

An IIA Company

RF Exposure Evaluation Report

APPLICANT	R.V.R. USA.	
ADDRESS	7782 NW 46 Street Miami FL 33166 USA	
FCC ID	RHDTEX-702LCD	
MODEL NUMBER	TEX702LCD	
PRODUCT DESCRIPTION	FM BROADCAST TRANSMITTER	
DATE SAMPLE RECEIVED	08/01/2019	
FINAL TEST DATE	08/12/2019	
PREPARED BY	Tim Royer	
TEST RESULTS	🖾 PASS 🗌 FAIL	

Report Number	Report Version	Description	Issue Date
1997UT19	Rev1	Initial Issue	08/02/2019
MPE_TestReport_	Rev2	Updated power output	09/17/2019

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



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GENERAL REMARKS

Summary

The device under test does:

Fulfill the general approval requirements as identified in this test report and was selected by the customer.

Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070

Prepared by:



Name and Title	Tim Royer, Project Manager / EMC Testing Engineer
Date	08/12/2019



GENERAL INFORMATION

EUT Description	FM BROADCAST TRANSMITTER		
Model Number	TEX702LCD		
EUT Power Source	⊠110–120Vac, 50– 60Hz	DC Power	□ Battery Operated
Test Item	EngineeringPrototype	☑ Pre-Production	Production
Type of Equipment	⊠ Fixed	□ Mobile	Portable
Antenna Connector	external N Type		
Test Conditions	The temperature was 26°C Relative humidity of 50%.		
Modification to the EUT	No Modification to EUT.		
Applicable Standards	FCC CFR 47 Part 2.1091		
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA. Designation #: US1070		

ANTENNA INFORMATION

Manufacturer Provides Antenna	Туре	Max Gain (dBi)
No	Unspecified	0 dBi

POWER OUTPUT OF EUT

Frequency (MHz)	Rated Output Power (dBm)	Rated Output Power (W)
88.0	58.46	700

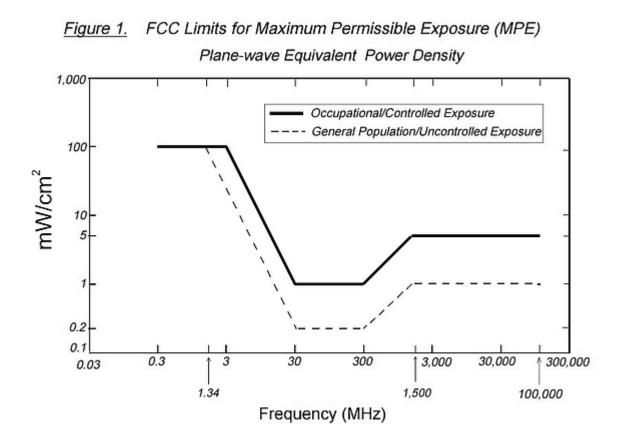


MPE CALCULATION

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

MPE LIMITS



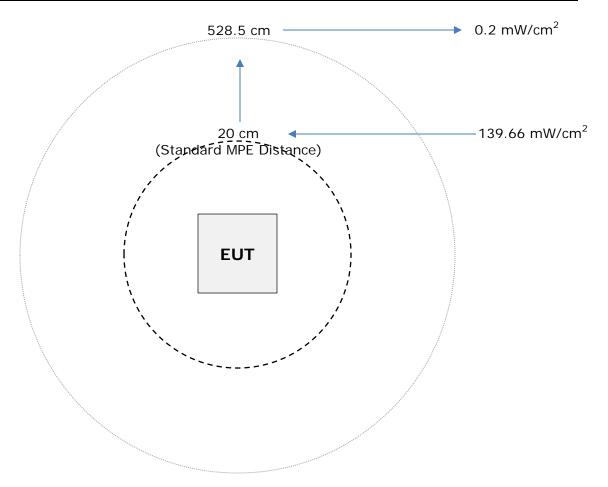


MPE Table

General Uncontrolled Exposure

The limit for General Uncontrolled Exposure Environment is calculated as shown in FCC Pt. 1.1310, Table B:

Variable	Value
Max Power	700 W
Frequency Range	87.5 – 108 MHz
Duty Cycle (at full power)	100%
Max Antenna Gain	0 dB
Coax Loss	0 dB
Power Density	0.2 mW/cm ²
Minimum Separation Distance	528.5 cm



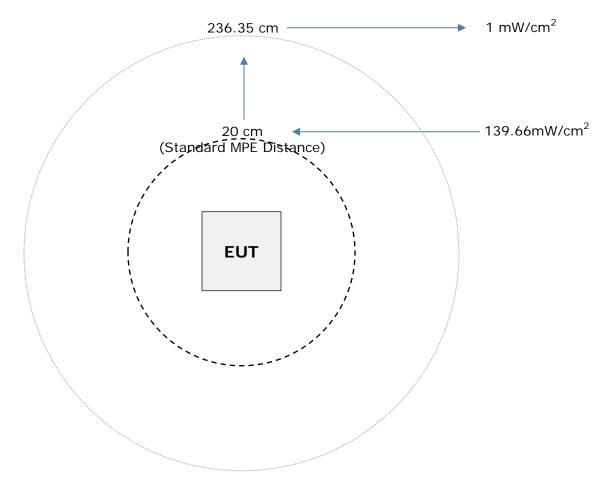
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General Controlled Exposure

The limit for General Controlled Exposure Environment is calculated as shown in FCC Pt. 1.1310, Table A:

Variable	Value
Max Power	700 W
Frequency Range	87.5-108 MHz
Duty Cycle (at full power)	100%
Max Antenna Gain	0 dBi
Coax Loss	0 dB
Power Density	0.2 mW/cm ²
Minimum Separation Distance	239.35 cm



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