

NV8300 series Transmitter FCC Certification Application

Class 2 Permissive Change to Allow the Use of Alternate Channel “Mask” Filter

TECHNICAL SPECIFICATIONS

AND

MEASUREMENT REPORT

FOR

PROPOSED ALTERNATE

MYAT 12-POLE CHANNEL “MASK” FILTER

Manufacturer: Myat, Inc.
Filter Division
1000 Riverside Street
Portland, ME 04103

Catalog Number: PJ000589-1





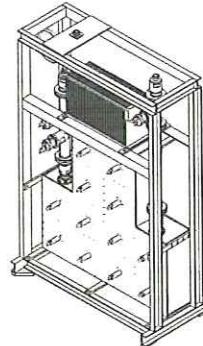
Broadcast Transmission Line Systems, Filters & Components

FACTORY TEST DATA

(re-tuned after power tests were conducted in Germany MAR08)

12 SECTION "STRINGENT" BANDPASS FILTER

CH 55



**MediaFLO USA, Inc.
P.O. 2100000663 2.1**

MYAT ORDER: 218041-02-02

MARCH 25, 2008

**MYAT REPORT NO. 2521
(old Report 2434)**

Filter Division:
1000 Riverside Street
Portland, ME 04103
Tel: 207-878-7807
Fax: 207-878-7806

www.myat.com

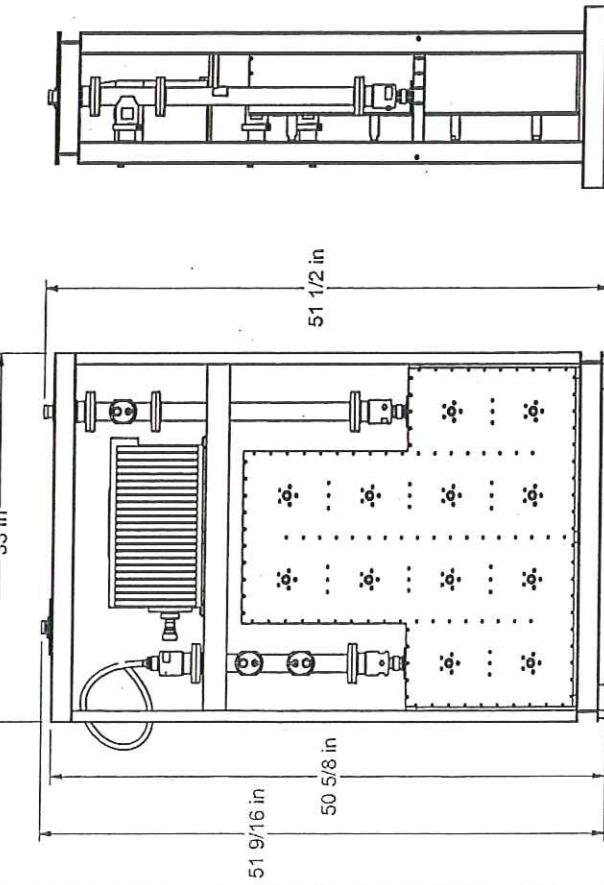
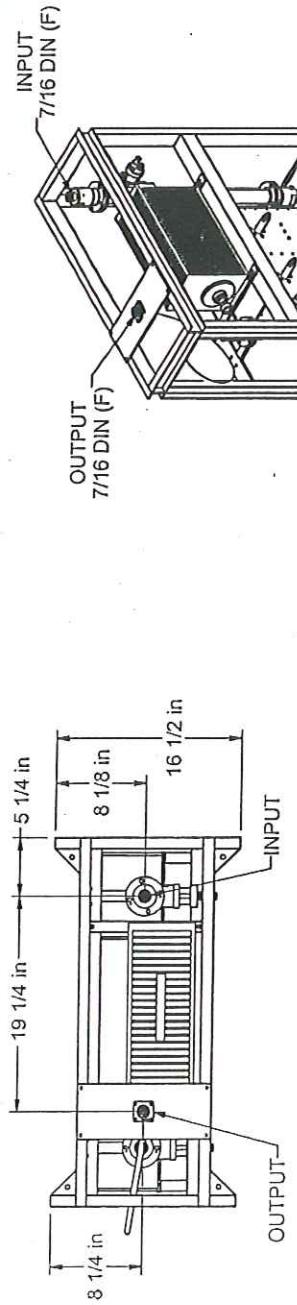
Corporate Office:
380 Chestnut Street
PO Box 425
Norwood, NJ 07648-0425
Tel: 201-767-5380
Fax: 201-767-4147

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<u>FIGURE</u>	<u>DESCRIPTION</u>
A	ASSEMBLY DRAWING
1	VSWR & RETURN LOSS
2	REJECTION & INSERTION LOSS
3	GROUP DELAY
4	HARMONICS
5	COUPLER MEASUREMENTS

CATALOG : #PJ000589-1

B



NOTES:

1. LOAD TO BE SUPPLIED AND INSTALLED BY TBM.
BIRD LOAD 8251 (w/ TYPE-N (M) CONNECTOR P/N 4240-063)
2. 12 SECTION FILTER SUPPLIED BY QUALCOMM.

Specification :

Insertion Loss	<.85dB @ f_0
Loss Variation	<3dB +/- 2.7MHz
VSWR	<1.2
Delay Variation	<2200ns +/- 2.71MHz
Rejection	>35dB fo +/- 3MHz to fo +/- 3.1MHz
	>52dB fo +/- 3.1MHz to fo +/- 4MHz
	>57dB fo +/- 4MHz to fo +/- 10MHz
Input Coupler	Bi-Directional, single
Coupling	-36dB +/- .5dB
Directivity	-20dB min.
Output Coupler	Bi-Directional, dual
Coupling	-36dB +/- .5dB, each coupler
Directivity	-20dB min.
Harmonic Suppression	
2nd	>50dB (1396-1492MHz)
3rd	>50dB (2094-2238MHz)
Power	800W
Ambient Temperature	0 deg. - 50 deg. C

A

MITAB INC 380 CHESTNUT ST. NORWOOD, N.J.	CAGE IDENT NO.	DRAWN	BLA/CASSE	DATE
	28035	CHECKED	DS	1/26/2007
	ENGINEER	DS	DATE	1/26/2007
	SHEET	1 OF	SALES DRAWING NO.	REVISION
	B	1	PJ000589-1	1
	SCALE		COMPUTER FILE NAME	
			PJ000589-1 Rev.1.idw	

1

2

4

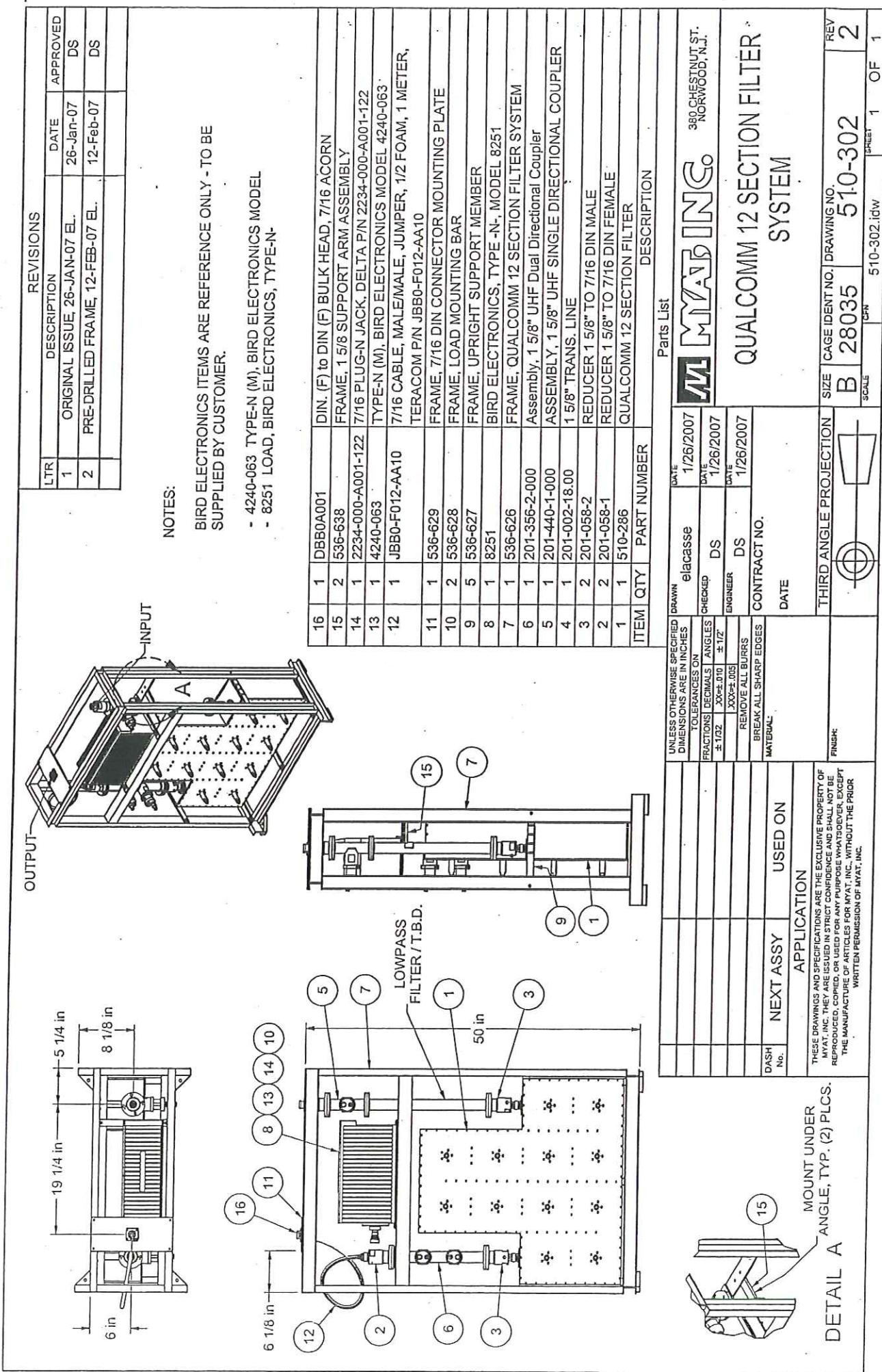
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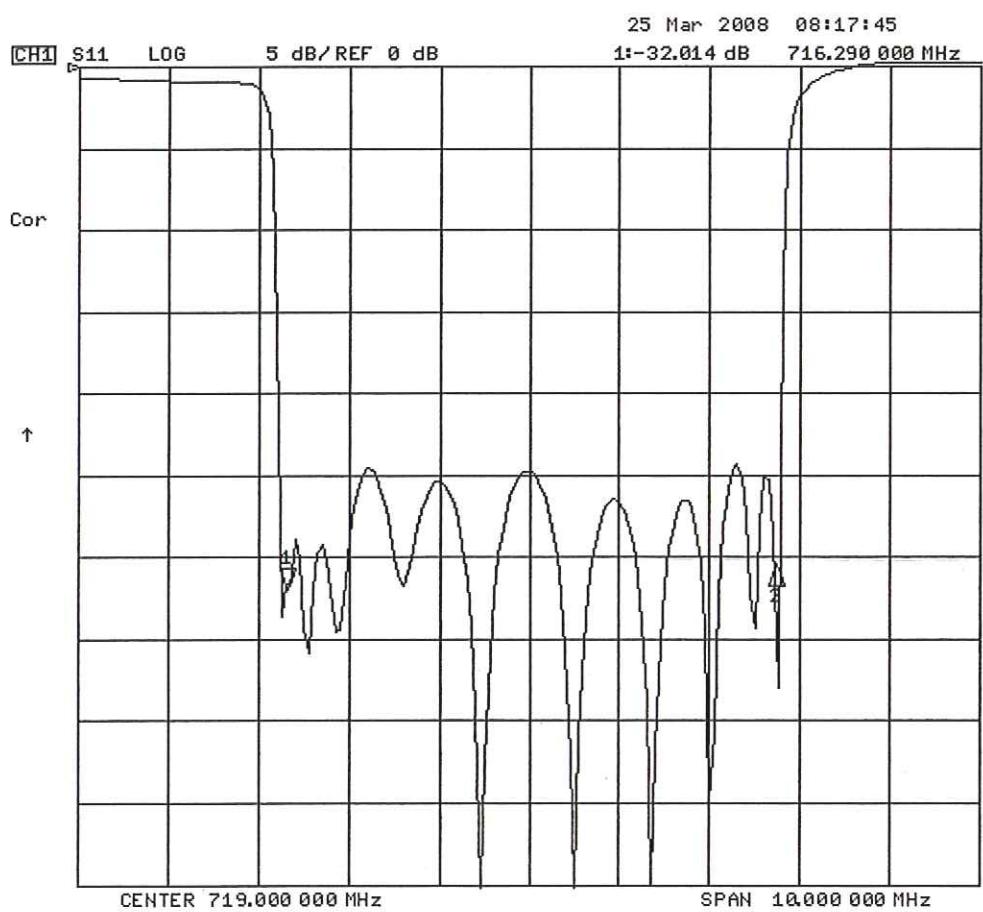
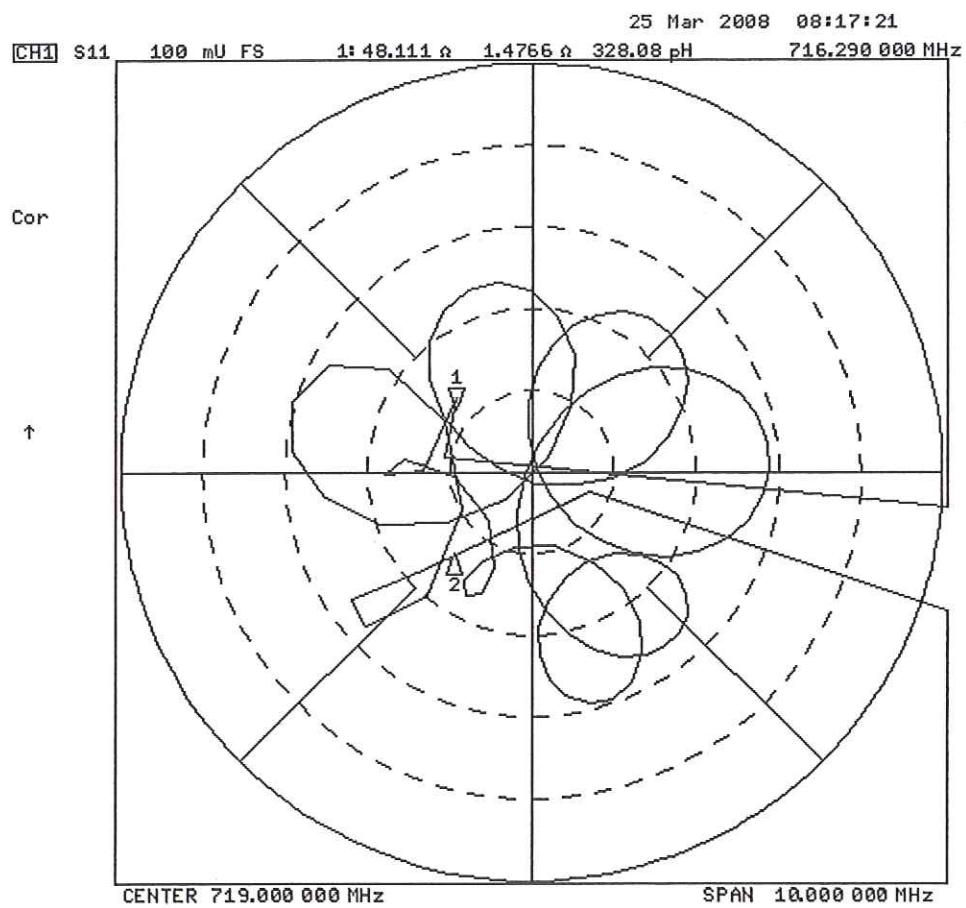
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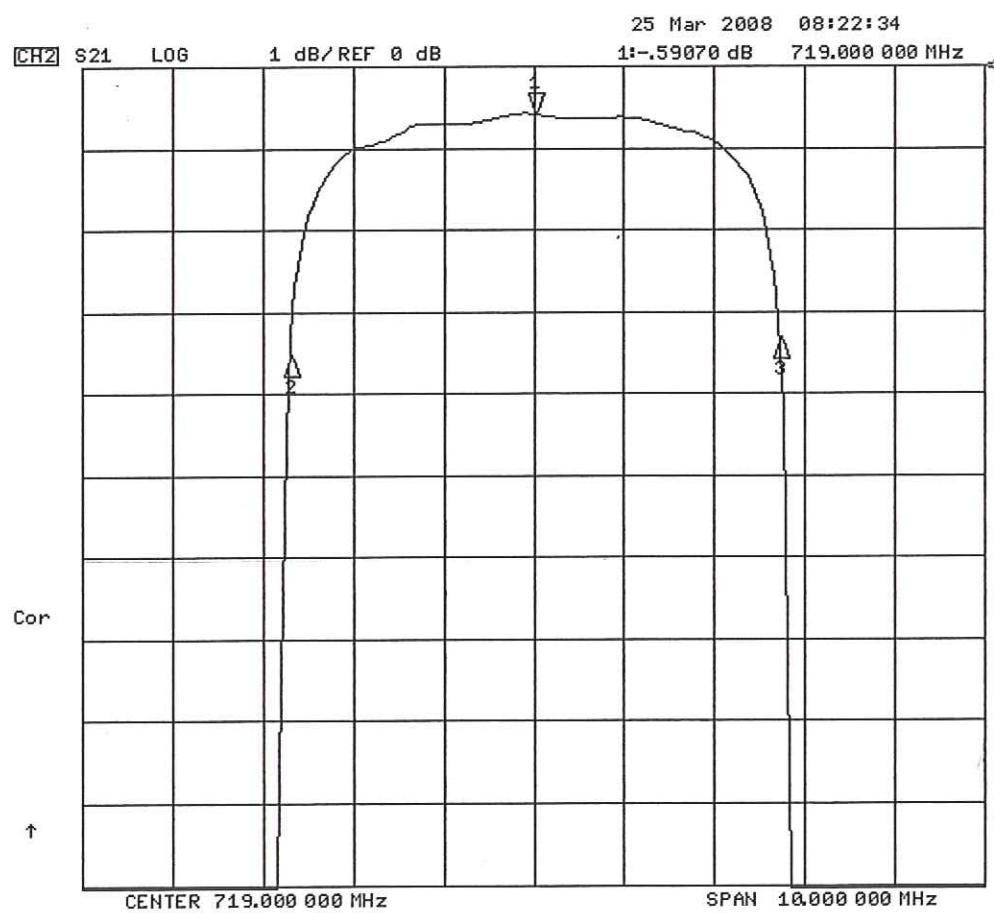
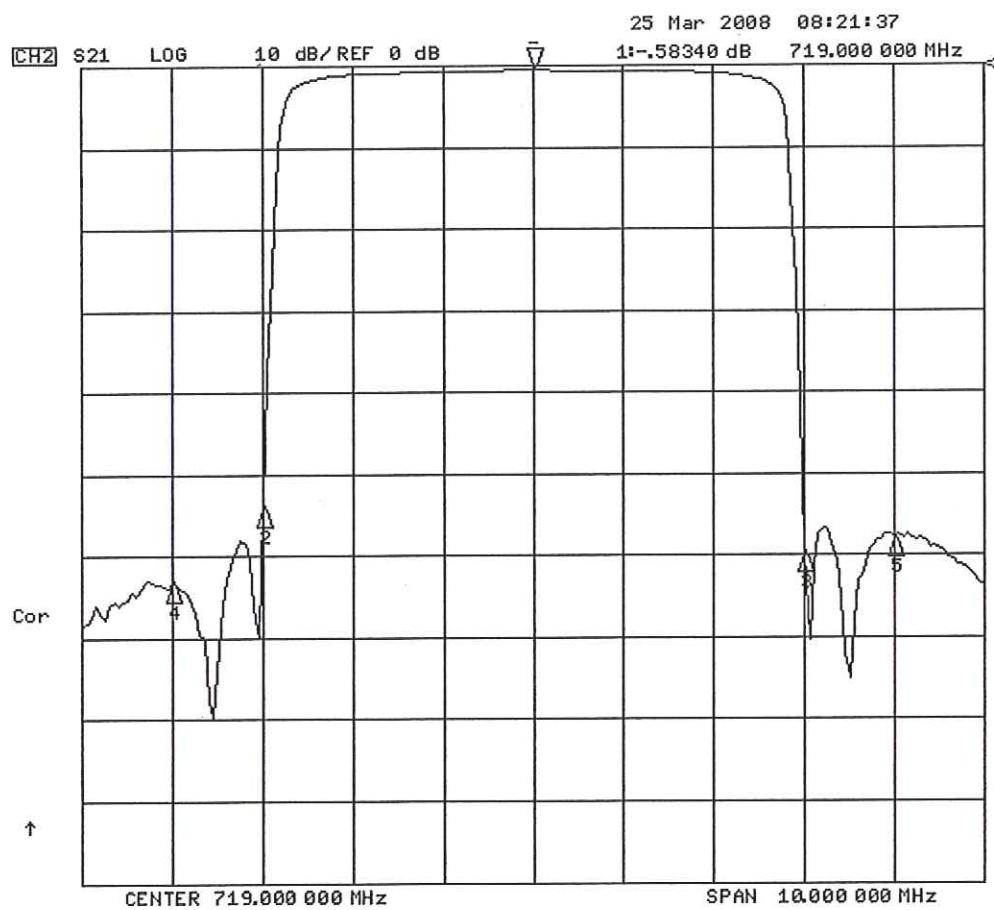
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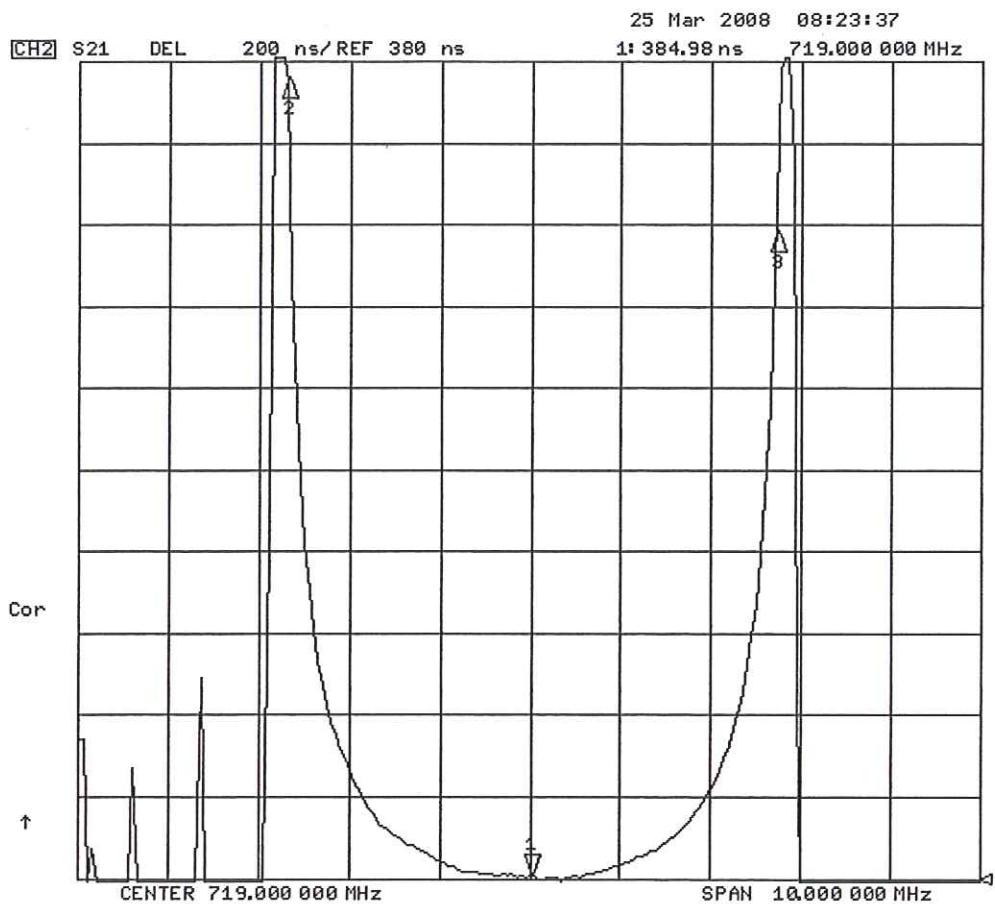
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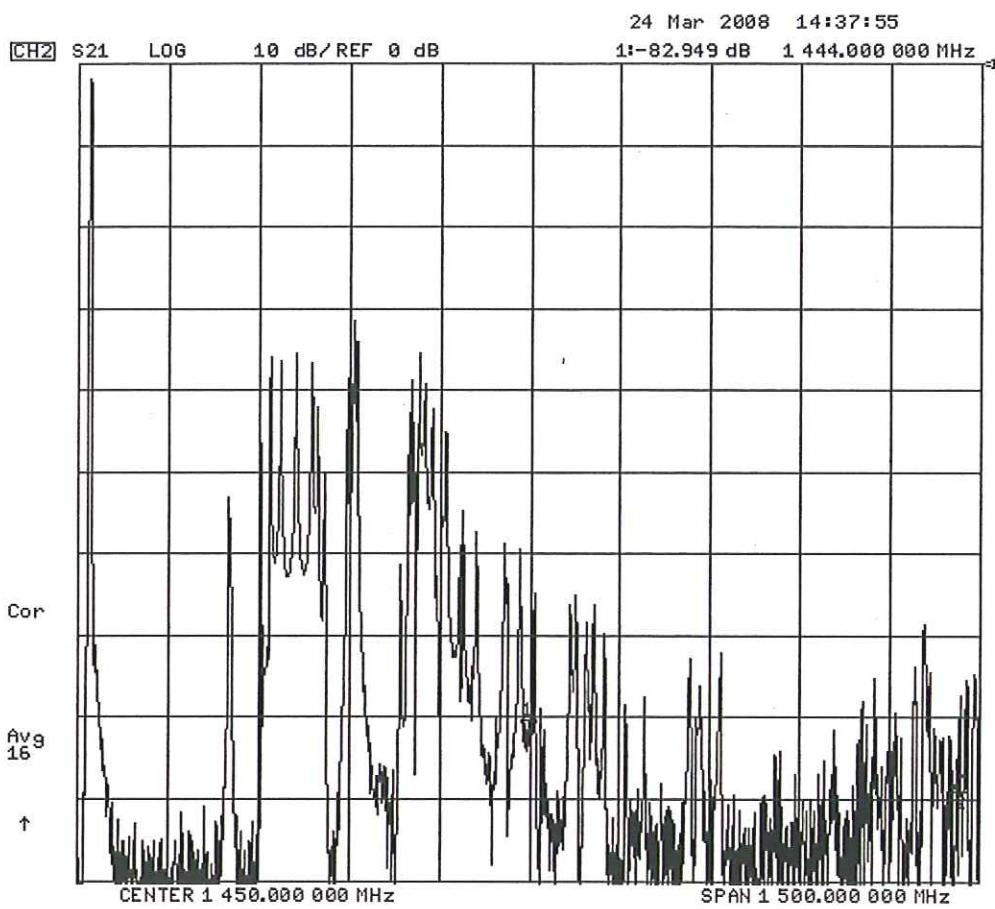
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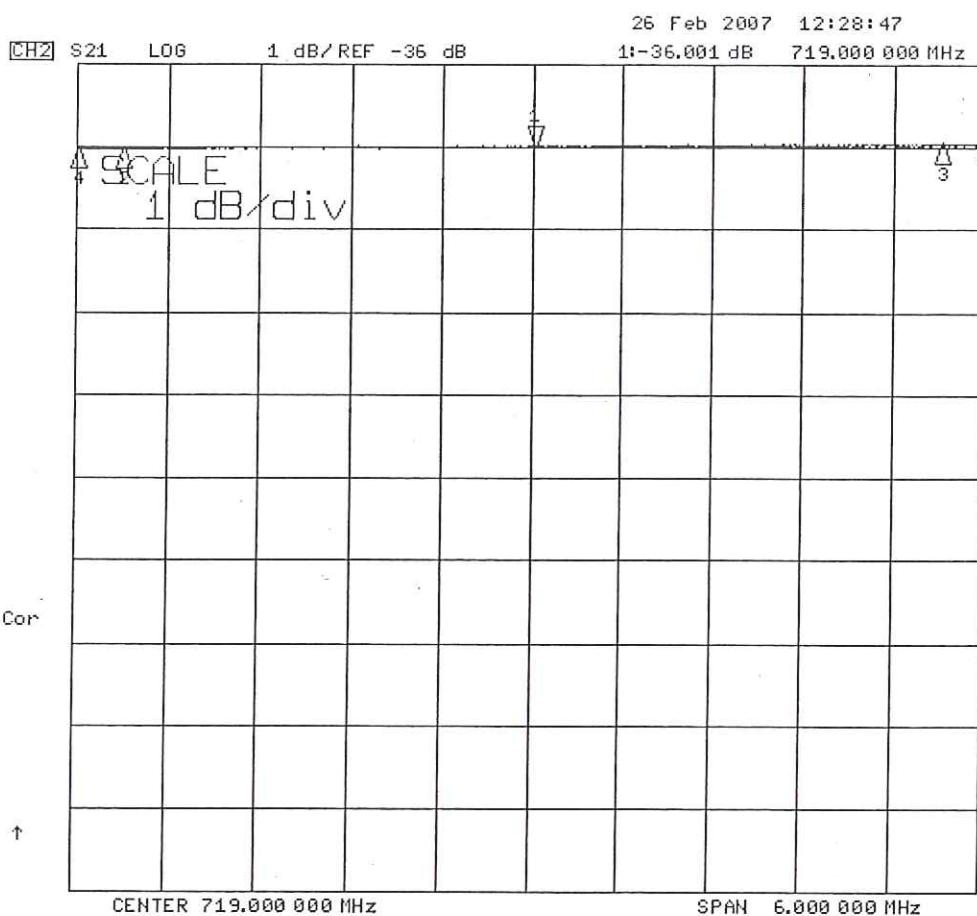








14419



MEDINFLO 12 SECTION
UNITIZED FILTER

DC1
(FWD)

CH2 Markers

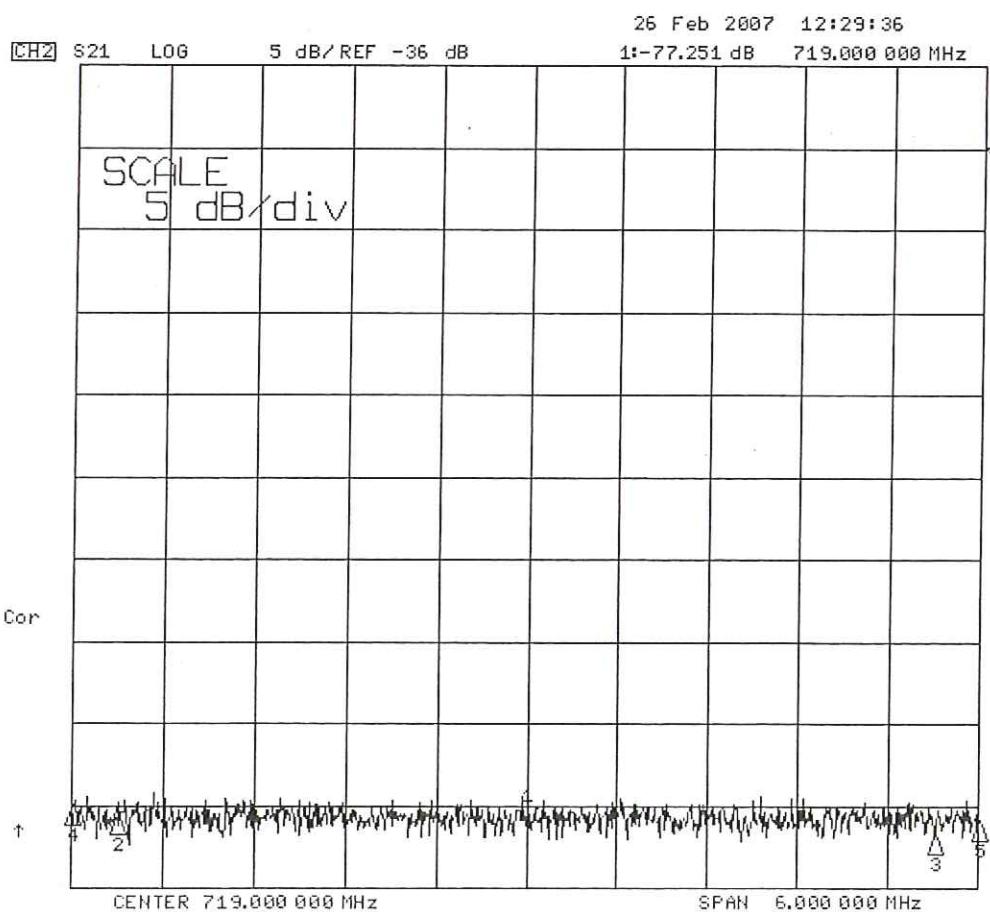
2:-36.034 dB
716.290 MHz

3:-35.966 dB
721.710 MHz

4:-36.032 dB
716.000 MHz

5:-35.973 dB
722.000 MHz

COUPLING



CH2 Markers

2:-76.567 dB
716.290 MHz

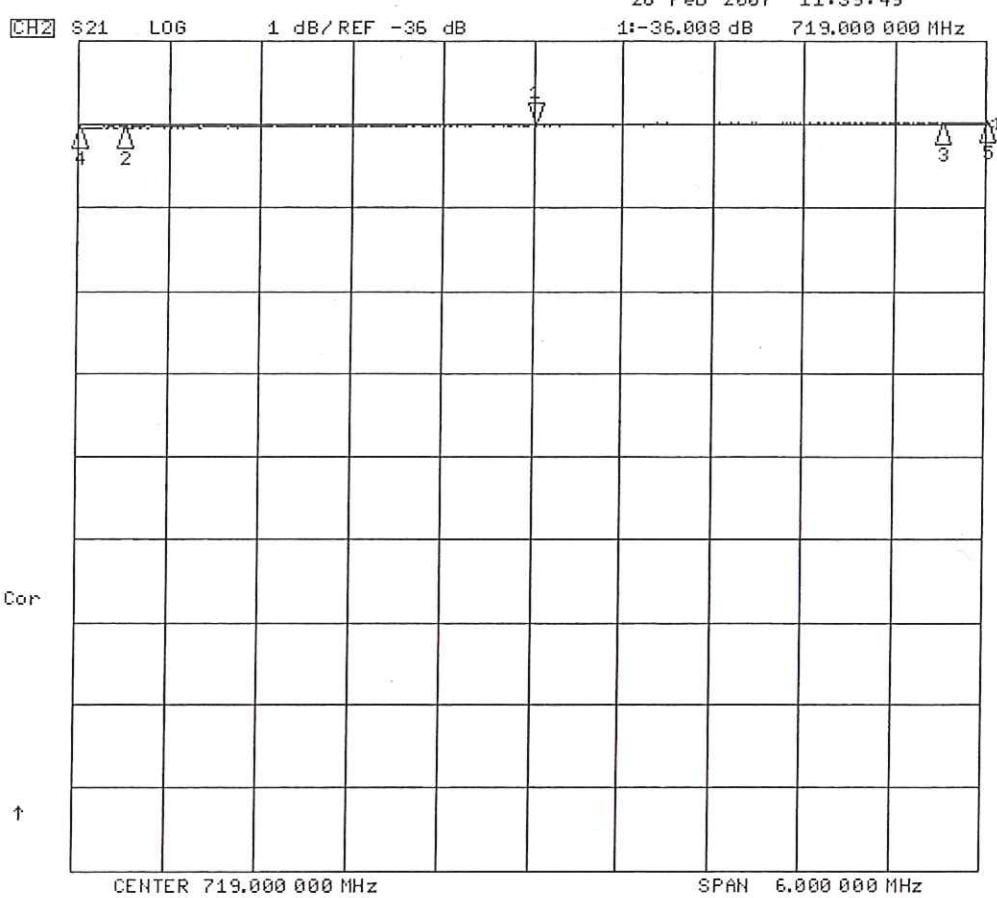
3:-77.765 dB
721.710 MHz

4:-76.032 dB
716.000 MHz

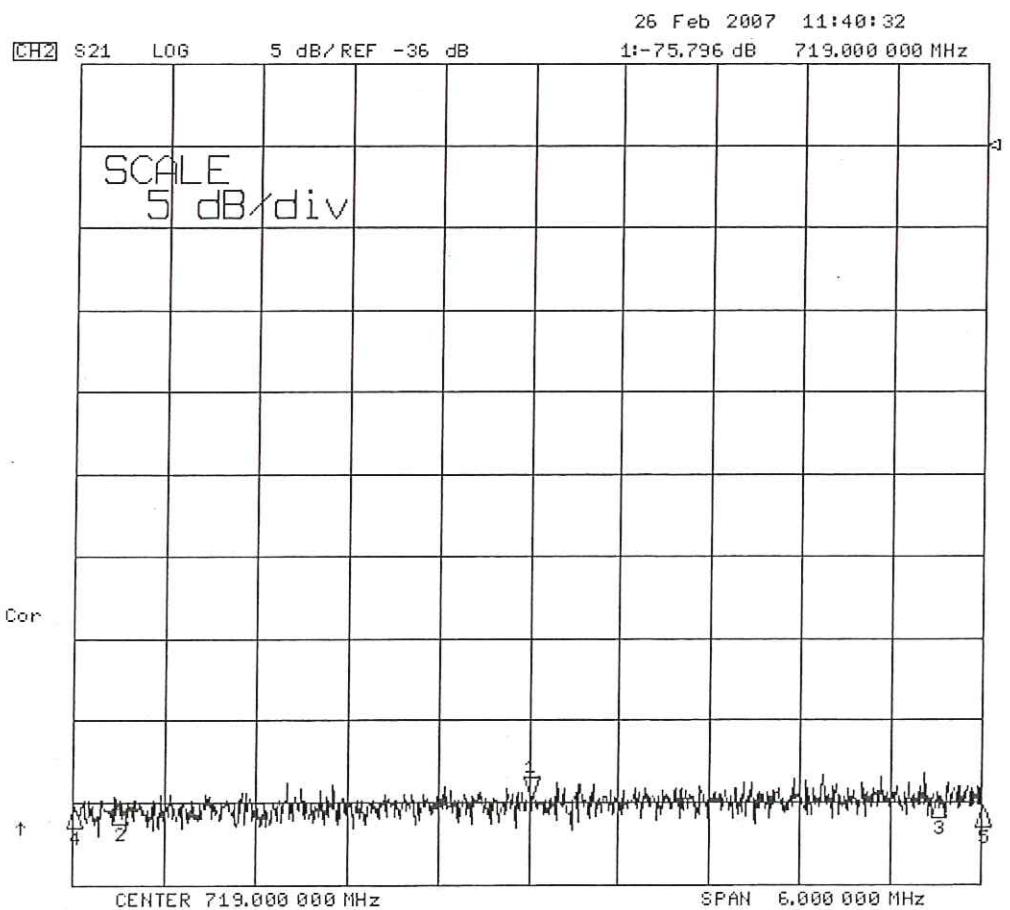
5:-76.946 dB
722.000 MHz

DIRECTIVITY

1449

MEDIAFLO 12 SECTION
UNITIZED FILTER

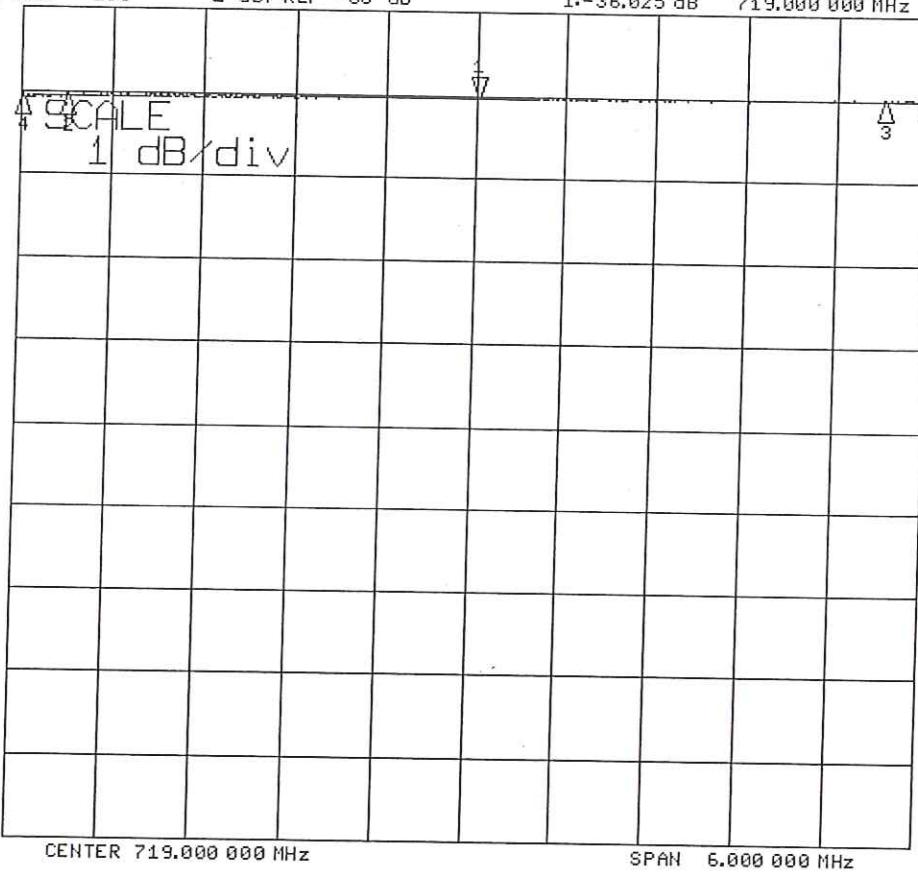
COUPLING



DIRECTIVITY

1449

CH2 S21 LOG 1 dB/REF -36 dB

26 Feb 2007 11:49:46
1:-36.025 dB 719,000,000 MHz

MEDIFLO 12 SECTION
UNITIZED FILTER
DC3
(REV)

CH2 Markers
2:-36.060 dB
716.290 MHz

3:-36.006 dB
721.710 MHz

4:-36.067 dB
716.000 MHz

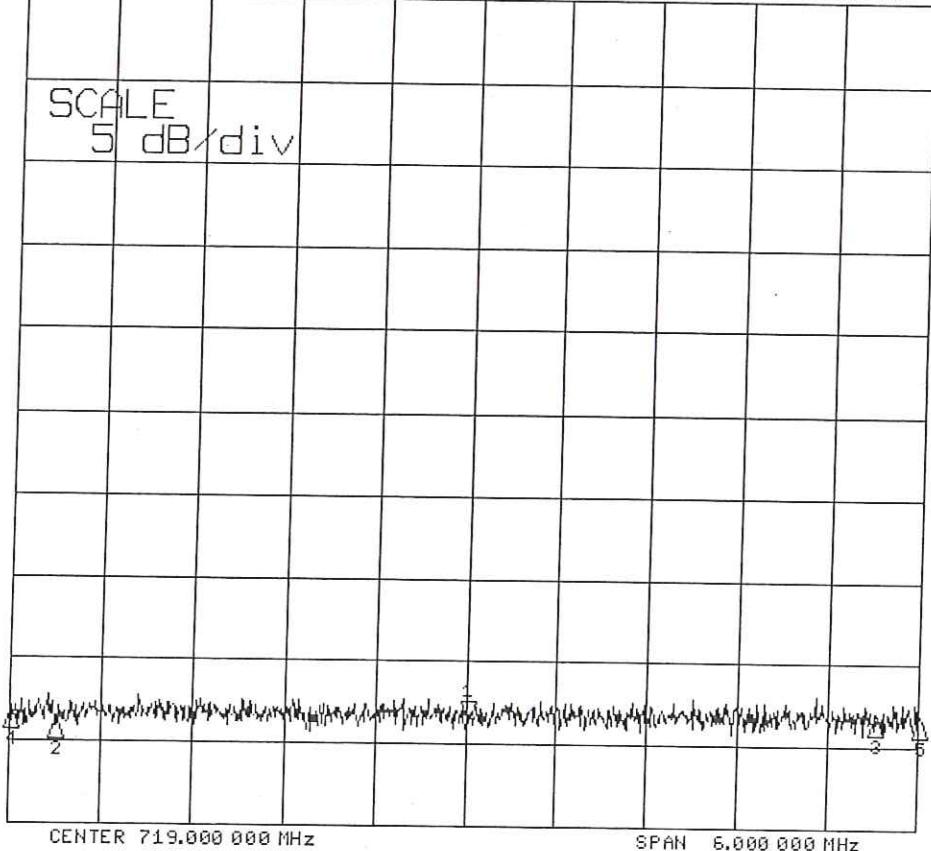
5:-36.000 dB
722.000 MHz

COUPLING

Cor

↑

CH2 S21 LOG 5 dB/REF -36 dB

26 Feb 2007 11:50:30
1:-74.749 dB 719,000,000 MHz

CH2 Markers
2:-74.633 dB
716.290 MHz

3:-74.169 dB
721.710 MHz

4:-74.153 dB
716.000 MHz

5:-74.227 dB
722.000 MHz

DIRECTIVITY

Cor

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