**3GPP TSG-RAN WG4 Meeting #112 draft R4-2414312**

**Maastricht, Netherlands, 19th – 23rd August, 2024**

**Agenda item: 8.3.4**

**Source:** OPPO

**Title:** WF on NR sidelink for intra-band non-contiguous CA

**Document for:** Information

# Introduction

This WF captures the online agreements of intra-band non-contiguous CA.

# Topic #1: System Parameter

Issue 2-1-1: Operating band

Agreement: Merge two tables.

* Table 5.1.2-1 Intra-band non-contiguous SL CA operating bands in FR1

|  |  |  |
| --- | --- | --- |
| NR intra-band non-contiguous SL CA operating Band | NR SL Operating Band | Interface |
| SL\_n47(2A) | n47 | PC5 |
| NOTE 1: The minimum requirements only apply for non simultaneous Tx/Rx between all carriers in n47 band. | | |

* Table 5.1.1-1: Intra-band contiguous CA operating bands for SL CA in FR1

|  |  |  |
| --- | --- | --- |
| NR SL CA Band | NR Band | Interface |
| SL\_n47 | n47 | PC5 |

Issue 2-1-2: Channel bandwidth

Agreement:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sidelink CA configuration / Bandwidth combination set | | | | | | | |
| Sidelink CA configuration | Sidelink CA configuration for TX | Component carriers in order of increasing carrier frequency | | | | Maximum aggregated  bandwidth [MHz] | Bandwidth combination set |
| **Channel bandwidths for carrier [MHz]** | **Channel bandwidths for carrier [MHz]** | **Channel bandwidths for carrier [MHz]** | **Channel bandwidths for carrier [MHz]** |
| SL\_n47(2A) | SL\_n47(2A) | 10 | 10, 20 |  |  | 30 | 0 |

# Topic #2: UE TX RF requirement

Issue 2-1-2: How to define the requirement

Agreement:

* Define MPR to meet -13dBm/MHz and MPR to meet -30dBm/MHz as NR intra-band non-contiguous CA
* Consider B = (LCRB1\* 12\* SCS1 + LCRB2 \* 12 \* SCS2)/1,000 for PSSCH as NR intra-band non-contiguous CA

Issue 2-2-2: PSSCH/PSCCH with 2x20dBm PA + 1LO

Agreement: use PSSCH/PSCCH with 2x20dBm PA for PC3 sidelink non-contiguous CA evaluation.