

Report Reference ID:	332502-11TRFWL
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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	

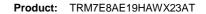
Testing laboratory:	Nemko Italy Spa Via del Carroccio, 4 20853 Biassono (MB) – Italy Telephone: +39 039 2201201 Facsimile: +39 039 2201221
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	Name and title	Date
Tested by:	Curioni & 06/29/2	
	G. Curioni, Wireless/EMC Specialist	00/20/2011
Reviewed by:	Bulu Part	06/29/2017
	P. Barbieri, Wireless/EMC Specialist	00/20/2011

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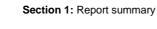
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# Section 1: Report summary

# 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

<b>Test</b>	site	FCC
ID ni	ımbı	or

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(a)(5)	§ 935210 D05v01r01 (3.4)	Occupied bandwidth	Pass
§27.50(a)	§ 935210 D05v01r01 (3.5)	Peak output power at RF antenna connector	Pass
§27.53(a)	§ 935210 D05v01r01 (3.6)	Spurious emissions at RF antenna connector	Pass
§27.53(a)	§ 935210 D05v01r01 (3.8)	Radiated spurious emissions	Pass
§27.54	§ 935210 D05v01r01 (3.7)	Frequency stability	N/A a)

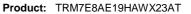
### Notes:

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	details		
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	quipment		
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	
	Product code:	-MP6B	
Equipment class	B2I		
Description of	Booster		
product as it is	Model	TRM7E8AE19HAWX23AT	
marketed	name/number:		
	Serial number:	1007061001	
3.4 Application	purpose		
Type of	Original certi	fication	
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		





# 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	formation
Receipt date:	06/26/2017
Nemko sample ID number:	

3.7 EUT techn	ical 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: 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 $\Omega$ RF connector
Power source:	100-240 Vac



Section 3: Equipment under test Product: TRM7E8AE19HAWX23AT

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					
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

None

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: 4.3 Technical judgment



est conditions **Product**: TRM7E8AE19HAWX23AT

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 condit	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 D05v01 (3.2) AGC threshold

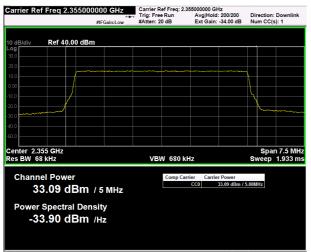
Measure of EUT AGC Threshold

Test date: 06/28/2017
Test results: Pass

### Special notes

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

### Test data







AWGN signal, nominal input signal +1 dB



Specification: FCC 27

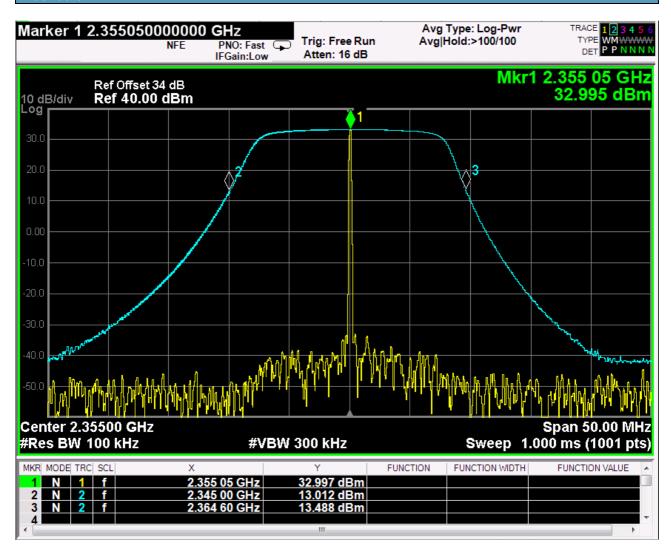
# Clause 935210 D05v01 (3.3) Out of band rejection

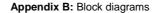
Out of Band Rejection - Test for rejection of out of band signals.

Test date: 06/28/2017
Test results: Pass

Special notes
-

### Test data







Specification: FCC 27

# Clause 27.53(a)(5) 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: 06/28/2017

Test results: Pass

### Special notes

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

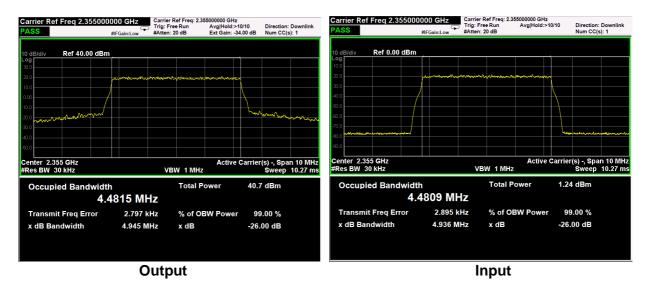
Block diagrams **Product:** TRM7E8AE19HAWX23AT

Specification: FCC 27

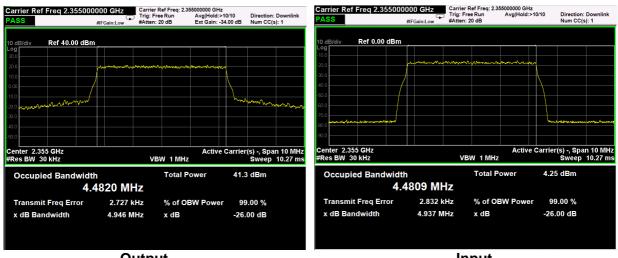
# Clause 27.53(a)(5) Occupied bandwidth, continued

# Test data

# AWGN signal, nominal input signal



### AWGN signal, nominal input signal + 3dB



Output Input



Specification: FCC 27

# 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: 06/28/2017

Test results: Pass

### Special notes

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



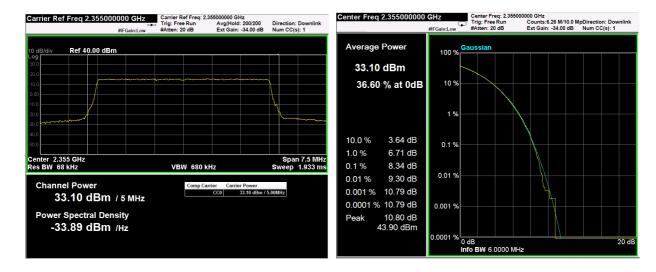
Specification: FCC 27

# Clause 27.50(a) Peak output power at RF antenna connector

Test data

# AWGN signal, nominal input signal

Test data						
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)	RF output Power (W/MHz)	PAR (dB)
Down-link	AWGN (LTE, 5MHz)	2355.0	33.10	2.04	0.41	10.80

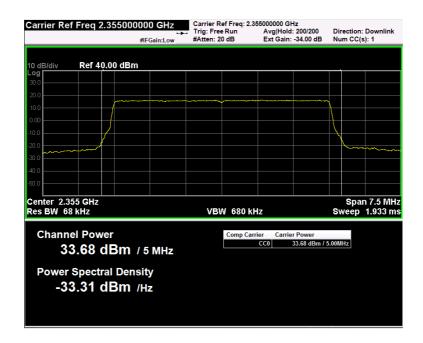


PAR measure is performed by the "CCDF" function installed on Spectrum analyzer that provides average power (the same measured with "Channel power" function), peak power and PAR.



# 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)	2355.0	33.68	2.33	0.47





# Clause 27.53(a) Spurious emissions at RF antenna connector

- (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 and 2287.5 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: 06/28/2017
Test results: Pass

### Special notes

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



Specification: FCC 27

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

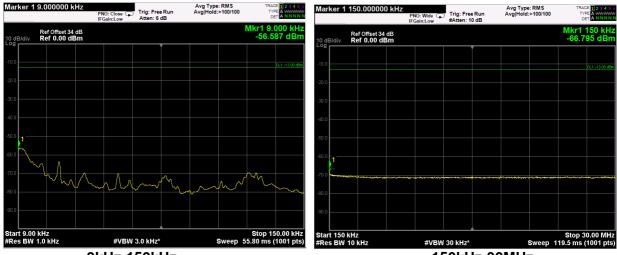
Test data			
See Plots below			
Spurious emissions me	easurement results:		
Frequency (MHz)	Spurious emission (dBm)	Limit (dBm)	Margin (dB)
Low channel			
First channel	Negligible	-13	
Mid channel			
2355 MHz	Negligible	-13	
High channel			l
Last channel	Negligible	-13	
i			



### Test data: spurious emissions at antenna terminal

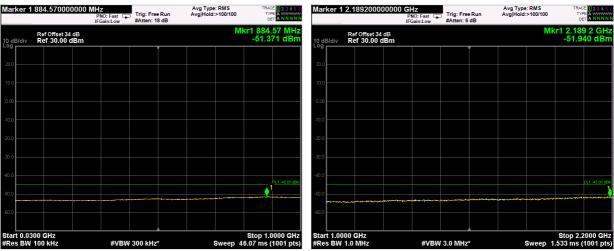
### **AWGN** signal

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



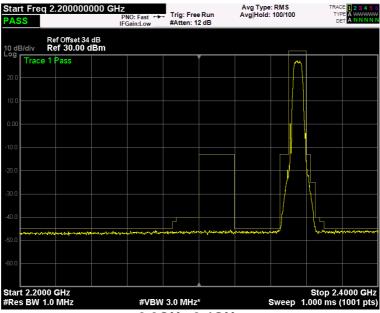
9kHz-150kHz

150kHz-30MHz



1GHz-2.2GHz





2.2GHz-2.4GHz

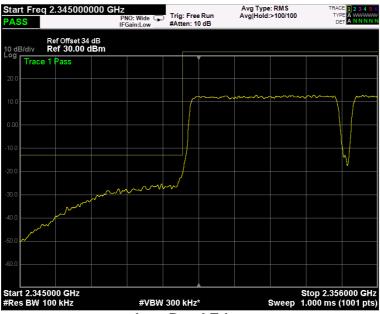


2.4GHz-23.6GHz

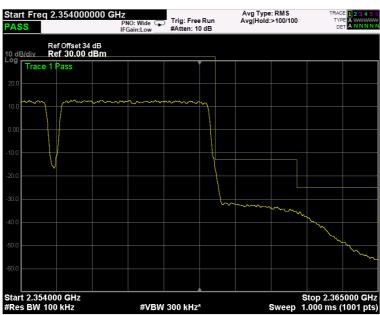


# Test data, continued: band edges Inter modulation

# AWGN signal, nominal input signal



**Low Band Edge** 



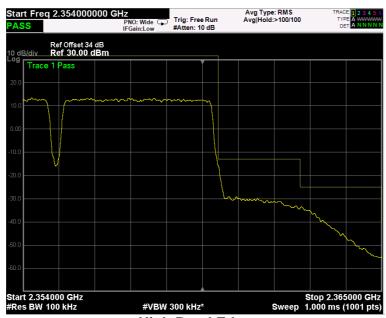
High Band Edge



# AWGN signal, nominal input signal + 3dB



**Low Band Edge** 



**High Band Edge** 



Specification: FCC 27

# Clause 27.53(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 and 2287.5 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: 06/26/2016		
Test results: Pass		
Special notes		



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  $\Omega$  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.

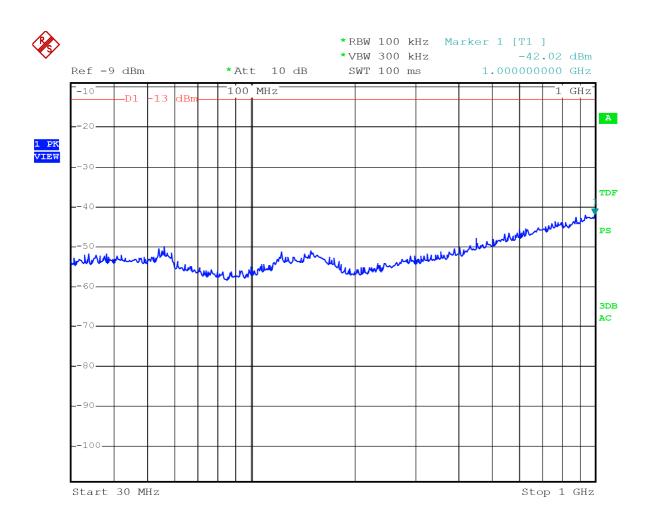
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

Frequency (MHz)	Polarization. V/H	Field strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
Low channel		,		,		
Mai al ala ara a al						
Mid channel	<u> </u>	<u> </u>	1	<u> </u>		
High channel	High channel					

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

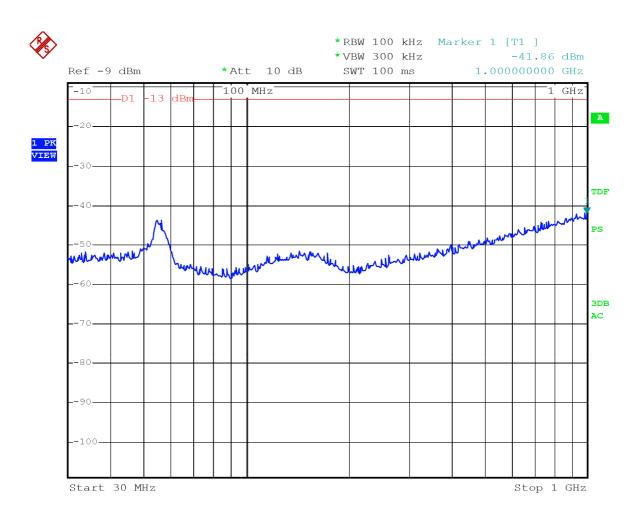




Date: 26.JUN.2017 16:22:47

30MHz-1GHz - H Pol

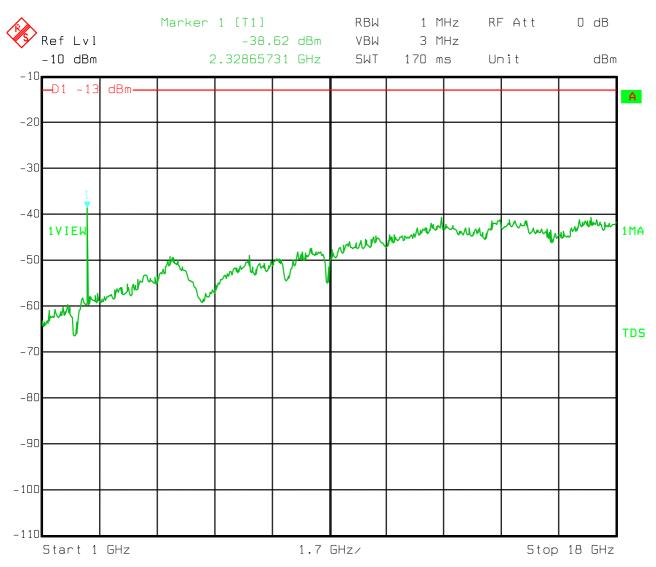




Date: 26.JUN.2017 16:21:25

30MHz-1GHz - V Pol

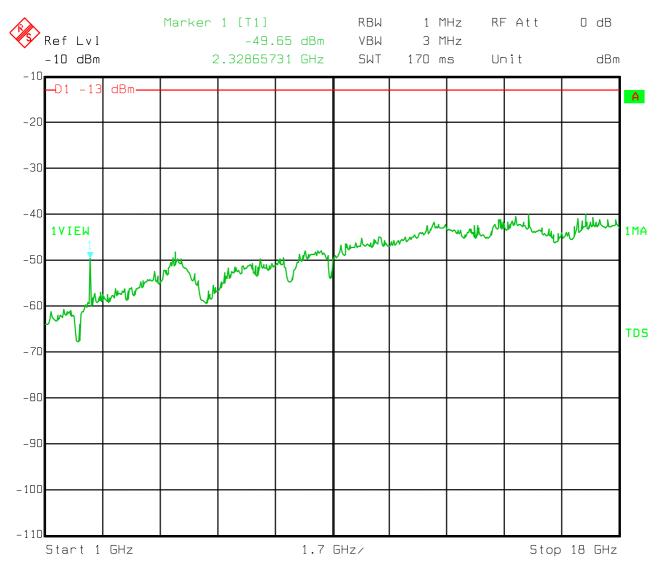




Date: 26.JUN.2017 11:23:03

1GHz-18GHz - H Pol



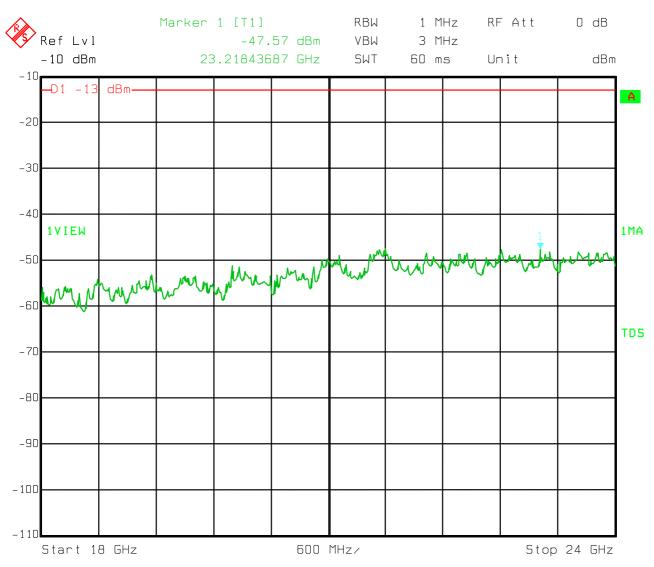


Date: 26.JUN.2017 11:19:22

1GHz-18GHz - V Pol





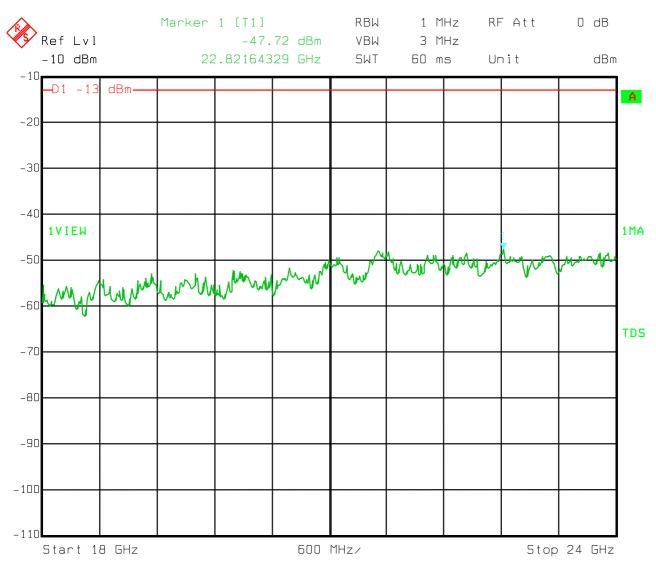


Date: 26.JUN.2017 15:43:30

18GHz-24GHz - H Pol





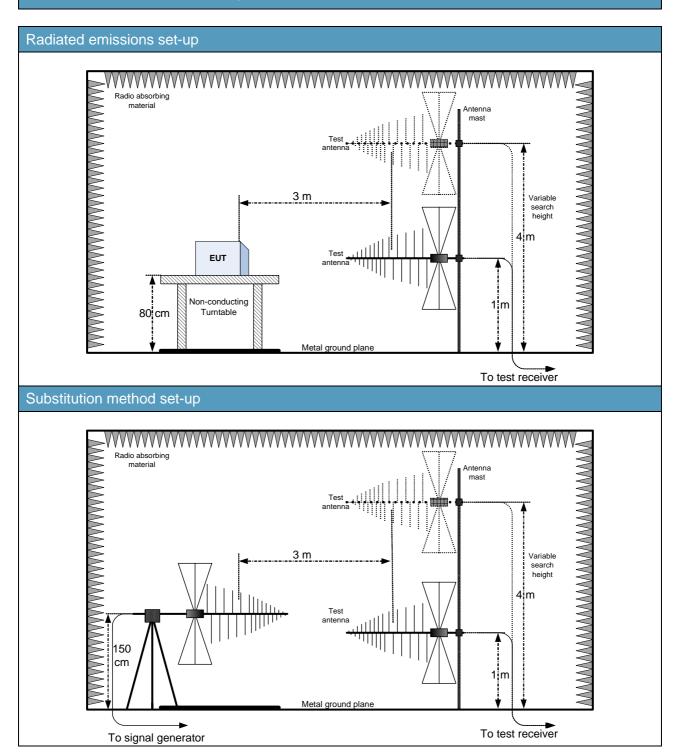


Date: 26.JUN.2017 15:40:52

18GHz-24GHz - V Pol



# Appendix B: Block diagrams of test set-ups

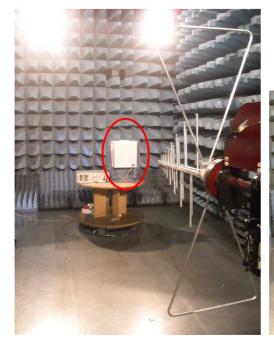




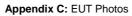
# Appendix C: EUT Photos

# Photo Set up













Product: TRM7E8AE19HAWX23AT

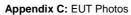




# Photo EUT









Specification: FCC 27



