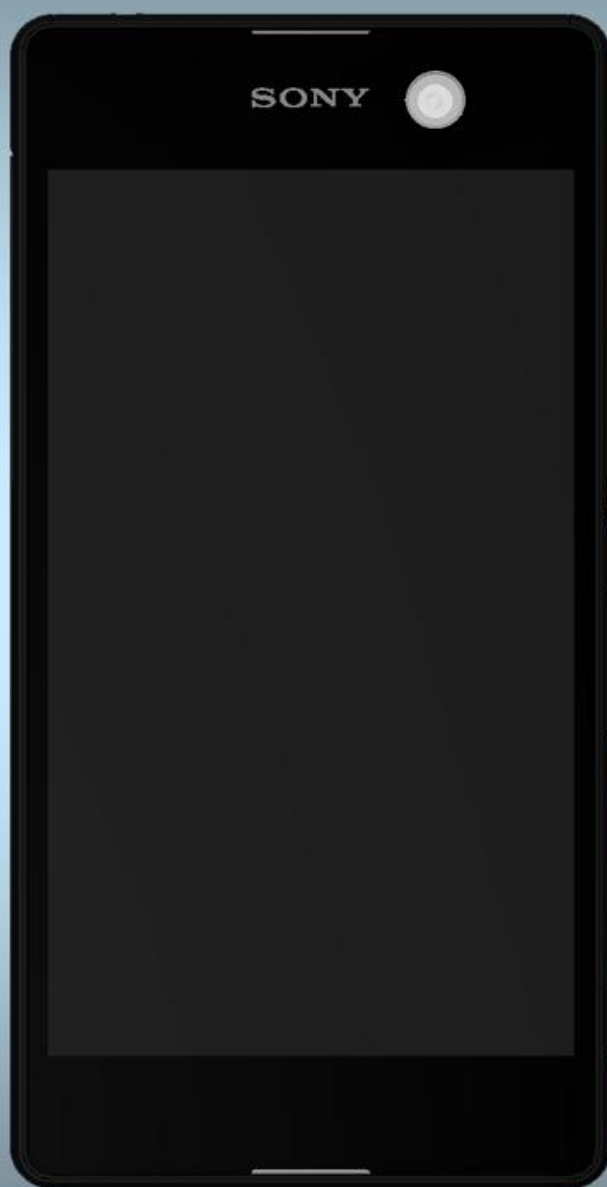


Go/No Go Test



Xperia™ M5

E5603, E5606, E5633, E5643, E5653, E5663

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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 E5603, E5606, E5633, E5643, E5653 and E5663

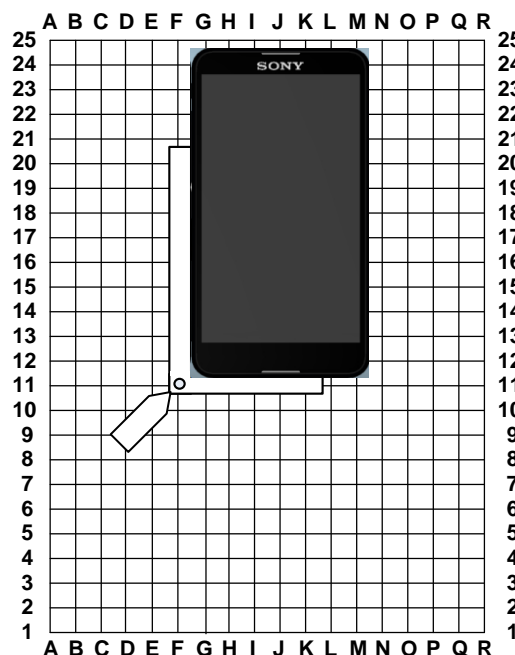
The following equipment has to be used:

- 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-850/900/1700/1900/2100

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 E5603, E5606, E5633, E5643, E5653 and E5663 all bands

The following equipment has to be used:

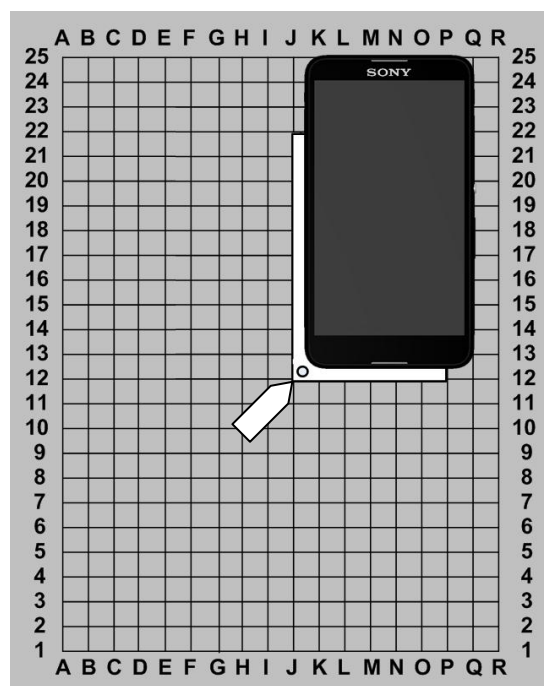
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMW-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Nano USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE BAND-1/2/3/4/5/7/8/12/13/17/20/28/40

Put the grid positioning holder with its reference point in position **J12** 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 6 variants E5603, E5606, E5633, E5643, E5653 and E5663 including the following bands:

E5603 and E5633:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 1 / 3 / 5 / 7 / 8 / 20

E5606:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1700 / 1900 / 2100

LTE- 2 / 4 / 5 / 7 / 12 / 13 / 17 / 28

E5643:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 2 / 4 / 5 / 7 / 28

E5653 and E5663:

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

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

Go/NoGo Testing

1.3 Attenuation Factors

The attenuation values listed below in 1.3.1 to 1.3.4 is valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler CMU-Z11, E5606, E5603 and E5633

Band	Channel	Attenuation E5606		Attenuation E5603 and E5633	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.50	11.64	9.50	11.01
	Mid	9.50	12.38	7.50	11.71
	High	8.00	13.59	7.00	12.48
GSM 900	Low	8.00	9.10	8.00	9.07
	Mid	8.50	9.55	8.50	9.45
	High	11.00	8.41	12.00	8.23
GSM 1800	Low	15.00	17.07	15.00	16.67
	Mid	12.00	15.95	13.00	15.71
	High	15.00	15.70	15.00	15.66
GSM 1900	Low	18.00	13.20	18.00	13.93
	Mid	21.00	16.33	21.00	16.49
	High	20.00	19.29	20.00	19.00
WCDMA 850	Low	8.00	9.46	9.00	9.76
	Mid	8.00	9.03	9.00	9.25
	High	9.00	8.72	9.50	8.81
WCDMA 900	Low	10.50	8.37	10.50	7.78
	Mid	10.00	7.13	9.50	6.75
	High	11.50	6.80	11.50	6.40
WCDMA 1700	Low	21.00	17.11		
	Mid	21.00	16.47		
	High	21.00	15.45		
WCDMA 1900	Low	22.50	12.38	20.50	12.61
	Mid	22.50	14.12	22.50	14.54
	High	21.50	17.82	21.00	19.11
WCDMA 2100	Low	21.00	18.58	20.00	20.53
	Mid	20.00	19.98	20.00	20.70
	High	19.50	20.23	19.50	21.08

Go/NoGo Testing

1.3.2 Loss Values – Antenna Coupler CMU-Z11, E5643, E5653 and E5663

Band	Channel	Attenuation E5643		Attenuation E5653 and E5663	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.50	11.01	9.50	11.01
	Mid	7.50	11.71	7.50	11.71
	High	7.00	12.48	7.00	12.48
GSM 900	Low	8.00	9.07	8.00	9.07
	Mid	8.50	9.45	8.50	9.45
	High	12.00	8.23	12.00	8.23
GSM 1800	Low	15.00	16.67	15.00	16.67
	Mid	13.00	15.71	13.00	15.71
	High	15.00	15.66	15.00	15.66
GSM 1900	Low	18.00	13.93	18.00	13.93
	Mid	21.00	16.49	21.00	16.49
	High	20.00	19.00	20.00	19.00
WCDMA 850	Low	9.00	9.76	9.00	9.76
	Mid	9.00	9.25	9.00	9.25
	High	9.50	8.81	9.50	8.81
WCDMA 900	Low	10.50	7.78	10.50	7.78
	Mid	9.50	6.75	9.50	6.75
	High	11.50	6.40	11.50	6.40
WCDMA 1900	Low	20.50	12.61	20.50	12.61
	Mid	22.50	14.54	22.50	14.54
	High	21.00	19.11	21.00	16.11
WCDMA 2100	Low	20.00	20.53	20.00	17.53
	Mid	20.00	20.70	20.00	18.70
	High	19.50	21.08	19.50	19.08

Go/NoGo Testing

1.3.3 Loss Values – Antenna Coupler CMW-Z11, E5653, E5663 and E5606

Band	Channel	Attenuation E5653 and E5663		Attenuation E5606	
		Rx	Tx	Rx	Tx
GSM 850	Low	10.00	9.65	10.40	9.45
	Mid	9.00	11.23	8.80	11.08
	High	8.00	12.34	8.10	12.26
GSM 900	Low	13.00	9.06	12.80	9.89
	Mid	14.00	9.44	14.30	9.24
	High	16.00	11.78	15.60	11.53
GSM 1800	Low	18.00	14.52	16.30	13.53
	Mid	16.00	14.79	15.70	13.85
	High	18.00	16.46	15.90	15.19
GSM 1900	Low	16.00	17.57	15.10	17.13
	Mid	15.00	18.80	14.00	16.71
	High	16.00	17.21	15.30	15.96
WCDMA 850	Low	13.00	7.90	13.00	7.79
	Mid	14.00	8.80	14.00	8.74
	High	14.00	10.00	13.00	10.00
WCDMA 900	Low	17.00	8.70	18.00	8.67
	Mid	19.00	8.20	19.00	8.10
	High	19.00	9.40	19.00	9.25
WCDMA 1700	Low			19.00	11.84
	Mid			20.00	11.83
	High			18.00	12.21
WCDMA 1900	Low	20.00	16.80	19.00	15.70
	Mid	21.00	15.50	19.00	18.80
	High	21.00	15.30	20.00	14.83
WCDMA 2100	Low	20.00	15.00	19.00	14.40
	Mid	19.00	15.30	18.00	14.20
	High	18.00	15.70	18.00	14.64
LTE Band 1	Low	16.00	15.40		
	Mid	19.00	15.30		
	High	15.00	16.30		
LTE Band 2	Low			16.00	16.60
	Mid			19.00	18.80
	High			17.00	15.70

Go/NoGo Testing

Band	Channel	Attenuation E5653 and E5663		Attenuation E5606	
		Rx	Tx	Rx	Tx
LTE Band 3	Low	18.00	13.70		
	Mid	19.00	14.00		
	High	19.00	15.40		
LTE Band 4	Low			15.00	13.15
	Mid			17.00	13.26
	High			16.00	13.70
LTE Band 5	Low	10.00	8.90	10.00	8.80
	Mid	10.00	9.80	10.00	9.60
	High	10.00	10.60	10.00	10.40
LTE Band 7	Low	25.00	27.00	25.00	31.60
	Mid	24.00	29.40	24.00	32.30
	High	25.00	30.50	24.00	31.10
LTE Band 8	Low	14.00	9.60		
	Mid	15.00	9.20		
	High	15.00	9.90		
LTE Band 12	Low			8.00	8.20
	Mid			9.00	8.21
	High			9.00	5.05
LTE Band 13	Low			11.00	8.10
	Mid			11.00	8.10
	High			11.00	8.10
LTE Band 17	Low			9.00	8.30
	Mid			9.00	8.40
	High			9.00	8.40
LTE Band 28	Low	10.00	10.00	10.00	5.05
	Mid	9.00	9.00	9.00	8.70
	High	7.00	7.00	8.00	10.40
LTE Band 40	Low	16.00	15.40		
	Mid	16.00	15.60		
	High	17.00	16.30		

Go/NoGo Testing

1.3.4 Loss Values – Antenna Coupler CMW-Z11, E5603, E5633 and E5643

Band	Channel	Attenuation E5603 and E5633		Attenuation E5643	
		Rx	Tx	Rx	Tx
GSM 850	Low	10.00	9.52	11.00	9.87
	Mid	8.50	10.98	9.00	11.28
	High	7.80	12.13	8.00	12.44
GSM 900	Low	12.50	9.65	14.00	10.21
	Mid	14.00	9.54	16.00	10.00
	High	15.30	11.81	17.00	12.36
GSM 1800	Low	15.40	13.73	16.00	14.80
	Mid	14.80	13.66	15.00	15.29
	High	16.00	14.70	16.00	15.90
GSM 1900	Low	14.20	16.50	16.00	17.97
	Mid	13.00	17.10	16.00	17.88
	High	14.00	16.17	17.00	16.86
WCDMA 850	Low	13.00	7.70	13.00	8.10
	Mid	13.00	8.60	14.00	8.70
	High	13.00	9.70	13.00	9.80
WCDMA 900	Low	18.00	8.80	18.00	8.80
	Mid	18.00	8.30	19.00	8.30
	High	18.00	9.70	19.00	9.40
WCDMA 1700	Low				
	Mid				
	High				
WCDMA 1900	Low	19.00	16.00	20.00	15.54
	Mid	19.00	15.40	20.00	15.26
	High	20.00	14.90	20.00	15.27
WCDMA 2100	Low	19.00	14.70	20.00	14.80
	Mid	19.00	15.70	20.00	15.00
	High	19.00	14.80	18.00	15.80
LTE Band 1	Low	16.00	15.50		
	Mid	19.00	15.70		
	High	15.00	15.70		
LTE Band 2	Low			16.00	16.70
	Mid			20.00	15.00
	High			17.00	16.00

Go/NoGo Testing

Band	Channel	Attenuation E5603 and E5633		Attenuation E5643	
		Rx	Tx	Rx	Tx
LTE Band 3	Low	16.00	14.00		
	Mid	18.00	14.00		
	High	19.00	15.00		
LTE Band 4	Low			15.00	14.10
	Mid			18.00	14.10
	High			16.00	14.40
LTE Band 5	Low	9.00	8.80	10.00	9.00
	Mid	9.00	9.70	10.00	9.90
	High	9.00	10.50	10.00	10.70
LTE Band 7	Low	23.00	32.90	24.00	27.70
	Mid	22.00	32.70	24.00	32.70
	High	21.00	31.50	26.00	37.60
LTE Band 8	Low	14.00	9.50		
	Mid	15.00	9.20		
	High	15.00	10.00		
LTE Band 20	Low	8.00	9.50		
	Mid	8.00	10.50		
	High	8.00	10.70		
LTE Band 28	Low			10.00	7.40
	Mid			9.00	8.30
	High			8.00	9.80

2 Revision History

Rev.	Date	Changes / Comments
1	2015-09-03	Initial release