**3GPP TSG-RAN WG4 Meeting # 110R4-2402374**

**Athens, Greece, February 26 – March 1, 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-3** | **CR** | **1171** | **rev** | **-** | **Current version:** | **18.4.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Big CR 38.101-3 new combinations Rel-18 NR Inter-band CA/DC for y bands DL with x bands UL (y=4,5,6, x=1,2) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_R18\_yBDL\_xBUL-Core | | | | |  | ***Date:*** | | | 2024-03-01 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | Implementing draft CRs endorsed in RAN4 meeting #110 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Implemented draft CRs:  R4-2403782:  To amend the subclause structure for inter-band CA configurations between FR1 and FR2 with four bands and with five bands.  R4-2403783:  CA\_n7-n26-n78-n258  DC\_n7-n26-n78-n258 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The endorsed draft CRs are not inclluded in the specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2A.1, 5.5A.1, 5.5A.1.3 (new), 5.5A.1.4 (new), 5.5B.7.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 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-n257 | n1, n3, n28, n257 |
| CA\_n1-n3-n41-n257 | n1, n3, n41, n257 |
| CA\_n1-n3-n77-n257 | n1, n3, n77, n257 |
| CA\_n1-n3-n79-n257 | n1, n3, n79, n257 |
| CA\_n1-n8-n77-n257 | n1, n8, n77, n257 |
| CA\_n1-n8-n78-n2571 | n1, n8, n78, n257 |
| CA\_n1-n28-n41-n257 | n1, n28, n41, n257 |
| CA\_n1-n28-n77-n257 | n1, n28, n77, n257 |
| CA\_n1-n28-n79-n257 | n1, n28, n79, n257 |
| CA\_n1-n41-n77-n257 | n1, n41, n77, n257 |
| CA\_n1-n41-n79-n257 | n1, n41, n79, n257 |
| CA\_n1-n77-n79-n257 | n1, n77, n79, n257 |
| CA\_n1-n78-n79-n257 | n1, n78, n79, n257 |
| CA\_n2-n5-n48-n260 | n2, n5, n48, n260 |
| CA\_n2-n5-n48-n261 | n2, n5, n48, n261 |
| CA\_n2-n5-n66-n260 | n2, n5, n66, n260 |
| CA\_n2-n5-n66-n261 | n2, n5, n66, n261 |
| CA\_n2-n5-n77-n260 | n2, n5, n77, n260 |
| CA\_n2-n5-n77-n261 | n2, n5, n77, n261 |
| CA\_n2-n48-n66-n260 | n2, n48, n66, n260 |
| CA\_n2-n48-n66-n261 | n2, n48, n66, n261 |
| CA\_n2-n66-n77-n260 | n2, n66, n77, n260 |
| CA\_n2-n66-n77-n261 | n2, n66, n77, n261 |
| CA\_n3-n7-n78-n258 | n3, n7, n78, n258 |
| CA\_n3-n8-n77-n257 | n3, n8, n77, n257 |
| CA\_n3-n28-n41-n257 | 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-n41-n79-n257 | n3, n41, n79, n257 |
| CA\_n3-n77-n79-n257 | n3, n77, n79, n257 |
| CA\_n3-n28-n79-n257 | n3, n28, n79, n257 |
| CA\_n7-n26-n78-n258 | n7, n26, n78, n258 |
| CA\_n28-n41-n77-n257 | n28, n41, n77, n257 |
| CA\_n28-n41-n79-n257 | n28, n41, n79, n257 |
| CA\_n5-n48-n66-n260 | n5, n48, n66, n260 |
| CA\_n5-n48-n66-n261 | n5, n48, n66, n261 |
| CA\_n5-n66-n77-n260 | n5, n66, n77, n260 |
| CA\_n5-n66-n77-n261 | n5, n66, n77, n261 |
| CA\_n28-n77-n79-n257 | n28, n77, n79, n257 |
| CA\_n28-n78-n79-n257 | n28, n78, n79, n257 |
| CA\_n41-n77-n79-n257 | n41, n77, n79, n257 |
| CA\_n77-n79-n257-n259 | n77, n79, n257, n259 |
| CA\_n78-n79-n257-n259 | n78, n79, n257, n259 |
| NOTE 1: Applicable for UE supporting inter-band carrier aggregation with mandatory simultaneous Rx/Tx capability. | |

---Text omitted---

5.5A Configuration for CA

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

Table 5.5A.1-3: Void

Table 5.5A.1-4: Void

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.

The configuration tables for CA describe Bandwidth Combination Sets. Bandwidth Combination Set 4 and 5 contains all possible defined channel bandwidths for each FR1 band in the combination. The fact that BCS4 and BCS5 contains all channel bandwidths for each FR1 band does not alter if a bandwidth is mandatory or optional for a given band. Bandwidths that are identified as optional in Table 5.3.5-1 of TS 38.101-1 [2] for a given release are still optional for UEs that support BCS4 or BCS5, where the bandwidths the UE supports for each band, the maximum bandwidth and/or minimum bandwidth for the band in the band combination are indicated in the UE capabilities. Note that the minimum bandwidth is indicated only in BCS5 and BCS5 shall not be indicated together with BCS4 for a CA configuration. For inter-band CA combinations including intra-band CA and with BCS4 or BCS5 in the following configuration tables, the Bandwidth Combination Sets for the FR1 intra-band CA are BCS4 or BCS5, respectively, and the Bandwidth Combination Sets for the FR2 intra-band CA are BCS0.

---Text omitted---

#### 5.5A.1.3 Inter-band CA configurations between FR1 and FR2 (four bands)

##### Table 5.5A.1.3-1a

**Table 5.5A.1.3-1a: 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** |
| --- | --- | --- | --- | --- | --- |
| 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 | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n257A  CA\_n3A-n28A  CA\_n3A-n257A  CA\_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 | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n257A/G  CA\_n3A-n28A  CA\_n3A-n257A/G  CA\_n28A-n257A/G | | n1 | 5, 10, 15, 20 | 0 |
| n3 | 5, 10, 15, 20, 25, 30 |
| n28 | 5, 10, 15, 20 |
| n257 | CA\_n257G |
| CA\_n1A-n3A-n28A-n257H | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n257A/G/H  CA\_n3A-n28A  CA\_n3A-n257A/G/H  CA\_n28A-n257A/G/H | | 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 | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n257A/G/H/I  CA\_n3A-n28A  CA\_n3A-n257A/G/H/I  CA\_n28A-n257A/G/H/I | | n1 | 5, 10,15, 20 | 0 |
| n3 | 5, 10, 15, 20, 25, 30 |
| n28 | 5, 10, 15, 20 |
| n257 | CA\_n257I |
| CA\_n1A-n3A-n41A-n257A | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n257A  CA\_n3A-n41A  CA\_n3A-n257A  CA\_n41A-n257A | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n3A-n41A-n257G | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n257A/G  CA\_n3A-n41A  CA\_n3A-n257A/G  CA\_n41A-n257A/G | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257G |  |
| CA\_n1A-n3A-n41A-n257H | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n257A/G/H  CA\_n3A-n41A  CA\_n3A-n257A/G/H  CA\_n41A-n257A/G/H | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257H |  |
| CA\_n1A-n3A-n41A-n257I | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n257A/G/H/I  CA\_n3A-n41A  CA\_n3A-n257A/G/H/I  CA\_n41A-n257A/G/H/I | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n1A-n3A-n77A-n257A | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n3A-n77A  CA\_n3A-n257A  CA\_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 | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n3A-n77A  CA\_n3A-n257A/G  CA\_n77A-n257A/G | | 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 | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n3A-n77A  CA\_n3A-n257A/G/H  CA\_n77A-n257A/G/H | | 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 | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n3A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | 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 | CA\_n1A-n3A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_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, 400 |
| CA\_n1A-n3A-n79A-n257G | CA\_n1A-n3A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n79A-n257A/G | | 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 | CA\_n1A-n3A  CA\_n1A-n79A  CA\_n1A-n257A/G/H CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n79A-n257A/G/H | | 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 | CA\_n1A-n3A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | 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-n8A-n78A-n257A | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n8A-n78A-n257D | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257D |  |
| CA\_n1A-n8A-n78A-n257E | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257E |  |
| CA\_n1A-n8A-n78A-n257F | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257F |  |
| CA\_n1A-n8A-n78A-n257G | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257G |  |
| CA\_n1A-n8A-n78A-n257H | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257H |  |
| CA\_n1A-n8A-n78A-n257I | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n1A-n8A-n78A-n257J | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257J |  |
| CA\_n1A-n8A-n78A-n257K | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257K |  |
| CA\_n1A-n8A-n78A-n257L | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257L |  |
| CA\_n1A-n8A-n78A-n257M | - | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n8 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257M |  |
| CA\_n1A-n28A-n41A-n257A | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A  CA\_n28A-n41A  CA\_n28A-n257A  CA\_n41A-n257A | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n28 | 5, 10 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n28A-n41A-n257G | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A/G  CA\_n28A-n41A  CA\_n28A-n257A/G  CA\_n41A-n257A/G | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n28 | 5, 10 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257G |  |
| CA\_n1A-n28A-n41A-n257H | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A/G/H  CA\_n28A-n41A  CA\_n28A-n257A/G/H  CA\_n41A-n257A/G/H | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n28 | 5, 10 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257H |  |
| CA\_n1A-n28A-n41A-n257I | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A/G/H/I  CA\_n28A-n41A  CA\_n28A-n257A/G/H/I  CA\_n41A-n257A/G/H/I | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n28 | 5, 10 |  |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n1A-n28A-n77A-n257A | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_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 | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n28A-n77A  CA\_n28A-n257A/G  CA\_n77A-n257A/G | | 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 | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n28A-n77A  CA\_n28A-n257A/G/H  CA\_n77A-n257A/G/H | | 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 | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n28A-n77A  CA\_n28A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | 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-n77(2A)-n257A | | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_n77A-n257A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n28A-n77(2A)-n257G | | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n28A-n77A  CA\_n28A-n257A/G  CA\_n77A-n257A/G | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n1A-n28A-n77(2A)-n257H | | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n28A-n77A  CA\_n28A-n257A/G/H  CA\_n77A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n1A-n28A-n77(2A)-n257I | | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n28A-n77A  CA\_n28A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257I |  |
| CA\_n1A-n28A-n79A-n257A | CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_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 | CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n79A-n257A/G | | 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 | CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n79A-n257A/G/H | | 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 | CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | n1 | 5, 10, 15, 20 | 0 |
| n28 | 5, 10, 15, 20 |
| n79 | 40, 50, 60, 80, 100 |
| n257 | CA\_n257I |
| CA\_n1A-n41A-n77A-n257A | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n77A-n257A | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n41A-n77A-n257G | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257G |  |
| CA\_n1A-n41A-n77A-n257H | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257H |  |
| CA\_n1A-n41A-n77A-n257I | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | n1 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n1A-n41A-n77(2A)-n257A | | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n77A-n257A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n41A-n77(2A)-n257G | | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n1A-n41A-n77(2A)-n257H | | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n1A-n41A-n77(2A)-n257I | | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257I |  |
| CA\_n1A-n41A-n79A-n257A | | CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n41A-n79A-n257G | | CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n79A-n257A/G | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n1A-n41A-n79A-n257H | | CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n79A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n1A-n41A-n79A-n257I | | CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | 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/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G  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/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H  CA\_n257G/H | | 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/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I  CA\_n257G/H/I | | 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-n77(2A)-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 | CA\_n77(2A) |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n77(2A)-n79A-n257G | | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n1A-n77(2A)-n79A-n257H | | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n1A-n77(2A)-n79A-n257I | | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | 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/G  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n79A-n257A/G  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/G/H  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n79A-n257A/G/H  CA\_n257G/H | | 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/G/H/I  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n79A-n257A/G/H/I  CA\_n257G/H/I | | 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\_n2A-n5A-n48A-n260A | CA\_n2A-n260A  CA\_n5A-n260A  CA\_n48A-n260A | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | 50, 100, 200, 400 |  |
| CA\_n2A-n5A-n48A-n260G | CA\_n2A-n260A/G  CA\_n5A-n260A/G  CA\_n48A-n260A/G | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260G |  |
| CA\_n2A-n5A-n48A-n260H | CA\_n2A-n260A/G/H  CA\_n5A-n260A/G/H  CA\_n48A-n260A/G/H | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260H |  |
| CA\_n2A-n5A-n48A-n260I | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260I |  |
| CA\_n2A-n5A-n48A-n260J | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260J |  |
| CA\_n2A-n5A-n48A-n260K | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260K |  |
| CA\_n2A-n5A-n48A-n260L | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260L |  |
| CA\_n2A-n5A-n48A-n260M | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260M |  |
| CA\_n2A-n5A-n48A-n261A | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n48A-n261A | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | 50, 100, 200, 400 |  |
| CA\_n2A-n5A-n48A-n261G | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n48A-n261A/G | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261G |  |
| CA\_n2A-n5A-n48A-n261H | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261H |  |
| CA\_n2A-n5A-n48A-n261I | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261I |  |
| CA\_n2A-n5A-n48A-n261J | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261J |  |
| CA\_n2A-n5A-n48A-n261K | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261K |  |
| CA\_n2A-n5A-n48A-n261L | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261L |  |
| CA\_n2A-n5A-n48A-n261M | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261M |  |
| CA\_n2A-n5A-n48A-n261(G-H) | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(G-H) |  |
| CA\_n2A-n5A-n48A-n261(2H) | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2H) |  |
| CA\_n2A-n5A-n48A-n261(A-G-H) | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-G-H) |  |
| CA\_n2A-n5A-n48A-n261(H-I) | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(H-I) |  |
| CA\_n2A-n5A-n48A-n261(A-G-I) | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-G-I) |  |
| CA\_n2A-n5A-n48A-n261(A-G) | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n48A-n261A/G | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-G) |  |
| CA\_n2A-n5A-n48A-n261(A-H) | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-H) |  |
| CA\_n2A-n5A-n48A-n261(A-I) | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-I) |  |
| CA\_n2A-n5A-n48A-n261(2A-G) | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n48A-n261A/G | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A-G) |  |
| CA\_n2A-n5A-n48A-n261(2A-H) | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A-H) |  |
| CA\_n2A-n5A-n48A-n261(2A-I) | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A-I) |  |
| CA\_n2A-n5A-n48A-n261(A-2G) | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n48A-n261A/G | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-2G) |  |
| CA\_n2A-n5A-n48A-n261(G-I) | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(G-I) |  |
| CA\_n2A-n5A-n48A-n261(2A) | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n48A-n261A | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A) |  |
| CA\_n2A-n5A-n48A-n261(3A) | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n48A-n261A | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(3A) |  |
| CA\_n2A-n5A-n48A-n261(2G) | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n48A-n261A/G | | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  |  | | n5 | 5, 10, 15, 20, 25 |  |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2G) |  |
| CA\_n2A-n5A-n66A-n260A | | CA\_n2A-n260A  CA\_n5A-n260A  CA\_n66A-n260A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | 50, 100, 200, 400 |  |
| CA\_n2A-n5A-n66A-n260G | | CA\_n2A-n260A/G  CA\_n5A-n260A/G  CA\_n66A-n260A/G | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | CA\_n260G |  |
| CA\_n2A-n5A-n66A-n260H | | CA\_n2A-n260A/G/H  CA\_n5A-n260A/G/H  CA\_n66A-n260A/G/H | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | CA\_n260H |  |
| CA\_n2A-n5A-n66A-n260I | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | CA\_n260I |  |
| CA\_n2A-n5A-n66A-n260J | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | CA\_n260J |  |
| CA\_n2A-n5A-n66A-n260K | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | CA\_n260K |  |
| CA\_n2A-n5A-n66A-n260L | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | CA\_n260L |  |
| CA\_n2A-n5A-n66A-n260M | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n260 | CA\_n260M |  |
| CA\_n2A-n5A-n66A-n261A | | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n66A-n261A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | 50, 100, 200, 400 |  |
| CA\_n2A-n5A-n66A-n261G | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261G |  |
| CA\_n2A-n5A-n66A-n261H | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261H |  |
| CA\_n2A-n5A-n66A-n261I | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261I |  |
| CA\_n2A-n5A-n66A-n261J | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261J |  |
| CA\_n2A-n5A-n66A-n261K | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261K |  |
| CA\_n2A-n5A-n66A-n261L | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261L |  |
| CA\_n2A-n5A-n66A-n261M | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261M |  |
| CA\_n2A-n5A-n66A-n261(A-G) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(A-G) |  |
| CA\_n2A-n5A-n66A-n261(2A) | | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n66A-n261A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(2A) |  |
| CA\_n2A-n5A-n66A-n261(3A) | | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n66A-n261A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(3A) |  |
| CA\_n2A-n5A-n66A-n261(2G) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(2G) |  |
| CA\_n2A-n5A-n66A-n261(A-H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(A-H) |  |
| CA\_n2A-n5A-n66A-n261(G-H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(G-H) |  |
| CA\_n2A-n5A-n66A-n261(2A-G) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(2A-G) |  |
| CA\_n2A-n5A-n66A-n261(2A-H) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(2A-H) |  |
| CA\_n2A-n5A-n66A-n261(A-2G) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(A-2G) |  |
| CA\_n2A-n5A-n66A-n261(A-G-H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(A-G-H) |  |
| CA\_n2A-n5A-n66A-n261(A-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(A-I) |  |
| CA\_n2A-n5A-n66A-n261(G-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(G-I) |  |
| CA\_n2A-n5A-n66A-n261(2H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(2H) |  |
| CA\_n2A-n5A-n66A-n261(2A-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(2A-I) |  |
| CA\_n2A-n5A-n66A-n261(A-G-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(A-G-I) |  |
| CA\_n2A-n5A-n66A-n261(H-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n261 | CA\_n261(H-I) |  |
| CA\_n2A-n5A-n77A-n260A | | CA\_n2A-n260A  CA\_n5A-n260A  CA\_n77A-n260A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | 50, 100, 200, 400 |  |
| CA\_n2A-n5A-n77A-n260G | | CA\_n2A-n260A/G  CA\_n5A-n260A/G  CA\_n77A-n260A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260G |  |
| CA\_n2A-n5A-n77A-n260H | | CA\_n2A-n260A/G/H  CA\_n5A-n260A/G/H  CA\_n77A-n260A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260H |  |
| CA\_n2A-n5A-n77A-n260I | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260I |  |
| CA\_n2A-n5A-n77A-n260J | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260J |  |
| CA\_n2A-n5A-n77A-n260K | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260K |  |
| CA\_n2A-n5A-n77A-n260L | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260L |  |
| CA\_n2A-n5A-n77A-n260M | | CA\_n2A-n260A/G/H/I  CA\_n5A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260M |  |
| CA\_n2A-n5A-n77A-n261A | | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n77A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | 50, 100, 200, 400 |  |
| CA\_n2A-n5A-n77A-n261G | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261G |  |
| CA\_n2A-n5A-n77A-n261H | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261H |  |
| CA\_n2A-n5A-n77A-n261I | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261I |  |
| CA\_n2A-n5A-n77A-n261J | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261J |  |
| CA\_n2A-n5A-n77A-n261K | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261K |  |
| CA\_n2A-n5A-n77A-n261L | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261L |  |
| CA\_n2A-n5A-n77A-n261M | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261M |  |
| CA\_n2A-n5A-n77A-n261(G-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(G-I) |  |
| CA\_n2A-n5A-n77A-n261(2H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2H) |  |
| CA\_n2A-n5A-n77A-n261(A-G-H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-G-H) |  |
| CA\_n2A-n5A-n77A-n261(H-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(H-I) |  |
| CA\_n2A-n5A-n77A-n261(A-G-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-G-I) |  |
| CA\_n2A-n5A-n77A-n261(A-G) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-G) |  |
| CA\_n2A-n5A-n77A-n261(A-H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-H) |  |
| CA\_n2A-n5A-n77A-n261(A-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-I) |  |
| CA\_n2A-n5A-n77A-n261(2A-H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A-H) |  |
| CA\_n2A-n5A-n77A-n261(2A-I) | | CA\_n2A-n261A/G/H/I  CA\_n5A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A-I) |  |
| CA\_n2A-n5A-n77A-n261(G-H) | | CA\_n2A-n261A/G/H  CA\_n5A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(G-H) |  |
| CA\_n2A-n5A-n77A-n261(2A) | | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n77A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A) |  |
| CA\_n2A-n5A-n77A-n261(3A) | | CA\_n2A-n261A  CA\_n5A-n261A  CA\_n77A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(3A) |  |
| CA\_n2A-n5A-n77A-n261(2G) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2G) |  |
| CA\_n2A-n5A-n77A-n261(A-2G) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-2G) |  |
| CA\_n2A-n5A-n77A-n261(2A-G) | | CA\_n2A-n261A/G  CA\_n5A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A-G) |  |
| CA\_n2A-n48A-n66A-n260A | | CA\_n2A-n260A  CA\_n48A-n260A  CA\_n66A-n260A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | 50, 100, 200, 400 |  |
| CA\_n2A-n48A-n66A-n260G | | CA\_n2A-n260A/G  CA\_n48A-n260A/G  CA\_n66A-n260A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n260G |  |
| CA\_n2A-n48A-n66A-n260H | | CA\_n2A-n260A/G/H  CA\_n48A-n260A/G/H  CA\_n66A-n260A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n260H |  |
| CA\_n2A-n48A-n66A-n260I | | CA\_n2A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n260I |  |
| CA\_n2A-n48A-n66A-n260J | | CA\_n2A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n260J |  |
| CA\_n2A-n48A-n66A-n260K | | CA\_n2A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n260K |  |
| CA\_n2A-n48A-n66A-n260L | | CA\_n2A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n260L |  |
| CA\_n2A-n48A-n66A-n260M | | CA\_n2A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n260M |  |
| CA\_n2A-n48A-n66A-n261A | | CA\_n2A-n261A  CA\_n66A-n261A  CA\_n48A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | 50, 100, 200, 400 |  |
| CA\_n2A-n48A-n66A-n261G | | CA\_n2A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n261G |  |
| CA\_n2A-n48A-n66A-n261H | | CA\_n2A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n260 | CA\_n261H |  |
| CA\_n2A-n48A-n66A-n261I | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261I |  |
| CA\_n2A-n48A-n66A-n261J | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261J |  |
| CA\_n2A-n48A-n66A-n261K | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261K |  |
| CA\_n2A-n48A-n66A-n261L | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261L |  |
| CA\_n2A-n48A-n66A-n261M | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261M |  |
| CA\_n2A-n48A-n66A-n261(G-H) | | CA\_n2A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(G-H) |  |
| CA\_n2A-n48A-n66A-n261(2H) | | CA\_n2A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(2H) |  |
| CA\_n2A-n48A-n66A-n261(A-G-H) | | CA\_n2A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(A-G-H) |  |
| CA\_n2A-n48A-n66A-n261(H-I) | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(H-I) |  |
| CA\_n2A-n48A-n66A-n261(A-G-I) | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(A-G-I) |  |
| CA\_n2A-n48A-n66A-n261(A-G) | | CA\_n2A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(A-G) |  |
| CA\_n2A-n48A-n66A-n261(A-H) | | CA\_n2A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(A-H) |  |
| CA\_n2A-n48A-n66A-n261(A-I) | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(A-I) |  |
| CA\_n2A-n48A-n66A-n261(2A-G) | | CA\_n2A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(2A-G) |  |
| CA\_n2A-n48A-n66A-n261(2A-H) | | CA\_n2A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(2A-H) |  |
| CA\_n2A-n48A-n66A-n261(2A-I) | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(2A-I) |  |
| CA\_n2A-n48A-n66A-n261(G-I) | | CA\_n2A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(G-I) |  |
| CA\_n2A-n48A-n66A-n261(2A) | | CA\_n2A-n261A  CA\_n48A-n261A  CA\_n66A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(2A) |  |
| CA\_n2A-n48A-n66A-n261(3A) | | CA\_n2A-n261A  CA\_n48A-n261A  CA\_n66A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(3A) |  |
| CA\_n2A-n48A-n66A-n261(2G) | | CA\_n2A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(2G) |  |
| CA\_n2A-n48A-n66A-n261(A-2G) | | CA\_n2A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n261 | CA\_n261(A-2G) |  |
| CA\_n2A-n66A-n77A-n260A | | CA\_n2A-n260A  CA\_n66A-n260A  CA\_n77A-n260A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | 50, 100, 200, 400 |  |
| CA\_n2A-n66A-n77A-n260G | | CA\_n2A-n260A/G  CA\_n66A-n260A/G  CA\_n77A-n260A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260G |  |
| CA\_n2A-n66A-n77A-n260H | | CA\_n2A-n260A/G/H  CA\_n66A-n260A/G/H  CA\_n77A-n260A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260H |  |
| CA\_n2A-n66A-n77A-n260I | | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260I |  |
| CA\_n2A-n66A-n77A-n260J | | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260J |  |
| CA\_n2A-n66A-n77A-n260K | | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260K |  |
| CA\_n2A-n66A-n77A-n260L | | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260L |  |
| CA\_n2A-n66A-n77A-n260M | | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n260 | CA\_n260M |  |
| CA\_n2A-n66A-n77A-n261A | | CA\_n2A-n261A  CA\_n66A-n261A  CA\_n77A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | 50, 100, 200, 400 |  |
| CA\_n2A-n66A-n77A-n261G | | CA\_n2A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261G |  |
| CA\_n2A-n66A-n77A-n261H | | CA\_n2A-n260A/G/H  CA\_n66A-n260A/G/H  CA\_n77A-n260A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261H |  |
| CA\_n2A-n66A-n77A-n261I | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261I |  |
| CA\_n2A-n66A-n77A-n261J | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261J |  |
| CA\_n2A-n66A-n77A-n261K | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261K |  |
| CA\_n2A-n66A-n77A-n261L | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261L |  |
| CA\_n2A-n66A-n77A-n261M | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261M |  |
| CA\_n2A-n66A-n77A-n261(G-I) | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(G-I) |  |
| CA\_n2A-n66A-n77A-n261(2H) | | CA\_n2A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2H) |  |
| CA\_n2A-n66A-n77A-n261(A-G-H) | | CA\_n2A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-G-H) |  |
| CA\_n2A-n66A-n77A-n261(H-I) | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(H-I) |  |
| CA\_n2A-n66A-n77A-n261(A-G-I) | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-G-I) |  |
| CA\_n2A-n66A-n77A-n261(A-G) | | CA\_n2A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-G) |  |
| CA\_n2A-n66A-n77A-n261(A-H) | | CA\_n2A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-H) |  |
| CA\_n2A-n66A-n77A-n261(A-I) | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-I) |  |
| CA\_n2A-n66A-n77A-n261(2A-G) | | CA\_n2A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A-G) |  |
| CA\_n2A-n66A-n77A-n261(2A-H) | | CA\_n2A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A-H) |  |
| CA\_n2A-n66A-n77A-n261(2A-I) | | CA\_n2A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A-I) |  |
| CA\_n2A-n66A-n77A-n261(G-H) | | CA\_n2A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(G-H) |  |
| CA\_n2A-n66A-n77A-n261(2A) | | CA\_n2A-n261A  CA\_n66A-n261A  CA\_n77A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2A) |  |
| CA\_n2A-n66A-n77A-n261(3A) | | CA\_n2A-n261A  CA\_n66A-n261A  CA\_n77A-n261A | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(3A) |  |
| CA\_n2A-n66A-n77A-n261(2G) | | CA\_n2A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(2G) |  |
| CA\_n2A-n66A-n77A-n261(A-2G) | | CA\_n2A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | n2 | 5, 10, 15, 20, 25, 30, 35 ,40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n261 | CA\_n261(A-2G) |  |

##### Table 5.5A.1.3-1b

**Table 5.5A.1.3-1b: 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** |
| --- | --- | --- | --- | --- | --- |
| CA\_n3A-n7A-n78A-n258A | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | 50, 100, 200, 400 |  |
| CA\_n3A-n7A-n78A-n258B | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258B |  |
| CA\_n3A-n7A-n78A-n258C | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258C |  |
| CA\_n3A-n7A-n78A-n258D | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258D |  |
| CA\_n3A-n7A-n78A-n258E | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258E |  |
| CA\_n3A-n7A-n78A-n258F | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258F |  |
| CA\_n3A-n7A-n78A-n258G | CA\_n3A-n258A/G  CA\_n7A-n258A/G  CA\_n78A-n258A/G  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258G |  |
| CA\_n3A-n7A-n78A-n258H | CA\_n3A-n258A/G/H  CA\_n7A-n258A/G/H  CA\_n78A-n258A/G/H  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258H |  |
| CA\_n3A-n7A-n78A-n258I | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258I |  |
| CA\_n3A-n7A-n78A-n258J | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258J |  |
| CA\_n3A-n7A-n78A-n258K | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258K |  |
| CA\_n3A-n7A-n78A-n258L | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258L |  |
| CA\_n3A-n7A-n78A-n258M | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258M |  |
| CA\_n3A-n7B-n78A-n258A | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | 50, 100, 200, 400 |  |
| CA\_n3A-n7B-n78A-n258B | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258B |  |
| CA\_n3A-n7B-n78A-n258C | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258C |  |
| CA\_n3A-n7B-n78A-n258D | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258D |  |
| CA\_n3A-n7B-n78A-n258E | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258E |  |
| CA\_n3A-n7B-n78A-n258F | CA\_n3A-n258A  CA\_n7A-n258A  CA\_n78A-n258A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258F |  |
| CA\_n3A-n7B-n78A-n258G | CA\_n3A-n258A/G  CA\_n7A-n258A/G  CA\_n78A-n258A/G  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258G |  |
| CA\_n3A-n7B-n78A-n258H | CA\_n3A-n258A/G/H  CA\_n7A-n258A/G/H  CA\_n78A-n258A/G/H  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258H |  |
| CA\_n3A-n7B-n78A-n258I | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258I |  |
| CA\_n3A-n7B-n78A-n258J | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258J |  |
| CA\_n3A-n7B-n78A-n258K | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258K |  |
| CA\_n3A-n7B-n78A-n258L | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258L |  |
| CA\_n3A-n7B-n78A-n258M | CA\_n3A-n258A/G/H/I  CA\_n7A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n7 | CA\_n7B |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258M |  |
| 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 | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A  CA\_n28A-n41A  CA\_n28A-n257A  CA\_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 | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A/G  CA\_n28A-n41A  CA\_n28A-n257A/G  CA\_n41A-n257A/G | | 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 | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A/G/H  CA\_n28A-n41A  CA\_n28A-n257A/G/H  CA\_n41A-n257A/G/H | | 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 | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A/G/H/I  CA\_n28A-n41A  CA\_n28A-n257A/G/H/I  CA\_n41A-n257A/G/H/I | | 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/G  CA\_n28A-n257A/G  CA\_n77A-n257A/G | | 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/G/H  CA\_n28A-n257A/G/H  CA\_n77A-n257A/G/H | | 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/G/H/I  CA\_n28A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | 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/G  CA\_n28A-n257A/G  CA\_n77A-n257A/G | | 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/G/H  CA\_n28A-n257A/G/H  CA\_n77A-n257A/G/H | | 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/G/H/I  CA\_n28A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | | n28 | 5, 10, 15, 20 |  |
|  |  | | n77 | CA\_n77(2A) |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n3A-n28A-n77(3A)-n257A | - | | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | | n28 | 5, 10, 15, 20 |  |
|  |  | | n77 | CA\_n77(3A) |  |
|  |  | | n257 | 50, 100, 200, 400 |  |
| CA\_n3A-n28A-n77(3A)-n257D | - | | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | | n28 | 5, 10, 15, 20 |  |
|  |  | | n77 | CA\_n77(3A) |  |
|  |  | | n257 | CA\_n257D |  |
| CA\_n3A-n28A-n77(3A)-n257G | - | | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | | n28 | 5, 10, 15, 20 |  |
|  |  | | n77 | CA\_n77(3A) |  |
|  |  | | n257 | CA\_n257G |  |
| CA\_n3A-n28A-n77(3A)-n257H | - | | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | | n28 | 5, 10, 15, 20 |  |
|  |  | | n77 | CA\_n77(3A) |  |
|  |  | | n257 | CA\_n257H |  |
| CA\_n3A-n28A-n77(3A)-n257I | - | | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | | n28 | 5, 10, 15, 20 |  |
|  |  | | n77 | CA\_n77(3A) |  |
|  |  | | 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/G  CA\_n28A-n257A/G  CA\_n78A-n257A/G | | 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/G/H  CA\_n28A-n257A/G/H  CA\_n78A-n257A/G/H | | 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/G/H/I  CA\_n28A-n257A/G/H/I  CA\_n78A-n257A/G/H/I | | 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/G  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n79A-n257A/G | | 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/G/H  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n79A-n257A/G/H | | 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/G/H/I  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | 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 | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_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 | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | | 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 | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | | 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 | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | 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-n41A-n77(2A)-n257A | | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n77A-n257A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n3A-n41A-n77(2A)-n257G | | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n3A-n41A-n77(2A)-n257H | | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n3A-n41A-n77(2A)-n257I | | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n257 | CA\_n257I |  |
| CA\_n3A-n41A-n79A-n257A | | CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n79A-n257A | n3 | 10, 15, 20, 25, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n3A-n41A-n79A-n257G | | CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n79A-n257A/G | n3 | 10, 15, 20, 25, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n3A-n41A-n79A-n257H | | CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n79A-n257A/G/H | n3 | 10, 15, 20, 25, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n3A-n41A-n79A-n257I | | CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n3 | 10, 15, 20, 25, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 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/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | | 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/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | | 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/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | 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/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | | 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/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | | 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/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | | n77 | CA\_n77(2A) |  |
|  |  | | n79 | 40, 50, 60, 80, 100 |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n5A-n48A-n66A-n260A | CA\_n5A-n260A  CA\_n48A-n260A  CA\_n66A-n260A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | 50, 100, 200, 400 |  |
| CA\_n5A-n48A-n66A-n260G | CA\_n5A-n260A/G  CA\_n48A-n260A/G  CA\_n66A-n260A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | CA\_n260G |  |
| CA\_n5A-n48A-n66A-n260H | CA\_n5A-n260A/G/H  CA\_n48A-n260A/G/H  CA\_n66A-n260A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | CA\_n260H |  |
| CA\_n5A-n48A-n66A-n260I | CA\_n5A-n260A/G/H/I CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | CA\_n260I |  |
| CA\_n5A-n48A-n66A-n260J | CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | CA\_n260J |  |
| CA\_n5A-n48A-n66A-n260K | CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | CA\_n260K |  |
| CA\_n5A-n48A-n66A-n260L | CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | CA\_n260L |  |
| CA\_n5A-n48A-n66A-n260M | CA\_n5A-n260A/G/H/I  CA\_n48A-n260A/G/H/I  CA\_n66A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n260 | CA\_n260M |  |
| CA\_n5A-n48A-n66A-n261A | CA\_n5A-n261A  CA\_n48A-n261A  CA\_n66A-n261A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | 50, 100, 200, 400 |  |
| CA\_n5A-n48A-n66A-n261G | CA\_n5A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261G |  |
| CA\_n5A-n48A-n66A-n261H | CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261H |  |
| CA\_n5A-n48A-n66A-n261I | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261I |  |
| CA\_n5A-n48A-n66A-n261J | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261J |  |
| CA\_n5A-n48A-n66A-n261K | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261K |  |
| CA\_n5A-n48A-n66A-n261L | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261L |  |
| CA\_n5A-n48A-n66A-n261M | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261M |  |
| CA\_n5A-n48A-n66A-n261(A-G) | CA\_n5A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(A-G) |  |
| CA\_n5A-n48A-n66A-n261(A-H) | CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(A-H) |  |
| CA\_n5A-n48A-n66A-n261(A-I) | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(A-I) |  |
| CA\_n5A-n48A-n66A-n261(2A-G) | CA\_n5A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(2A-G) |  |
| CA\_n5A-n48A-n66A-n261(2A-H) | CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(2A-H) |  |
| CA\_n5A-n48A-n66A-n261(2A-I) | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(2A-I) |  |
| CA\_n5A-n48A-n66A-n261(G-I) | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(G-I) |  |
| CA\_n5A-n48A-n66A-n261(2A) | CA\_n5A-n261A  CA\_n48A-n261A  CA\_n66A-n261A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(2A) |  |
| CA\_n5A-n48A-n66A-n261(3A) | CA\_n5A-n261A  CA\_n48A-n261A  CA\_n66A-n261A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(3A) |  |
| CA\_n5A-n48A-n66A-n261(2G) | CA\_n5A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(2G) |  |
| CA\_n5A-n48A-n66A-n261(A-2G) | CA\_n5A-n261A/G  CA\_n48A-n261A/G  CA\_n66A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(A-2G) |  |
| CA\_n5A-n48A-n66A-n261(G-H) | CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(G-H) |  |
| CA\_n5A-n48A-n66A-n261(2H) | CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(2H) |  |
| CA\_n5A-n48A-n66A-n261(A-G-H) | CA\_n5A-n261A/G/H  CA\_n48A-n261A/G/H  CA\_n66A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(A-G-H) |  |
| CA\_n5A-n48A-n66A-n261(H-I) | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(H-I) |  |
| CA\_n5A-n48A-n66A-n261(A-G-I) | CA\_n5A-n261A/G/H/I  CA\_n48A-n261A/G/H/I  CA\_n66A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n261 | CA\_n261(A-G-I) |  |
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|  |  |
| CA\_n5A-n66A-n77A-n260A | CA\_n5A-n260A  CA\_n66A-n260A  CA\_n77A-n260A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | 50, 100, 200, 400 |  |
| CA\_n5A-n66A-n77A-n260G | CA\_n2A-n260A/G  CA\_n66A-n260A/G  CA\_n77A-n260A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260G |  |
| CA\_n5A-n66A-n77A-n260H | CA\_n2A-n260A/G/H  CA\_n66A-n260A/G/H  CA\_n77A-n260A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260H |  |
| CA\_n5A-n66A-n77A-n260I | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260I |  |
| CA\_n5A-n66A-n77A-n260J | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260J |  |
| CA\_n5A-n66A-n77A-n260K | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260K |  |
| CA\_n5A-n66A-n77A-n260L | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260L |  |
| CA\_n5A-n66A-n77A-n260M | CA\_n2A-n260A/G/H/I  CA\_n66A-n260A/G/H/I  CA\_n77A-n260A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n260 | CA\_n260M |  |
| CA\_n5A-n66A-n77A-n261A | CA\_n5A-n261A  CA\_n66A-n261A  CA\_n77A-n261A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | 50, 100, 200, 400 |  |
| CA\_n5A-n66A-n77A-n261G | CA\_n5A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261G |  |
| CA\_n5A-n66A-n77A-n261H | CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261H |  |
| CA\_n5A-n66A-n77A-n261I | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261I |  |
| CA\_n5A-n66A-n77A-n261J | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261J |  |
| CA\_n5A-n66A-n77A-n261K | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261K |  |
| CA\_n5A-n66A-n77A-n261L | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261L |  |
| CA\_n5A-n66A-n77A-n261M | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261M |  |
| CA\_n5A-n66A-n77A-n261(G-H) | CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(G-H) |  |
| CA\_n5A-n66A-n77A-n261(2H) | CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2H) |  |
| CA\_n5A-n66A-n77A-n261(A-G-H) | CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-G-H) |  |
| CA\_n5A-n66A-n77A-n261(H-I) | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(H-I) |  |
| CA\_n5A-n66A-n77A-n261(A-G-I) | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-G-I) |  |
| CA\_n5A-n66A-n77A-n261(A-G) | CA\_n5A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-G) |  |
| CA\_n5A-n66A-n77A-n261(A-H) | CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-H) |  |
| CA\_n5A-n66A-n77A-n261(A-I) | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-I) |  |
| CA\_n5A-n66A-n77A-n261(A-2G) | CA\_n5A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(A-2G) |  |
| CA\_n5A-n66A-n77A-n261(2A-G) | CA\_n5A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A-G) |  |
| CA\_n5A-n66A-n77A-n261(2A-H) | CA\_n5A-n261A/G/H  CA\_n66A-n261A/G/H  CA\_n77A-n261A/G/H | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A-H) |  |
| CA\_n5A-n66A-n77A-n261(2A-I) | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A-I) |  |
| CA\_n5A-n66A-n77A-n261(G-I) | CA\_n5A-n261A/G/H/I  CA\_n66A-n261A/G/H/I  CA\_n77A-n261A/G/H/I | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(G-I) |  |
| CA\_n5A-n66A-n77A-n261(2A) | CA\_n5A-n261A  CA\_n66A-n261A  CA\_n77A-n261A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2A) |  |
| CA\_n5A-n66A-n77A-n261(3A) | CA\_n5A-n261A  CA\_n66A-n261A  CA\_n77A-n261A | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(3A) |  |
| CA\_n5A-n66A-n77A-n261(2G) | CA\_n5A-n261A/G  CA\_n66A-n261A/G  CA\_n77A-n261A/G | | n5 | 5, 10, 15, 20, 25 | 0 |
|  |  | | n66 | 5, 10, 15, 20, 25, 30, 35, 40, 45 |  |
|  |  | | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n261 | CA\_n261(2G) |  |
| CA\_n7A-n26A-n78A-n258A | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A  CA\_n26A-n78A  CA\_n26A-n258A  CA\_n78A-n258A | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | 50, 100, 200, 400 |  |
| CA\_n7A-n26A-n78A-n258B | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/B  CA\_n26A-n78A  CA\_n26A-n258A/B  CA\_n78A-n258A/B CA\_n258B | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258B |  |
| CA\_n7A-n26A-n78A-n258C | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/B/C  CA\_n26A-n78A  CA\_n26A-n258A/B/C  CA\_n78A-n258A/B/C  CA\_n258B/C | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258C |  |
| CA\_n7A-n26A-n78A-n258D | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/D  CA\_n26A-n78A  CA\_n26A-n258A/D  CA\_n78A-n258A/D CA\_n258D | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258D |  |
| CA\_n7A-n26A-n78A-n258E | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/D/E  CA\_n26A-n78A  CA\_n26A-n258A/D/E  CA\_n78A-n258A/D/E  CA\_n258D/E | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258E |  |
| CA\_n7A-n26A-n78A-n258F | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/D/E/F  CA\_n26A-n78A  CA\_n26A-n258A/D/E/F  CA\_n78A-n258A/D/E/F  CA\_n258D/E/F | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258F |  |
| CA\_n7A-n26A-n78A-n258G | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G  CA\_n26A-n78A  CA\_n26A-n258A/G  CA\_n78A-n258A/G  CA\_n258G | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258G |  |
| CA\_n7A-n26A-n78A-n258H | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H  CA\_n26A-n78A  CA\_n26A-n258A/G/H  CA\_n78A-n258A/G/H  CA\_n258G/H | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258H |  |
| CA\_n7A-n26A-n78A-n258I | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258I |  |
| CA\_n7A-n26A-n78A-n258J | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258J |  |
| CA\_n7A-n26A-n78A-n258K | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258K |  |
| CA\_n7A-n26A-n78A-n258L | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258L |  |
| CA\_n7A-n26A-n78A-n258M | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258M |  |
| CA\_n7A-n26A-n78A-n258R2 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2  CA\_n26A-n78A  CA\_n26A-n258A/R2  CA\_n78A-n258A/R2  CA\_n258R2 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R2 |  |
| CA\_n7A-n26A-n78A-n258R3 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3  CA\_n78A-n258A/R2/R3  CA\_n258R2/R3 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R3 |  |
| CA\_n7A-n26A-n78A-n258R4 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R4 |  |
| CA\_n7A-n26A-n78A-n258R5 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R5 |  |
| CA\_n7A-n26A-n78A-n258R6 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R6 |  |
| CA\_n7A-n26A-n78A-n258R7 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R7 |  |
| CA\_n7A-n26A-n78A-n258R8 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R8 |  |
| CA\_n7A-n26A-n78A-n258R9 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R9 |  |
| CA\_n7A-n26A-n78A-n258R10 | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R10 |  |
| CA\_n7B-n26A-n78A-n258A | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A  CA\_n26A-n78A  CA\_n26A-n258A  CA\_n78A-n258A | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | 50, 100, 200, 400 |  |
| CA\_n7B-n26A-n78A-n258B | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/B  CA\_n26A-n78A  CA\_n26A-n258A/B  CA\_n78A-n258A/B  CA\_n258B | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258B |  |
| CA\_n7B-n26A-n78A-n258C | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/B/C  CA\_n26A-n78A  CA\_n26A-n258A/B/C  CA\_n78A-n258A/B/C  CA\_n258B/C | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258C |  |
| CA\_n7B-n26A-n78A-n258D | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/D  CA\_n26A-n78A  CA\_n26A-n258A/D  CA\_n78A-n258A/D  CA\_n258D | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258D |  |
| CA\_n7B-n26A-n78A-n258E | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/D/E  CA\_n26A-n78A  CA\_n26A-n258A/D/E  CA\_n78A-n258A/D/E  CA\_n258D/E | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258E |  |
| CA\_n7B-n26A-n78A-n258F | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/D/E/F  CA\_n26A-n78A  CA\_n26A-n258A/D/E/F  CA\_n78A-n258A/D/E/F  CA\_n258D/E/F | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258F |  |
| CA\_n7B-n26A-n78A-n258G | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G  CA\_n26A-n78A  CA\_n26A-n258A/G  CA\_n78A-n258A/G  CA\_n258G | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258G |  |
| CA\_n7B-n26A-n78A-n258H | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H  CA\_n26A-n78A  CA\_n26A-n258A/G/H  CA\_n78A-n258A/G/H  CA\_n258G/H | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258H |  |
| CA\_n7B-n26A-n78A-n258I | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258I |  |
| CA\_n7B-n26A-n78A-n258J | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258J |  |
| CA\_n7B-n26A-n78A-n258K | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258K |  |
| CA\_n7B-n26A-n78A-n258L | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258L |  |
| CA\_n7B-n26A-n78A-n258M | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/G/H/I  CA\_n26A-n78A  CA\_n26A-n258A/G/H/I  CA\_n78A-n258A/G/H/I  CA\_n258G/H/I | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258M |  |
| CA\_n7B-n26A-n78A-n258R2 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2  CA\_n26A-n78A  CA\_n26A-n258A/R2  CA\_n78A-n258A/R2  CA\_n258R2 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R2 |  |
| CA\_n7B-n26A-n78A-n258R3 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3  CA\_n78A-n258A/R2/R3  CA\_n258R2/R3 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R3 |  |
| CA\_n7B-n26A-n78A-n258R4 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R4 |  |
| CA\_n7B-n26A-n78A-n258R5 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R5 |  |
| CA\_n7B-n26A-n78A-n258R6 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R6 |  |
| CA\_n7B-n26A-n78A-n258R7 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R7 |  |
| CA\_n7B-n26A-n78A-n258R8 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R8 |  |
| CA\_n7B-n26A-n78A-n258R9 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R9 |  |
| CA\_n7B-n26A-n78A-n258R10 | CA\_n7B  CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7A-n258A/R2/R3/R4  CA\_n26A-n78A  CA\_n26A-n258A/R2/R3/R4  CA\_n78A-n258A/R2/R3/R4  CA\_n258R2/R3/R4 | | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | | n26 | 5, 10, 15, 20 |  |
|  |  | | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | | n258 | CA\_n258R10 |  |
| CA\_n28A-n41A-n77A-n257A | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_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 | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | | 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-n41A-n77A-n257H | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | | 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\_n257H |  |
| CA\_n28A-n41A-n77A-n257I | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | 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\_n257I |  |
| CA\_n28A-n41A-n77(2A)-n257A | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n77A-n257A | | n28 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | CA\_n77(2A) |  |
|  |  | | n257 | 50, 100, 200, 400 |  |
| CA\_n28A-n41A-n77(2A)-n257G | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | | n28 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | CA\_n77(2A) |  |
|  |  | | n257 | CA\_n257G |  |
| CA\_n28A-n41A-n77(2A)-n257H | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | | n28 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | CA\_n77(2A) |  |
|  |  | | n257 | CA\_n257H |  |
| CA\_n28A-n41A-n77(2A)-n257I | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | | n28 | 5, 10, 15, 20 | 0 |
|  |  | | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | | n77 | CA\_n77(2A) |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n28A-n41A-n79A-n257A | | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n79A-n257A | n28 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n28A-n41A-n79A-n257G | | CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n79A-n257A/G | n28 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n28A-n41A-n79A-n257H | | CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n79A-n257A/G/H | n28 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n28A-n41A-n79A-n257I | | CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n28 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
| 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/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | | 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/H  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | | 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/H/I  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | 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/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | | 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/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | | 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/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | n28 | 5, 10, 15, 20 | 0 |
|  |  | | n77 | CA\_n77(2A) |  |
|  |  | | n79 | 40, 50, 80, 100 |  |
|  |  | | n257 | CA\_n257I |  |
| CA\_n28A-n78A-n79A-n257A | CA\_n28A-n78A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n78A-n79A  CA\_n78A-n257A  CA\_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\_n28A-n78A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n79A-n257A/G | | 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\_n28A-n78A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n79A-n257A/G/H | | 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\_n28A-n78A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | | 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 |  |
| CA\_n41A-n77A-n79A-n257A | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n41A-n77A-n79A-n257G | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n41A-n77A-n79A-n257H | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n41A-n77A-n79A-n257I | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
| CA\_n41A-n77(2A)-n79A-n257A | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
| CA\_n41A-n77(2A)-n79A-n257G | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
| CA\_n41A-n77(2A)-n79A-n257H | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
| CA\_n41A-n77(2A)-n79A-n257I | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | CA\_n77(2A) |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
| CA\_n77A-n79A-n257A-n259A | | CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A  CA\_n79A-n257A  CA\_n79A-n259A | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n77A-n79A-n257A-n259G | | CA\_n259G  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A/G  CA\_n79A-n257A  CA\_n79A-n259A/G | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n77A-n79A-n257A-n259H | | CA\_n259G/H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A/G/H  CA\_n79A-n257A  CA\_n79A-n259A/G/H | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n77A-n79A-n257A-n259I | | CA\_n259G/H/I  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A/G/H/I  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n77A-n79A-n257A-n259J | | CA\_n259G/H/I/J  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A/G/H/I/J  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n77A-n79A-n257A-n259K | | CA\_n259G/H/I/J/K  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A/G/H/I/J/K  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J/K | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n77A-n79A-n257A-n259L | | CA\_n259G/H/I/J/K/L  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A/G/H/I/J/K/L  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J/K/L | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n77A-n79A-n257A-n259M | | CA\_n259G/H/I/J/K/L/M  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J/K/L/M | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259M |  |
| CA\_n77A-n79A-n257G-n259A | | CA\_n257G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A  CA\_n79A-n257A/G  CA\_n79A-n259A | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n77A-n79A-n257G-n259G | | CA\_n257G  CA\_n259G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A/G  CA\_n79A-n257A/G  CA\_n79A-n259A/G | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n77A-n79A-n257G-n259H | | CA\_n257G  CA\_n259G/H  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A/G/H  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n77A-n79A-n257G-n259I | | CA\_n257G  CA\_n259G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A/G/H/I  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n77A-n79A-n257G-n259J | | CA\_n257G  CA\_n259G/H/I/J  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A/G/H/I/J  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n77A-n79A-n257G-n259K | | CA\_n257G  CA\_n259G/H/I/J/K  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A/G/H/I/J/K  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J/K | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n77A-n79A-n257G-n259L | | CA\_n257G  CA\_n259G/H/I/J/K/L  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A/G/H/I/J/K/L  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J/K/L | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n77A-n79A-n257G-n259M | | CA\_n257G  CA\_n259G/H/I/J/K/L/M  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n77A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J/K/L/M | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259M |  |
| CA\_n77A-n79A-n257H-n259A | | CA\_n257G/H  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n77A-n257G/H  CA\_n77A-n259A  CA\_n79A-n257A  CA\_n79A-n257G/H  CA\_n79A-n259A | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n77A-n79A-n257H-n259G | | CA\_n257G/H  CA\_n259G  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n77A-n259A/G  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n77A-n79A-n257H-n259H | | CA\_n257G/H  CA\_n259G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n77A-n259A/G/H  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n77A-n79A-n257H-n259I | | CA\_n257G/H  CA\_n259G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n77A-n259A/G/H/I  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n77A-n79A-n257H-n259J | | CA\_n257G/H  CA\_n259G/H/I/J  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n77A-n259A/G/H/I/J  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n77A-n79A-n257H-n259K | | CA\_n257G/H  CA\_n259G/H/I/J/K  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n77A-n259A/G/H/I/J/K  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J/K | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n77A-n79A-n257H-n259L | | CA\_n257G/H  CA\_n259G/H/I/J/K/L  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n77A-n259A/G/H/I/J/K/L  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J/K/L | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n77A-n79A-n257H-n259M | | CA\_n257G/H  CA\_n259G/H/I/J/K/L/M  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n77A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J/K/L/M | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259M |  |
| CA\_n77A-n79A-n257I-n259A | | CA\_n257G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n77A-n79A-n257I-n259G | | CA\_n257G/H/I  CA\_n259G  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A/G  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n77A-n79A-n257I-n259H | | CA\_n257G/H/I  CA\_n259G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A/G/H  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n77A-n79A-n257I-n259I | | CA\_n257G/H/I  CA\_n259G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A/G/H/I  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n77A-n79A-n257I-n259J | | CA\_n257G/H/I  CA\_n259G/H/I/J  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A/G/H/I/J  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n77A-n79A-n257I-n259K | | CA\_n257G/H/I  CA\_n259G/H/I/J/K  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A/G/H/I/J/K  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J/K | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n77A-n79A-n257I-n259L | | CA\_n257G/H/I  CA\_n259G/H/I/J/K/L  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A/G/H/I/J/K/L  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J/K/L | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n77A-n79A-n257I-n259M | | CA\_n257G/H/I  CA\_n259G/H/I/J/K/L/M  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n77A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J/K/L/M | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259M |  |
| CA\_n78A-n79A-n257A-n259A | | CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A  CA\_n79A-n257A  CA\_n79A-n259A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n78A-n79A-n257A-n259G | | CA\_n259G  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A/G  CA\_n79A-n257A  CA\_n79A-n259A/G | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n78A-n79A-n257A-n259H | | CA\_n259G/H  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A/G/H  CA\_n79A-n257A  CA\_n79A-n259A/G/H | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n78A-n79A-n257A-n259I | | CA\_n259G/H/I  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A/G/H/I  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n78A-n79A-n257A-n259J | | CA\_n259G/H/I/J  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A/G/H/I/J  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n78A-n79A-n257A-n259K | | CA\_n259G/H/I/J/K  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A/G/H/I/J/K  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J/K | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n78A-n79A-n257A-n259L | | CA\_n259G/H/I/J/K/L  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A/G/H/I/J/K/L  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J/K/L | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n78A-n79A-n257A-n259M | | CA\_n259G/H/I/J/K/L/M  CA\_n78A-n79A  CA\_n78A-n257A  CA\_n78A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A  CA\_n79A-n259A/G/H/I/J/K/L/M | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | 50, 100, 200, 400 |  |
|  | |  | n259 | CA\_n259M |  |
| CA\_n78A-n79A-n257G-n259A | | CA\_n257G  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A  CA\_n79A-n257A/G  CA\_n79A-n259A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n78A-n79A-n257G-n259G | | CA\_n257G  CA\_n259G  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A/G  CA\_n79A-n257A/G  CA\_n79A-n259A/G | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n78A-n79A-n257G-n259H | | CA\_n257G  CA\_n259G/H  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A/G/H  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n78A-n79A-n257G-n259I | | CA\_n257G  CA\_n259G/H/I  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A/G/H/I  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n78A-n79A-n257G-n259J | | CA\_n257G  CA\_n259G/H/I/J  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A/G/H/I/J  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n78A-n79A-n257G-n259K | | CA\_n257G  CA\_n259G/H/I/J/K  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A/G/H/I/J/K  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J/K | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n78A-n79A-n257G-n259L | | CA\_n257G  CA\_n259G/H/I/J/K/L  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A/G/H/I/J/K/L  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J/K/L | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n78A-n79A-n257G-n259M | | CA\_n257G  CA\_n259G/H/I/J/K/L/M  CA\_n78A-n79A  CA\_n78A-n257A/G  CA\_n78A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A/G  CA\_n79A-n259A/G/H/I/J/K/L/M | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257G |  |
|  | |  | n259 | CA\_n259M |  |
| CA\_n78A-n79A-n257H-n259A | | CA\_n257G/H  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A  CA\_n79A-n257A/G/H  CA\_n79A-n259A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n78A-n79A-n257H-n259G | | CA\_n257G/H  CA\_n259G  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A/G  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n78A-n79A-n257H-n259H | | CA\_n257G/H  CA\_n259G/H  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A/G/H  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n78A-n79A-n257H-n259I | | CA\_n257G/H  CA\_n259G/H/I  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A/G/H/I  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n78A-n79A-n257H-n259J | | CA\_n257G/H  CA\_n259G/H/I/J  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A/G/H/I/J  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n78A-n79A-n257H-n259K | | CA\_n257G/H  CA\_n259G/H/I/J/K  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A/G/H/I/J/K  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J/K | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n78A-n79A-n257H-n259L | | CA\_n257G/H  CA\_n259G/H/I/J/K/L  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A/G/H/I/J/K/L  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J/K/L | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n78A-n79A-n257H-n259M | | CA\_n257G/H  CA\_n259G/H/I/J/K/L/M  CA\_n78A-n79A  CA\_n78A-n257A/G/H  CA\_n78A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A/G/H  CA\_n79A-n259A/G/H/I/J/K/L/M | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257H |  |
|  | |  | n259 | CA\_n259M |  |
| CA\_n78A-n79A-n257I-n259A | | CA\_n257G/H/I  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | 50, 100, 200, 400 |  |
| CA\_n78A-n79A-n257I-n259G | | CA\_n257G/H/I  CA\_n259G  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A/G  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259G |  |
| CA\_n78A-n79A-n257I-n259H | | CA\_n257G/H/I  CA\_n259G/H  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A/G/H  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259H |  |
| CA\_n78A-n79A-n257I-n259I | | CA\_n257G/H/I  CA\_n259G/H/I  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A/G/H/I  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259I |  |
| CA\_n78A-n79A-n257I-n259J | | CA\_n257G/H/I  CA\_n259G/H/I/J  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A/G/H/I/J  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259J |  |
| CA\_n78A-n79A-n257I-n259K | | CA\_n257G/H/I  CA\_n259G/H/I/J/K  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A/G/H/I/J/K  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J/K | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259K |  |
| CA\_n78A-n79A-n257I-n259L | | CA\_n257G/H/I  CA\_n259G/H/I/J/K/L  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A/G/H/I/J/K/L  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J/K/L | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259L |  |
| CA\_n78A-n79A-n257I-n259M | | CA\_n257G/H/I  CA\_n259G/H/I/J/K/L/M  CA\_n78A-n79A  CA\_n78A-n257A/G/H/I  CA\_n78A-n259A/G/H/I/J/K/L/M  CA\_n79A-n257A/G/H/I  CA\_n79A-n259A/G/H/I/J/K/L/M | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n257 | CA\_n257I |  |
|  | |  | n259 | CA\_n259M |  |

The following notes are applied to the above tables.

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.

NOTE 3: The delimiter “/” is only used in the uplink configurations for the sake of simplicity. For example, CA\_nxA-nyA/B/C denotes CA\_nxA-nyA, CA\_nxA-nyB and CA\_nxA-nyC, where nx and ny are two NR bands, ny is a FR2 band and A, B and C are the corresponding bandwidth classes respectively.

#### 5.5A.1.4 Inter-band CA configurations between FR1 and FR2 (five bands)

**Table 5.5A.1.4-1: Inter-band CA configurations and bandwidth combination sets between FR1 and FR2 (five bands)**

| **NR CA configuration** | **Uplink configuration** | **NR Band** | **Channel bandwidth (MHz) (NOTE 1)** | **Bandwidth combination set** |
| --- | --- | --- | --- | --- |
| CA\_n1A-n3A-n8A-n77A-n257A | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n3A-n8A-n77A-n257G | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | CA\_n257G |  |
| CA\_n1A-n3A-n8A-n77A-n257H | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | CA\_n257H |  |
| CA\_n1A-n3A-n8A-n77A-n257I | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | CA\_n257I |  |
| CA\_n1A-n3A-n8A-n77A-n257J | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | CA\_n257J |  |
| CA\_n1A-n3A-n8A-n77A-n257K | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | CA\_n257K |  |
| CA\_n1A-n3A-n8A-n77A-n257L | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | CA\_n257L |  |
| CA\_n1A-n3A-n8A-n77A-n257M | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n257 | CA\_n257M |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257A | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | 50, 100, 200, 400 |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257G | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | CA\_n257G |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257H | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | CA\_n257H |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257I | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | CA\_n257I |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257J | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | CA\_n257J |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257K | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | CA\_n257K |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257L | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | CA\_n257L |  |
| CA\_n1A-n3A-n8A-n77(2A)-n257M | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n257 | CA\_n257M |  |
| CA\_n1A-n3A-n28A-n41A-n257A | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A  CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A  CA\_n28A-n41A  CA\_n28A-n257A  CA\_n41A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n3A-n28A-n41A-n257G | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A/G  CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A/G  CA\_n28A-n41A  CA\_n28A-n257A/G  CA\_n41A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n3A-n28A-n41A-n257H | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A/G/H  CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A/G/H  CA\_n28A-n41A  CA\_n28A-n257A/G/H  CA\_n41A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n3A-n28A-n41A-n257I | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n257A/G/H/I  CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n257A/G/H/I  CA\_n28A-n41A  CA\_n28A-n257A/G/H/I  CA\_n41A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n1A-n3A-n28A-n77A-n257A | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n257A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_n77A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n3A-n28A-n77A-n257G | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n257A/G  CA\_n28A-n77A  CA\_n28A-n257A/G  CA\_n77A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n3A-n28A-n77A-n257H | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n257A/G/H  CA\_n28A-n77A  CA\_n28A-n257A/G/H  CA\_n77A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n3A-n28A-n77A-n257I | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n257A/G/H/I  CA\_n28A-n77A  CA\_n28A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | n28 | 5, 10 |  | |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n1A-n3A-n28A-n79A-n257A | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n3A-n28A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n3A-n28A-n79A-n257G | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n3A-n28A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n3A-n28A-n79A-n257H | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n3A-n28A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n3A-n28A-n79A-n257I | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n3A-n28A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n1A-n3A-n41A-n77A-n257A | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n77A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | 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\_n1A-n3A-n41A-n77A-n257G | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | 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\_n1A-n3A-n41A-n77A-n257H | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | 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\_n1A-n3A-n41A-n77A-n257I | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20 |  | |
|  |  | 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\_n1A-n3A-n41A-n79A-n257A | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80,100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n3A-n41A-n79A-n257G | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n79A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80,100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n3A-n41A-n79A-n257H | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n79A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80,100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n3A-n41A-n79A-n257I | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80,100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n1A-n3A-n77A-n79A-n257A | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n3A-n77A-n79A-n257G | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n3A-n77A-n79A-n257H | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n3A-n77A-n79A-n257I | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  | |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n1A-n28A-n41A-n77A-n257A | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n77A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10 |  | |
|  |  | 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\_n1A-n28A-n41A-n77A-n257G | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10 |  | |
|  |  | 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\_n1A-n28A-n41A-n77A-n257H | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10 |  | |
|  |  | 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\_n1A-n28A-n41A-n77A-n257I | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n257A/G/H/I  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I CA\_n77A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10 |  | |
|  |  | 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\_n1A-n28A-n41A-n79A-n257A | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n28A-n41A-n79A-n257G | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n79A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n28A-n41A-n79A-n257H | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n79A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n28A-n41A-n79A-n257I | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n1A-n28A-n77A-n79A-n257A | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n28A-n77A-n79A-n257G | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n28A-n77A-n79A-n257H | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n28A-n77A-n79A-n257I | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n28 | 5, 10, 15, 20 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n1A-n41A-n77A-n79A-n257A | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | 50, 100, 200, 400 |  | |
| CA\_n1A-n41A-n77A-n79A-n257G | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257G |  | |
| CA\_n1A-n41A-n77A-n79A-n257H | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257H |  | |
| CA\_n1A-n41A-n77A-n79A-n257I | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n1A-n79A  CA\_n1A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n1 | 5, 10, 15, 20 | 0 | |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  | |
|  |  | n79 | 40, 50, 60, 80, 100 |  | |
|  |  | n257 | CA\_n257I |  | |
| CA\_n3A-n28A-n41A-n77A-n257A | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A  CA\_n41A-n77A  CA\_n41A-n257A  CA\_n77A-n257A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 | |
|  |  | n28 | 5, 10, 15, 20, 30 |  | |
|  |  | 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-n28A-n41A-n77A-n257G | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G  CA\_n41A-n77A  CA\_n41A-n257A/G  CA\_n77A-n257A/G | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 | |
|  |  | n28 | 5, 10, 15, 20, 30 |  | |
|  |  | 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-n28A-n41A-n77A-n257H | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n257A/G/H  CA\_n77A-n257A/G/H | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 | |
|  |  | n28 | 5, 10, 15, 20, 30 |  | |
|  |  | 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-n28A-n41A-n77A-n257I | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n257A/G/H/I  CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n257A/G/H/I  CA\_n77A-n257A/G/H/I | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 | |
|  |  | n28 | 5, 10, 15, 20, 30 |  | |
|  |  | 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-n28A-n41A-n79A-n257A | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n79A-n257A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80,100 |  |
|  |  | n257 | 50, 100, 200, 400 |  |
| CA\_n3A-n28A-n41A-n79A-n257G | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n79A-n257A/G | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80,100 |  |
|  |  | n257 | CA\_n257G |  |
| CA\_n3A-n28A-n41A-n79A-n257H | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n79A-n257A/G/H | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80,100 |  |
|  |  | n257 | CA\_n257H |  |
| CA\_n3A-n28A-n41A-n79A-n257I | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n28A-n41A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80,100 |  |
|  |  | n257 | CA\_n257I |  |
| CA\_n3A-n28A-n77A-n79A-n257A | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | 50, 100, 200, 400 |  |
| CA\_n3A-n28A-n77A-n79A-n257G | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | CA\_n257G |  |
| CA\_n3A-n28A-n77A-n79A-n257H | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | CA\_n257H |  |
| CA\_n3A-n28A-n77A-n79A-n257I | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A/G/H/I | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | CA\_n257I |  |
| CA\_n3A-n28A-n77(2A)-n79A-n257A | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | 50, 100, 200, 400 |  |
| CA\_n3A-n28A-n77(2A)-n79A-n257G | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | CA\_n257G |  |
| CA\_n3A-n28A-n77(2A)-n79A-n257H | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | CA\_n257H |  |
| CA\_n3A-n28A-n77(2A)-n79A-n257I | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n79 | 40, 50, 80, 100 |  |
|  |  | n257 | CA\_n257I |  |
| CA\_n3A-n41A-n77A-n79A-n257A | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n257 | 50, 100, 200, 400 |  |
| CA\_n3A-n41A-n77A-n79A-n257G | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n257 | CA\_n257G |  |
| CA\_n3A-n41A-n77A-n79A-n257H | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n257 | CA\_n257H |  |
| CA\_n3A-n41A-n77A-n79A-n257I | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n3A-n79A  CA\_n3A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n257 | CA\_n257I |  |
| CA\_n28A-n41A-n77A-n79A-n257A | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A  CA\_n77A-n79A  CA\_n77A-n257A  CA\_n79A-n257A | n28 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n257 | 50, 100, 200, 400 |  |
| CA\_n28A-n41A-n77A-n79A-n257G | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G  CA\_n77A-n79A  CA\_n77A-n257A/G  CA\_n79A-n257A/G | n28 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n257 | CA\_n257G |  |
| CA\_n28A-n41A-n77A-n79A-n257H | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H  CA\_n77A-n79A  CA\_n77A-n257A/G/H  CA\_n79A-n257A/G/H | n28 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n257 | CA\_n257H |  |
| CA\_n28A-n41A-n77A-n79A-n257I | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n28A-n79A  CA\_n28A-n257A/G/H/I  CA\_n41A-n77A  CA\_n41A-n79A  CA\_n41A-n257A/G/H/I  CA\_n77A-n79A  CA\_n77A-n257A/G/H/I  CA\_n79A-n257A/G/H/I | n28 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 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.NOTE 3: The delimiter “/” is only used in the uplink configurations for the sake of simplicity. For example, CA\_nxA-nyA/B/C denotes CA\_nxA-nyA, CA\_nxA-nyB and CA\_nxA-nyC, where nx and ny are two NR bands, ny is a FR2 band and A, B and C are the corresponding bandwidth classes respectively. | | | | |

---Text omitted---

#### 5.5B.7.3 Inter-band NR-DC configurations between FR1 and FR2 (four bands)

Table 5.5B.7-3: Inter-band NR-DC configurations between FR1 and FR2 (four bands)

| **Downlink NR DC**  **configuration** | **Uplink NR DC**  **configuration** |
| --- | --- |
| DC\_n1A-n77A-n79A-n257A  DC\_n1A-n77A-n79A-n257G  DC\_n1A-n77A-n79A-n257H  DC\_n1A-n77A-n79A-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\_n79A-n257A  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I |
| DC\_n1A-n78A-n79A-n257A  DC\_n1A-n78A-n79A-n257G  DC\_n1A-n78A-n79A-n257H  DC\_n1A-n78A-n79A-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\_n79A-n257A  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I |
| DC\_n2A-n5A-n48A-n260A  DC\_n2A-n5A-n48A-n260G  DC\_n2A-n5A-n48A-n260H  DC\_n2A-n5A-n48A-n260I  DC\_n2A-n5A-n48A-n260J  DC\_n2A-n5A-n48A-n260K  DC\_n2A-n5A-n48A-n260L  DC\_n2A-n5A-n48A-n260M | DC\_n2A-n260A  DC\_n5A-n260A  DC\_n48A-n260A  DC\_n2A-n260G  DC\_n5A-n260G  DC\_n48A-n260G  DC\_n2A-n260H  DC\_n5A-n260H  DC\_n48A-n260H  DC\_n2A-n260I  DC\_n5A-n260I  DC\_n48A-n260I |
| DC\_n2A-n5A-n48A-n261A  DC\_n2A-n5A-n48A-n261G  DC\_n2A-n5A-n48A-n261H  DC\_n2A-n5A-n48A-n261I  DC\_n2A-n5A-n48A-n261J  DC\_n2A-n5A-n48A-n261K  DC\_n2A-n5A-n48A-n261L  DC\_n2A-n5A-n48A-n261M  DC\_n2A-n5A-n48A-n261(A-G)  DC\_n2A-n5A-n48A-n261(A-H)  DC\_n2A-n5A-n48A-n261(A-I)  DC\_n2A-n5A-n48A-n261(A-2G)  DC\_n2A-n5A-n48A-n261(2A-G)  DC\_n2A-n5A-n48A-n261(2A-H)  DC\_n2A-n5A-n48A-n261(2A-I)  DC\_n2A-n5A-n48A-n261(G-H)  DC\_n2A-n5A-n48A-n261(G-I)  DC\_n2A-n5A-n48A-n261(2A)  DC\_n2A-n5A-n48A-n261(3A)  DC\_n2A-n5A-n48A-n261(2G)  DC\_n2A-n5A-n48A-n261(2H)  DC\_n2A-n5A-n48A-n261(A-G-H)  DC\_n2A-n5A-n48A-n261(H-I)  DC\_n2A-n5A-n48A-n261(A-G-I) | DC\_n2A-n261A DC\_n5A-n261A DC\_n48A-n261A DC\_n2A-n261G DC\_n5A-n261G DC\_n48A-n261G DC\_n2A-n261H DC\_n5A-n261H DC\_n48A-n261H DC\_n2A-n261I DC\_n5A-n261I DC\_n48A-n261I |
| DC\_n2A-n5A-n66A-n260A  DC\_n2A-n5A-n66A-n260G  DC\_n2A-n5A-n66A-n260H  DC\_n2A-n5A-n66A-n260I  DC\_n2A-n5A-n66A-n260J  DC\_n2A-n5A-n66A-n260K  DC\_n2A-n5A-n66A-n260L  DC\_n2A-n5A-n66A-n260M | DC\_n2A-n260A DC\_n5A-n260A DC\_n77A-n260A DC\_n2A-n260G DC\_n5A-n260G DC\_n77A-n260G DC\_n2A-n260H DC\_n5A-n260H DC\_n77A-n260H DC\_n2A-n260I DC\_n5A-n260I DC\_n77A-n260I |
| DC\_n2A-n5A-n66A-n261A  DC\_n2A-n5A-n66A-n261G  DC\_n2A-n5A-n66A-n261H  DC\_n2A-n5A-n66A-n261I  DC\_n2A-n5A-n66A-n261J  DC\_n2A-n5A-n66A-n261K  DC\_n2A-n5A-n66A-n261L  DC\_n2A-n5A-n66A-n261M  DC\_n2A-n5A-n66A-n261(2A)  DC\_n2A-n5A-n66A-n261(3A)  DC\_n2A-n5A-n66A-n261(2G)  DC\_n2A-n5A-n66A-n261(G-H)  DC\_n2A-n5A-n66A-n261(A-G-H)  DC\_n2A-n5A-n66A-n261(G-I)  DC\_n2A-n5A-n66A-n261(2H)  DC\_n2A-n5A-n66A-n261(A-G-I)  DC\_n2A-n5A-n66A-n261(H-I)  DC\_n2A-n5A-n66A-n261(A-G)  DC\_n2A-n5A-n66A-n261(A-H)  DC\_n2A-n5A-n66A-n261(2A-G)  DC\_n2A-n5A-n66A-n261(2A-H)  DC\_n2A-n5A-n66A-n261(A-2G)  DC\_n2A-n5A-n66A-n261(A-I)  DC\_n2A-n5A-n66A-n261(2A-I) | DC\_n2A-n261A  DC\_n2A-n261G  DC\_n2A-n261H  DC\_n2A-n261I  DC\_n5A-n261A  DC\_n5A-n261G  DC\_n5A-n261H  DC\_n5A-n261I  DC\_n66A-n261A  DC\_n66A-n261G  DC\_n66A-n261H  DC\_n66A-n261I |
| DC\_n2A-n5A-n77A-n260A  DC\_n2A-n5A-n77A-n260G  DC\_n2A-n5A-n77A-n260H  DC\_n2A-n5A-n77A-n260I  DC\_n2A-n5A-n77A-n260J  DC\_n2A-n5A-n77A-n260K  DC\_n2A-n5A-n77A-n260L  DC\_n2A-n5A-n77A-n260M | DC\_n2A-n260A DC\_n5A-n260A DC\_n77A-n260A DC\_n2A-n260G DC\_n5A-n260G DC\_n77A-n260G DC\_n2A-n260H DC\_n5A-n260H DC\_n77A-n260H DC\_n2A-n260I DC\_n5A-n260I DC\_n77A-n260I |
| DC\_n2A-n5A-n77A-n261A  DC\_n2A-n5A-n77A-n261G  DC\_n2A-n5A-n77A-n261H  DC\_n2A-n5A-n77A-n261I  DC\_n2A-n5A-n77A-n261J  DC\_n2A-n5A-n77A-n261K  DC\_n2A-n5A-n77A-n261L  DC\_n2A-n5A-n77A-n261M  DC\_n2A-n5A-n77A-n261(A-G)  DC\_n2A-n5A-n77A-n261(A-H)  DC\_n2A-n5A-n77A-n261(A-I)  DC\_n2A-n5A-n77A-n261(A-2G)  DC\_n2A-n5A-n77A-n261(2A-G)  DC\_n2A-n5A-n77A-n261(2A-H)  DC\_n2A-n5A-n77A-n261(2A-I)  DC\_n2A-n5A-n77A-n261(G-H)  DC\_n2A-n5A-n77A-n261(2A)  DC\_n2A-n5A-n77A-n261(3A)  DC\_n2A-n5A-n77A-n261(2G)  DC\_n2A-n5A-n77A-n261(2H)  DC\_n2A-n5A-n77A-n261(A-G-H)  DC\_n2A-n5A-n77A-n261(G-I)  DC\_n2A-n5A-n77A-n261(H-I)  DC\_n2A-n5A-n77A-n261(A-G-I) | DC\_n2A-n261A DC\_n5A-n261A DC\_n77A-n261A DC\_n2A-n261G DC\_n5A-n261G DC\_n77A-n261G DC\_n2A-n261H DC\_n5A-n261H DC\_n77A-n261H DC\_n2A-n261I DC\_n5A-n261I DC\_n77A-n261I |
| DC\_n2A-n48A-n66A-n260A  DC\_n2A-n48A-n66A-n260G  DC\_n2A-n48A-n66A-n260H  DC\_n2A-n48A-n66A-n260I  DC\_n2A-n48A-n66A-n260J  DC\_n2A-n48A-n66A-n260K  DC\_n2A-n48A-n66A-n260L  DC\_n2A-n48A-n66A-n260M | DC\_n2A-n260A  DC\_n66A-n260A  DC\_n48A-n260A  DC\_n2A-n260G  DC\_n66A-n260G  DC\_n48A-n260G  DC\_n2A-n260H  DC\_n66A-n260H  DC\_n48A-n260H  DC\_n2A-n260I  DC\_n66A-n260I  DC\_n48A-n260I |
| DC\_n2A-n48A-n66A-n261A  DC\_n2A-n48A-n66A-n261G  DC\_n2A-n48A-n66A-n261H  DC\_n2A-n48A-n66A-n261I  DC\_n2A-n48A-n66A-n261J  DC\_n2A-n48A-n66A-n261K  DC\_n2A-n48A-n66A-n261L  DC\_n2A-n48A-n66A-n261M  DC\_n2A-n48A-n66A-n261(A-G)  DC\_n2A-n48A-n66A-n261(A-H)  DC\_n2A-n48A-n66A-n261(A-I)  DC\_n2A-n48A-n66A-n261(A-2G)  DC\_n2A-n48A-n66A-n261(2A-G)  DC\_n2A-n48A-n66A-n261(2A-H)  DC\_n2A-n48A-n66A-n261(2A-I)  DC\_n2A-n48A-n66A-n261(G-H)  DC\_n2A-n48A-n66A-n261(2A)  DC\_n2A-n48A-n66A-n261(3A)  DC\_n2A-n48A-n66A-n261(2G)  DC\_n2A-n48A-n66A-n261(2H)  DC\_n2A-n48A-n66A-n261(A-G-H)  DC\_n2A-n48A-n66A-n261(G-I)  DC\_n2A-n48A-n66A-n261(H-I)  DC\_n2A-n48A-n66A-n261(A-G-I) | DC\_n2A-n261A DC\_n66A-n261A DC\_n48A-n261A DC\_n2A-n261G DC\_n66A-n261G DC\_n48A-n261G DC\_n2A-n261H DC\_n66A-n261H DC\_n48A-n261H DC\_n2A-n261I DC\_n66A-n261I DC\_n48A-n261I |
| DC\_n2A-n66A-n77A-n260A  DC\_n2A-n66A-n77A-n260G  DC\_n2A-n66A-n77A-n260H  DC\_n2A-n66A-n77A-n260I  DC\_n2A-n66A-n77A-n260J  DC\_n2A-n66A-n77A-n260K  DC\_n2A-n66A-n77A-n260L  DC\_n2A-n66A-n77A-n260M | DC\_n2A-n260A  DC\_n2A-n260G  DC\_n2A-n260H  DC\_n2A-n260I  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\_n2A-n66A-n77A-n261A  DC\_n2A-n66A-n77A-n261G  DC\_n2A-n66A-n77A-n261H  DC\_n2A-n66A-n77A-n261I  DC\_n2A-n66A-n77A-n261J  DC\_n2A-n66A-n77A-n261K  DC\_n2A-n66A-n77A-n261L  DC\_n2A-n66A-n77A-n261M  DC\_n2A-n66A-n77A-n261(A-G)  DC\_n2A-n66A-n77A-n261(A-H)  DC\_n2A-n66A-n77A-n261(A-I)  DC\_n2A-n66A-n77A-n261(A-2G)  DC\_n2A-n66A-n77A-n261(2A-G)  DC\_n2A-n66A-n77A-n261(2A-H)  DC\_n2A-n66A-n77A-n261(2A-I)  DC\_n2A-n66A-n77A-n261(G-H)  DC\_n2A-n66A-n77A-n261(2A)  DC\_n2A-n66A-n77A-n261(3A)  DC\_n2A-n66A-n77A-n261(2G)  DC\_n2A-n66A-n77A-n261(2H)  DC\_n2A-n66A-n77A-n261(A-G-H)  DC\_n2A-n66A-n77A-n261(G-I)  DC\_n2A-n66A-n77A-n261(H-I)  DC\_n2A-n66A-n77A-n261(A-G-I) | DC\_n2A-n261A  DC\_n66A-n261A  DC\_n77A-n261A  DC\_n2A-n261G  DC\_n66A-n261G  DC\_n77A-n261G  DC\_n2A-n261H  DC\_n66A-n261H  DC\_n77A-n261H  DC\_n2A-n261I  DC\_n66A-n261I  DC\_n77A-n261I |
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--- End of changes ---