

**Applicant: Motorola Inc**  
**FCC ID: AZ489FT4833**

**TEST REPORT**

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**RF POWER OUTPUT DATA**

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

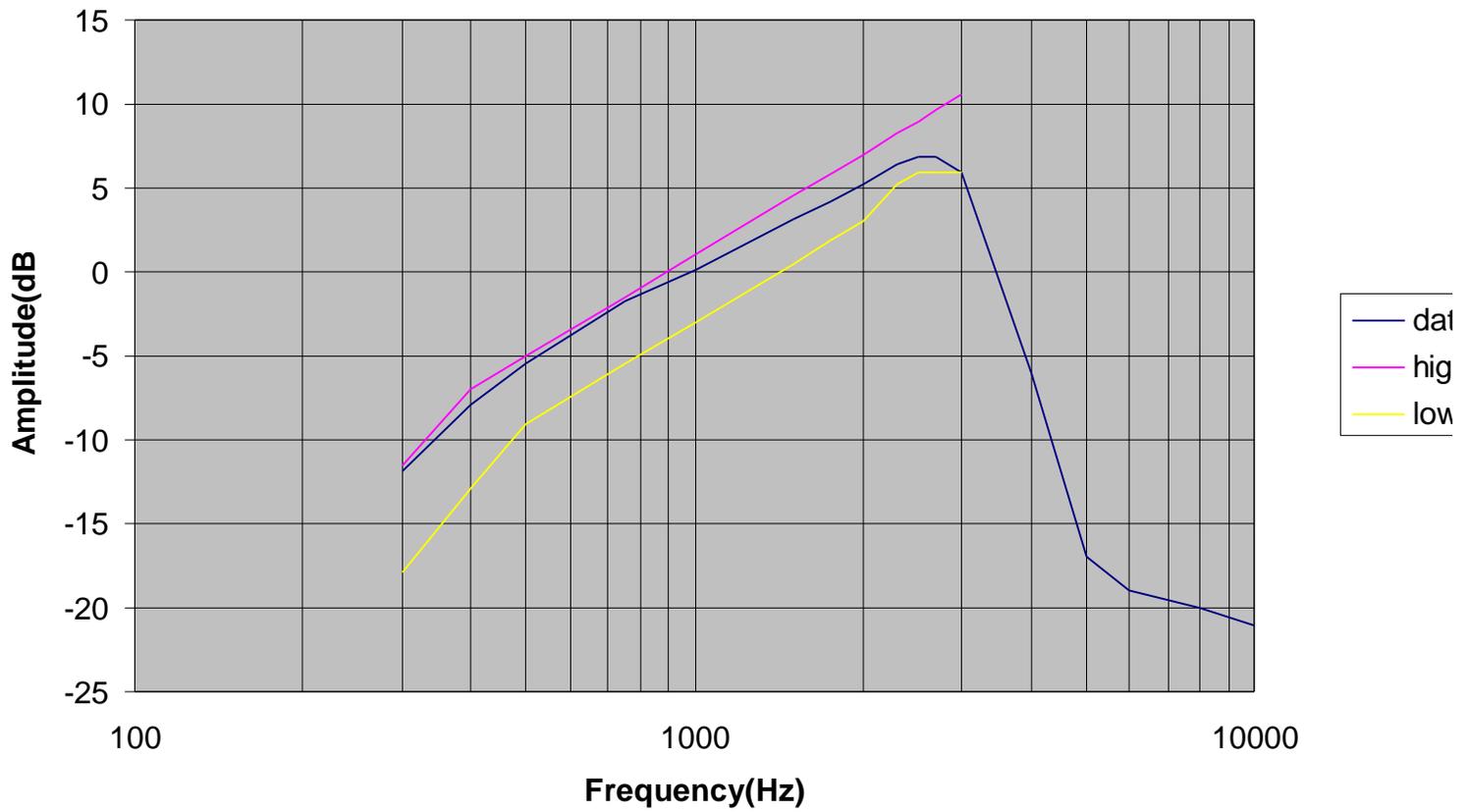
1 Watt

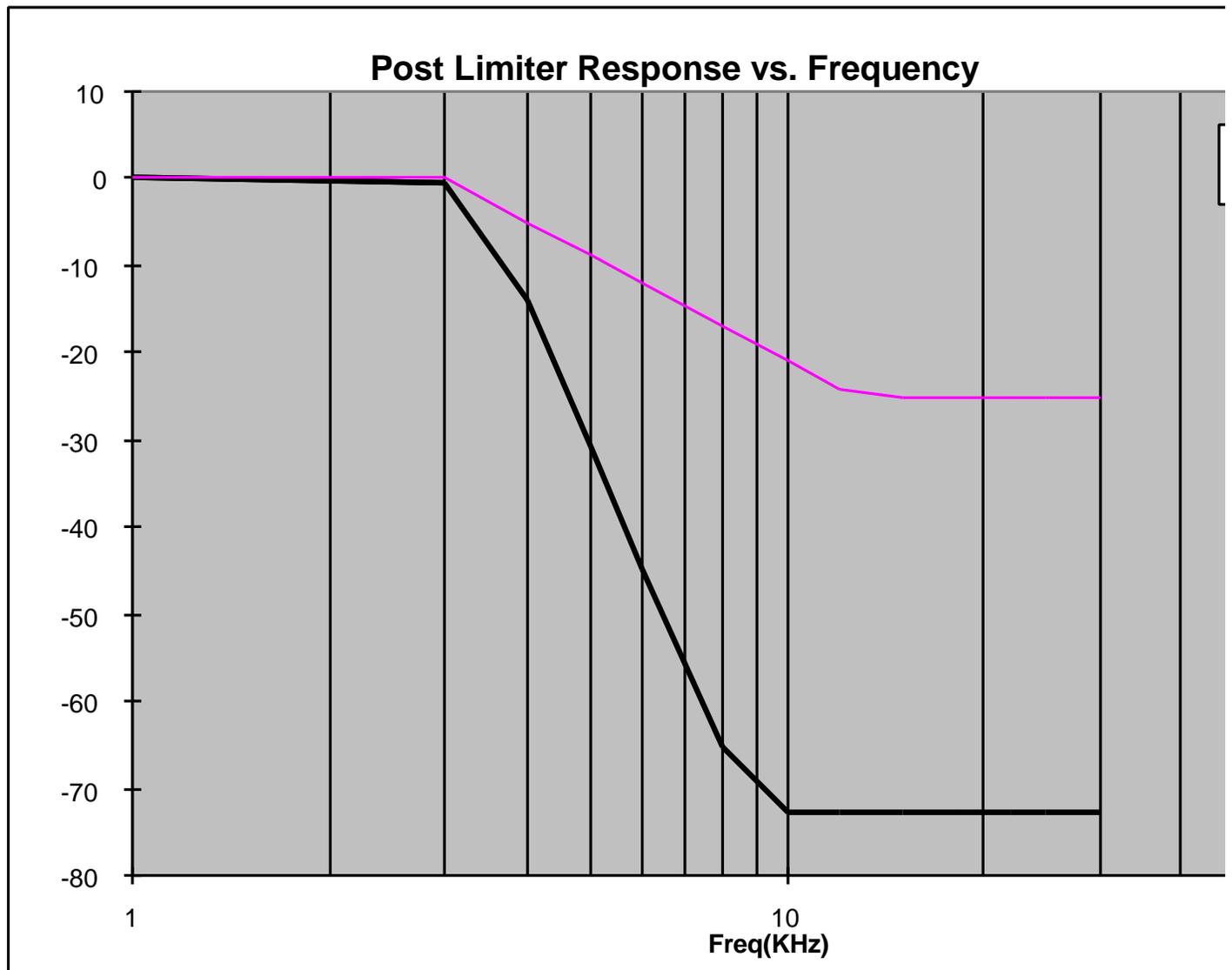
Measured RF output	1.06	Watts
Normal DC Voltage	3.60	Volts
Normal DC Current	550	mA
Primary Supply Voltage	3.60	Volts

**EXHIBIT: 6A**

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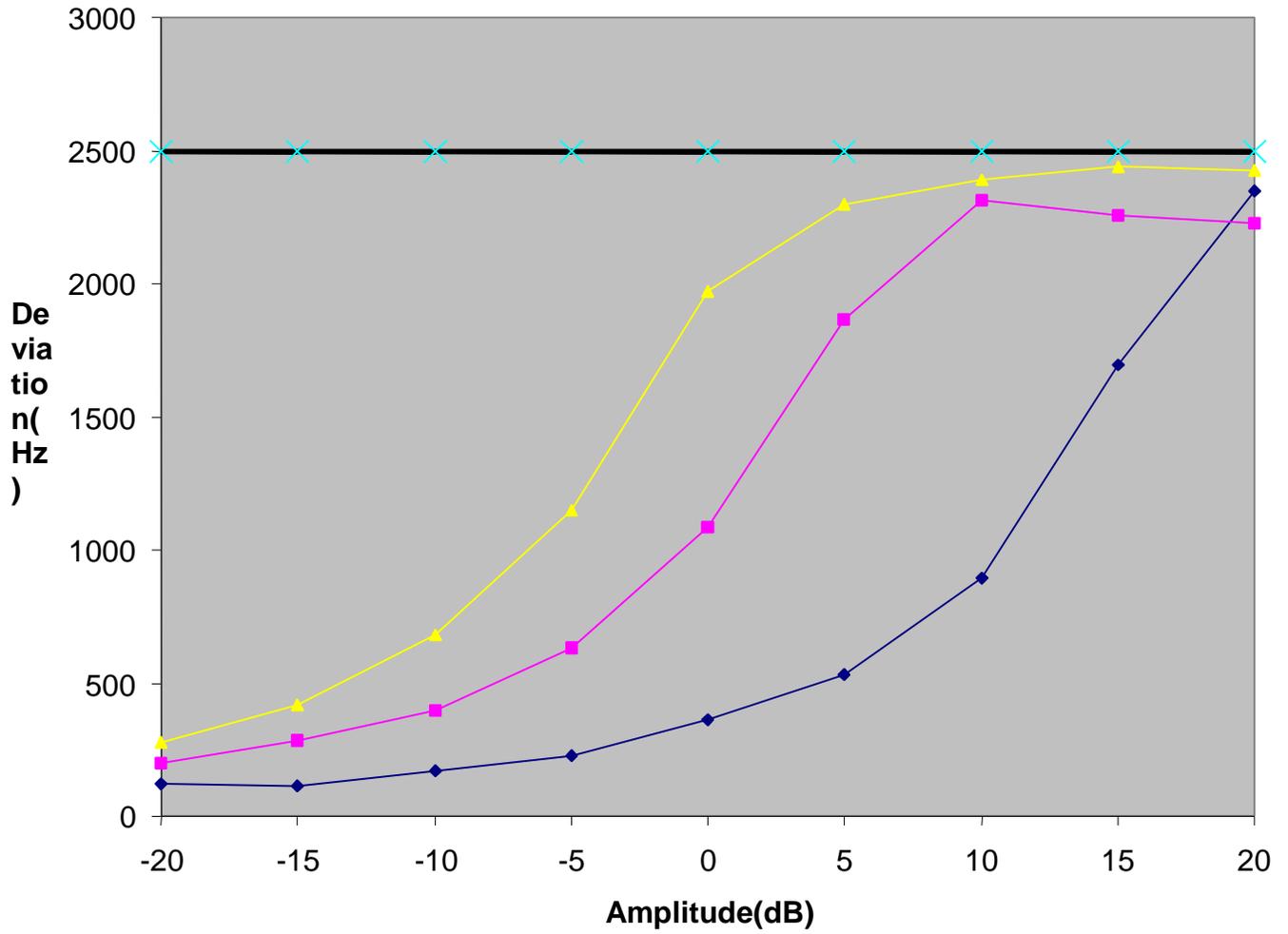
# Audio Frequency Response





**From 10 kHz to 30 kHz was in the noise floor of instrument.**

## Modulation Limiting Vs. Amplitude



## OCCUPIED BANDWIDTH DATA

12.5 kHz Channel Spacing

### EXHIBIT 6E-1

2500 Hz Audio Modulation  
Emission Type: 11K0F3E  
Horizontal: 5 kHz/Div.  
Vertical: 10 dB/Div.  
Carrier Ref: 0 dB  
Specification Mask D, 90.210

### EXHIBIT 6E-2

2500 Hz & 77 Hz Tone "PL" Modulation  
Emission Type: 11K0F3E  
Horizontal: 5 kHz/Div.  
Vertical: 10 dB/Div.  
Carrier Ref: 0 dB  
Specification Mask D, 90.210

### CARSON'S RULE

#### **11K0F3E:**

$$BW = 2(M + D)$$

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

$$BW = 2 (5.5)$$

$$BW = 11 \text{ kHz}$$

#### **16K0F3E:**

$$BW = 2(3+5) = 16 \text{ kHz}$$

**EXHIBIT**

FCC ID: A21

06:51:01 MAR 04, 1999

REF 9.0 dBm

AT 20 dB

MKR Δ -12.5 kHz

-77.91 dB

PEAK  
LOG  
10  
dB/

MARKER Δ  
-12.5 kHz  
-77.91 dB

VA SB  
SC FC  
CORR

CENTER 464.5493 MHz

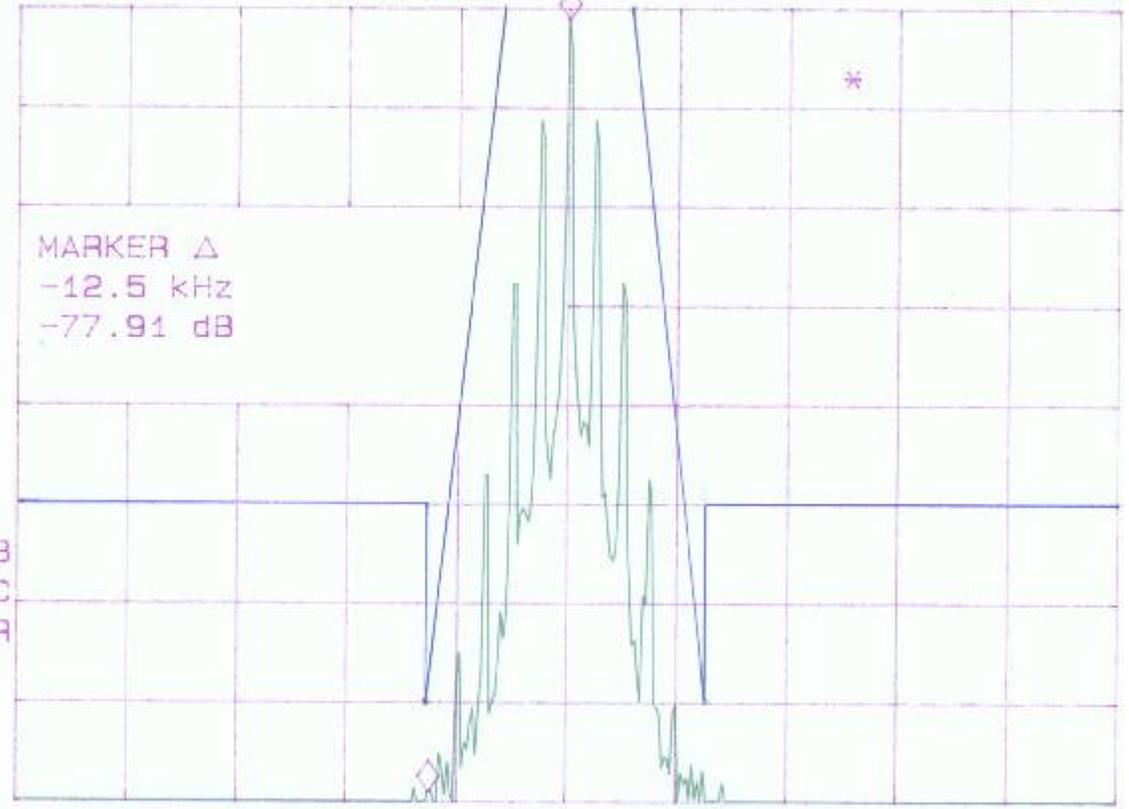
#RES BW 100 Hz

#VBW 3 kHz

SPAN 100.0 kHz

SWP 30.0 sec

EXN10



Fcc12102

06:46:28 MAR 04, 1999

~~17~~

MKR  $\Delta$  12.5 kHz

REF 6.0 dBm

AT 20 dB

-77.44 dB

PEAK  
LOG  
10  
dB/

MARKER  $\Delta$   
12.5 kHz  
-77.44 dB

VA SB  
SC FC  
CORR

CENTER 464.5505 MHz

#RES BW 100 Hz

#VBW 3 kHz

SPAN 100.0 kHz

SWP 30.0 sec

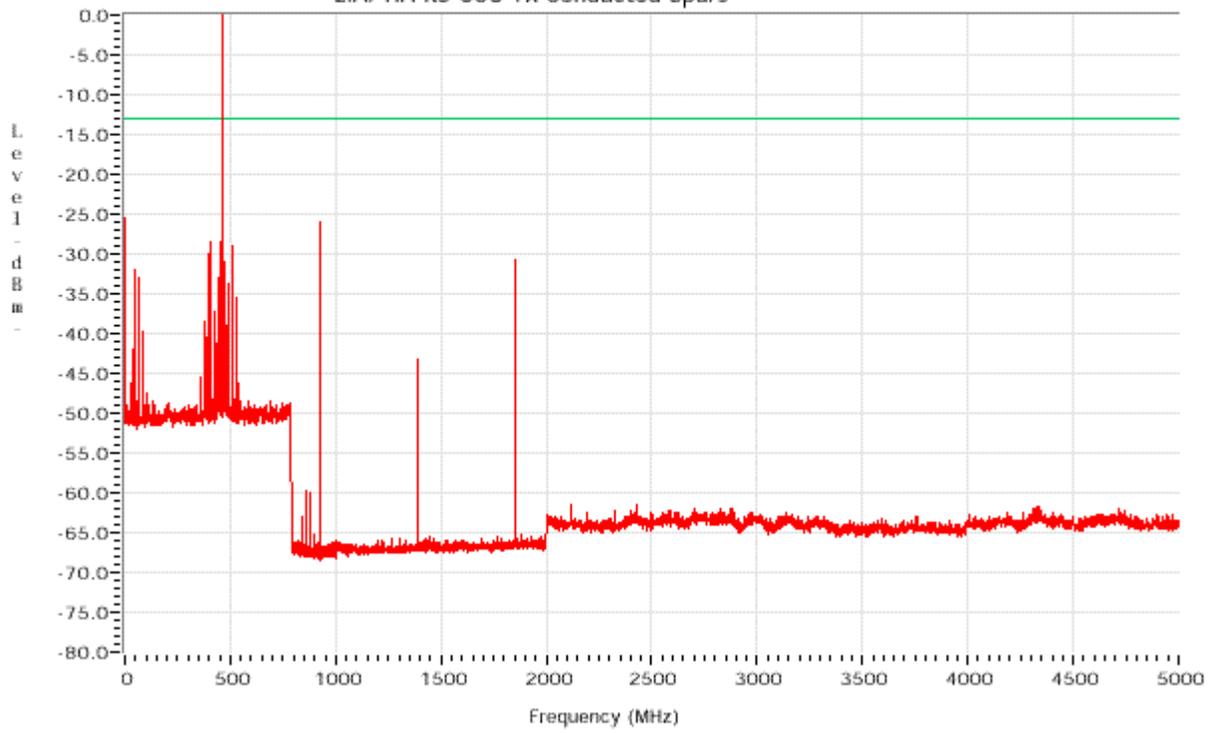
EXHIBIT 66

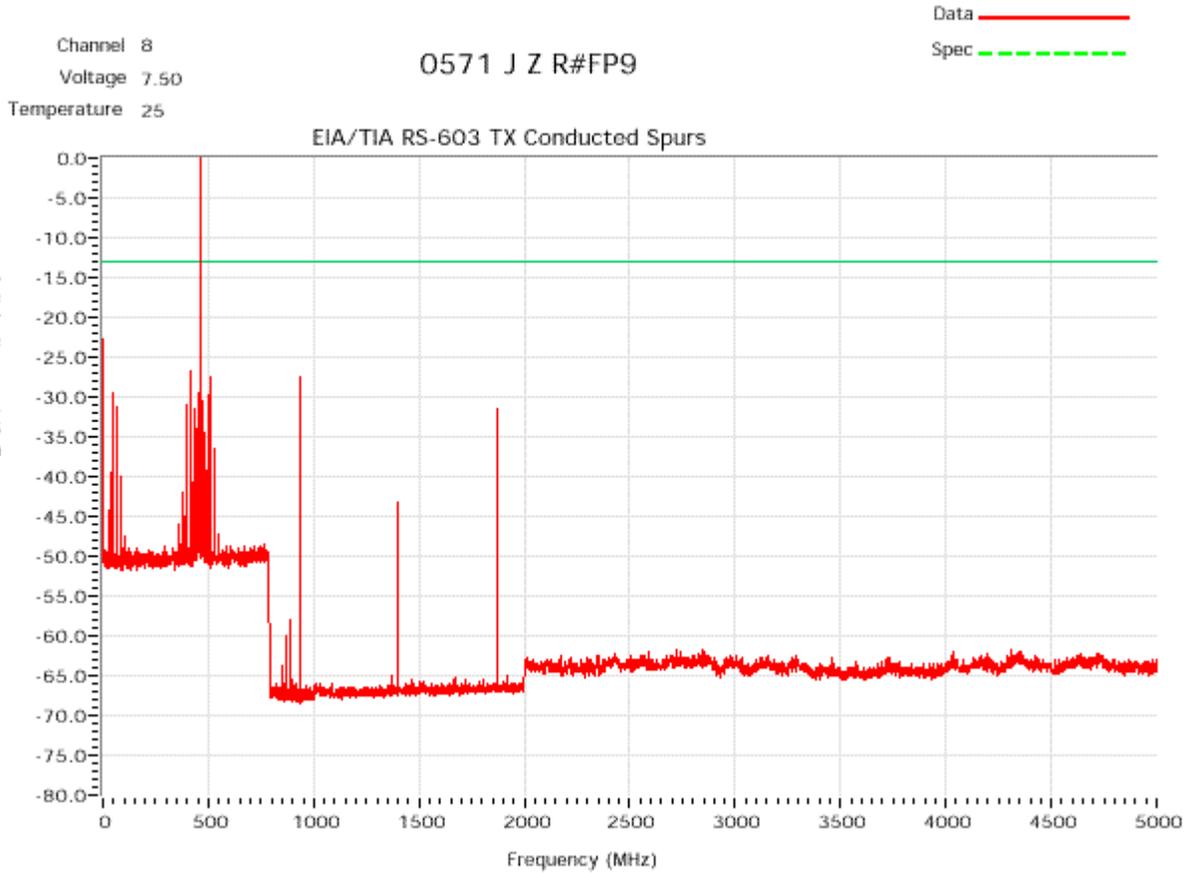
Channel 1  
Voltage 7.50  
Temperature 25

0571 J Z R#FP9

Data   
Spec 

EIA/TIA RS-603 TX Conducted Spurs



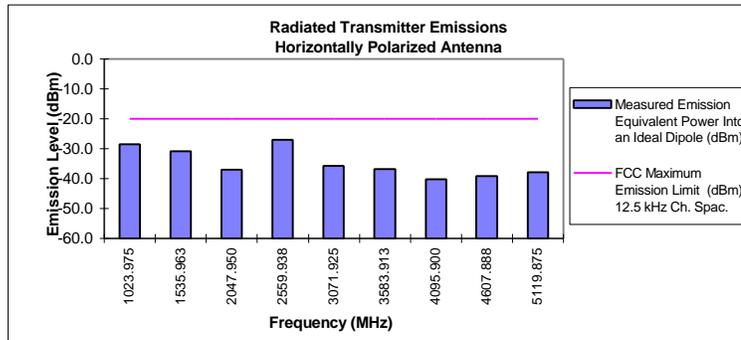


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### Transmitter Radiated Spurious Emissions : FP9 Radio 464.55 MHz - 12.5 kHz CH. Spacing

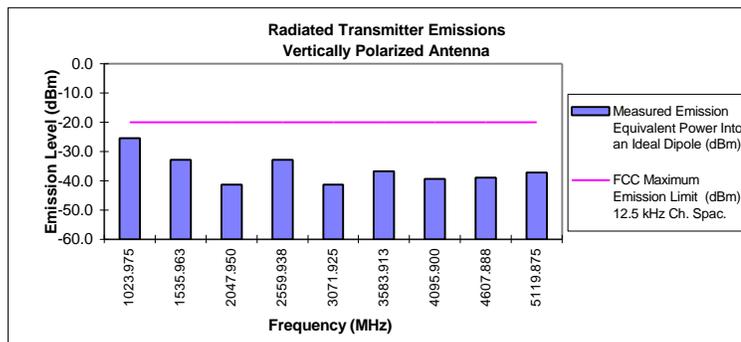
Horizontally Polarized

	Frequency (MHz)	FCC Maximum Emission Limit (dBm) 12.5 kHz Ch. Spac.	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
2X FUND	1023.975	-20	-28.6
3X FUND	1535.963	-20	-30.9
4X FUND	2047.950	-20	-37.0
5X FUND	2559.938	-20	-26.9
6X FUND	3071.925	-20	-35.7
7X FUND	3583.913	-20	-37.0
8X FUND	4095.900	-20	-40.3
9X FUND	4607.888	-20	-39.2
10XFUND	5119.875	-20	-38.0



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	1023.975	-20	-25.4
3X FUND	1535.963	-20	-32.9
4X FUND	2047.950	-20	-41.4
5X FUND	2559.938	-20	-32.8
6X FUND	3071.925	-20	-41.2
7X FUND	3583.913	-20	-36.8
8X FUND	4095.900	-20	-39.4
9X FUND	4607.888	-20	-39.0
10XFUND	5119.875	-20	-37.3



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

6G-1

