

Report Reference ID:	283765-1TRFWL
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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:	TRU2325WE/AC-WT
FCC ID:	XM2-EP2325

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
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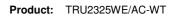
This Test Report, when bearing the Nemko name and logo is only valid when issued by a Nemko laboratory, or by a laboratory having special agreement with Nemko.





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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		
Test description	Verdict	
Peak output power at RF antenna connector	Pass	
Spurious emissions at RF antenna connector, continued	Pass	
Radiated spurious emissions	Pass	
Frequency stability	N/A a)	
Occupied bandwidth	Pass	
Out of band rejection	Pass	
	Test description Peak output power at RF antenna connector Spurious emissions at RF antenna connector, continued Radiated spurious emissions Frequency stability Occupied bandwidth	

Notes:

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

Nèmko

Specification: FCC 27

Product: TRU2325WE/AC-WT

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

3.1 Applicant of	Notaile	
		Taka Talagara Cul
Applicant	Name:	Teko Telecom Srl
complete	Federal	0040000400
business name	Registration	0018963462
	Number (FRN):	N/1 / 0
	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	quipmont	
a) Single modular	Single modular appro	
approval	Yes 🗌	No ⊠
b) Limited single	Limited single modular approval	
modular approval	Yes 🗌	No 🛛
3.3 Product de	etails	
FCC ID	Grantee code:	XM2
	Product code:	-EP2325
Equipment class	B2I	
Description of	Remote Unit for option	cal system
product as it is	Model	TRU2325WE/AC-WT
marketed	name/number:	THU2323VVE/AG-VVT
	Serial number:	1001130001
3.4 Application	n purpose	
Type of	☐ Original certi	ification
application		lentification of presently authorized equipment
	Original FCC	
	_	nissive change or modification of presently authorized
	equipment	missive change of modification of presently authorized



Specification: FCC 27

Section 3: Equipment under test

3.5 Composite	e/related equipment
a) Composite equipment	The EUT is a composite device subject to an additional equipment authorization
equipment	Yes ☐ No ⊠
b) Related equipment	The EUT is part of a system that operates with, or is marketed with, another device that requires an equipment authorization Yes □ No ⊠
c) Related FCC ID	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 inf	mple information		
Receipt date:	2015-05-18		
Nemko sample ID number:			

3.7 EUT technical specifications					
Operating band:	Down Link: 2350–2360 MHz, Up Link: 2305-2315 MHz				
Operating frequency:	Wideband				
Modulation type:	LTE (QAM and QPSK)				
Occupied bandwidth:	LTE: 5 MHz, 10 MHz				
Channel spacing:	standard				
Emission designator:	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 type:	External Antenna is not provided, equipment that has an external 50 Ω RF connector				
Power source:	100-240 Vac				



Specification: FCC 27

Section 3: Equipment under test

3.8 Accessories and support equipment					
The following information identifies accessories used to exercise the EUT during testing:					
Item # 1	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.



Judgment

None

Specification: FCC 27

Product: TRU2325WE/AC-WT

4.1 Modifications 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 judgment



Specification: FCC 27

Section 5: Test conditions

5.1 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 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	May 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	06/2015
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	06/2015
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	04/2016
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

Note: 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(a) Peak output power at RF antenna connector

- § 27.50(a) The following power limits and related requirements apply to stations transmitting in the 2305-2320 MHz band or the 2345-2360 MHz band:
 - (1) Base and fixed stations.
 - (i) For base and fixed stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band:
 - (A) The average equivalent isotropically radiated power (EIRP) must not exceed 2,000 watts within any 5 megahertz of authorized bandwidth and must not exceed 400 watts within any 1 megahertz of authorized bandwidth.
 - (B) The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

Test date: 2015-05-20
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-to-average ratio (PAR) of the transmission may not exceed 13dB



Clause 27.50(a) 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	LTE (QAM, 5MHz)	2355.0	31.12	1.29	0.258	9.63
Down-link	LTE (QPSK, 5MHz)	2355.0	31.08	1.28	0.256	9.49
Down-link	LTE (QAM, 10MHz)	2355.0	31.15	1.30	0.130	9.81
Down-link	LTE (QPSK, 10MHz)	2355.0	31.17	1.31	0.131	9.66

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:



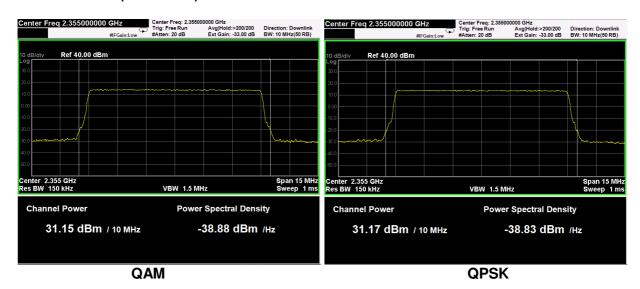
PAR measure example (LTE 10MHz QAM)



Mod. LTE 5MHz (Down-link)



Mod. LTE 10MHz (Down-link)





Specification: FCC 27

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

- (a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:
- (1) For base and fixed stations' operations in the 2305-2320 MHz band and the 2345-2360 MHz band:
- (i) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, and not less than 75 + 10 log (P) dB on all frequencies between 2320 and 2345 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 MHz, and 75 + 10 log (P) dB below 2285 MHz; (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2362.5 MHz, 55 + 10 log (P) dB on all frequencies between 2365 and 2367.5 MHz, 72 + 10 log (P) dB on all frequencies between 2365 and 2367.5 MHz, 72 + 10 log (P) dB on all frequencies between 2367.5 and 2370 MHz, and 75 + 10 log (P) dB above 2370 MHz.
- (5) 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 channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 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). 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.
- (7) 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: 2015-05-20
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.



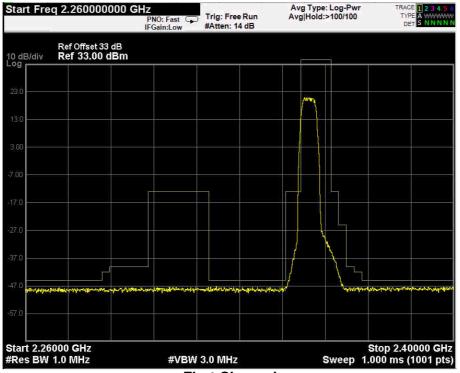
Clause 27.53 (h) Spurious emissions at RF antenna connector, continued

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			
2355 MHz	Negligible	-13	
High channel			
Last channel	Negligible	-13	

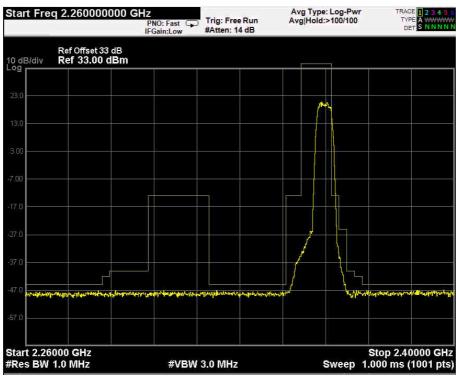


Test data, continued: clause 27.53 (a) (1)

Mod. LTE 5MHz (QAM/QPSK)



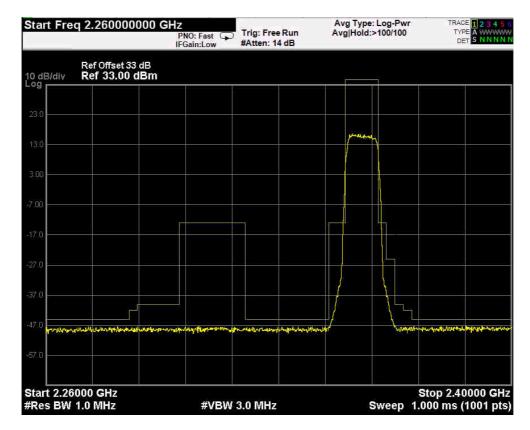
First Channel



Last Channel



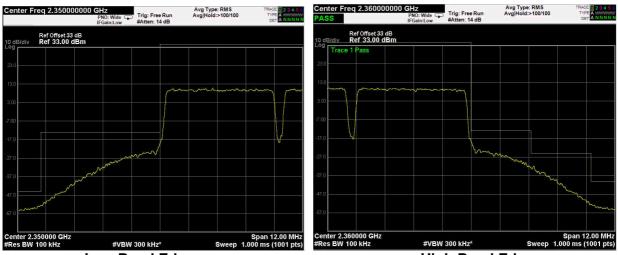
Mod. LTE 10MHz (QAM/QPSK)





Test data, continued: band edges Inter modulation

Mod. LTE 5MHz (QAM/QPSK)



Low Band Edge

High Band Edge

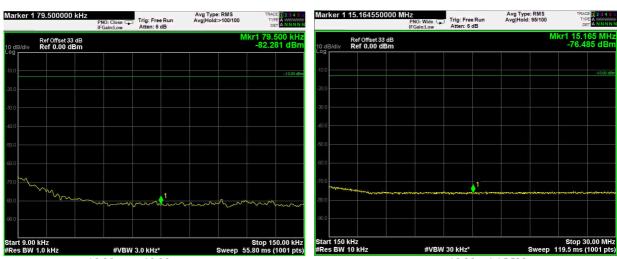
Mod. LTE 10MHz (QAM/QPSK)





Test data, continued: spurious emissions at antenna terminal

Mod. LTE 5MHz (QAM/QPSK)



9kHz-150kHz

150kHz-30MHz

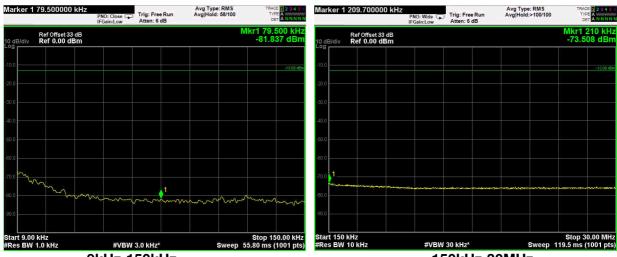


30MHz-1GHz

1GHz-23.7GHz



Mod. LTE 10MHz (QAM/QPSK)



9kHz-150kHz

150kHz-30MHz



30MHz-1GHz

1GHz-23.7GHz



Specification: FCC 27

Clause 27.53(a) Radiated Spurious emissions

- (a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:
- (1) For base and fixed stations' operations in the 2305-2320 MHz band and the 2345-2360 MHz band:
- (i) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, and not less than 75 + 10 log (P) dB on all frequencies between 2320 and 2345 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 MHz, and 75 + 10 log (P) dB below 2285 MHz; (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2362.5 MHz, 55 + 10 log (P) dB on all frequencies between 2365 and 2367.5 MHz, 72 + 10 log (P) dB on all frequencies between 2365 and 2367.5 MHz, 72 + 10 log (P) dB on all frequencies between 2367.5 and 2370 MHz, and 75 + 10 log (P) dB above 2370 MHz.
- (5) 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 channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 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). 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.
- (7) 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: 2015-05-20

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(a) 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.

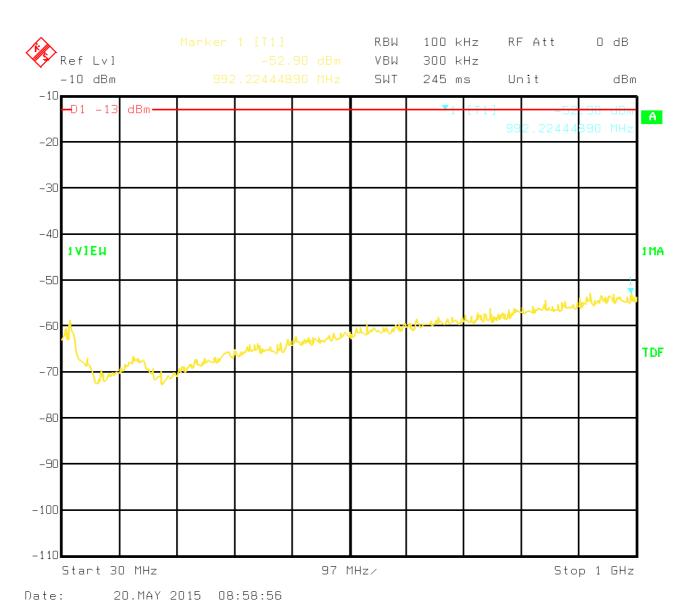
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

Frequency (MHz)	Polarization. V/H	Field strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
Low channel		,		,		
Mid channel						
High channel						

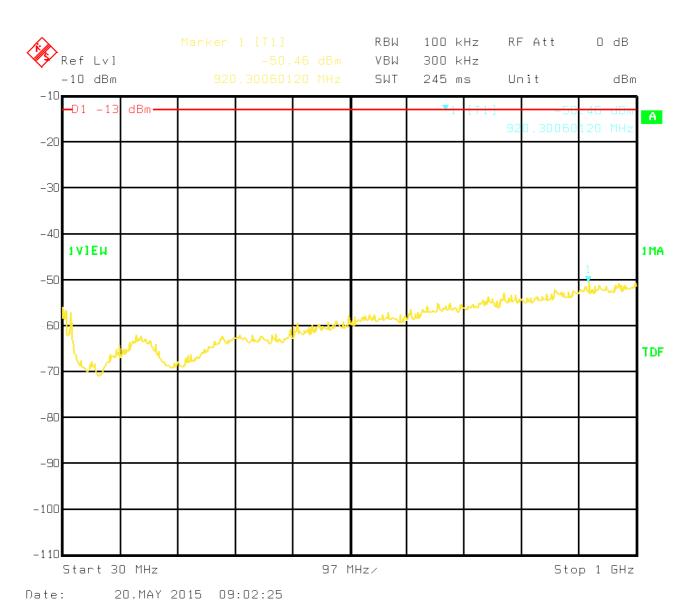
Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.





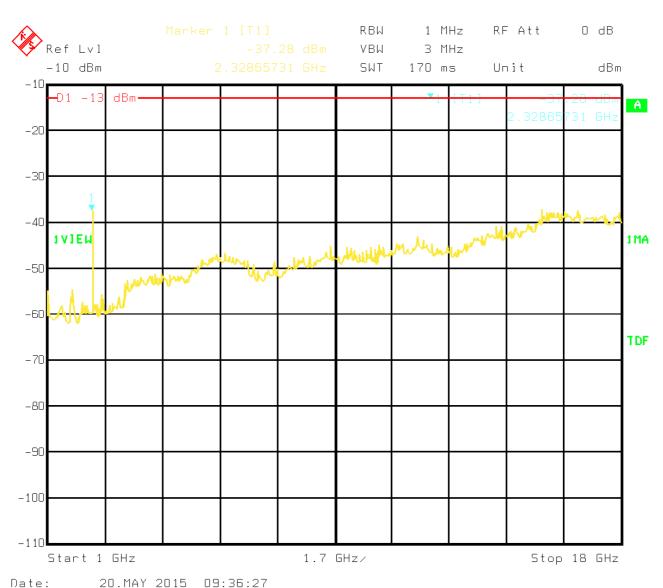
30MHz-1GHz – H Pol





30MHz-1GHz - V Pol

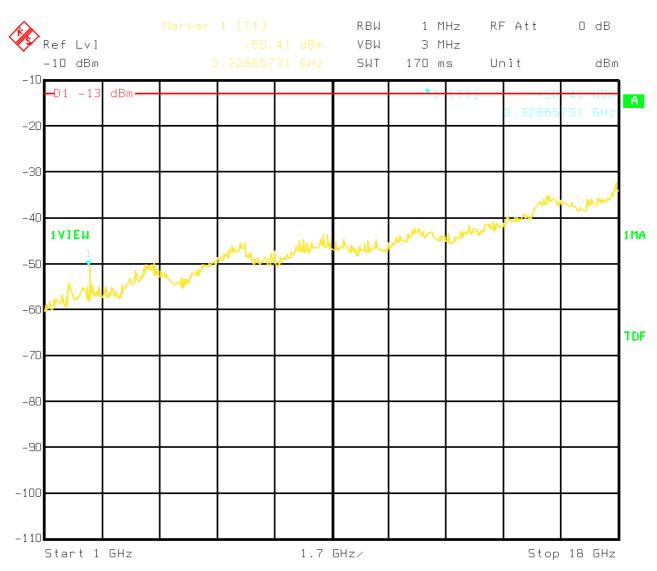




20.MAY 2015 09:36:27

1GHz-18GHz - H Pol

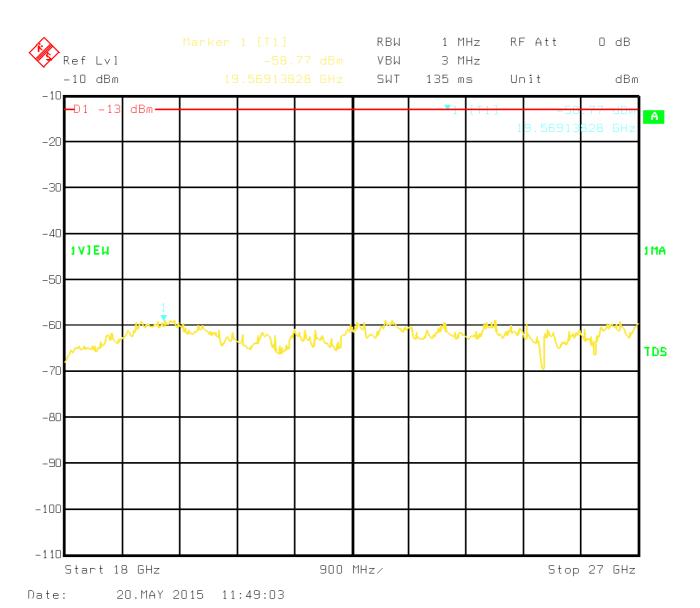




Date: 20.MAY 2015 09:40:32

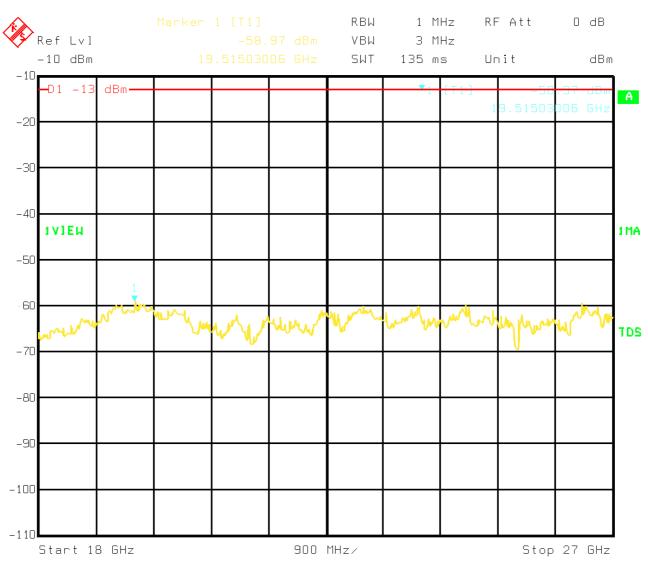
1GHz-18GHz - V Pol





18GHz-27GHz - H Pol





Date: 20.MAY 2015 11:45:51

18GHz-27GHz - V Pol



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: 2015-05-20

Test results: Pass

Special notes

26 dBc points provided in terms of attenuation below unmodulated carrier.

- RBW was set to 1 % of emissions bandwidth.



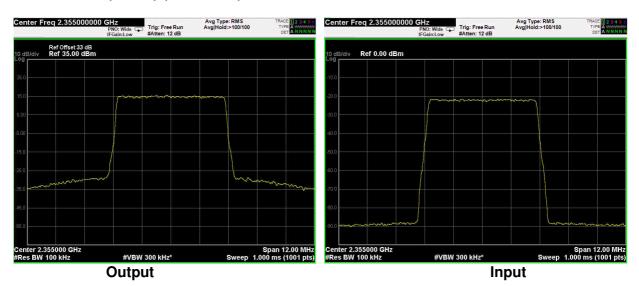
Clause 2.1049 Occupied bandwidth, continued

Test data

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



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

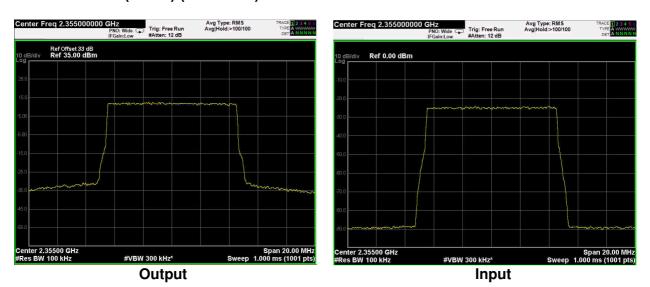




Mod. LTE 10MHz (QAM) (Down-link)



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



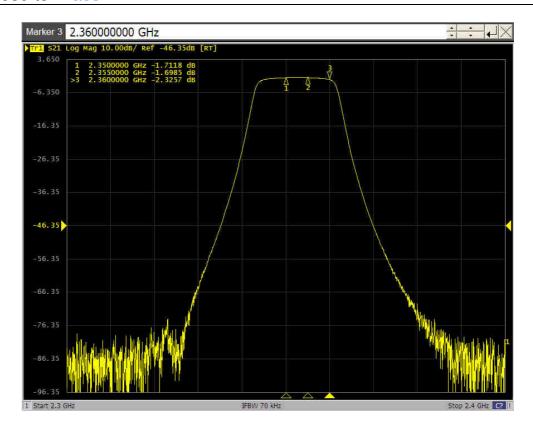


Clause 935210 D02v02r01 (D.3)(I) Out of band rejection

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

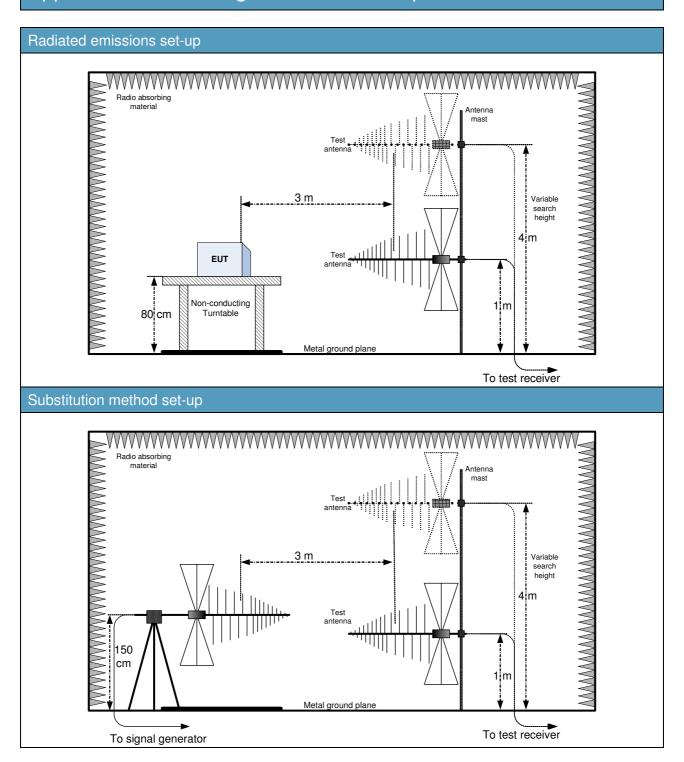
Test date: 2015-05-20

Test results: Pass





Appendix B: Block diagrams of test set-ups



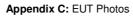


Appendix C: EUT Photos

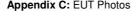
Photo Set up

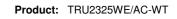






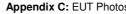
Nemko











Nemko



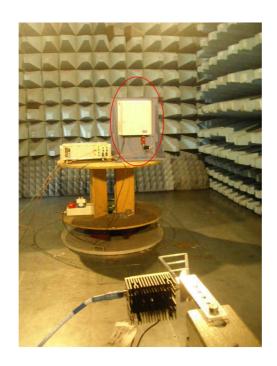
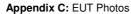




Photo EUT









Product: TRU2325WE/AC-WT



