

Go/No Go Test



Xperia™ Z5 Compact
E5803, E5823

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E5803 no LTE is implemented in SERPII.

E5823 no LTE is implemented in SERPII.

1 Go/No Go Testing

This Go/No Go testing has to be carried out in one way, with an:

- Antenna Coupler.

For more information on Antenna Coupler and Cable in shield box testing, refer to 1220-1336: Generic Repair Manual – electrical, section ‘Setup Go/NoGo Test’!

For part no's on the equipment below, refer to the ‘Tools Catalogue/Matrix’!

1.1 Antenna Coupler E5803 and E5823

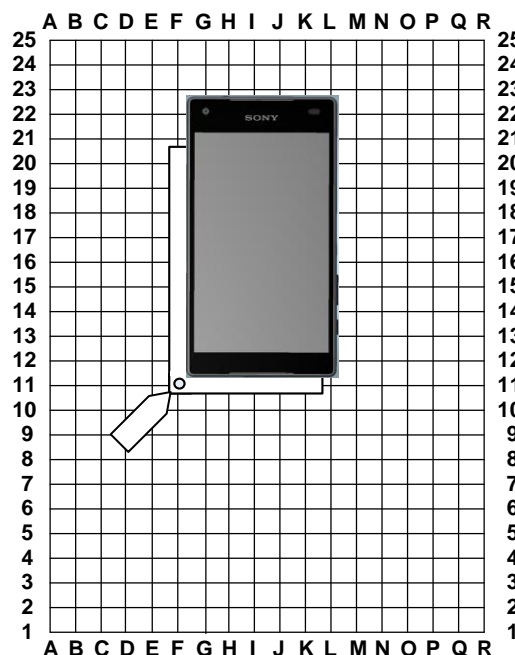
The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMU-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Nano USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

Put the grid positioning holder with its reference point in position **F11** and place the phone as shown in the adjacent picture.



1.2 Antenna Coupler E5803 and E5823 all bands

The following equipment has to be used:

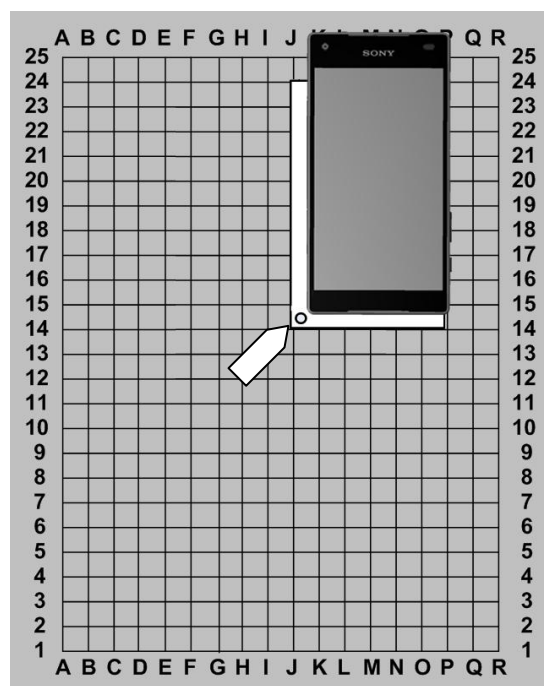
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMW-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

LTE BAND-1/2/3/4/5/7/8/12/17/20/28/38/40

Put the grid positioning holder with its reference point in position **J14** and place the phone as shown in the adjacent picture.



Go/NoGo Testing

Follow the directions stated in 'Go/NoGo Test Script Parameters' to be found in 1220-1336: Generic Repair Manual – electrical, together with the 'Attenuation Factors' below!

This phone is available in 2 variants E5803 and E5823 including the following bands:

E5803:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 17 / 20 / 28 / 38 / 40

not to be tested in SERPII.

E5823:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 17 / 20 / 28 / 38 / 40

not to be tested in SERPII.

Go/NoGo Testing

1.3 Attenuation Factors

The attenuation values listed below in 1.3.1 and 1.3.2 is valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler CMU-Z11, E5803 and E5823

| Band | Channel | Attenuation E5803 | | Attenuation E5823 | |
|------------|---------|----------------------|-------|----------------------|-------|
| | | Rx | Tx | Rx | Tx |
| GSM 850 | Low | 8.50 | 15.75 | 8.50 | 15.75 |
| | Mid | 6.50 | 14.03 | 6.50 | 14.03 |
| | High | 6.00 | 12.48 | 6.00 | 12.48 |
| GSM 900 | Low | 8.00 | 7.60 | 8.00 | 7.60 |
| | Mid | 8.00 | 8.56 | 8.00 | 8.56 |
| | High | 11.00 | 9.45 | 11.00 | 9.45 |
| GSM 1800 | Low | 12.00 | 12.72 | 12.00 | 12.72 |
| | Mid | 15.00 | 11.39 | 15.00 | 11.39 |
| | High | 16.00 | 11.24 | 16.00 | 11.24 |
| GSM 1900 | Low | 11.00 | 15.28 | 11.00 | 15.28 |
| | Mid | 14.00 | 12.79 | 14.00 | 12.79 |
| | High | 14.00 | 11.97 | 14.00 | 11.97 |
| WCDMA 850 | Low | 7.50 | 12.99 | 7.50 | 12.99 |
| | Mid | 6.00 | 10.67 | 6.00 | 10.67 |
| | High | 5.00 | 8.57 | 5.00 | 8.57 |
| WCDMA 900 | Low | 7.00 | 6.05 | 7.00 | 6.05 |
| | Mid | 8.00 | 5.43 | 8.00 | 5.43 |
| | High | 10.00 | 5.54 | 10.00 | 5.54 |
| WCDMA 1900 | Low | 12.50 | 12.60 | 12.50 | 12.60 |
| | Mid | 13.00 | 11.93 | 13.00 | 11.93 |
| | High | 13.50 | 10.78 | 13.50 | 10.78 |
| WCDMA 2100 | Low | 11.00 | 10.67 | 11.00 | 10.67 |
| | Mid | 10.50 | 11.04 | 10.50 | 11.04 |
| | High | 10.00 | 12.03 | 10.00 | 12.03 |

Go/NoGo Testing

1.3.2 Loss Values – Antenna Coupler CMU-Z11, E5803 and E5823

| Band | Channel | Attenuation E5803 | | Attenuation E5823 | |
|------------|---------|----------------------|-------|----------------------|-------|
| | | Rx | Tx | Rx | Tx |
| GSM 850 | Low | 14.00 | 9.27 | 14.00 | 9.27 |
| | Mid | 14.00 | 10.82 | 14.00 | 10.82 |
| | High | 13.00 | 12.58 | 13.00 | 12.58 |
| GSM 900 | Low | 16.00 | 9.10 | 16.00 | 9.10 |
| | Mid | 17.00 | 10.00 | 17.00 | 10.00 |
| | High | 17.00 | 10.37 | 17.00 | 10.37 |
| GSM 1800 | Low | 16.00 | 13.33 | 16.00 | 13.33 |
| | Mid | 16.00 | 14.24 | 16.00 | 14.24 |
| | High | 18.00 | 13.00 | 18.00 | 13.00 |
| GSM 1900 | Low | 18.00 | 15.00 | 18.00 | 15.00 |
| | Mid | 18.00 | 15.00 | 18.00 | 15.00 |
| | High | 18.00 | 15.00 | 18.00 | 15.00 |
| WCDMA 850 | Low | 12.00 | 7.00 | 12.00 | 7.00 |
| | Mid | 9.00 | 7.52 | 9.00 | 7.52 |
| | High | 9.00 | 8.68 | 9.00 | 8.68 |
| WCDMA 900 | Low | 12.00 | 7.30 | 12.00 | 7.30 |
| | Mid | 13.00 | 7.18 | 13.00 | 7.18 |
| | High | 12.00 | 7.41 | 12.00 | 7.41 |
| WCDMA 1900 | Low | 16.00 | 10.30 | 16.00 | 10.30 |
| | Mid | 14.00 | 11.50 | 14.00 | 11.50 |
| | High | 13.00 | 12.66 | 13.00 | 12.66 |
| WCDMA 2100 | Low | 12.00 | 12.54 | 12.00 | 12.54 |
| | Mid | 13.00 | 10.68 | 13.00 | 10.68 |
| | High | 13.00 | 9.77 | 13.00 | 9.77 |
| LTE Band 1 | Low | 10.00 | 14.80 | 10.00 | 14.80 |
| | Mid | 11.00 | 13.50 | 11.00 | 13.50 |
| | High | 10.00 | 15.00 | 10.00 | 15.00 |
| LTE Band 2 | Low | 14.00 | 12.57 | 14.00 | 12.57 |
| | Mid | 12.00 | 14.10 | 12.00 | 14.10 |
| | High | 11.00 | 15.17 | 11.00 | 15.17 |
| LTE Band 3 | Low | 12.00 | 13.30 | 12.00 | 13.30 |
| | Mid | 11.00 | 13.30 | 11.00 | 13.30 |
| | High | 13.00 | 12.00 | 13.00 | 12.00 |

Go/NoGo Testing

| Band | Channel | Attenuation E5803 | | Attenuation E5823 | |
|-------------|---------|----------------------|-------|----------------------|-------|
| | | Rx | Tx | Rx | Tx |
| LTE Band 4 | Low | 10.00 | 13.30 | 10.00 | 13.30 |
| | Mid | 11.00 | 13.60 | 11.00 | 13.60 |
| | High | 12.00 | 13.02 | 12.00 | 13.02 |
| LTE Band 5 | Low | 10.00 | 9.50 | 10.00 | 9.50 |
| | Mid | 9.00 | 10.30 | 9.00 | 10.30 |
| | High | 9.00 | 11.33 | 9.00 | 11.33 |
| LTE Band 7 | Low | 23.00 | 16.79 | 23.00 | 16.79 |
| | Mid | 25.00 | 17.13 | 25.00 | 17.13 |
| | High | 23.00 | 18.00 | 23.00 | 18.00 |
| LTE Band 8 | Low | 8.00 | 9.96 | 8.00 | 9.96 |
| | Mid | 9.00 | 9.77 | 9.00 | 9.77 |
| | High | 8.00 | 9.87 | 8.00 | 9.87 |
| LTE Band 12 | Low | 9.00 | 11.95 | 9.00 | 11.95 |
| | Mid | 9.00 | 11.40 | 9.00 | 11.40 |
| | High | 9.00 | 11.33 | 9.00 | 11.33 |
| LTE Band 17 | Low | 9.00 | 11.40 | 9.00 | 11.40 |
| | Mid | 9.00 | 11.10 | 9.00 | 11.10 |
| | High | 9.00 | 11.10 | 9.00 | 11.10 |
| LTE Band 20 | Low | 8.00 | 10.38 | 8.00 | 10.38 |
| | Mid | 9.00 | 11.40 | 9.00 | 11.40 |
| | High | 8.00 | 11.52 | 8.00 | 11.52 |
| LTE Band 28 | Low | 10.00 | 10.40 | 10.00 | 10.40 |
| | Mid | 8.00 | 9.74 | 8.00 | 9.74 |
| | High | 8.00 | 9.68 | 8.00 | 9.68 |
| LTE Band 38 | Low | 19.00 | 19.80 | 19.00 | 19.80 |
| | Mid | 21.00 | 21.00 | 21.00 | 21.00 |
| | High | 22.00 | 22.18 | 22.00 | 22.18 |
| LTE Band 40 | Low | 16.00 | 16.33 | 16.00 | 16.33 |
| | Mid | 16.00 | 16.55 | 16.00 | 16.55 |
| | High | 18.00 | 18.04 | 18.00 | 18.04 |

2 Revision History

| Rev. | Date | Changes / Comments |
|------|------------|--------------------|
| 1 | 2015-09-25 | Initial release |