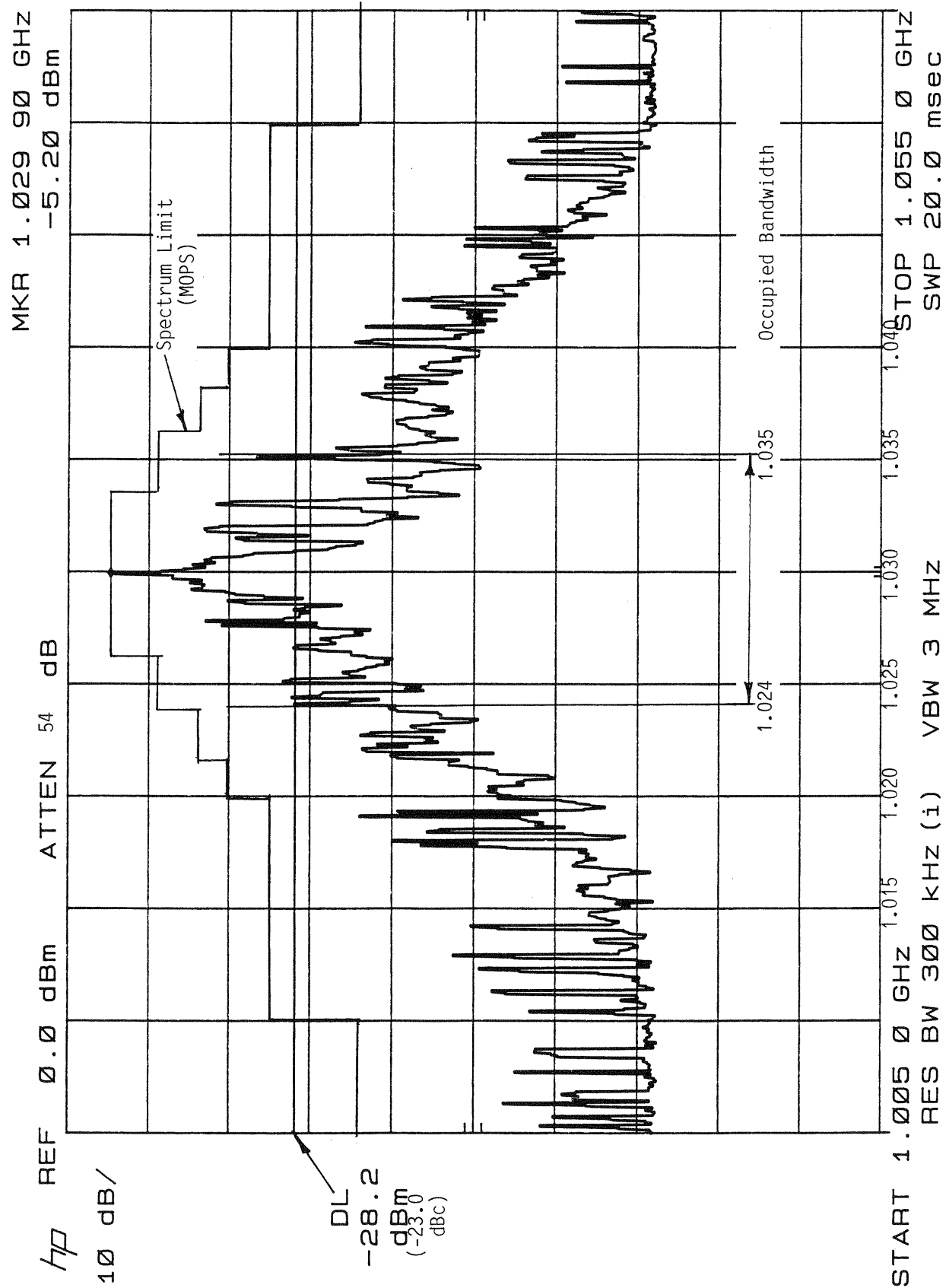
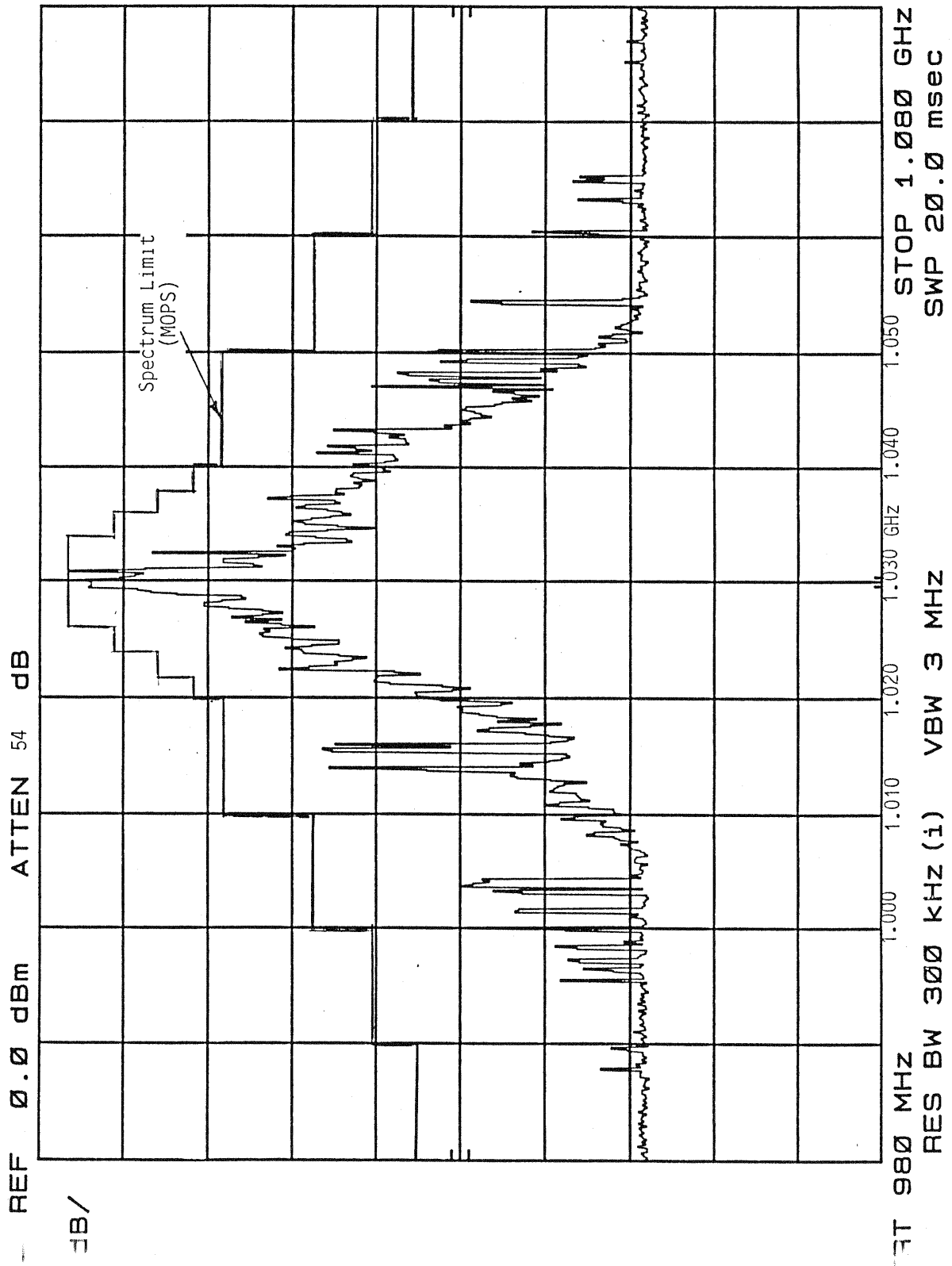


OCCUPIED BANDWIDTH



Output Spectrum, 5 MHz/division



Output Spectrum, 10 MHz/division

SPURIOUS EMISSIONS

- | | | |
|----|----------------------------------|--------------------|
| 1. | Narrowband Radiated Interference | 150 kHz to 1 GHz |
| 2. | Broadband Radiated Interference | 150 kHz to 1 GHz |
| 3. | Narrowband Radiated Interference | 1 GHz to 1.5 GHz |
| 4. | Broadband Radiated Interference | 1 kHz to 1.5 GHz |
| 5. | TCAS CU Output at Antenna | 0 GHz to 1.0 GHz |
| 6. | TCAS CU Output at Antenna | 1.0 GHz to 2.5 GHz |
| 7. | TCAS CU Output at Antenna | 2.5 GHz to 11 GHz |

Honeywell

Commercial Flight Systems Group / PHOENIX, ARIZONA

DATE: FEB 24 '90 TIME:

TECHNICIAN: KERRY

U.U.T.: 4066010 - 901

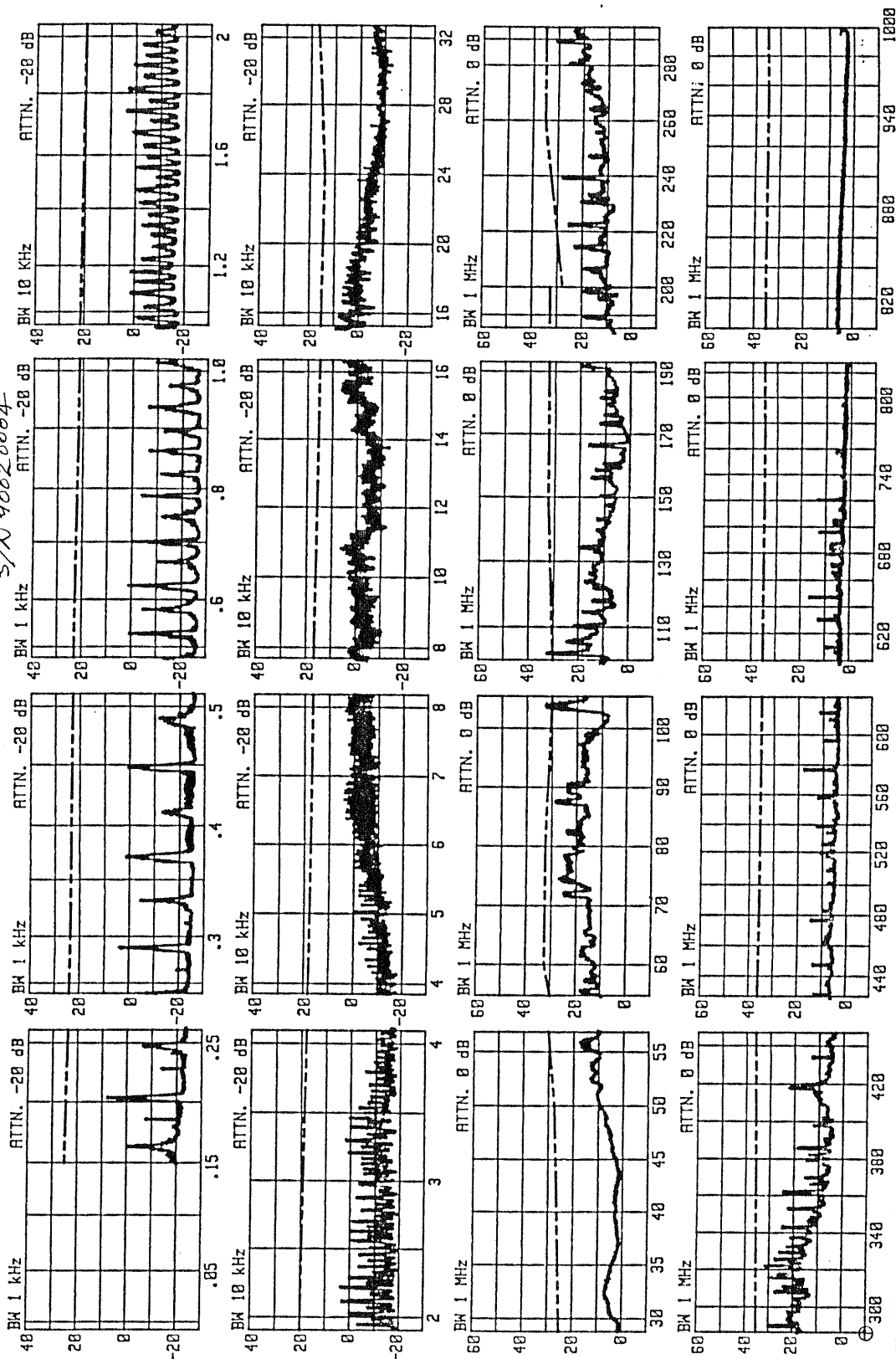
ENGINEER: C. Coney

* LIMIT LINE IS CORRECTED FOR TRANSDUCER & CABLE FACTOR

S/N 90020004

RTCA DO160-B NARROWBAND RADIATED INTERFERENCE

DETECTOR : FIELD INTENSITY
 SCAN SPEED : 5 MINUTE / BAND
 POWER FILTERS : L.I.S.N. FSR-701A
 ANTENNAS : 94607-1 (.015->30) 3104 (30->200) 9349B-1 (200->1000)



COMMENTS

Narrowband Radiated Interference 150 kHz to 1.0 GHz

RTCA DO160-B BROADBAND RADIATED INTERFERENCE

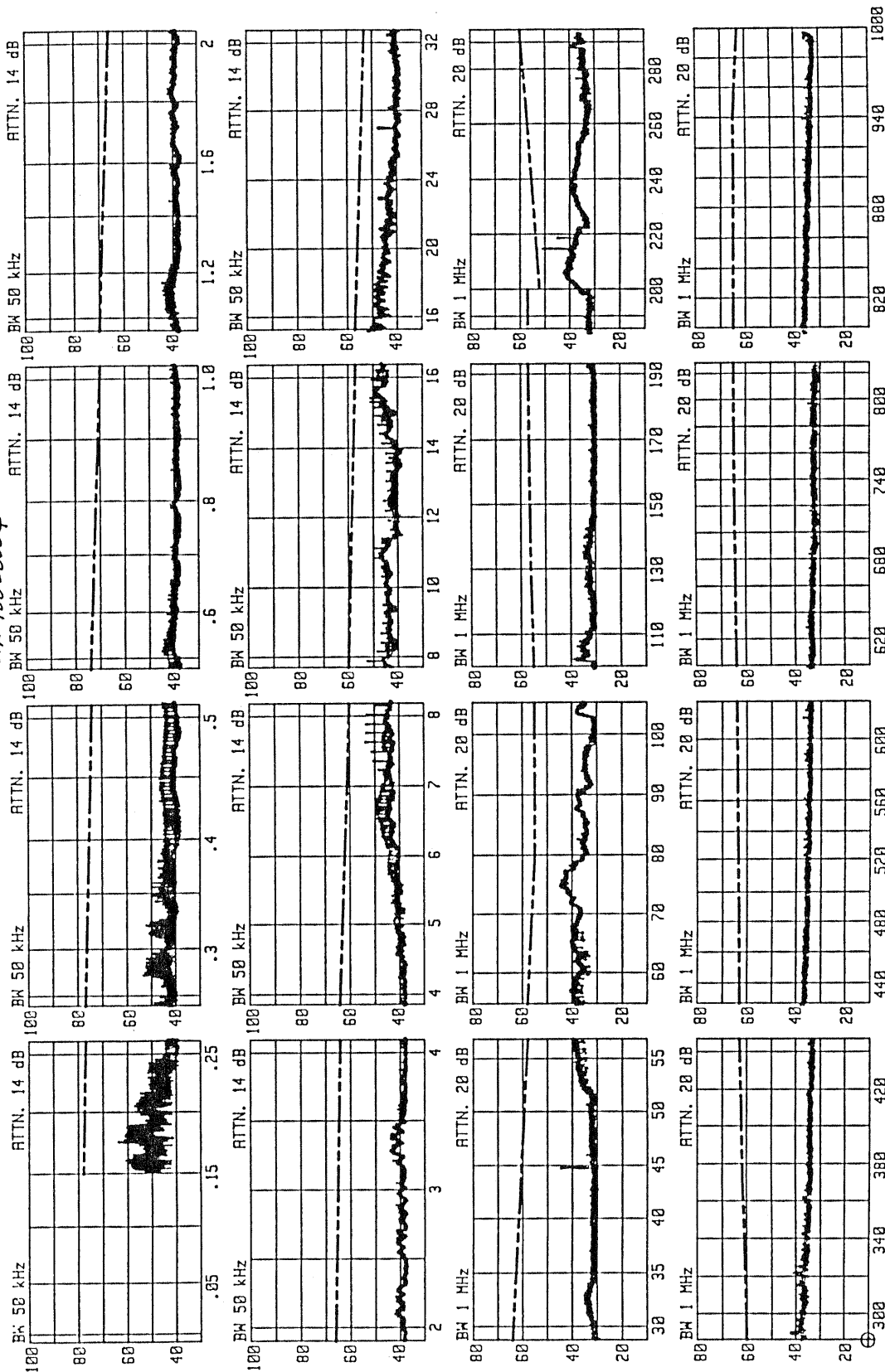
DETECTOR : PEAK .05 SECOND HOLD
 SCAN SPEED : 1.5 MINUTE / BAND
 POWER FILTERS : L.I.S.N FSR-701A
 ANTENNAS : 94607-1 (.015->30) 3104 (30->220) 93490-1 (200->1000)

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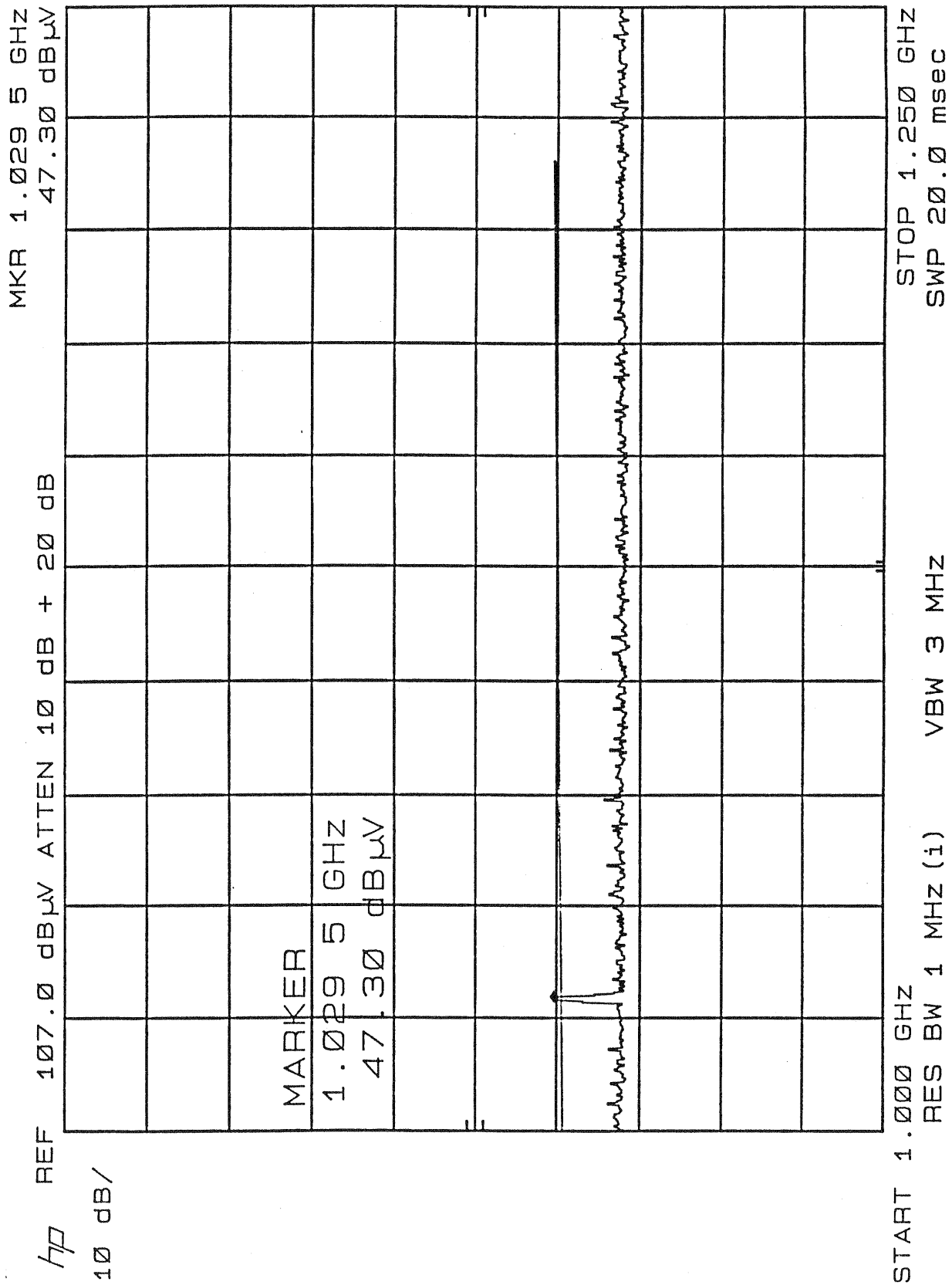
DATE: FEB 24 '90 TIME: TECHNICIAN: KERRY

U.U.T.: PW 4066010-901 ENGINEER: C. Coney

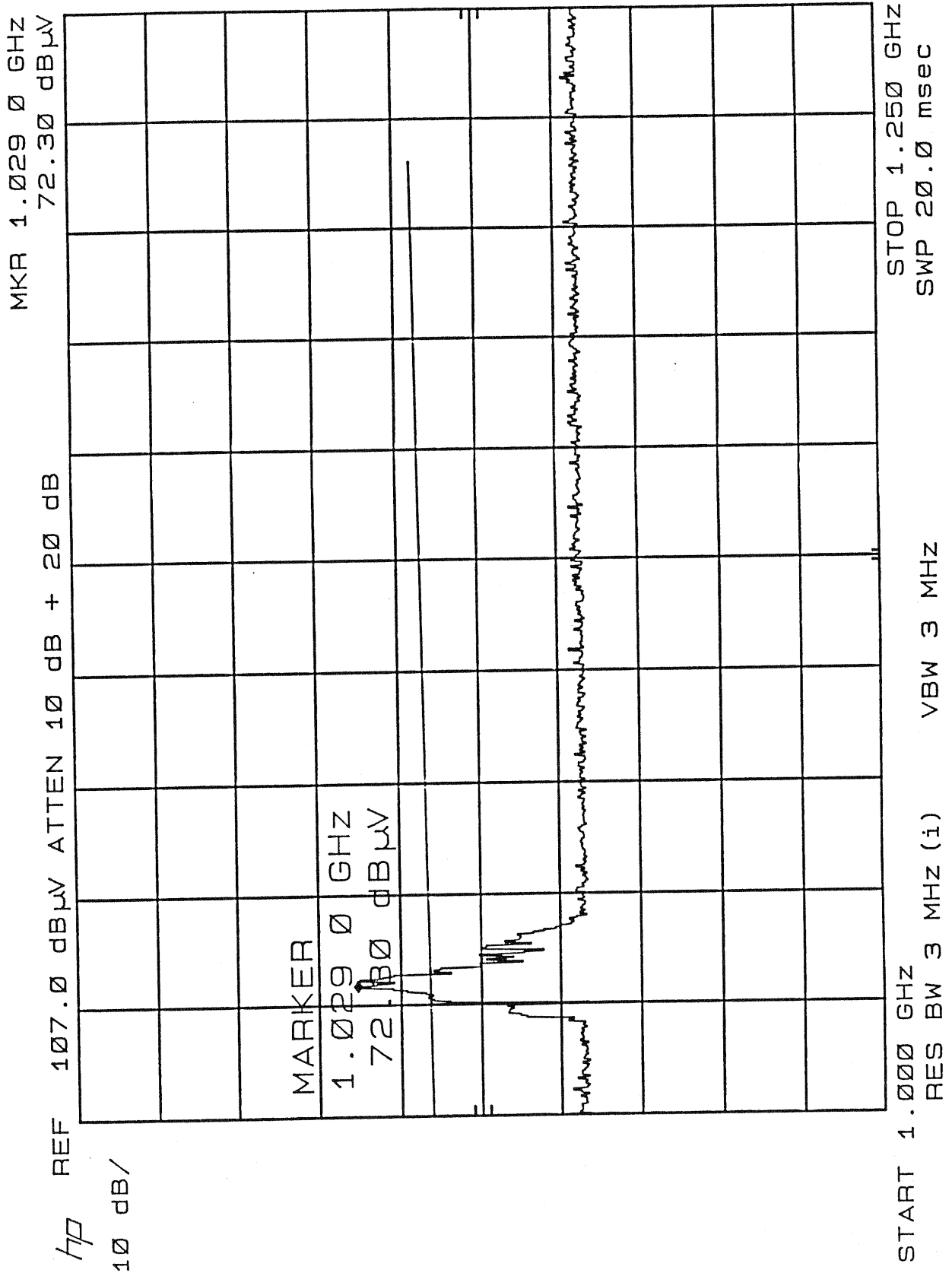
* LIMIT LINE IS CORRECTED FOR TRANSDUCER & CABLE FACTOR
 SN 90020004

COMMENTS

Broadband Radiated Interference 150 kHz to 1.0 GHz

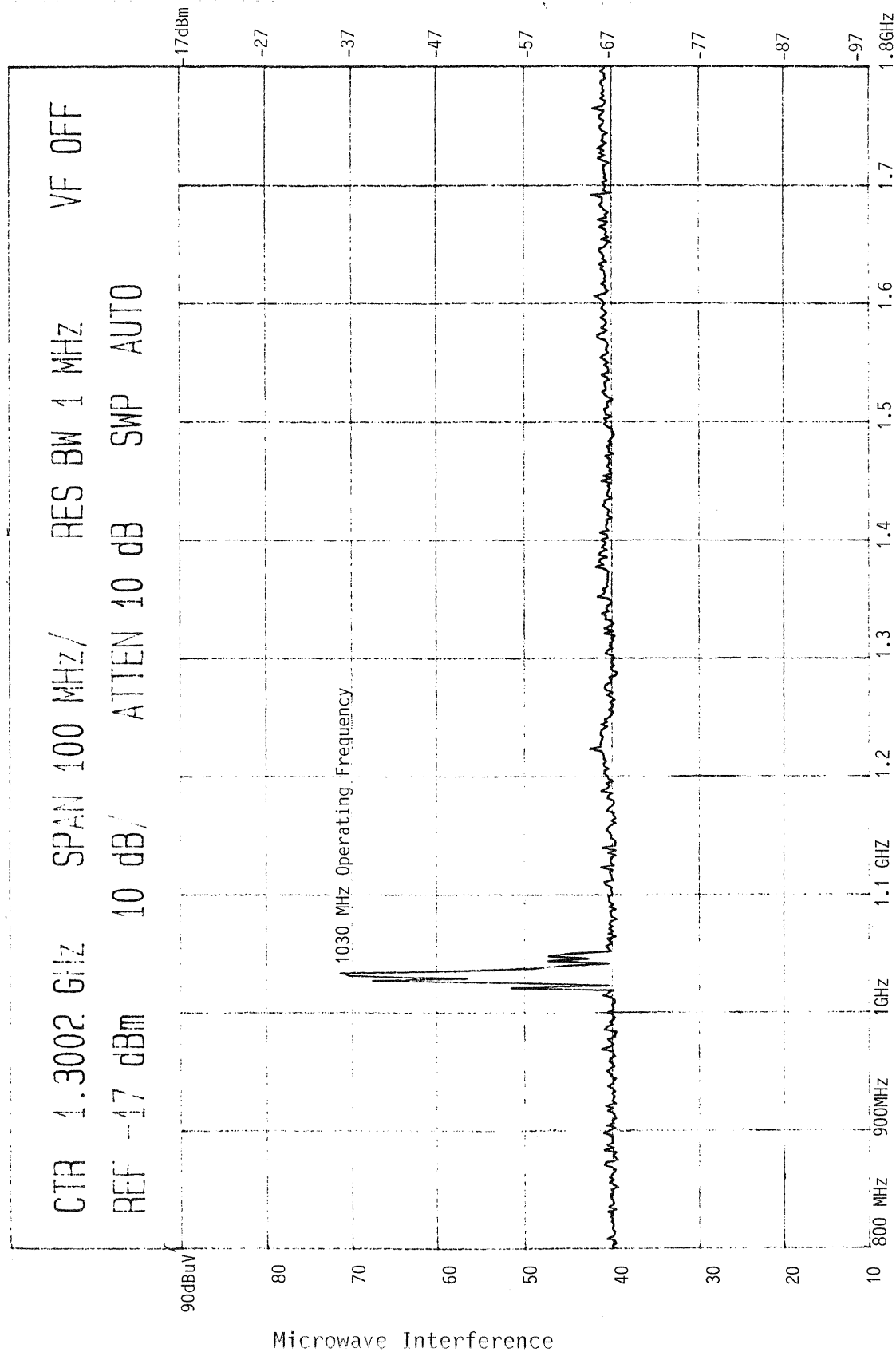


Narrowband Radiated Interference 1.0 GHz to 1.5 GHz

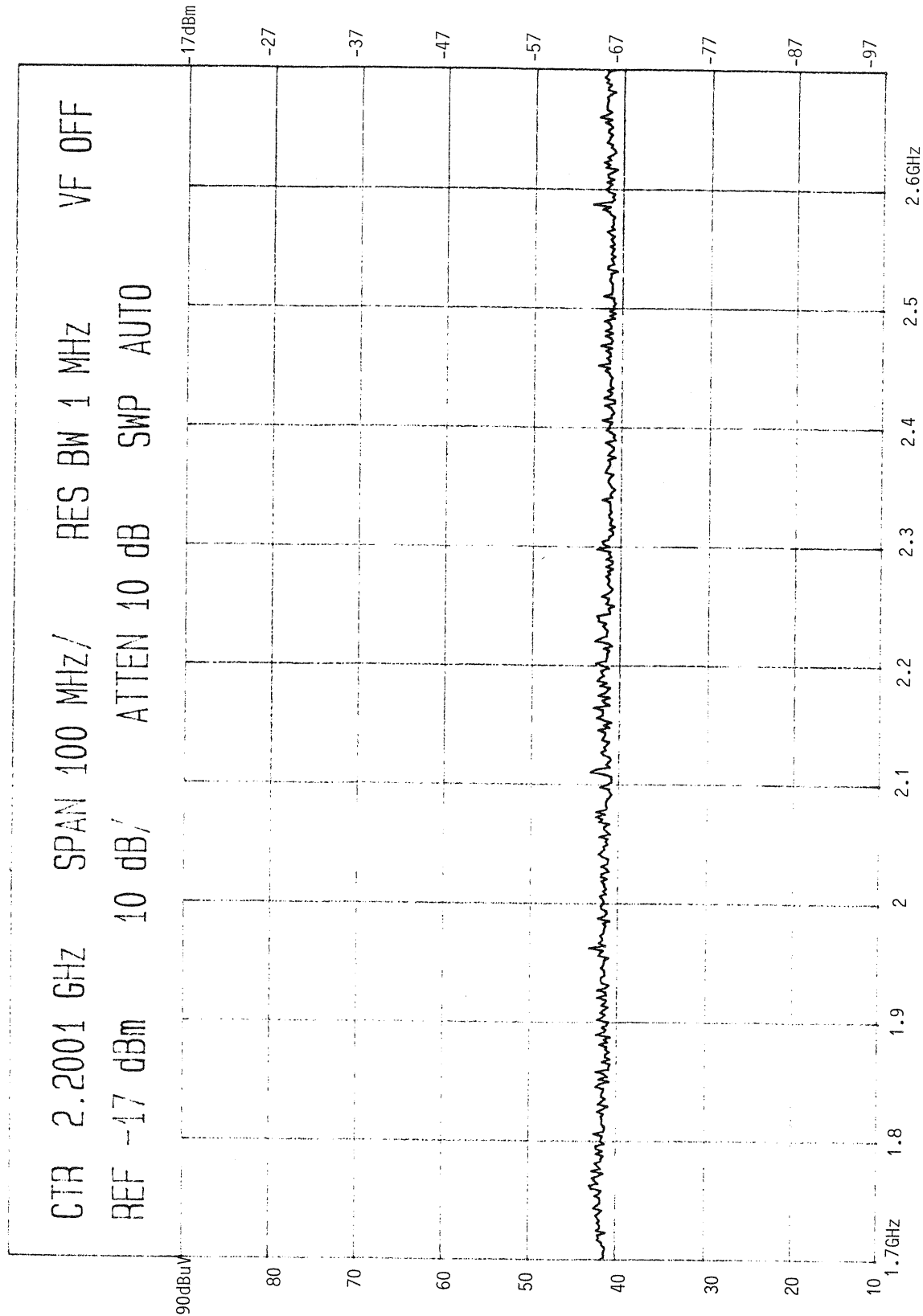


Broadband Radiated Interference 1.0 GHz to 1.5 GHz

910-701 ANTENNA 1G --> 2.5

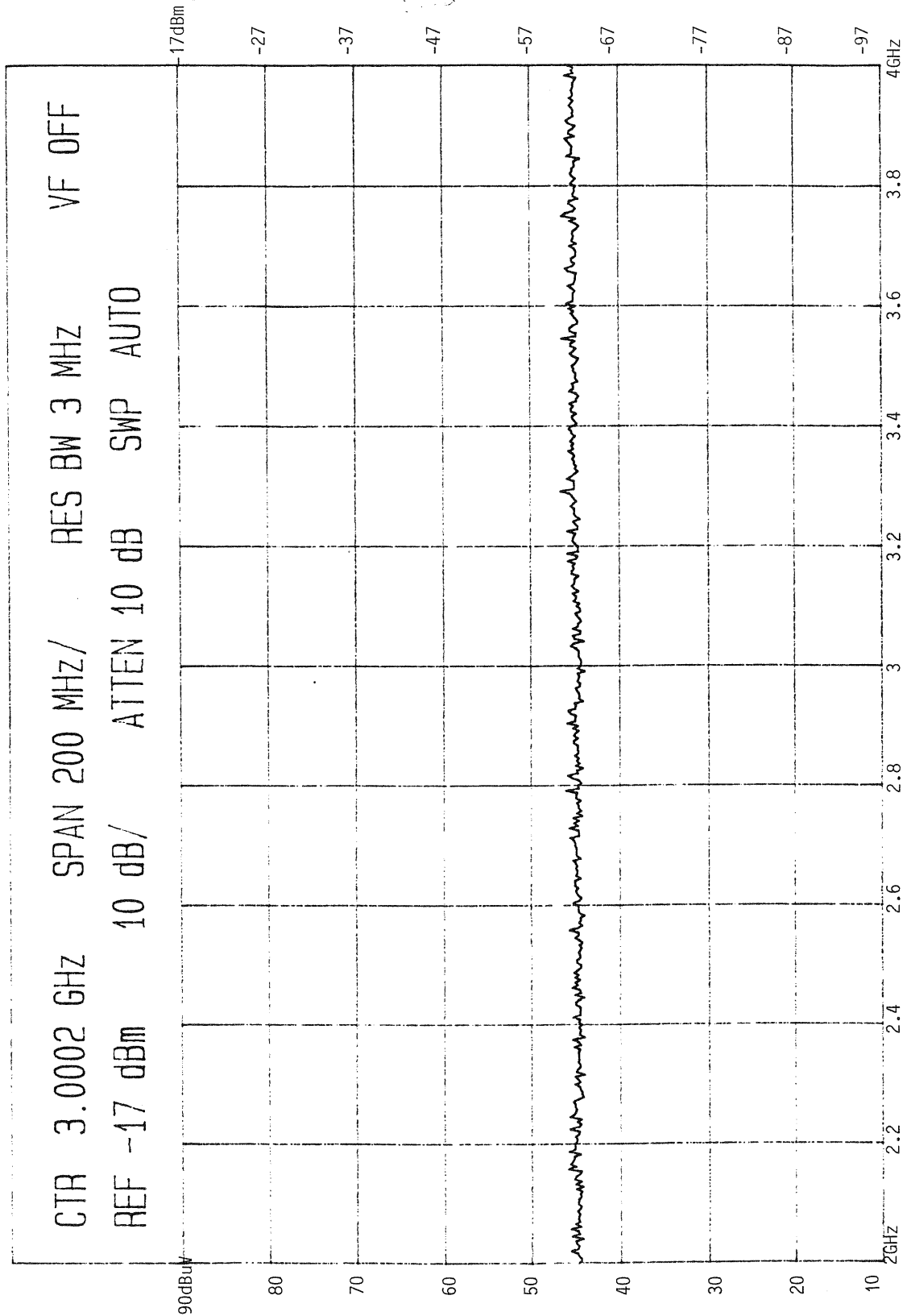


910-701 ANTENNA 1G --> 2.5G

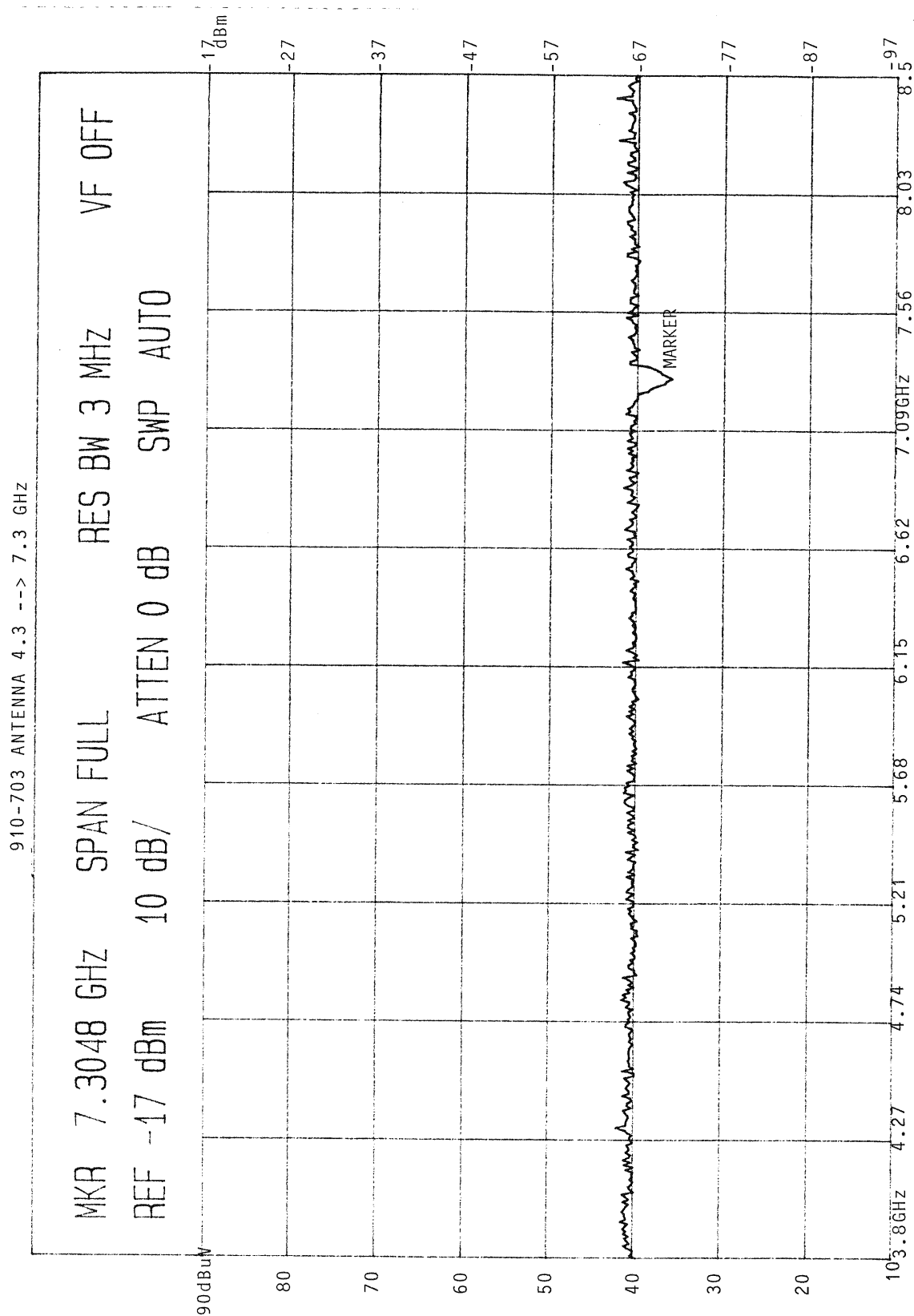


Microwave Interference

901-702 ANTENNA 2.4 --> 4.4



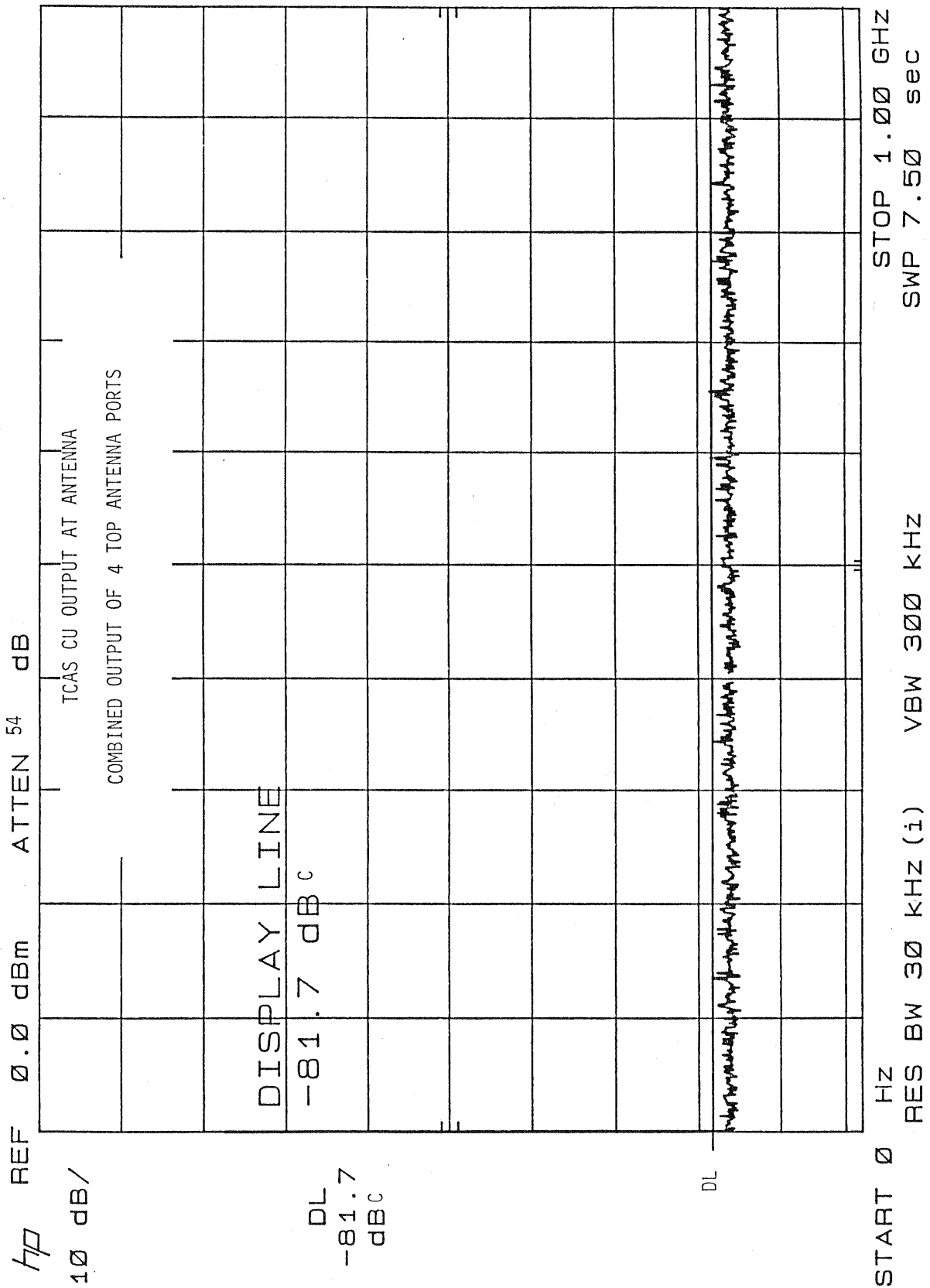
Microwave Interference



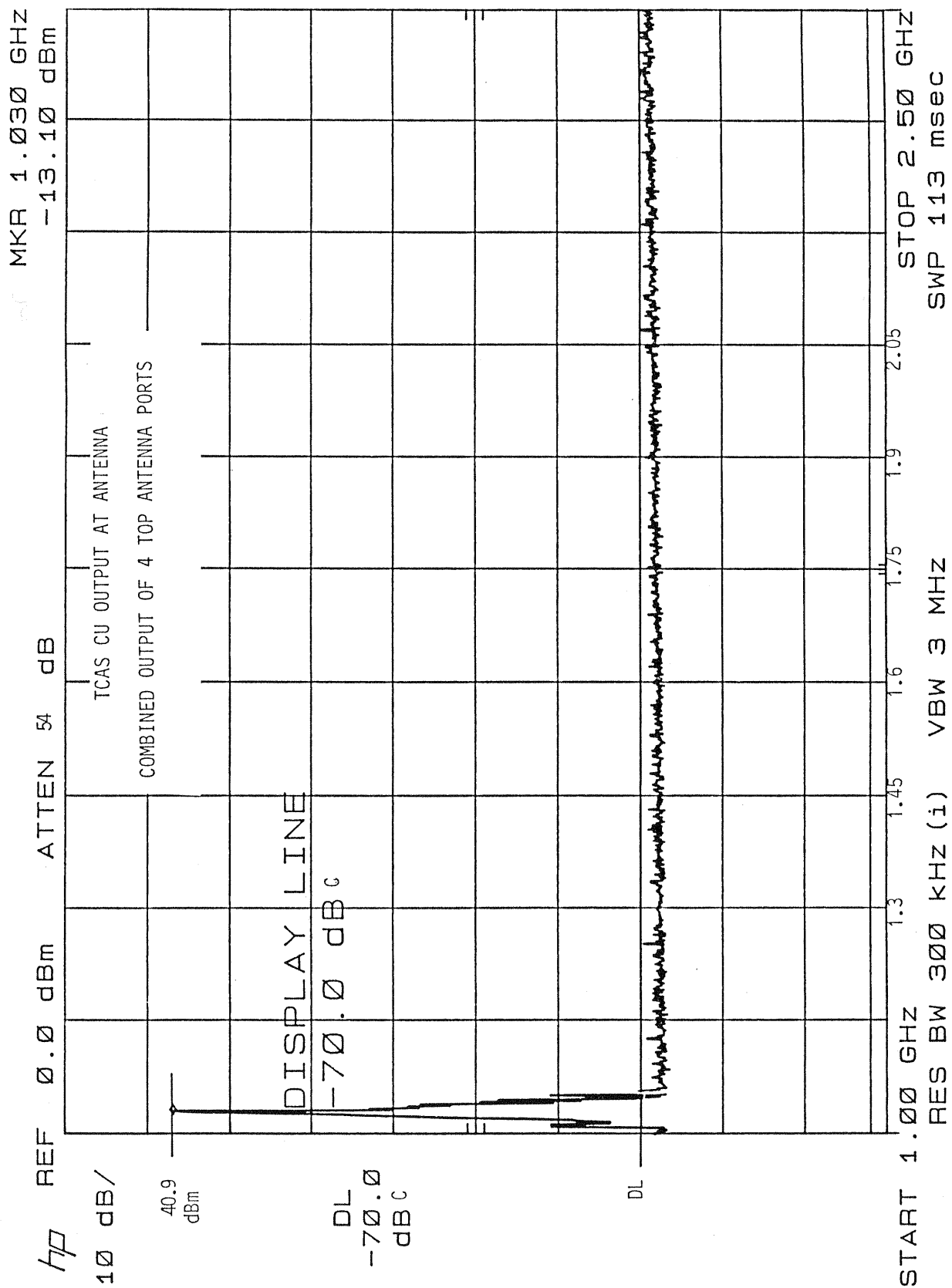
MKR 10.0021 GHz RES BW 3 MHz VF OFF
REF -17 dBm 10 dB/ SPAN FULL ATTEN 0 dB SWP AUTO

90dBuV
80
70
60
50
40
30
20
10

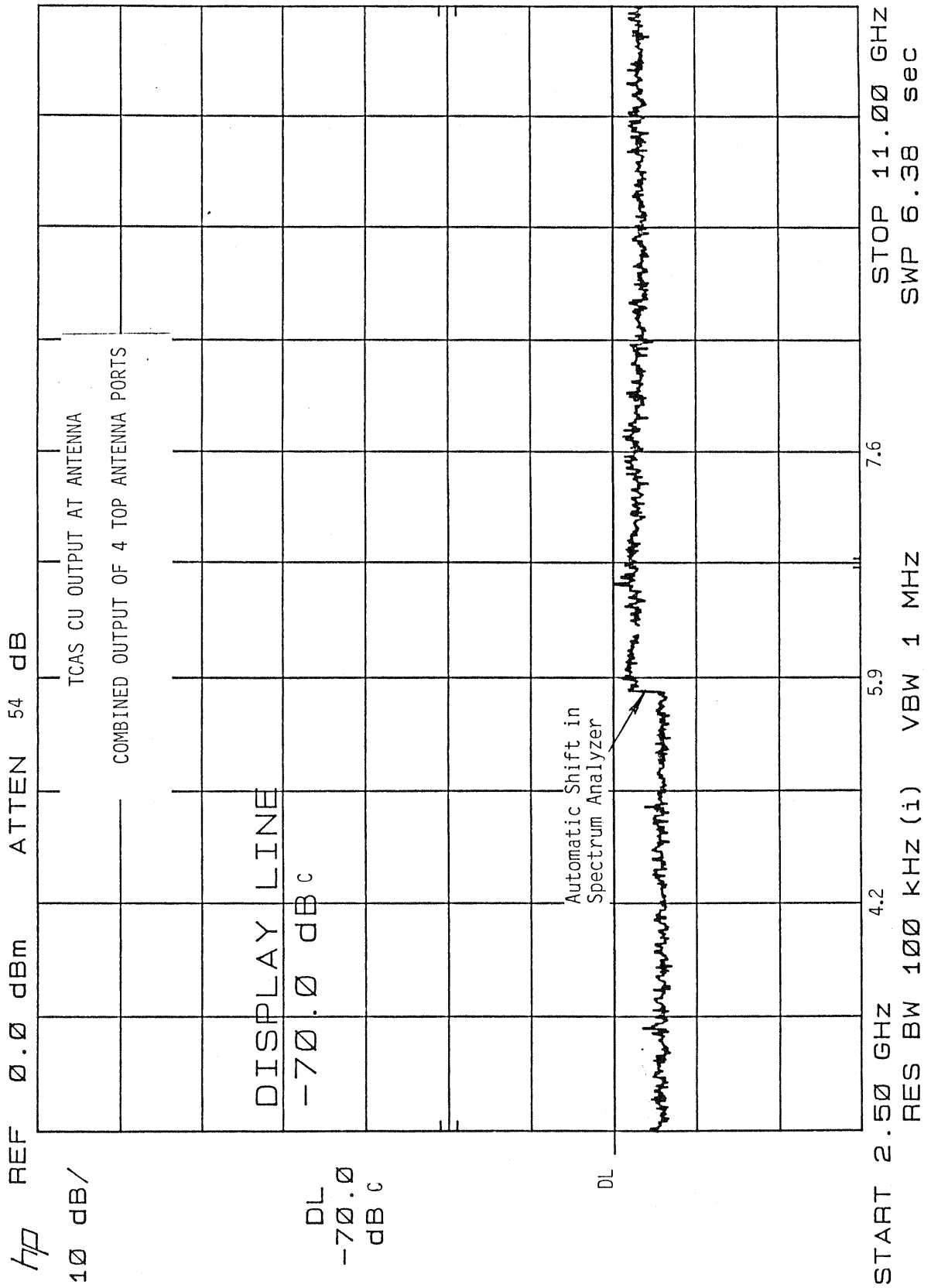
Microwave Interference
5.8 GHz 6.5 7.2 7.9 8.6 9.3 10.0 10.7 11.4 12.1 12.9



TCAS CU Output at Antenna 0 GHz to 1.0 GHz



TCAS CU Output at Antenna 1.0 GHz to 2.5 GHz



TCAS CU Output at Antenna 2.5 GHz to 11 GHz

FREQUENCY STABILITY
POWER OUTPUT

SPERRY COMMERCIAL FLIGHT SYSTEMS DIVISION

TEST NAME

Frequency Stability

UNIT UNDER TEST (UUT)

NAME _____

Tcas II Computer Unit

P/N 4066010-90

SERIAL

1066010-90
SERIAL 89/0002

TEST FIXTURES AND SUPPORT EQUIPMENT

[illegible]

TEST CONDITIONS

STANDARD LABORATORY AMBIENT ☒			
TEMP.	BARO.	REL. HUM.	%
POWER: 115 VAC 60 Hz ☐ 400 Hz ☐ 28 VDC ☐			
OTHER:			

APPLICABLE DOCUMENTS

TEST SPECIFICATION	FCC R & R, 2.995	REV	DATE
TEST SOFTWARE		REV	DATE
UUT SOFTWARE		REV	DATE
TEST NOTES			

Chamber Temp	Power, W	Freq. MHz	Pass/Fail
-20 C	<u>221 W</u>	<u>1030.0005</u>	<u>Pass</u>
-10 C	<u>221 W</u>	<u>1030.0005</u>	<u>Pass</u>
0 C	<u>240 W</u>	<u>1030.0005</u>	<u>Pass</u>
10 C	<u>229 W</u>	<u>1030.0004</u>	<u>Pass</u>
20 C	<u>229 W</u>	<u>1030.0003</u>	<u>Pass</u>
30 C	<u>229 W</u>	<u>1030.0003</u>	<u>Pass</u>
40 C	<u>222 W</u>	<u>1030.0003</u>	<u>Pass</u>
50 C	<u>200 W</u>	<u>1030.0001</u>	<u>Pass</u>
Room Temperature			
Power Input Voltage, 400 Hz			
97 V.	<u>229 W</u>	<u>1030.0003</u>	<u>Pass</u>
115 V.	<u>229 W</u>	<u>1030.0003</u>	<u>Pass</u>
133 V.	<u>229 W</u>	<u>1030.0004</u>	<u>Pass</u>

QC	TESTER <i>DD Fisher</i>	DATE <i>1-12-90</i>	PAGE 1 OF <u>1</u>
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1030 MHz OSCILLATOR DETAIL DIAGRAM

ENGINEERING
SPECIFICATION

SECURITY NOTATION

SPEC
NO. IT7514216

CAGE
CODE 55939

REV LTR

REV
LTR

5

10

15

20

25

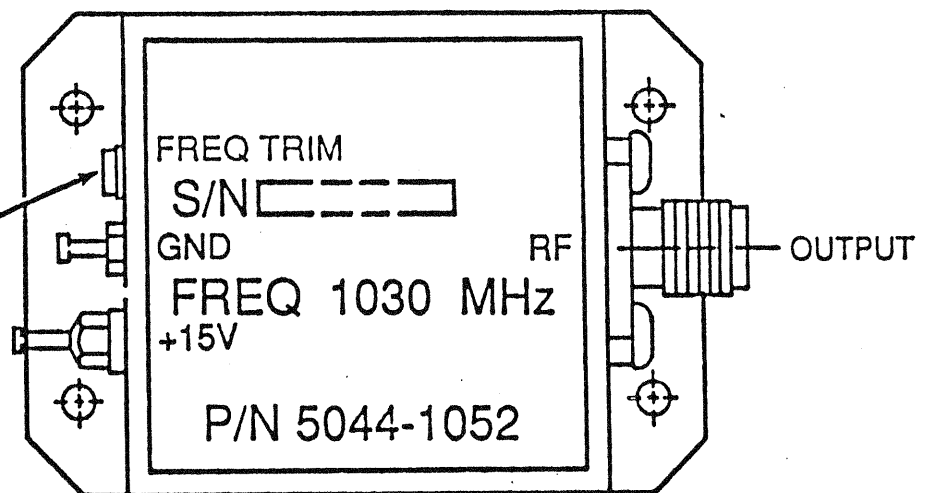
30

35

40

45

FREQUENCY
ADJUST



E7500643-8-B (R2)

1030 MHz Oscillator Detail Diagram
Figure A-14

Honeywell

SECURITY NOTATION

SUPPLEMENTS

A-19

PAGE