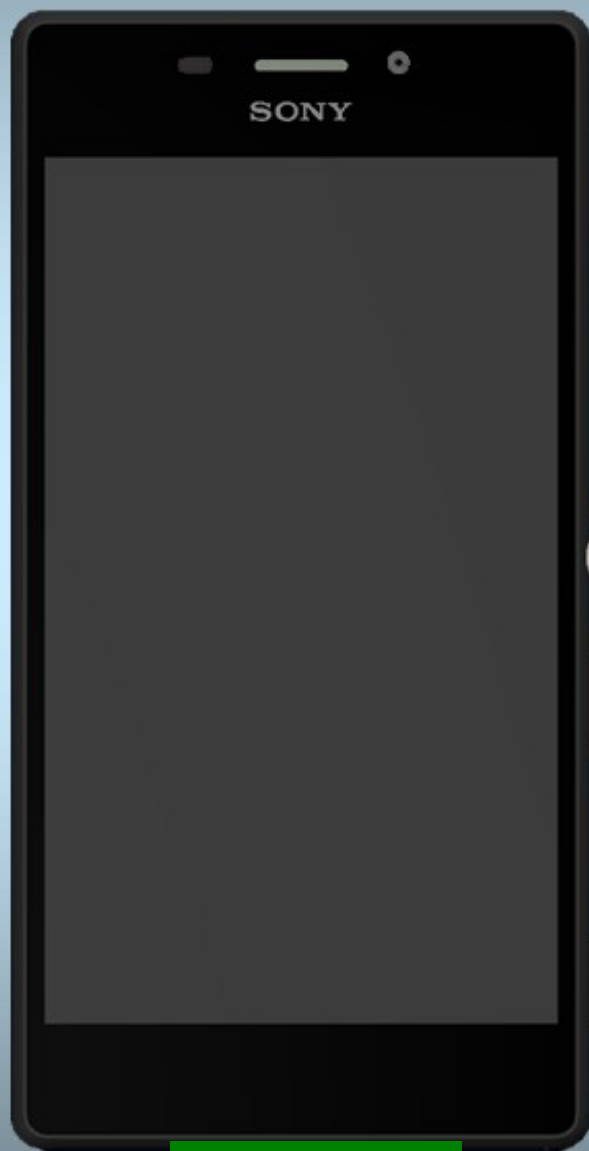


Go/No Go Test



Xperia M2

D2302,D2303,D2305,D2306,S50h

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D2302 and S50h is ONLY implemented in SERPII.

D2303 no LTE is implemented in SERPII.

D2305 is ONLY implemented in SERPII.

D2306 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 D2302, D2303, D2305, D2306 and S50h no LTE

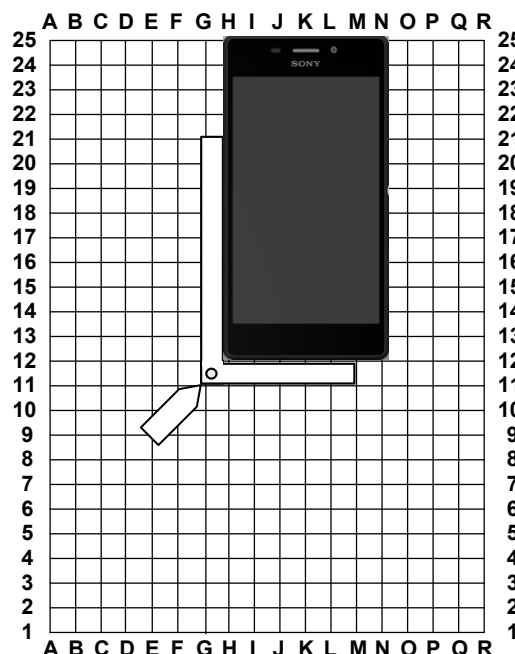
The following equipment has to be used:

- 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 **G11** and place the phone as shown in the adjacent



1.2 Antenna Coupler D2303, D2306 all bands

The following equipment has to be used:

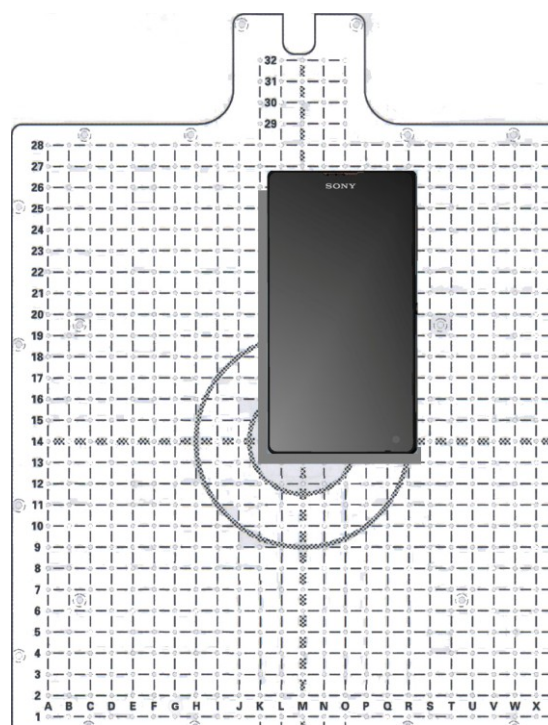
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box
 - Rohde & Schwartz RF Coupler CMW-Z11
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

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

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 variants, D2302, D2303, D2305, D2306 and S50h including the following bands:

D2302 and S50h:

GSM-850 / 900 /1800 /1900

WCDMA-850 / 900 /1900 / 2100

D2303:

GSM-850 / 900 /1800 /1900

WCDMA-850 / 900 / 2100

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

Not to be tested in SERP only in CMWrun

D2305:

GSM-850 / 900 /1800 /1900

WCDMA-850 / 900 /1900 / 2100

D2306:

GSM-850 / 900 /1800 /1900

WCDMA-850 / 1700/1900 / 2100

LTE-4/7/17

Not to be tested in SERP only in CMWrun

Go/NoGo Testing

1.3 Attenuation Factors

The attenuation values listed below in 1.3.1 to 1.3.3 is valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler CMU-Z11, D2302, D2305 and S50h

Band	Channel	Attenuation D2302 and S50h		Attenuation D2305	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	12.02	9.00	12.02
	Mid	7.50	10.98	7.50	10.98
	High	5.50	10.51	5.50	10.51
GSM 900	Low	4.00	4.94	4.00	4.94
	Mid	5.00	6.58	5.00	6.58
	High	4.00	5.84	4.00	5.84
GSM 1800	Low	15.00	17.07	15.00	17.07
	Mid	12.00	16.92	12.00	16.92
	High	12.00	16.76	12.00	16.76
GSM 1900	Low	11.00	10.06	11.00	10.06
	Mid	11.00	10.12	11.00	10.12
	High	12.00	10.01	12.00	10.01
WCDMA 850	Low	10.00	11.49	10.00	11.49
	Mid	9.50	12.46	9.50	12.46
	High	8.00	10.94	8.00	10.94
WCDMA 900	Low	8.00	8.04	8.00	8.04
	Mid	8.00	7.12	8.00	7.12
	High	8.50	7.13	8.50	7.13
WCDMA 1900	Low	11.00	12.19	11.00	12.19
	Mid	11.00	10.12	11.00	10.12
	High	12.00	8.99	12.00	8.99
WCDMA 2100	Low	13.00	9.53	13.00	9.53
	Mid	16.00	10.10	16.00	10.10
	High	15.50	12.24	15.50	12.24

Go/NoGo Testing

1.3.2 Loss Values – Antenna Coupler CMU-Z11, D2303 and D2306

Band	Channel	Attenuation D2303		Attenuation D2306	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	12.02	9.00	12.02
	Mid	7.50	10.98	7.50	10.98
	High	5.50	10.51	5.50	10.51
GSM 900	Low	4.00	4.94	4.00	4.94
	Mid	5.00	6.58	5.00	6.58
	High	4.00	5.84	4.00	5.84
GSM 1800	Low	15.00	17.07	15.00	17.07
	Mid	12.00	16.92	12.00	16.92
	High	12.00	16.76	12.00	16.76
GSM 1900	Low	11.00	10.06	11.00	10.06
	Mid	11.00	10.12	11.00	10.12
	High	12.00	10.01	12.00	10.01
WCDMA 850	Low	10.00	11.49	10.00	11.49
	Mid	9.50	12.46	9.50	12.46
	High	8.00	10.94	8.00	10.94
WCDMA 900	Low	8.00	8.04		
	Mid	8.00	7.12		
	High	8.50	7.13		
WCDMA 1700	Low			16.00	14.95
	Mid			16.50	14.53
	High			17.00	14.39
WCDMA 1900	Low			11.00	12.19
	Mid			11.00	10.12
	High			12.00	8.99
WCDMA 2100	Low	13.00	9.53	13.00	9.53
	Mid	16.00	10.10	16.00	10.10
	High	15.50	12.24	15.50	12.24

Go/NoGo Testing

1.3.3 Loss Values – Antenna Coupler CMW-Z11, D2303 and D2306

Band	Channel	Attenuation D2303		Attenuation D2306	
		Rx	Tx	Rx	Tx
GSM 850	Low	7.00	6.40	11.00	6.60
	Mid	7.00	7.60	11.00	7.60
	High	7.00	9.00	12.00	9.20
GSM 900	Low	8.00	8.00	12.00	11.20
	Mid	14.00	6.00	18.00	10.10
	High	14.00	8.00	20.00	12.20
GSM 1800	Low	32.00	18.20	25.00	18.20
	Mid	23.00	22.30	17.00	18.70
	High	16.00	26.80	14.00	21.00
GSM 1900	Low	15.00	16.00	14.00	13.60
	Mid	16.00	14.40	17.00	12.40
	High	14.00	13.70	17.00	12.10
WCDMA 850	Low	9.00	7.20	9.00	7.60
	Mid	9.00	7.10	9.00	8.20
	High	9.00	7.60	9.00	7.60
WCDMA 900	Low	12.00	6.00		
	Mid	14.00	6.00		
	High	16.00	6.70		
WCDMA 1700	Low			15.00	19.6
	Mid			14.00	21.00
	High			11.00	21.20
WCDMA 1900	Low			12.00	17.00
	Mid			14.00	15.10
	High			14.00	14.10
WCDMA 2100	Low	16.00	14.60	15.00	11.00
	Mid	16.00	17.50	14.00	13.40
	High	14.00	15.50	10.00	19.30
LTE BAND 1	Low	14.00	15.40		
	Mid	16.00	17.50		
	High	11.00	16.50		
LTE BAND 3	Low	29.00	20.00		
	Mid	18.00	21.60		
	High	14.00	21.60		

Go/NoGo Testing

Band	Channel	Attenuation D2303		Attenuation D2306	
		Rx	Tx	Rx	Tx
LTE BAND 4	Low			16.00	15.50
	Mid			16.00	16.00
	High			14.00	16.00
LTE BAND 5	Low	6.00	7.90		
	Mid	6.00	8.20		
	High	6.00	8.30		
LTE BAND 7	Low	18.00	16.40	23.00	23.00
	Mid	22.00	18.40	24.00	28.60
	High	20.00	28.60	23.00	33.10
LTE BAND 8	Low	9.00	7.00		
	Mid	11.00	7.20		
	High	14.00	7.80		
LTE BAND 17	Low			10.00	6.40
	Mid			10.00	6.40
	High			9.00	6.40
LTE BAND 20	Low	6.00	8.00		
	Mid	4.00	8.20		
	High	6.00	8.50		

2 Revision History

Rev.	Date	Changes / Comments
1	2014-04-18	Initial release
2	2014-05-01	D2303 and D2306 added
3	2014-05-13	D2303 and D2306 LTE test added