameters themselves.Note 4: SS-RSRP minimum requirements are specified assuming independent interference and noise at each receiver antenna port.Note 5: The AWGN 1944 Hz condition is a non fading propagation channel with one tap. Doppler shift is a constant 1944Hz.Note 6: The AWGN 3334 Hz condition is a non fading propagation channel with one tap. Doppler shift is a constant 3334Hz. |

##### A.4.6.1.8.2 Test Requirements

The UE shall send one Event A6 triggered measurement report, with a measurement reporting delay less than 1600 ms from the beginning of time period T2. The UE shall not send event triggered measurement reports, as long as the reporting criteria are not fulfilled. The rate of correct events observed during repeated tests shall be at least 90%.

UE is not required to report SSB time index.

NOTE: The actual overall delays measured in the test may be up to 2xTTIDCCH higher than the measurement reporting delays above because of TTI insertion uncertainty of the measurement report in DCCH.

### <End of Change 1>

### <Start of Change 2>

#### A.6.6.1.8 SA event triggered reporting tests without gap under DRX for UE configured with highSpeedMeasCA-Scell-r17

##### A.6.6.1.8.1 Test purpose and Environment

The purpose of this test is to verify that the UE makes correct reporting of an event for UE configured with highSpeedMeasCA-Scell-r17. This test will partly verify the intra-frequency cell search requirements in clause 9.2.5.1 and 9.2.5.2.

##### A.6.6.1.8.2 Test parameters

Three cells are deployed in the test, which are FR1 PCell (Cell 1), a FR1 deactivated SCell (Cell 2) and a FR1 neighbour cell (Cell 3) on the same frequency as the SCell (Cell 2). The test parameters for PCell are given in Table A.6.6.1.8.21, A.6.6.1.8.2-2 and A.6.6.1.8.2-3 below. In the measurement control information, a measurement object is configured for the frequency of the SCell, and it is indicated to the UE that event-triggered reporting with Event A6 is used. The test consists of two successive time periods, with time duration of T1, and T2 respectively. During time duration T1, the UE shall not have any timing information of Cell 3.

UE needs to be provided with new Timing Advance Command MAC control element at least once during each time alignment timer period to maintain uplink time alignment. Furhtermore UE is allocated with PUSCH resource at every DRX cycle.

Table A.6.6.1.8.2-1: Supported PCell test configurations

|  |  |
| --- | --- |
| Configuration | Description |
| 1 | 15 kHz SSB SCS, 10 MHz bandwidth, FDD duplex mode |
| 2 | 15 kHz SSB SCS, 10 MHz bandwidth, TDD duplex mode |
| 3 | 30 kHz SSB SCS, 40 MHz bandwidth, TDD duplex mode |
| Note 1: The UE is only required to be tested in one of the supported test configurations.Note 2: The UE is only required to be tested in one of the supported test configurations with the smallest aggregated channel bandwidth from supported band combinations which is composed of CCs ≥ the bandwidth (BWchannel) defined in each test configuration. |

Table 6.6.1.8.4.1-1A: Supported SCell test configurations

|  |  |
| --- | --- |
| ConfigurationSCell | Description |
| 1A | 15 kHz SSB SCS, 10 MHz bandwidth, FDD duplex mode |
| 2A | 15 kHz SSB SCS, 10 MHz bandwidth, TDD duplex mode |
| 3A | 30 kHz SSB SCS, 40 MHz bandwidth, TDD duplex mode |
| Note 1: The UE is only required to be tested in one of the supported test configurations.Note 2: The UE is only required to be tested in one with smallest aggregated channel bandwidth from supported band combinations which is composed of CCs ≥ the bandwidth (BWchannel) defined in each test configuration.Note 3: NR Cell 3 has the same SCS, BW and duplex mode as NR Cell 2. |

Table A.6.6.1.8.2-2: General test parameters for SA intra-frequency event triggered reporting without gap for deactivated SCell in FR1 with DRX highSpeedMeasCA-Scell-r17

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Unit | Test configuration | Value | Comment |
|  |  |  |  |
| highSpeedMeasCA-Scell-r17 |  | 1,2,3 | Present | To enable high speed measurement enhancements |
| Active cell |  | 1, 2, 3 | Cell 1 |  |
| Deactivated SCell |  | 1A, 2A, 3A | Cell 2 |  |
| Neighbour cell |  | 1A, 2A, 3A | Cell 3 | Cell to be identified. |
| RF Channel Number |  | 1, 2, 3 | 1: Cell 1 2: Cell 2 and 3 |  |
| SSB configuration |  | 1 | SSB.1 FR1 |  |
|  |  | 2 | SSB.1 FR1 |  |
|  |  | 3 | SSB.2 FR1 |  |
| SMTC configuration |  | 1 | SMTC.2 |  |
|  |  | 2 | SMTC.1 |  |
|  |  | 3 | SMTC.1 |  |
| A6-Offset | dB | 1, 2, 3 | -4.5 |  |
| CP length |  | 1, 2, 3 | Normal |  |
| Hysteresis | dB | 1, 2, 3 | 0 |  |
| Time To Trigger | s | 1, 2, 3 | 0 |  |
| Filter coefficient |  | 1, 2, 3 | 0 | L3 filtering is not used |
| DRX |  | 1, 2, 3 | DRX.6 |  |
| measCycleSCell |  | 1, 2, 3 | 640ms |  |
| Time offset between serving and neighbour cells |  | 1 | 3 ms | Asynchronous cells.The timing of Cell 3 is 3ms later than the timing of Cell 2. |
|  |  | 2 | 3 μs  | Synchronous cells  |
|  |  | 3 | 3 μs | Synchronous cells |
| T1 | s | 1, 2, 3 | 5 |  |
| T2 | s | 1, 2, 3 | 10 |  |

Table A.6.6.1.8.2-3: NR Cell specific test parameters for SA intra-frequency event triggered reporting without gap for deactivated SCell in FR1 with DRX highSpeedMeasCA-Scell-r17

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Unit | Test configuration | Cell 1 | Cell 2 | Cell 3 |
|  |  |  |
| TDD configuration |  | 1,1A | N/A | N/A | N/A |
|  |  | 2,2A | TDDConf.1.1 | TDDConf.1.1 | TDDConf.1.1 |
|  |  | 3,3A | TDDConf.2.1 | TDDConf.2.1 | TDDConf.2.1 |
| PDSCH RMC configuration |  | 1,1A | SR.1.1 FDD | N/A | N/A |
|  |  | 2,2A | SR.1.1 TDD |  |  |
|  |  | 3,3A | SR.2.1 TDD |  |  |
| RMSI CORESET RMC configuration |  | 1,1A | CR.1.1 FDD | N/A | N/A |
|  |  | 2,2A | CR.1.1 TDD | N/A | N/A |
|  |  | 3,3A | CR.2.1 TDD | N/A | N/A |
| Dedicated CORESET RMC configuration |  | 1,1A | CCR.1.1 FDD | N/A | N/A |
|  |  | 2,2A | CCR.1.1 TDD | N/A | N/A |
|  |  | 3,3A | CCR.2.1 TDD | N/A | N/A |
| OCNG Patterns |  | 1, 2, 3,1A,2A,3A | OP.1 | OP.1 | OP.1 |
| TRS configuration |  | 1,1A | TRS.1.1 FDD | N/A | N/A |
| 2,2A | TRS.1.1 TDD | N/A | N/A |
| 3,3A | TRS.1.2 TDD | N/A | N/A |
| IInitial BWP configuration |  | 1, 2, 3,1A,2A,3A | DLBWP.0.1 ULBWP.0.1 | DLBWP.0.1 ULBWP.0.1 | DLBWP.0.1 ULBWP.0.1 |
| Active DL BWP configuration |  | 1, 2, 3,1A,2A,3A | DLBWP.1.1 | DLBWP.1.1 | DLBWP.1.1 |
| Active UL BWP configuration |  | 1, 2, 3,1A,2A,3A | ULBWP.1.1 | ULBWP.1.1 | ULBWP.1.1 |
| RLM-RS |  | 1, 2, 3,1A,2A,3A | SSB | SSB | SSB |
|  Note 2 | dBm/SCS | 1,1A | -98 |
|  |  | 2,2A | -98 |
|  |  | 3,3A | -95 |
|  Note 2 | dBm/15 kHz | 1,1A | -98 |
|  |  | 2,2A |  |
|  |  | 3,3A |  |
|  | dB | 1,1A | 4 | 4 | 4 | -1.46 | -Infinity | -1.46 |
|  |  | 2,2A |  |  |  |  |  |  |
|  |  | 3,3A |  |  |  |  |  |  |
|  | dB | 1,1A | 4 | 4 | 4 | 4 | -Infinity | 4 |
|  |  | 2,2A |  |  |  |  |  |  |
|  |  | 3,3A |  |  |  |  |  |  |
| SSB\_RP Note 3 | dBm/SCS kHz | 1,1A | -94 | -94 | -94 | -94 | -Infinity | -94 |
|  |  | 2,2A | -94 | -94 | -94 | -94 | -Infinity | -94 |
|  |  | 3,3A | -91 | -91 | -91 | -91 | -Infinity | -91 |
| Io | dBm/9.36 MHz | 1,1A | -64.60 | -64.60 | -64.60 | -62.25 | -64.60 | -62.25 |
|  | dBm/9.36 MHz | 2,2A | -64.60 | -64.60 | -64.60 | -62.25 | -64.60 | -62.25 |
|  | dBm/38.16 MHz | 3,3A | -58.50 | -58.50 | -58.50 | -56.16 | -58.50 | -56.16 |
| Propagation Condition |  | 1,2,1A,2A | AWGN | AWGN 1944Hz Note 4 |
|  | 3,3A | AWGN | AWGN 3334Hz Note 5 |
| Note 1: The resources for uplink transmission are assigned to the UE prior to the start of time period T2.Note 2: Interference from other cells and noise sources not specified in the test is assumed to be constant over subcarriers and time and shall be modelled as AWGN of appropriate power for  to be fulfilled.Note 3: SS-RSRP levels have been derived from other parameters for information purposes. They are not settable parameters themselves.Note 4: The AWGN 1944 Hz condition is a non fading propagation channel with one tap. Doppler shift is a constant 1944Hz.Note 5: The AWGN 3334 Hz condition is a non fading propagation channel with one tap. Doppler shift is a constant 3334Hz. |

##### A.6.6.1.8.3 Test Requirements

The UE shall send one Event A6 triggered measurement report, with a measurement reporting delay less than 5760 ms from the beginning of time period T2. The UE is not required to read the neighbour cell SSB index in this test.

The UE shall not send event triggered measurement reports, as long as the reporting criteria are not fulfilled.

The rate of correct events observed during repeated tests shall be at least 90%.

NOTE: The actual overall delays measured in the test may be up to 2xTTIDCCH higher than the measurement reporting delays above because of TTI insertion uncertainty of the measurement report in DCCH.

### <End of Change 2>