**3GPP TSG-RAN WG4 Meeting #97-e R4-201xxxx**

**Electronic Meeting, 2 November – 13 November 2020**

**Source:** China Unicom, ZTE, CHTTL

**Title:** TP for TR 37.826: PC2 for DC\_1A\_n78A

**Agenda item:** 10.20.2

**Document for:** Approval

# 1. Introduction

In RAN#89-e meeting, the Revised WID on High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band [1] was approved. This contribution is a text proposal for TR 37.826 to include Power Class 2 for combination DC\_1A\_n78A.

# 2. Text Proposal

# ---Start of changes---

## 6.x DC\_1A\_n78A

### 6.x.1 Transmitter Characteristics

#### 6.x.1.1 Maximum Output Power

Table 6.x.1.-1: Maximum output power for inter-band EN-DC (two bands)

| **EN-DC combination** | Power class 2 (dBm) | Tolerance (dB) |
| --- | --- | --- |
| DC\_1A\_n78A | 266 | +2/-3 |
| NOTE 6: The UE supports PC3 within E-UTRA cell group, and supports either PC3 or PC2 within NR cell group. Power class support within each individual cell group is signaled separately by the UE. |

#### 6.x.1.2 Co-existence study

The co-existence study for PC2 DC\_1A\_n78A can be reused from the PC3 DC\_1A\_n78A captured in TR37.863-11-11, where:

- 4th intermodulation product may fall into band n1 Rx.

Therefore, additional MSD for IMD4 needs to be defined for PC2 DC\_1A\_n78A.

### 6.x.2 Receiver Characteristics

#### 6.x.2.3 MSD test points for intermodulation interference due to dual uplink operation for PC2 EN-DC in NR FR1 involving two bands

Table 6.x.2.3-1: MSD test points for PCell due to dual uplink operation for PC2 EN-DC in NR FR1 (two bands)

| NR or E-UTRA Band / Channel bandwidth / NRB / MSD |
| --- |
| EN-DCConfiguration | EUTRA or NR band | UL Fc (MHz) | UL/DL BW (MHz) | UL LCRB | DL Fc (MHz) | MSD (dB) | IMD order |
| DC\_1A\_n78A | 1 | 1950 | 5 | 25 | 2140 | 17.8 | IMD4 |
| n78 | 3710 | 10 | 50 | 3710 | N/A | N/A |

---End of changes---

# Reference

[1] RP-202079 Revised WID on High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band, China Unicom