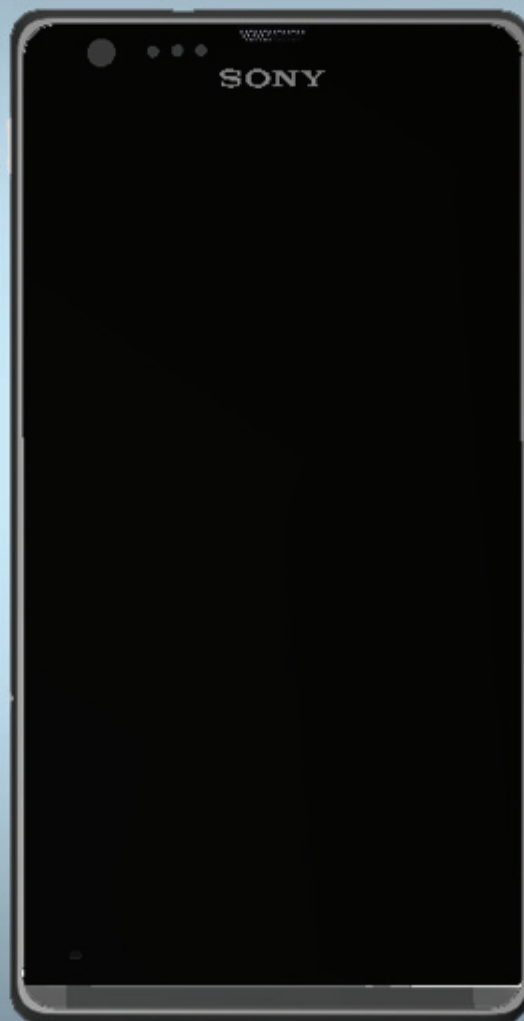


Go/No Go Test



Xperia™ SP
*C5302/C5303/C5306/M35c/
M35h and M35t*

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C5302, M35h and M35c all band is ONLY implemented in SERPII.

C5303 and C5306 no LTE is implemented in SERPII.

C5303, C5306 all band is ONLY implemented in CMWrun

M35t TD-SCDMA is ONLY implemented in Sony Lector

M35t GSM and WCDMA band 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 C5302, C5303, C5306, M35h, M35c and M35t

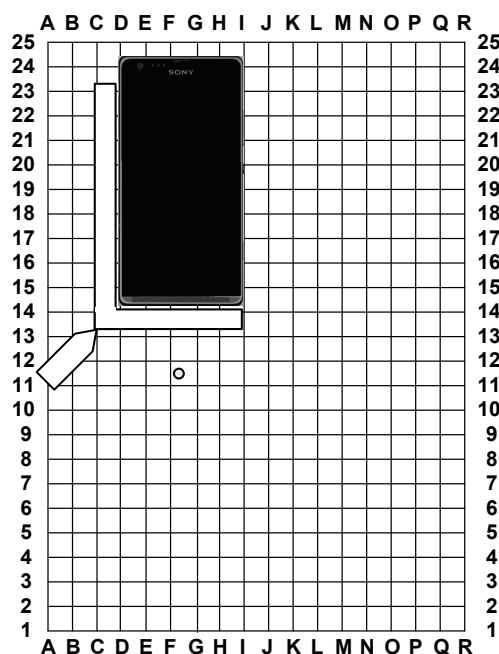
The following equipment has to be used:

- 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 **C13** and place the phone as shown in the adjacent



1.2 Antenna Coupler C5303 C5306 all bands

The following equipment has to be used:

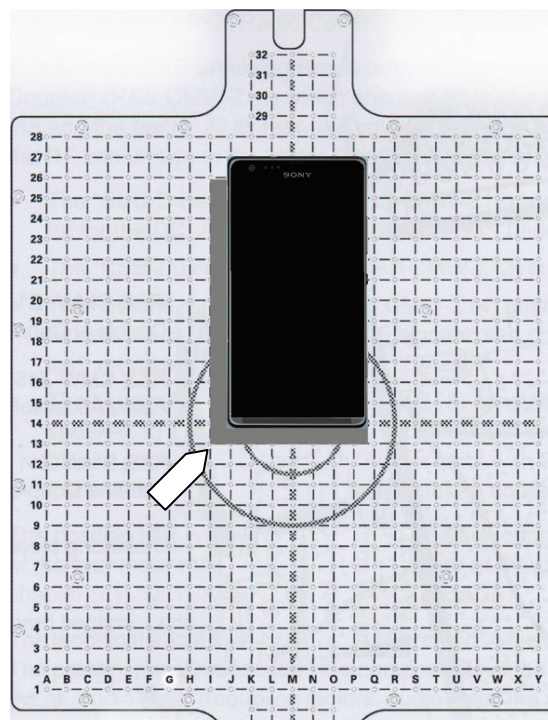
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box
 - Rohde & Schwartz RF Coupler CMW-Z11
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/2100

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

Put the grid positioning holder with its reference point in position **I13** and place the phone as shown in the adjacent picture.



Go/NoGo Testing

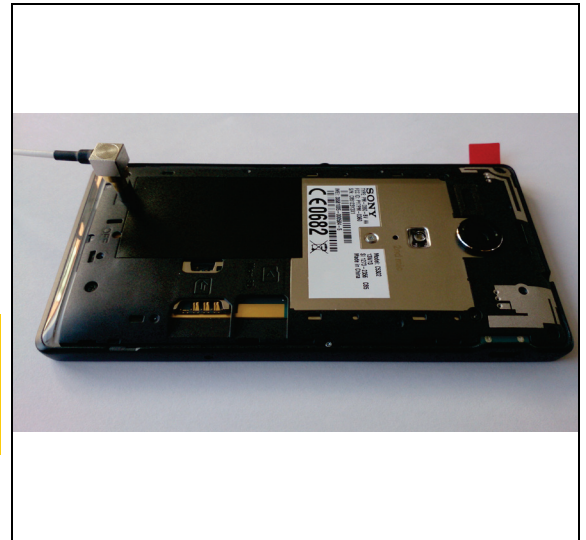
1.3 Direct Line

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 1270-2228: C53 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 6 variants, C5302, C5303, C5306, M35c, M35h and M35t including the following bands:

C5302 and M35h:

GSM-850/900/1800/1900

WCDMA-850/900 /1700 /1900 /2100

C5303:

GSM-850/900/1800/1900

WCDMA-850/900/2100

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

Not to be tested in SERP

C5306:

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

LTE-Band 1/2/4/5

Not to be tested in SERP

M35c:

GSM-850/900/1800/1900

Note: Use CTC not GSM slot for test.

CDMA2k BC 0 and BC1

Note: Micro UICC needed for CDMA test.

M35t:

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

FDD-LTE-Band 3/7

Not to be tested in SERP

TD-LTE-Band 38/39/40/41

Not to be tested in SERP

TD-SCDMA-Band 34/39

Not to be tested in SERP only in Sony Lector

Go/NoGo Testing

1.4 Attenuation Factors

The attenuation values listed below in 1.4.1 - 1.4.4 is valid only when the equipment listed on the previous pages is being used!

1.4.1 Loss Values – Antenna Coupler CMU-Z11, C5302, C5303, C5306 and M35h.

Band	Channel	Attenuation C5302 and M35h		Attenuation C5303		Attenuation C5306	
		Rx	Tx	Rx	Tx	Rx	Tx
GSM 850	Low	7.00	8.84	7.00	8.84	7.00	8.84
	Mid	7.00	8.73	7.00	8.73	7.00	8.73
	High	7.00	9.14	7.00	9.14	7.00	9.14
GSM 900	Low	4.50	8.00	4.50	8.00	4.50	8.00
	Mid	4.50	8.33	4.50	8.33	4.50	8.33
	High	4.50	9.18	4.50	9.18	4.50	9.18
GSM 1800	Low	8.00	13.91	8.00	13.91	8.00	13.91
	Mid	8.00	11.53	8.00	11.53	8.00	11.53
	High	8.00	11.43	8.00	11.43	8.00	11.43
GSM 1900	Low	9.00	10.40	9.00	10.40	9.00	10.40
	Mid	9.00	10.12	9.00	10.12	9.00	10.12
	High	9.00	10.27	9.00	10.27	9.00	10.27
WCDMA 850	Low	7.50	8.86	7.50	8.86	7.50	8.86
	Mid	8.00	8.65	8.00	8.65	8.00	8.65
	High	8.50	9.34	8.50	9.34	8.50	9.34
WCDMA 900	Low	6.00	6.26	6.00	6.26	6.00	6.26
	Mid	6.00	5.56	6.00	5.56	6.00	5.56
	High	6.00	5.19	6.00	5.19	6.00	5.19
WCDMA 1700	Low	13.00	14.05				
	Mid	12.00	12.79				
	High	12.50	13.79				
WCDMA 1900	Low	9.50	11.64			9.50	11.64
	Mid	8.00	9.20			8.00	9.20
	High	8.50	9.38			8.50	9.38
WCDMA 2100	Low	9.00	10.24	9.00	10.24	9.00	10.24
	Mid	9.00	11.22	9.00	11.22	9.00	11.22
	High	9.00	13.97	9.00	13.97	9.00	13.97

Go/NoGo Testing: Attenuation Factors

1.4.2 Loss Values – Antenna Coupler CMU-Z11, M35c and M35t

Band	Channel	Attenuation M35c		Attenuation M35t	
		Rx	Tx	Rx	Tx
GSM 850	Low	8.00	13.21	7.00	8.84
	Mid	8.00	12.43	7.00	8.73
	High	8.00	10.03	7.00	9.14
GSM 900	Low	6.00	7.80	4.50	8.00
	Mid	5.00	7.05	4.50	8.33
	High	5.00	6.55	4.50	9.18
GSM 1800	Low	13.00	14.54	8.00	13.91
	Mid	13.00	14.83	8.00	11.53
	High	13.00	15.85	8.00	11.43
GSM 1900	Low	13.00	17.97	9.00	10.40
	Mid	13.00	17.23	9.00	10.12
	High	13.00	14.96	9.00	10.27
WCDMA 850	Low			7.50	8.86
	Mid			8.00	8.65
	High			8.50	9.34
WCDMA 900	Low			6.00	6.26
	Mid			6.00	5.56
	High			6.00	5.19
WCDMA 1900	Low			9.50	11.64
	Mid			8.00	9.20
	High			8.50	9.38
WCDMA 2100	Low			9.00	10.24
	Mid			9.00	11.22
	High			9.00	13.97
CDMA BC0 <i>TD-SCDMA 34</i>	Low	19.00	14.50	<i>12.00</i>	<i>11.78</i>
	Mid	19.00	14.00	<i>12.00</i>	<i>11.46</i>
	High	19.00	10.00	<i>12.00</i>	<i>11.38</i>
CDMA BC1 <i>TD-SCDMA 39</i>	Low	14.00	10.50	<i>8.00</i>	<i>7.38</i>
	Mid	14.00	10.50	<i>8.00</i>	<i>7.07</i>
	High	14.00	8.50	<i>8.00</i>	<i>8.03</i>

Go/NoGo Testing: Attenuation Factors

1.4.3 Loss Values – Antenna Coupler CMW-Z11, C5303

Band	Channel	Attenuation	
		Rx	Tx
GSM 850	Low	10.00	9.50
	Mid	10.00	10.60
	High	10.00	10.80
GSM 900	Low	12.00	10.00
	Mid	10.00	11.20
	High	14.00	12.80
GSM 1800	Low	8.00	8.57
	Mid	9.00	6.45
	High	8.00	7.02
GSM 1900	Low	9.00	10.95
	Mid	11.00	11.60
	High	12.00	10.65
WCDMA 850	Low	13.00	9.90
	Mid	14.00	10.10
	High	11.00	10.30
WCDMA 900	Low	14.00	7.67
	Mid	13.00	7.33
	High	15.00	8.41
WCDMA 2100	Low	15.00	8.92
	Mid	17.00	10.10
	High	18.00	11.30
LTE BAND 1	Low	13.00	10.10
	Mid	15.00	11.30
	High	15.00	12.30
LTE BAND 3	Low	8.00	9.47
	Mid	9.00	8.67
	High	10.00	8.67
LTE BAND 5	Low	11.00	12.60
	Mid	10.00	12.50
	High	10.00	12.70
LTE BAND 7	Low	13.00	17.20
	Mid	13.00	15.40
	High	13.00	15.10

LTE BAND 8	Low	10.00	10.20
	Mid	12.00	9.83
	High	11.00	10.80
LTE BAND 20	Low	13.00	12.40
	Mid	11.00	12.80
	High	11.00	12.80

1.4.4 Loss Values – Antenna Coupler CMW-Z11, C5306

Band	Channel	Attenuation	
		Rx	Tx
GSM 850	Low	11.00	9.83
	Mid	9.00	10.18
	High	9.67	9.82
GSM 900	Low	11.33	8.41
	Mid	10.00	9.70
	High	11.67	12.05
GSM 1800	Low	8.33	7.95
	Mid	9.33	6.59
	High	8.67	6.26
GSM 1900	Low	10.33	8.76
	Mid	11.33	9.96
	High	12.33	9.42
WCDMA 850	Low	12.67	9.82
	Mid	12.00	10.17
	High	11.33	10.64
WCDMA 900	Low	14.00	7.00
	Mid	13.00	6.77
	High	14.00	7.98
WCDMA 1900	Low	11.00	10.04
	Mid	11.67	10.20
	High	15.00	9.35
WCDMA 2100	Low	16.00	8.98
	Mid	19.00	9.93
	High	18.33	11.02
LTE BAND 1	Low	13.67	9.92
	Mid	16.33	10.94
	High	15.33	11.59
LTE BAND 2	Low	9.00	11.16

	Mid	10.00	11.28
	High	12.33	10.73
LTE BAND 4	Low	13.33	8.76
	Mid	16.33	8.40
	High	14.67	8.28
LTE BAND 5	Low	10.67	12.64
	Mid	9.67	12.67
	High	9.00	13.03

1.4.5 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

2 Revision History

Rev.	Date	Changes / Comments
1	2013-Apr-11	Initial release
2	2013-May-09	M35c added
3	2013-May-23	C5306 added
4	2013-Okt-04	C5303, C5306 and M35t added to SERP
5	2013-Okt-19	M35t TD-SCDMA added to Sony Lector
6	2013-Nov-05	Moved to SL2