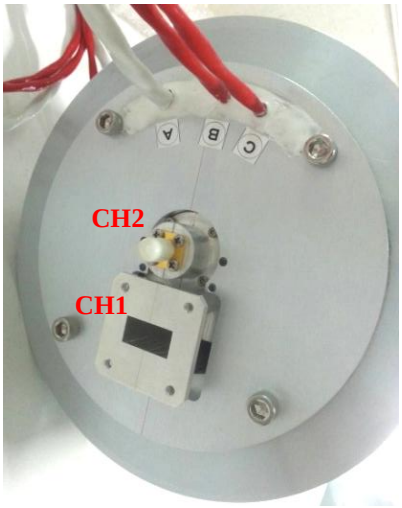
VICTORY MICROWAVE CORPORATION

WR75 2CH Rotary Joint & 9CH Slip Ring For Mobile VSAT Antenna

Part Number：6467A000-1



2CH Rotary Joint			
Channel Designation	**Channel 1**	**Channel 2**	
Interface Type	Waveguide (50Ω)	SMA-f	
Frequency Range	13.75 to 14.5 GHz	0.1 to 2.0 GHz	2.0 to 4.0 GHz
Peak Power Capability	200 W*	30 W**	
Average Power Capability	200 W*	30 W**	20 W**
VSWR, max/typ	1.3	1.15	1.25
VSWR Variation Over Rotation, max/typ	0.1 (Design goal 0.05)	0.05	
Insertion Loss, max/typ	0.7 dB	0.35 dB	0.7 dB
Isolation, min	60 B		

*Power Capacity @ 14.5 GHz ** Power Capacity @ 2.1 GHz

9CH Slip Ring			
	A	**B (RS232/RS485)**	**C(CAN-bus)**
Number of Channels	3	1	1
Number of Rings/Channel	1	2+1S	2+1S
Total Number of Rings	3	3	3
Using Voltage	115	24	24
Nominal Current	20	1	1
Dielectric Strength For t=60 s (V) AC 50 Hz	2000 AC	500 AC	500 AC
Installation resistance (MΩ) For voltage DC (V)	300 500	300 500	300 500

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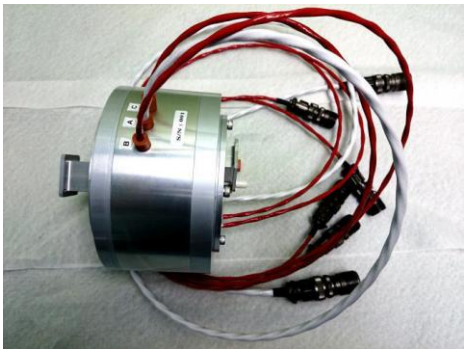
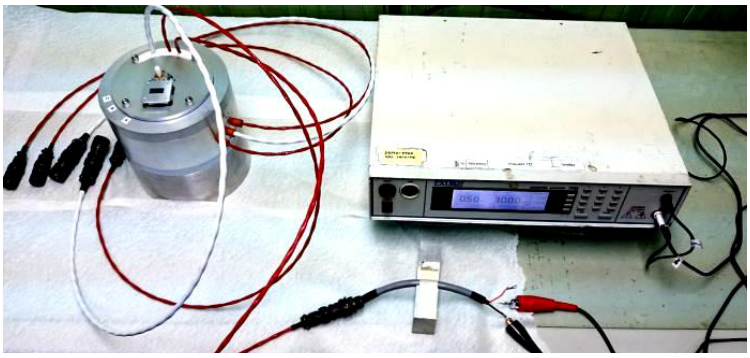
Slip Ring Test Report





Specifications				VMC Test	
Connector	A	B	C	SN 001	SN 002
Number of Channels	3	1	1	Designed to meet specifications	
Number of Rings/Channel	1	2+1S	2+1S	Designed to meet specifications	
Total Number of Rings	3	3	3	Designed to meet specifications	
Using Voltage	115	24	24	Connector A : Pass Connector B : Pass Connector C : Pass	Connector A : Pass Connector B : Pass Connector C : Pass
Nominal Current	20	1	1	Connector A : Pass Connector B : Pass Connector C : Pass	Connector A : Pass Connector B : Pass Connector C : Pass
Dielectrical Strength For t=60 s AC 50 Hz	2000 V	500 V	500 V	Connector A (Pin A & B) : Pass (Pin A & C) : Pass (Pin B & C) : Pass Connector B (Pin A & B) : Pass (Pin A & C) : Pass (Pin B & C) : Pass Connector C (Pin A & B) : Pass (Pin A & C) : Pass (Pin B & C) : Pass	Connector A (Pin A & B) : Pass (Pin A & C) : Pass (Pin B & C) : Pass Connector B (Pin A & B) : Pass (Pin A & C) : Pass (Pin B & C) : Pass Connector C (Pin A & B) : Pass (Pin A & C) : Pass (Pin B & C) : Pass
Installation resistance For voltage DC	300 M 500 V	300 M 500 V	300 M 500 V	Connector A (Pin A & B) : 545 M (Pin A & C) : 631 M (Pin B & C) : 550 M Connector B (Pin A & B) : 795 M (Pin A & C) : 898 M (Pin B & C) : 868 M Connector C (Pin A & B) : 813 M (Pin A & C) : 926 M (Pin B & C) : 540 M	Connector A (Pin A & B) : 354 M (Pin A & C) : 727 M (Pin B & C) : 567 M Connector B (Pin A & B) : 847 M (Pin A & C) : 448 M (Pin B & C) : 902 M Connector C (Pin A & B) : 1046 M (Pin A & C) : 1249 M (Pin B & C) : 1166 M
Rotating Speed, max	20 RPM			Pass	Pass
Staring Torque, max	5 Nm			1.8 Nm (18 kgf.cm)	2.7 Nm (28 kgf.cm)
Torque During Rotation, max	4 Nm			< 1.8 Nm	< 2.7 Nm
Case Material	Aluminum alloy or stainless steel			Aluminum alloy	Aluminum alloy

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2 CH ROTARY JOINT

Interface Type : Waveguide

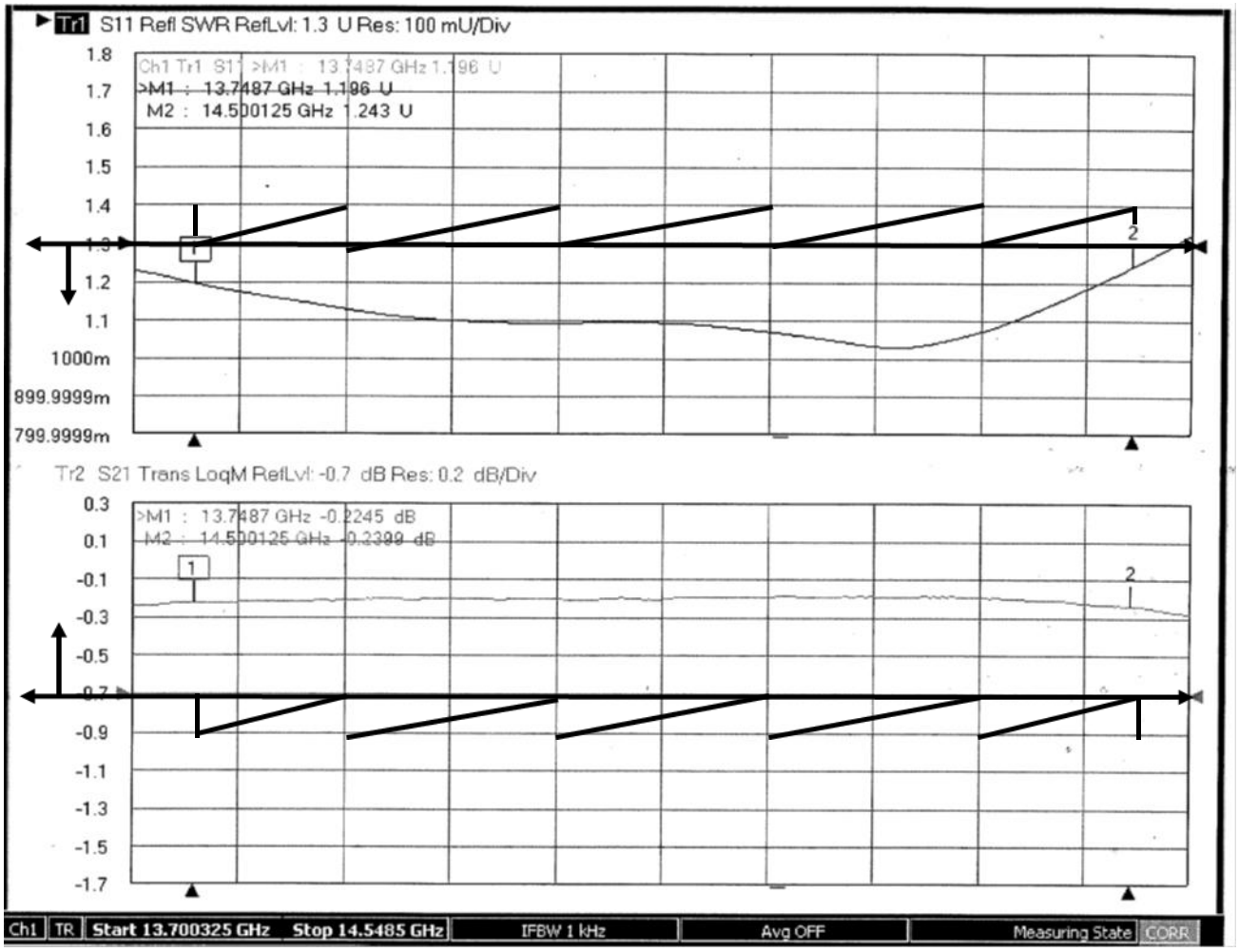
Frequency Ranges : 13.75 ~ 14.5 GHz

VSWR : ≦1.3

Insertion Loss : ≦0.70 dB

[Channel 1] Waveguide-WR75

VSWR



Insertion Loss

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2 CH ROTARY JOINT

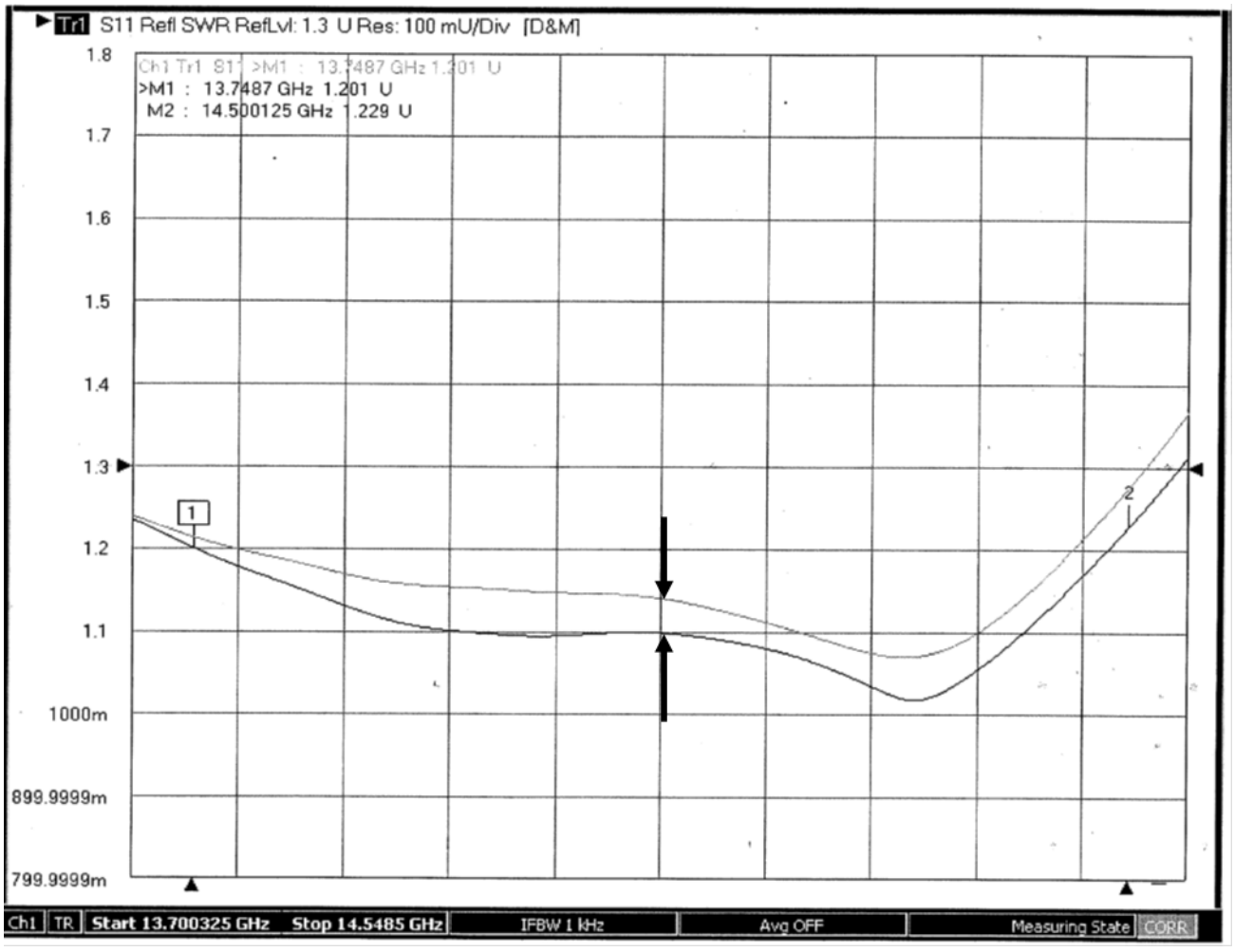
Interface Type : Waveguide

Frequency Ranges : 13.75 ~ 14.5 GHz

VSWR WOW(360deg.) : ≦0.1

[Channel 1] Waveguide-WR75

VSWR WOW



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2 CH COAXIAL ROTARY JOINT

Interface Type : SMA-f

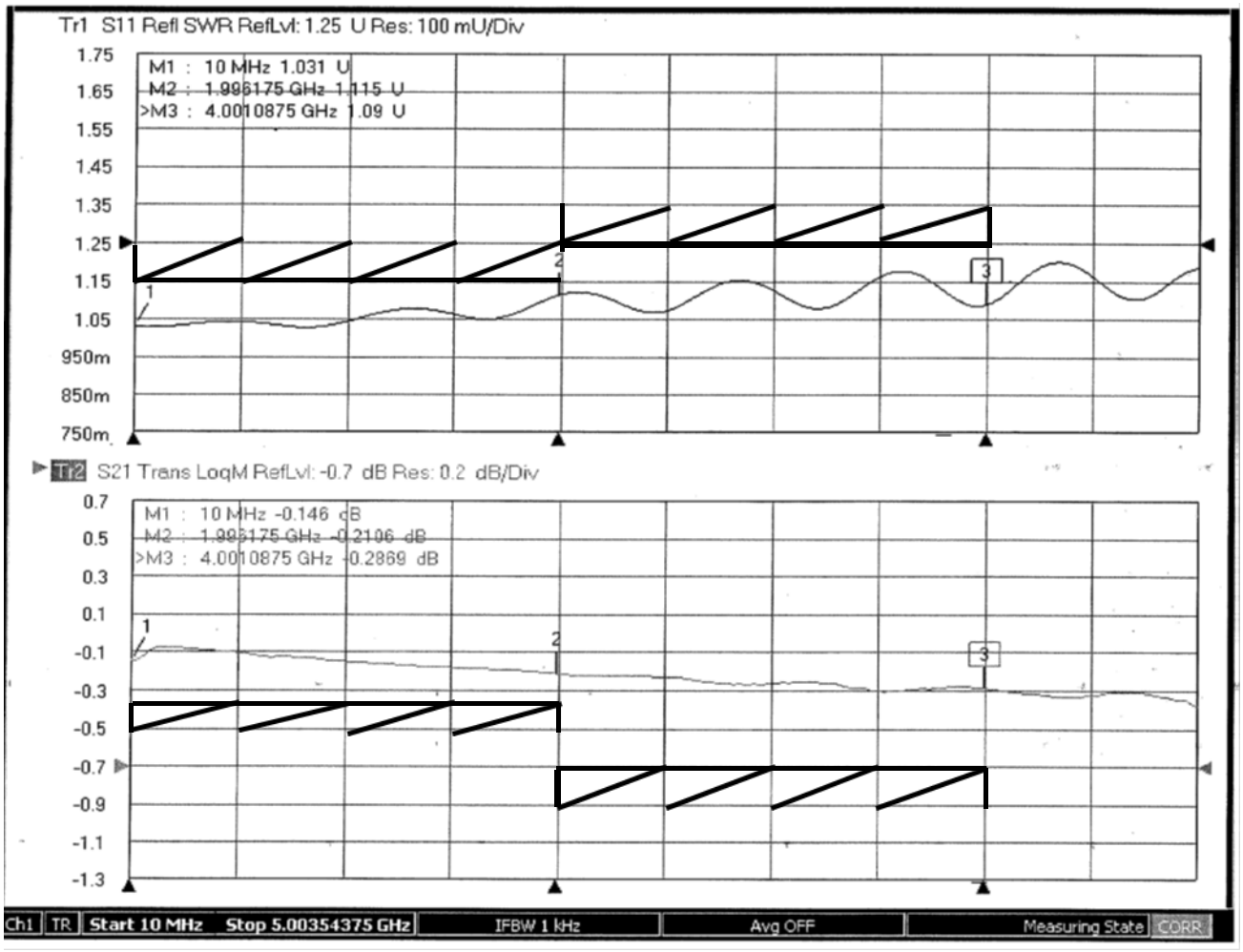
Frequency Ranges : 0.1 ~ 2.0 GHz / 2.0 ~ 4.0 GHz

VSWR(0.1~2.0GHz) : ≦1.15 / VSWR(2.0~4.0GHz) : ≦1.25

Insertion Loss(0.1~2.0GHz) : ≦0.35 dB / Insertion Loss(2.0~4.0GHz) : ≦0.70 dB

[Channel 2] Coaxial-SMA

VSWR



Insertion Loss

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VICTORY MICROWAVE CORPORATION

2 CH COAXIAL ROTARY JOINT

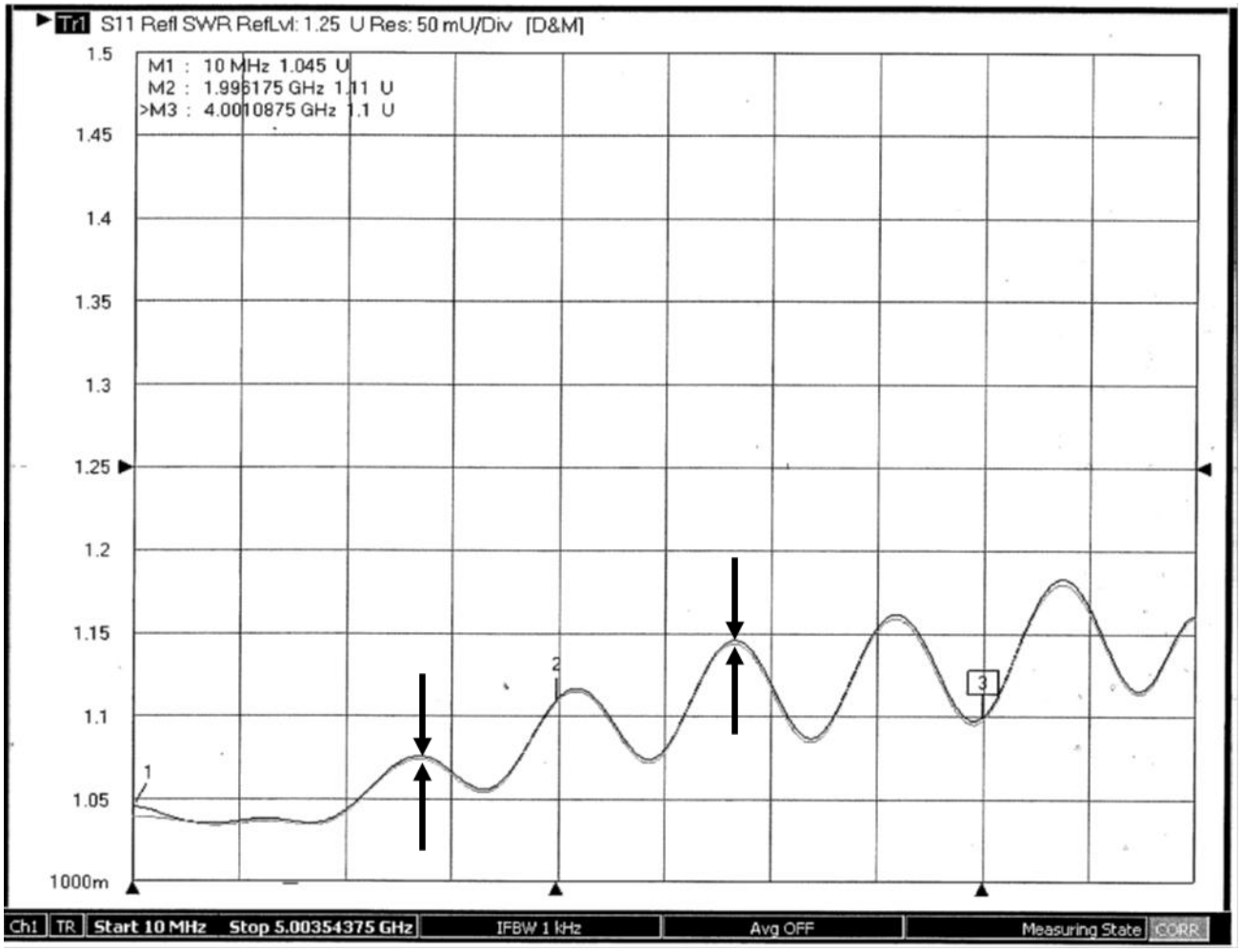
Interface Type : SMA-f

Frequency Ranges : 0.1 ~ 2.0 GHz / 2.0 ~ 4.0 GHz

VSWR WOW(360deg.) : ≦0.05

[Channel 2] Coaxial-SMA

VSWR WOW



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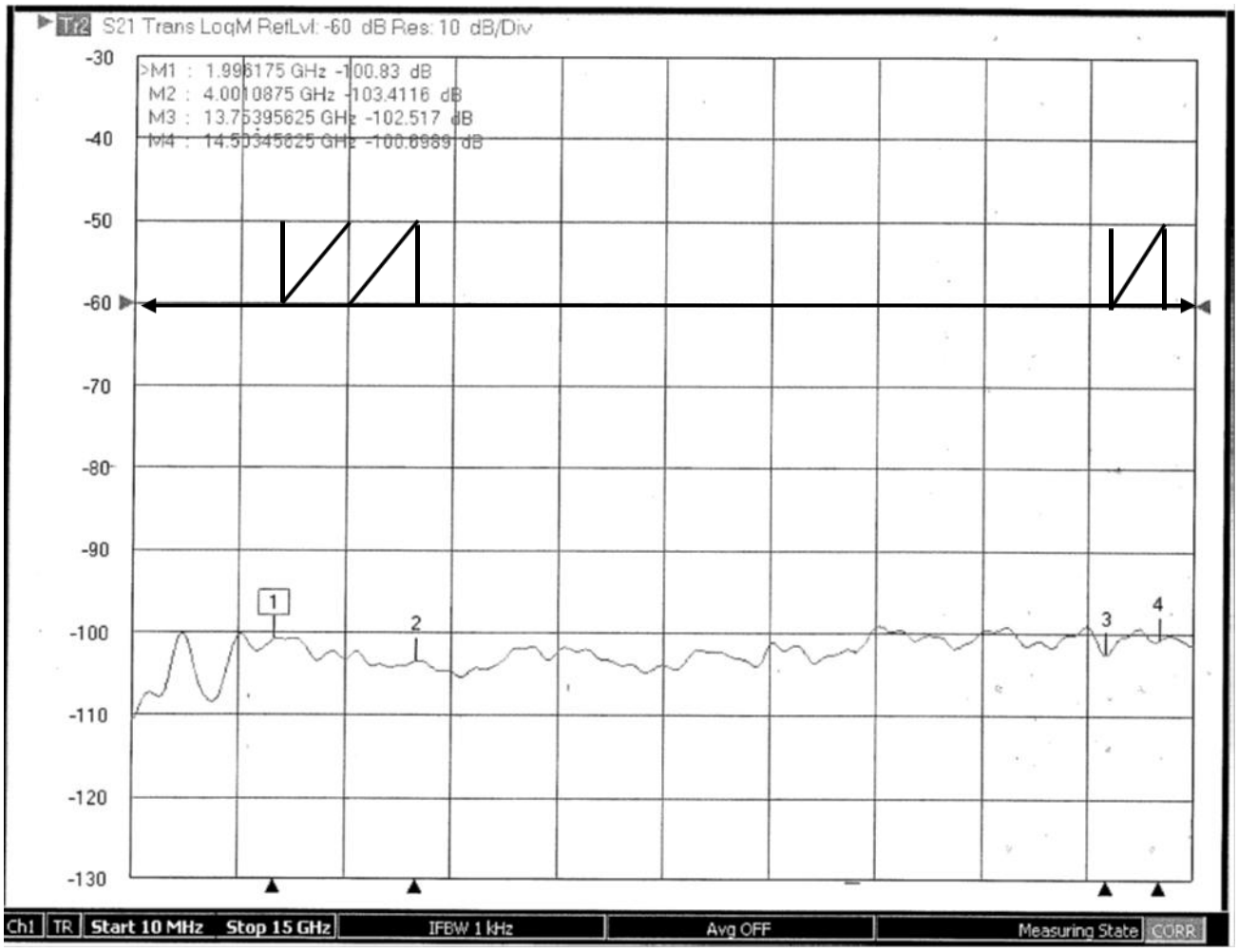
2 CH COAXIAL ROTARY JOINT

Channel Isolation : ≧ 60 dB

Channel 1 - Channel 2

Channel Isolation



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