

Go/No Go Test



Xperia™ Z3
D6603, D6616, D6643, D6653, D6646

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D6603 no LTE is implemented in SERP II.

D6616 no LTE is implemented in SERP II.

D6643 no LTE is implemented in SERP II.

D6646 no LTE is implemented in SERP II.

D6653 no LTE is implemented in SERP II.

1 Go/No Go Testing

This Go/No Go testing has to be carried out 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 D6603, D6616, D6643, D6646 and D6653 no LTE

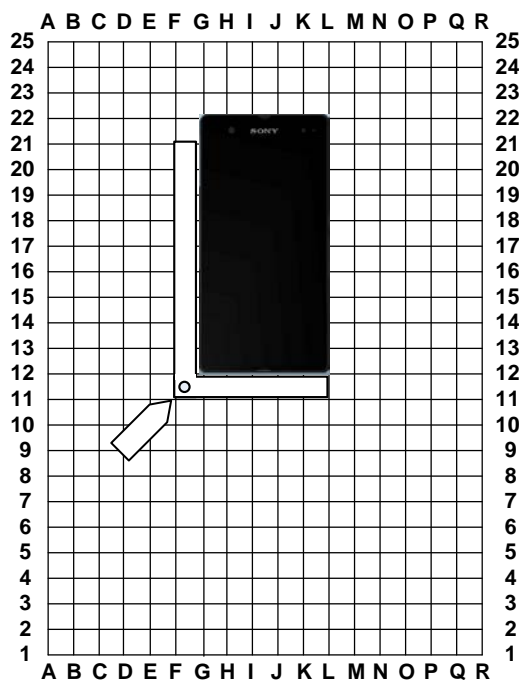
The following equipment has to be used:

- 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

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 D6603, D6616, D6643, D6646, D6653 all bands

The following equipment has to be used:

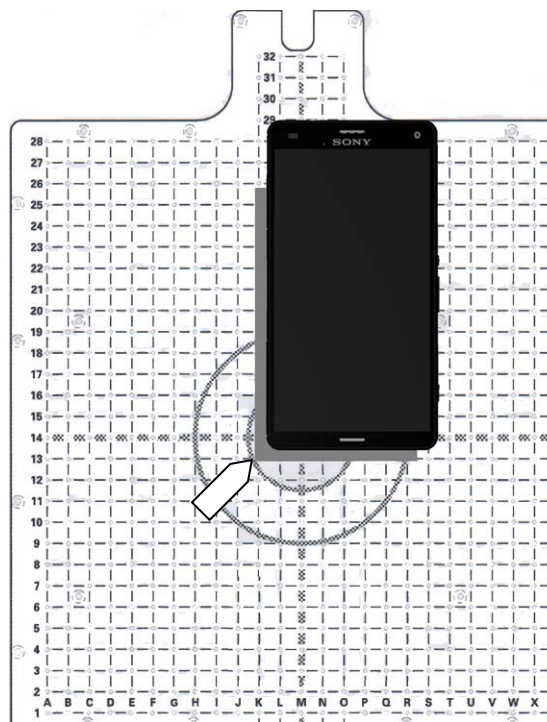
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box
 - Rohde & Schwartz RF Coupler CMW-Z11
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Nano USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE-BAND 1/2/3/4/5/7/8/13/17/20/28/40

Put the grid positioning holder with its reference point in position **K13** 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 5 versions, D6603, D6616, D6643 ,D6646 and D6653, including the following bands:

D6603:

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

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

not to be tested in SERPII, only in CMWrun.

D6616:

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE-2/4

not to be tested in SERPII, only in CMWrun.

D6643:

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

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

not to be tested in SERPII, only in CMWrun.

D6646:

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE-2/4

not to be tested in SERPII, only in CMWrun.

D6653:

GSM-850/900/1800/1900

WCDMA-850/ 900/1900/2100

LTE-1/3/5/7/8/28/40

not to be tested in SERPII, only in CMWrun.

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

Band	Channel	Attenuation D6603		Attenuation D6653	
		Rx	Tx	Rx	Tx
GSM 850	Low	10.00	12.09	10.00	12.09
	Mid	8.50	10.21	8.50	10.21
	High	7.00	8.58	7.00	8.58
GSM 900	Low	7.00	8.90	7.00	8.90
	Mid	8.00	7.19	8.00	7.19
	High	10.00	6.79	10.00	6.79
GSM 1800	Low	13.00	15.97	13.00	15.97
	Mid	9.50	15.13	9.50	15.13
	High	9.00	14.68	9.00	14.68
GSM 1900	Low	12.00	8.62	12.00	8.62
	Mid	14.00	9.12	14.00	9.12
	High	15.00	9.86	15.00	9.86
WCDMA 850	Low	7.00	10.03	7.00	10.03
	Mid	6.00	9.10	6.00	9.10
	High	6.00	8.27	6.00	8.27
WCDMA 900	Low	6.00	8.26	6.00	8.26
	Mid	6.00	7.91	6.00	7.91
	High	7.50	7.59	7.50	7.59
WCDMA 1700	Low	15.00	15.74		
	Mid	15.50	16.27		
	High	18.00	16.59		
WCDMA 1900	Low	11.00	9.54	11.00	9.54
	Mid	12.50	9.26	12.50	9.26
	High	13.00	10.55	13.00	10.55
WCDMA 2100	Low	15.00	13.31	15.00	13.31
	Mid	16.50	13.09	16.50	13.09
	High	18.00	12.38	18.00	12.38

Go/NoGo Testing

Band	Channel	Attenuation D6616 and D6646		Attenuation D6643	
		Rx	Tx	Rx	Tx
GSM 850	Low	11.00	13.18	10.00	12.09
	Mid	10.50	12.48	8.50	10.21
	High	9.00	12.43	7.00	8.58
GSM 900	Low	9.00	12.64	7.00	8.90
	Mid	9.00	8.66	8.00	7.19
	High	13.00	6.64	10.00	6.79
GSM 1800	Low	14.00	13.69	13.00	15.97
	Mid	12.00	15.21	9.50	15.13
	High	10.00	15.19	9.00	14.68
GSM 1900	Low	10.00	10.03	12.00	8.62
	Mid	12.00	9.36	14.00	9.12
	High	12.00	9.45	15.00	9.86
WCDMA 850	Low	9.50	10.94	7.00	10.03
	Mid	9.00	10.92	6.00	9.10
	High	8.00	10.99	6.00	8.27
WCDMA 900	Low	8.50	8.46	6.00	8.26
	Mid	9.00	8.81	6.00	7.91
	High	12.50	8.42	7.50	7.59
WCDMA 1700	Low	16.50	14.51	15.00	15.74
	Mid	18.00	15.14	15.50	16.27
	High	18.50	15.66	18.00	16.59
WCDMA 1900	Low	10.50	11.22	11.00	9.54
	Mid	10.00	10.22	12.50	9.26
	High	11.00	10.05	13.00	10.55
WCDMA 2100	Low	13.50	13.18	15.00	13.31
	Mid	16.50	14.44	16.50	13.09
	High	17.00	14.17	18.00	12.38

Go/NoGo Testing

1.3.2 Loss Values – Antenna Coupler CMW-Z11

Band	Channel	Attenuation D6603		Attenuation D6653	
		Rx	Tx	Rx	Tx
GSM 850	Low	10.00	8.8	10.00	8.70
	Mid	10.00	9.0	10.00	8.80
	High	9.00	9.5	9.00	9.20
GSM 900	Low	10.00	8.7	10.00	8.30
	Mid	13.00	6.3	12.00	5.90
	High	12.00	6.8	12.00	6.30
GSM 1800	Low	13.00	10.0	13.00	10.00
	Mid	14.00	12.2	8.00	12.60
	High	13.00	12.0	13.00	11.70
GSM 1900	Low	12.00	11.5	11.00	11.20
	Mid	8.00	11.5	13.00	11.50
	High	13.00	10.2	13.00	10.10
WCDMA 850	Low	11.00	6.3	11.00	6.30
	Mid	11.00	7.0	11.00	7.00
	High	11.00	8.0	10.00	7.90
WCDMA 900	Low	12.00	6.4	17.00	9.80
	Mid	14.00	6.0	18.00	9.90
	High	13.00	5.8	17.00	9.60
WCDMA 1700	Low	14.00	10.6		
	Mid	16.00	12.2		
	High	14.00	13.1		
WCDMA 1900	Low	13.00	13.2	13.00	12.20
	Mid	14.00	12.3	14.00	11.40
	High	16.00	10.2	15.00	9.80
WCDMA 2100	Low	14.00	9.1	12.00	7.80
	Mid	14.00	11.0	14.00	9.40
	High	12.00	13.2	12.00	11.80
LTE Band 1	Low	11.00	10.6	10.00	10.90
	Mid	14.00	11.0	12.00	11.40
	High	11.00	13.7	9.00	13.80

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Band	Channel	Attenuation D6603		Attenuation D6653	
		Rx	Tx	Rx	Tx
LTE Band 2	Low	11.00	13.9		
	Mid	14.00	12.3		
	High	15.00	11.4		
LTE Band3	Low	13.00	12.0	13.00	11.80
	Mid	14.00	13.7	14.00	13.60
	High	13.00	13.3	13.00	12.90
LTE Band 4	Low	11.00	12.0		
	Mid	13.00	13.5		
	High	13.00	14.4		
LTE Band 5	Low	9.00	8.5	9.00	8.20
	Mid	9.00	9.1	8.00	8.80
	High	8.00	9.7	8.00	9.40
LTE Band 7	Low	13.00	12.2	12.00	12.60
	Mid	14.00	12.0	14.00	12.30
	High	17.00	12.4	16.00	12.40
LTE Band 8	Low	11.00	8.9	10.00	8.70
	Mid	13.00	8.6	13.00	8.10
	High	12.00	8.6	13.00	7.80
LTE Band 13	Low	10.00	10.00		
	Mid	10.00	10.00		
	High	10.00	10.00		
LTE Band 17	Low	8.00	7.9		
	Mid	8.00	7.9		
	High	8.00	7.9		
LTE Band 20	Low	7.00	8.8		
	Mid	7.00	9.6		
	High	7.00	9.8		
LTE Band 28	Low			8.10	11.00
	Mid			8.30	9.00
	High			9.30	7.00
LTE Band 40	Low			11.00	12.00
	Mid			11.00	11.00
	High			11.30	10.00

Go/NoGo Testing

Band	Channel	Attenuation D6616 and D6646		Attenuation D6643	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	9.2	10.00	8.80
	Mid	9.00	10.2	10.00	9.00
	High	8.00	11.8	9.00	9.50
GSM 900	Low	10.00	10.4	10.00	13.70
	Mid	12.00	7.2	13.00	11.30
	High	13.00	5.8	12.00	11.80
GSM 1800	Low	12.00	11.4	13.00	10.00
	Mid	15.00	11.3	7.00	12.20
	High	14.00	11.5	13.00	12.00
GSM 1900	Low	12.00	12.3	12.00	11.50
	Mid	13.00	13.2	8.00	11.50
	High	12.00	11.8	13.00	10.20
WCDMA 850	Low	12.00	7.4	11.00	10.30
	Mid	10.00	8.2	11.00	11.00
	High	9.00	9.4	11.00	12.00
WCDMA 900	Low	12.00	7.7	12.00	12.40
	Mid	14.00	7.2	14.00	12.00
	High	15.00	6.6	13.00	11.80
WCDMA 1700	Low	16.00	10.4	14.00	10.60
	Mid	17.00	11.2	16.00	12.20
	High	14.00	11.0	14.00	13.10
WCDMA 1900	Low	15.00	13.4	13.00	13.20
	Mid	15.00	13.1	14.00	12.30
	High	15.00	11.4	16.00	10.20
WCDMA 2100	Low	16.00	8.2	14.00	8.20
	Mid	16.00	9.3	14.00	7.90
	High	14.00	10.6	12.00	7.20
LTE Band 1	Low			11.00	10.60
	Mid			14.00	11.00
	High			11.00	8.70
LTE Band 2	Low	13.00	14.7	11.00	13.90
	Mid	13.00	14.2	14.00	12.30
	High	12.00	13.3	15.00	11.40
LTE Band 3	Low			13.00	12.00
	Mid			14.00	13.70
	High			13.00	10.00

Go/NoGo Testing

Band	Channel	Attenuation D6616		Attenuation D6643	
		Rx	Tx	Rx	Tx
LTE Band 4	Low	12.00	12.0	11.00	12.00
	Mid	14.00	12.3	13.00	13.50
	High	12.00	12.8	13.00	14.40
LTE Band 5	Low			9.00	11.50
	Mid			9.00	12.10
	High			8.00	12.70
LTE Band 7	Low			13.00	12.20
	Mid			14.00	12.00
	High			17.00	12.40
LTE Band 8	Low			11.00	13.90
	Mid			13.00	13.60
	High			12.00	13.60
LTE Band 17	Low			8.00	7.90
	Mid			8.00	7.90
	High			8.00	7.90
LTE Band 20	Low			7.00	15.80
	Mid			7.00	16.80
	High			7.00	16.8

2 Revision History

Rev.	Date	Changes / Comments
1	2014-09-05	Initial release
2	2014-09-18	Added D6603 D6653 to CMWrun
3	2014-10-07	Added D6616 and D6643 to SERPII. Attenuation values for D6653 changed.
4	2014-10-29	Added D6616 to CMWrun.
5	2014-12-11	Added D6643 to CMWrun.
6	2015-01-13	Removed D6616 LTE Band12.
7	2015-09-30	D6646 added