

## Go/No Go Test



*Xperia™ Z2 Tablet*

*SGP521, SGP541, SGP551, SGP561*

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***SGP521 no LTE is implemented in SERPII.***

***SGP521 SGP551 all band is ONLY implemented in CMWrun***

***SGP541 all band is ONLY implemented in SERPII.***

***SGP551 no LTE is implemented in SERPII.***

***SGP561 no LTE is implemented in SERPII.***

## 1 Go/No Go Testing

This Go/No Go testing has to be carried out in two ways, with an:

- Antenna Coupler.
- Cable in shield box.

**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 SGP521, SGP541,SGP551 and SGP561

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
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

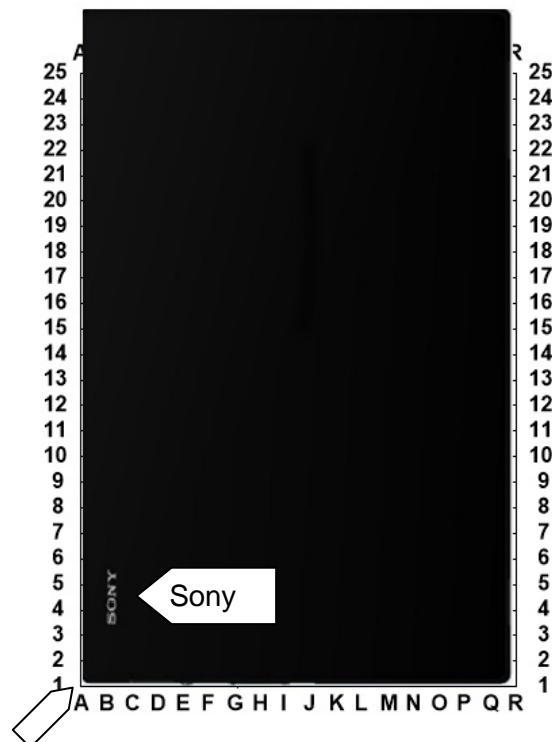
Place the phone as shown in the adjacent picture.

Position **A1**.

**Remove RF and Data through connectors if mounted**

**Do not used grid positioning holder.**

**Close lid under test.**



## 1.2 Antenna Coupler SGP521 SGP551 all bands

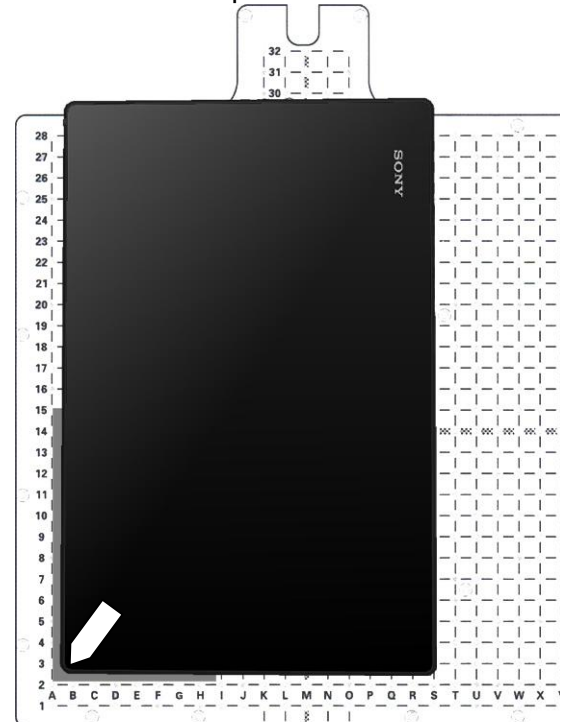
The following equipment has to be used:

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

WCDMA-850/900/1700/1900/2100

LTE-Band 1/2/3/4/5/7/8/13/17/20

Put the grid positioning holder with its reference point in position **A2** and place the phone as shown in the adjacent picture.



## Go/NoGo Testing

### 1.3 Direct Line

The following equipment has to be used:

- RF Test Cable Flexible 1M
- RF Probe
- Micro USIM Card, instrument specific.

Connect the RF Probe as shown in the adjacent picture.

**To get access to the RF connector on the PBA, refer to 1280-3186: SGP5xx Mechanical Working Instructions, Chapter 3.1!**



## 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 4 variants, SGP521, SGP541, SGP551 and SGP561 including the following bands:

### **SGP521:**

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE-Band 1/2/3/4/5/7/8/13/17/20

Not to be tested in SERP

### **SGP541:**

GSM-850/900/1800/1900

WCDMA-850/900 /1700 /1900 /2100

### **SGP551:**

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE-Band 1/2/3/4/5/7/8

Not to be tested in SERP

### **SGP561:**

WCDMA-850/900/1900/2100

CDMA-BC0/BC1

LTE-Band 4/13

Not to be tested in SERP

## Go/NoGo Testing

### 1.4 Attenuation Factors

*The attenuation values listed below in 1.4.1 - 1.4.3 is valid only when the equipment listed on the previous pages is being used!*

#### 1.4.1 Loss Values – Antenna Coupler CMU-Z11: SGP521, SGP541, SGP551 and SGP561.

Band	Channel	Attenuation SGP521		Attenuation SGP541		Attenuation SGP551	
		Rx	Tx	Rx	Tx	Rx	Tx
GSM 850	Low	24.50	21.96	24.50	21.96	24.50	21.96
	Mid	27.00	18.66	27.00	18.66	27.00	18.66
	High	25.00	18.30	25.00	18.30	25.00	18.30
GSM 900	Low	25.00	26.20	25.00	26.20	25.00	26.20
	Mid	22.50	25.16	22.50	25.16	22.50	25.16
	High	21.00	27.55	21.00	27.55	21.00	27.55
GSM 1800	Low	27.00	29.99	27.00	29.99	27.00	29.99
	Mid	22.50	28.92	22.50	28.92	22.50	28.92
	High	23.00	29.80	23.00	29.80	23.00	29.80
GSM 1900	Low	30.00	30.28	30.00	30.28	30.00	30.28
	Mid	27.00	24.37	27.00	24.37	27.00	24.37
	High	26.00	20.41	26.00	20.41	26.00	20.41
WCDMA 850	Low	20.00	18.35	20.00	18.35	20.00	18.35
	Mid	20.00	17.33	20.00	17.33	20.00	17.33
	High	20.00	17.72	20.00	17.72	20.00	17.72
WCDMA 900	Low	25.00	26.98	25.00	26.98	25.00	26.98
	Mid	25.00	23.42	25.00	23.42	25.00	23.42
	High	24.50	28.02	24.50	28.02	24.50	28.02
WCDMA 1700	Low	25.00	29.85	25.00	29.85	25.00	29.85
	Mid	25.00	25.77	25.00	25.77	25.00	25.77
	High	25.00	29.37	25.00	29.37	25.00	29.37
WCDMA 1900	Low	30.00	26.99	30.00	26.99	30.00	26.99
	Mid	30.00	23.58	30.00	23.58	30.00	23.58
	High	30.00	18.04	30.00	18.04	30.00	18.04
WCDMA 2100	Low	22.50	20.79	22.50	20.79	22.50	20.79
	Mid	19.50	21.02	19.50	21.02	19.50	21.02
	High	19.50	27.59	19.50	27.59	19.50	27.59

## Go/NoGo Testing: Attenuation Factors

Band	Channel	Attenuation SGP561	
		Rx	Tx
WCDMA 850	Low	20.00	18.35
	Mid	20.00	17.33
	High	20.00	17.72
WCDMA 900	Low	25.00	26.98
	Mid	25.00	23.42
	High	24.50	28.02
WCDMA 1900	Low	30.00	26.99
	Mid	30.00	23.58
	High	30.00	18.04
WCDMA 2100	Low	22.50	16.79
	Mid	19.50	15.02
	High	19.50	21.59
CDMA BC0	Low	29.00	14.50
	Mid	29.00	16.00
	High	29.00	20.00
CDMA BC1	Low	29.00	28.00
	Mid	29.00	28.00
	High	29.00	20.00



## Go/NoGo Testing: Attenuation Factors

### 1.4.2 Loss Values – Antenna Coupler CMW-Z11, SGP521 and SGP551

Band	Channel	Attenuation SGP521		Attenuation SGP551	
		Rx	Tx	Rx	Tx
GSM 850	Low	18.00	18.70	18.00	18.70
	Mid	17.00	20.40	17.00	20.40
	High	19.00	18.50	19.00	18.50
GSM 900	Low	19.00	16.50	19.00	16.50
	Mid	24.00	18.20	24.00	18.20
	High	26.00	21.60	26.00	21.60
GSM 1800	Low	27.00	19.50	27.00	19.50
	Mid	20.00	22.10	20.00	22.10
	High	16.00	25.00	16.00	25.00
GSM 1900	Low	17.00	29.00	17.00	29.00
	Mid	20.00	18.10	20.00	18.10
	High	20.00	20.80	20.00	20.80
WCDMA 850	Low	19.00	18.50	19.00	18.50
	Mid	19.00	21.50	19.00	21.50
	High	20.00	21.60	20.00	21.60
WCDMA 900	Low	22.00	14.00	22.00	14.00
	Mid	26.00	15.50	26.00	15.50
	High	28.00	19.00	28.00	19.00
WCDMA 1700	Low	22.00	18.40	22.00	18.40
	Mid	22.00	18.40	22.00	18.40
	High	19.00	21.10	19.00	21.10
WCDMA 1900	Low	18.00	24.40	18.00	24.40
	Mid	22.00	20.00	22.00	20.00
	High	24.00	19.00	24.00	19.00
WCDMA 2100	Low	22.00	18.00	22.00	18.00
	Mid	21.00	17.10	21.00	17.10
	High	22.00	19.50	22.00	19.50
LTE BAND 1	Low	20.00	19.10	20.00	21.10
	Mid	19.00	20.00	19.00	21.00
	High	19.00	22.00	19.00	24.00

## Go/NoGo Testing: Attenuation Factors

LTE BAND 2	Low	17.00	25.50	17.00	27.50
	Mid	20.00	22.00	20.00	22.00
	High	21.00	20.60	21.00	21.60
LTE BAND 3	Low	27.00	20.00	27.00	20.00
	Mid	23.00	21.50	23.00	22.50
	High	19.00	25.70	19.00	28.70
LTE BAND 4	Low	20.00	19.70	20.00	22.70
	Mid	20.00	20.50	20.00	23.50
	High	17.00	22.50	17.00	25.50
LTE BAND 5	Low	16.00	21.00	16.00	21.00
	Mid	16.00	23.00	16.00	23.00
	High	16.00	24.00	16.00	24.00
LTE BAND 7	Low	18.00	19.70	18.00	19.70
	Mid	17.00	18.50	17.00	18.50
	High	18.00	18.40	18.00	18.40
LTE BAND 8	Low	22.00	16.00	22.00	16.00
	Mid	24.00	17.40	24.00	17.40
	High	26.00	20.10	26.00	20.10
LTE BAND 13	Low	18.00	13.00		
	Mid	18.00	13.00		
	High	18.00	13.00		
LTE BAND 17	Low	17.00	20.20		
	Mid	17.00	19.50		
	High	17.00	19.00		
LTE BAND 20	Low	13.00	22.40		
	Mid	14.00	22.60		
	High	16.00	20.00		

## Go/NoGo Testing: Attenuation Factors

### 1.4.3 Loss Values – Direct Line

Band	Channel	Attenuation	
		Rx	Tx
GSM 850	All	1.0	1.0
GSM 900	All	1.0	1.0
GSM 1800	All	2.3	2.3
GSM 1900	All	2.3	2.3
WCDMA 850	All	1.3	1.3
WCDMA 900	All	1.3	1.3
WCDMA 1700	All	1.3	1.3
WCDMA 1900	All	1.5	1.5
WCDMA 2100	All	2.5	2.5
CDMA BC0	All	1.0	1.0
CDMA BC1	All	1.5	1.5

## 2 Revision History

Rev.	Date	Changes / Comments
1	2014-Mar-19	Initial release
2	2014-Apr-01	Added SGP551 LTE test
3	2014-Jul-25	Added SGP561 to SERP