

Report Reference ID:	278614-5TRFWL
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Title 47 – Telecommunication
Chapter I – Federal Communications Commission
Subchapter A – General
Part 24 – Personal Communication Services
Subpart E – Broadband PCS

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
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20853 Biassono (MB) – Italy
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	Name and title	Date	
Tested by:	Corioni &	2015-03-11	
rested by.	G. Curioni, Wireless/EMC Specialist		
Reviewed by:	P. Barbieri, Wireless/EMC Specialist	2015-03-11	

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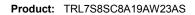




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Specification: FCC 24 Subpart E

Section 1: Report summary

This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko Spa.

Test specification:

FCC Part 24 Subpart E, Broadband PCS

Compliance status:	Complies
Exclusions:	None
Non-compliances:	None
Report release history:	Original release
Test location:	Nemko Spa Via Del Carroccio, 4 – 20853 Biassono (MB) - Italy
Registration number:	481407 (10 m Semi anechoic chamber)

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.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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Specification: FCC 24 Subpart E

Section 2: Equipment under test

2.1 Identification of equipment under test (EUT)			
The following information identifies the EUT under test:			
Type of equipment: Remote Unit			
Product marketing name:	Teko Telecom Srl		
Model number:	TRL7S8SC8A19AW23AS		
Serial number:	140829001		
Nemko sample number:			
FCC ID:	XM2-EP23		
Date of receipt:	2015-03-09		



Specification: FCC 24 Subpart E

2.2 Accessories and support equipment The following information identifies accessories used to exercise the EUT during testing:				
No other FCC-ID equipment are 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 24 Subpart E

Section 2: Equipment under test, continued

2.3 EUT description

See confidential block diagram and operational description

2.4 Technical specifications of the EUT

Operating band:	Down Link 1930-1995 MHz; Up Link 1850-1915 MHz		
Operating frequencies:	Wideband		
Modulation type:	GSM, EDGE, CDMA, WCDMA, LTE (QAM and QPSK)		
Occupied bandwidth:	GSM and EDGE: 200 kHz;		
-	CDMA: 1,25 MHz,		
	WCDMA: 5 MHz		
	LTE: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz		
Channel spacing:	Standard		
Emission designator:	GSM and EDGE: GXW;		
	CDMA, WCDMA: F9W,		
	LTE: D7W		
RF Output	Down Link: 31dBm (1,25W)		
	Up Link: N.A. (The EUT does not transmit over the air in the		
	up-link direction)		
Gain	Down Link: 36dB		
	Up Link: N.A. (The EUT does not transmit over the air in the		
	up-link direction)		
Antenna data:	No antenna provided		
Antenna type:	No antenna provided		
	External Antenna		
	(Equipment that has an external 50 Ω RF connector)		
Power source	100-240 Vac		

Product: TRL7S8SC8A19AW23AS Section 2: Equipment under test

Specification: FCC 24 Subpart E

Section 2: Equipment under test, continued

2.5 **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.

Operation of the EUT during testing

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

2.7 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment



Specification: FCC 24 Subpart E

Section 3: Test conditions

3.1 Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

3.2 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 3: Test conditions Product: TRL7S8SC8A19AW23AS

Specification: FCC 24 Subpart E

Section 3: Test conditions, continued

3.3 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.

3.4 Test equ	ipment			
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

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



Specification: FCC 24 Subpart E

Section 4: Result summary

4.1 Test results

The apparatus was assessed against the following specifications:

FCC Part 2 Subpart J, Equipment Authorization Procedures FCC Part 24 Subpart E, Broadband PCS

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

N	No : not applicable / not relevant.
Υ	Yes: Mandatory i.e. the apparatus shall conform to these tests.
N/T	Not Tested, mandatory but not assessed. (See report summary)

Part	Test method	Test description	Required	Result
§24.232(a)	2.1046	Power and antenna height limits	Y	Pass
_	2.1049	Occupied bandwidth	Y	Pass
§24.238(a)	2.1051	Spurious emissions at the antenna terminal	Y	Pass
§24.238(a)	2.1053	Field strength of spurious radiation	Y	Pass
§24.235	2.1055	Frequency stability	N	N/A a)
§ 935210				
D02v02r01	_	Out of band rejection	Υ	Pass
(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 24 Subpart E

Appendix A: Test results

Clause 24.232(a) Power and antenna height limits

- (a) (1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.
- (a) (2) Base stations with an emission bandwidth greater than 1 MHz are limited to 1640 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.
- (d) 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 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. 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

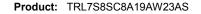
Special notes

Conducted measurement were performed:

- 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-to-average ratio (PAR) of the transmission may not exceed 13dB

Only conducted measurement at antenna connector was possible, no antenna provided by manufacturer





Clause 24.232(a) Equivalent isotropically radiated power limits, continued

Test data

Conducted measurements

Test data						
Direction	Modulation	Frequency (MHz)	RF output channel Power (dBm)	RF output channel Power (W)	PAR (dB)	
Down-link	GSM (200 kHz)	1962.5	31.16	1.31	0,07	
Down-link	EDGE (200 kHz)	1962.5	31.14	1.30	3,25	
Down-link	CDMA (1,25MHz)	1962.5	31.12	1.29	9,07	
Down-link	WCDMA (5MHz)	1962.5	31.12	1.29	10,62	
Down-link	LTE (QAM, 1,4MHz)	1962.5	31.16	1.31	10,09	
Down-link	LTE (QPSK, 1,4MHz)	1962.5	31.14	1.30	9,47	
Down-link	LTE (QAM, 3MHz)	1962.5	31.19	1.32	10,29	
Down-link	LTE (QPSK, 3MHz)	1962.5	31.10	1.29	10,48	
Down-link	LTE (QAM, 5MHz)	1962.5	31.20	1.32	10,66	
Down-link	LTE (QPSK, 5MHz)	1962.5	31.11	1.29	10,26	
Down-link	LTE (QAM, 10MHz)	1962.5	31.18	1.31	10,93	
Down-link	LTE (QPSK, 10MHz)	1962.5	31.15	1.30	10,60	
Down-link	LTE (QAM, 15MHz)	1962.5	31.19	1.32	10,40	
Down-link	LTE (QPSK, 15MHz)	1962.5	31.12	1.29	11,08	
Down-link	LTE (QAM, 20MHz)	1962.5	31.15	1.30	10,23	
Down-link	LTE (QPSK, 20MHz)	1962.5	31.19	1.32	10,54	

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:



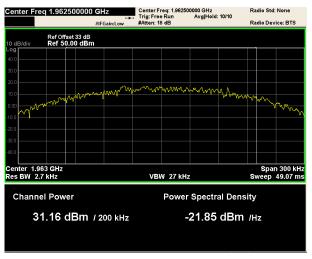
PAR measure example (LTE 1,4MHz QAM)



Specification: FCC 24 Subpart E

Test data

Mod. GSM



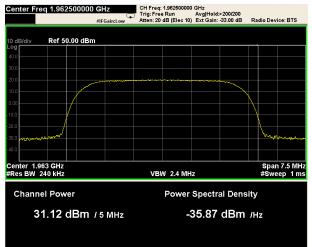
Mod. EDGE



Mod. CDMA



Mod. WCDMA



Specification: FCC 24 Subpart E

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

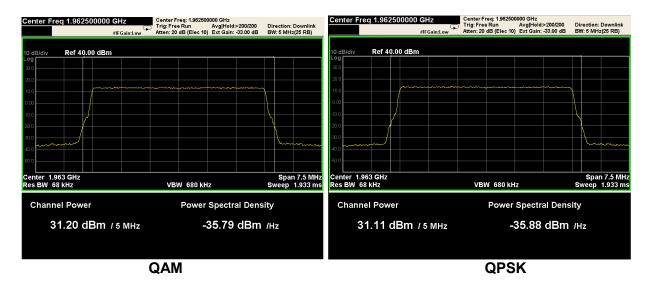


Mod. LTE 3MHz (Down-link)



Specification: FCC 24 Subpart E

Mod. LTE 5MHz (Down-link)



Mod. LTE 10MHz (Down-link)

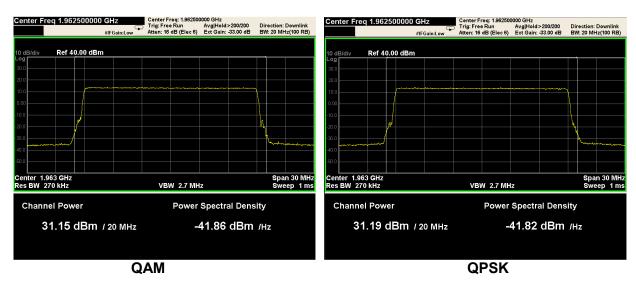


Specification: FCC 24 Subpart E

Mod. LTE 15MHz (Down-link)



Mod. LTE 20MHz (Down-link)





Specification: FCC 24 Subpart E

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.

Assigned frequency range, MHz	Occupied bandwidth, dBc
1850–1910	−26

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

Special notes

Resolution bandwidth was set wider or equal than occupied bandwidth.



Product: TRL7S8SC8A19AW23AS

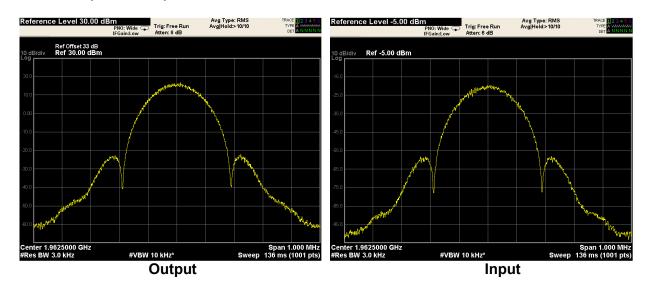
Clause 2.1049 Occupied bandwidth, continued

Test data

Mod. GSM (Down-link)



Mod. EDGE (Down-link)

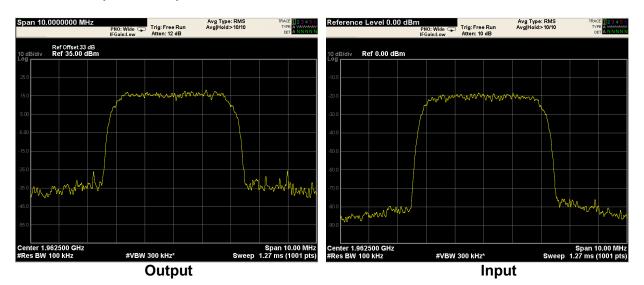




Mod. CDMA (Down-link)

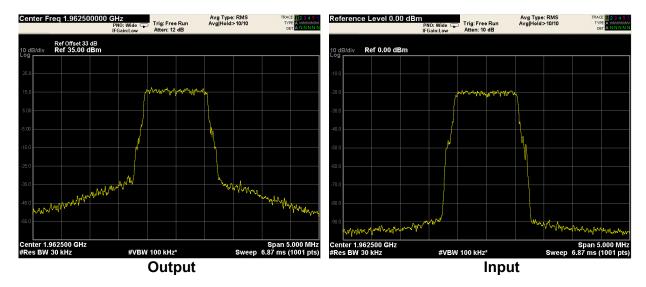


Mod. WCDMA (Down-link)

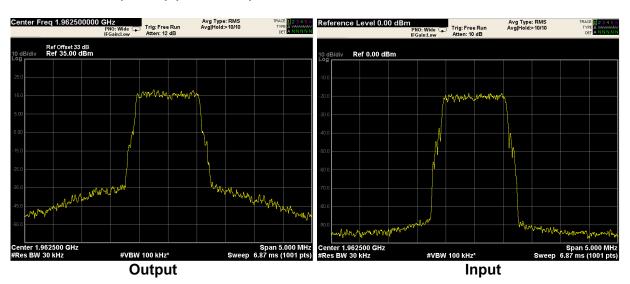




Mod. LTE 1.4MHz (QAM) (Down-link)



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

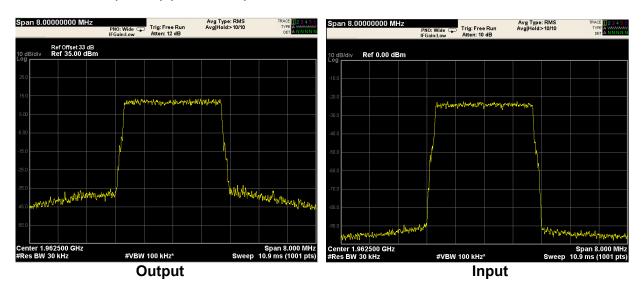




Mod. LTE 3MHz (QAM) (Down-link)

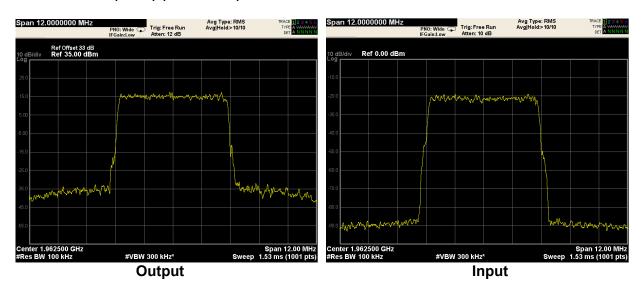


Mod. LTE 3MHz (QPSK) (Down-link)

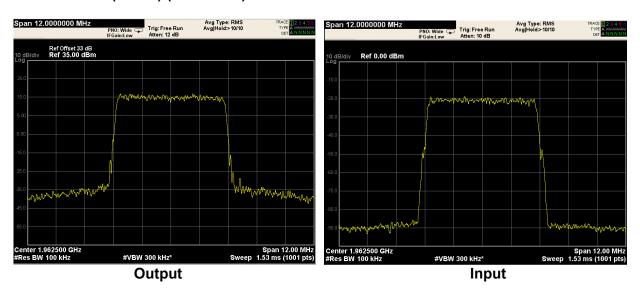




Mod. LTE 5MHz (QAM) (Down-link)



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

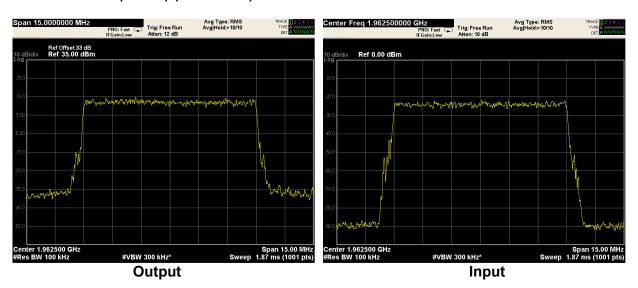




Mod. LTE 10MHz (QAM) (Down-link)



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





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



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

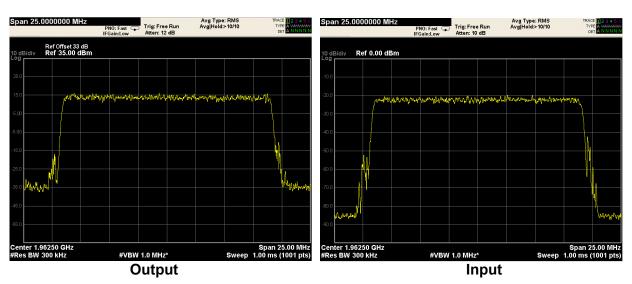




Mod. LTE 20MHz (QAM) (Down-link)



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





Specification: FCC 24 Subpart E

Clause 24.238(a) Spurious emissions at antenna terminal

a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 Log (P) dB.

Frequency,	Attenuation below carrier,	ERP of spurious,
MHz	dBc	dBm
30–10 th harmonic	43 + 10 Log(P)	-13

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

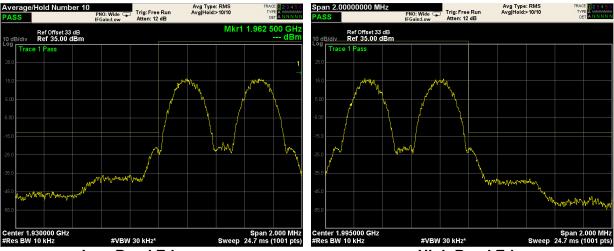
Special notes

- The spectrum was searched from 30 MHz up to 10th harmonic
- Only the worst data presented in the test report.
- (b) *Measurement procedure*. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.* 1 MHz or 1 percent of emission bandwidth, as specified).



Clause 24.238(a), continued: band edges inter modulation

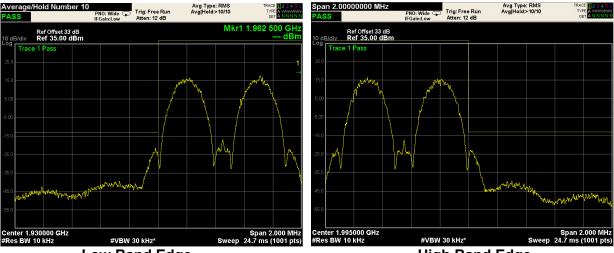
Mod. GSM (Down-link)



Low Band Edge

High Band Edge

Mod. EDGE (Down-link)



Low Band Edge

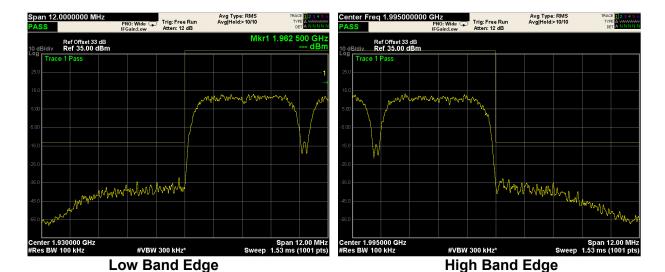
High Band Edge



Mod. CDMA (Down-link)



Mod. WCDMA (Down-link)

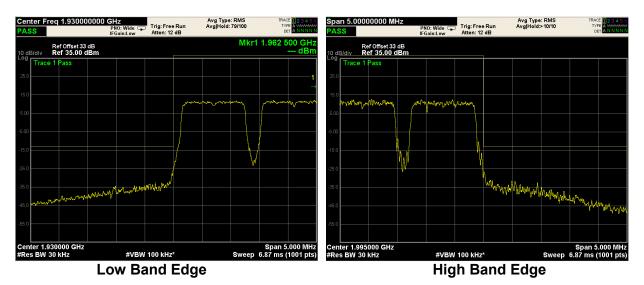




Mod. LTE 1.4MHz (QAM) (Down-link)

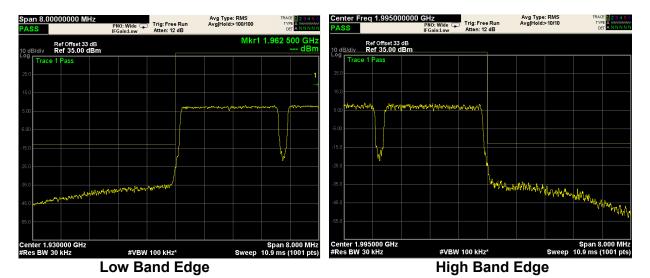


Mod. LTE 1.4MHz (QPSK) (Down-link)

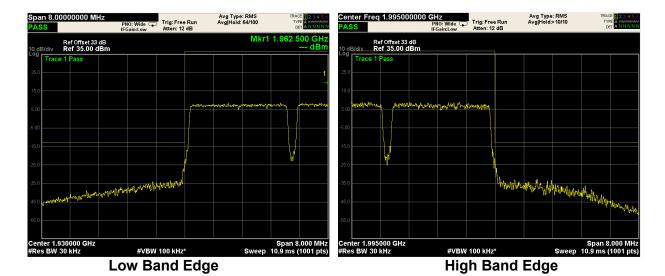




Mod. LTE 3MHz (QAM) (Down-link)



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)

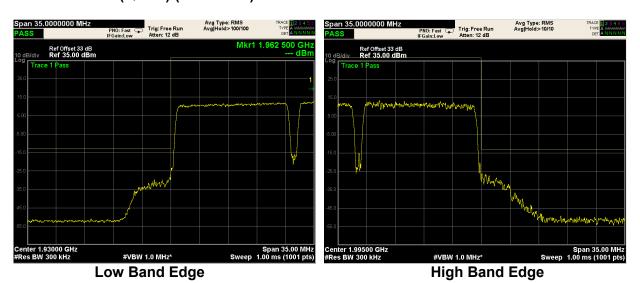




Mod. LTE 15MHz (QAM) (Down-link)



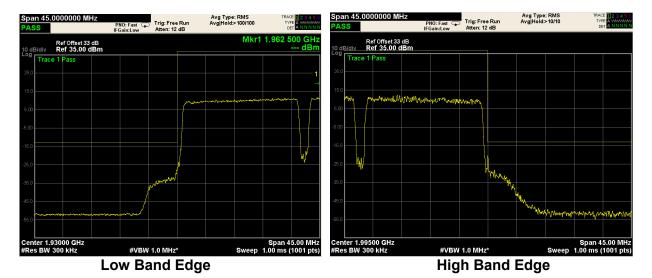
Mod. LTE 15MHz (QPSK) (Down-link)





Product: TRL7S8SC8A19AW23AS

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



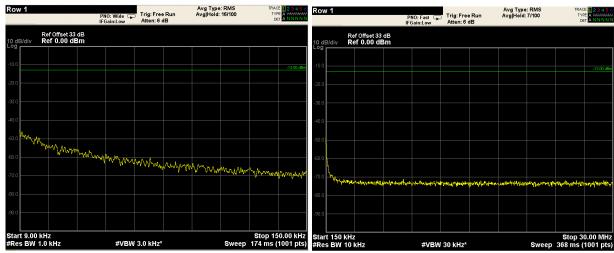
Mod. LTE 20MHz (QPSK) (Down-link)



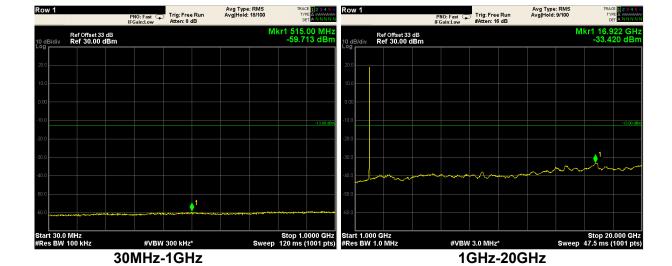


Clause 24.238(a), continued: spurious emissions at antenna terminal

Mod. GSM (Down-link)

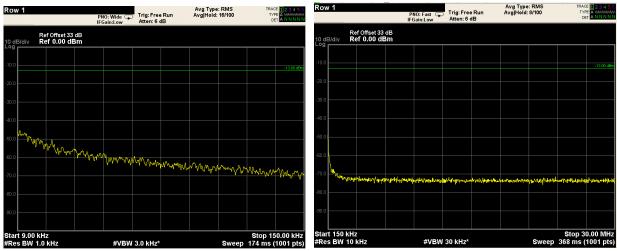


9kHz-150kHz 150kHz-30MHz

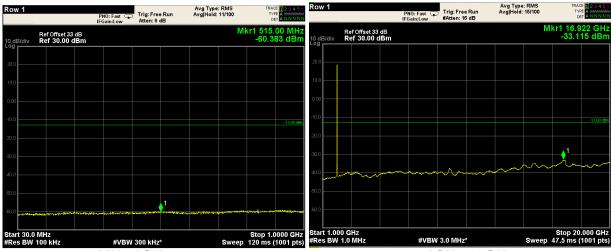




Mod. EDGE (Down-link)

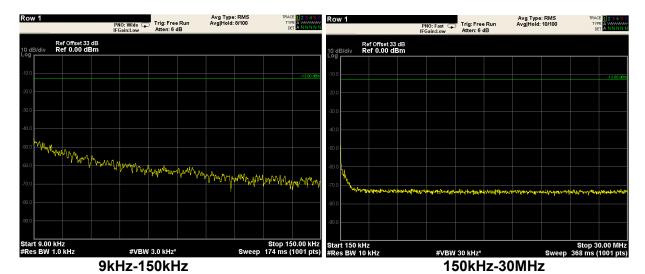


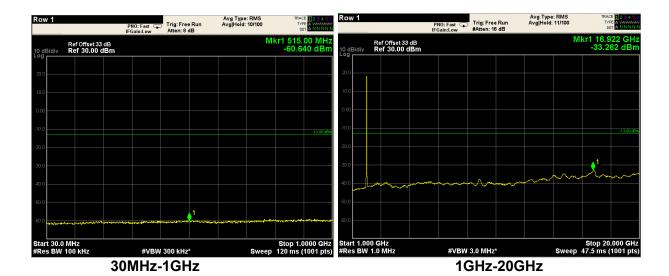
9kHz-150kHz 150kHz-30MHz





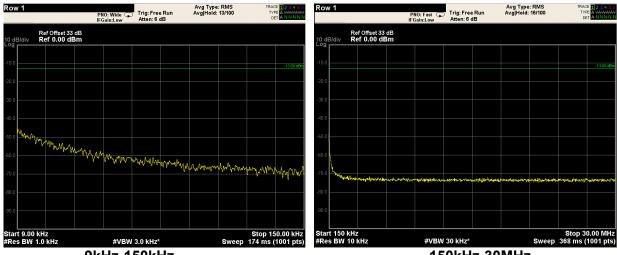
Mod. CDMA (Down-link)



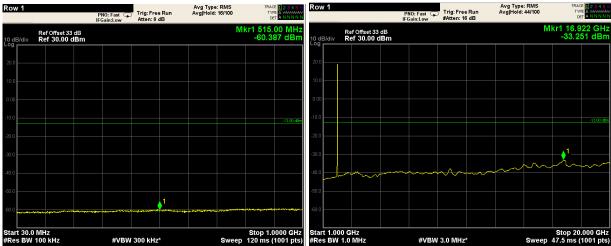




Mod. WCDMA (Down-link)



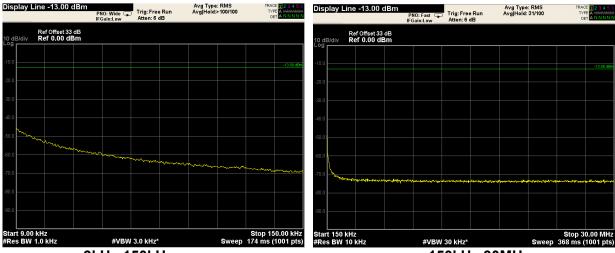
9kHz-150kHz 150kHz-30MHz



30MHz-1GHz 1GHz-20GHz



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



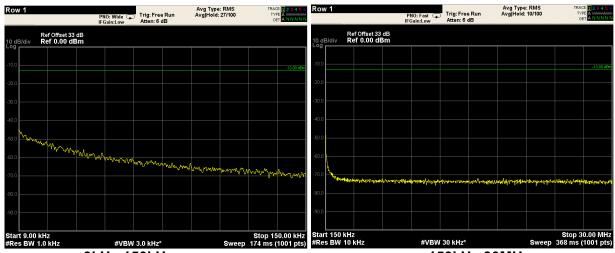
9kHz-150kHz 150kHz-30MHz



30MHz-1GHz 1GHz-20GHz



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



9kHz-150kHz

150kHz-30MHz

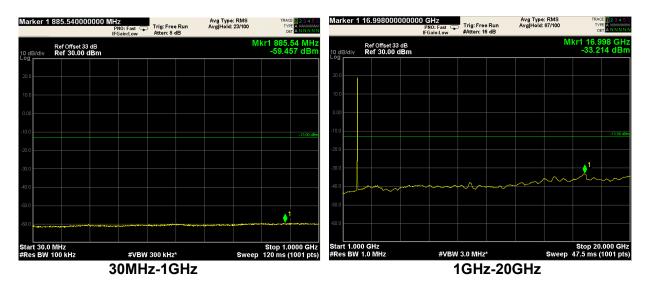


30MHz-1GHz

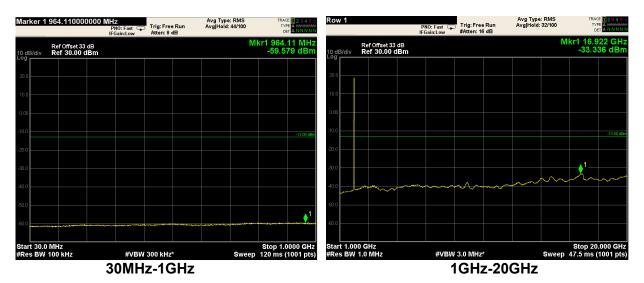
1GHz-20GHz



Mod. LTE 3MHz, only 30M-20G plot (Down-link)

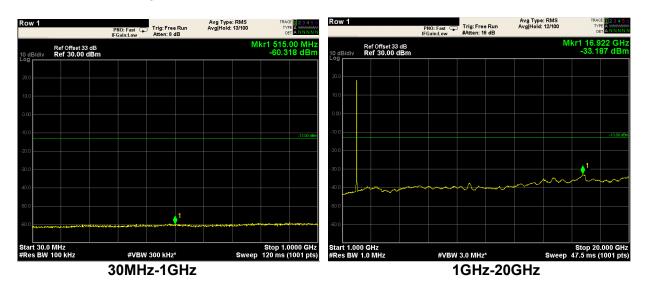


Mod. LTE 5MHz, only 30M-20G plot (Down-link)

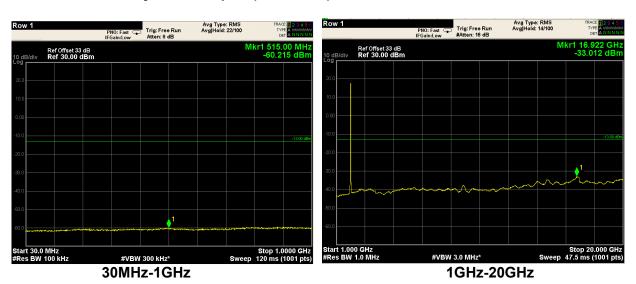




Mod. LTE 10MHz, only 30M-20G plot (Down-link)

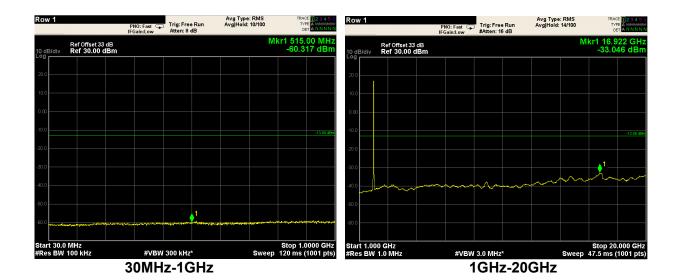


Mod. LTE 15MHz, only 30M-20G plot (Down-link)





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





Clause 24.238(a) Field strength of spurious radiation

a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 Log (P) dB.

Appendix A: Test results

Frequency, MHz	Attenuation below carrier, dBc	ERP of spurious, dBm	Equivalent field strength limit* at 3 m, dBµV/m
30–10 th harmonic	43 + 10 Log(P)	-13	84.4

^{* -} Equivalent field strength limit was calculated from maximum allowed ERP of spurious as follows:

$$E = \sqrt{\frac{30 \times P \times 1.64}{r}}$$
, where *P* is ERP in W, 1.64 is numeric gain of ideal dipole and *r* is antenna to EUT distance in m.

Test date: 2015-03-10

Test results: Pass

Special notes

- The spectrum was searched from 30 MHz up to 10th harmonic
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- The EUT's antenna port was terminated with 50 Ω termination
- (b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

Test data

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

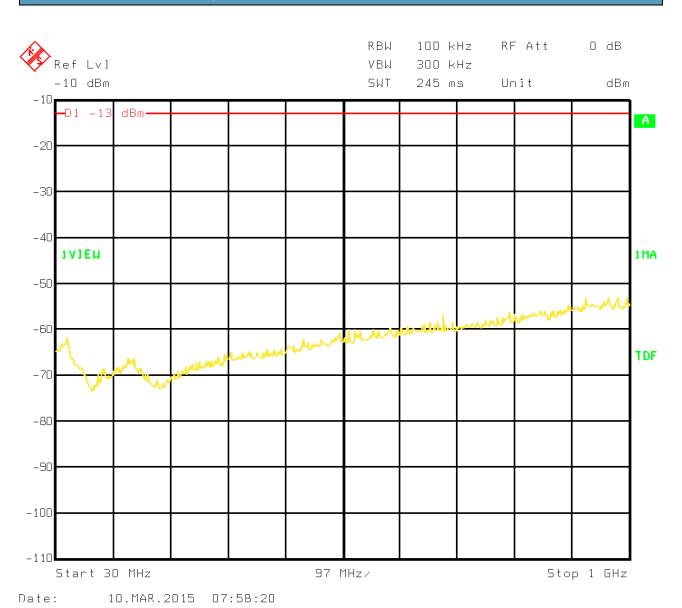
The D.U.T. antenna connector was terminated by a 50 Ω shielded dummy load.

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.

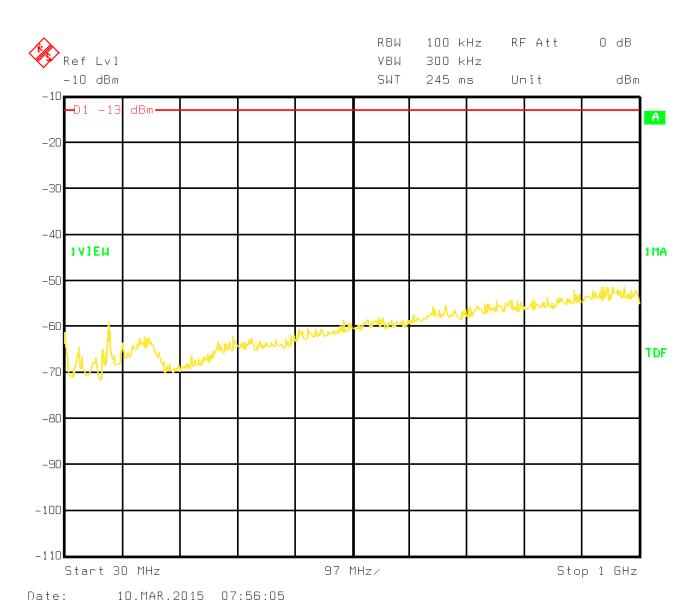


Clause 24.238(a) Field strength of spurious radiation, continued



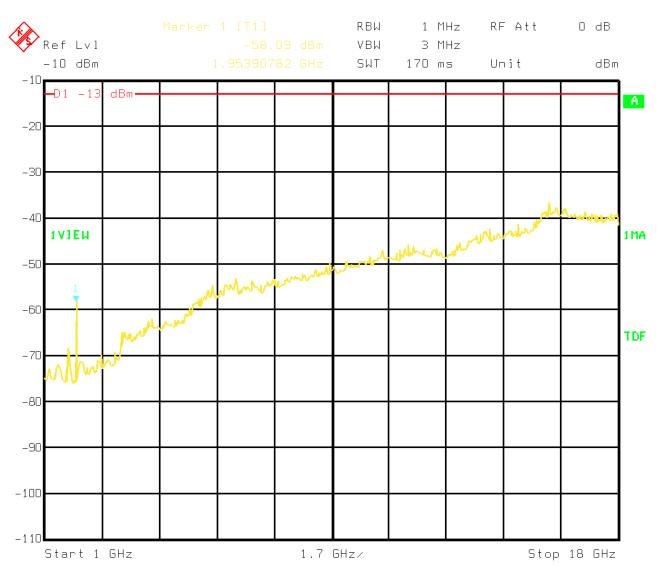
30MHz-1GHz - H Pol





30MHz-1GHz - V Pol

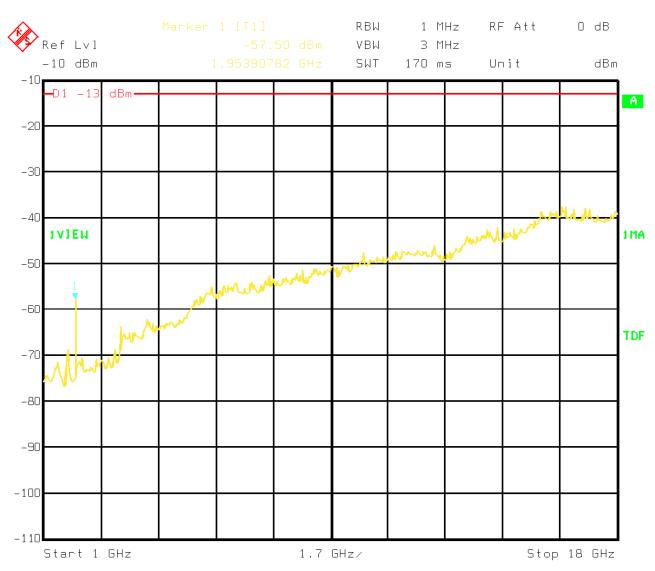




Date: 10.MAR.2015 11:15:50

1GHz-18GHz - H Pol

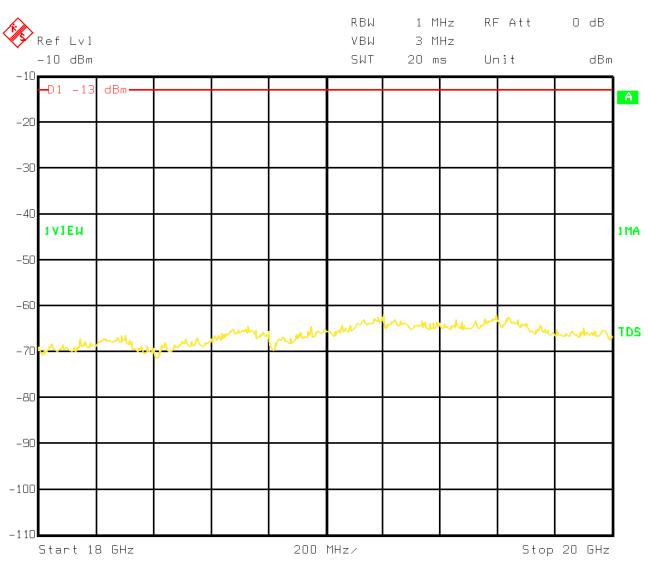




Date: 10.MAR.2015 11:12:35

1GHz-18GHz - V Pol

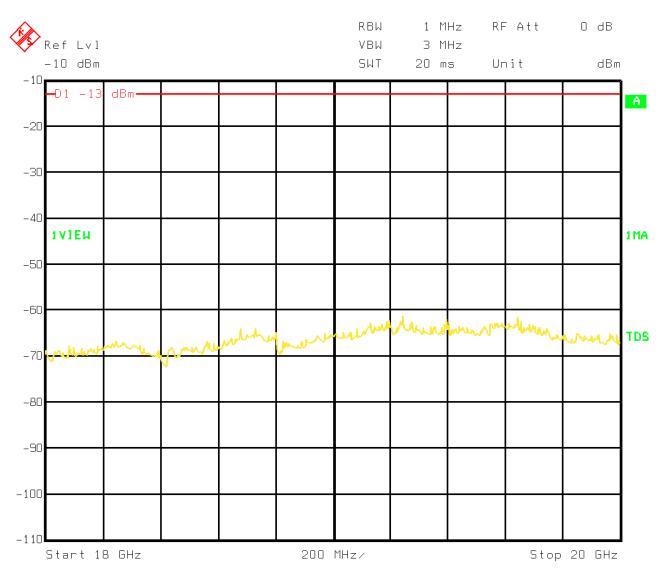




Date: 10.MAR.2015 12:17:28

18GHz-20GHz - H Pol





Date: 10.MAR.2015 12:31:41

18GHz-20GHz - V Pol



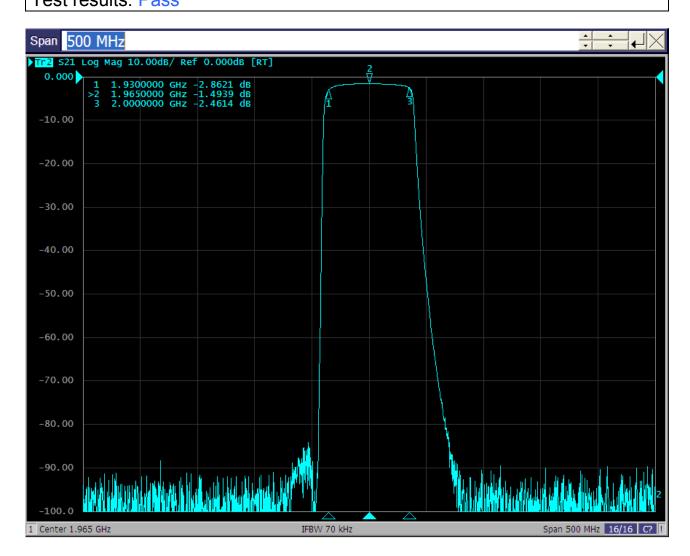
Product: TRL7S8SC8A19AW23AS

Specification: FCC 24 Subpart E

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.

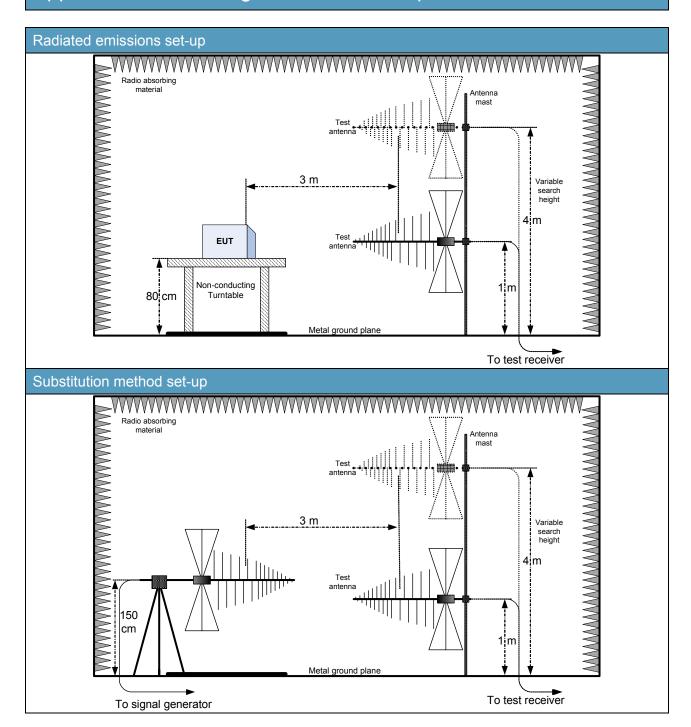
Test date: 2015-03-09
Test results: Pass

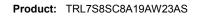




Product: TRL7S8SC8A19AW23AS

Appendix B: Block diagrams of test set-ups





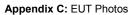


Appendix C: EUT Photos

Photo Set up

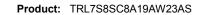






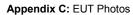
Nemko

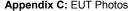












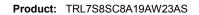


Photo EUT







