**3GPP TSG-RAN WG4 Meeting #111 R4-2409930**

**Fukuoka City, Fukuoka, Japan, 20th – 24th May, 2024**

**Agenda item:** 7.9.3

**Source:** vivo

**Title:** WF for [111][336] NR\_FR1\_TRP\_TRS\_enh

**Document for:** Approval

# Introduction

This WF capture the discussion conclusion for Rel-18 FR1 TRP TRS WI.

# Topic #2: Rel-18 TRP TRS requirements related issues

### Sub-topic 2-1 RC Harmonization and lab alignment

**Issue 2-1-1: Total Harmonization MU**

*Conclusions:*

Total harmonization MU=AC MU+0.2dB

**Issue 2-1-2:** **Maintenance work for RC unavailable results**

*Conclusions:*

Allow to update RC harmonization data in maintenance phase when the unfinished n28 testing from lab 9 is done.

**Issue 2-1-3: Rel-18 RC harmonization conclusions**

***Conclusions:***

Conclude RC test method harmonization for bands>3GHz. FFS below 3GHz

### Sub-topic 2-2 Additional CBW for band n28/n41/n77/n78 requirements

**Issue 2-2-1: Scaling factor to derive requirements on alternate narrow CBW for n28/n41/n77/n78?**

**Conclusions:**

7dB offset value for n41/77/78 TRS, between 100MHz and 20MHz CBW.

**Issue 2-2-3: SPOT method for alternative CBW testing**

**Conclusions**:

Capture SPOT method into TR as alternative for TRS measurements when using different channel bandwidth configurations on the same channel.

### Sub-topic 2-3 Rel-18 TRP TRS requirements work

**Issue 2-3-1: Thresholds of UE information for measured data pool**

**Conclusions:**

* **Adopt the following values for the thresholds related to the devices pool for Rel-18.** 
  + *Minimum number of devices for each band, each device size, each power class: 40*
  + *Minimum number of device models: 30*
  + *Minimum number of devices' vendors: 5*
  + *Percentage of devices from second-half 2021 to 2024: 100%*
  + *Percentage of the devices that are certified by PTCRB/GCF/NAL-CTA/CE/FCC: 100%*

# Annex: UE information statistics by RAN4 MCC (for information)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Total Devices** | **81** |  |  |  |
| **Total Models** | **79** |  |  |  |
| **Total number of device vendors** | **17** |  |  |  |
| **Percentage of devices per vendor** | **10** | **12.35%** | **Vendor A** |  |
| **15** | **18.52%** | **Vendor B** |  |
| **3** | **3.70%** | **Vendor C** |  |
| **21** | **25.93%** | **Vendor D** |  |
| **12** | **14.81%** | **Vendor E** |  |
| **1** | **1.23%** | **Vendor F** |  |
| **3** | **3.70%** | **Vendor G** |  |
| **1** | **1.23%** | **Vendor H** |  |
| **6** | **7.41%** | **Vendor I** |  |
| **1** | **1.23%** | **Vendor J** |  |
| **1** | **1.23%** | **Vendor k** |  |
| **1** | **1.23%** | **Vendor L** |  |
| **1** | **1.23%** | **Vendor M** |  |
| **1** | **1.23%** | **Vendor N** |  |
| **2** | **2.47%** | **Vendor O** |  |
| **1** | **1.23%** | **Vendor P** |  |
| **1** | **1.23%** | **Vendor Q** |  |
| **Percentage of devices per power class per band** | **2** | **n1** | **PC2** | **2.47%** |
| **76** | **PC3** | **93.83%** |
| **0** | **n28** | **PC2** | **0.00%** |
| **72** | **PC3** | **88.89%** |
| **56** | **n41** | **PC2** | **69.14%** |
| **14** | **PC3** | **17.28%** |
| **65** | **n78** | **PC2** | **80.25%** |
| **6** | **PC3** | **7.41%** |
| **Percentage of devices per supported band** |  |  | **n1** | **96.30%** |
|  |  | **n28** | **88.89%** |
|  |  | **n41** | **86.42%** |
|  |  | **n78** | **87.65%** |
| **Percentage of devices per year of production** | **8** |  | **2021** | **9.88%** |
| **30** |  | **2022** | **37.04%** |
| **33** |  | **2023** | **40.74%** |
| **10** |  | **2024** | **12.35%** |
| **Percentage of devices with at least one certification** | **81** |  |  | **100.00%** |
| **Percentage of devices for each certification** | **25** |  | **GCF** | **30.86%** |
| **12** |  | **PTCRB** | **14.81%** |
| **30** |  | **NAL(CTA)** | **37.04%** |
| **30** |  | **FCC** | **37.04%** |
| **35** |  | **CE** | **43.21%** |
| **0** |  | **Not Available** |  |