



===== *WIRELESS PRODUCTS*

MPD TECHNOLOGIES, INC.

a subsidiary of Microwave Power Devices, Inc.

49 WIRELESS BOULEVARD

HAUPPAUGE, NEW YORK 11788-3935

(516) 231-1400 Fax: (516) 231-8081

July 10, 2001

Mr. Frank Coperich
Federal Communications Commission
Office of Engineering & Technology
7435 Oakland Mills Road
Gate A
Columbia MD 21046

Dear Mr. Frank Coperich:

This enclosure contains the two-tone data for CDMA and TDMA that is pending under 731 Confirmation Number EA89075. As per our discussion under Correspondence ID 4035, the two-tone data criteria was to provide two-tones that would produce 3rd order IMD's that would fall out of the 869-894 MHz transmit cellular band and the other 3rd order IMD's that would be in the 869-894 MHz transmit band. The data provided has both input and output plots for CDMA & TDMA. It is our understanding that this is the data needed to complete the type approval pending on the amplifier model FFPA8689-35.

If there are any other questions, please feel free to contact us.

Best Regards

Patrick K. Madigan
Application Engineer
Wireless Products



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Model FFPA 8689-35

2 Tone CDMA Input

17: 47: 40 22 OCT 1998



REF -19.0 dBm

#AT 20 dB

MKR 875.000 MHz

-84.00 dBm

REF LVL

SMPL

LOG

10

dB/

ATTEN
AUTO MAN

REF LEVEL
-19.0 dBm

SCALE
LOG LIN

AVG

10

WA SB

SC FC

CORR

More
1 of 3

CENTER 875.000 MHz

#RES BW 30 kHz

#VBW 30 kHz

SPAN 40.000 MHz

SWP 133 msec



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2 Tone CDMA Output

17:35:07 22 OCT 1998

/7/

REF -23.0 dBm

#AT 20 dB

MKR 875.00 MHz

-85.65 dBm

SMPL

LOG

10

dB/

MARKER

875.00 MHz

-85.65 dBm

AVG

10

WA SB

SC FC

CORR

MARKER
NORMAL

MARKER
△

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 2

CENTER 875.00 MHz

#RES BW 30 kHz

#VBW 30 kHz

SPAN 40.00 MHz

SWP 133 msec



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Model FFPA 8689-35

2 Tone TDMA Input

17:54:07 22 OCT 1998

hp

REF -16.0 dBm

#AT 20 dB

MKR 875.00 MHz

-86.99 dBm

REF LVL

SMPL
LOG
10
dB/

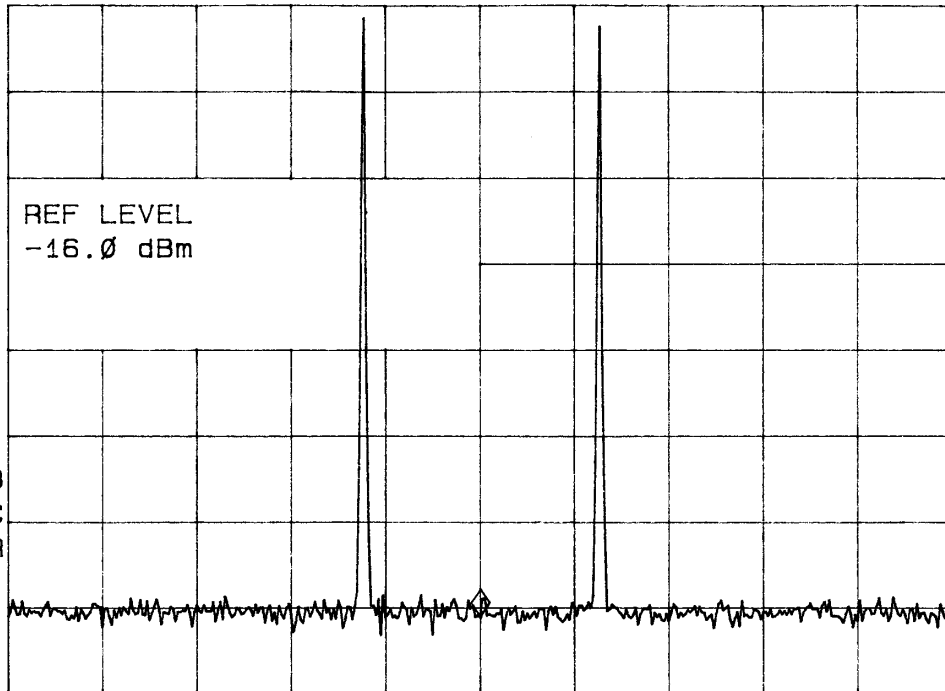
REF LEVEL
-16.0 dBm

ATTEN
AUTO MAN

SCALE
LOG LIN

AVG
10

WA SB
SC FC
CORR



More
1 of 3

CENTER 875.00 MHz

#RES BW 30 kHz

SPAN 40.00 MHz

#VBW 30 kHz

SWP 133 msec



Model FFPA 8689-35

2 Tone TDMA Output

18:18:18 22 OCT 1998

~~HP~~

REF -22.0 dBm

#AT 20 dB

MKR 875.00 MHz

-88.97 dBm

REF LVL

SMPL

LOG

10

dB/

ATTEN
AUTO MAN

REF LEVEL

-22.0 dBm

SCALE
LOG LIN

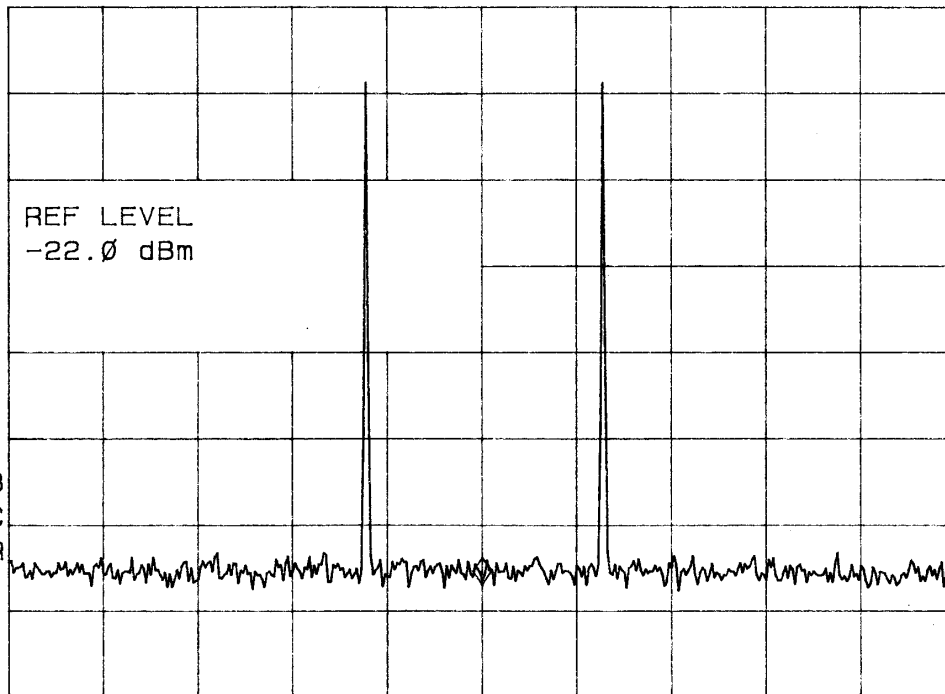
AVG

10

WA SB

SC FC

CORR



More
1 of 3

CENTER 875.00 MHz

#RES BW 30 kHz

#VBW 30 kHz

SPAN 40.00 MHz

SWP 133 msec