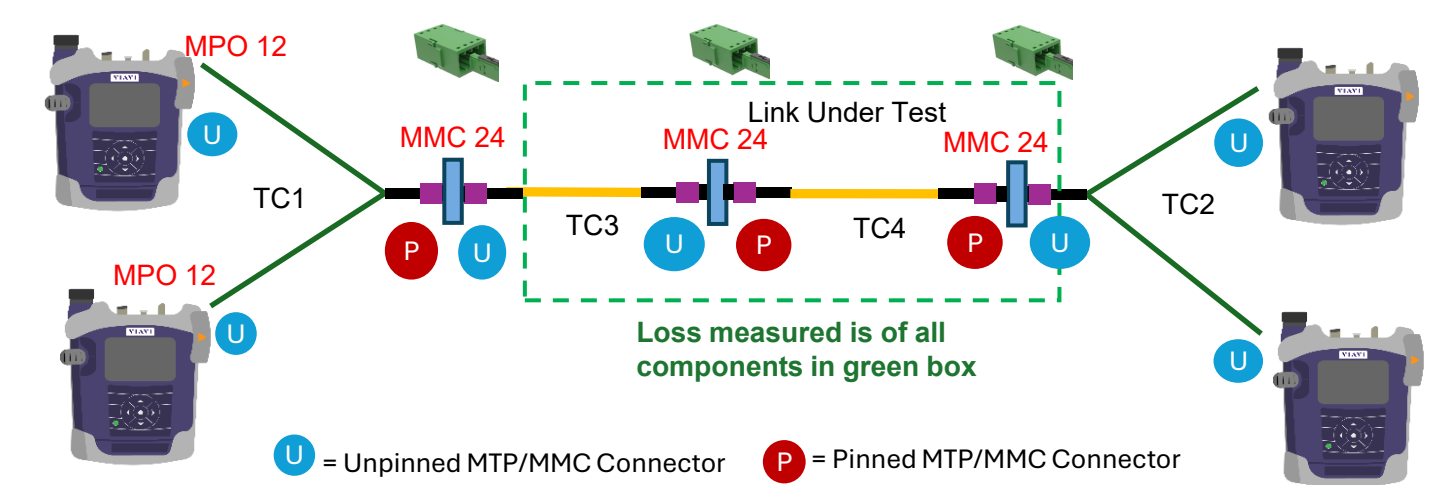


# Setting & Verifying the Reference on MMC terminated links using the VIAVI MPOLx

## Test Reference Cords

# What Needs to be Measured

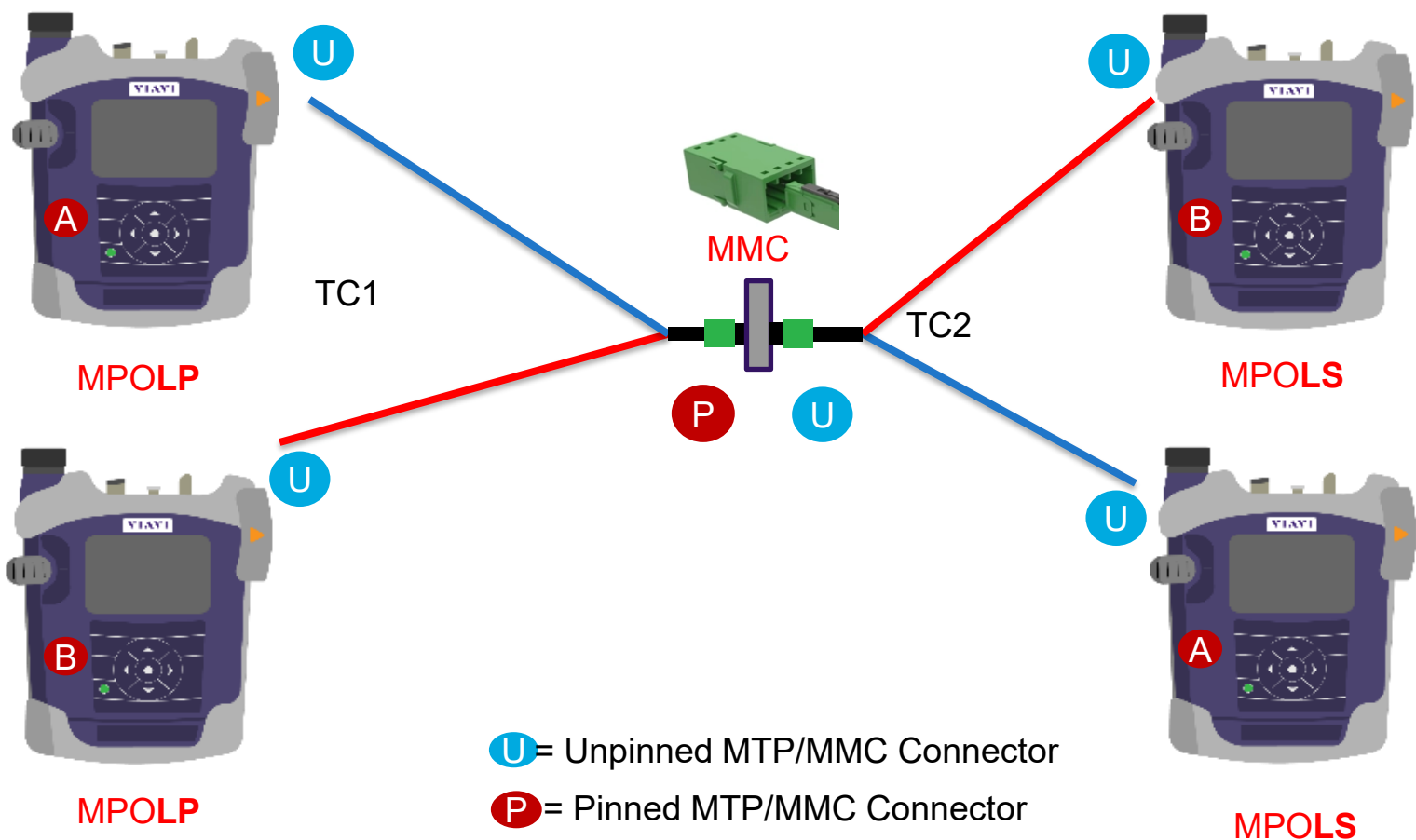
## 24F Pinned MMC Links



| ID         | TC2                                                       | TC1                                                       | TC3                                  | TC4                       |
|------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------|---------------------------|
| Cable      | MMC24-2MPO12 Y-Cable                                      | MMC24-2MPO12 Y-Cable                                      | MMC Jumper (24f)                     | MMC Trunk (24f)           |
| End A      | MMC24,U                                                   | MMC24,P                                                   | MMC24,U                              | MMC24,P                   |
| End B      | MPO12,U                                                   | MPO12,U                                                   | MMC24,U                              | MMC24,P                   |
| Polarity   | Straight                                                  | Reversed                                                  | Jumper                               | Trunk                     |
| Length (m) | 2                                                         | 2                                                         | 1.7                                  | 2                         |
| QTY        | 1                                                         | 1                                                         | 1                                    | 1                         |
| Note       | TC1 for LS and PM that have Pinned connector inside meter | TC2 for LS and PM that have Pinned connector inside meter | TC3 (as Adaptor Cord, to test Trunk) | Trunk (Verification Cord) |

# Step 1: Set Reference

- Connect TC1 and TC2 via an MMC adapter
- Set Reference – verify absolute power levels



Set Test Reference 📶 🔋 ⚠️ 22:04

Press Next button to start referencing

3-cord / Standard Grade

Next

Set Test Reference 📶 🔋 ⚠️ 22:07

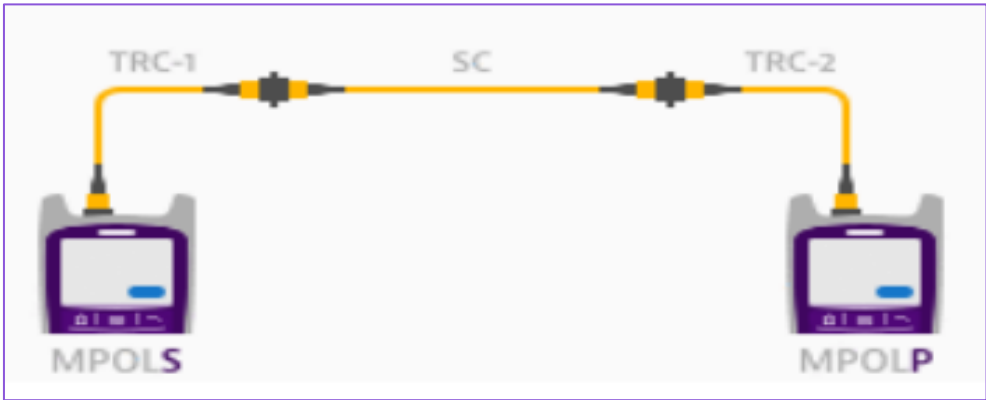
| Reference Values (dBm) |         |         |      |         |         |
|------------------------|---------|---------|------|---------|---------|
| Fib.                   | 1310 nm | 1550 nm | Fib. | 1310 nm | 1550 nm |
| 1                      | -5.74   | -6.51   | 7    | -6.32   | -7.34   |
| 2                      | -5.86   | -6.89   | 8    | -6.21   | -6.82   |
| 3                      | -5.83   | -7.06   | 9    | -5.85   | -6.72   |
| 4                      | -6.29   | -7.46   | 10   | -5.71   | -6.71   |
| 5                      | -6.06   | -7.33   | 11   | -5.69   | -6.50   |
| 6                      | -6.24   | -7.12   | 12   | -6.23   | -6.88   |

# Verify Test Cords Polarity

## Activate Fiber Map Application

1. Connect MPOLS to MPOLP via TRC

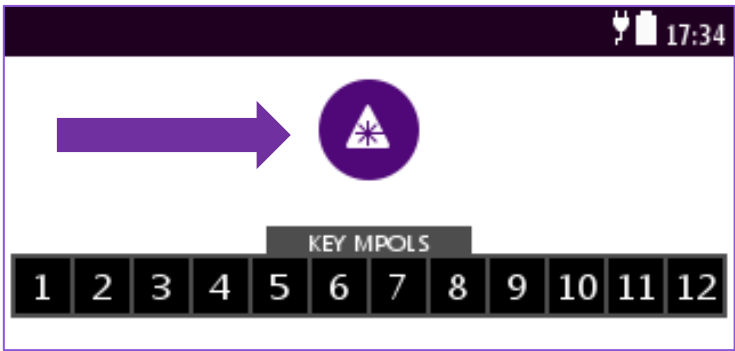
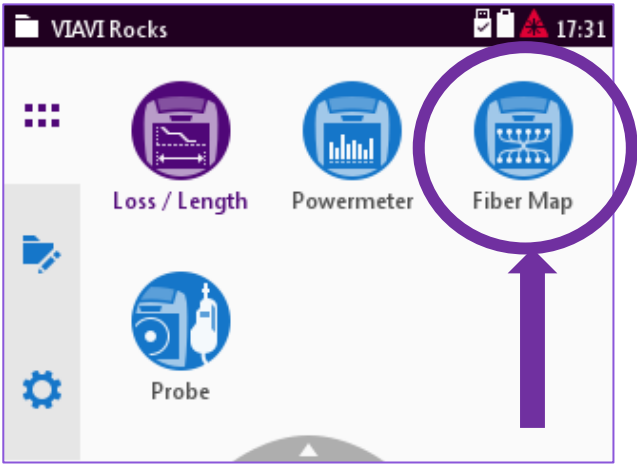
MPOLS



MPOLP

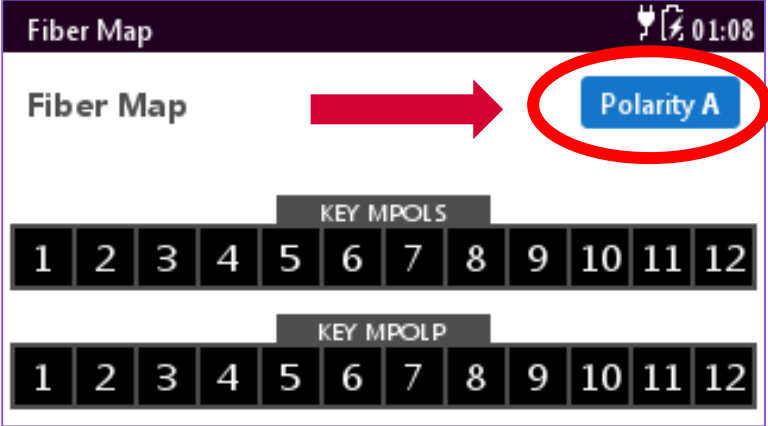
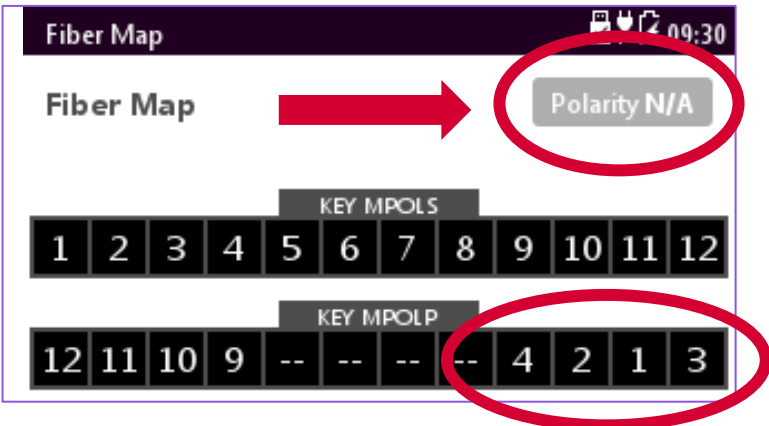
2. Launch the Fiber Map App on MPOLS and MPOLP

3. Activate the laser on the MPOLS



4. View Details and Polarity of Fiber on MPOLP

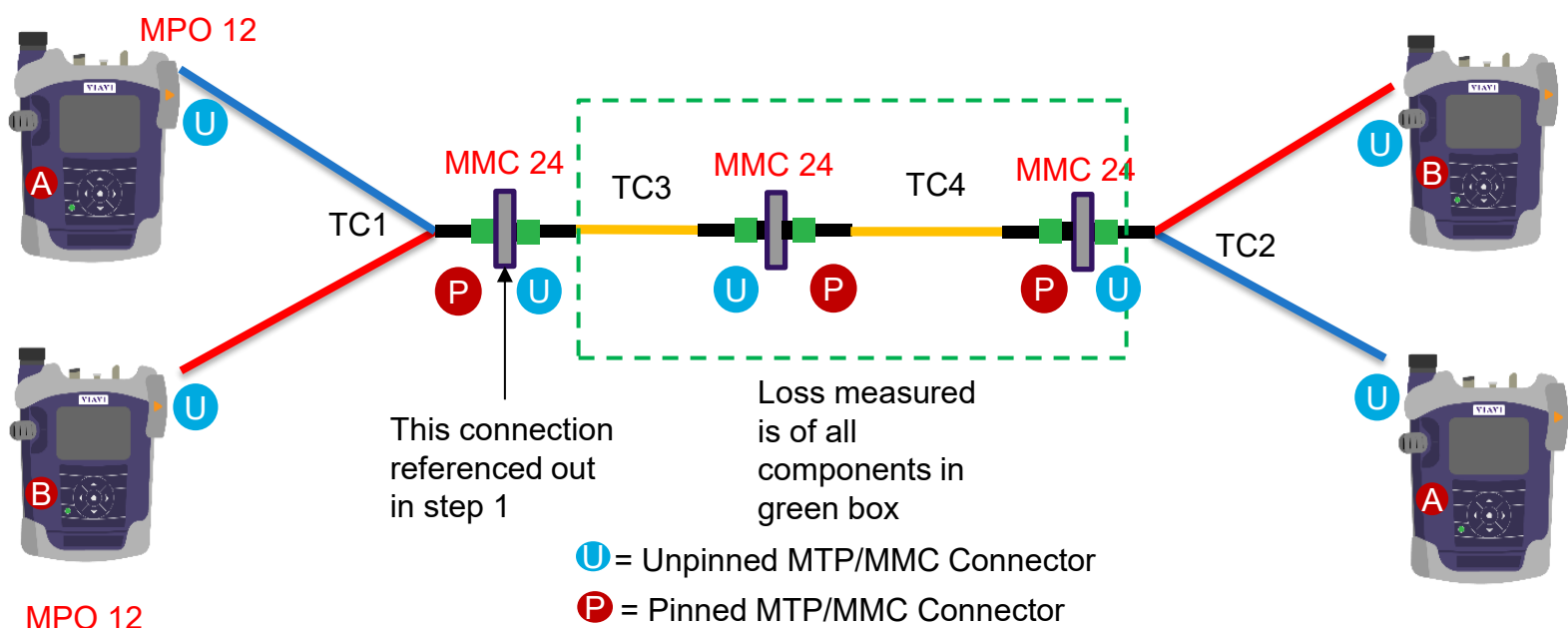
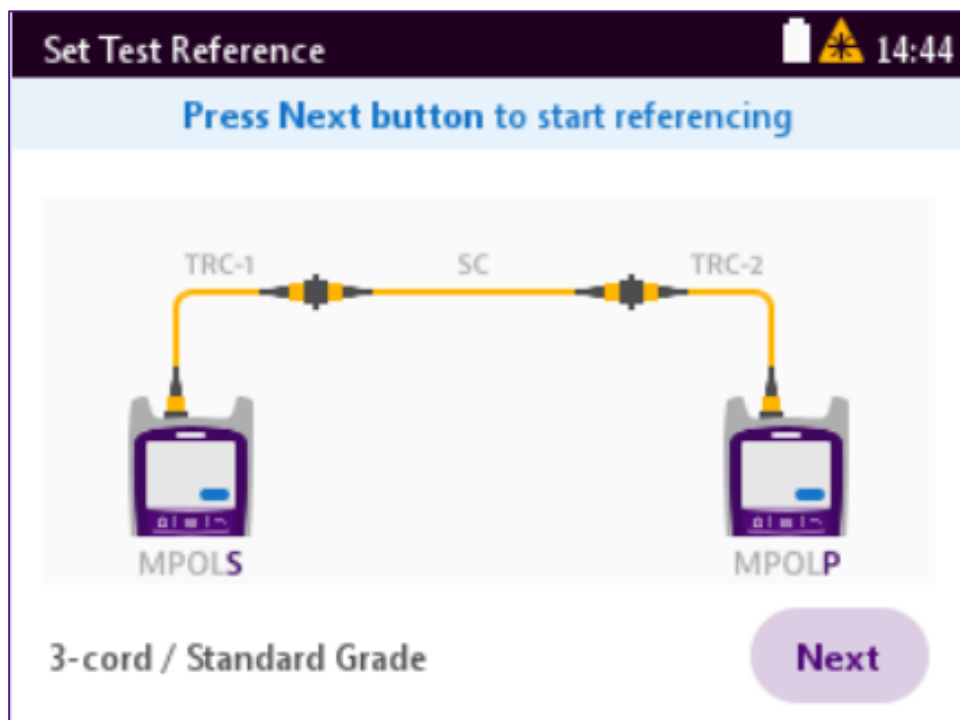
5. If TRC's are not **Polarity B**, replace test cords with correct polarity TRC's





# Step 2: Verify Test Cords

- Add TC3 and TC4
- Perform a test, Verify loss is  $\leq 0.80$  dB
- Save verification test result



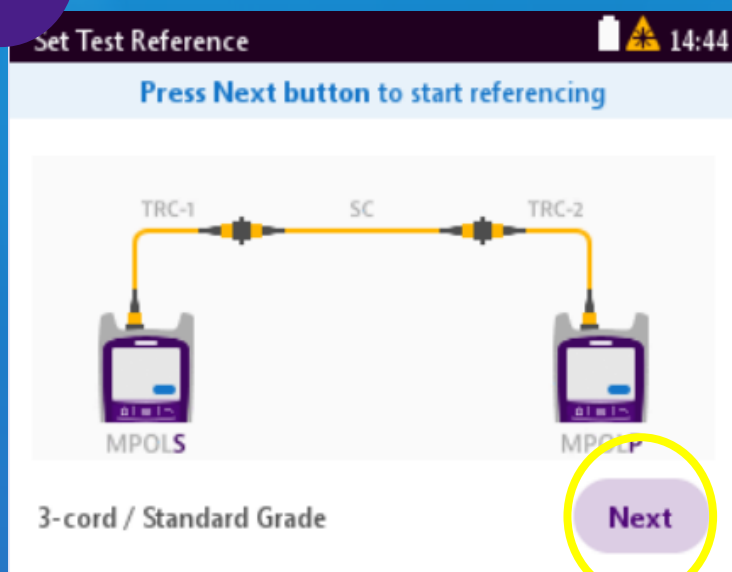
## Verifying the Reference: Step 2



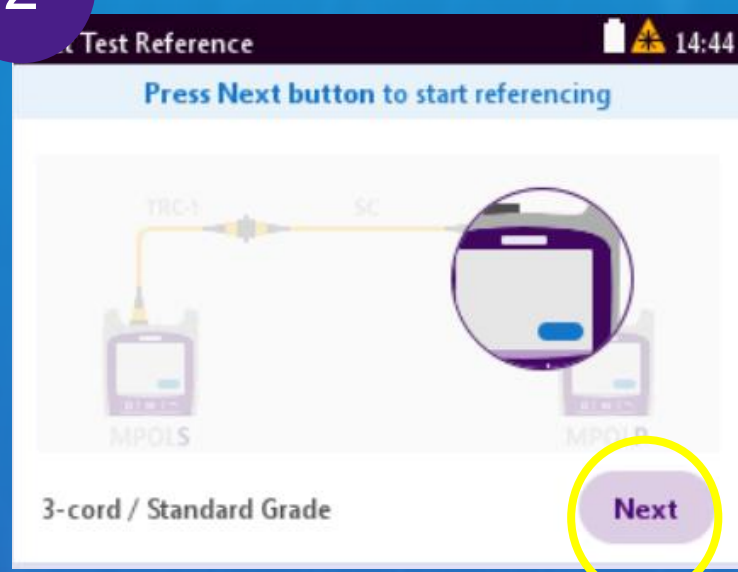
Once all TCs & Trunk Cord are in place, press Done and then press Test. This will verify the condition of TC's and ensure that you are only testing the fiber under test.

–Acceptable test results for reference verification must not exceed 0.8dB

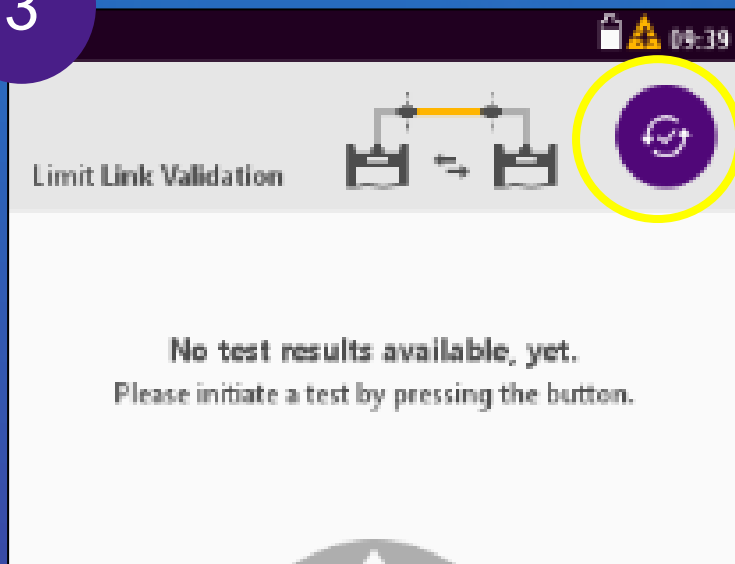
1



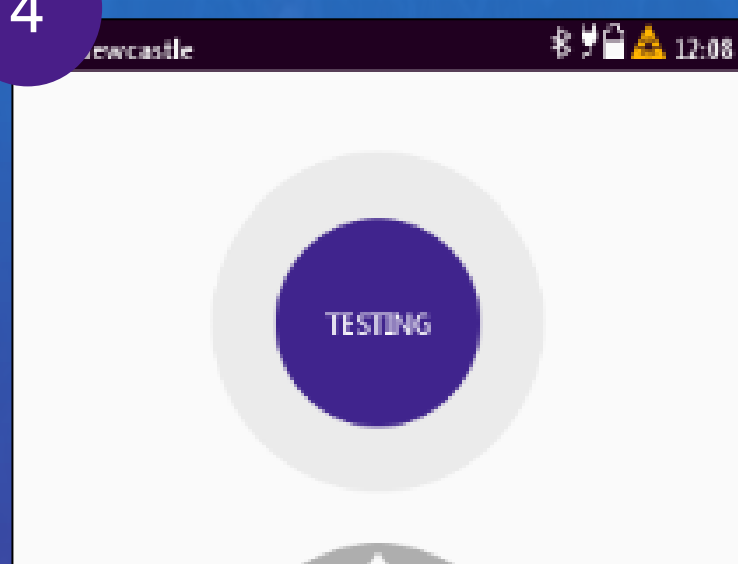
2



3



4



### Remember:

After every 250 to 300 MMC tests, you must re-reference and save the reference verification as a additional test result

# Step 3: Test

- Remove TC4
- Connect to system and test
- Save result

