**3GPP TSG-RAN WG4 Meeting #102-e R4-2205682**

**Electronic Meeting, 21 February – 03 March 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0696** | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Big CR 38.101-3 new combinations NR CA Inter-band 4DL/1UL | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CA\_R17\_4BDL\_1BUL-Core | | | | |  | ***Date:*** | | | 2022-03-03 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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 can be 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Adding new combinations NR CA Inter-band 4DL/1UL | | | | | | | | |
|  | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | New combinations at RAN4 101-bis-e:  CA\_n1-n3-n28-n257  CA\_n1-n3-n79-n257  CA\_n1-n28-n77-n257  CA\_n1-n28-n79-n257  CA\_n3-n28-n41-n257  CA\_n3-n41-n77-n257  CA\_n28-n41-n77-n257  CA\_n28-n78-n79-n257  Corrections:  Adding a clarification Note 2 in Table 5.5A.1-3  Left shift Note 1 in Table 5.5A.1-3 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Approved combinations NR CA Inter-band 4DL/1UL are not added | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2, 5.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **x** |  | Test specifications | | | | TS 38.521-3 | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

---Start of changes---

Table 5.2A.1-3: Band combinations for inter-band CA between FR1 and FR2 (four bands)

|  |  |
| --- | --- |
| NR CA Band | NR Band |
| CA\_n1-n3-n8-n257 | n1, n3, n8, n257 |
| CA\_n1-n3-n28-n2571 | n1, n3, n28, n257 |
| CA\_n1-n3-n77-n257 | n1, n3, n77, n257 |
| CA\_n1-n3-n79-n2571 | n1, n3, n79, n257 |
| CA\_n1-n8-n77-n257 | n1, n8, n77, n257 |
| CA\_n1-n28-n77-n2571 | n1, n28, n77, n257 |
| CA\_n1-n28-n79-n2571 | n1, n28, n79, n257 |
| CA\_n1-n77-n79-n257 | n1, n77, n79, n257 |
| CA\_n1-n78-n79-n257 | n1, n78, n79, n257 |
| CA\_n3-n8-n77-n257 | n3, n8, n77, n257 |
| CA\_n3-n28-n41-n2571 | n3, n28, n41, n257 |
| CA\_n3-n28-n77-n2571 | n3, n28, n77, n257 |
| CA\_n3-n28-n78-n2571 | n3, n28, n78, n257 |
| CA\_n3-n41-n77-n257 | n3, n41, n77, n257 |
| CA\_n3-n77-n79-n257 | n3, n77, n79, n257 |
| CA\_n3-n28-n79-n257 | n3, n28, n79, n257 |
| CA\_n28-n41-n77-n257 | n28, n41, n77, n257 |
| CA\_n28-n77-n79-n257 | n28, n77, n79, n257 |
| CA\_n28-n78-n79-n257 | n28, n78, n79, n257 |
| NOTE 1: Applicable for UE supporting inter-band carrier aggregation with mandatory simultaneous Rx/Tx capability. | |

---Text omitted---

Table 5.5A.1-3: Inter-band CA configurations and bandwidth combination sets between FR1 and FR2 (four bands)

| NR CA configuration | Uplink configuration | NR Band | Channel bandwidth (MHz) (NOTE 1) | | | | | | | | | | | | | | | Bandwidth combination set |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 200 | 400 |  |
| CA\_n1A-n3A-n8A-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n3A-n8A-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n8A-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n8A-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n8A-n257J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257J | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n8A-n257K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257K | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n8A-n257L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257L | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n8A-n257M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257M | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n28A-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n3A-n28A-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n28A-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n28A-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77A-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n3A-n77A-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77A-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77A-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77A-n257J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257J | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77A-n257K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257K | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77A-n257L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257L | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77A-n257M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257M | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77(2A)-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n3A-n77(2A)-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77(2A)-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77(2A)-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77(2A)-n257J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257J | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77(2A)-n257K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257K | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77(2A)-n257L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257L | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n77(2A)-n257M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257M | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n79A-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 300 |  |
| CA\_n1A-n3A-n79A-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n79A-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n3A-n79A-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77A-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n8A-n77A-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77A-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77A-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77A-n257J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257J | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77A-n257K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257K | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77A-n257L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257L | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77A-n257M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257M | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77(2A)-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n8A-n77(2A)-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77(2A)-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77(2A)-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77(2A)-n257J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257J | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77(2A)-n257K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257K | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77(2A)-n257L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257L | | | | | | | | | | | | | | |  |
| CA\_n1A-n8A-n77(2A)-n257M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257M | | | | | | | | | | | | | | |  |
| CA\_n1A-n28A-n77A-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n28A-n77A-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n28A-n77A-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n28A-n77A-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n28A-n79A-n257A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n28A-n79A-n257G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n28A-n79A-n257H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n28A-n79A-n257I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n77A-n79A-n257A | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n77A-n79A-n257G | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n79A-n257A  CA\_n79A-n257G CA\_n257G | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n77A-n79A-n257H | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H CA\_n257G CA\_n257H | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n77A-n79A-n257I | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n1A-n257I  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I CA\_n257G CA\_n257H CA\_n257I | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n79A-n257A | CA\_n1A-n78A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n79A-n257A | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n78A-n79A-n257G | CA\_n1A-n78A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n257G | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n79A-n257H | CA\_n1A-n78A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H CA\_n257G CA\_n257H | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n79A-n257I | CA\_n1A-n78A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n1A-n257I  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H  CA\_n78A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I CA\_n257G CA\_n257H CA\_n257I | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77A-n257A | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n8A-n77A-n257G | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77A-n257H | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77A-n257I | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77A-n257J | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257J | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77A-n257K | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257K | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77A-n257L | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257L | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77A-n257M | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257M | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77(2A)-n257A | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n8A-n77(2A)-n257G | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77(2A)-n257H | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77(2A)-n257I | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77(2A)-n257J | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257J | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77(2A)-n257K | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257K | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77(2A)-n257L | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257L | | | | | | | | | | | | | | |  |
| CA\_n3A-n8A-n77(2A)-n257M | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n8 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257M | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n41A-n257A | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n28A-n41A-n257G | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n41A-n257H | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n41A-n257I | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77A-n257A | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n28A-n77A CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n28A-n77A-n257D | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77A-n257G | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n28A-n77A CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n77A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77A-n257H | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n28A-n77A CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n77A-n257G  CA\_n3A-n257H  CA\_n28A-n257H  CA\_n77A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77A-n257I | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n28A-n77A CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n77A-n257G  CA\_n3A-n257H  CA\_n28A-n257H  CA\_n77A-n257H  CA\_n3A-n257I  CA\_n28A-n257I  CA\_n77A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77(2A)-n257A | CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n28A-n77(2A)-n257D | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77(2A)-n257G | CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n77A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77(2A)-n257H | CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n77A-n257G  CA\_n3A-n257H  CA\_n28A-n257H  CA\_n77A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n77(2A)-n257I | CA\_n3A-n257A  CA\_n28A-n257A  CA\_n77A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n77A-n257G  CA\_n3A-n257H  CA\_n28A-n257H  CA\_n77A-n257H  CA\_n3A-n257I  CA\_n28A-n257I  CA\_n77A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n78A-n257A | CA\_n28A-n257A  CA\_n78A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n28A-n78A-n257D | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n78A-n257G | CA\_n3A-n257A  CA\_n28A-n257A  CA\_n78A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n78A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n78A-n257H | CA\_n3A-n257A  CA\_n28A-n257A  CA\_n78A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n78A-n257G  CA\_n3A-n257H  CA\_n28A-n257H  CA\_n78A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n78A-n257I | CA\_n3A-n257A  CA\_n28A-n257A  CA\_n78A-n257A  CA\_n3A-n257G  CA\_n28A-n257G  CA\_n78A-n257G  CA\_n3A-n257H  CA\_n28A-n257H  CA\_n78A-n257H  CA\_n3A-n257I  CA\_n28A-n257I  CA\_n78A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n79A-n257A | CA\_n3A-n28A CA\_n3A-n79A CA\_n3A-n257A CA\_n28A-n79A  CA\_n28A-n257A  CA\_n79A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n28A-n79A-n257G | CA\_n3A-n28A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n79A-n257H | CA\_n3A-n28A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n79A-n257I | CA\_n3A-n28A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n28A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n41A-n77A-n257A | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n41A-n77A-n257G | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n41A-n77A-n257H | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n41A-n77A-n257I | - | n3 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n77A-n79A-n257A | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n77A-n79A-n257G | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n77A-n79A-n257H | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n77A-n79A-n257I | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n77(2A)-n79A-n257A | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n77(2A)-n79A-n257G | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n77(2A)-n79A-n257H | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n77(2A)-n79A-n257I | CA\_n3A-n77A CA\_n3A-n79A CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n28A-n41A-n77A-n257A | - | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n41A-n77A-n257G | - | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n77 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n77A-n79A-n257A | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n77A-n79A-n257G | CA\_n257G CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n77A-n79A-n257H | CA\_n257G  CA\_n257H CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n28A-n77A-n79A-n257I | CA\_n257G  CA\_n257H  CA\_n257I CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n28A-n257I  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n28A-n77(2A)-n79A-n257A | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n77(2A)-n79A-n257G | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n77(2A)-n79A-n257H | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n28A-n77(2A)-n79A-n257I | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n28A-n257I  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 |  |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n28A-n78A-n79A-n257A | - | n28 | 5 | 10 | 15 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  |  |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n78A-n79A-n257G | CA\_n257G | n28 | 5 | 10 | 15 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n78A-n79A-n257H | CA\_n257G  CA\_n257H | n28 | 5 | 10 | 15 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n28A-n78A-n79A-n257I | CA\_n257G  CA\_n257H  CA\_n257I | n28 | 5 | 10 | 15 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| NOTE 1: The SCS of each channel bandwidth for NR FR1 and NR FR2 band refers to Table 5.3.5-1 of TS 38.101-1 and TS 38.101-2 respectively.  NOTE 2: The CA configurations are given in Table 5.5A.1-1 of either TS 38.101-1 or TS 38.101-2 where unless otherwise stated BCS0 is referred to. | | | | | | | | | | | | | | | | | | |

---End of changes---