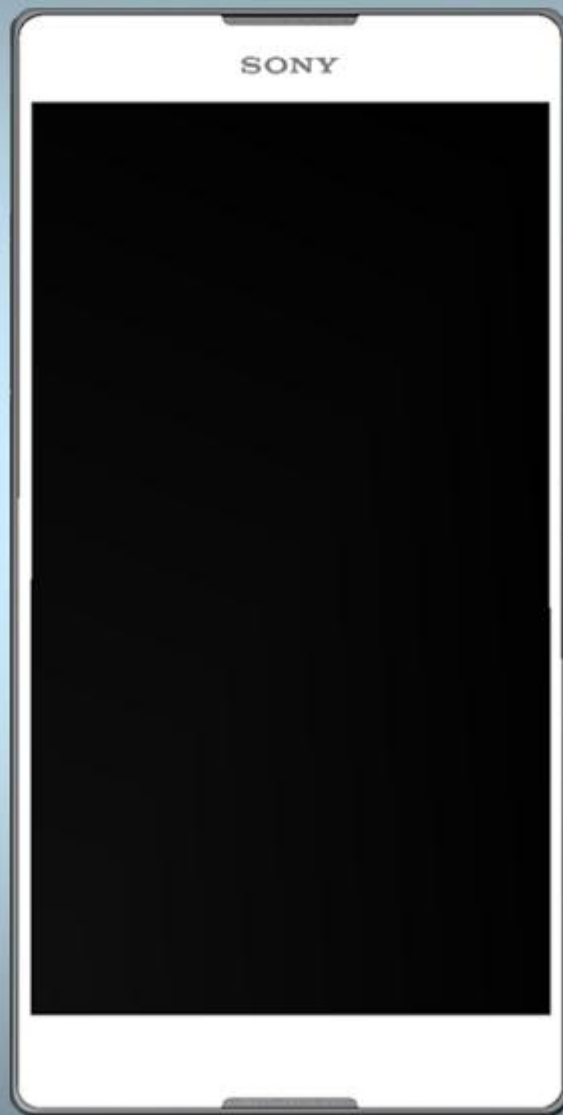


# Go/No Go Test



*Xperia™ T2 Ultra Dual D5322, XM50h*  
*Xperia™ T2 Ultra D5303, D5306, D5316, XM50t*

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***D5322 and XM50h is ONLY implemented in SERPII.***

***D5303 no LTE is implemented in SERPII.***

***D5303 D5306 & D5316 all bands is implemented in CMWRun***

***D5306 no LTE is implemented in SERPII.***

***D5316 no LTE is implemented in SERPII.***

***XM50t TD-SCDMA is ONLY implemented in Sony Lector***

***XM50t GSM and WCDMA band is implemented in SERPII.***

***XM50t no TD-SCDMA bands is implemented in CMWRun***

## 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 D5303, D5306, D5316, D5322, XM50h and XM50t

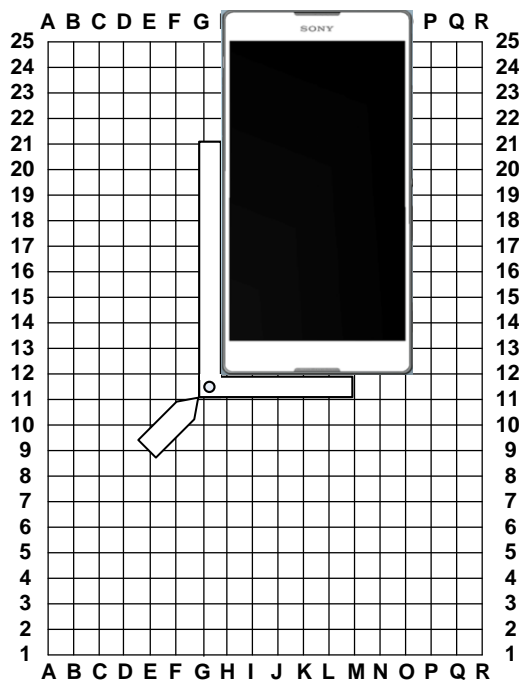
The following equipment has to be used:

- 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 picture. **Remove RF and Data through connectors if mounted**



### 1.2 Antenna Coupler D5303 D5306 D5316 all bands XM50t no TD-SCDMA 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

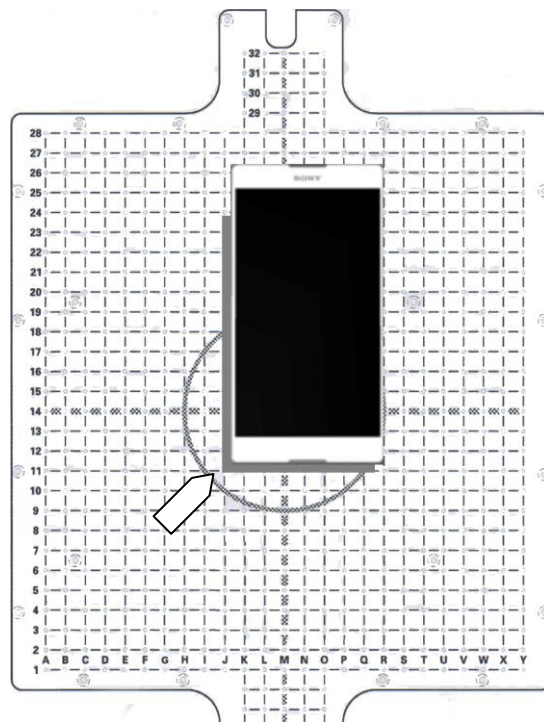
GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

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

TDD LTE-Band 38/39/40/41

Put the grid positioning holder with its reference point in position **J11** 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, D5322, XM50h, D5303, D5306, D5316 and XM50t including the following bands:

### **D5322 and XM50h:**

GSM-850/ 900 /1800 /1900

WCDMA-850 / 900 /1900 / 2100

### **D5303:**

GSM-850/ 900/ 1800/ 1900

WCDMA-850 / 900 / 2100

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

**Not to be tested in SERP** only in CMWRun

### **D5306:**

GSM-850/ 900/ 1800/ 1900

WCDMA-850 / 900 / 1700 / 1900 / 2100

LTE-Band 2/ 4/ 7/ 17

**Not to be tested in SERP** only in CMWRun

### **D5316:**

GSM-850/ 900/ 1800/ 1900

WCDMA-850 / 1700 / 1900 / 2100

LTE-Band 2/ 4 / 17

**Not to be tested in SERP** only in CMWRun

### **XM50t:**

GSM-850/ 900/ 1800/ 1900

WCDMA-850/ 1900/ 2100

FDD-LTE-Band 1/ 3/ 7/ 17

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

TD-SCDMA-Band 34/ 39

**Not to be tested in SERP** only in CMWRun

**Not to be tested in SERP** only in CMWRun

**Not to be tested in SERP** only in Sony Lector

## Go/NoGo Testing

### 1.3 Attenuation Factors

*The attenuation values listed below in 1.3.1 to 1.3.5 is valid only when the equipment listed on the previous pages is being used!*

#### 1.3.1 Loss Values – Antenna Coupler CMU-Z11, D5322, XM50h, and D5303

Band	Channel	Attenuation D5322 and XM50h		Attenuation D5303	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	15.84	8.50	11.58
	Mid	9.00	13.79	7.00	10.80
	High	9.50	12.24	8.00	12.56
GSM 900	Low	11.00	11.04	11.00	9.87
	Mid	12.00	10.05	10.00	8.53
	High	12.00	10.33	12.00	9.70
GSM 1800	Low	13.00	16.40	14.00	16.91
	Mid	12.00	16.62	13.50	17.25
	High	12.00	15.55	14.00	16.55
GSM 1900	Low	9.00	9.16	20.00	22.10
	Mid	9.00	8.92	20.00	23.32
	High	8.00	8.69	20.00	22.53
WCDMA 850	Low	8.50	12.64	9.00	10.70
	Mid	8.00	12.11	8.00	9.46
	High	8.50	11.61	9.00	9.62
WCDMA 900	Low	10.00	8.31	8.50	9.35
	Mid	10.50	8.50	9.50	9.39
	High	11.50	9.71	11.50	9.83
WCDMA 1900	Low	9.00	12.98		
	Mid	8.00	9.74		
	High	9.50	8.93		
WCDMA 2100	Low	10.50	9.29	16.00	21.51
	Mid	12.50	8.72	17.00	22.37
	High	12.50	7.01	18.50	25.98

## Go/NoGo Testing: Attenuation Factors

### 1.3.2 Loss Values – Antenna Coupler CMU-Z11, D5306 and D5316

Band	Channel	Attenuation D5306		Attenuation D5316	
		Rx	Tx	Rx	Tx
GSM 850	Low	11.00	12.93	13.50	12.23
	Mid	10.00	12.72	14.00	11.90
	High	10.00	12.71	14.00	12.02
GSM 900	Low	9.00	9.81	13.00	16.89
	Mid	9.50	9.98	13.00	16.23
	High	10.50	10.89	15.00	15.94
GSM 1800	Low	16.00	18.20	15.00	16.70
	Mid	19.50	17.97	16.00	15.13
	High	18.00	16.29	15.00	14.96
GSM 1900	Low	26.00	19.53	24.00	15.82
	Mid	26.00	24.77	25.00	19.63
	High	27.00	24.08	26.00	21.96
WCDMA 850	Low	9.00	10.81	15.00	12.24
	Mid	8.00	9.80	14.00	12.76
	High	9.00	9.32	13.00	14.17
WCDMA 900	Low	9.00	8.39		
	Mid	10.00	8.51		
	High	11.00	8.88		
WCDMA 1700	Low	23.00	16.65	19.50	17.57
	Mid	23.00	16.64	19.00	16.58
	High	23.00	16.95	19.00	16.13
WCDMA 1900	Low	23.50	17.65	23.50	17.11
	Mid	27.00	25.03	24.00	20.86
	High	27.00	24.28	24.00	22.90
WCDMA 2100	Low	22.00	21.89	18.00	20.49
	Mid	27.50	22.78	18.00	21.80
	High	27.00	27.49	18.00	24.07

## Go/NoGo Testing: Attenuation Factors

### 1.3.3 Loss Values – Antenna Coupler CMU-Z11, XM50t

Band	Channel	Attenuation XM50t	
		Rx	Tx
GSM 850	Low	10.00	14.67
	Mid	8.50	14.27
	High	8.00	14.19
GSM 900	Low	11.00	10.17
	Mid	13.00	8.88
	High	12.00	9.05
GSM 1800	Low	20.00	19.96
	Mid	20.00	18.38
	High	20.00	18.62
GSM 1900	Low	26.00	16.35
	Mid	22.00	15.45
	High	26.00	19.60
WCDMA 850	Low	16.00	14.56
	Mid	14.00	14.52
	High	12.00	14.33
WCDMA 1900	Low	13.00	15.86
	Mid	12.00	14.04
	High	12.50	12.19
WCDMA 2100	Low	12.00	12.63
	Mid	13.00	12.04
	High	13.00	12.29
TD-SCDMA 34	Low	15.00	15.78
	Mid	15.00	15.46
	High	15.00	16.38
TD-SCDMA 39	Low	15.00	15.38
	Mid	15.00	16.07
	High	15.00	16.03

## Go/NoGo Testing

### 1.3.4 Loss Values – Antenna Coupler CMW-Z11, D5303 and XM50t

Band	Channel	Attenuation D5303		Attenuation XM50t	
		Rx	Tx	Rx	Tx
GSM 850	Low	11.00	7.60	10.00	10.50
	Mid	9.00	8.20	9.00	11.40
	High	10.00	10.10	10.00	12.50
GSM 900	Low	9.00	9.70	18.00	10.00
	Mid	11.00	8.40	27.00	8.70
	High	10.00	9.20	27.00	11.30
GSM 1800	Low	17.00	22.70	14.00	12.00
	Mid	13.00	15.00	19.00	14.00
	High	16.00	15.50	23.00	13.00
GSM 1900	Low	16.00	14.70	16.00	16.60
	Mid	13.00	15.30	17.00	18.40
	High	17.00	16.10	19.00	17.00
WCDMA 850	Low	12.00	5.60	15.00	7.00
	Mid	12.00	6.10	13.00	8.00
	High	12.00	7.50	13.00	9.40
WCDMA 900	Low	11.00	7.70		
	Mid	13.00	7.60		
	High	13.00	7.70		
WCDMA 1900	Low			21.00	12.00
	Mid			20.00	13.00
	High			18.00	16.00
WCDMA 2100	Low	15.00	14.60	17.00	17.40
	Mid	16.00	14.00	17.00	17.00
	High	18.00	12.00	17.00	15.50
FDD-LTE BAND1	Low	12.00	17.90	14.00	20.00
	Mid	14.00	15.40	15.00	19.00
	High	15.00	15.00	15.00	18.00
FDD-LTE BAND3	Low	17.00	20.00	15.00	14.20
	Mid	16.00	16.00	12.00	11.00
	High	16.00	17.60	13.00	10.00



## Go/NoGo Testing

FDD-LTE BAND5	Low	9.00	7.80		
	Mid	10.00	8.40		
	High	9.00	9.20		
FDD-LTE BAND 7	Low	20.00	20.50	27.00	23.00
	Mid	21.00	21.90	26.00	24.00
	High	22.00	24.30	26.00	25.00
FDD-LTE BAND 8	Low	9.00	9.00		
	Mid	10.00	8.70		
	High	10.00	7.80		
FDD-LTE BAND17	Low			7.00	8.00
	Mid			7.00	8.00
	High			7.00	8.00
FDD-LTE BAND20	Low	6.00	8.30		
	Mid	7.00	9.50		
	High	7.00	10.30		
TDD-LTE BAND 38	Low			25.3	25.00
	Mid			25.00	24.00
	High			25.00	24.00
TDD-LTE BAND 39	Low			10.00	15.00
	Mid			10.00	16.00
	High			19.00	18.00
TDD-LTE BAND 40	Low			19.00	16.00
	Mid			17.00	22.00
	High			24.00	23.00
TDD-LTE BAND 41	Low			28.00	26.00
	Mid			26.00	24.00
	High			25.30	24.00

## Go/NoGo Testing

### 1.3.5 Loss Values – Antenna Coupler CMW-Z11, D5306 and D5316

Band	Channel	Attenuation D5306		Attenuation D5316	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	7.50	11.67	8.10
	Mid	7.00	8.30	11.67	8.73
	High	7.00	9.30	10.67	10.50
GSM 900	Low	8.00	7.30	11.00	12.80
	Mid	11.00	6.20	13.00	11.90
	High	10.00	7.10	13.00	11.97
GSM 1800	Low	19.00	18.20	17.00	18.20
	Mid	18.00	15.00	16.00	15.00
	High	17.00	16.00	16.33	15.87
GSM 1900	Low	16.00	15.80	15.33	4.50
	Mid	16.00	16.00	14.33	15.83
	High	17.00	16.30	15.67	16.03
WCDMA 850	Low	10.00	6.00	15.00	8.70
	Mid	9.00	7.40	13.00	9.37
	High	9.00	7.60	12.00	11.00
WCDMA 900	Low	11.00	5.80		
	Mid	12.00	5.70		
	High	13.00	6.00		
WCDMA 1700	Low	16.00	18.40	16.67	18.60
	Mid	17.00	16.30	19.00	15.90
	High	16.00	15.50	19.67	15.00
WCDMA 1900	Low	19.00	18.10	17.33	16.33
	Mid	18.00	17.50	16.67	17.57
	High	18.00	17.20	16.67	16.63
WCDMA 2100	Low	14.40	16.00	16.67	13.67
	Mid	13.60	17.00	18.67	12.20
	High	13.50	19.00	21.67	12.13
FDD-LTE BAND 2	Low	16.00	17.50	15.33	17.47
	Mid	18.00	17.50	16.67	16.67
	High	15.00	18.00	14.33	17.13

## Go/NoGo Testing

FDD-LTE BAND 4	Low	13.00	18.60	14.33	20.23
	Mid	15.00	17.00	16.33	18.10
	High	14.00	16.00	16.33	16.47
FDD-LTE BAND 7	Low	23.00	22.60		
	Mid	24.00	23.60		
	High	26.00	26.20		
FDD-LTE BAND17	Low	6.00	6.20	6.00	6.67
	Mid	6.00	6.20	6.00	6.93
	High	6.00	6.20	5.67	6.70

## 2 Revision History

Rev.	Date	Changes / Comments
1	2014-03-06	Initial release
2	2014-03-29	D5303 and XM50t added
3	2014-03-31	D5303 and XM50t LTE test added
4	2014-05-31	D5306 added.
5	2014-06-09	D5306 LTE test added
6	2014-08-14	D5316 added