

Go/No Go Test



Xperia™ Z1

C6916 / L39t / L39u

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C6916 no LTE bands is implemented in SERPII.
L39t no TD-SCDMA, no LTE bands is implemented in SERPII.
L39t no TD-SCDMA bands /L39u C6916 all bands is implemented in CMWrun.
L39t only TD-SCDMA bands is implemented in Sony Lector.
L39u no LTE bands is implemented in SERPII.

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 C6916, L39t and L39u no LTE

The following equipment has to be used:

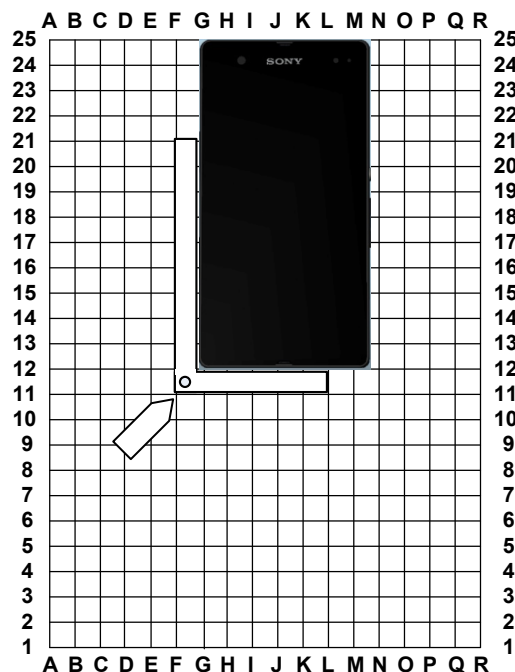
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMU-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

TD-SCDMA-BAND 34/39

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 L39t no TD-SCDMA/ C6916 L39u 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

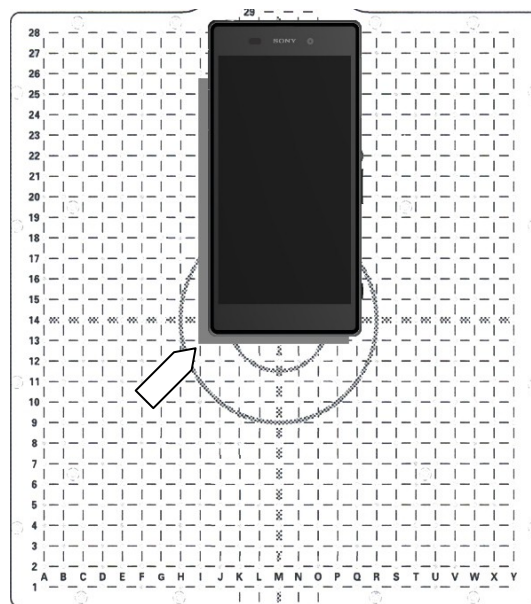
GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

FDD-LTE-BAND 3/4/7/17

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

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

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 3 versions, C6916, L39t and L39u including the following bands:

C6916:

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

FDD-LTE Band 4/17

Not to be tested in SERP

L39t:

GSM-850/900/1800/1900

WCDMA-850/1900 /2100

FDD-LTE Band 3/7

Not to be tested in SERP

TDD-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

L39u:

GSM-850/900/1800/1900

WCDMA-850/1900 /2100

FDD-LTE Band 3/41

Not to be tested in SERP

1.3 Attenuation Factors

The attenuation values listed below in 1.2.1 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 C6916		Attenuation L39t		Attenuation L39u	
		Rx	Tx	Rx	Tx	Rx	Tx
GSM 850	Low	7.00	7.56	8.00	10.33	8.00	10.33
	Mid	8.00	6.11	8.00	9.43	8.00	9.43
	High	8.00	5.61	6.00	8.18	6.00	8.18
GSM 900	Low	6.00	7.43	5.00	7.52	5.00	7.52
	Mid	5.00	6.77	5.50	7.20	5.50	7.20
	High	8.00	5.85	5.00	7.11	5.00	7.11
GSM 1800	Low	16.00	16.65	22.00	20.74	22.00	20.74
	Mid	16.00	16.01	21.00	17.23	21.00	17.23
	High	14.00	15.57	21.00	17.69	21.00	17.69
GSM 1900	Low	13.00	13.77	22.50	17.98	22.50	17.98
	Mid	14.00	10.99	22.00	18.88	22.00	18.88
	High	13.00	10.85	22.00	19.80	22.00	19.80
WCDMA 850	Low	8.00	8.57	6.00	9.18	6.00	9.18
	Mid	8.00	8.83	5.50	8.64	5.50	8.64
	High	6.00	8.83	5.50	8.37	5.50	8.37
WCDMA 900	Low	6.00	7.23				
	Mid	6.00	6.34				
	High	7.50	6.03				
WCDMA 1700	Low	12.50	16.76				
	Mid	13.00	16.52				
	High	12.00	16.06				
WCDMA 1900	Low	13.00	15.73	11.00	15.92	11.00	15.92
	Mid	13.00	12.41	11.00	16.03	11.00	16.03
	High	12.00	11.36	13.00	11.69	13.00	11.69
WCDMA 2100	Low	11.50	11.19	11.00	12.15	11.00	12.15
	Mid	11.00	12.75	10.50	12.35	10.50	12.35
	High	12.00	12.46	10.00	13.60	10.00	13.60
TD-SCDMA 34	Low			11.00	12.78		
	Mid			11.00	12.46		
	High			11.00	12.38		
TD-SCDMA 39	Low			12.00	12.38		
	Mid			12.00	12.07		
	High			12.00	12.03		

Go/NoGo Testing

1.3.2 Loss Values – Antenna Coupler CMW-Z11

Band	Channel	Attenuation C6916		Attenuation L39t		Attenuation L39u	
		Rx	Tx	Rx	Tx	Rx	Tx
GSM 850	Low	15.33	9.50	16.50	11.05	16.50	11.05
	Mid	16.33	10.80	15.50	11.00	15.50	11.00
	High	13.67	13.40	12.00	12.15	12.00	12.15
GSM 900	Low	13.67	14.50	10.00	14.75	10.00	14.75
	Mid	16.33	11.90	12.50	11.65	12.50	11.65
	High	16.67	11.40	11.50	11.40	11.50	11.40
GSM 1800	Low	12.00	8.60	10.50	10.00	10.50	10.00
	Mid	10.00	8.90	12.00	9.65	12.00	9.65
	High	10.00	10.50	11.50	9.20	11.50	9.20
GSM 1900	Low	11.67	10.10	12.50	9.75	12.50	9.75
	Mid	11.33	9.40	12.50	10.95	12.50	10.95
	High	9.33	10.70	17.00	12.40	17.00	12.40
WCDMA 850	Low	19.33	9.90	16.50	11.00	16.50	11.00
	Mid	17.00	10.90	14.00	12.00	14.00	12.00
	High	14.00	13.00	13.00	13.45	13.00	13.45
WCDMA 900	Low	15.67	13.30				
	Mid	18.33	11.10				
	High	20.00	10.10				
WCDMA 1700	Low	16.33	7.70				
	Mid	16.00	7.50				
	High	16.33	7.80				
WCDMA 1900	Low	13.00	9.40	14.00	10.10	14.00	10.10
	Mid	11.33	9.30	13.00	10.35	13.00	10.35
	High	12.33	10.30	13.00	10.85	13.00	10.85
WCDMA 2100	Low	16.33	10.20	15.50	10.35	15.50	10.35
	Mid	16.00	9.40	13.00	11.65	13.00	11.65
	High	15.00	9.00	14.00	12.30	14.00	12.30
FDD-LTE BAND 3	Low			12.00	12.50	12.00	12.50
	Mid			11.00	11.00	11.00	11.00
	High			10.50	10.00	10.50	10.00
FDD-LTE BAND4	Low	14.00	9.90				
	Mid	14.33	9.80				

	High	14.67	10.30				
FDD-LTE BAND 7	Low			22.50	16.55		
	Mid			24.00	18.00		
	High			24.50	19.00		
FDD-LTE BAND17		7.33	8.90				
		8.00	8.80				
		8.00	8.80				
TDD-LTE BAND 38	Low			19.00	20.30		
	Mid			20.50	21.70		
	High			22.50	22.75		
TDD-LTE BAND 39	Low			10.00	10.00		
	Mid			10.00	10.00		
	High			10.50	11.05		
TDD-LTE BAND 40	Low			11.00	12.20		
	Mid			13.00	17.00		
	High			14.00	13.75		
TDD-LTE BAND 41	Low			15.00	16.75	15.00	16.75
	Mid			19.50	22.00	19.50	22.00
	High			24.50	23.00	24.50	23.00

2 Revision History

Rev.	Date	Changes / Comments
1	2013-Dec-15	Initial release
2	2014-Jan-07	C6916 and L39u added
3	2014-Jan-20	L39u LTE test added