

Report Reference ID:	372837-2TRFWL
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Test specification:	Title 47 – Telecommunication Chapter I – Federal Communications Commission Subchapter D – Safety and special radio services Part 90 – Private land mobile services Subpart I – General technical standards
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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:	TRU7FL8P9PWM/AC-WT
FCC ID:	XM2-MP7FL8P9PP

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:	Rulun Poul  P. Barbieri, Wireless/EMC Specialist	06/24/2019
Reviewed by:	R. Giampaglia, Wireless/EMC Specialist	06/24/2019

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Specification: FCC 90

## Section 1: Report summary

### Test specification

**Specifications** 

Part 90 - Private land mobile services

#### 1.2 Statement of compliance

### Compliance

In the configuration tested the EUT was found compliant

Yes X No □

This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko Spa. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 90. Radiated tests were conducted in accordance with ANSI C63.26-2015.

#### 1.3 **Exclusions**

**Exclusions** None

#### Registration number 1.4

<b>Test site FCC</b>
ID number

682159

## 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

2.1 FCC Part 90, test results			
Part	Methods	Test description	Verdict
	§ 935210 D05v01r03 (4.2)	AGC threshold	Pass
	§ 935210 D05v01r03 (4.3)	Out of band rejection	Pass
§90.209 §90.219(e)(4)	§ 935210 D05v01r03 (4.4)	Occupied bandwidth	Pass
§90.205 §90.219(e)(1)	§ 935210 D05v01r03 (4.5)	Output power at RF antenna connector	Pass
§90.219(e)(2)	§ 935210 D05v01r03 (4.6)	Noise Figure	Pass
§90.543(c) §90.219(e)(3)	§ 935210 D05v01r03 (4.7)	Spurious emissions at RF antenna connector	Pass
§90.543(c) §90.219(e)(3)	§ 935210 D05v01r03 (4.9)	Radiated spurious emissions	Pass
§90.543(f) §90.219(e)(3)	§ 935210 D05v01r03 (4.9)	Radiated spurious emissions within 1559-1610 MHz band	Pass
§90.213	§ 935210 D05v01r03 (4.8)	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)



Specification: FCC 90

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

3.1 Applicant of	letaile		
Applicant	Name:	Teko Telecom Srl	
complete	Federal	TERO TELECOTT SIT	
business name	Registration	0018963462	
baomeoo name	Number (FRN):	0010300402	
	Grantee code	XM2	
Mailing address	Address:	Via Meucci, 24/a	
maning data 555	City:	Castel S. Pietro Terme	
	Province/State:	Bologna	
	Post code:	40024	
	Country:	Italy	
	- Country :	Today	
0.0 14 11			
3.2 Modular ed			
a) Single modular	Single modular appro		
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:	-MP7FL8P9PP	
Equipment class	B9B		
Description of	Booster		
product as it is	Model	TRU7FL8P9PWM/AC-WT	
marketed	name/number:	TITOTI LOI 91 WW/AC-WT	
	Serial number:	1012793001	
3.4 Application	3.4 Application purpose		
Type of	☐ Original certi	fication	
application	☐ Change in id	entification of presently authorized equipment	
	Original FCC	CID: Grant date:	
	l □ □ ol		
	∣ ⊔ Class II pern	nissive change or modification of presently authorized	



Specification: FCC 90

### 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: XM2-MP7FL8P9PP	
	ii FCC ID:	

3.6 Sample inf	ormation
Receipt date:	05/27/2019
Nemko sample ID number:	

3.7 EUT techn	ical specifications
Operating band:	Down Link: 769–775 MHz, Up Link: 799-805 MHz
Operating frequency:	Narrowband
Modulation type:	P25, FM
Occupied bandwidth:	Standard
Channel spacing:	standard
Emission designator:	F1E, F1D, F3E
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



Specification: FCC 90

### Section 3: Equipment under test

3.8 Accessories and support equipment					
The following information identifies accessories used to exercise the EUT during testing:					
No other FCC-ID equipmer	nt 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:	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:					



#### 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:

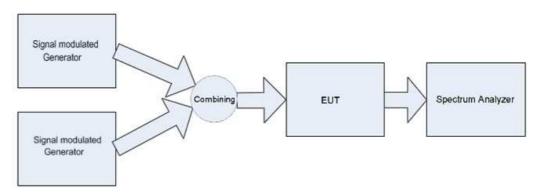
**Section 3:** Equipment under test



#### **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.

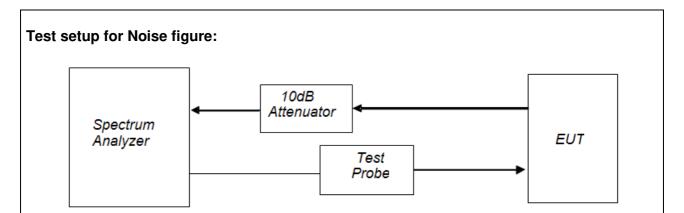
#### Test setup for intermodulation:



#### **Procedure**

Connect two signal modulated generators to the input of the EUT, so that the two input signals are same level. 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. At maximum drive level, for each modulation applies two tones for fulfill two tests (high-band edge and low-band-edge)





#### **Procedure**

Connect the EUT with the spectrum analyzer as described in the picture below. Connect the "Output Noise Source" spectrum analyzer with the RF input connector of the Remote Unit. Connect the output RF connector with the spectrum analyzer. Between spectrum analyzer and Remote Unit use a "Noise Source" (Test probe), so the noise of reference is generated. Set the EUT at max gain.



Product: TRU7FL8P9PWM/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
Judgment
None



Specification: FCC 90

# 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						
EUT	Туре	Test	Range and Setup features	Measurement Uncertainty	Notes	
		Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)	
			10 kHz ÷ 30 MHz	1.0 dB	(1)	
		Carrier power RF Output Power	30 MHz ÷ 18 GHz	1.5 dB	(1)	
		Til Galpat Tower	18 MHz ÷ 40 GHz	3.0 dB	(1)	
		Adjacent channel power	1 MHz ÷ 18 GHz	1.6 dB	(1)	
		0	10 kHz ÷ 26 GHz	3.0 dB	(1)	
		Conducted spurious emissions	26 GHz ÷ 40 GHz	4.5 dB	(1)	
		Intermodulation attenuation	1 MHz ÷ 18 GHz	2.2 dB	(1)	
		Attack time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)	
		Attack time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)	
		Release time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)	
	Conducted	Release time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)	
Transmitter	Conducted	Transient behaviour of the transmitter– Transient frequency behaviour	1 MHz ÷ 18 GHz	0.2 kHz	(1)	
		Transient behaviour of the transmitter – Power level slope	1 MHz ÷ 18 GHz	9%	(1)	
		Frequency deviation - Maximum permissible frequency deviation	0.001 MHz ÷ 18 GHz	1.3%	(1)	
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001 MHz ÷ 18 GHz	0.5 dB	(1)	
		Dwell time	-	3%	(1)	
		Hopping Frequency Separation	0.01 MHz ÷ 18 GHz	1%	(1)	
		Occupied Channel Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
		Modulation Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
		Radiated spurious emissions	10 kHz ÷ 26.5 GHz	6.0 dB	(1)	
	Radiated	riadiated sparious etilissions	26.5 GHz ÷ 40 GHz	8.0 dB	(1)	
	i iduialeu	Effective radiated power	10 kHz ÷ 26.5 GHz	6.0 dB	(1)	
		transmitter	26,5 GHz ÷ 40 GHz	8.0 dB	(1)	
		Padiated enurious emissions	10 kHz ÷ 26.5 GHz	6.0 dB	(1)	
	Radiated	Radiated spurious emissions	26.5 GHz ÷ 40 GHz	8.0 dB	(1)	
Receiver		Sensitivity measurement	1 MHz ÷ 18 GHz	6.0 dB	(1)	
	Conducted	Conducted anurious emissions	10 kHz ÷ 26 GHz	3.0 dB	(1)	
		Conducted spurious emissions	26 GHz ÷ 40 GHz	4.5 dB	(1)	

<sup>(1)</sup> The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2 which has been derived from the assumed normal probability distribution with infinite degrees of freedom and for a coverage probability of 95 %



Specification: FCC 90

5.4 Test equ	ipment			
Equipment	Manufacturer	Model No.	Asset/Serial No.	Next cal.
Vector Signal Generator	Agilent	E4432B ESG	GB38450308	08/2019
Vector Signal Generator	Agilent	E4438C ESG	MY45094485	08/2019
Spectrum Analyzer	Agilent	N9030A PXA	MY53120882	12/2019
Trilog Broad Band Antenna 25-8000 MHz	Schwarzbeck	VULB 9162	VULB 9162-25	07/2021
Antenna 1-18 GHz	Schwarzbeck	STLP 9148	STPL 9148-123	07/2021
Double ridge horn antenna (4 ÷ 40 GHz)	RFSpin	DRH40	061106A40	02/2020
Broadband preamplifier (18 ÷ 40 GHz)	Miteq	JS44-18004000-35-8P- R	1.627	09/2019
Broadband preamplifier 1-18 GHz	Schwarzbeck	BBV 9718	9718-137	08/2019
EMI receiver 20 Hz ÷ 8 GHz	R&S	ESU8	100202	01/2020
EMI receiver 2 Hz ÷ 44 GHz	R&S	ESW44	101620	05/2019
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
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	530	09/2021
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 90

# Appendix A: Test results

## Clause 935210 D05v01 (4.2) AGC threshold

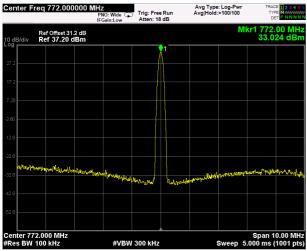
Measure of EUT AGC Threshold

Test date: 05/27/2019 to 06/24/2019

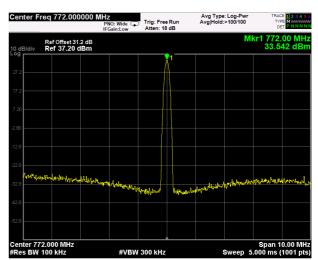
Test results: Pass

Special notes

#### Test data



CW signal, nominal input signal



CW signal, nominal input signal +1 dB



Specification: FCC 90

## Clause 935210 D05v01 (4.3) Out of band rejection

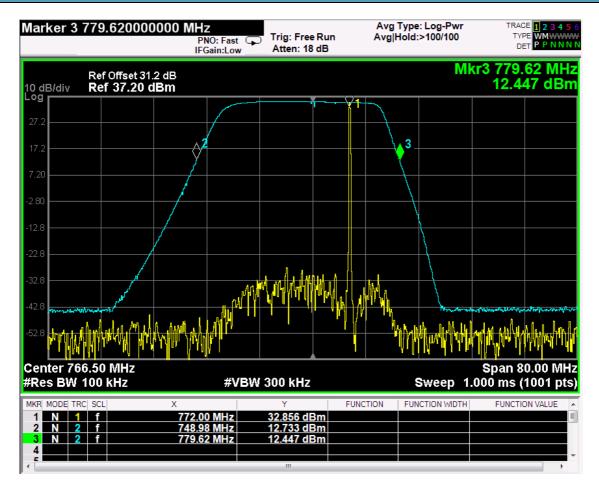
Out of Band Rejection – Test for rejection of out of band signals.

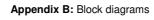
Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Special notes

#### Test data







Specification: FCC 90

### Clause 90.209, 90.219(e)(4) Occupied bandwidth

#### § 90.219(e)(4)

A signal booster must be designed such that all signals that it retransmits meet the following requirements:

- (i) The signals are retransmitted on the same channels as received. Minor departures from the exact provider or reference frequencies of the input signals are allowed, *provided that* the retransmitted signals meet the requirements of § 90.213.
  - (ii) There is no change in the occupied bandwidth of the retransmitted signals.
- (iii) The retransmitted signals continue to meet the unwanted emissions limits of § 90.210 applicable to the corresponding received signals (assuming that these received signals meet the applicable unwanted emissions limits by a reasonable margin).

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Special notes



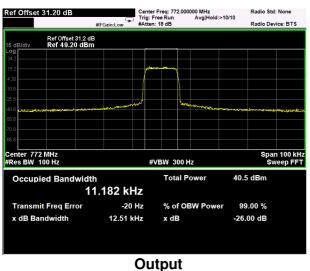
Specification: FCC 90

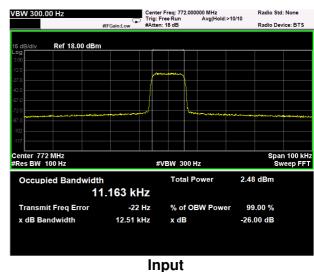
Radio Std: None

#### Occupied bandwidth, continued

#### Test data

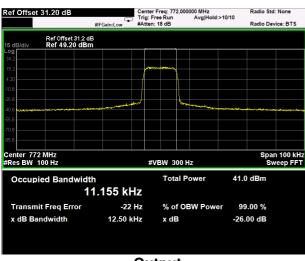
#### 11K signal, nominal input signal





VBW 300.00 Hz

#### 11K signal, nominal input signal + 3dB





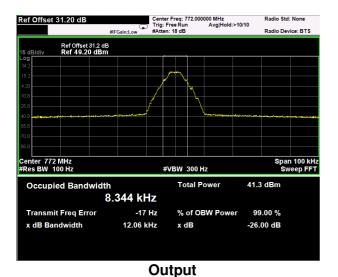
**Output** Input

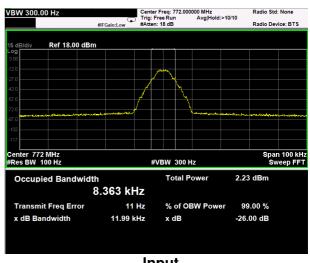
VBW 300.00 Hz

Product: TRU7FL8P9PWM/AC-WT

Specification: FCC 90

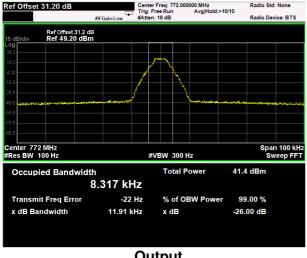
#### P25 signal, nominal input signal

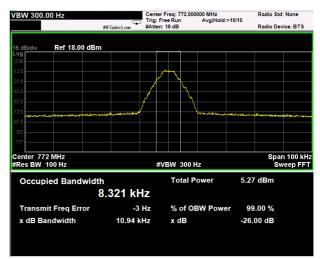




Input

#### P25 signal, nominal input signal + 3dB





**Output** Input Nemko

Product: TRU7FL8P9PWM/AC-WT

Specification: FCC 90

## Clause 90.205, 90.219(e)(1) Output power at RF antenna connector

#### § 90.205

Applicants for licenses must request and use no more power than the actual power necessary for satisfactory operation. Except where otherwise specifically provided for, the maximum power that will be authorized to applicants whose license applications for new stations are filed after August 18, 1995 is as follows in FCC Part 90.205 (a) through (r).

#### § 90.219(e)(1)

The output power capability of a signal booster must be designed for deployments providing a radiated power not exceeding 5 Watts ERP for each retransmitted channel.

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

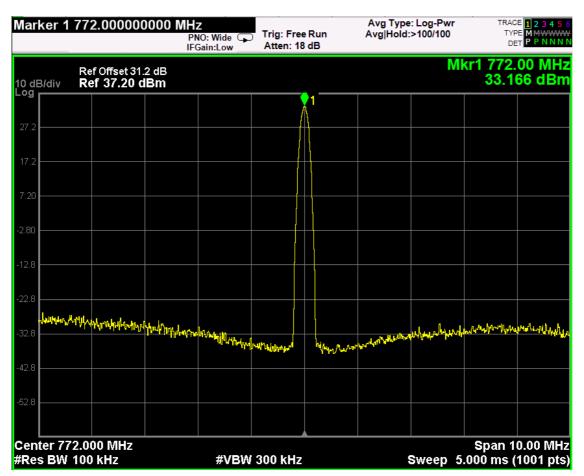
Special notes

Specification: FCC 90

#### Output power at RF antenna connector

### CW signal, nominal input signal

Test data				
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)
Down-link	CW	772,0	33,166	2,07



#### Test result

Gmax antenna gain (dBi) = 39 - 33.166 = 5.834 dBi

EIRP = 33.166 + 5.834 = 39 dBm

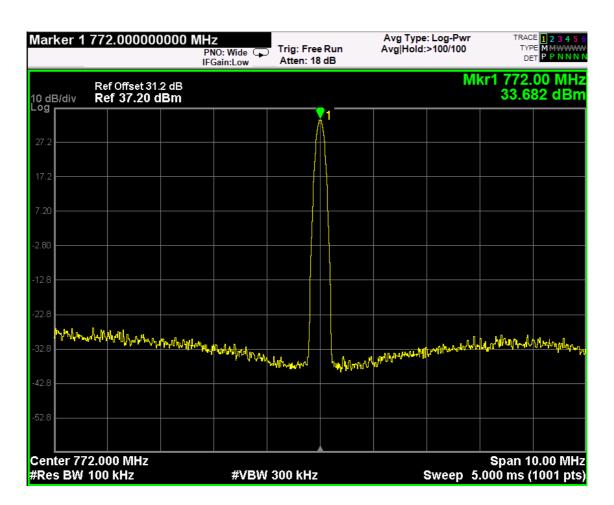
ERP = 39 - 2.14 = 36.86dBm = 4.85W < 5 W ERP



Specification: FCC 90

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

Test data				
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)
Down-link	CW	772,0	33,682	2,33





Specification: FCC 90

## Clause 935210 D05v01 (4.6) Noise figure

#### § 90.219(e)(2)

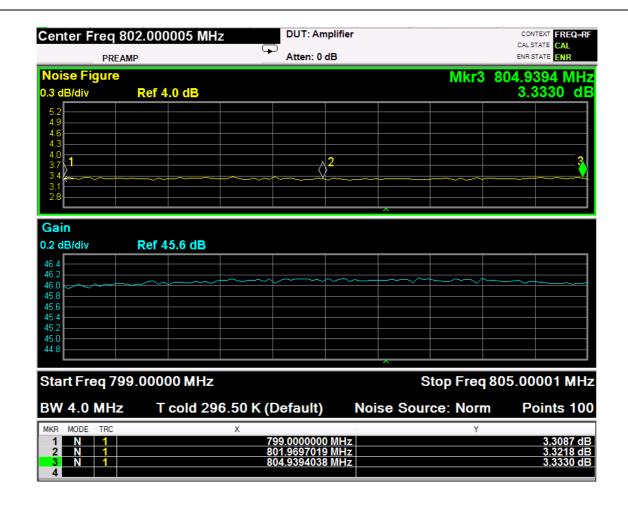
The noise figure of a signal booster must not exceed 9 dB in either direction.

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

#### Special notes

In the Remote Unit, only up-link measurement can be performed (test probe is connect to antenna port)





Specification: FCC 90

## Clause 90.543(c), 90.219(e)(3) Spurious emissions at the antenna terminal

#### § 90.543(c)

Out-of-band emission limit. On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.

#### § 90.219(e)(3)

Spurious emissions from a signal booster must not exceed –13dBm within any 100 kHz measurement bandwidth.

Test date: 05/27/2019 to 06/24/2019

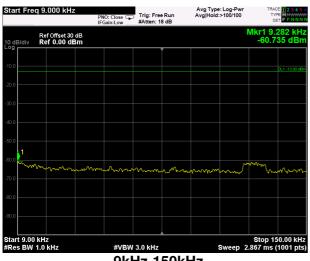
Test results: Pass

Special notes



### Test data: Spurious emissions at RF antenna connector

#### CW signal – First Channel (769,025MHz)

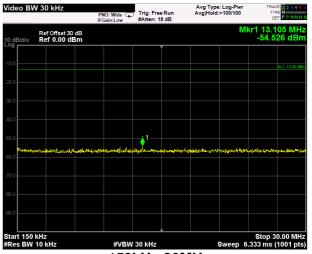




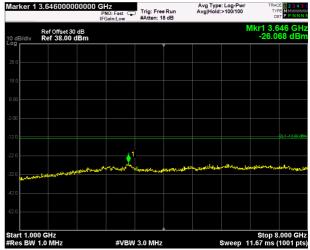


30MHz -1GHz

#VBW 300 kHz



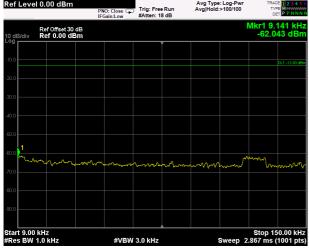
150kHz-30MHz

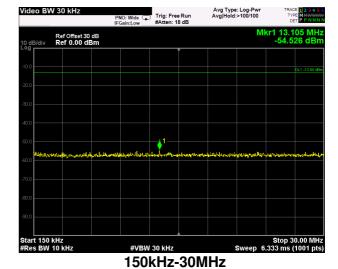


1GHz -8GHz

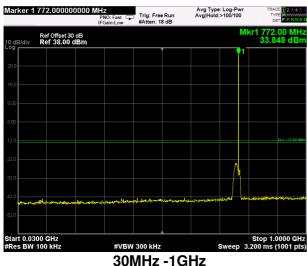
Specification: FCC 90

### CW signal – Middle Channel (772,0MHz)

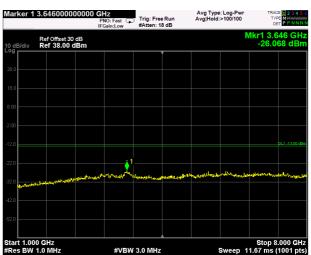




9kHz-150kHz



Avg Type: Log-Pwr Avg|Hold:>100/100

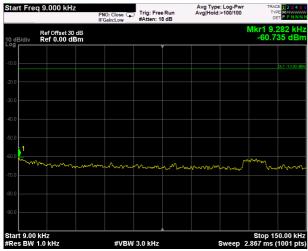


1GHz -8GHz

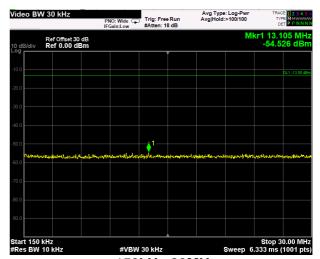


Specification: FCC 90

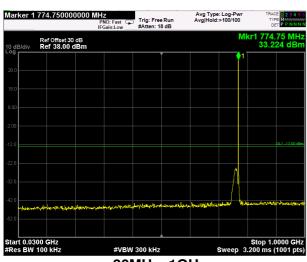
### CW signal – Last Channel (774,975MHz)



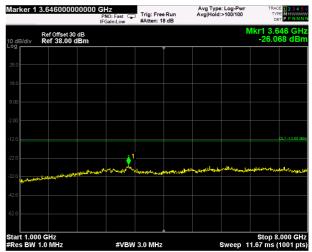
9kHz-150kHz



150kHz-30MHz



30MHz -1GHz

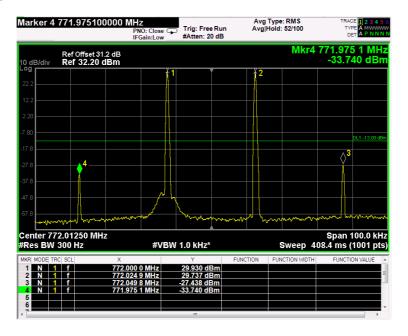


1GHz -8GHz

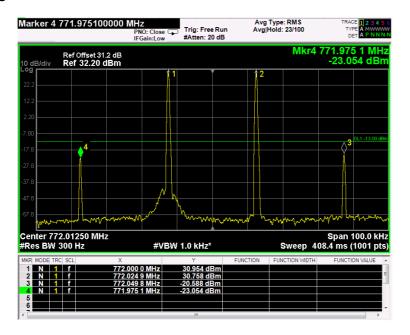


### Test data: Spurious emissions at RF antenna connector: intermodulation

#### Nominal input signal



#### Nominal input signal + 3dB





Appendix B: Block diagrams Product: TRU7FL8P9PWM/AC-WT

Specification: FCC 90

## Clause 90.543(c), 90.219(e)(3) Spurious emissions radiated

#### § 90.543(c)

Out-of-band emission limit. On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.

#### § 90.219(e)(3)

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Spurious emissions from a signal booster must not exceed –13dBm within any 100 kHz measurement bandwidth.

Special notes		



Specification: FCC 90

#### 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.

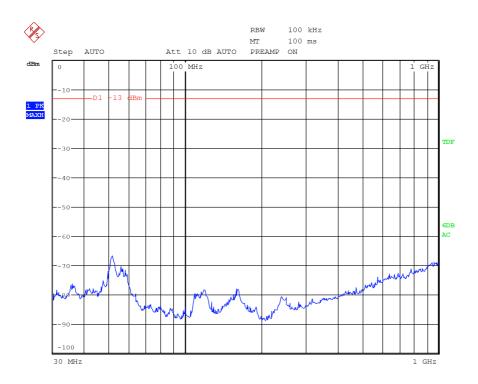
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

	is measurement rest			
Frequency	Polarization.	Field strength	Limit	Margin
(MHz)	V/H	(dBm)	(dBm)	(dB)
Low channel	T	Γ	T	T
First Channel	V/H	Negligible	-13	
Mid channel				
772.0	V/H	Negligible	-13	
		V V		
High channel				
Last Channel	V/H	Negligible	-13	

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

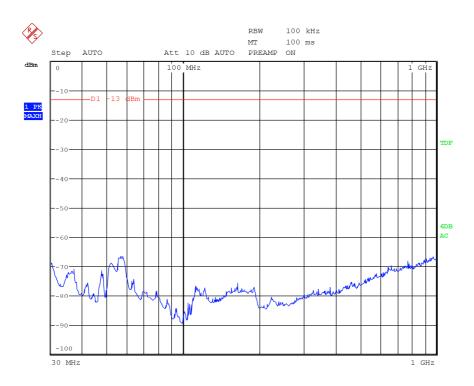




Date: 19.JUN.2019 11:35:28

30MHz-1GHz - H Pol

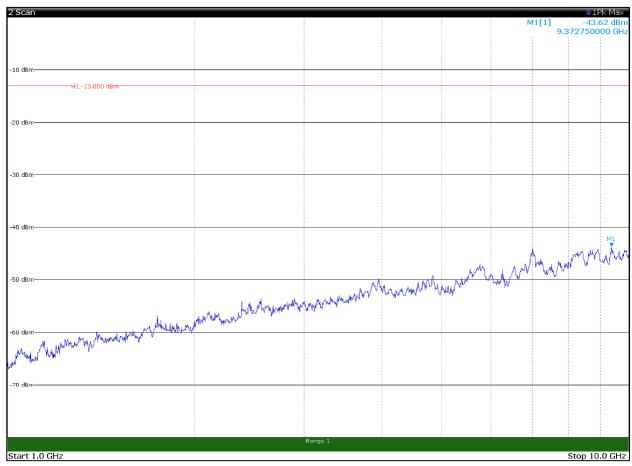




Date: 19.JUN.2019 11:36:04

30MHz-1GHz - V Pol

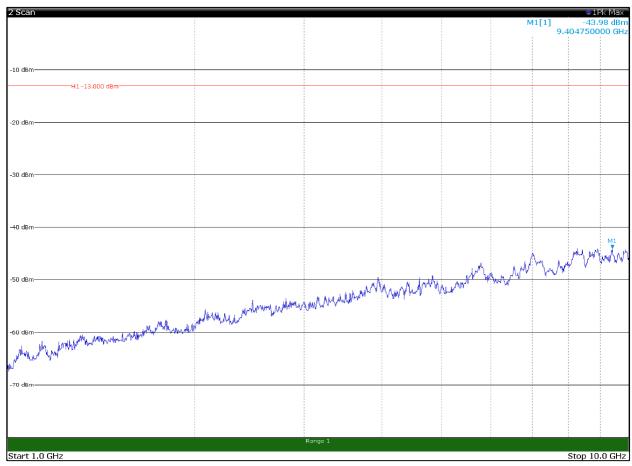




09:51:47 18.06.2019 Page 1/1

1GHz-10GHz - H Pol





09:52:07 18.06.2019 Page 1/1

1GHz-10GHz - V Pol



Appendix B: Block diagrams Product: TRU7FL8P9PWM/AC-WT

Specification: FCC 90

### Clause 90.543(f) Radiated spurious emissions within 1559-1610 MHz band

#### § 90.543(f)

For operations in the 758-775 MHz and, 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation

#### Note:

Method of measurement according to TIA-603-C (EIRP in GNSS band: 1.556 to 1.610 GHz) .  $\Delta$  Band = 51 MHz, Correction Factor calculated at central band 1604.5 MHz. in Fraunhofer Region.

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

#### Special notes

Method of measurement according to TIA-603-C (EIRP in GNSS band: 1.556 to 1.610 GHz) .

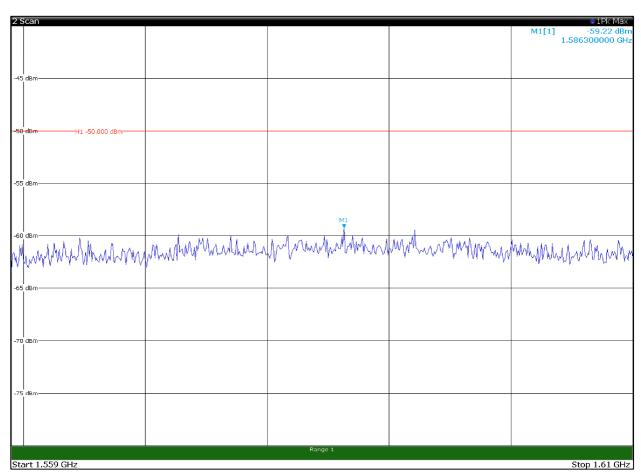
 $\Delta$  Band = 51 MHz, Correction Factor calculated at central band 1604.5 MHz. in Fraunhofer Region.

Limit used for discrete emissions: -80 dBw = -50 dBm

Specification: FCC 90

### Clause 90.543(f) Radiated spurious emissions within 1559-1610 MHz band, continued

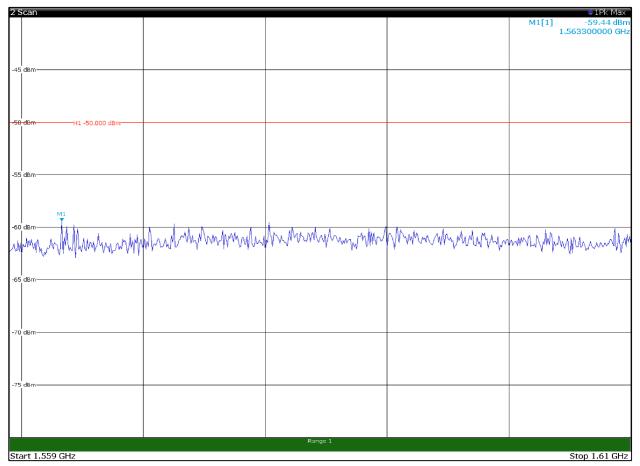
#### Test data



10:58:54 18:06:2019 Page 1/1

1559MHz-1610MHz - H Pol



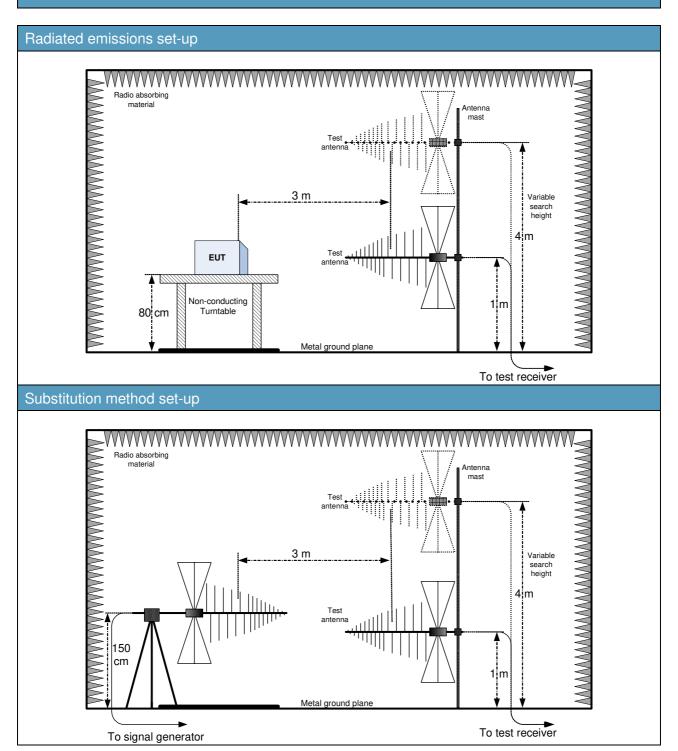


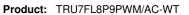
10:58:34 18:06:2019 Page 1/1

1559MHz-1610MHz - V Pol



# Appendix B: Block diagrams of test set-ups







# Appendix C: EUT Photos

### Photo Set up









Appendix C: EUT Photos Product: TRU7FL8P9PWM/AC-WT

Specification: FCC 90

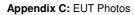


### Photo EUT









Nemko



Specification: FCC 90







Specification: FCC 90

#### Label EUT



WARNING. This is NOT a CONSUMER device, it is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS, You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device, Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

WARNING. This is NOT a CONSUMER device. This is a 90.219 Class B signal booster. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class B signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

**END OF REPORT**