

Report Reference ID:	278614-7TRFWL
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Test specification:	Title 47 – Telecommunication Chapter I – Federal Communications Commission Subchapter B – Common carrier services Part 27 – Miscellaneous wireless communications services
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Applicant:	TEKO Telecom Srl. Via Meucci, 24/a I-40024 Castel S. Pietro Terme (BO) (Italy)	
Apparatus:	Remote Unit	
Model:	TRL7S8SC8A19AW23AS	
FCC ID:	XM2-EP23	

Testing laboratory:	Nemko Italy Spa Via del Carroccio, 4 20853 Biassono (MB) – Italy Telephone: +39 039 2201201 Facsimile: +39 039 2201221
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	Name and title	Date
Tested by:	Curioni &	2015-03-11
	G. Curioni, Wireless/EMC Specialist	2010 00 11
Reviewed by:	P. Barbieri, Wireless/EMC Specialist	2015-03-11

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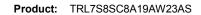
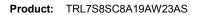




Table of contents

Cootion 4.	Report summary	
1.1	Test specification	
1.2	Statement of compliance	4
1.3	Exclusions	4
1.4	Registration number	4
1.5	Test report revision history	4
1.6	Limits of responsibility	4
Section 2: 2.1	Summary of test results	
Section 3: 3.1	Equipment under test (EUT) and application details Applicant details	
3.2	Modular equipment	6
3.3	Product details	6
3.4	Application purpose	6
3.5	Composite/related equipment	7
3.6	Sample information	7
3.7	EUT technical specifications	7
3.8	Accessories and support equipment	8
3.9	Operation of the EUT during testing	9
3.10	EUT setup diagram	9
Section 4: 4.1	Engineering considerations	
4.2	Deviations from laboratory tests procedures	10
4.3	Technical judgment	10
	Test conditions Deviations from laboratory tests procedures	
5.2	Test conditions, power source and ambient temperatures	11
5.3	Measurement uncertainty	12
5.4	Test equipment	12
	A: Test results50(d) Peak output power at RF antenna connector	
Clause 27.	53(h) Spurious emissions at RF antenna connector, continued	19
Clause 27.	53(h) Radiated spurious emissions	35
Clause 2.1	049 Occupied bandwidth	43
Clause 935	5210 D02v02r01 (D.3)(I) Out of band rejection	51





· · · · · · · · · · · · · · · · · · ·	······································
ndix B: Block diagrams of test set-ups ndix C: EUT Photos	53



rt summary **Product**: TRL7S8SC8A19AW23AS

Specification: FCC 27

Section 1: Report summary

1.1 Test specification

Specifications

Part 27 - Miscellaneous wireless communications services

1.2 Statement of compliance

Compliance

In the configuration tested the EUT was found compliant

Yes ⊠ No □

This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko Canada Inc. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 27. Radiated tests were conducted in accordance with ANSI C63.4-2003.

1.3 Exclusions

Exclusions

None

1.4 Registration number

Test site FCC
ID number

176392 (3 m Semi anechoic chamber)

1.5 Test report revision history

•	
Revision #	Details of changes made to test report
TRF	Original report issued
R1TRF	

1.6 Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

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Specification: FCC 27

Section 2: Summary of test results

2.1 FCC Part 27, test results		
Part	Test description	Verdict
§27.50(d)	Peak output power at RF antenna connector	Pass
§27.53(h)	Spurious emissions at RF antenna connector, continued	Pass
§27.53(h)	Radiated spurious emissions	Pass
§27.54	Frequency stability	N/A a)
§2.1049	Occupied bandwidth	Pass
§ 935210	Out of band rejection	Pass
D02v02r01 (D.3)(I)	-	

Notes:

a) NOT APPLICABLE: Modulation/frequency conversion circuitry not in use. No frequency change in EUT (input and output have same frequency)



Specification: FCC 27

Section 3: Equipment under test (EUT) and application details

3.1 Applicant of	hetails	
		Toka Talasam Crl
Applicant	Name:	Teko Telecom Srl
complete	Federal	0040000400
business name	Registration	0018963462
	Number (FRN):	\(\alpha \)
	Grantee code	XM2
Mailing address	Address:	Via Meucci, 24/a
	City:	Castel S. Pietro Terme
	Province/State:	Bologna
	Post code:	40024
	Country:	Italy
3.2 Modular ed	guipment	
a) Single modular	Single modular approval	
approval	Yes	No ⊠
b) Limited single	Limited single modular approval	
modular approval	Yes ☐ No ⊠	
	<u> </u>	
3.3 Product de	etails	
FCC ID	Grantee code:	XM2
	Product code:	-EP23
Equipment class	B2I	
Description of	Remote Unit for option	cal system
product as it is	Model	TRL7S8SC8A19AW23AS
marketed	name/number:	TRL/303C0A19AW23A3
	Serial number:	140829001
3.4 Application	nurnoco	
		(final) an
Type of application	Original certi	
application		CONTINUESTICS OF STACKORIU/ CLIFS OF TOOL OF COLUMN ASSET
application		lentification of presently authorized equipment
приношной	Original FCC	C ID: Grant date:
приношини	Original FCC	



Specification: FCC 27

Section 3: Equipment under test

/related equipment		
The EUT is a composite device subject to an additional equipment		
authorization		
Yes □ No ⊠		
The EUT is part of a system that operates with, or is marketed with,		
another device that requires an equipment authorization		
Yes □ No ⊠		
If either of the above is "yes":		
☐ has been granted under the FCC ID(s) listed below:		
is in the process of being filled under the FCC ID(s) listed below:		
is pending with the FCC ID(s) listed below:		
has a mix of pending and granted statues under the FCC ID(s)		
listed below:		
i FCC ID:		
ii FCC ID:		

3.6 Sample information				
Receipt date:	2015-03-09			
Nemko sample ID number:				

3.7 EUT technical specifications				
Down Link: 2110–2180 MHz, Up Link: 1710-1780 MHz				
Wideband				
CDMA, WCDMA, LTE (QAM and QPSK)				
CDMA: 1,25 MHz,				
WCDMA: 5 MHz				
LTE: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
standard				
CDMA, WCDMA: F9W,				
LTE: D7W				
Down Link: 31dBm (1,25W)				
Up Link: N.A. (The EUT does not transmit over the air in the up-link				
direction)				
Down Link: 36dB				
Up Link: N.A. (The EUT does not transmit over the air in the up-link				
direction)				
External Antenna is not provided,				
equipment that has an external 50 Ω RF connector				
100-240 Vac				



Specification: FCC 27

Section 3: Equipment under test

2.0 Accessories on	d ournort oquinment				
3.8 Accessories and support equipment					
The following information identifies accessories used to exercise the EUT during testing:					
Item # 1					
Type of equipment: Master Unit - Subrack					
Brand name:	Teko Telecom srl				
Model name or number:	SUB-TRX-PSU				
Serial number:	101083001				
Nemko sample number:					
Connection port:					
Cable length and type:					
Item # 2					
Type of equipment:	Master Unit – Management Module				
Brand name:	Teko Telecom srl				
Model name or number:	TSPV-R				
Serial number:	081900043				
Nemko sample number:					
Connection port:	LAN port				
Cable length and type:					
Item # 3					
Type of equipment:	Master Unit – Optical Module				
Brand name:	Teko Telecom srl				
Model name or number:	TTRU4W-S-M				
Serial number:	110679007				
Nemko sample number:					
Connection port:	DL/UL RF connector (to connect to the base station)				
·	Optical port (to connect to remote unit)				
Cable length and type:					
Item # 4					
Type of equipment:	Master Unit – Power Supply				
Brand name:	Teko Telecom srl				
Model name or number:	TPSU/AC				
Serial number:	100012286				
Nemko sample number:					
Connection port:					
Cable length and type:					



Specification: FCC 27

3.9 Operation of the EUT during testing

Details:

In down-link direction, normal working at max gain with max RF power output

3.10 EUT setup diagram

In this system, Remote Unit is the EUT. Master Unit includes only management module and optical module (to convert RF signal in optical signal in down link direction and viceversa optical signal in RF signal in up link direction). As described in "Operational description", master unit is connected directly to base station, so the system doesn't use another equipment (under another FCC ID) to exercise the EUT. Signal generator is linked directly to the RF connector of optical module in the Master Unit.

Test setup for output power, occupied bandwidth, spurious emissions:



Procedure

Connect the signal modulated generator to the input of the EUT, so that the EUT works at the max gain. Raise the input level to the EUT until reach the maximum output power. Connect the spectrum analyzer to the RF output connector of the EUT.



Product: TRL7S8SC8A19AW23AS

Section 4: Engineering considerations

Contain 1. Engineering considerations					
4.1 Modificatio	ns incorporated in the EUT				
Modifications	Modifications performed to the EUT during this assessment None ☑ Yes □, performed by Client □ or Nemko □ Details:				
4.2 Deviations	from laboratory tests procedures				
Deviations	Deviations from laboratory test procedures None Yes - details are listed below:				
4.3 Technical j	4.3 Technical judgment				
Judgment	None				



Product: TRL7S8SC8A19AW23AS Section 5: Test conditions

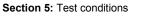
Specification: FCC 27

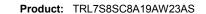
Section 5: Test conditions

Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

5.2 Test conditions, power source and ambient temperatures				
Normal temperature, humidity and air pressure test conditions	Temperature: 15–30 °C Relative humidity: 20–75 % Air pressure: 86–106 kPa			
	When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.			
Power supply range:	The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ±5 %, for which the equipment was designed.			





Section 5: Test conditions, continued

5.3 Measurement uncertainty

Nemko S.p.A. measurement uncertainty has been calculated using the standard CISPR 16-4-2 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modeling – Uncertainty in EMC measurements". All calculations can be found in Nemko S.p.A. document WML1002.

5.4 Test equipment					
Equipment	Manufacturer	Model No.	Asset/Serial No.	Next cal.	
Vector Signal Generator	Agilent	N5172B EXG	MY53050534	Feb 2017	
Vector Signal Generator	Agilent	E4438C ESG	MY45094485	Ago 2016	
Spectrum Analyzer	Agilent	N9030A PXA	MY53120882	Apr 2015	
Network Analyzer	Agilent	E5071B ENA	MY46418709	Jan 2016	
EMI Receiver	R&S	ESCI	100888	08/2015	
V-network	R&S	ESH2-Z5	872 460/041	09/2015	
Trilog Broad Band Antenna 25-2000 MHz	Schwarzbeck	VULB 9168	VULB 9168-242	02/2015	
Trilog Broad Band Antenna 25-8000 MHz	Schwarzbeck	VULB 9162	VULB 9162-25	05/2015	
Antenna 1-18 GHz	Schwarzbeck	STLP 9148	STPL 9148-123	02/2015	
Double ridge waveguide horn	RFspin	DRH40	061106A40	08/2016	
Preamplifier 18-40 GHz	Miteq	JS44	1648665	11/2015	
Broadband preamplifier 1-18 GHz	Schwarzbeck	BBV 9718	9718-137	10/2015	
EMI receiver 20 Hz ÷ 8 GHz	R&S	ESU8	100202	02/2015	
EMI receiver 20 Hz ÷ 3 GHz	R&S	ESCI	100888	08/2015	
Hydraulic revolving platform	Nemko	RTPL 01	4.233	NCR	
Turning-table	R&S	HCT	835 803/03	NCR	
Antenna mast	R&S	HCM	836 529/05	NCR	
Controller	R&S	HCC	836 620/7	NCR	
Spectrum Analyzer 9kHz ÷ 40GHz	R&S	FSEK	848255/005	08/2015	
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	530	09/2016	
Shielded room	Siemens	10m control room	1947	NCR	
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	70	NCR	
Shielded Room	Siemens	3m semi-anechoic chamber	3	NCR	
Motor controller	Emco	1051-25	9012-1559	NCR	
Motor controller	Emco	1061-1.521	9012-1508	NCR	
Antenna Tower	Emco	2071-2	9601-1940	NCR	
Controller pole/table	Emco	2090	9511-1099	NCR	
V-Network	R&S	ESH2-Z5	872 460/041	09/2015	
A -I ACTMOLK	I G G	LOHZ-ZU	012 400/041	09/2010	

N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use (*) Equipment supplied by manufacturer's



Specification: FCC 27

Appendix A: Test results

Clause 27.50(d) Peak output power at RF antenna connector

- § 27.50(d) The following power and antenna height requirements apply to stations transmitting in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz and 2180-2200 MHz bands:
 - (2) The power of each fixed or base station transmitting in the 1995-2000 MHz, the 2110-2155 MHz 2155-2180 MHz band, or 2180-2200 MHz band and situated in any geographic location other than that described in paragraph (d)(1) of this section is limited to:
 - (i) An equivalent isotropically radiated power (EIRP) of 1640 watts when transmitting with an emission bandwidth of 1 MHz or less;
 - (ii) An EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz.
 - (5) Equipment employed must be authorized in accordance with the provisions of §24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test date: 2015-03-09
Test results: Pass

Special notes

The power was measured using spectrum analyzer with RMS detector / average power meter.

 In measuring transmissions in this band using an average power technique, the peak-toaverage ratio (PAR) of the transmission may not exceed 13dB



Specification: FCC 27

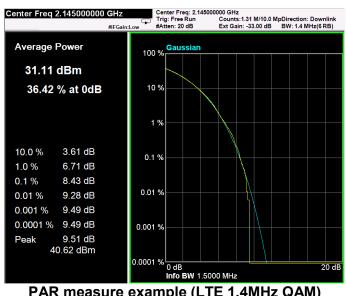
Clause 27.50(d) Peak output power at RF antenna connector

Test data	
Conducted measurements	

	Test data					
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)	RF output Power (W/MHz)	PAR (dB)
Down-link	CDMA (1,25MHz)	2145.0	31.13	1.30	1.04	9.13
Down-link	WCDMA (5MHz)	2145.0	31.20	1.32	0.264	10.41
Down-link	LTE (QAM, 1,4MHz)	2145.0	31.11	1.29	0.929	9.51
Down-link	LTE (QPSK, 1,4MHz)	2145.0	31.12	1.29	0.921	9.14
Down-link	LTE (QAM, 3MHz)	2145.0	31.17	1.31	0.437	9.96
Down-link	LTE (QPSK, 3MHz)	2145.0	31.09	1.29	0.43	10.23
Down-link	LTE (QAM, 5MHz)	2145.0	31.20	1.32	0.264	9.99
Down-link	LTE (QPSK, 5MHz)	2145.0	31.13	1.30	0.26	9.99
Down-link	LTE (QAM, 10MHz)	2145.0	31.16	1.31	0.131	10.12
Down-link	LTE (QPSK, 10MHz)	2145.0	31.13	1.30	0.130	9.96
Down-link	LTE (QAM, 15MHz)	2145.0	31.09	1.29	0.086	9.77
Down-link	LTE (QPSK, 15MHz)	2145.0	31.12	1.29	0.086	10.27
Down-link	LTE (QAM, 20MHz)	2145.0	31.19	1.32	0.066	10.42
Down-link	LTE (QPSK, 20MHz)	2145.0	31.15	1.31	0.065	10.22

Transmitting these powers by a $\lambda/2$ dipole tuned on the carriers' frequency we get: erp.

PAR measure is performed by the "CCDF" function installed on Spectrum analyzer that provides average power (the same measured with "Channel power" function), peak power and PAR. Below an example:



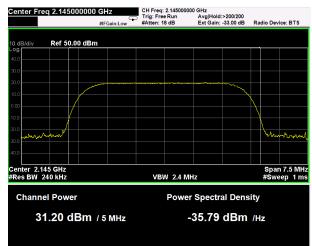
PAR measure example (LTE 1,4MHz QAM)

Specification: FCC 27

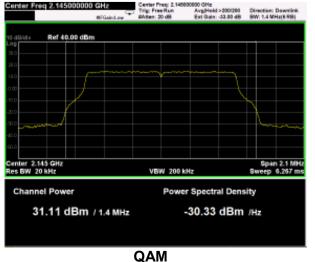
Mod. CDMA

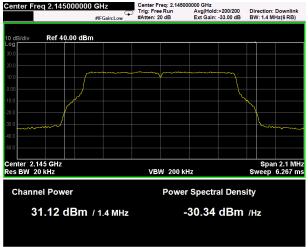
Center Freq 2.145000000 GHz #Freq 2.145000000 GHz #Radio Std: cdma2000 Radio Device: BTS Possible Std: cdma2000 Radio Device: BTS Possible Std: cdma2000 Radio Device: BTS Radio Device: BTS

Mod. WCDMA



Mod. LTE 1,4MHz (Down-link)

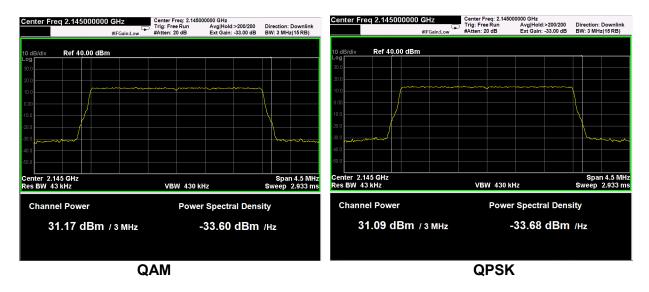




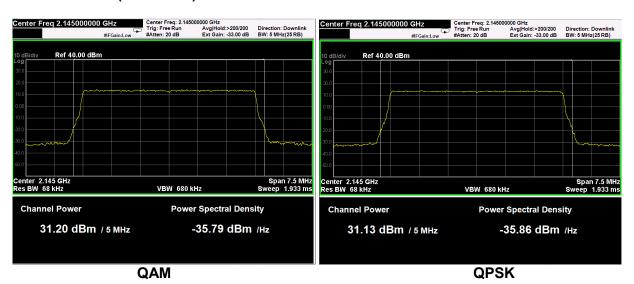
QAM QPSK

Specification: FCC 27

Mod. LTE 3MHz (Down-link)

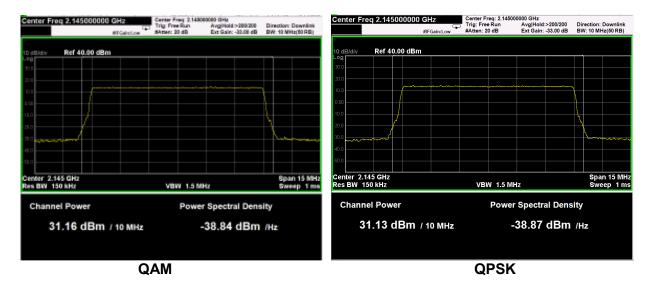


Mod. LTE 5MHz (Down-link)

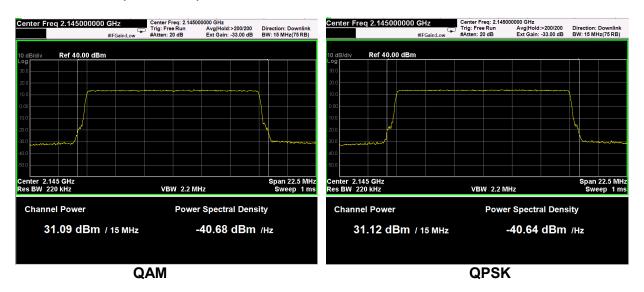




Mod. LTE 10MHz (Down-link)

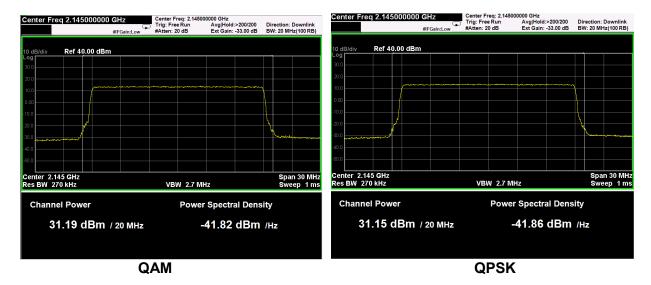


Mod. LTE 15MHz (Down-link)





Mod. LTE 20MHz (Down-link)





Specification: FCC 27

Clause 27.53(h) Spurious emissions at RF antenna connector, continued

(h) AWS emission limits:

- (1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.
- (3) Measurement procedure.
- (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (ii) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (iii) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

Test date: 2015-03-09
Test results: Pass

Special notes

- The spectrum was searched from 30 MHz to the 10th harmonic.
- All measurements were performed using a peak detector.
- RBW within 30–1000 MHz was 100 kHz and 1 MHz above 1 GHz. VBW was wider than RBW.



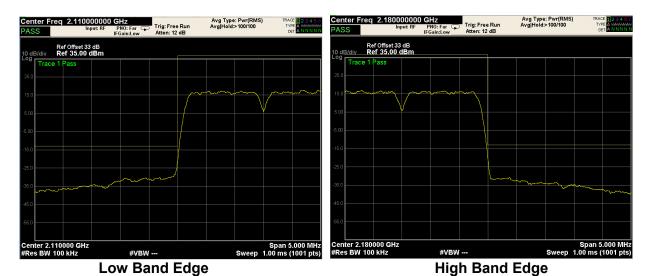
Clause 27.53 (h) Spurious emissions at RF antenna connector, continued

Test data			
See Plots below			
Spurious emissions me	easurement results:		
Frequency (MHz)	Spurious emission (dBm)	Limit (dBm)	Margin (dB)
Low channel			
First channel	Negligible	-13	
Mid channel			
2145 MHz	Negligible	-13	
High channel			
Last channel	Negligible	-13	

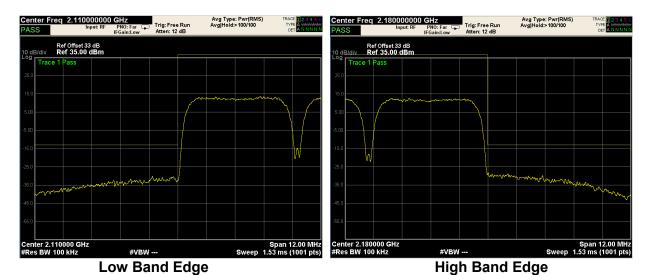


Test data, continued: band edges Inter modulation:

Mod. CDMA (Down-link)

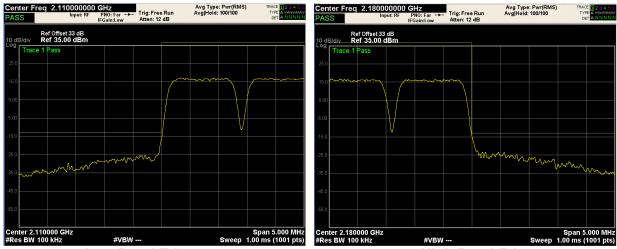


Mod. WCDMA (Down-link)





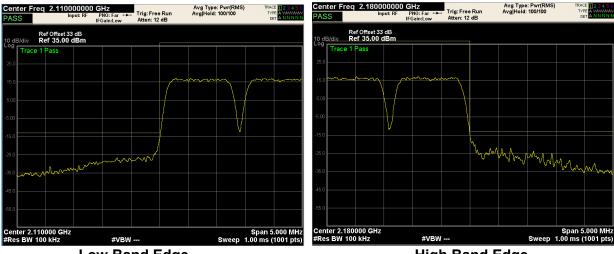
Mod. LTE 1.4MHz (QAM) (Down-link)



Low Band Edge

High Band Edge

Mod. LTE 1.4MHz (QPSK) (Down-link)

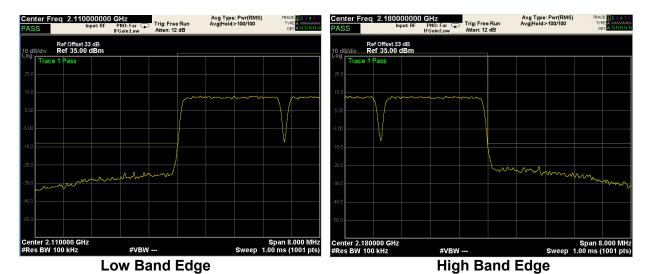


Low Band Edge

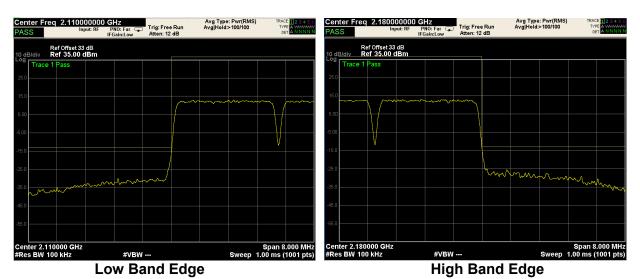
High Band Edge



Mod. LTE 3MHz (QAM) (Down-link)



Mod. LTE 3MHz (QPSK) (Down-link)





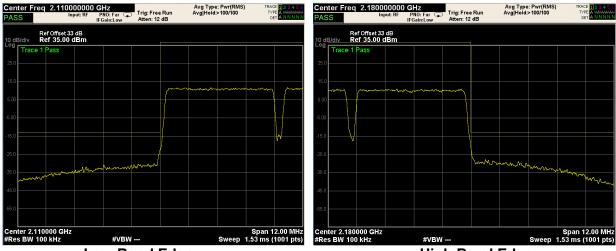
Mod. LTE 5MHz (QAM) (Down-link)



Low Band Edge

High Band Edge

Mod. LTE 5MHz (QPSK) (Down-link)



Low Band Edge

High Band Edge



Mod. LTE 10MHz (QAM) (Down-link)

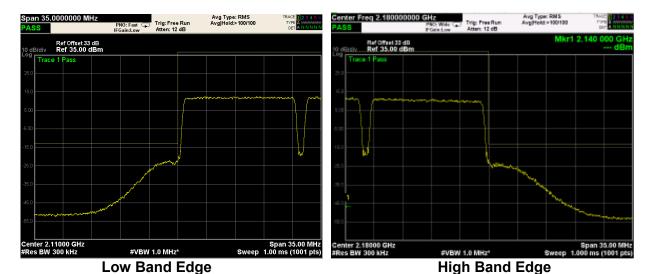


Mod. LTE 10MHz (QPSK) (Down-link)





Mod. LTE 15MHz (QAM) (Down-link)



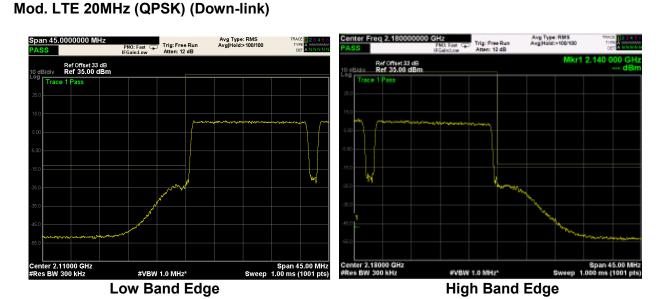
Mod. LTE 15MHz (QPSK) (Down-link)





Mod. LTE 20MHz (QAM) (Down-link)

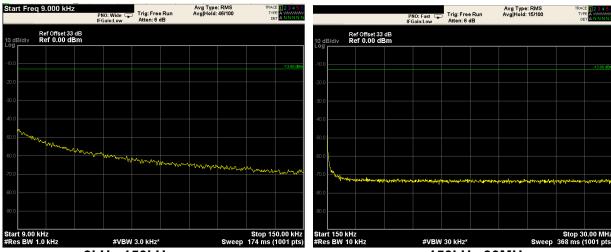




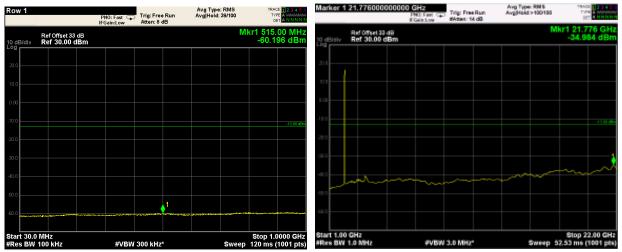


Test data, continued: spurious emissions at antenna terminal

Mod. CDMA (Down-link)



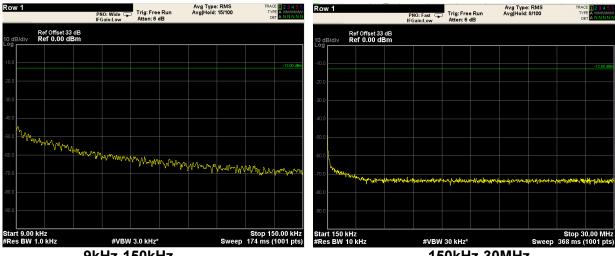
9kHz-150kHz 150kHz-30MHz



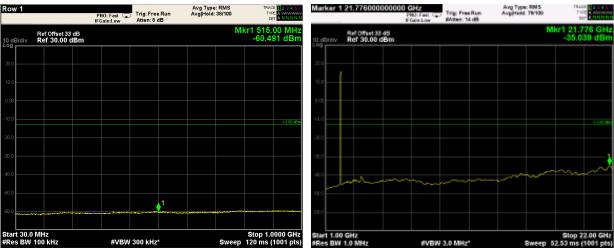
30MHz-1GHz 1GHz-22GHz



Mod. WCDMA (Down-link)



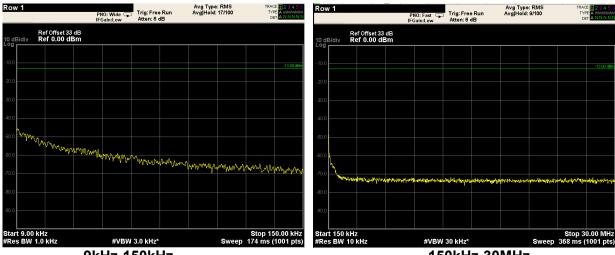
9kHz-150kHz 150kHz-30MHz



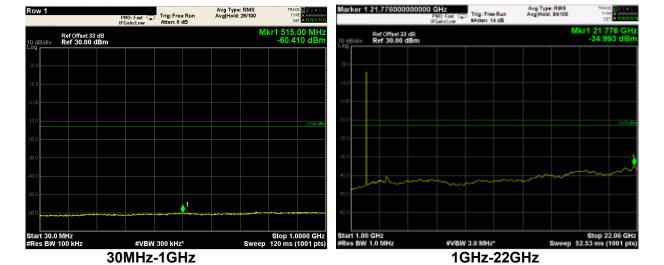
30MHz-1GHz 1GHz-22GHz



Mod. LTE 1.4MHz (QAM) (Down-link)

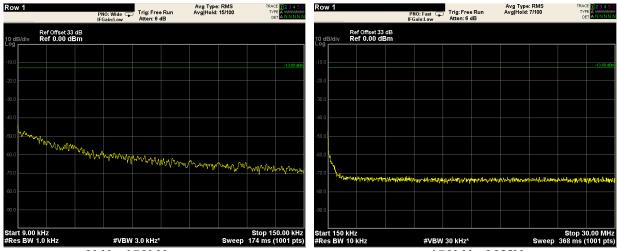


9kHz-150kHz 150kHz-30MHz



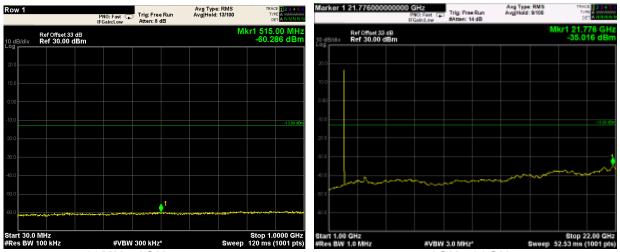


Mod. LTE 1.4MHz (QPSK) (Down-link)



9kHz-150kHz

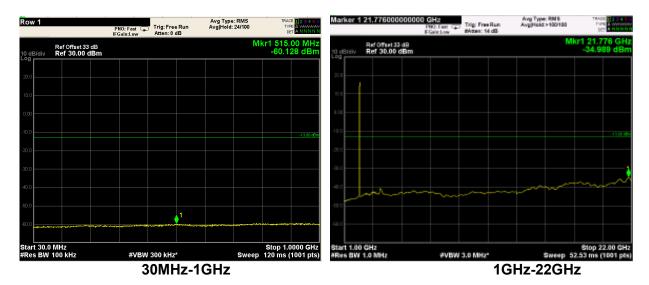
150kHz-30MHz



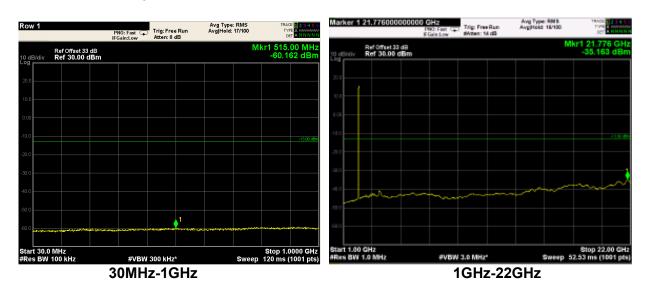
1GHz-22GHz



Mod. LTE 3MHz, only 30M-22G plot (Down-link)



Mod. LTE 5MHz, only 30M-22G plot (Down-link)



Specification: FCC 27

Mod. LTE 10MHz, only 30M-22G plot (Down-link)



Mod. LTE 15MHz, only 30M-22G plot (Down-link)





Mod. LTE 20MHz, only 30M-22G plot (Down-link)





Specification: FCC 27

Clause 27.53(h) Radiated spurious emissions

(h) AWS emission limits:

- (1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.
- (3) Measurement procedure.
- (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (ii) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (iii) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

Test date: 2015-03-10
Test results: Pass

Special notes

- The spectrum was searched from 30 MHz to the 10th harmonic.
- All measurements were performed using a peak detector.
- The measurements were performed at the distance of 3 m.
- RBW within 30–1000 MHz was 100 kHz and 1 MHz above 1 GHz. VBW was wider than RBW



Specification: FCC 27

Clause 27.53(h) Radiated spurious emissions, continued

Test data

The D.U.T. was positioned according to the radiated emissions set-up

The D.U.T. antenna connector was terminated by a 50 Ω shielded dummy load.

The spectrum was searched from 30 MHz to 1 GHz (RBW 100 kHz) & 1 GHz (RBW 1 MHz) to the tenth harmonic of the carrier.

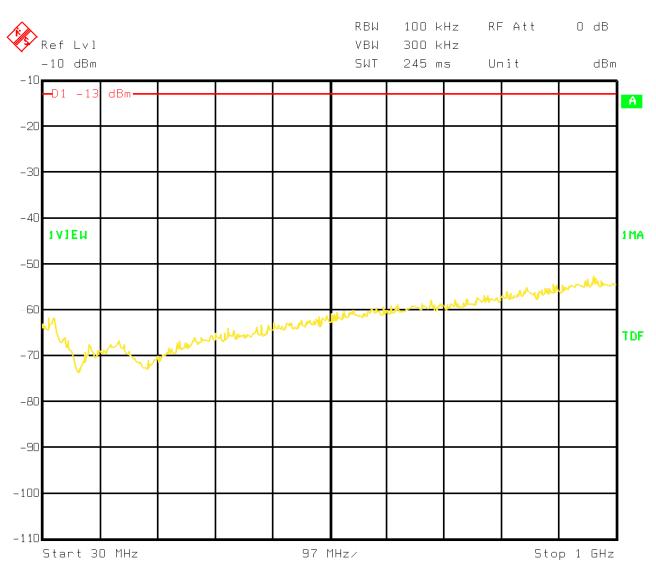
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

Frequency (MHz)	Polarization. V/H	Field strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
Low channel	VIII	(αυμν/ιιι)	(αυμν/ιιι)	(u <i>b)</i>		
LOW CHAINICI						
Mid channel		L		L		
High channel	High channel					
_						

Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.

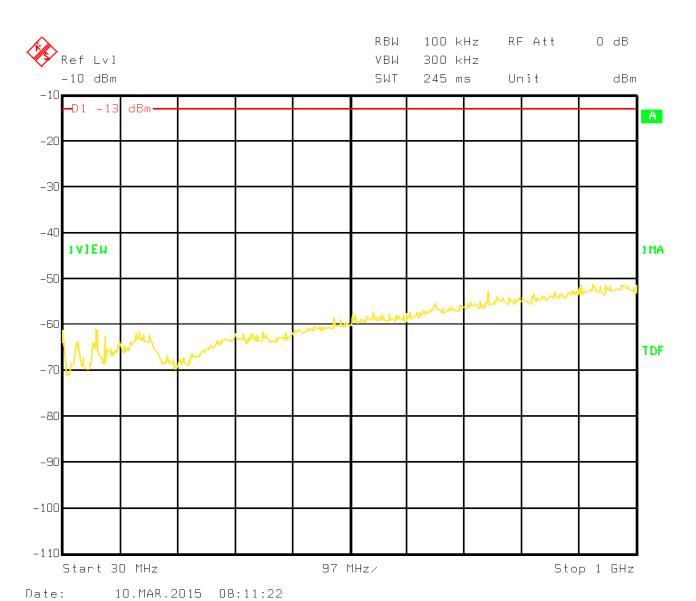




Date: 10.MAR.2015 08:13:32

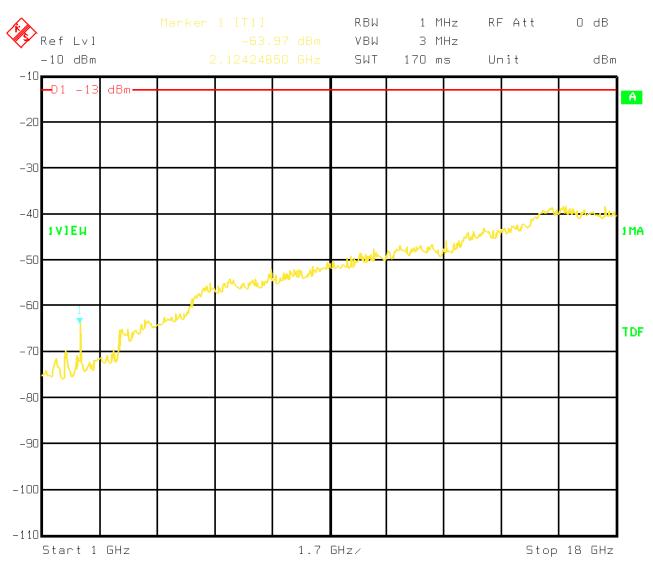
30MHz-1GHz - H Pol





30MHz-1GHz - V Pol

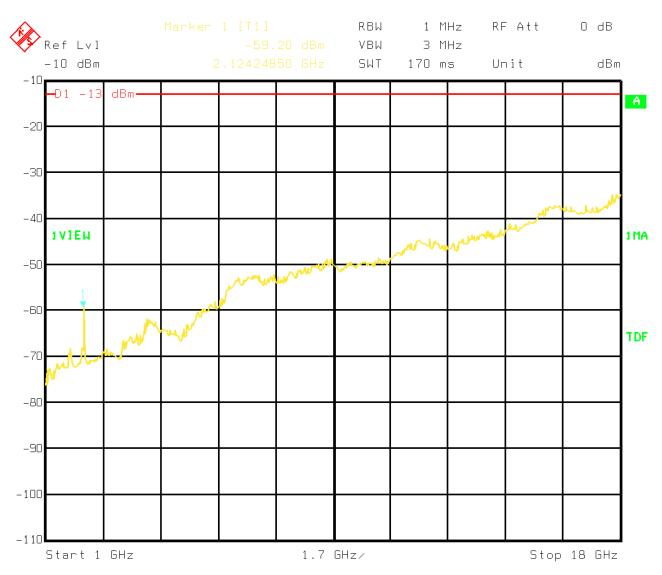




Date: 10.MAR.2015 11:02:37

1GHz-18GHz - H Pol

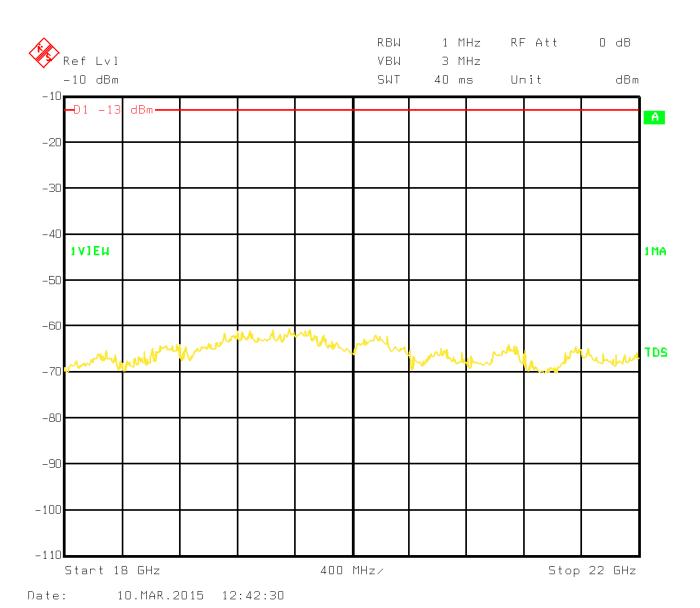




Date: 10.MAR.2015 10:59:30

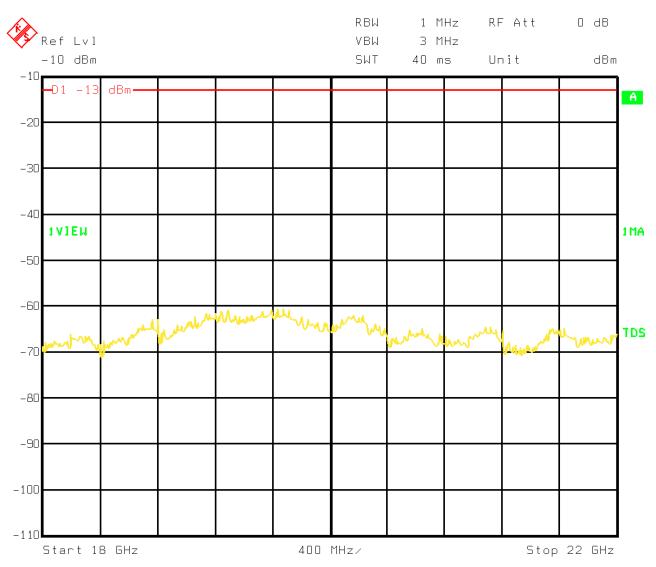
1GHz-18GHz - V Pol





18GHz-22GHz - H Pol





Date: 10.MAR.2015 12:44:59

18GHz-22GHz - V Pol



Product: TRL7S8SC8A19AW23AS

Specification: FCC 27

Clause 2.1049 Occupied bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test date: 2015-03-09

Test results: Pass

Special notes

- 26 dBc points provided in terms of attenuation below unmodulated carrier.
- RBW was set to 1 % of emissions bandwidth.



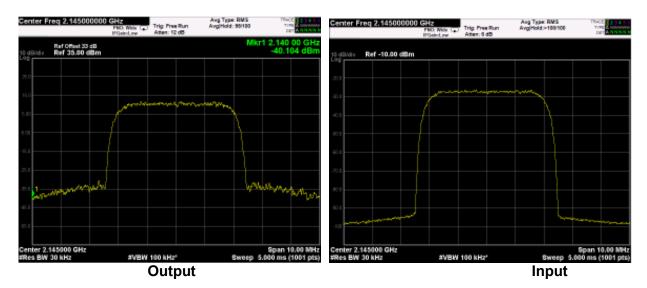
Clause 2.1049 Occupied bandwidth, continued

Test data

Mod. CDMA (Down-link)

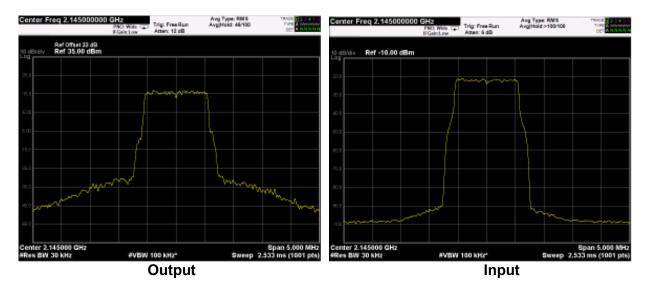


Mod. WCDMA (Down-link)

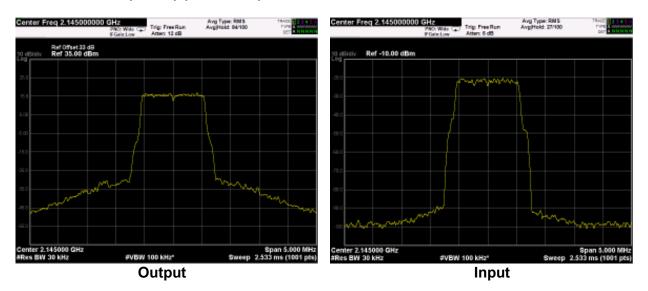




Mod. LTE 1.4MHz (QAM) (Down-link)

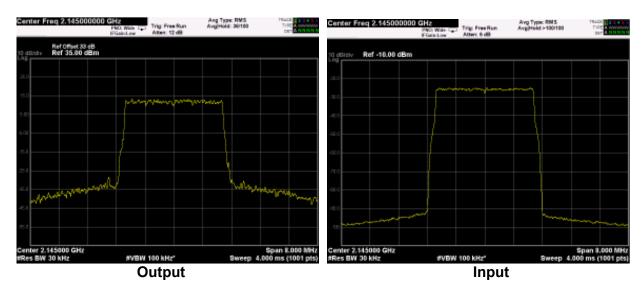


Mod. LTE 1.4MHz (QPSK) (Down-link)

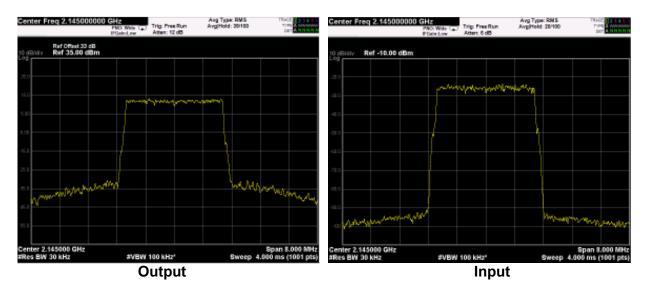




Mod. LTE 3MHz (QAM) (Down-link)

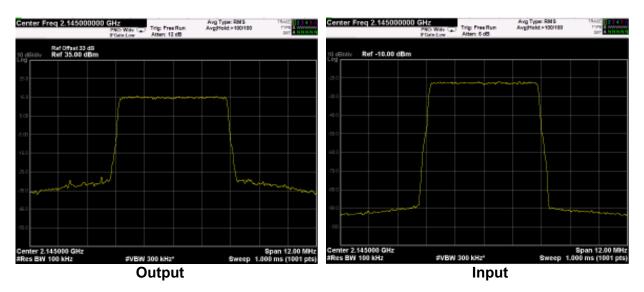


Mod. LTE 3MHz (QPSK) (Down-link)





Mod. LTE 5MHz (QAM) (Down-link)



Mod. LTE 5MHz (QPSK) (Down-link)

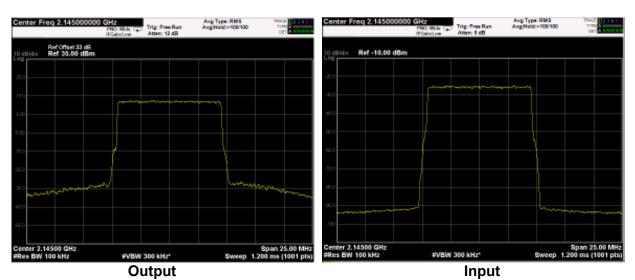




Mod. LTE 10MHz (QAM) (Down-link)



Mod. LTE 10MHz (QPSK) (Down-link)

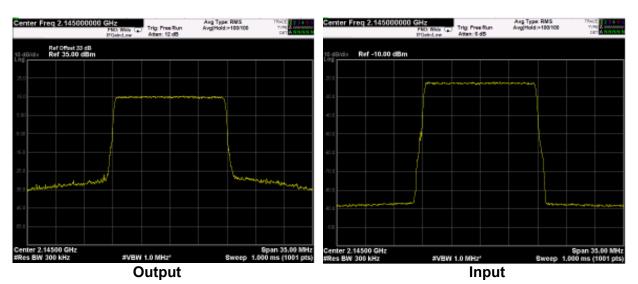




Mod. LTE 15MHz (QAM) (Down-link)



Mod. LTE 15MHz (QPSK) (Down-link)





Mod. LTE 20MHz (QAM) (Down-link)



Mod. LTE 20MHz (QPSK) (Down-link)

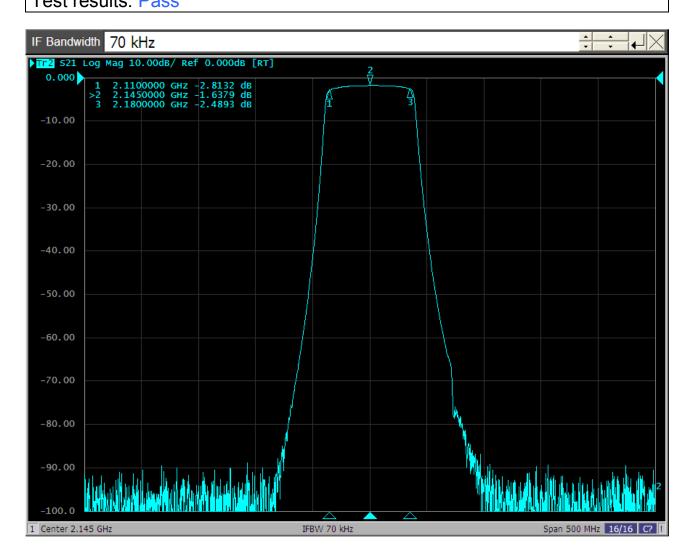




Clause 935210 D02v02r01 (D.3)(I) Out of band rejection

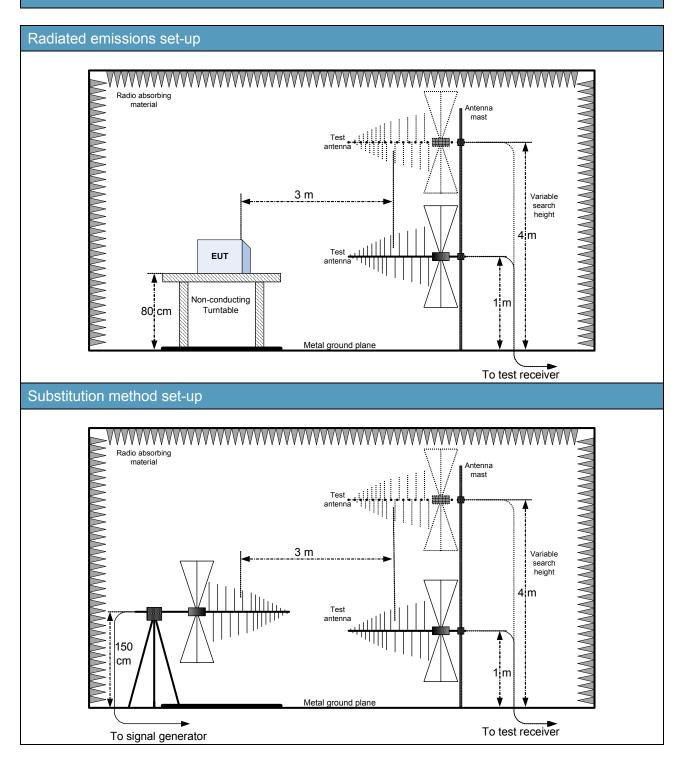
Out of Band Rejection – Test for rejection of out of band signals. Filter frequency response plots are acceptable.

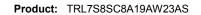
Test date: 2015-03-09
Test results: Pass





Appendix B: Block diagrams of test set-ups





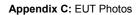


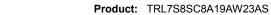
Appendix C: EUT Photos

Photo Set up





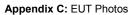




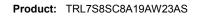








Nemko



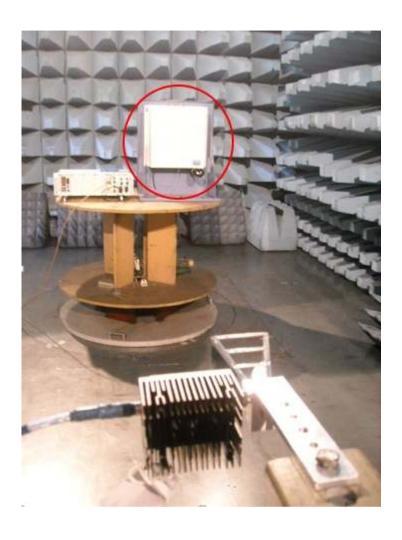




Photo EUT





