

Report Reference ID:	332502-7TRFWL
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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:	Medium Power Remote Unit	
Model:	TRM7E8AE19HAWX23AT	
FCC ID:	XM2-MP6B	

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:	Curiori &	06/29/2017
	G. Curioni, Wireless/EMC Specialist	00/20/2011
Reviewed by:	Bulu Part	06/29/2017
Trovious by:	P. Barbieri, Wireless/EMC Specialist	00/20/2011

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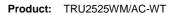
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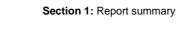
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Section 1: Report summary

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 ni	ımbı	ar .

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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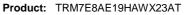


Section 2: Summary of test results

Part	Methods	Test description	Verdict
	§ 935210 D05v01r01 (3.2)	AGC threshold	Pass
	§ 935210 D05v01r01 (3.3)	Out of band rejection	Pass
§27.53(h)(3)	§ 935210 D05v01r01 (3.4)	Occupied bandwidth	Pass
§27.50(d)	§ 935210 D05v01r01 (3.5)	Peak output power at RF antenna connector	Pass
§27.53(h)	§ 935210 D05v01r01 (3.6)	Spurious emissions at RF antenna connector	Pass
§27.53(h)	§ 935210 D05v01r01 (3.8)	Radiated spurious emissions	Pass
§27.54	§ 935210 D05v01r01 (3.7)	Frequency stability	N/A a)

Notes:

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





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

3.1 Applicant of	lotaile		
Applicant	Name:	Teko Telecom Srl	
complete	Federal		
business name	Registration	0018963462	
	Number (FRN):		
	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			
a) Single modular	Single modular approval		
approval	Yes 🗌	No ⊠	
b) Limited single	Limited single modular approval		
modular approval	Yes □ No ⊠		
3.3 Product de	tails		
FCC ID	Grantee code:	XM2	
1 00 15	Product code:	-MP6B	
Equipment class	B2I	ואוו טט	
Description of	Booster		
product as it is	Model		
marketed		TRM7E8AE19HAWX23AT	
marketed	name/number:	4007004004	
	Serial number:	1007061001	
3.4 Application	purpose		
Type of	Original certi		
application	Change in id	entification of presently authorized equipment	
	Original FCC	CID: Grant date:	
	☐ Class II perm	nissive change or modification of presently authorized	
	equipment	, , , , , , , , , , , , , , , , , , , ,	
	Cquipinoni		

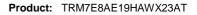


Section 3: Equipment under test

3.5 Composite/related equipment			
a) Composite	The EUT is a composite device subject to an additional equipment		
equipment	authorization		
	Yes □ No ⊠		
b) Related	The EUT is part of a system that operates with, or is marketed with,		
equipment	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	ormation
Receipt date:	06/26/2017
Nemko sample ID number:	

3.7 EUT techn	ical specifications
Operating band:	Down Link: 1995–2000 MHz, Up Link: 1915-1920 MHz
Operating frequency:	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: 33dBm (2W) Up Link: N.A. (The EUT does not transmit over the air in the up-link direction)
Gain	Down Link: 38dB 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





Section 3: Equipment under test

3.8 Accessories and	d support equipment
The following information id	entifies 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:	110942253
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:	081063004
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

Specification: FCC 27

Product: TRM7E8AE19HAWX23AT

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:

Technical judgment

None



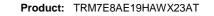
Specification: FCC 27

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	MY53051238	Jan 2018
Vector Signal Generator	Agilent	E4438C ESG	MY45094485	Ago 2019
Spectrum Analyzer	Agilent	N9030A PXA	MY53120882	Nov 2017
Network Analyzer	Agilent	E5071C ENA	MY46106183	Ago 2017
V-network	R&S	ESH2-Z5	872 460/041	10/2017
Trilog Broad Band Antenna 25-2000 MHz	Schwarzbeck	VULB 9168	VULB 9168-242	06/2018
Trilog Broad Band Antenna 25-8000 MHz	Schwarzbeck	VULB 9162	VULB 9162-25	07/2018
Antenna 1-18 GHz	Schwarzbeck	STLP 9148	STPL 9148-123	06/2018
Antenna horn	A.H.System Inc.	SAS-574	061106A40	10/2017
Preamplifier 18-40 GHz	Miteq	JS44	1648665	12/2017
Broadband preamplifier 1-18 GHz	Schwarzbeck	BBV 9718	9718-137	12/2017
EMI receiver 20 Hz ÷ 8 GHz	R&S	ESU8	100202	04/2018
EMI receiver 20 Hz ÷ 3 GHz	R&S	ESCI	100888	08/2017
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	01/2018
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	530	10/2018
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

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 935210 D05v01r01 (3.2) AGC threshold

Measure of EUT AGC Threshold

Test date: 06/27/2017 Test results: Pass

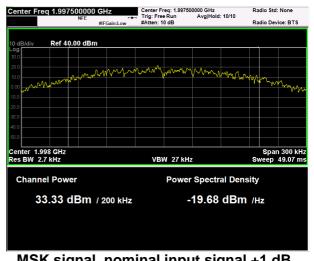
Special notes

- Narrowband amplifiers: MSK test signal used (GSM-TDMA signal)
- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)

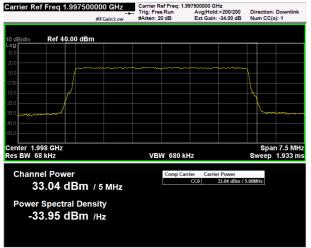
Test data



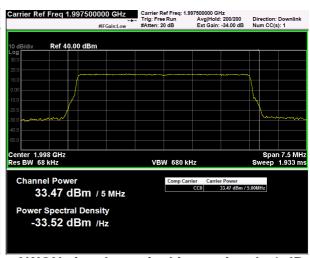




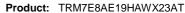
MSK signal, nominal input signal +1 dB



AWGN signal, nominal input signal



AWGN signal, nominal input signal +1 dB





Clause 935210 D05v01r01 (3.3) Out of band rejection

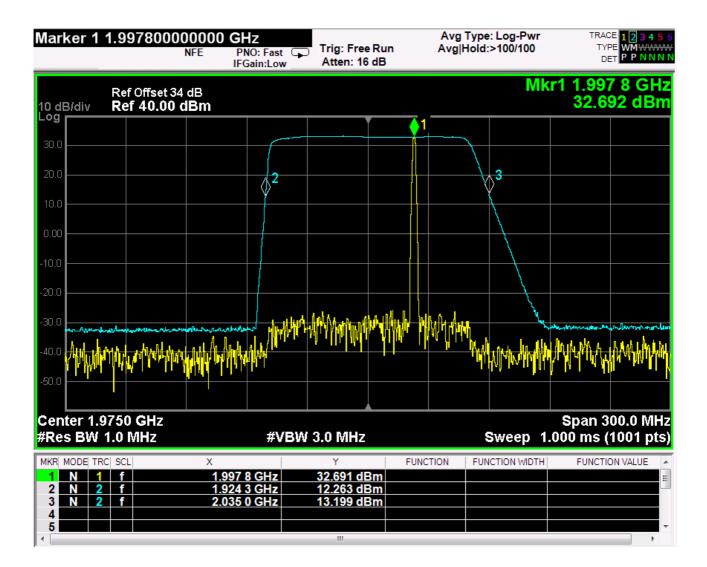
Out of Band Rejection - Test for rejection of out of band signals.

Test date: 06/27/2017
Test results: Pass

Special notes

-

Test data





Specification: FCC 27

Clause 27.53(h)(3) Occupied bandwidth

A 26 dB bandwidth measurement shall be performed on the input signal and the output signal; alternatively, the 99% OBW can be measured and used.

Test date: 06/27/2017

Test results: Pass

Special notes

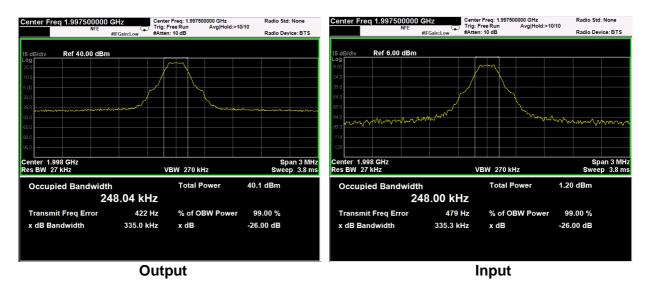
- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)



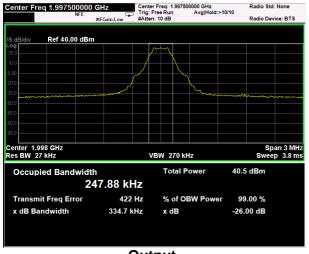
Clause 27.53(h)(3) Occupied bandwidth, continued

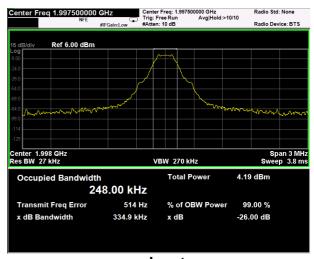
Test data

MSK signal, nominal input signal



MSK signal, nominal input signal + 3dB



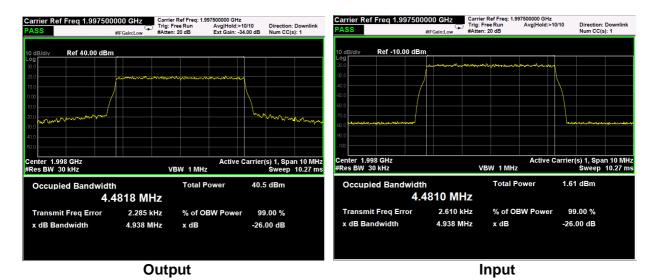


Output Input



Specification: FCC 27

AWGN signal, nominal input signal



AWGN signal, nominal input signal + 3dB



Output Input



Specification: FCC 27

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: 06/27/2017
Test results: Pass

Special notes

- Narrowband amplifiers: MSK test signal used (GSM-TDMA signal)

- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)



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

Test data

MSK signal, nominal input signal

Test data					
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)	PAR (dB)
Down-link	MSK (GSM, 200kHz)	1997.5	33.07	2,03	0,07

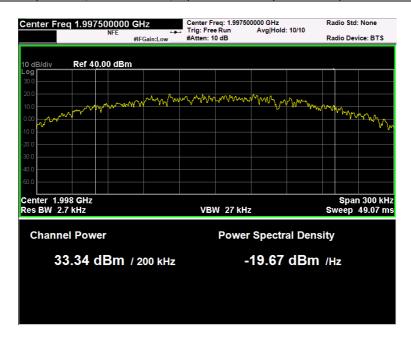


PAR measure is performed by the "CCDF" function installed on Spectrum analyzer that provides average power (the same measured with "Channel power" function), peak power and PAR.



MSK signal, nominal input signal + 3dB

Test data				
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)
Down-link	MSK (GSM, 200kHz)	1997.5	33.34	2.16





AWGN signal, nominal input signal

Test d	lata						
Directi	ion	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)	RF output Power (W/MHz)	PAR (dB)
Down-	link	AWGN (LTE, 5MHz)	1997.5	33.02	2.0	0.4	10.74

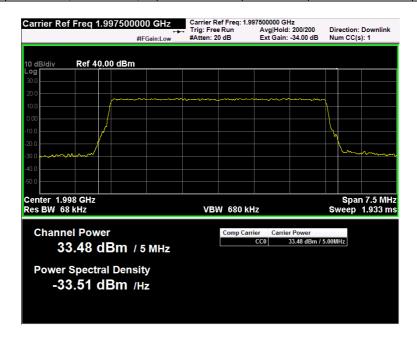


PAR measure is performed by the "CCDF" function installed on Spectrum analyzer that provides average power (the same measured with "Channel power" function), peak power and PAR.



AWGN signal, nominal input signal + 3dB

Test data					
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)	RF output Power (W/MHz)
Down-link	AWGN (LTE, 5MHz)	1997.5	33.48	2.23	0.446





Specification: FCC 27

Clause 27.53(h) Spurious emissions at RF antenna connector

(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.
- (2) Additional protection levels. Notwithstanding the foregoing paragraph (h)(1) of this section:
- (iv) For operations in the 1995-2000 MHz band, the power of any emission between 2005-2020 MHz shall be attenuated below the transmitter power (P) in watts by at least 70 + 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: 06/27/2017
Test results: Pass

Special notes

- Narrowband amplifiers: MSK test signal used (GSM-TDMA signal)

- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)



Specification: FCC 27

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

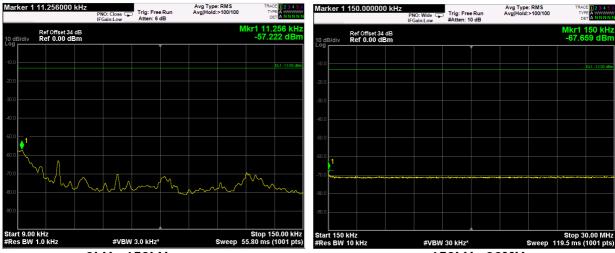
Test data			
See Plots below			
Spurious emissions me	asurement results:		
Frequency (MHz)	Spurious emission (dBm)	Limit (dBm)	Margin (dB)
Low channel			
First channel	Negligible	-13	
Mid channel	<u> </u>		
1997.5MHz	Negligible	-13	
High channel			
Last channel	Negligible	-13	



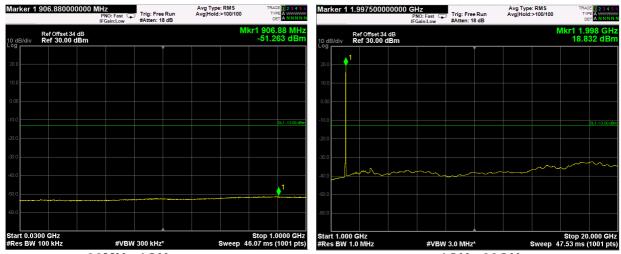
Test data, continued: spurious emissions at antenna terminal

MSK signal

(Plots are referred to modulated carrier at the Middle Channel)



9kHz-150kHz 150kHz-30MHz

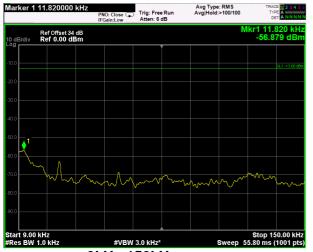


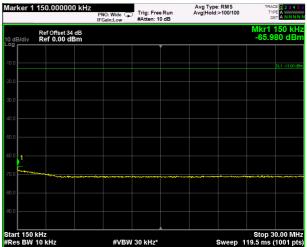
30MHz-1GHz 1GHz-20GHz



AWGN signal

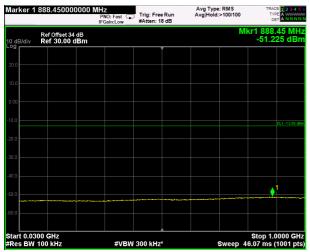
(Plots are referred to modulated carrier at the Middle Channel)

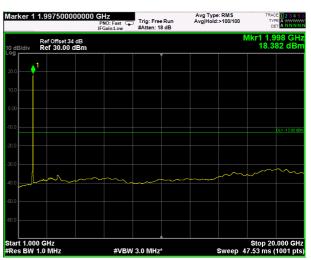




9kHz-150kHz

150kHz-30MHz





30MHz-1GHz

1GHz-20GHz



Specification: FCC 27

Test data, continued: clause 27.53 (h) (2) (iv)

Special notes

70 + 10 log P (W) = 70 + 10 log 1,25W = 71 P (W) = 1,25W = 31 dBm

→ limit: 31 dBm - 71 = -40 dBm

Not applicable, 2005-2020MHz band is a part of amplifier pass band.

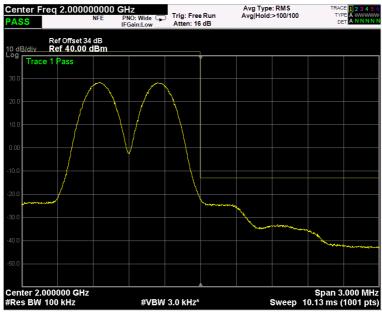


Test data, continued: band edges Inter modulation

MSK signal, nominal input signal



Low Band Edge



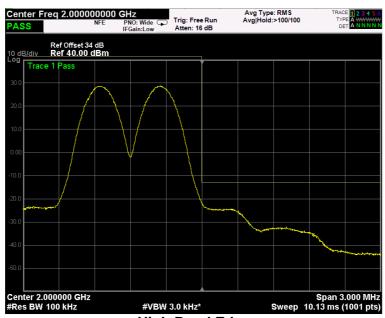
High Band Edge



MSK signal, nominal input signal + 3dB



Low Band Edge



High Band Edge



AWGN signal, nominal input signal



Low Band Edge



High Band Edge



AWGN signal, nominal input signal + 3dB



Low Band Edge



High Band Edge



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.
- (2) Additional protection levels. Notwithstanding the foregoing paragraph (h)(1) of this section:
- (iv) For operations in the 1995-2000 MHz band, the power of any emission between 2005-2020 MHz shall be attenuated below the transmitter power (P) in watts by at least 70 + 10 log10(P) dB.
- (3) Measurement procedure.

Test date: 06/26/2017
Test results: Pass

- (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.

Special notes		



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.

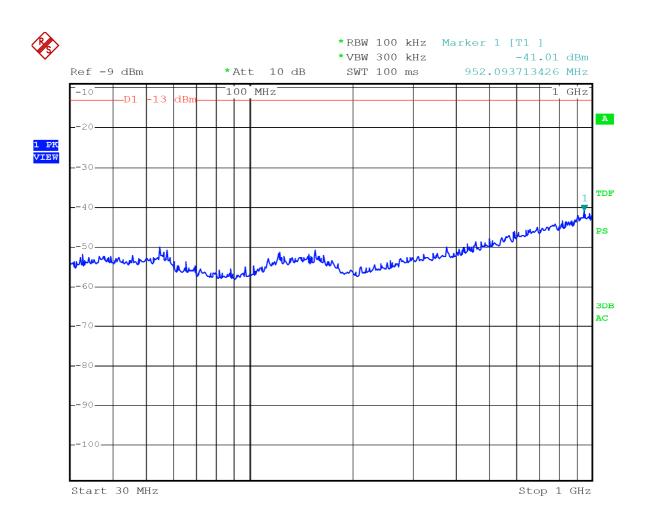
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

	is measurement res			
Frequency	Polarization.	Field strength	Limit	Margin
(MHz)	V/H	(dBµV/m)	(dBµV/m)	(dB)
	V/IT	(αδμν/ιιι)	(αδμν/π)	(ub)
Low channel				
Mid channel				
High channel				
_				

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

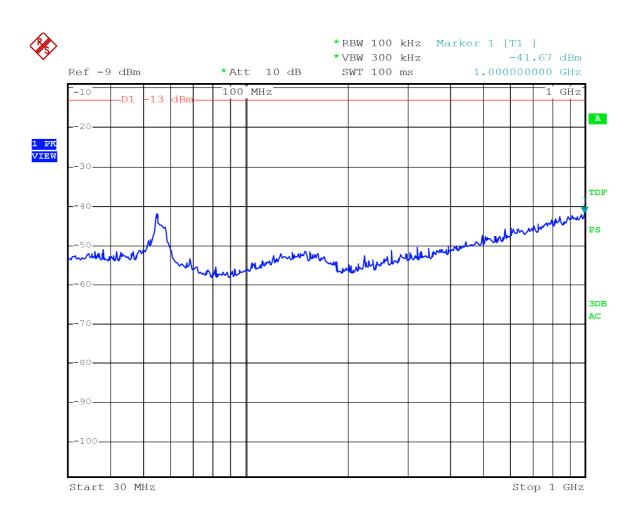




Date: 26.JUN.2017 16:01:10

30MHz-1GHz - H Pol

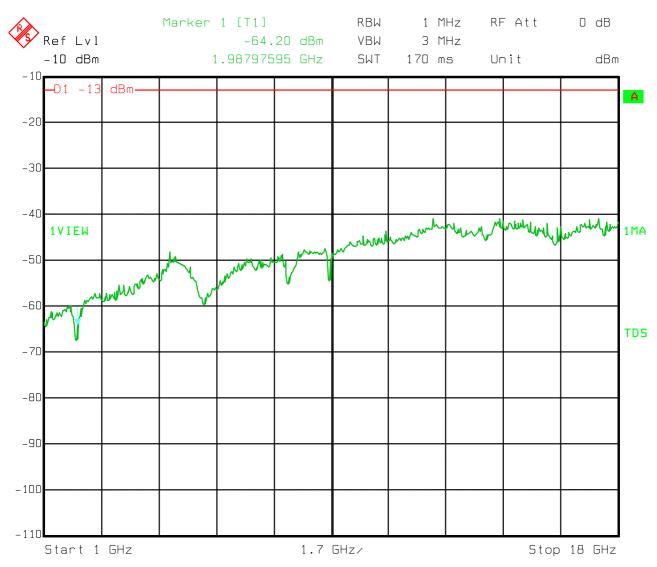




Date: 26.JUN.2017 15:58:34

30MHz-1GHz - V Pol

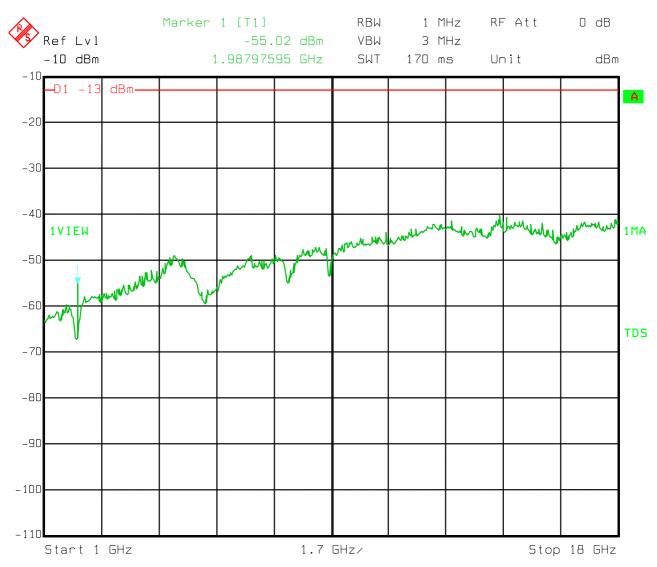




Date: 26.JUN.2017 10:46:04

1GHz-18GHz - H Pol

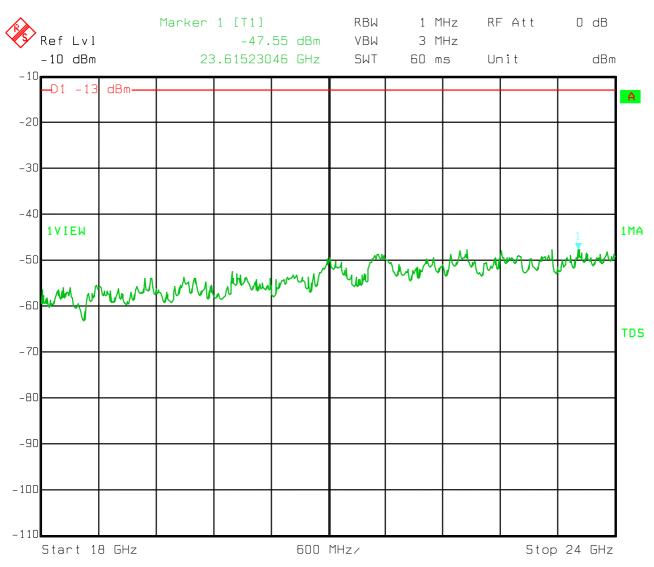




Date: 26.JUN.2017 10:43:26

1GHz-18GHz - V Pol

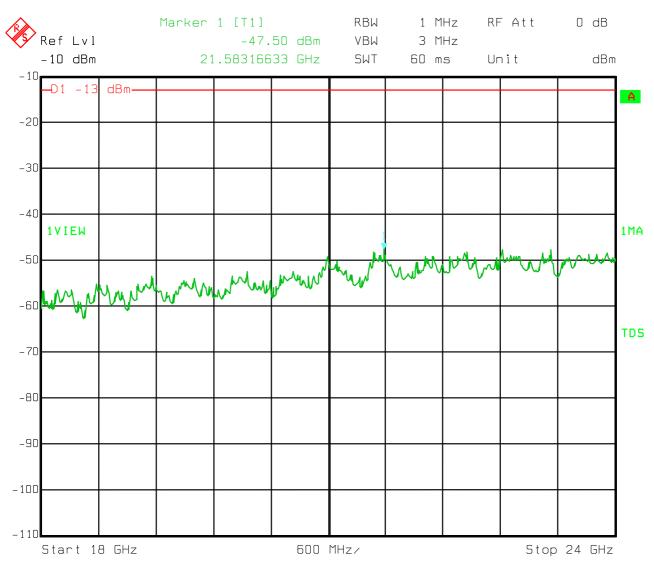




Date: 26.JUN.2017 15:13:16

18GHz-24GHz - H Pol



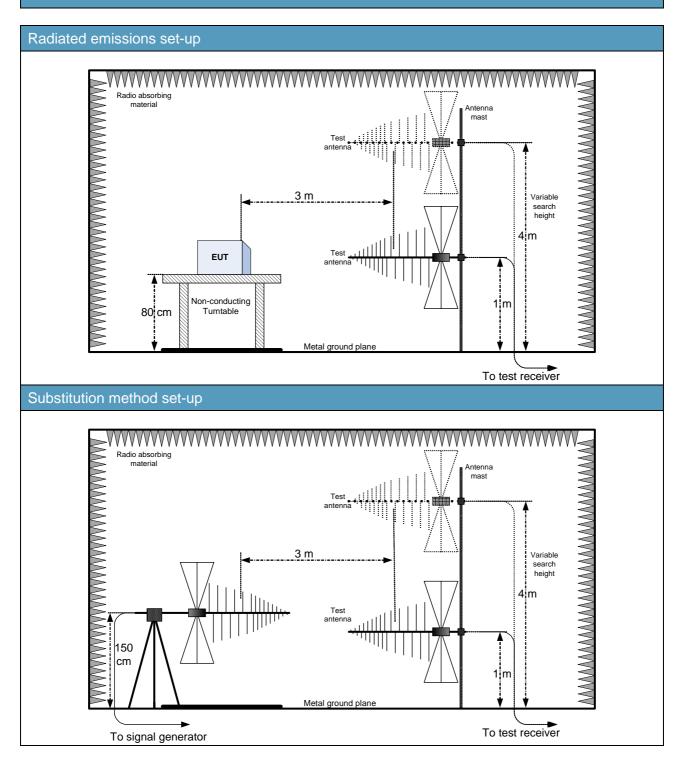


Date: 26.JUN.2017 15:09:50

18GHz-24GHz - V Pol



Appendix B: Block diagrams of test set-ups





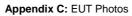
Appendix C: EUT Photos

Photo Set up













Product: TRM7E8AE19HAWX23AT

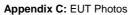




Photo EUT









Product: TRM7E8AE19HAWX23AT



