

**TEST REPORT**

|      | <u>MEASUREMENT</u>                                                                      | <u>EXHIBIT</u> | <u>NUMBER OF PAGES</u> |
|------|-----------------------------------------------------------------------------------------|----------------|------------------------|
| I    | RF Power Output                                                                         | 6A1-2          | 2                      |
| II   | Audio Response                                                                          | 6B             | 1                      |
| III  | Low Pass Filter Response                                                                | 6C             | 1                      |
| IV   | Modulation Limiting<br>A. 12.5 kHz channel spacing case                                 | 6D             | 1                      |
| V    | Occupied Bandwidth                                                                      | 6E -1          | 2                      |
| VI   | Conducted Spurious Emissions                                                            | 6F 1-2         | 2                      |
| VII  | Radiated Spurious Emissions<br>A. Tx Vertical – 0.5 Watt<br>B. Tx Horizontal – 0.5 Watt | 6G<br>6G       | 2                      |
| VIII | Frequency Stability<br>A. Temperature<br>B. Supply Voltage                              | 6H-1<br>6H-2   | 1<br>1                 |

EXHIBIT 6

**RF POWER OUTPUT DATA**

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

**0.5 Watt**

|                                 |      |       |
|---------------------------------|------|-------|
| Measured RF output              | .505 | Watts |
| Nominal DC Voltage              | 4.0  | Volts |
| Nominal DC Current              | 450  | mA    |
| Primary Supply Voltage          | 4.0  | Volts |
| Effective Radiated Power (ERP)* | 26.3 | dBm   |

- This is a calculated number from graph 6A-1 where it shows an ERP of -11.6 dBm and the anechoic chamber's path loss was measured to be 37.9 dBm.

EXHIBIT: 6A-1

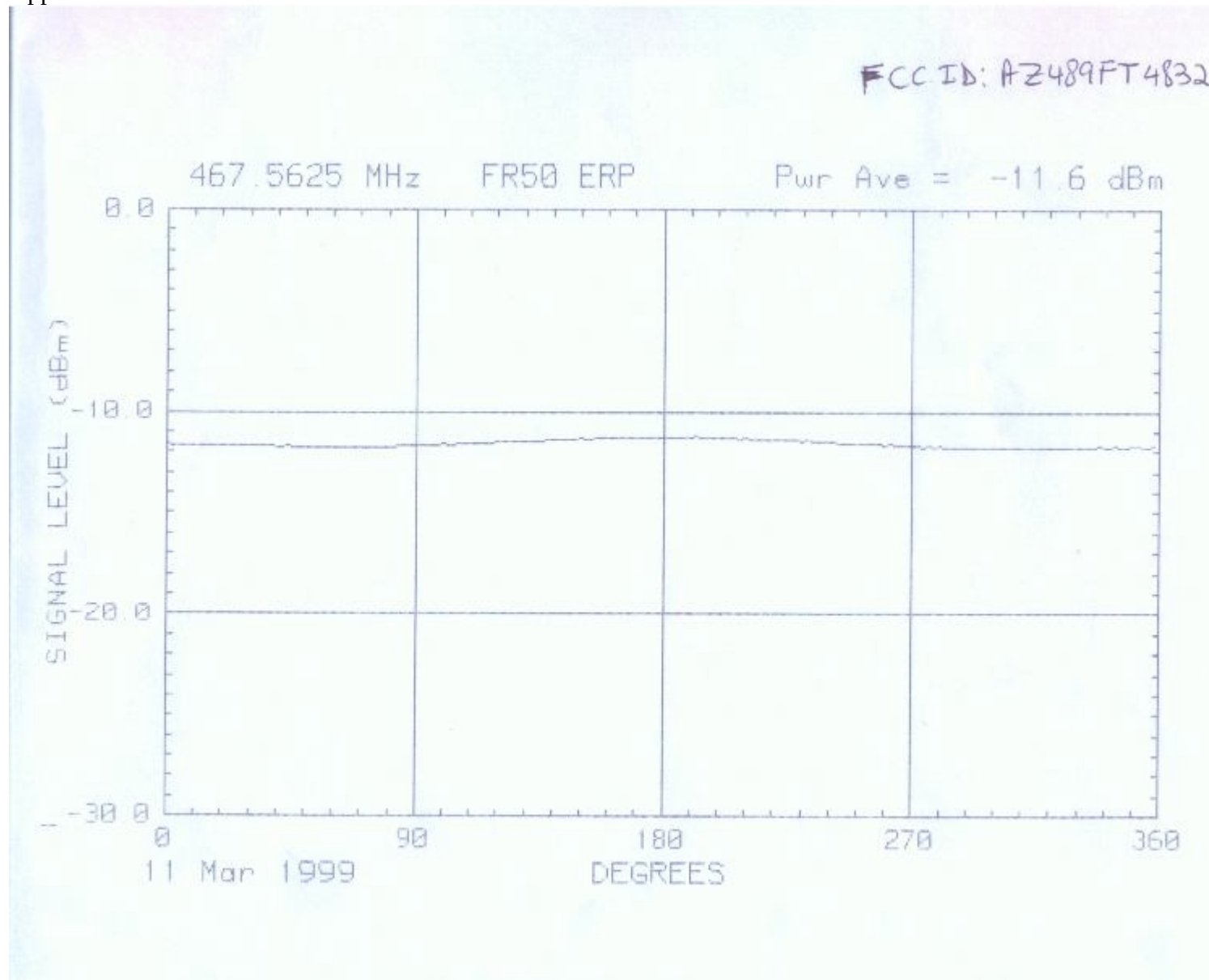
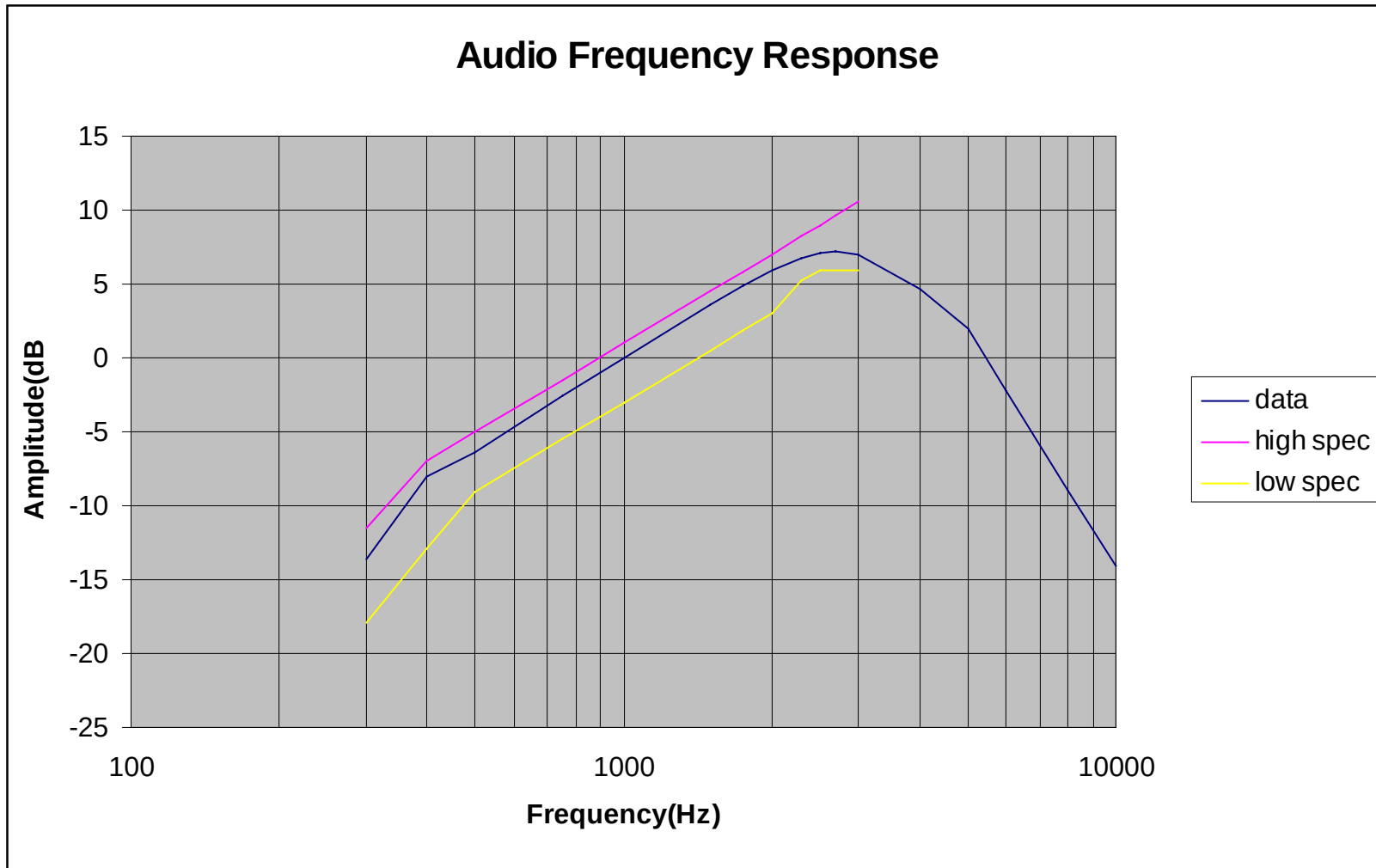
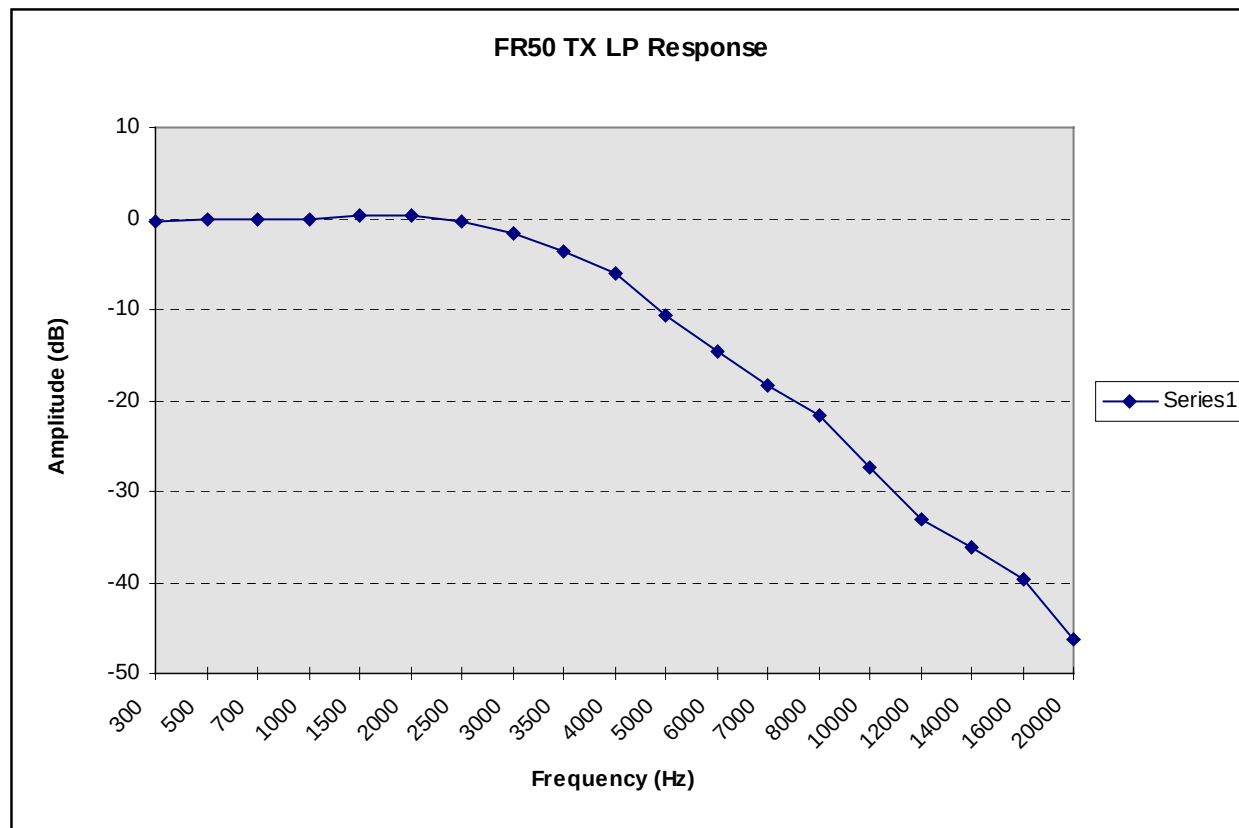


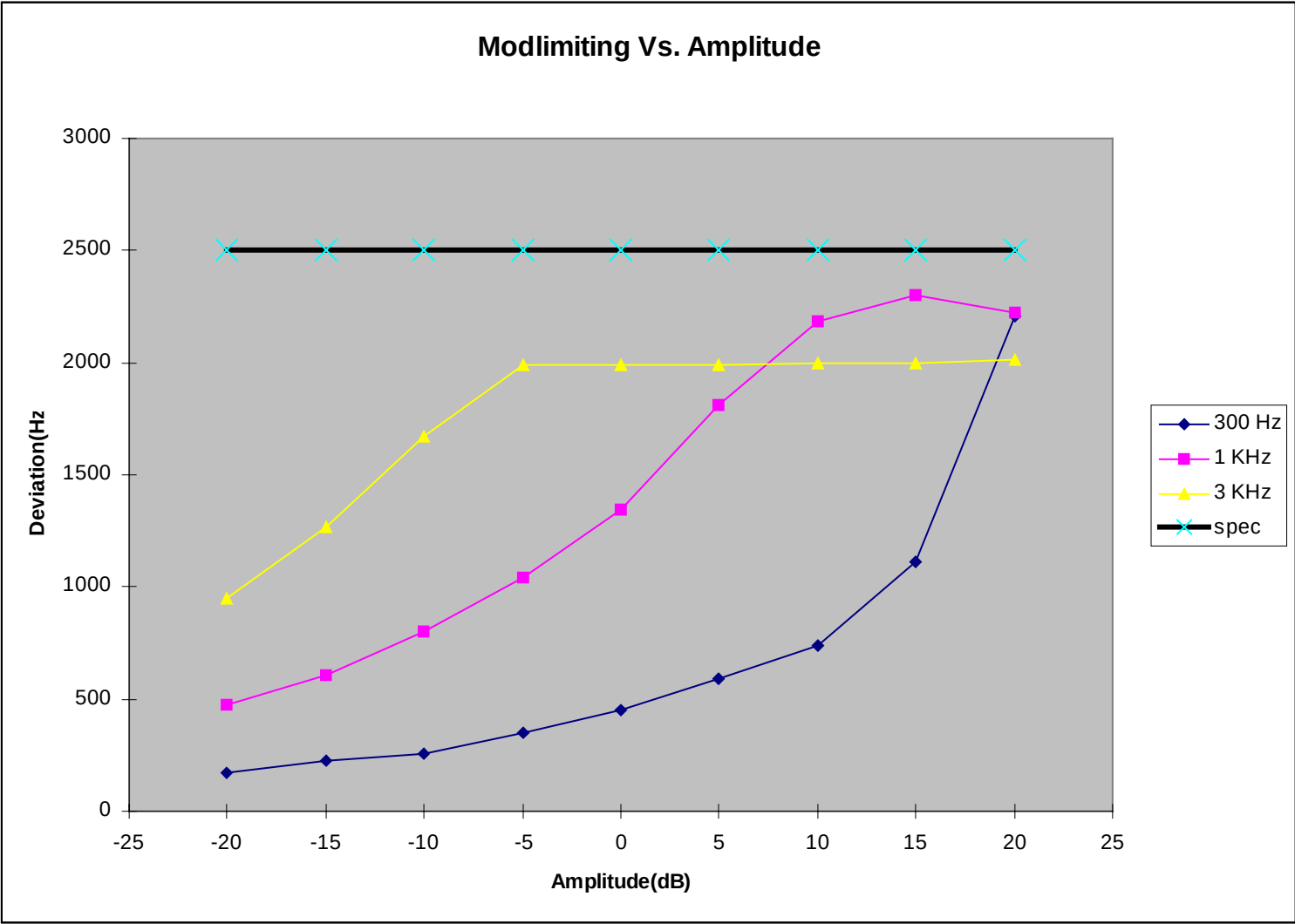
Exhibit 6A-2





**From 10 kHz to 20 kHz was in the noise floor of instrument.**

**EXHIBIT 6C**



**OCCUPIED BANDWIDTH DATA**

12.5 kHz Channel Spacing

EXHIBIT 6E-2

2500 Hz Audio Modulation

Emission Type: 11K0F3E

Horizontal: 10 kHz/Div.

Vertical: 10 dB/Div.

Carrier Ref: 0 dB

Specification Mask per FCC Rule Part 95.635.

CARSON'S RULE

**11K0F3E:**

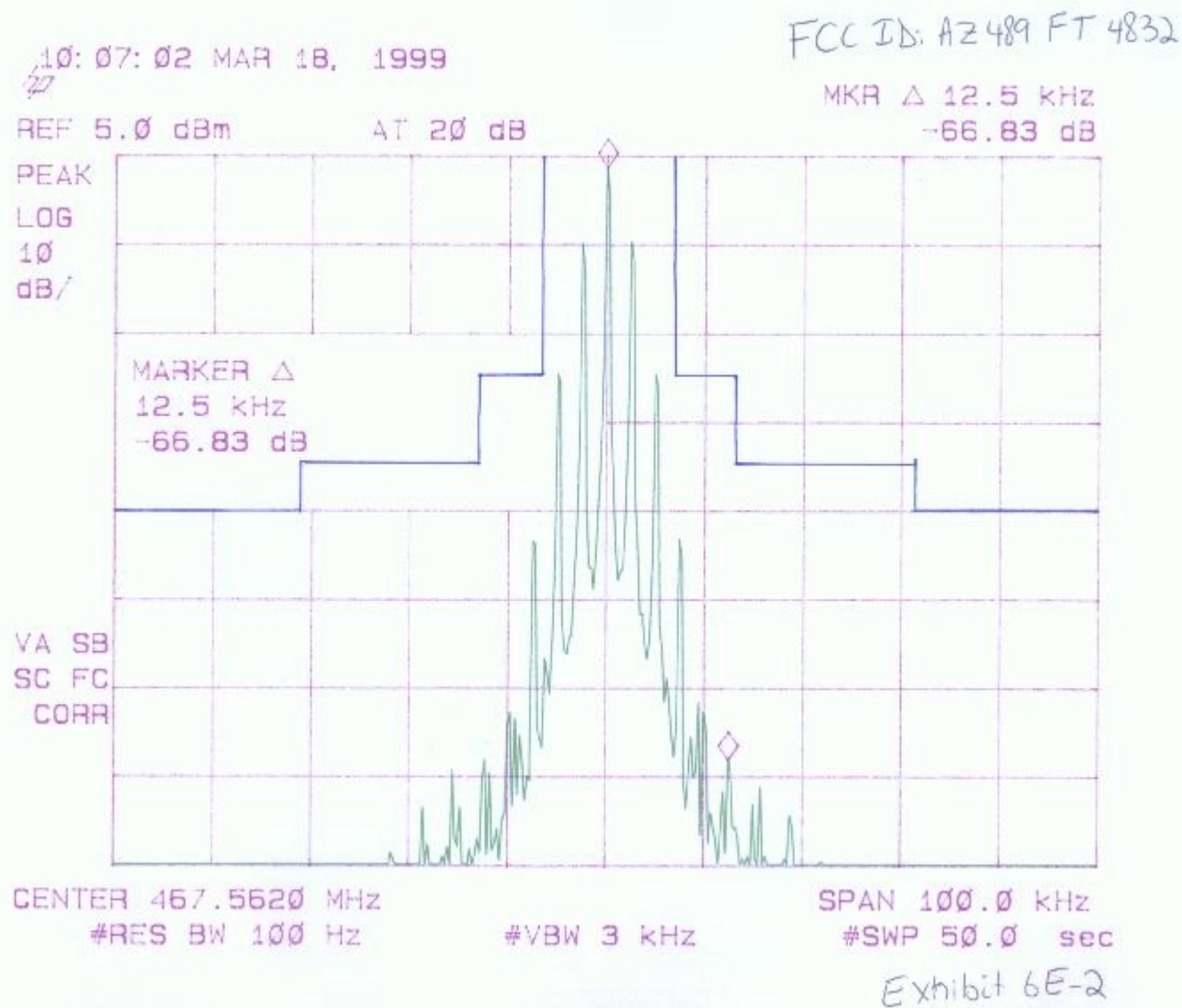
$BW = 2(M + D)$

$BW = 2 (3 \text{ kHz maximum modulation frequency} + 2.5 \text{ kHz deviation})$

$BW = 2 (5.5)$

$BW = 11 \text{ kHz}$

**EXHIBIT 6E-1**



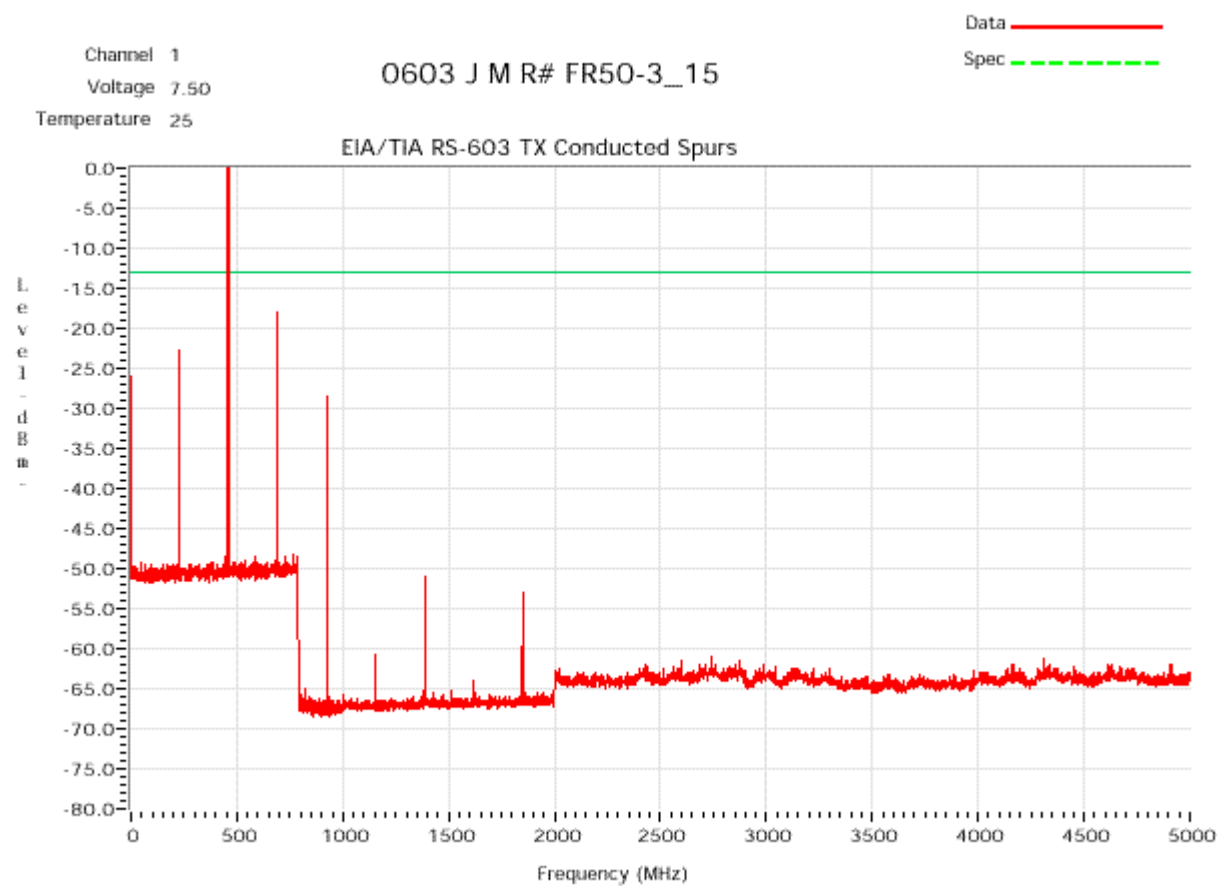


EXHIBIT 6F-1

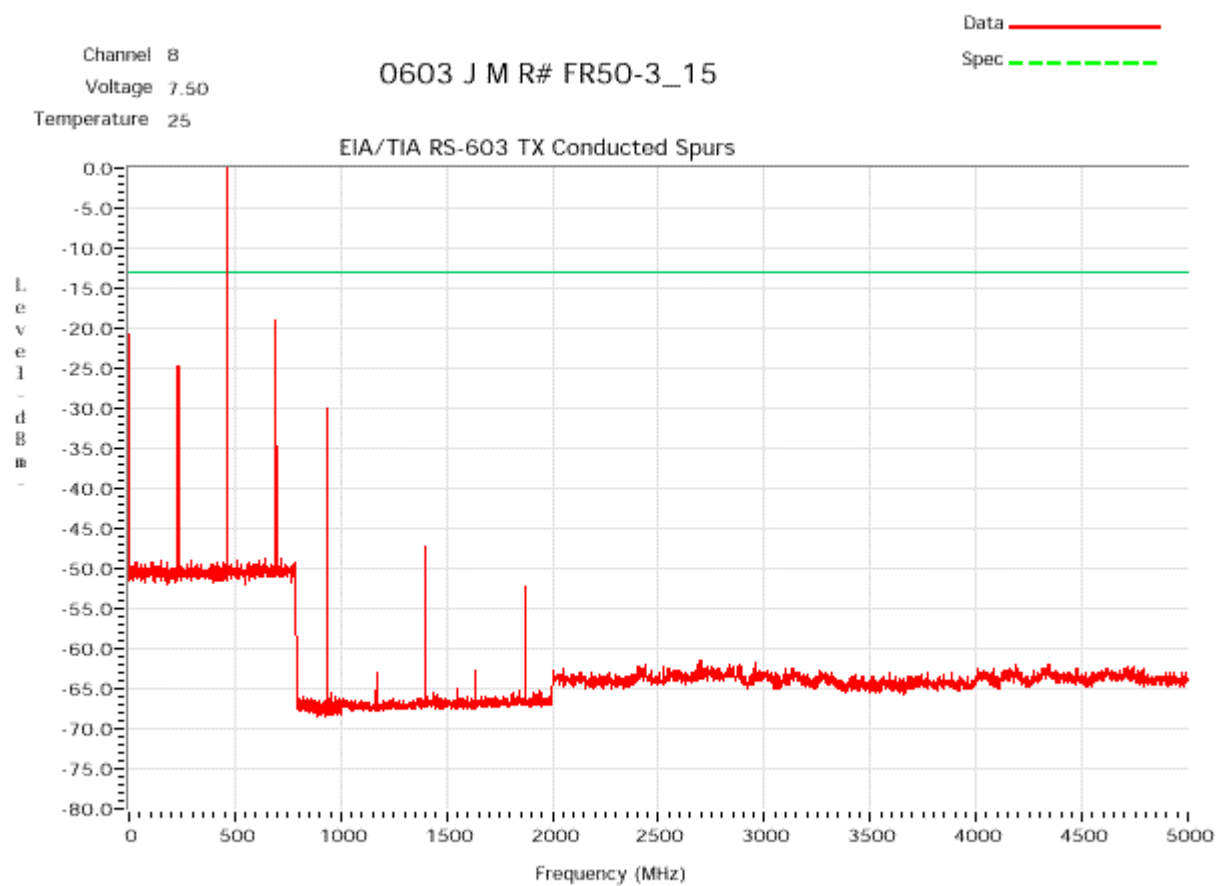
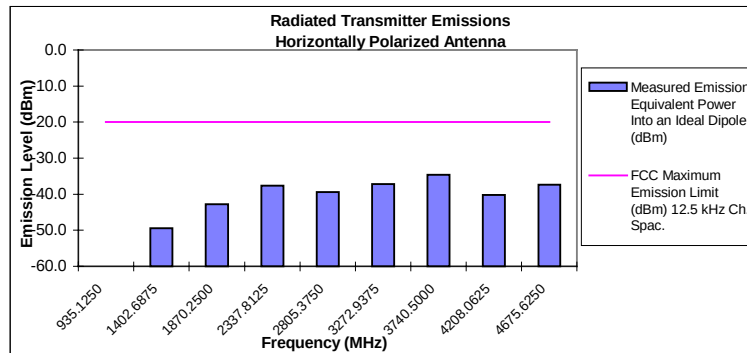


EXHIBIT 6F-2

**Transmitter Radiated Spurious Emissions: FR50**  
**467.5625 MHz - 0.5 W - 12.5 kHz CH. Spacing**

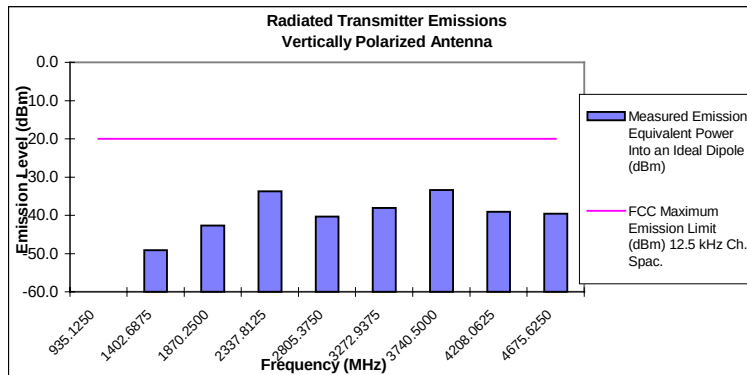
Horizontally Polarized

|         | Frequency (MHz) | FCC Maximum Emission Limit (dBm) 12.5 kHz Ch. Spac. | Measured Emission Equivalent Power Into an Ideal Dipole (dBm) |
|---------|-----------------|-----------------------------------------------------|---------------------------------------------------------------|
| 2X FUND | 935.1250        | -20                                                 | *                                                             |
| 3X FUND | 1402.6875       | -20                                                 | -49.4                                                         |
| 4X FUND | 1870.2500       | -20                                                 | -42.7                                                         |
| 5X FUND | 2337.8125       | -20                                                 | -37.7                                                         |
| 6X FUND | 2805.3750       | -20                                                 | -39.4                                                         |
| 7X FUND | 3272.9375       | -20                                                 | -37.3                                                         |
| 8X FUND | 3740.5000       | -20                                                 | -34.6                                                         |
| 9X FUND | 4208.0625       | -20                                                 | -40.2                                                         |
| 10XFUND | 4675.6250       | -20                                                 | -37.4                                                         |



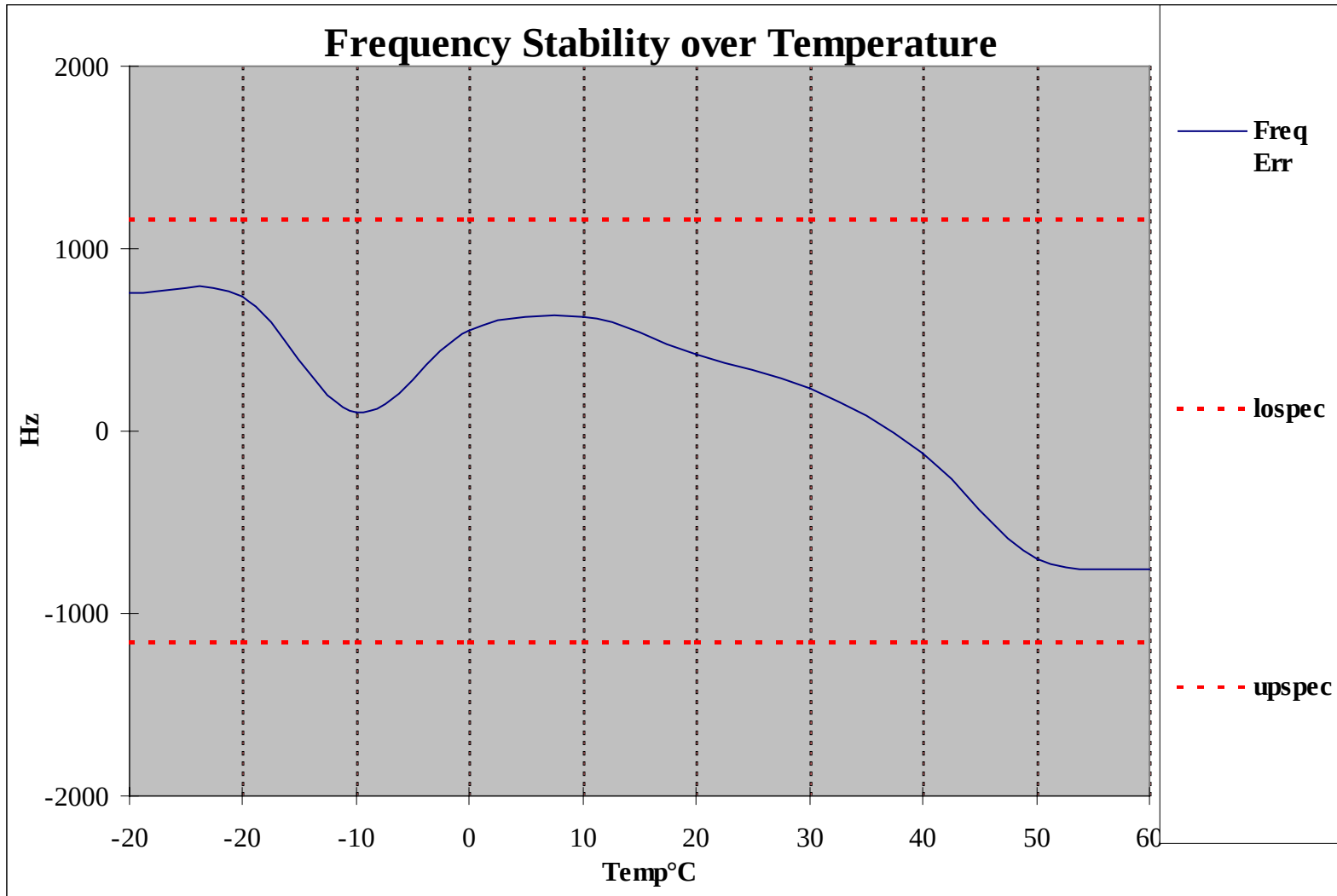
Vertically polarized

|         | Frequency (MHz) | FCC Maximum Emission Limit (dBm) 12.5 kHz Ch. Spac. | Measured Emission Equivalent Power Into an Ideal Dipole (dBm) |
|---------|-----------------|-----------------------------------------------------|---------------------------------------------------------------|
| 2X FUND | 935.1250        | -20                                                 | *                                                             |
| 3X FUND | 1402.6875       | -20                                                 | -49.1                                                         |
| 4X FUND | 1870.2500       | -20                                                 | -42.7                                                         |
| 5X FUND | 2337.8125       | -20                                                 | -33.7                                                         |
| 6X FUND | 2805.3750       | -20                                                 | -40.3                                                         |
| 7X FUND | 3272.9375       | -20                                                 | -38.1                                                         |
| 8X FUND | 3740.5000       | -20                                                 | -33.4                                                         |
| 9X FUND | 4208.0625       | -20                                                 | -39.1                                                         |
| 10XFUND | 4675.6250       | -20                                                 | -39.6                                                         |



\* Indicates the spurious emission was less than -60dBm or could not be detected due to noise limitations or ambients.

**Exhibit 6G**



Radio resets at 3.3 Volts.

EXHIBIT 6H-1

EXHIBIT 6H-2

