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## FCC PART 90

## TEST REPORT

|                      |                                                                        |
|----------------------|------------------------------------------------------------------------|
| APPLICANT            | MIDLAND RADIO CORPORATION                                              |
|                      | 1120 CLAY ST.                                                          |
|                      | NORTH KANSAS CITY MO 64116 USA                                         |
| FCC ID               | MMA911110B                                                             |
| MODEL NUMBER         | 91-1110B                                                               |
| PRODUCT DESCRIPTION  | 110 WATT VHF BASE STATION                                              |
| DATE SAMPLE RECEIVED | 11/1/2006                                                              |
| DATE TESTED          | 11/3/2006                                                              |
| TESTED BY            | RICHARD BLOCK                                                          |
| APPROVED BY          | MARIO DE ARANZETA                                                      |
| TIMCO REPORT NO.     | 3032AUT6TestReport.doc                                                 |
| TOTAL PAGES          | 29                                                                     |
| TEST RESULTS         | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |

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



Certificate # 0955-01

## TEST EQUIPMENT LIST

| Device                                                   | Manufacturer                | Model                    | Serial Number                    | Cal/Char Date          | Due Date       |
|----------------------------------------------------------|-----------------------------|--------------------------|----------------------------------|------------------------|----------------|
| <b>Analyzer<br/>Tan Tower<br/>Spectrum<br/>Analyzer</b>  | <b>HP</b>                   | <b>8566B Opt<br/>462</b> | <b>3138A07786<br/>3144A20661</b> | <b>CAL<br/>12/7/05</b> | <b>12/7/07</b> |
| <b>Analyzer<br/>Tan Tower<br/>RF<br/>Preselector</b>     | <b>HP</b>                   | <b>85685A</b>            | <b>3221A01400</b>                | <b>CAL<br/>12/7/05</b> | <b>12/7/07</b> |
| <b>Analyzer<br/>Tan Tower<br/>Quasi-Peak<br/>Adapter</b> | <b>HP</b>                   | <b>85650A</b>            | <b>3303A01690</b>                | <b>CAL<br/>12/8/05</b> | <b>12/8/07</b> |
| <b>Analyzer<br/>Tan Tower<br/>Preamplifier</b>           | <b>HP</b>                   | <b>8449B-<br/>H02</b>    | <b>3008A00372</b>                | <b>CAL<br/>12/8/05</b> | <b>12/8/07</b> |
| <b>Antenna:<br/>Biconnical</b>                           | <b>Electro-<br/>Metrics</b> | <b>BIA-25</b>            | <b>1171</b>                      | <b>CAL<br/>4/29/05</b> | <b>4/29/07</b> |
| <b>LISN</b>                                              | <b>Electro-<br/>Metrics</b> | <b>ANS-25/2</b>          | <b>2604</b>                      | <b>CAL<br/>10/5/06</b> | <b>10/5/08</b> |

Applicant: MIDLAND RADIO CORPORATION

FCC ID: MMA911110B

Report: M\MidlandRadio\_MMA\3032AUT6\3032AUT6TestReport.doc

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## STATEMENT OF COMPLIANCE

This equipment has been tested in accordance with the standards identified in the referenced test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards. No modifications were made to the equipment during testing in order to demonstrate compliance with these standards.

I attest that the necessary measurements were made by me or under my supervision, at Timco Engineering, Inc. located at 849 N.W. State Road 45, Newberry, Florida 32669 USA.



Certificate # 0955-01

**Authorized by:** Mario de Aranzeta

**Signature:** <Mario de Aranzeta>

**Function:** Engineer

**Date:** 11/22/06

## GENERAL INFORMATION

### DUT Specification

|                                                   |                                                       |
|---------------------------------------------------|-------------------------------------------------------|
| The test results relate only to the items tested. |                                                       |
| <b>DUT Description</b>                            | 110 WATT VHF BASE STATION                             |
| <b>FCC ID</b>                                     | MMA911110B                                            |
| <b>Model Number</b>                               | 91-1110B                                              |
| <b>Serial Number</b>                              | N/A                                                   |
| <b>Operating Frequency</b>                        | 150-174 MHz                                           |
| <b>Type of Emission</b>                           | 11K0F3E, 11K0F2D, 11K0F1D, 11K0F1E, 16K0F3E           |
| <b>Modulation</b>                                 | FM                                                    |
| <b>DUT Power Source</b>                           | <input type="checkbox"/> 110-120Vac/50- 60Hz          |
|                                                   | <input checked="" type="checkbox"/> DC Power          |
|                                                   | <input type="checkbox"/> Battery Operated Exclusively |
| <b>Test Item</b>                                  | <input type="checkbox"/> Prototype                    |
|                                                   | <input checked="" type="checkbox"/> Pre-Production    |
|                                                   | <input type="checkbox"/> Production                   |
| <b>Type of Equipment</b>                          | <input checked="" type="checkbox"/> Fixed             |
|                                                   | <input type="checkbox"/> Mobile                       |
|                                                   | <input type="checkbox"/> Portable                     |
| <b>Antenna</b>                                    | N/A                                                   |
| <b>Antenna Connector</b>                          | N                                                     |

**Test Facility:** The test sites used by Timco Engineering Inc. for collecting radiated and conducted emission data are located at 849 NW State Road 45 Newberry, FL 32669 USA.

**Test Condition:** The DUT was tested in the laboratory in an environment with normal temperature and humidity. The ambient temperature of the DUT was 76°F with a relative humidity of 55%.

**Modification to the DUT:** No modification was made to the DUT during testing.

**Test Exercise (e.g software description, test signal, etc.):** The DUT was placed in continuous transmit mode of operation.

## RF POWER OUTPUT

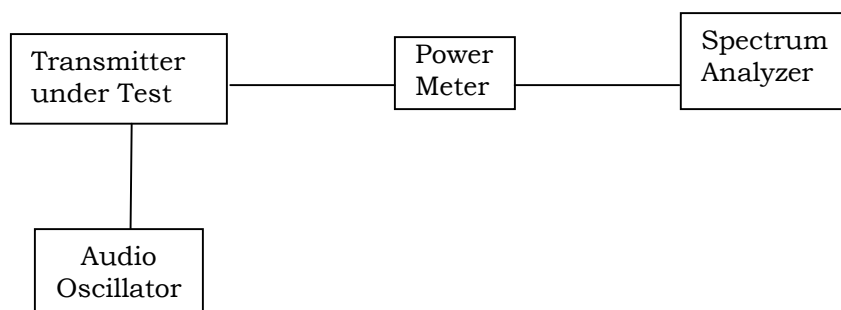
**Rule Part No.:** Part 2.1046(a), Part 90.205

### Test Requirements:

**Method of Measurement:** RF power is measured by connecting a 50-ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage, and the transmitter properly adjusted the RF output measures:

For devices with a fixed antenna, RF power is measured as ERP as the antenna is permanently attached. The substitution method was used. With a nominal battery voltage, and the transmitter properly adjusted the RF output measures:

### Test Setup Diagram:



### Test Data:

OUTPUT POWER: 110.00 Watts

### Part 2.1033 (C)(8) DC Input into the final amplifier

DC Voltage: 12 Vdc      DC Current: 14 A  
 DC Power: 168 Watts

## MODULATION CHARACTERISTICS

**Rule Part No.:** Part 2.1047(a)(b)

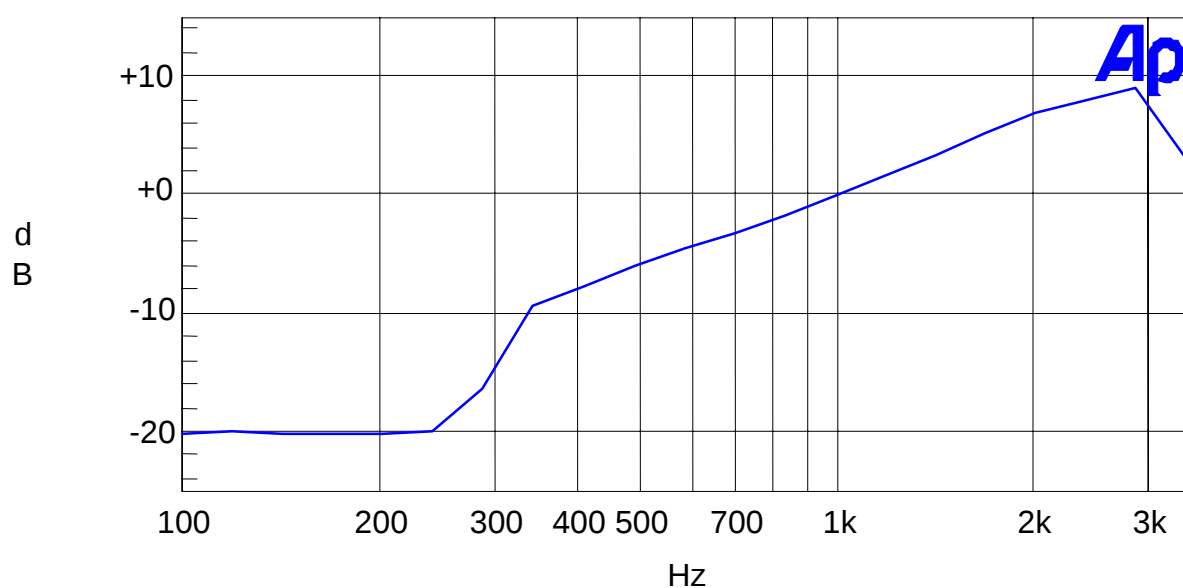
### Test Requirements:

### Method of Measurement:

*Audio frequency response*

The audio frequency response was measured in accordance with TIA/EIA Specification 603 with no exception. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 – 5000Hz shall be submitted. The audio frequency response curve is shown below.

### Audio Frequency Response Plot



| Color | Line Style | Thick | Data                   | Axis |
|-------|------------|-------|------------------------|------|
| Blue  | Solid      | 1     | Anlr.Level A!Normalize | Left |

MaxFreq.at1

Applicant: MIDLAND RADIO CORPORATION

FCC ID: MMA911110B

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## VOICE MODULATED COMMUNICATION EQUIPMENT

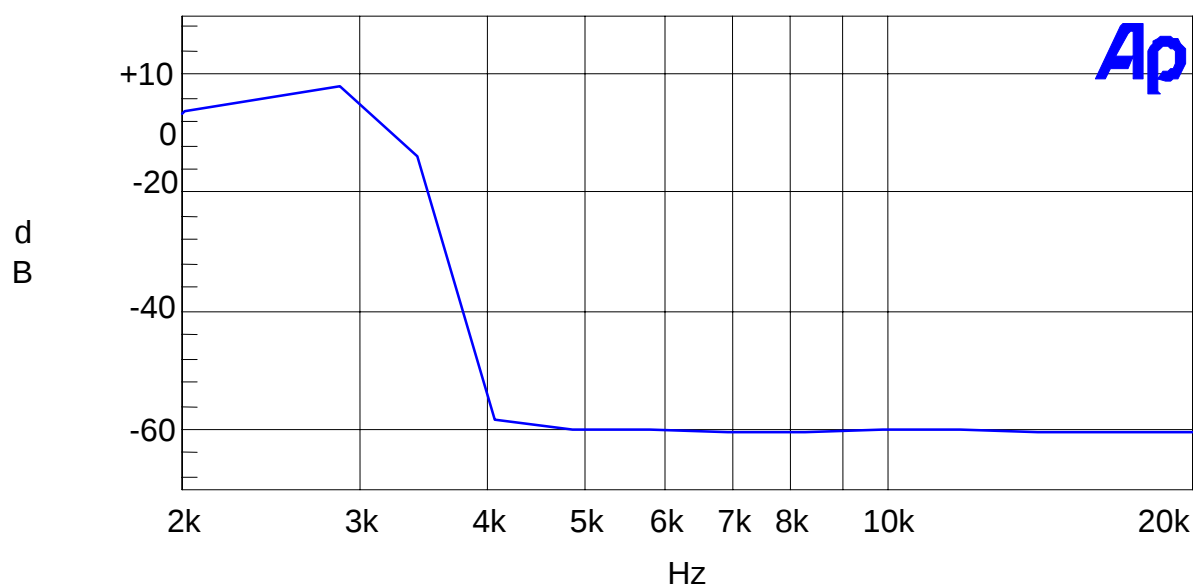
**Rule Part No.:** Part 2.1047(a)

### Test Requirements:

### Method of Measurement:

For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all the circuitry installed between the modulation limiter and the modulated stage shall be submitted.

### Audio Low Pass Filter Plot



| Color | Line Style | Thick | Data                   | Axis |
|-------|------------|-------|------------------------|------|
| Blue  | Solid      | 1     | Anlr.Level A!Normalize | Left |

MaxFreq.at1

Applicant: MIDLAND RADIO CORPORATION

FCC ID: MMA911110B

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## AUDIO INPUT VERSUS MODULATION

**Rule Part No.:** Part 2.1047(b) & 90

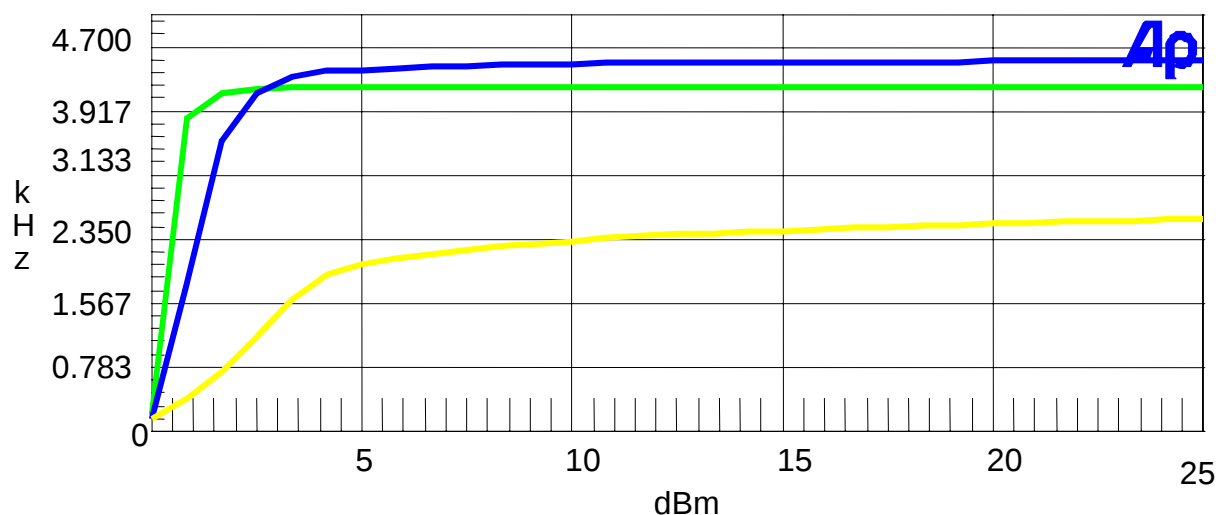
### Test Requirements:

**Method of Measurement:** Modulation should not exceed 100%, The audio input level needed for a particular percentage of modulation was measured in accordance with TIA/EIA Specification 603. The audio input curves versus modulation are shown below. Curves are provided for audio input frequencies of 300, 1000, and 2500 Hz.

### Test data:

#### Modulation Limiting Plot 25kHz

2.5 KHz (Green), 1.0 KHz (Blue), and 300 Hz (Yellow)



| Color  | Line Style | Thick | Data         | Axis |
|--------|------------|-------|--------------|------|
| Green  | Solid      | 3     | Anlr.Level A | Left |
| Blue   | Solid      | 3     | Anlr.Level A | Left |
| Yellow | Solid      | 3     | Anlr.Level A | Left |

modulation limiting.at2

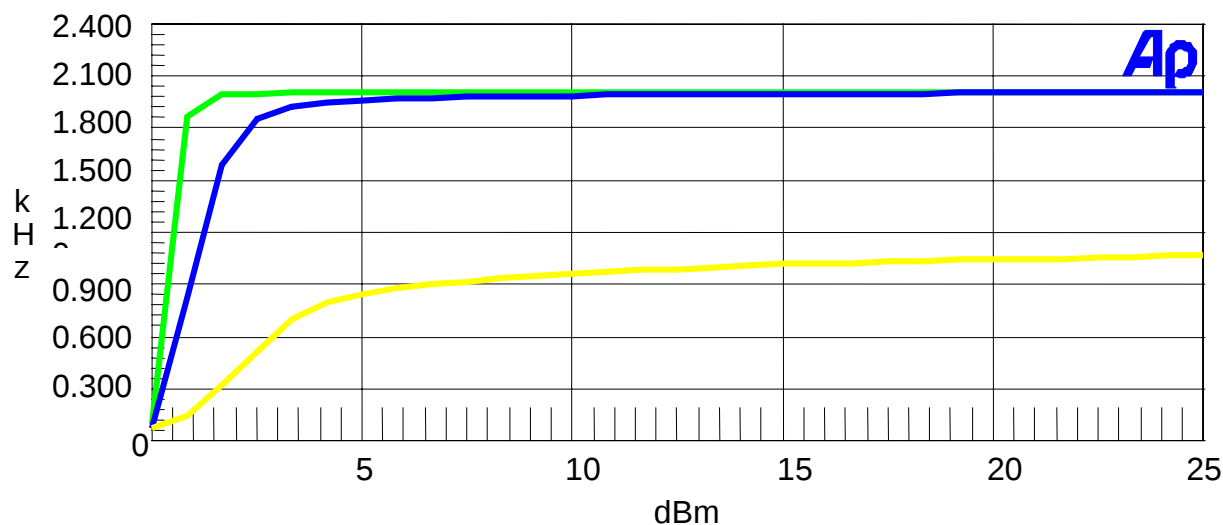
Applicant: MIDLAND RADIO CORPORATION

FCC ID: MMA911110B

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# Modulation Limiting Plot 12.5kHz

2.5 KHz (Green), 1.0 KHz (Blue), and 300 Hz (Yellow)



| Color  | Line Style | Thick | Data         | Axis |
|--------|------------|-------|--------------|------|
| Green  | Solid      | 3     | Anlr.Level A | Left |
| Blue   | Solid      | 3     | Anlr.Level A | Left |
| Yellow | Solid      | 3     | Anlr.Level A | Left |

modulation limiting.at2

**OCCUPIED BANDWIDTH: Part 2.1049****Part 2.1049(c) Emission Bandwidth  
Part 90.210(b) 25kHz Channel Spacing**

Data in the plots show that on any frequency removed from the assigned frequency by more than 50%, but not more than 100%: At least 25dB. On any frequency removed from the assigned frequency by more than 100%, but not more than 250%: At least 35 dB. On any frequency removed from the assigned frequency by more than 250%, of the authorized bandwidth: At least  $43 + 10\log(P)$ dB.

**Part 90.210(c) 12.5kHz Channel Spacing Not Equipped with a Low Pass Filter**

For transmitters that are not equipped with an audio low pass filter pursuant to S90.211 (b), the power of any emission must be attenuated below the un-modulated carrier output power as follows; (1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency ( $f_d$  in kHz) of more than 5 kHz but not more than 10 kHz: At least  $83 \log(f_d/5)$  dB; (2) ON any frequency removed from the center of the authorized bandwidth by a displacement frequency ( $f_d$  in kHz) of more than 10 kHz, but not more than 250% of the authorized bandwidth: At least  $29 \log(f_d/11)$ dB or 50 dB, whichever is the lesser attenuation; (3) On any frequency removed from the center of the authorized bandwidth by more than 250% of the authorized bandwidth: At least  $43 + 10 \log(P_0)$ dB.

**Part 90.210(d) Emission Mask D - 12.5 kHz channel BW equipment.**

For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth  $f_0$  to 5.625 kHz removed from  $f_0$ : Zero dB.
- (2) On any frequency from the center of the authorized bandwidth by a displacement frequency ( $f_d$  in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least  $7.27(f_d - 2.88 \text{ kHz})$  dB.
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency ( $f_d$  in kHz) of more than 12.5 kHz: At least  $50 + 10\log(P)$  dB or 70 dB, whichever is the lesser attenuation.

**OTHER MODULATION CHARACTERISTICS****Part 2.1033(c)****Part 2.1033(c) (4)** Type of Emission: 11K2F1D , 11K2F2D, and 11K2F1E**Part 90.209****Part 90.207**  $B_n = 2M + 2DK$ 

$$M = B/2 = 9600/2 = 4800$$

$$D = 800$$

$$K=1$$

$$B_n = 2(4800) + 2(800) = 11.2k$$

**Part 2.1033(c) (4)** Type of Emission: 11K2F3E**Part 90.209****Part 90.207**  $B_n = 2M + 2DK$ 

$$M = 3000$$

$$D = 2100$$

$$K=1$$

$$B_n = 2(3000) + 2(2100) = 10.2k$$

**Part 2.1033(c) (4)** Type of Emission: 16K0F3E**Part 90.209****Part 90.207**  $B_n = 2M + 2DK$ 

$$M = 3000$$

$$D = 4700$$

$$K=1$$

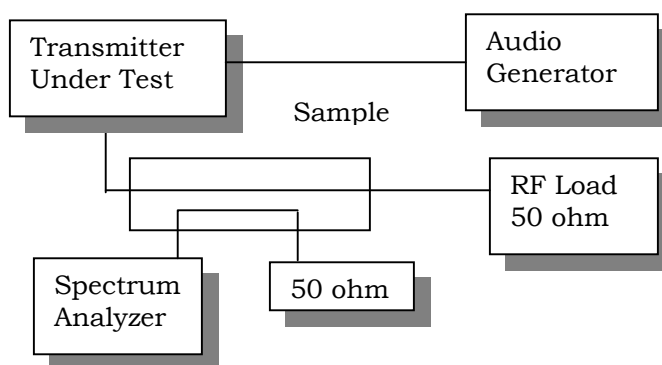
$$B_n = 2(3000) + 2(4700) = 15.4k$$

## OCCUPIED BANDWIDTH

### Test Requirements:

**Method of Measurement:** TIA 603 para 2.2.11

### Test Setup Diagram:



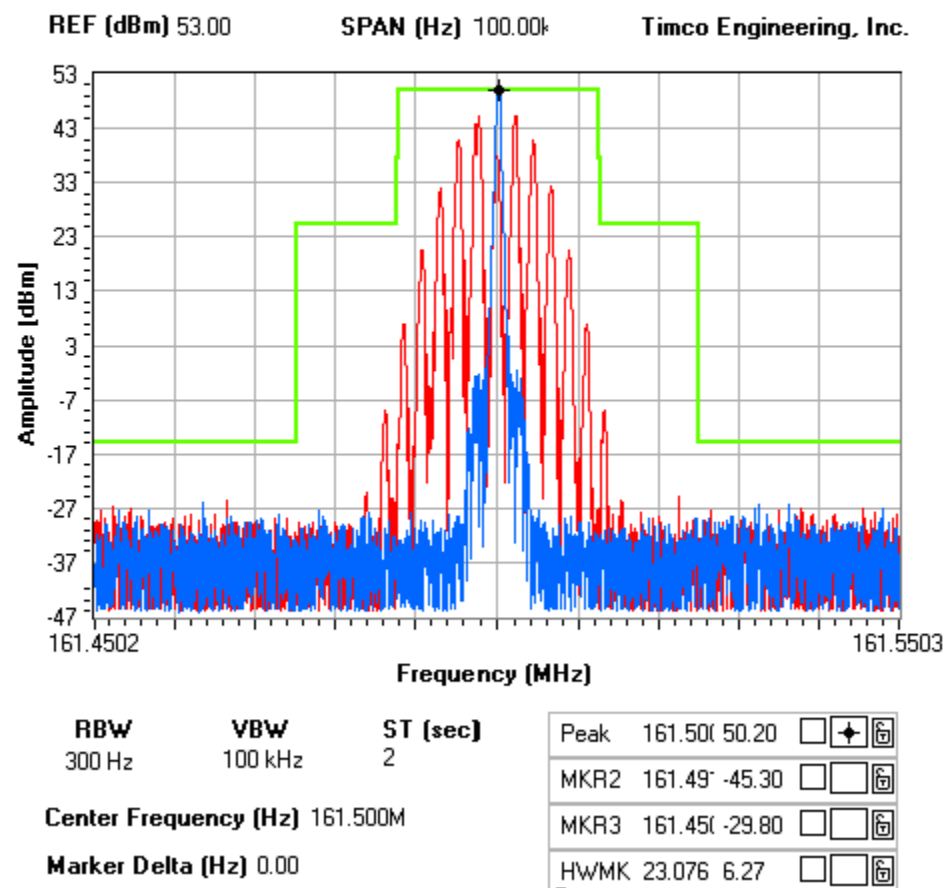
**Test Data:** See the plots below

**NOTES:**

OCCUPIED BANDWIDTH -- 25kHz

MIDLAND RADIO CORPORATION -- FCC ID: MMA911110B

**FCC 90.210 Mask B**



Applicant: MIDLAND RADIO CORPORATION

FCC ID: MMA911110B

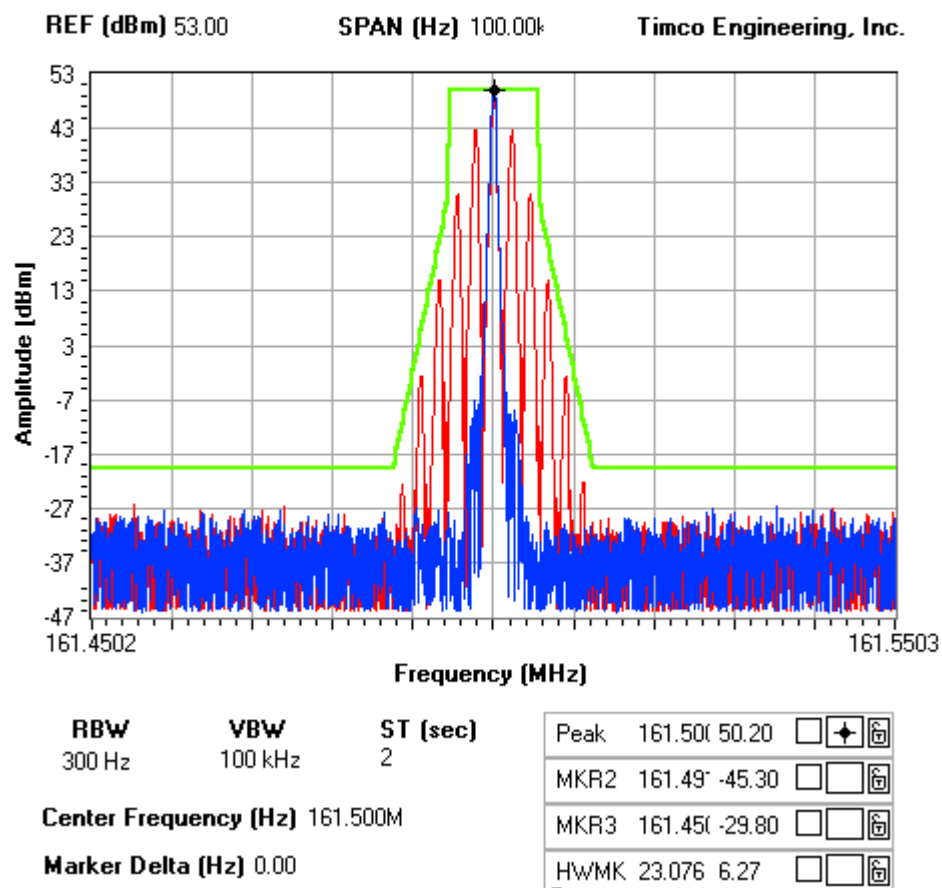
Report: M\MidlandRadio\_MMA\3032AUT6\3032AUT6TestReport.doc

**NOTES:**

OCCUPIED BANDWIDTH -- 12.5kHz

MIDLAND RADIO CORPORATION -- FCC ID: MMA911110B

**FCC 90.210 Mask D**



Applicant: MIDLAND RADIO CORPORATION

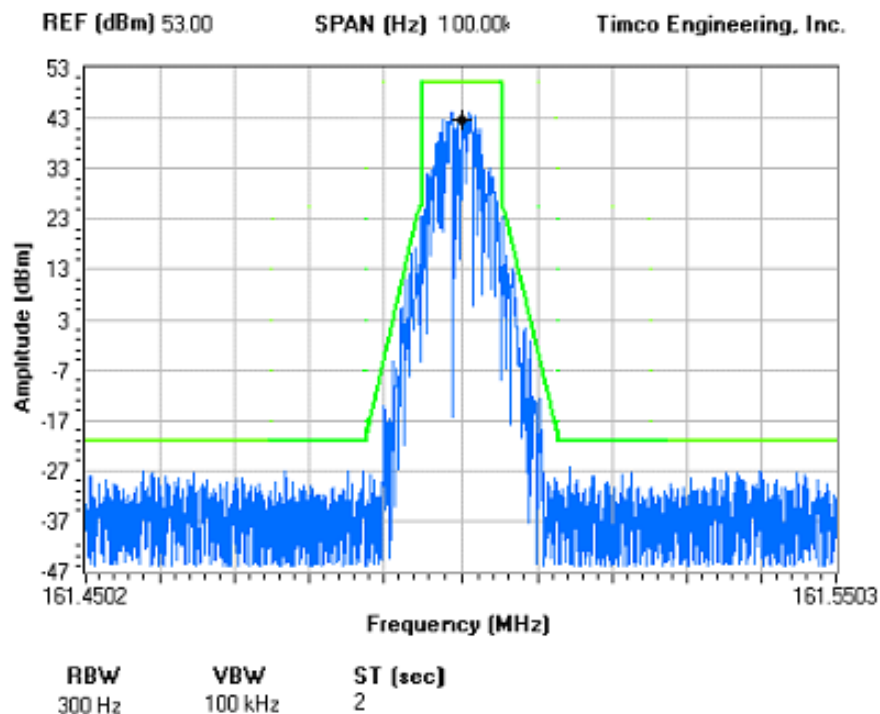
FCC ID: MMA911110B

Report: M\MidlandRadio\_MMA\3032AUT6\3032AUT6TestReport.doc

**NOTES:**

OCCUPIED BANDWIDTH 12.5kHz -- DIGITAL  
MIDLAND RADIO CORPORATION -- FCC ID: MMA911110B

FCC 90.210 Mask D



Applicant: MIDLAND RADIO CORPORATION

FCC ID: MMA911110B

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## SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

**Rule Part No.:** Part 2.1051(a)

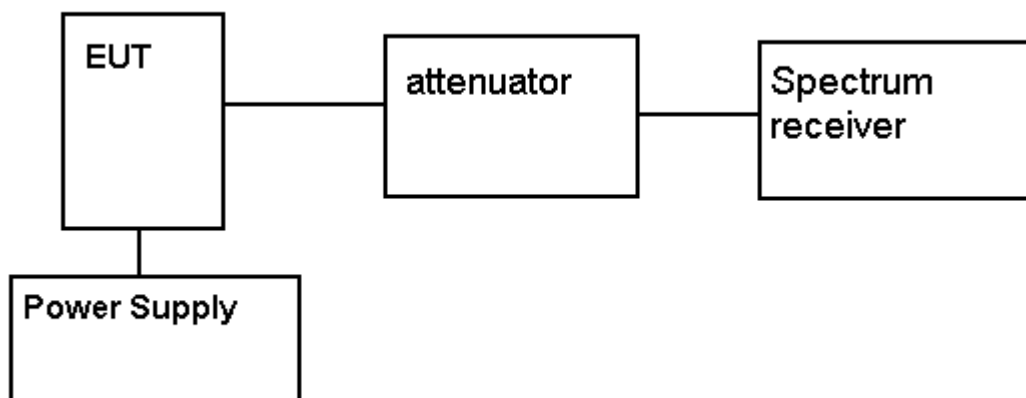
**Requirements:** 12.5 kHz Spacing =  $50 + 10\log(110) = 70.4$  dB

**Method of Measurement:** The carrier was modulated 100% using a 2500 Hz tone. The spectrum was scanned from 0.4 to at least the 10th harmonic of the fundamental. The measurements were made in accordance with standard TIA/EIA-603.

### Test Data:

| EF       | dB below carrier |  | EF       | dB below carrier |  | EF       | dB below carrier |
|----------|------------------|--|----------|------------------|--|----------|------------------|
| 150.000  | 0.0              |  | 161.500  | 0.0              |  | 173.975  | 0.0              |
| 300.000  | 90.5             |  | 323.000  | 92.7             |  | 347.950  | 96.3             |
| 450.000  | 91.0             |  | 484.500  | 92.6             |  | 521.925  | 98.1             |
| 600.000  | 107.2            |  | 646.000  | 108.0            |  | 695.900  | 107.5            |
| 750.000  | 102.9            |  | 807.500  | 104.0            |  | 869.875  | 103.0            |
| 900.000  | 109.3            |  | 969.000  | 96.4             |  | 1043.850 | 95.2             |
| 1050.000 | 86.7             |  | 1130.500 | 98.5             |  | 1217.825 | 97.7             |
| 1200.000 | 97.3             |  | 1292.000 | 98.7             |  | 1391.800 | 97.9             |
| 1350.000 | 99.2             |  | 1453.500 | 97.8             |  | 1565.775 | 97.0             |
| 1500.000 | 99.6             |  | 1615.000 | 97.8             |  | 1739.750 | 97.3             |

## METHOD OF MEASURING CONDUCTED SPURIOUS EMISSIONS



**METHOD OF MEASUREMENT:** The procedure used was TIA/EIA-603 Standard without any exceptions. The measurements were made at TIMCO ENGINEERING INC. 849 N.W. State Road 45, Newberry, Florida 32669.

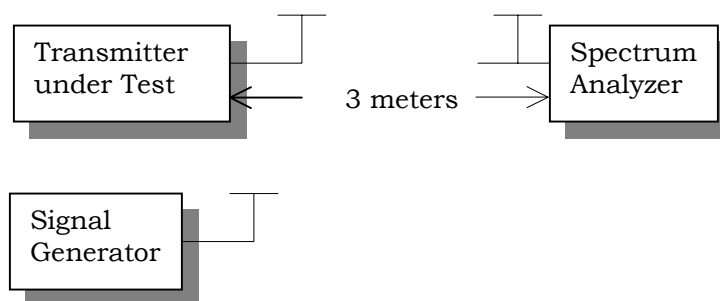
## FIELD STRENGTH OF SPURIOUS EMISSIONS

**Rule Parts. No.:** Part 2.1053

**Requirements:** The FCC limits for radiated emissions are the same as previously stated for the conducted emissions.

**Method of Measurement:** The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA standard 603 using the substitution method. Measurements were made at the test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

### Test Setup Diagram:



### Test Data:

| Emission Frequency MHz | Ant. Polarity | dB Below Carrier (dBc) |
|------------------------|---------------|------------------------|
| 150.00                 | 0             | 0                      |
| 300.00                 | H             | 120.17                 |
| 450.00                 | H             | 109.25                 |
| 600.00                 | H             | 95.95                  |
| 750.00                 | V             | 88.53                  |
| 900.00                 | V             | 95.24                  |
| 1050.00                | H             | 98.36                  |
| 1200.00                | V             | 86.51                  |
| 1350.00                | V             | 80.95                  |
| 1500.00                | V             | 100.7                  |

Applicant: MIDLAND RADIO CORPORATION

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## FIELD STRENGTH OF SPURIOUS EMISSIONS

**Rule Parts. No.:** Part 2.1053

**Requirements:** The FCC limits for radiated emissions are the same as previously stated for the conducted emissions.

| Emission Frequency MHz | Ant. Polarity | dB Below Carrier (dBc) |
|------------------------|---------------|------------------------|
| 161.50                 | 0             | 0                      |
| 323.00                 | H             | 116.05                 |
| 484.50                 | H             | 97.97                  |
| 646.00                 | V             | 104.79                 |
| 807.50                 | H             | 89.85                  |
| 969.00                 | V             | 90.67                  |
| 1130.50                | V             | 85.19                  |
| 1292.00                | V             | 96.69                  |
| 1453.50                | V             | 99.18                  |
| 1615.00                | H             | 85.21                  |

| Emission Frequency MHz | Ant. Polarity | dB Below Carrier (dBc) |
|------------------------|---------------|------------------------|
| 173.98                 | 0             | 0                      |
| 347.95                 | H             | 119.25                 |
| 521.93                 | H             | 96.76                  |
| 695.90                 | V             | 105.67                 |
| 869.88                 | V             | 88.99                  |
| 1043.85                | H             | 107.28                 |
| 1217.83                | H             | 89.32                  |
| 1391.80                | V             | 103.46                 |
| 1565.78                | H             | 96.62                  |
| 1739.75                | V             | 83.76                  |

Applicant: MIDLAND RADIO CORPORATION

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## FREQUENCY STABILITY

**Rule Parts. No.:** Part 2.1055, Part 90.213

**Requirements:** Temperature range requirements: -30 to +50° C.  
Voltage Variation +, -15%  
±1.5 PPM

**Method of Measurements:** TIA/EIA 603.

### Test Data:

| Assigned Frequency (Ref. Frequency) (MHz) |                 | 161.500076                |
|-------------------------------------------|-----------------|---------------------------|
| Temperature (°C)                          | Frequency (MHz) | Frequency Stability (PPM) |
| -30                                       | 161.500122      | 0.28                      |
| -20                                       | 161.500046      | -0.19                     |
| -10                                       | 161.500031      | -0.28                     |
| 0                                         | 161.500031      | -0.28                     |
| +10                                       | 161.500046      | -0.19                     |
| +20                                       | 161.500076      | 0.00                      |
| +30                                       | 161.500046      | -0.19                     |
| +40                                       | 161.500015      | -0.38                     |
| +50                                       | 161.499985      | -0.56                     |

| Assigned Frequency (Ref. Frequency) (MHz) |                 |                           |
|-------------------------------------------|-----------------|---------------------------|
| % Battery                                 | Frequency (MHz) | Frequency Stability (PPM) |
| -15%                                      | 161.500076      | 0.00                      |
| 0                                         | 161.500076      | 0.00                      |
| +15%                                      | 161.500076      | 0.00                      |

## FREQUENCY STABILITY (contd)

### Part 90.214 Transient Frequency Behavior

**REQUIREMENTS:** Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum transient frequencies within the maximum frequency difference limits during the time intervals indicated:

| Time Intervals | Maximum frequency difference | All Equipment |             |
|----------------|------------------------------|---------------|-------------|
|                |                              | 150-174 MHz   | 421-512 MHz |

#### Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels

|         |                |         |         |
|---------|----------------|---------|---------|
| $t_1^4$ | $\pm 25.0$ kHz | 5.0 ms  | 10.0 ms |
| $t_2$   | $\pm 12.5$ kHz | 20.0 ms | 25.0 ms |
| $t_3^4$ | $\pm 25.0$ kHz | 5.0 ms  | 10.0 ms |

#### Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels

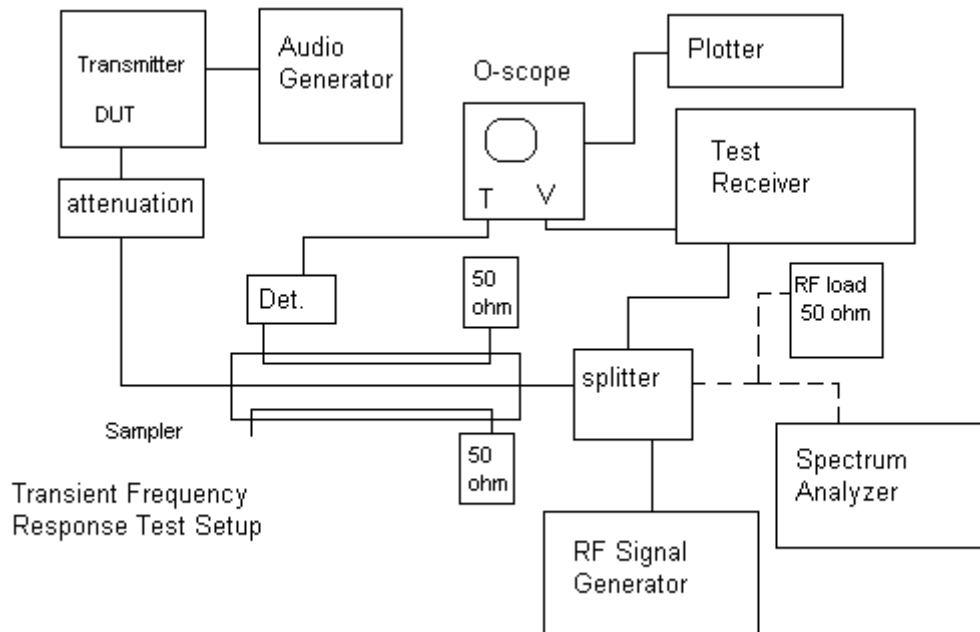
|         |                |         |         |
|---------|----------------|---------|---------|
| $t_1^4$ | $\pm 12.5$ kHz | 5.0 ms  | 10.0 ms |
| $t_2$   | $\pm 6.25$ kHz | 20.0 ms | 25.0 ms |
| $t_3^4$ | $\pm 12.5$ kHz | 5.0 ms  | 10.0 ms |

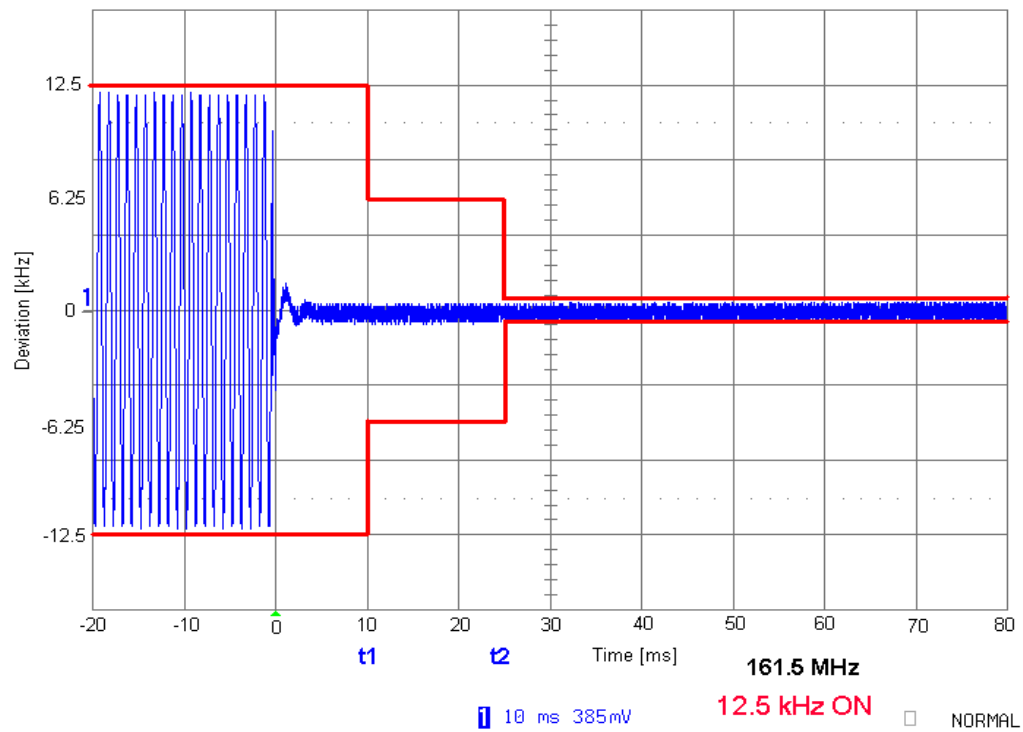
#### Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels

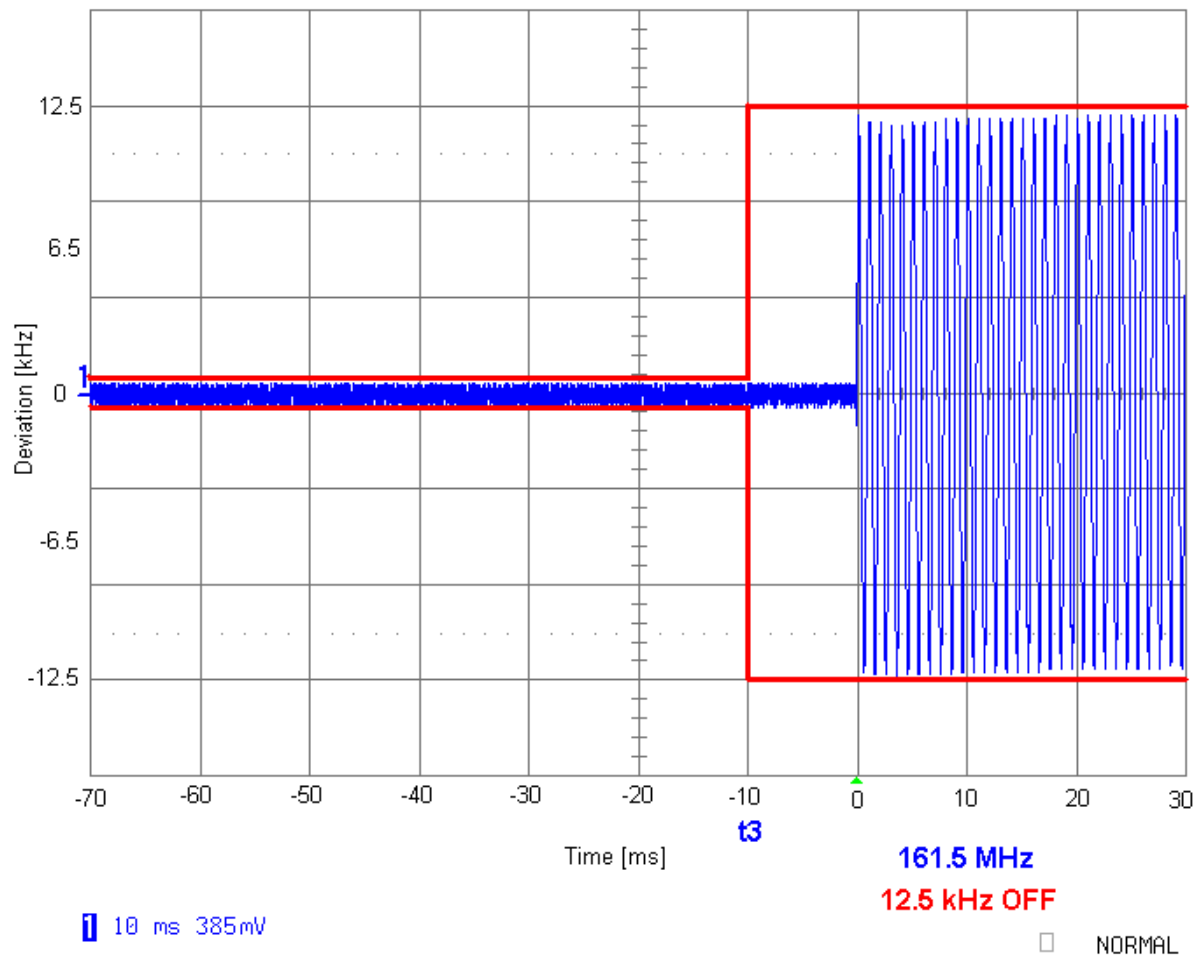
|         |                 |         |         |
|---------|-----------------|---------|---------|
| $t_1^4$ | $\pm 6.25$ kHz  | 5.0 ms  | 10.0 ms |
| $t_2$   | $\pm 3.125$ kHz | 20.0 ms | 25.0 ms |
| $t_3^4$ | $\pm 6.25$ kHz  | 5.0 ms  | 10.0 ms |

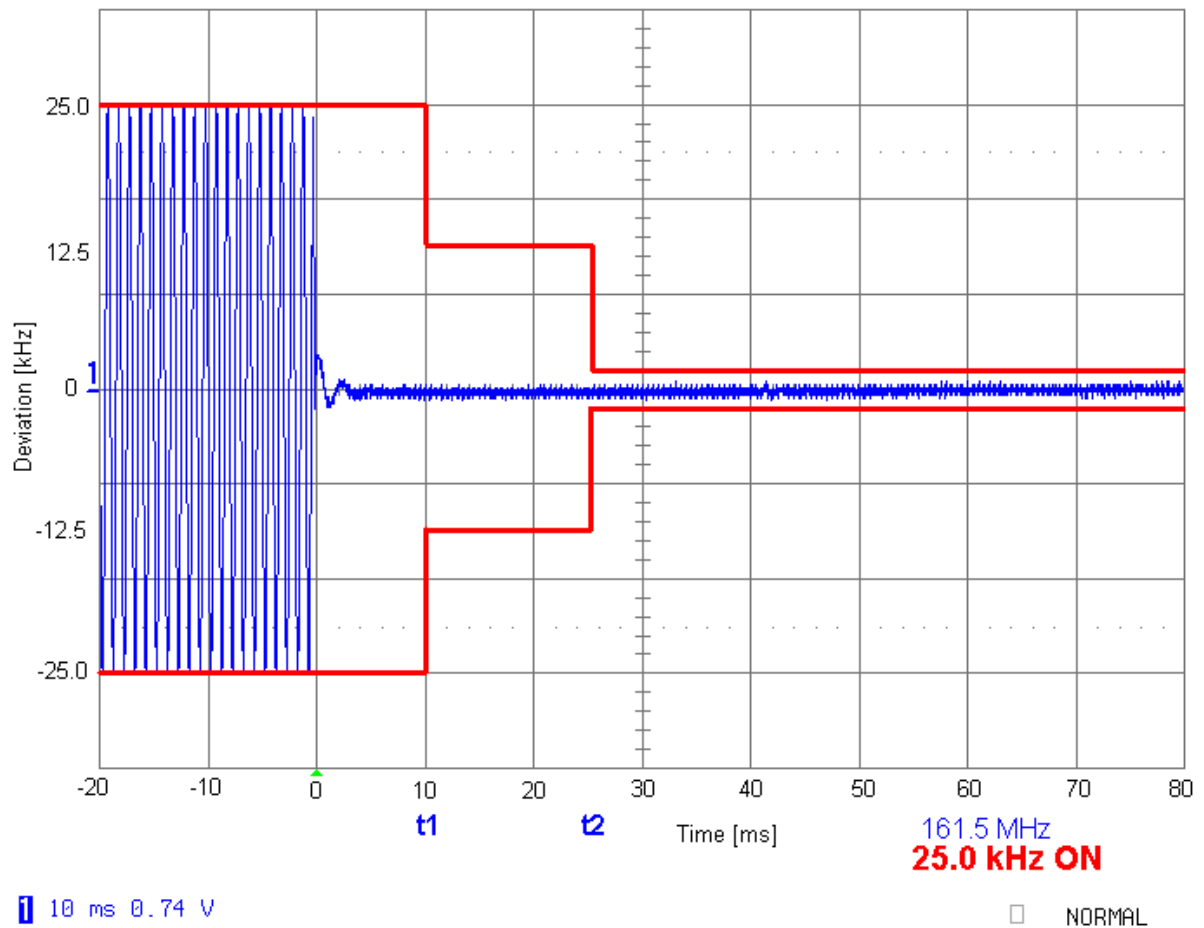
**TEST PROCEEDURE:** TIA/EIA TS603 PARA 2.2.19, the levels were set as follows:

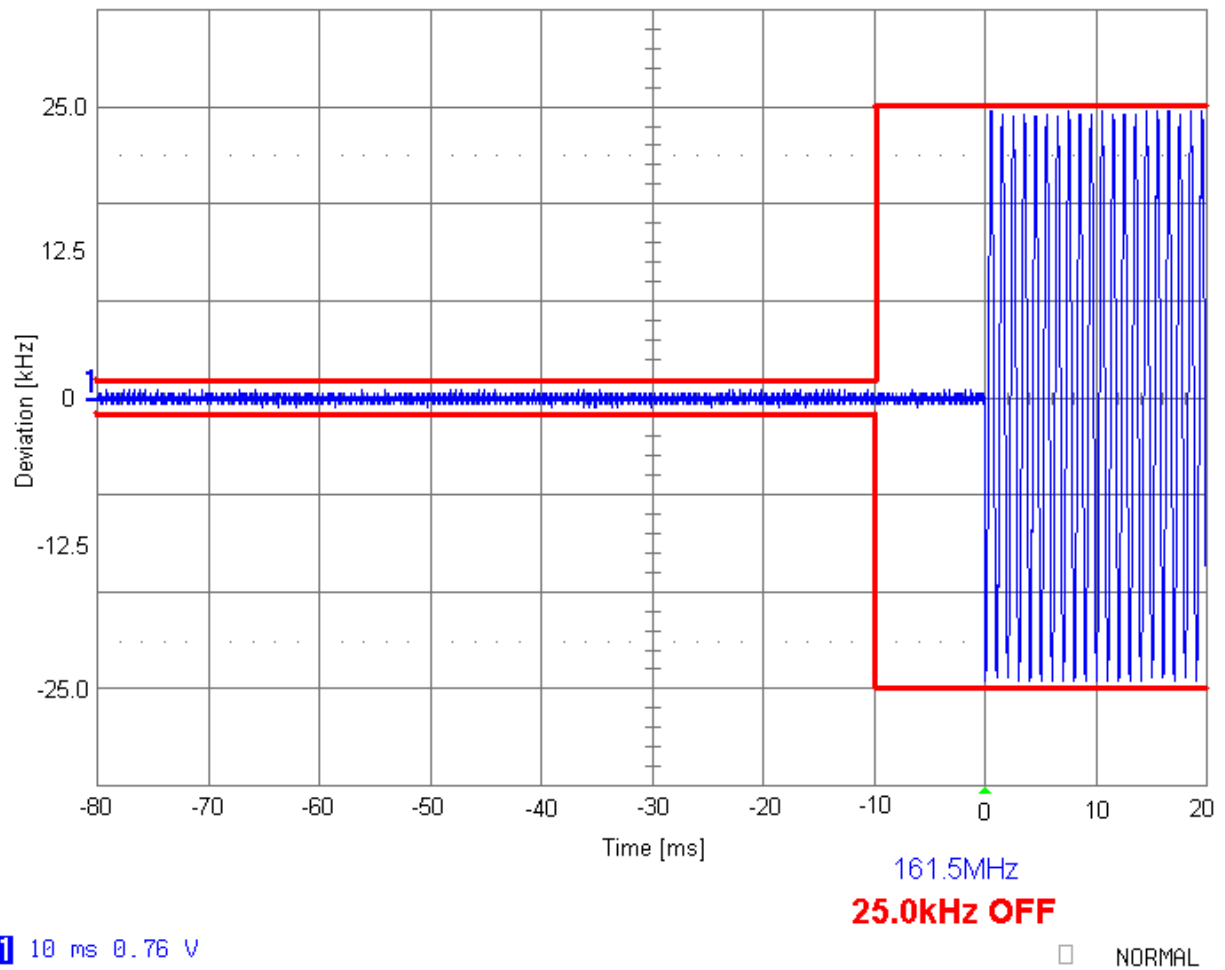
1. Using the variable attenuator the transmitter level was set to 40 dB below the test receivers maximum input level, then the transmitter was turned off.
2. With the transmitter off the signal generator was set 20dB below the level of the transmitter in the above step, this level will be maintained with the signal generator through-out the test.
3. Reduce the attenuation between the transmitter and the RF detector by 30 dB.
4. With the levels set as above the transient frequency behavior was observed & recorded.











**TEST SET UP PHOTO**



Applicant: MIDLAND RADIO CORPORATION

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