**3GPP TSG-RAN WG4 Meeting #100-e R4-2112946**

**Electronic Meeting, 16th – 27th Aug, 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-3** | **CR** | **0622** | **rev** | **-** | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *For* ***[HELP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <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:*** | CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE Corporation | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_R17\_3BDL\_2BUL-Core | | | | |  | ***Date:*** | | | 2021-08-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Completed inter-band CA combinations for 3 bands DL with 2 bands UL are introduced into TS 38.101-3 in RAN4 #100-e : | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The following approved contributions of inter-band CA for 3 bands DL with 2 bands UL are added from RAN4 #100-e   1. R4-2112066 Draft CR for TS 38.101-3: Support of DC\_n3-n79-n257 and DC\_n77-n79-n257, SoftBank Corp. 2. R4-2112939 TP for TR38.717-03-02\_CA\_n40A-n41A-n258A，ZTE Corporation 3. R4-2113576 draft CR 38.101-3 to include new configurations for CA\_n7-n78-n258， Ericsson, Telstra | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The requirements for above band combinations are incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2A.1, 5.5A.1, 5.5B.7.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS/TR ... CR ... 38.521-3 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

## << Start of change >>

## 5.5A Configuration for CA

#### 5.5A.1 Inter-band CA configurations between FR1 and FR2

The configurations for operating bands for CA including Band n41 also apply for the corresponding operating bands for CA with Band n90 replacing Band n41 but with otherwise identical parameters. For brevity the said configuration for operating bands for CA with Band n90 are not listed in the tables below but are covered by this specification.

## *<< unchanged texts are omitted >>*

Table 5.5A.1-2: Inter-band CA configurations and bandwidth combination sets between FR1 and FR2 (three 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-n40A-n258A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n40A-n258D | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258D | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258E | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258E | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258F | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258F | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258G | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258H | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258I | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258J | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258K | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258L | | | | | | | | | | | | | | |  |
| CA\_n1A-n40A-n258M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  |  |
|  |  | n258 | CA\_n258M | | | | | | | | | | | | | | |  |
| CA\_n1A-n77A-n257A | CA\_n1A-n77A  CA\_n1A-n257A  CA\_n77A-n257A | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n77A-n257G | CA\_n257G  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n77A-n257A  CA\_n77A-n257G | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n77A-n257H | CA\_n257G  CA\_n257H  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n77A-n257I | CA\_n257G  CA\_n257H  CA\_n257I  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n1A-n257I  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n257A | CA\_n1A-n78A  CA\_n1A-n257A  CA\_n78A-n257A | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n78A-n257D | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |
| n257 | CA\_n257D | | | | | | | | | | | | | | |
| CA\_n1A-n78A-n257E | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |
| n257 | CA\_n257E | | | | | | | | | | | | | | |
| CA\_n1A-n78A-n257F | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |
| n257 | CA\_n257F | | | | | | | | | | | | | | |
| CA\_n1A-n78A-n257G | CA\_n257G  CA\_n1A-n78A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n78A-n257A  CA\_n78A-n257G | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n257H | CA\_n257G  CA\_n257H  CA\_n1A-n78A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n257I | CA\_n257G  CA\_n257H  CA\_n257I  CA\_n1A-n78A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n1A-n257I  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H  CA\_n78A-n257I | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n257J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |
| n257 | CA\_n257J | | | | | | | | | | | | | | |
| CA\_n1A-n78A-n257K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |
| n257 | CA\_n257K | | | | | | | | | | | | | | |
| CA\_n1A-n78A-n257L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |
| n257 | CA\_n257L | | | | | | | | | | | | | | |
| CA\_n1A-n78A-n257M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |
| n257 | CA\_n257M | | | | | | | | | | | | | | |
| CA\_n1A-n78A-n258A | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n78A-n258D | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258D | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258E | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258E | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258F | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258F | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258G | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258G | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258H | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258H | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258I | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258I | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258J | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258J | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258K | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258K | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258L | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258L | | | | | | | | | | | | | | |  |
| CA\_n1A-n78A-n258M | - | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258M | | | | | | | | | | | | | | |  |
| CA\_n1A-n79A-n257A | CA\_n1A-n79A  CA\_n1A-n257A  CA\_n79A-n257A | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n1A-n79A-n257G | CA\_n257G  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n1A-n79A-n257H | CA\_n257G  CA\_n257H  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n1A-n79A-n257I | CA\_n257G  CA\_n257H  CA\_n257I  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n1A-n257G  CA\_n1A-n257H  CA\_n1A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I | n1 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n260A | CA\_n77A-n260A  CA\_n2A-n260A | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n2A-n77A-n260I | CA\_n2A-n260A  CA\_n2A-n260G  CA\_n2A-n260H  CA\_n2A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260I | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n260J | CA\_n2A-n260A  CA\_n2A-n260G  CA\_n2A-n260H  CA\_n2A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260J | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n260K | CA\_n2A-n260A  CA\_n2A-n260G  CA\_n2A-n260H  CA\_n2A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260K | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n260L | CA\_n2A-n260A  CA\_n2A-n260G  CA\_n2A-n260H  CA\_n2A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260L | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n260M | CA\_n2A-n260A  CA\_n2A-n260G  CA\_n2A-n260H  CA\_n2A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260M | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n261A | CA\_n77A-n261A  CA\_n2A-n261A | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n2A-n77A-n261I | CA\_n2A-n261A  CA\_n2A-n261G  CA\_n2A-n261H  CA\_n2A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261I | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n261J | CA\_n2A-n261A  CA\_n2A-n261G  CA\_n2A-n261H  CA\_n2A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261J | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n261K | CA\_n2A-n261A  CA\_n2A-n261G  CA\_n2A-n261H  CA\_n2A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261K | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n261L | CA\_n2A-n261A  CA\_n2A-n261G  CA\_n2A-n261H  CA\_n2A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261L | | | | | | | | | | | | | | |  |
| CA\_n2A-n77A-n261M | CA\_n2A-n261A  CA\_n2A-n261G  CA\_n2A-n261H  CA\_n2A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n2 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261M | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n257A | CA\_n3A-n28A  CA\_n3A-n257A  CA\_n28A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n28A-n257D | CA\_n3A-n28A  CA\_n3A-n257A  CA\_n3A-n257D  CA\_n28A-n257A  CA\_n28A-n257D | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n257G | CA\_n3A-n28A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n28A-n257A  CA\_n28A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n257H | CA\_n3A-n28A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n28A-n257I | CA\_n3A-n28A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n28A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n77A-n257A | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n77A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n77A-n257D | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257D  CA\_n77A-n257A  CA\_n77A-n257D | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n3A-n77A-n257G | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n77A-n257A  CA\_n77A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n77A-n257H | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n77A-n257I | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n77(2A)-n257A | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n77A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n77(2A)-n257D | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257D  CA\_n77A-n257A  CA\_n77A-n257D | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n3A-n77(2A)-n257G | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257D  CA\_n3A-n257G  CA\_n77A-n257A  CA\_n77A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n77(2A)-n257H | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n77(2A)-n257I | CA\_n3A-n77A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n78A-n257A | CA\_n3A-n78A  CA\_n3A-n257A  CA\_n78A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n78A-n257D | CA\_n3A-n78A  CA\_n3A-n257A  CA\_n3A-n257D  CA\_n78A-n257A  CA\_n78A-n257D | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n3A-n78A-n257G | CA\_n3A-n78A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n78A-n257A  CA\_n78A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n78A-n257H | CA\_n3A-n78A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n78A-n257I | CA\_n3A-n78A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H  CA\_n78A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n3A-n79A-n257A | CA\_n3A-n79A  CA\_n3A-n257A  CA\_n79A-n257A | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n3A-n79A-n257G | CA\_n257G  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n3A-n79A-n257H | CA\_n257G  CA\_n257H  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n3A-n79A-n257I | CA\_n257G  CA\_n257H  CA\_n257I  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n3A-n257G  CA\_n3A-n257H  CA\_n3A-n257I  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H  CA\_n79A-n257I | n3 | 5 | 10 | 15 | 20 | 25 | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n260A | CA\_n77A-n260A  CA\_n5A-n260A | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n5A-n77A-n260I | CA\_n5A-n260A  CA\_n5A-n260G  CA\_n5A-n260H  CA\_n5A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260I | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n260J | CA\_n5A-n260A  CA\_n5A-n260G  CA\_n5A-n260H  CA\_n5A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260J | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n260K | CA\_n5A-n260A  CA\_n5A-n260G  CA\_n5A-n260H  CA\_n5A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260K | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n260L | CA\_n5A-n260A  CA\_n5A-n260G  CA\_n5A-n260H  CA\_n5A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260L | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n260M | CA\_n5A-n260A  CA\_n5A-n260G  CA\_n5A-n260H  CA\_n5A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260M | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n261A | CA\_n77A-n261A  CA\_n5A-n261A | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n5A-n77A-n261I | CA\_n5A-n261A  CA\_n5A-n261G  CA\_n5A-n261H  CA\_n5A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261I | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n261J | CA\_n5A-n261A  CA\_n5A-n261G  CA\_n5A-n261H  CA\_n5A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261J | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n261K | CA\_n5A-n261A  CA\_n5A-n261G  CA\_n5A-n261H  CA\_n5A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261K | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n261L | CA\_n5A-n261A  CA\_n5A-n261G  CA\_n5A-n261H  CA\_n5A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261L | | | | | | | | | | | | | | |  |
| CA\_n5A-n77A-n261M | CA\_n5A-n261A  CA\_n5A-n261G  CA\_n5A-n261H  CA\_n5A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n5 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261M | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258A | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n78A-n258A | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |
|  |  | n258 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |
| CA\_n7A-n78A-n258B | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258B  CA\_n78A-n258A  CA\_n78A-n258B | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258B | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258C | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258B  CA\_n7A-n258C  CA\_n78A-n258A  CA\_n78A-n258B  CA\_n78A-n258C | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258C | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258D | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258D  CA\_n78A-n258A  CA\_n78A-n258D | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |
|  |  | n258 | CA\_n258D | | | | | | | | | | | | | | |
| CA\_n7A-n78A-n258E | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258D  CA\_n7A-n258E  CA\_n78A-n258A  CA\_n78A-n258D  CA\_n78A-n258E | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258E | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258F | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258D  CA\_n7A-n258E  CA\_n7A-n258F  CA\_n78A-n258A  CA\_n78A-n258D  CA\_n78A-n258E  CA\_n78A-n258F | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |
|  |  | n258 | CA\_n258F | | | | | | | | | | | | | | |
| CA\_n7A-n78A-n258G | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258G  CA\_n78A-n258A  CA\_n78A-n258G | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258G | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258H | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258G  CA\_n7A-n258H  CA\_n78A-n258G  CA\_n78A-n258H | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |
|  |  | n258 | CA\_n258H | | | | | | | | | | | | | | |
| CA\_n7A-n78A-n258I | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258G  CA\_n7A-n258H  CA\_n7A-n258I  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258I | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258J | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258G  CA\_n7A-n258H  CA\_n7A-n258I  CA\_n7A-n258J  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258J | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258K | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258G  CA\_n7A-n258H  CA\_n7A-n258I  CA\_n7A-n258J  CA\_n7A-n258K  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J  CA\_n78A-n258K | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |
|  |  | n258 | CA\_n258K | | | | | | | | | | | | | | |
| CA\_n7A-n78A-n258L | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258G  CA\_n7A-n258H  CA\_n7A-n258I  CA\_n7A-n258J  CA\_n7A-n258K  CA\_n7A-n258L  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J  CA\_n78A-n258K  CA\_n78A-n258L | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258L | | | | | | | | | | | | | | |  |
| CA\_n7A-n78A-n258M | CA\_n7A-n78A  CA\_n7A-n258A  CA\_n7A-n258G  CA\_n7A-n258H  CA\_n7A-n258I  CA\_n7A-n258J  CA\_n7A-n258K  CA\_n7A-n258L  CA\_n7A-n258M  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J  CA\_n78A-n258K  CA\_n78A-n258L  CA\_n78A-n258M | n7 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258M | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258A | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n78A-n258A | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258A | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258B | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258B  CA\_n78A-n258A  CA\_n78A-n258B | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258B | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258C | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258B  CA\_n7B-n258C  CA\_n78A-n258A  CA\_n78A-n258B  CA\_n78A-n258C | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258C | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258D | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258D  CA\_n78A-n258A  CA\_n78A-n258D | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258D | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258E | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258D  CA\_n7B-n258E  CA\_n78A-n258A  CA\_n78A-n258D  CA\_n78A-n258E | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258E | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258F | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258D  CA\_n7B-n258E  CA\_n7B-n258F  CA\_n78A-n258A  CA\_n78A-n258D  CA\_n78A-n258E  CA\_n78A-n258F | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258F | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258G | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258G  CA\_n78A-n258A  CA\_n78A-n258G | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258G | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258H | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258G  CA\_n7B-n258H  CA\_n78A-n258G  CA\_n78A-n258H | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258H | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258I | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258G  CA\_n7B-n258H  CA\_n7B-n258I  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258 | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258I | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258J | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258G  CA\_n7B-n258H  CA\_n7B-n258I  CA\_n7B-n258J  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258J | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258K | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258G  CA\_n7B-n258H  CA\_n7B-n258I  CA\_n7B-n258J  CA\_n7B-n258K  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J  CA\_n78A-n258K | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258K | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258L | CA\_n7B  CA\_n7B-n258A  CA\_n7B-n258G  CA\_n7B-n258H  CA\_n7B-n258I  CA\_n7B-n258J  CA\_n7B-n258K  CA\_n7B-n258L  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J  CA\_n78A-n258K  CA\_n78A-n258L | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258L | | | | | | | | | | | | | | |  |
| CA\_n7B-n78A-n258M | CA\_n7B  CA\_n7B-n78A  CA\_n7B-n258A  CA\_n7B-n258G  CA\_n7B-n258H  CA\_n7B-n258I  CA\_n7B-n258J  CA\_n7B-n258K  CA\_n7B-n258L  CA\_n7B-n258M  CA\_n78A-n258A  CA\_n78A-n258G  CA\_n78A-n258H  CA\_n78A-n258I  CA\_n78A-n258J  CA\_n78A-n258K  CA\_n78A-n258L  CA\_n78A-n258M | n7 | CA\_n7B | | | | | | | | | | | | | | | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258M | | | | | | | | | | | | | | |  |
| CA\_n28A-n77A-n257A | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n77A-n257A | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n77A-n257D |  | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n28A-n77A-n257G | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n77A-n257A  CA\_n77A-n257G | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n77A-n257H | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n28A-n77A-n257I | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n28A-n257I  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n28A-n77(2A)-n257A | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n77A-n257A | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n77(2A)-n257D | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n28A-n257D  CA\_n77A-n257A  CA\_n77A-n257D | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n28A-n77(2A)-n257G | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n77A-n257A  CA\_n77A-n257G | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n77(2A)-n257H | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n28A-n77(2A)-n257I | CA\_n28A-n77A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n28A-n257I  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n77A-n257I | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 | CA\_n77(2A) | | | | | | | | | | | | | | |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n28A-n78A-n257A | CA\_n28A-n78A, CA\_n28A-n257A, CA\_n78A-n257A | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n78A-n257D | CA\_n28A-n78A  CA\_n28A-n257A  CA\_n28A-n257D  CA\_n78A-n257A  CA\_n78A-n257D | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257D | | | | | | | | | | | | | | |  |
| CA\_n28A-n78A-n257G | CA\_n28A-n78A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n78A-n257A  CA\_n78A-n257G | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n78A-n257H | CA\_n28A-n78A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n28A-n78A-n257I | CA\_n28A-n78A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n28A-n257I  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H  CA\_n78A-n257I | n28 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n28A-n79A-n257A | CA\_n28A-n79A  CA\_n28A-n257A  CA\_n79A-n257A | n28 | 5 | 10 | 15 | 20 |  | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n28A-n79A-n257G | CA\_n257G  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n28 | 5 | 10 | 15 | 20 |  | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n28A-n79A-n257H | CA\_n257G  CA\_n257H  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n28A-n257G  CA\_n28A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n28 | 5 | 10 | 15 | 20 |  | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n28A-n79A-n257I | CA\_n257G  CA\_n257H  CA\_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 | n28 | 5 | 10 | 15 | 20 |  | 30 |  |  |  |  |  |  |  |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n40A-n41A-n258A | CA\_n40A-n41A  CA\_n40A-n258A  CA\_n41A-n258A | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  | 80 |  |  |  |  | 0 |
|  |  | n41 |  | 10 | 15 | 20 |  | 30 | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  |  |
|  |  | n258 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n40A-n78A-n258A | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  | 100 |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n40A-n78A-n258D | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258D | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258E | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258E | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258F | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258F | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258G | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258G | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258H | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258H | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258I | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258I | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258J | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258J | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258K | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258K | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258L | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258L | | | | | | | | | | | | | | |  |
| CA\_n40A-n78A-n258M | - | n40 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |  |  |  |  |  |  | 0 |
|  |  | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  |  | 90 | 100 |  |  |  |
|  |  | n258 | CA\_n258M | | | | | | | | | | | | | | |  |
| CA\_n41A-n79A-n258A | CA\_n41A-n79A  CA\_n41A-n258A  CA\_n79A-n258A | n41 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n258 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n66A-n77A-n260A | CA\_n77A-n260A  CA\_n66A-n260A | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n260 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n66A-n77A-n260I | CA\_n66A-n260A  CA\_n66A-n260G  CA\_n66A-n260H  CA\_n66A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n260 | CA\_n260I | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260I | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n260J | CA\_n66A-n260A  CA\_n66A-n260G  CA\_n66A-n260H  CA\_n66A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n260 | CA\_n260J | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260J | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n260K | CA\_n66A-n260A  CA\_n66A-n260G  CA\_n66A-n260H  CA\_n66A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n260 | CA\_n260K | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260K | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n260L | CA\_n66A-n260A  CA\_n66A-n260G  CA\_n66A-n260H  CA\_n66A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n260 | CA\_n260L | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260L | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n260M | CA\_n66A-n260A  CA\_n66A-n260G  CA\_n66A-n260H  CA\_n66A-n260I  CA\_n77A-n260A  CA\_n77A-n260G  CA\_n77A-n260H  CA\_n77A-n260I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n260 | CA\_n260M | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n260 | CA\_n260M | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n261A | CA\_n77A-n261A  CA\_n66A-n261A | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n261 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n66A-n77A-n261I | CA\_n66A-n261A  CA\_n66A-n261G  CA\_n66A-n261H  CA\_n66A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n261 | CA\_n261I | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261I | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n261J | CA\_n66A-n261A  CA\_n66A-n261G  CA\_n66A-n261H  CA\_n66A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n261 | CA\_n261J | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261J | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n261K | CA\_n66A-n261A  CA\_n66A-n261G  CA\_n66A-n261H  CA\_n66A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n261 | CA\_n261K | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261K | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n261L | CA\_n66A-n261A  CA\_n66A-n261G  CA\_n66A-n261H  CA\_n66A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n261 | CA\_n261L | | | | | | | | | | | | | | |  |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261L | | | | | | | | | | | | | | |  |
| CA\_n66A-n77A-n261M | CA\_n66A-n261A  CA\_n66A-n261G  CA\_n66A-n261H  CA\_n66A-n261I  CA\_n77A-n261A  CA\_n77A-n261G  CA\_n77A-n261H  CA\_n77A-n261I | n66 | 5 | 10 | 15 | 20 |  |  | 40 |  |  |  |  |  |  |  |  | 0 |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
| n261 | CA\_n261M | | | | | | | | | | | | | | |  |
|  |  | n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |  |  | 1 |
|  |  | n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |  |  |
|  |  | n261 | CA\_n261M | | | | | | | | | | | | | | |  |
| CA\_n77A-n79A-n257A | CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n77A-n79A-n257G | CA\_n257G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n77A-n79A-n257H | CA\_n257G  CA\_n257H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n77A-n79A-n257I | CA\_n257G  CA\_n257H  CA\_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 | n77 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n77(2A)-n79A-n257A | CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n77 | CA\_n77(2A) | | | | | | | | | | | | | | | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n77(2A)-n79A-n257G | CA\_n257G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n77 | CA\_n77(2A) | | | | | | | | | | | | | | | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n77(2A)-n79A-n257H | CA\_n257G  CA\_n257H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G  CA\_n77A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n77 | CA\_n77(2A) | | | | | | | | | | | | | | | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n77(2A)-n79A-n257I | CA\_n257G  CA\_n257H  CA\_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 | n77 | CA\_n77(2A) | | | | | | | | | | | | | | | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257I | | | | | | | | | | | | | | |  |
| CA\_n78A-n79A-n257A | CA\_n78A-n79A  CA\_n78A-n257A  CA\_n79A-n257A | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |
| CA\_n78A-n79A-n257G | CA\_n257G  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n79A-n257A  CA\_n79A-n257G | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257G | | | | | | | | | | | | | | |  |
| CA\_n78A-n79A-n257H | CA\_n257G  CA\_n257H  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n257G  CA\_n78A-n257H  CA\_n79A-n257A  CA\_n79A-n257G  CA\_n79A-n257H | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n257 | CA\_n257H | | | | | | | | | | | | | | |  |
| CA\_n78A-n79A-n257I | CA\_n257G  CA\_n257H  CA\_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 | n78 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | 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. | | | | | | | | | | | | | | | | | | |

## << Next change >>

#### 5.5B.7.2 Inter-band NR-DC configurations between FR1 and FR2 (three bands)

Table 5.5B.7-2: Inter-band NR-DC configurations between FR1 and FR2 (three bands)

| Downlink NR DC  configuration | Uplink NR DC  configuration |
| --- | --- |
| DC\_n1A-n77A-n257A  DC\_n1A-n77A-n257G  DC\_n1A-n77A-n257H  DC\_n1A-n77A-n257I | DC\_n1A-n257A  DC\_n1A-n257G  DC\_n1A-n257H  DC\_n1A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n1A-n78A-n257A  DC\_n1A-n78A-n257G  DC\_n1A-n78A-n257H  DC\_n1A-n78A-n257I | DC\_n1A-n257A  DC\_n1A-n257G  DC\_n1A-n257H  DC\_n1A-n257I  DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I |
| DC\_n1A-n79A-n257A  DC\_n1A-n79A-n257G  DC\_n1A-n79A-n257H  DC\_n1A-n79A-n257I | DC\_n1A-n257A  DC\_n1A-n257G  DC\_n1A-n257H  DC\_n1A-n257I  DC\_n79A-n257A  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I |
| DC\_n2A-n77A-n260A  DC\_n2A-n77A-n260I  DC\_n2A-n77A-n260J  DC\_n2A-n77A-n260K  DC\_n2A-n77A-n260L  DC\_n2A-n77A-n260M | DC\_n2A-n260A  DC\_n2A-n260G  DC\_n2A-n260H  DC\_n2A-n260I  DC\_n77A-n260A  DC\_n77A-n260G  DC\_n77A-n260H  DC\_n77A-n260I |
| DC\_n2A-n77A-n261A  DC\_n2A-n77A-n261I  DC\_n2A-n77A-n261J  DC\_n2A-n77A-n261K  DC\_n2A-n77A-n261L  DC\_n2A-n77A-n261M | DC\_n2A-n261A  DC\_n2A-n261G  DC\_n2A-n261H  DC\_n2A-n261I  DC\_n77A-n261A  DC\_n77A-n261G  DC\_n77A-n261H  DC\_n77A-n261I |
| DC\_n3A-n28A-n257A  DC\_n3A-n28A-n257G  DC\_n3A-n28A-n257H  DC\_n3A-n28A-n257I | DC\_n3A-n28A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I |
| DC\_n3A-n41A-n257A  DC\_n3A-n41A-n257G  DC\_n3A-n41A-n257H  DC\_n3A-n41A-n257I | DC\_n3A-n41A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n41A-n257A  DC\_n41A-n257G  DC\_n41A-n257H  DC\_n41A-n257I |
| DC\_n3A-n77A-n257A  DC\_n3A-n77A-n257G  DC\_n3A-n77A-n257H  DC\_n3A-n77A-n257I | DC\_n3A-n77A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n3A-n77(2A)-n257A  DC\_n3A-n77(2A)-n257G  DC\_n3A-n77(2A)-n257H  DC\_n3A-n77(2A)-n257I | DC\_n3A-n77A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n3A-n78A-n257A  DC\_n3A-n78A-n257G  DC\_n3A-n78A-n257H  DC\_n3A-n78A-n257I | DC\_n3A-n78A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I |
| DC\_n3A-n79A-n257A  DC\_n3A-n79A-n257G  DC\_n3A-n79A-n257H  DC\_n3A-n79A-n257I | DC\_n3A-n79A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n79A-n257A  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I |
| DC\_n5A-n77A-n260A  DC\_n5A-n77A-n260I  DC\_n5A-n77A-n260J  DC\_n5A-n77A-n260K  DC\_n5A-n77A-n260L  DC\_n5A-n77A-n260M | DC\_n5A-n260A  DC\_n5A-n260G  DC\_n5A-n260H  DC\_n5A-n260I  DC\_n77A-n260A  DC\_n77A-n260G  DC\_n77A-n260H  DC\_n77A-n260I |
| DC\_n5A-n77A-n261A  DC\_n5A-n77A-n261I  DC\_n5A-n77A-n261J  DC\_n5A-n77A-n261K  DC\_n5A-n77A-n261L  DC\_n5A-n77A-n261M | DC\_n5A-n261A  DC\_n5A-n261G  DC\_n5A-n261H  DC\_n5A-n261I  DC\_n77A-n261A  DC\_n77A-n261G  DC\_n77A-n261H  DC\_n77A-n261I |
| DC\_n28A-n41A-n257A  DC\_n28A-n41A-n257G  DC\_n28A-n41A-n257H  DC\_n28A-n41A-n257I | DC\_n28A-n41A  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I  DC\_n41A-n257A  DC\_n41A-n257G  DC\_n41A-n257H  DC\_n41A-n257 I |
| DC\_n28A-n77A-n257A  DC\_n28A-n77A-n257G  DC\_n28A-n77A-n257H  DC\_n28A-n77A-n257I | DC\_n28A-n77A  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n28A-n77(2A)-n257A  DC\_n28A-n77(2A)-n257G  DC\_n28A-n77(2A)-n257H  DC\_n28A-n77(2A)-n257I | DC\_n28A-n77A  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n28A-n78A-n257A  DC\_n28A-n78A-n257G  DC\_n28A-n78A-n257H  DC\_n28A-n78A-n257I | DC\_n28A-n78A  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I  DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I |
| DC\_n41A-n77A-n257A  DC\_n41A-n77A-n257G  DC\_n41A-n77A-n257H  DC\_n41A-n77A-n257I | DC\_n41A-n77A  DC\_n41A-n257A  DC\_n41A-n257G  DC\_n41A-n257H  DC\_n41A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n41A-n78A-n257A  DC\_n41A-n78A-n257G  DC\_n41A-n78A-n257H  DC\_n41A-n78A-n257I | DC\_n41A-n78A  DC\_n41A-n257A  DC\_n41A-n257G  DC\_n41A-n257H  DC\_n41A-n257I  DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I |
| DC\_n66A-n77A-n260A  DC\_n66A-n77A-n260I  DC\_n66A-n77A-n260J  DC\_n66A-n77A-n260K  DC\_n66A-n77A-n260L  DC\_n66A-n77A-n260M | DC\_n66A-n260A  DC\_n66A-n260G  DC\_n66A-n260H  DC\_n66A-n260I  DC\_n77A-n260A  DC\_n77A-n260G  DC\_n77A-n260H  DC\_n77A-n260I |
| DC\_n66A-n77A-n261A  DC\_n66A-n77A-n261I  DC\_n66A-n77A-n261J  DC\_n66A-n77A-n261K  DC\_n66A-n77A-n261L  DC\_n66A-n77A-n261M | DC\_n66A-n261A  DC\_n66A-n261G  DC\_n66A-n261H  DC\_n66A-n261I  DC\_n77A-n261A  DC\_n77A-n261G  DC\_n77A-n261H  DC\_n77A-n261I |
| DC\_n77A-n79A-n257A  DC\_n77A-n79A-n257G  DC\_n77A-n79A-n257H  DC\_n77A-n79A-n257I | DC\_n77A-n79A  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I  DC\_n79A-n257A  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I |
| DC\_n77(2A)-n79A-n257A  DC\_n77(2A)-n79A-n257G  DC\_n77(2A)-n79A-n257H  DC\_n77(2A)-n79A-n257I | DC\_n77A-n79A  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I  DC\_n79A-n257A  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I |
| DC\_n78A-n79A-n257A  DC\_n78A-n79A-n257G  DC\_n78A-n79A-n257H  DC\_n78A-n79A-n257I | DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I  DC\_n79A-n257A  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I |

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