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THE BOEING COMPANY

CODE IDENT NO. 81205

NUMBER T2-2786, Vol. II

TITLE Electro-Interference Test Report on Power Supply Group, (Figure "A" 1284) Serial Number 0004

MODEL NO. WS-133A CONTRACT NO. AF04(647)-289

ISSUE NO. 34 ISSUED TO BSD/TDC

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U3 4287 9035 ORIG. 8/62

VOL. NO. 2 of 2 OF T2-2786
SECT. 3 PAGE 1

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U3 4287 9025 ORIG. 8/62

2-5142-2

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1.0 **REFERENCES**

1.1 Boeing Document D2-11802, Electro-Interference Test Requirements for Power Supply Set, DC, LF, Figure A 1284

1.2 Boeing Document D2-12233, Functional Test Procedure for Launcher Power Supply Set, Electro-Interference Test Set (A 1284)

1.3 Boeing Document D2-9801, Electro-Interference Test Plan for Operational WS-133A Equipment

1.4 Space Technology Laboratories Specification GM07-59-2617A, Electro-Interference Control Requirements for Minuteman (WS-133A)

2.0 ADMINISTRATIVE DATA

2.1 Purpose of Test

The purpose of this test was to determine the generated electro-interference levels and susceptibility characteristics of the Test Item, Figure A 1284, Serial No. 0004. The following tests were performed:

Conducted Interference
Radiated Interference
RF Conducted Susceptibility
Magnetic Induced, Equipment Susceptibility
Magnetic Induced, Cable Susceptibility

2.2 Description of Test Item

The Test Item, Power Supply Group, DC, LF, OA-3386/GSW-4, Serial No. 0004, Boeing Part No. 25-22552-36, Figure A 1284, consists of one rack containing four 28 VDC power supplies, an AC Panel, and a DC Panel. The supplies are rated at 12A, 24A and two at 36A. The 24A supply was not included in the Test Item submitted for electro-interference tests.

Facilities required by the Test Item for operation are 120/208 volt, 400 cycle, 3 phase power, and 66 lbs/min. at 55 ± 2 degrees F, cooling air.

The Power Supply Group is located in each WS-133A Launcher as part of the Electric Power Subsystem and performs the following functions:

a. Converts 400 cycle power to regulated DC.

b. Distributes both 400 cycle AC power, and regulated DC, to Launcher equipment.

c. Provides AC and DC circuit protection for the power distributed.

d. Provides switching functions for DC power distribution.

3.0 SUMMARY

The following electro-interference tests were performed in accordance with the requirements of References 1.1 and 1.3.

Conducted broadband interference: transient and steady-state
Radiated broadband interference: transient and steady-state
Conducted CW interference
Susceptibility: RF Conducted
Susceptibility: Equipment and Cable, Magnetic-Induced

Conducted broadband measurements exceeded the limits of Reference 1.4 in 61% of the readings.

Conducted CW measurements exceeded the limits of Reference 1.4 in 84% of the readings.

Broadband radiated measurements exceeded the limits of Reference 1.4 in 24% of the readings.

Susceptibility test results were as follows:

RF Conducted Susceptibility: Not susceptible
Magnetic Induced, Equipment Susceptibility: Not susceptible
Magnetic Induced, Cable Susceptibility: Not susceptible

4.0 TEST CONDITIONS

Test conditions complied with the requirements of Reference 1.1 and Reference 1.3, paragraph 5.0

The electro-interference tests were conducted in Shield Room 24 of the 9.101 Building. All ambient levels were within the limits of Reference 1.4.

The Test Item was positioned and connected to the Load Simulator 25-28997, as specified in Reference 1.1, paragraph 1.6.

The Test Item and the Load Simulator were grounded according to Reference 1.1, paragraph 2.6.

Power and forced air cooling were supplied to the Test Item as specified in Reference 1.1, paragraph 1.4.2. Power to the Test Load was supplied as specified by Reference 1.2, paragraphs 3.0 and 4.0.

Prior to testing, the Test Load was functionally checked out according to Reference 1.2.

Power and cooling air were periodically checked during the test for compliance with the specifications of References 1.1 and 1.2.

Added 4-8-63

5.0 TEST PROCEDURES AND OPERATION

5.1 Procedures

Test procedures followed the requirements of References 1.1 and 1.3. The required tests performed were those called out in Reference 1.1, paragraph 2.4.

Conducted interference tests were made in accordance with Reference 1.3, paragraph 6.0 and Reference 1.1, paragraph 3.2.

Radiated interference tests were made in accordance with Reference 1.3, paragraph 7.0 and Reference 1.1, paragraph 3.3.

Magnetic Induced, Cable Susceptibility tests were made in accordance with Reference 1.3, paragraph 9.9 and Reference 1.1, paragraph 3.4.

Magnetic Induced, Equipment Susceptibility tests were made in accordance with Reference 1.3, paragraph 9.8 and Reference 1.1, paragraph 3.4.

RF Conducted Susceptibility tests were made in accordance with Reference 1.3, paragraph 9.2 and Reference 1.1, paragraph 3.4.

Criteria for determining susceptibility were defined in Reference 1.1, paragraph 3.4.

5.2 Operation

It was established before starting the test, and during the test, that the Test Item and Test Load were operating in a satisfactory functional manner.

Radiated and Conducted broadband tests were performed in each of three modes. Modes 1 and 2 were steady state and Mode 3 was transient. All modes were operated as described in Reference 1.1, paragraph 3.1 and Table 1. Mode 3 consists of alternately depressing the "G&C Coupler Power On" and "G&C Coupler Power Off" switches. It was recorded in the remarks column of the data sheet which operation generated the highest reading. Other abbreviations found in the column are defined in Appendix VI.

In steady state Modes 1 and 2, a scan for the presence of CW signals was made in each frequency range.

All Susceptibility tests were performed in Mode 2.

6.0 TEST RESULTS

6.1 Conducted Interference

6.1.1 Broadband

About 61% of all broadband conducted levels exceeded the limits of Reference 1.4. Conducted steady-state exceeded these limits at the following test points in Modes 1 and 2.

Test Point	Mode	Over the Limit Frequency Range (MC)	Freq. at Max. Level (MC)	Max. DB
J09-1	1	30 cps - .015		13
J09-1		.026 - 3	.8	38
J09-2		30 cps - .015		13
J09-2		.027 - 3	.6	37
J09-3		30 cps - .015		13
J09-3		.022 - 3	.6	37
J09-4		30 cps - .015		1
J09-4	1	.2 - 1.5	1.0	20
J09-1	2	30 cps - .015		19
J09-1		.031 - 2.5	.67	41
J09-2		30 cps - .015		21
J09-2		.016, .027 - 2.5	.6	40
J09-3		30 cps - .015		25
J09-3		.016, .032 - 2.5	.5	38
J09-4		30 cps - .015		10
J09-4		.2 - 2.5	1.2	22
TP-1		.6 - 2		14
TP-2	2	.8 - 2.5	1.2	8

Conducted transient readings exceeded the limits at the following test points in Mode 3.

Test Point	Mode	Over the Limit Frequency Range (MC)	Freq. at Max. Level (MC)	Max. DB
J09-1	3	30 cps - .015		24
J09-1		.015, .020, .03 - 25	2.5	65
J09-2		30 cps - .015		25
J09-2		.015, .030 - 25	2.5	72
J09-3		30 cps - .015		25
J09-3		.015, .03 - 25	2.0	62
J09-4		30 cps - .015		14
J09-4		.04 - 25	2.0	59
TP-2		.8 - 25	2.0	38
TP-3		30 cps - .015		6
TP-3		.04 - 25	2.0	56
TP-4		.6 - 25	25.0	41
TP-5		.8 - 25	8.0	52

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6.1.2 **CW Interference**

CW signals were measured in Modes 1 and 2. Most of these signals were in the frequency range of 14 KC to 150 KC and occurred about every 2.2 KC. To limit the number of measurements, readings were restricted to three per frequency octave. About 84% of all CW levels exceeded the limits of Reference 1.4. The following list gives all above limit frequencies in Modes 1 and 2.

Test Point	Mode	Over the Limit Frequency Range (MC)	Freq. at Max. Level (MC)	Max. DB
J09-1	1	.015, .021, .027, .032, .041, .051, .06, .08, .1, .12, .14	0.1	18
J09-2		.015, .022, .027, .032, .041, .051, .062, .08, .1, .12, .14	0.1	17
J09-3		.016, .021, .026, .031, .041, .051, .06, .08, .1, .12, .14		20
J09-4	1	.017, .022, .027, .031, 2.55	2.55	16
J09-1	2	.016, .021, .026, .031, .041, .051, .06, .08, .1, .121, .141, .67, .83, 1, 1.6, 2, 2.5	1	22
J09-2		.016, .021, .027, .032, .041, .051, .06, .084, .101, .12, .14, 1, 1.2, 2, 2.5	1	22
J09-3		.016, .021, .027, .032, .042, .05, .06, .081, .1, .121, .144, 1, 1.2, 2.1	1	23
J09-4		.017, .021, .031, .5, 1.2, 1.9	0.017	14
TP-2	2	.56	0.56	13

6.2 **Radiated Interference**

6.2.1 **Broadband Radiated**

About 24% of all broadband radiated levels exceeded the limits of Reference 1.4. Transient interference exceeded the limits in the following Frequency range for Mode 3.

Frequency Range (MC)	Freq. at Max. Level (MC)	Max. DB
.03, .05, .2 - 200	40	39

Added 4-8-63

6.2.1 **Broadband Radiated** (continued)

All broadband, radiated, steady-state interference was below the limits of Reference 1.4.

6.2.2 **CW Radiated**

No radiated CW signals were detected.

6.3 **Susceptibility Tests**

6.3.1 **RF Conducted**

Susceptibility Voltage Insertion Point	Test Point Monitored	Result
J9-1	J01-17 & J01-20	Not susceptible
	J01-18 & J01-19	Not susceptible
	J03-3 & J03-5	Not susceptible
J9-2	J01-17 & J01-20	Not susceptible
	J01-18 & J01-19	Not susceptible
	J03-3 & J03-5	Not susceptible
J9-3	J01-17 & J01-20	Not susceptible
	J01-18 & J01-19	Not susceptible
	J03-5 & J03-5	Not susceptible
J9-4	J01-17 & J01-20	Not susceptible
	J01-18 & J01-19	Not susceptible
	J03-3 & J03-5	Not susceptible

6.3.2 **Magnetic Induced, Equipment**

Test Point Monitored	Result
J01-17 & J01-20	Not susceptible
J01-18 & J01-19	Not susceptible
J03-3 & J03-5	Not susceptible

6.3.3 **Magnetic Induced, Cable**

Cables Tested	Test Points Monitored	Result
1284TC 1	J01-17 & J01-20	Not susceptible
	J01-18 & J01-19	Not susceptible
	J03-3 & J03-5	Not susceptible
1284TC 3	J01-17 & J01-20	Not susceptible
	J01-18 & J01-19	Not susceptible
	J03-3 & J03-5	Not susceptible

Added 4-8-63

6.4 It should be noted that the limits of Reference 1.4 are referred to throughout this report solely as a basis for discussion of test results, since no limits were specified in the Test Requirements Document as required per D2-9801, paragraph 5.1.

Added 4-8-63

7.0 CONCLUSIONS

The test results show that broadband and CW conducted, and radiated broadband interference exceed the limits of Reference 1.4. No radiated CW interference was detected.

The Test Item was not susceptible to the applied tests.

Added 4-8-63

8.0 RECOMMENDATIONS

It is recommended that a review of enclosed test data be made to determine whether electro-interference characteristics of the Test Item are compatible with System operations.

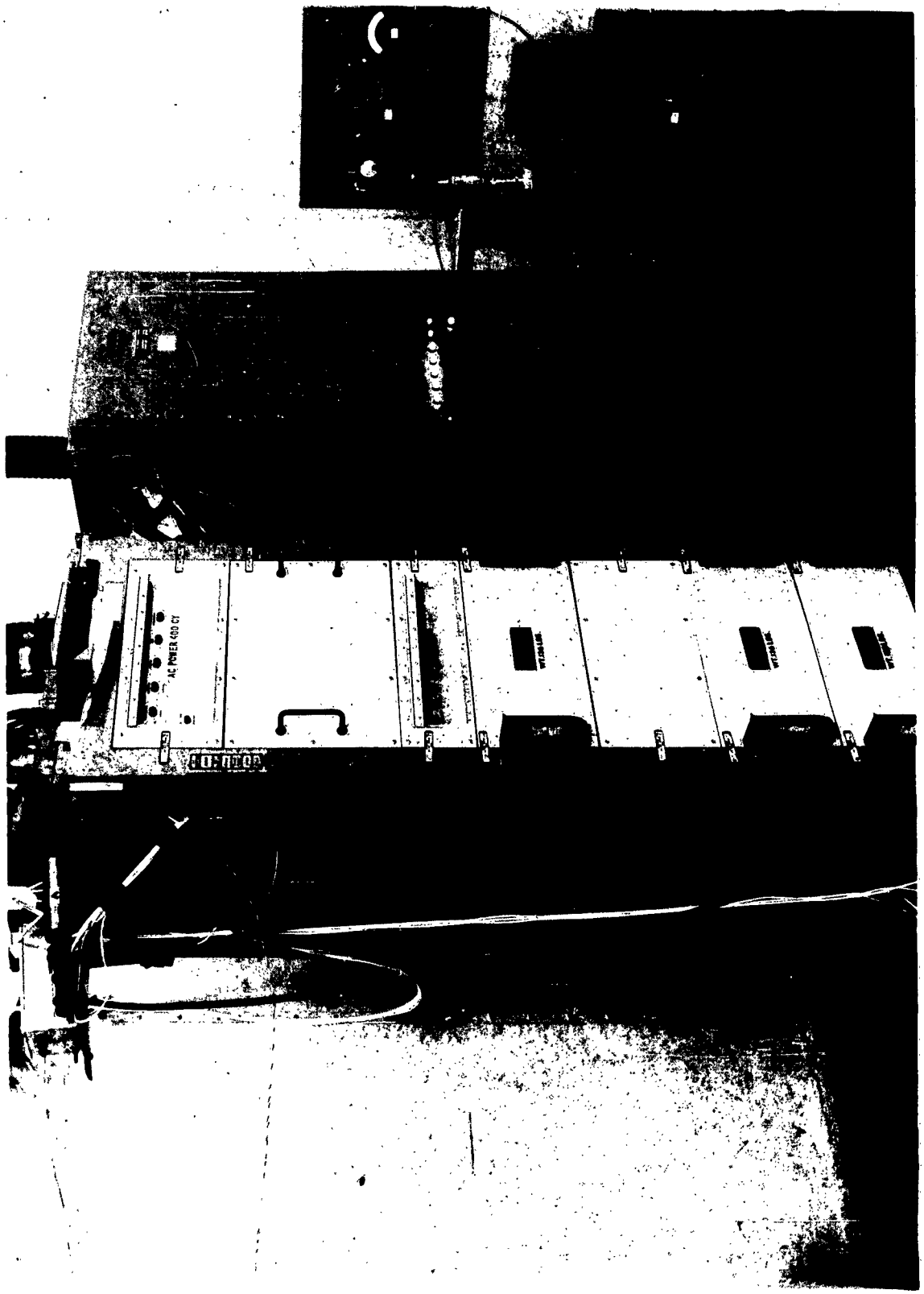
Added 4-8-63

APPENDIX I

Photographs

	Page
NM-40A Conducted	19
NF-105 Conducted	20
NF-105 Radiated V/A (15 - 150 KC)	21
NF-105 Radiated V/A (15 - 25 MC)	22
NF-105 Radiated D/A (25 - 400 MC)	23
RF Conducted Susceptibility	24
Magnetic Induced Susceptibility	25

Added 4-8-63



BOEING SEATTLE NM- RFI TEST ON POWER SUPPLY SET D.C., L.F. (FIG. A 1264) 3-1-63 2A1:34944

NM-40A CONDUCTED

ADDED 4-8-63

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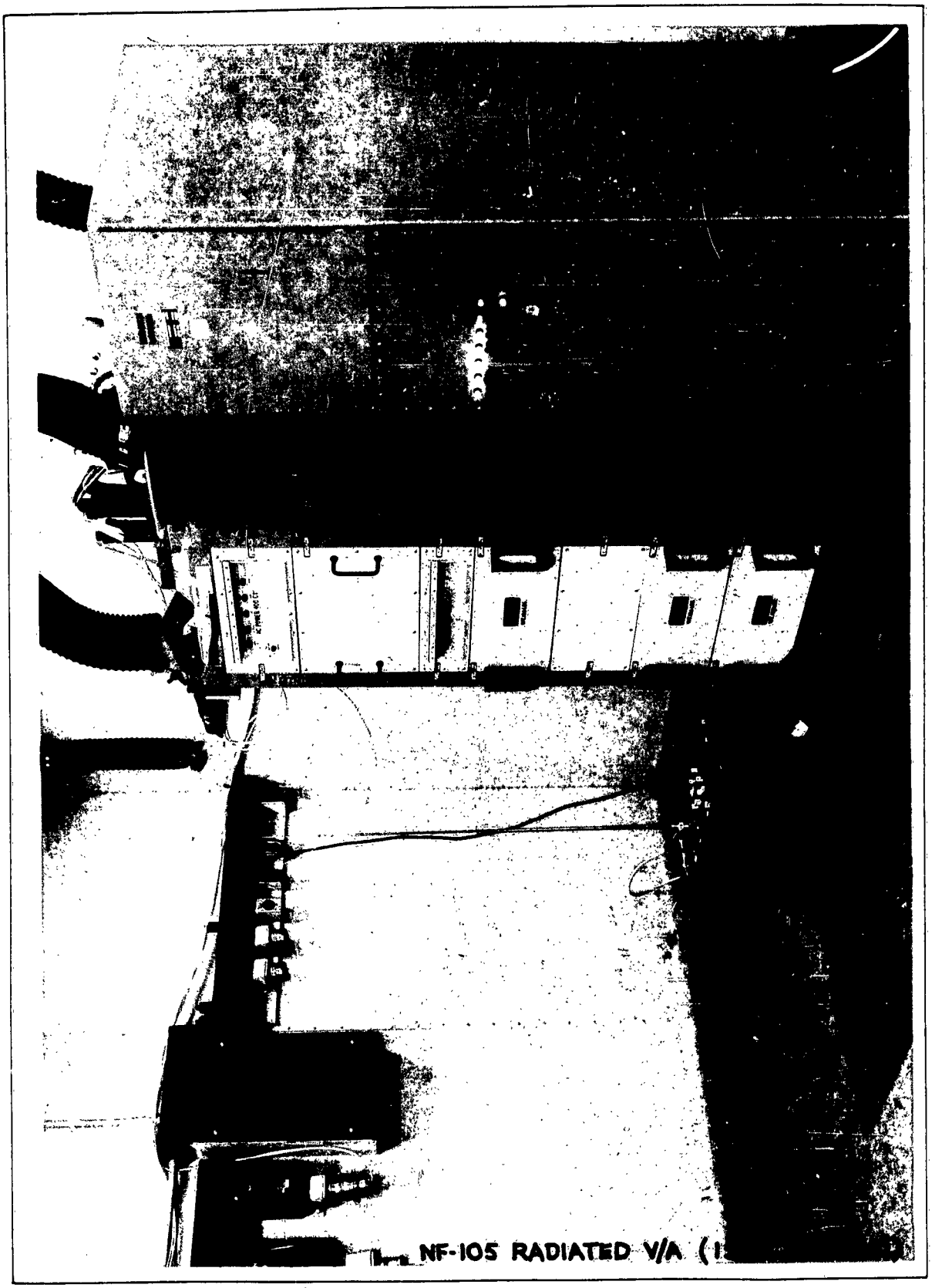
U3 4288 2000

NF-105 CONDUCTED
ADDED 4-8-63

BOEING SEATTLE MM- RFI TEST ON POWER 2A131943
SUPPLY SET D.C., L.F. (FIG. A 1204)
3-1-63



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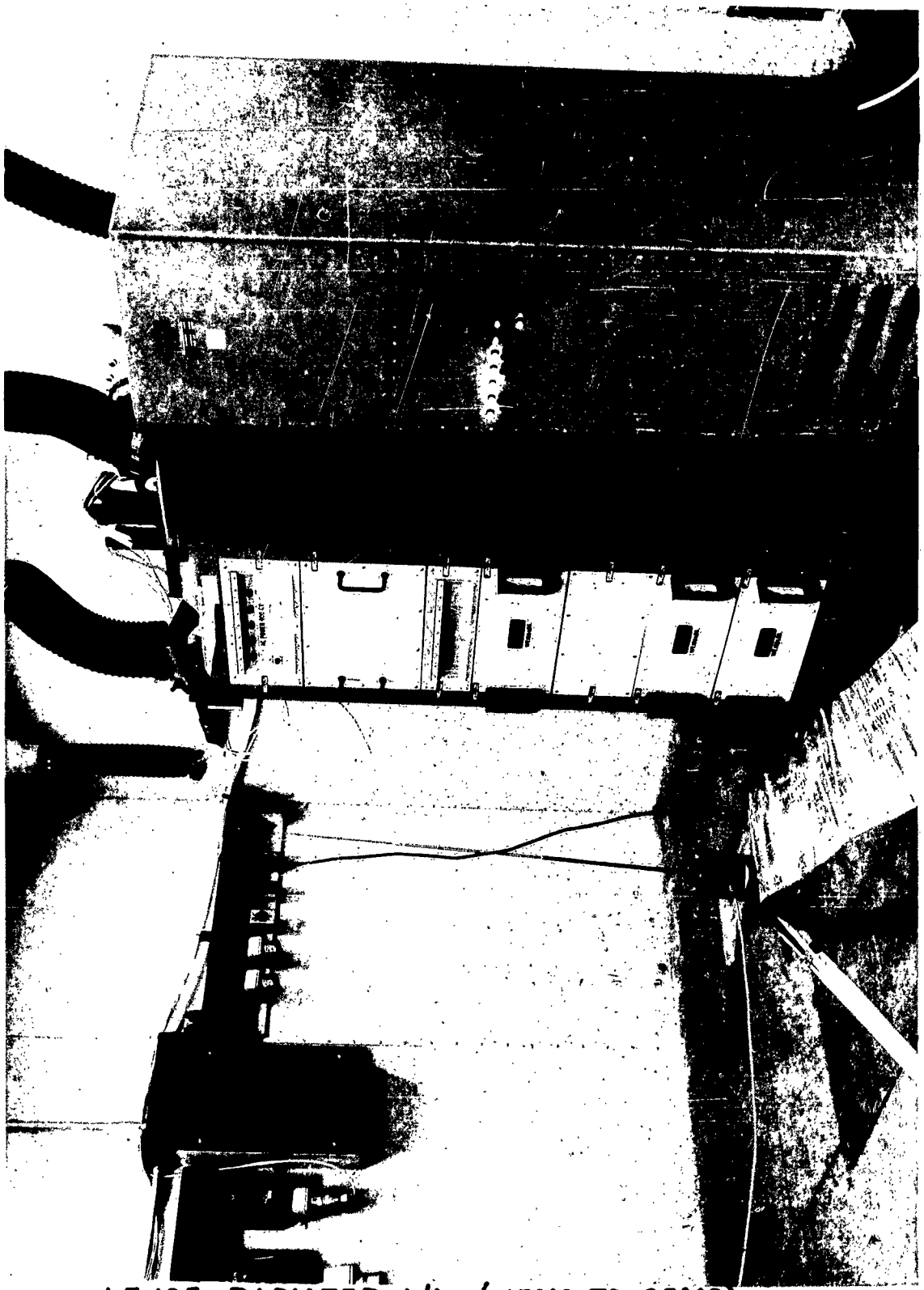
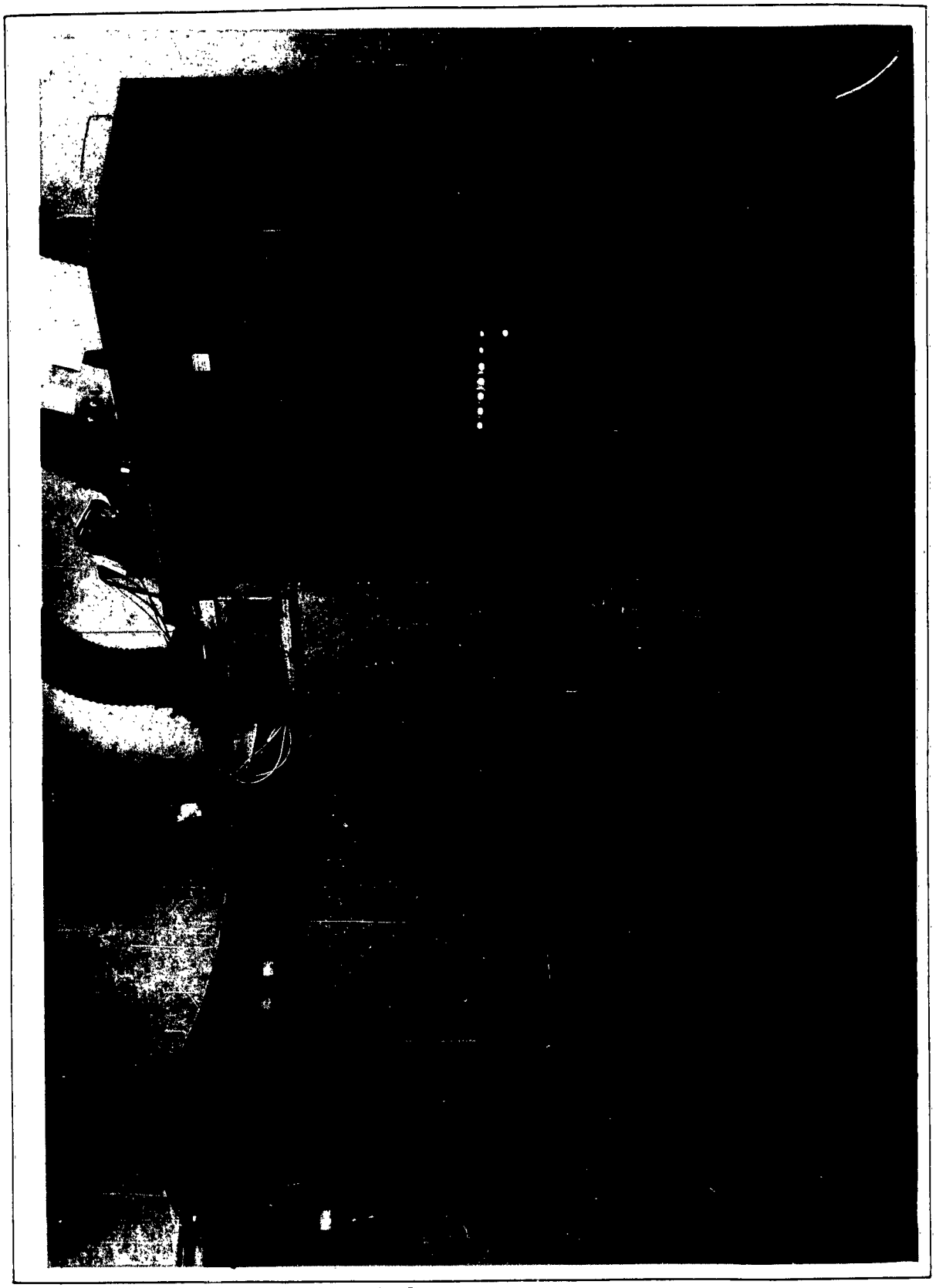
BOEING SEATTLE MM- RFI TEST ON POWER SUPPLY SET D.C., L.F. (FIG. A 1284) 3-1-63 2A131947



NF-105 RADIATED V/A (.15MC TO 25MC)

ADDED 4-8-63

BOEING SEATTLE MM- RFI TEST ON POWER 2A134945
SUPPLY SET D.C., L.F. (FIG. A 1284)
3-1-63

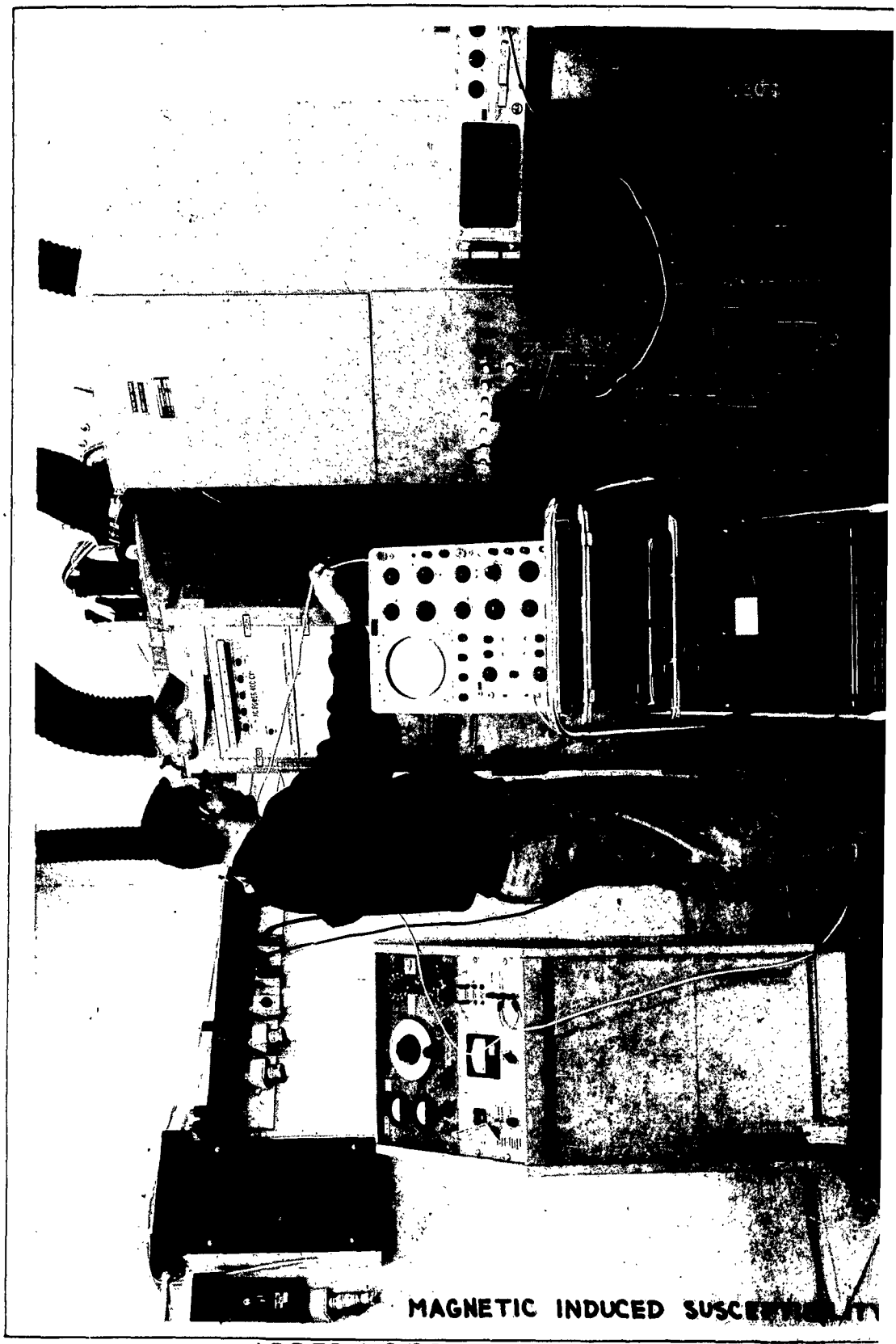


BOEING SEATTLE MM- RPT TEST ON POWER 2A1331918
SUPPLY SET D.C., L.F. (FIG. A 1284)
3-1-63

ADDED 4-8-63

REVISED _____

U3 4288 2000



BOEING SEATTLE NO- RFI TEST ON POWER SUPPLY SET D.C., LF (FIG. A 1284) 3-1-63

MAGNETIC INDUCED SUSCE

ADDED 4-8-63

REVISED _____

U3 4288 2000

APPENDIX II

Test Equipment and Facilities

1.0 **Test Item**

The article under test was the Power Supply Set, DC, LF, Figure A 1284, Serial Number 0004.

2.0 **Load**

Load Simulator, 25-28997

3.0 The electro-interference tests were conducted in a shielded room, Eccoshield, 20' x 16' x 8', room number 24, located in the 9.101 Building.

4.0 **Test Instruments**

	Model No.	Manufacturer	Serial No.	Date of Last Calibration	Calibration Due
4.1	Field Intensity Meters				
	NF-105	Empire Devices	1885	1-14-63	4-22-63
	T-X/NF-105	Empire Devices	1571	2-5-63	5-14-63
	NM-40A	Stoddart	310-4	2-15-63	3-15-63
4.2	Signal Generators				
	IG-115	Empire Devices	449	1-15-63	4-9-63
	606A	Hewlett-Packard	038-01883	2-15-63	5-10-63
	608C	Hewlett-Packard	1552	1-17-63	4-11-63
	612A	Hewlett-Packard	1332	1-28-63	4-22-63
	205AG	Hewlett-Packard	BAC 103375	2-14-63	5-16-63
4.3	Current Probe				
	91550-1	Stoddart	277-90	--	--
	91550-1	Stoddart	245-25	--	--

4.4 **Miscellaneous Equipment**

Model No.	Manufacturer and Type	Serial No.	Date of Last Calibration	Calibration Due
50-W-2	McIntosh Amplifier	3615	12-27-62	6-17-63
545A	Tektronix Oscilloscope	024657	2-27-63	4-10-63
C-A	Tektronix Plug In Unit	012400	2-1-63	3-1-63
803	J. Fluke VT/VM	2557	2-26-63	3-26-63
481	Non Linear Sys. Digital Voltmeter	11.2729	2-15-63	3-14-63
744	AC Ammeter 30 Amp Shunt	BACX105085	10-19-62	4-12-63

Added 4-8-63

APPENDIX III

Sample Calculations

Broadband radiated measurements with NF-105 (Rod Antenna) (15 KC to 25 MC)

Frequency of Measurement - 105 KC

Antenna Factor	29 DB
Cable Loss	0 DB
Impulse Generator Level (substitution method)	32 DB/uV/MC
Total antenna induced DB above one microvolt/MC BW	61 DB/uV/MC

Broadband radiated measurements with NF-105 (Dipole Antenna) (25 to 400 MC)

Frequency of Measurement - 100 MC

Antenna Factor	8 DB
Cable Loss	0 DB
Impulse Generator Level (substitution method)	82 DB/uV/MC
Total antenna induced DB above one microvolt/MC BW	90 DB/uV/MC

Broadband current probe conducted measurements with NM-40A

Frequency of Measurement (wide band position 30 cps - 20 KC)

Meter Reading	113 DB/uA/20 KC
Cable Loss	0 DB
Corrected total DB above one microampere per 20 KC bandwidth	113 DB

Broadband current probe conducted measurement with NF-105 (15 KC to 25 MC)

Frequency of Measurement - 15 KC

Cable Loss	0 DB
Current Probe Factor	+15 DB/ohm
Impulse Generator Level (substitution method)	146 DB/uV/MC
Total DB above one microampere/MC BW	161 DB/uA/MC

CW current probe conducted measurement with NF-105 (15 KC to 25 MC)

Frequency of Measurement - 60 KC

Cable Loss	0 DB
Current Probe Factor	+3 DB/ohm
Meter Reading (DB scale)	72 DB/uV
Total DB above one microampere	75 DB/uA

Added 4-8-63

APPENDIX IV

Plotted Test Data

1.0 **Radiated Interference**

Frequency	Mode	Test Point	Page
15 KC - 400 MC	TH		30
	AMB		31
	1		32
	2		33
15 KC - 400 MC	3		34

2.0 **Conducted Interference**

2.1 **Broadband**

Frequency	Mode	Test Point	Page
30 cps - 15 KC	TH		36
15 KC - 25 MC	TH		35
30 cps - 15 KC	1	J09-1	36
		J09-2	36
		J09-3	36
	1	J09-4	36
	2	J09-1	36
		J09-2	36
		J09-3	36
		J09-4	36
		TP-1	36
	2	TP-2	36
	3	J09-1	36
		J09-2	36
		J09-3	36
		J09-4	36
		TP-2	36
		TP-3	36
		TP-4	36
30 cps - 15 KC	3	TP-5	36
15 KC - 25 MC	1	J09-1	37
		J09-2	38
		J09-3	39
	1	J09-4	40
	2	J09-1	41
		J09-2	42
		J09-3	43
		J09-4	44
		TP-1	45
15 KC - 25 MC	2	TP-2	46

Added 4-8-63

APPENDIX IV (continued)

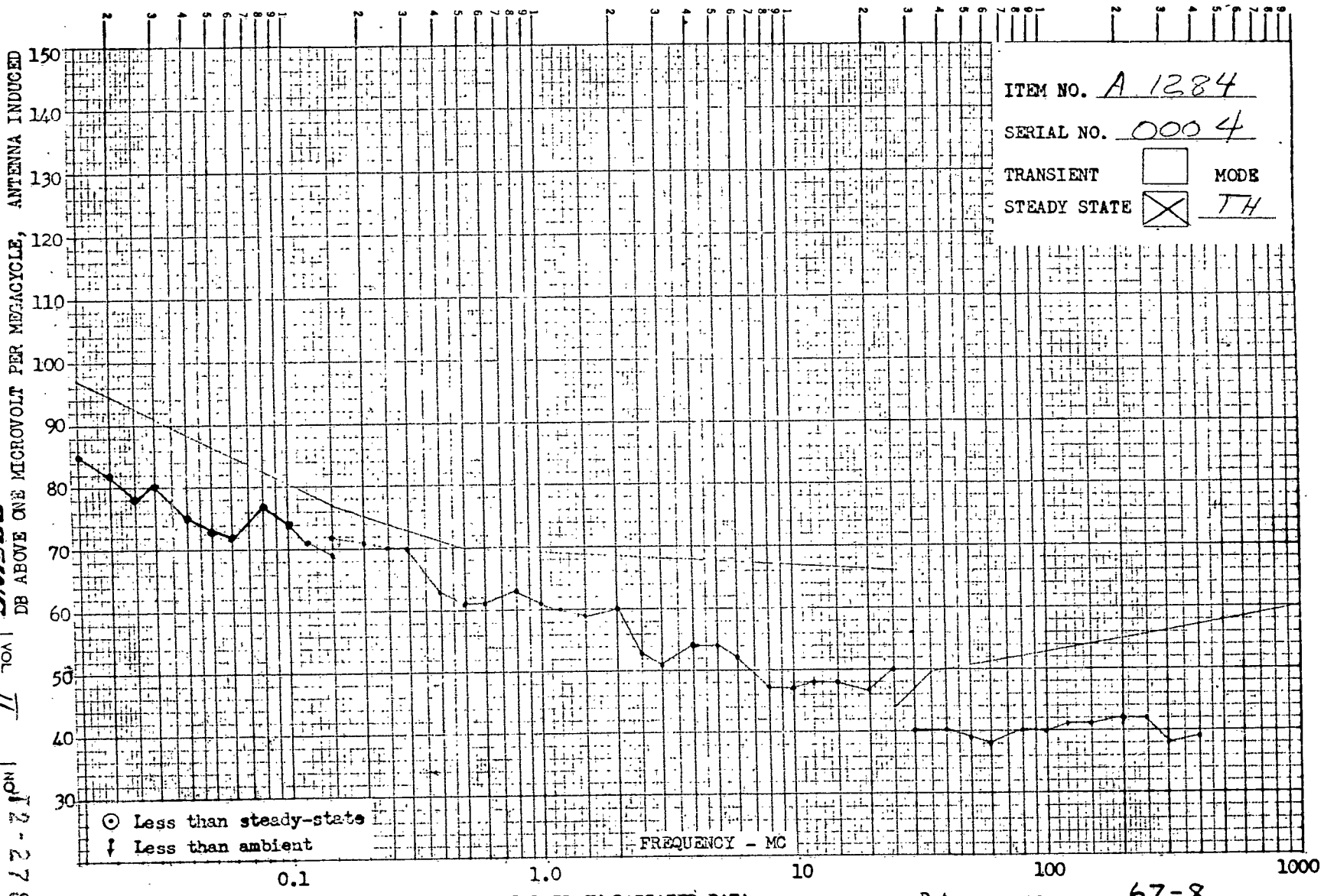
2.1 **Broadband** (continued)

Frequency	Mode	Test Point	Page
15 KC - 25 MC	3	J09-1	47
		J09-2	48
		J09-3	49
		J09-4	50
		TP-2	51
		TP-3	52
		TP-4	53
15 KC - 25 MC	3	TP-5	54

2.2 **CW**

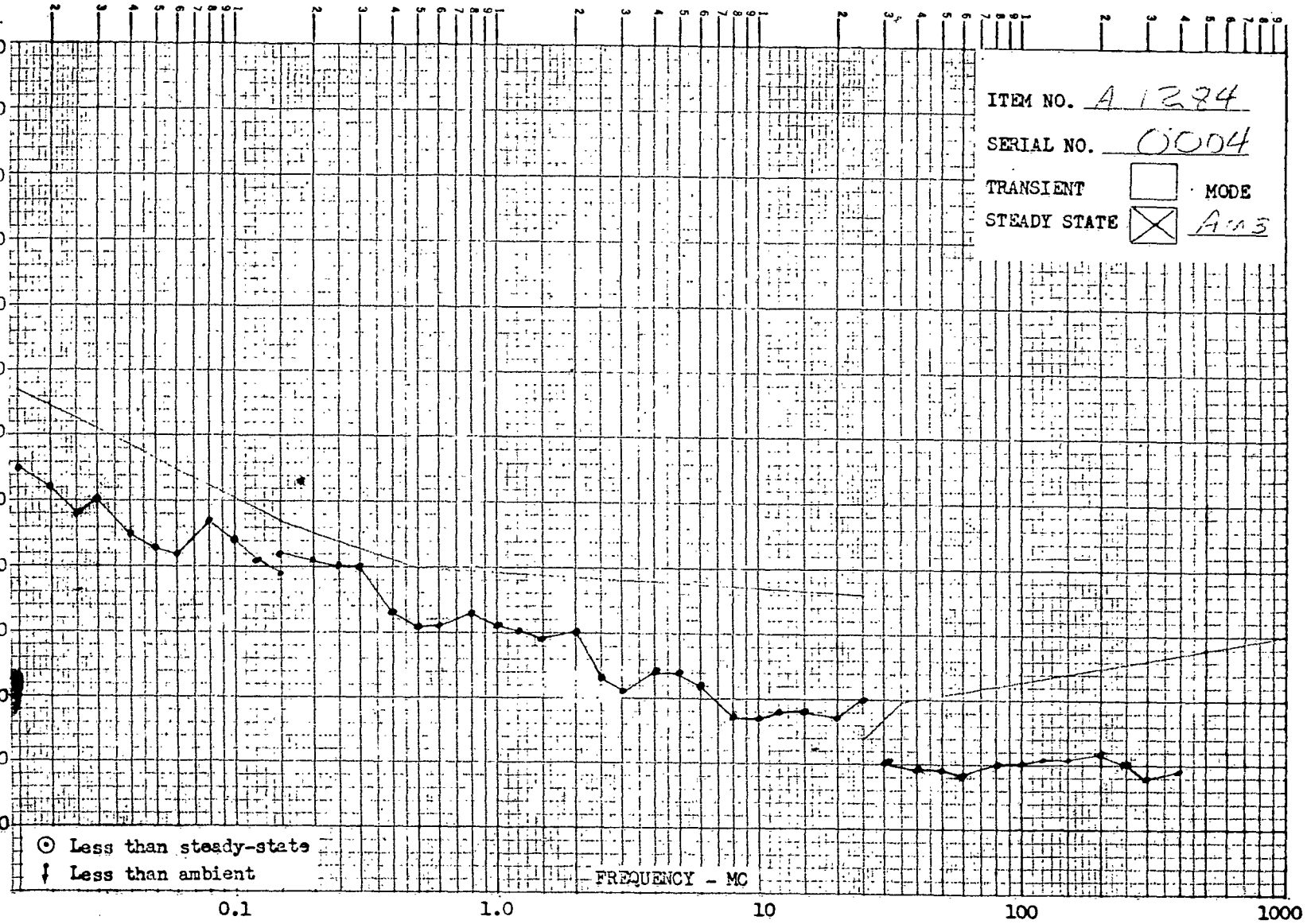
Frequency	Mode	Test Point	Page
15 KC - 25 MC	1	J09-1	55
		J09-2	56
		J09-3	57
	1	J09-4	58
	2	J09-1	59
		J09-2	60
		J09-3	61
		J09-4	62
		TP-1	63
15 KC - 25 MC	2	TP-2	64

Added 4-8-63



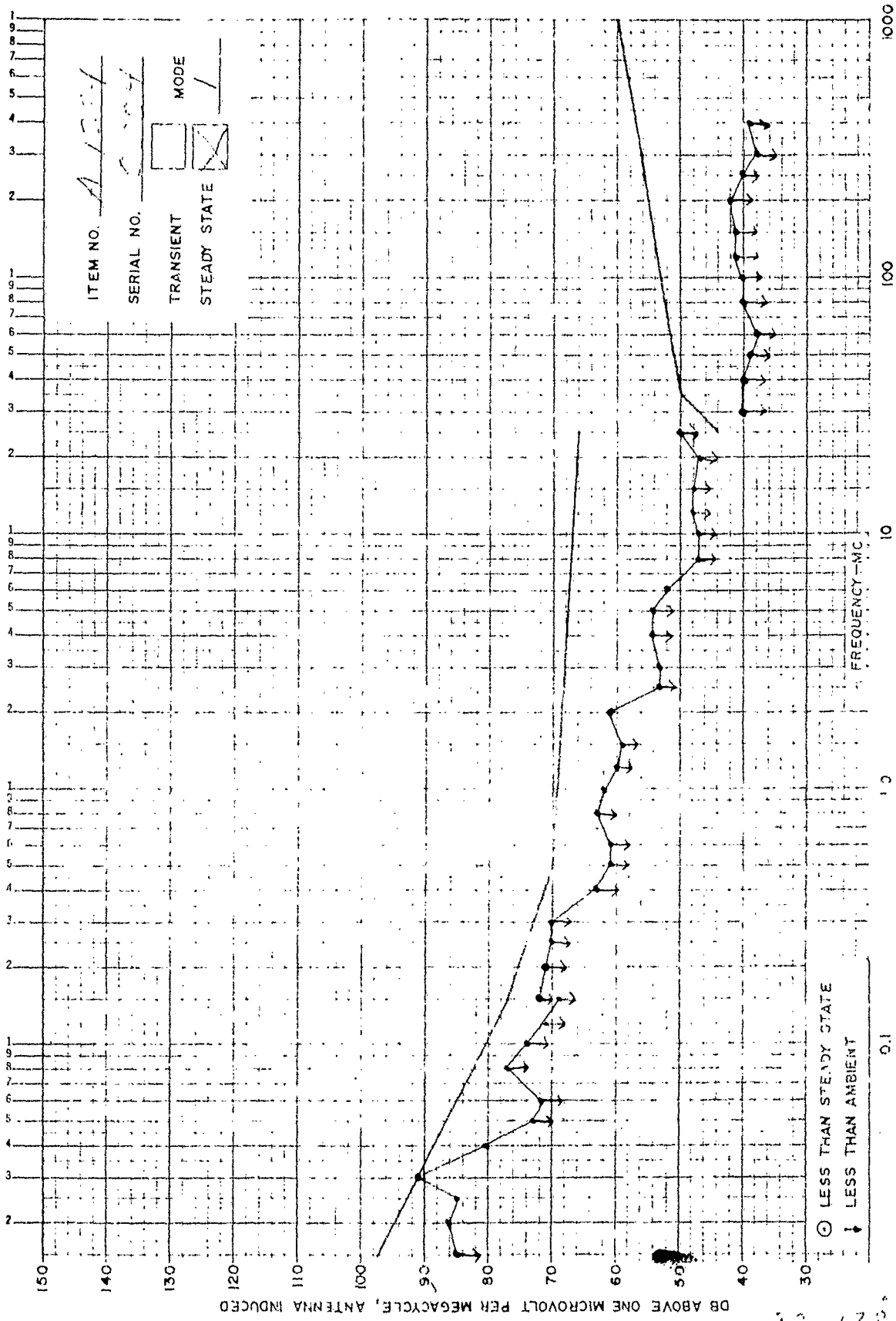
BROADBAND AND PULSED CW RADIATED DATA

Data on page 67-8



BROADBAND AND PULSED CW RADIATED DATA

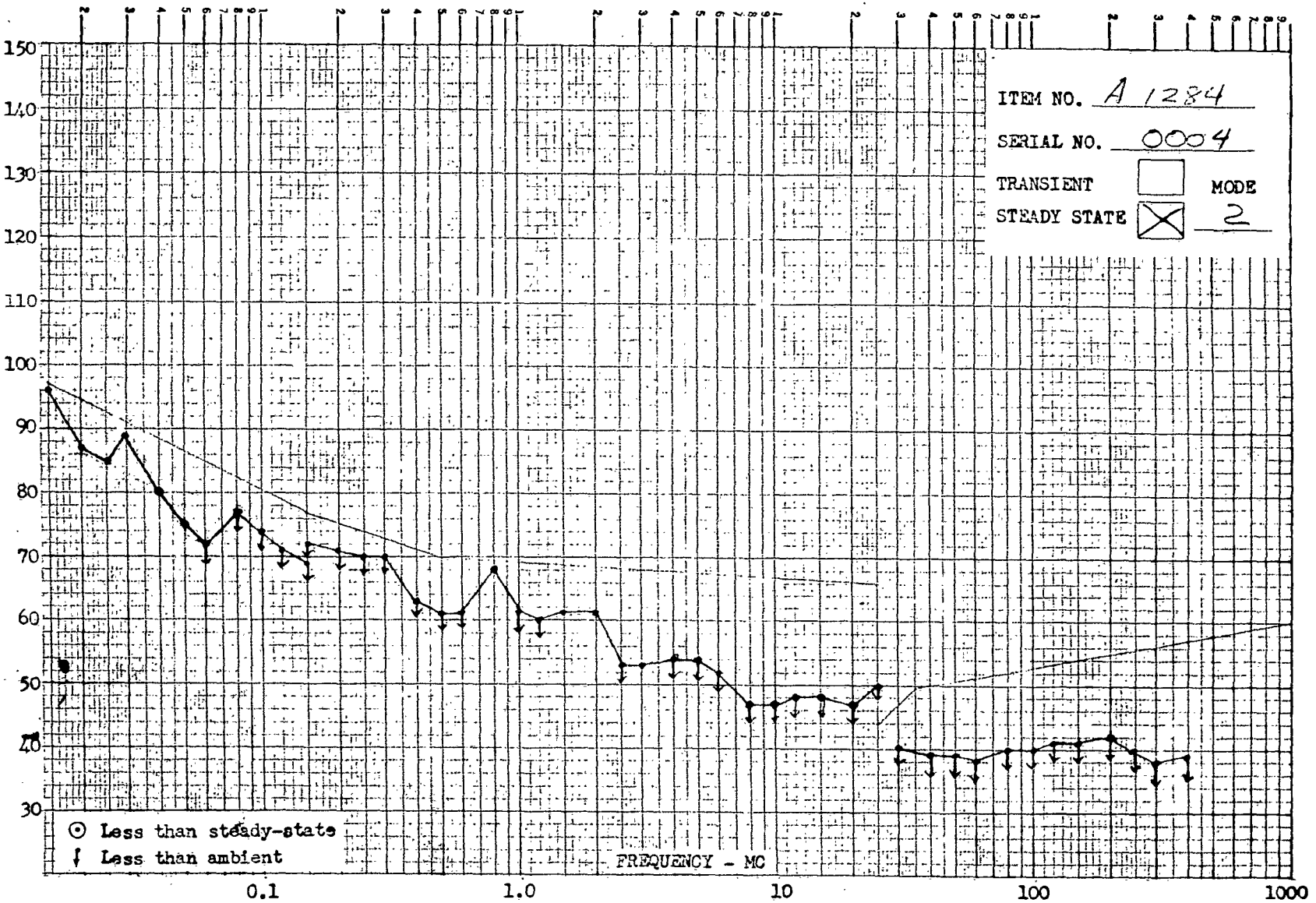
Data on page 69-70



BROADBAND AND PULSED CW RADIATED DATA

DATA ON PAGE 71-2

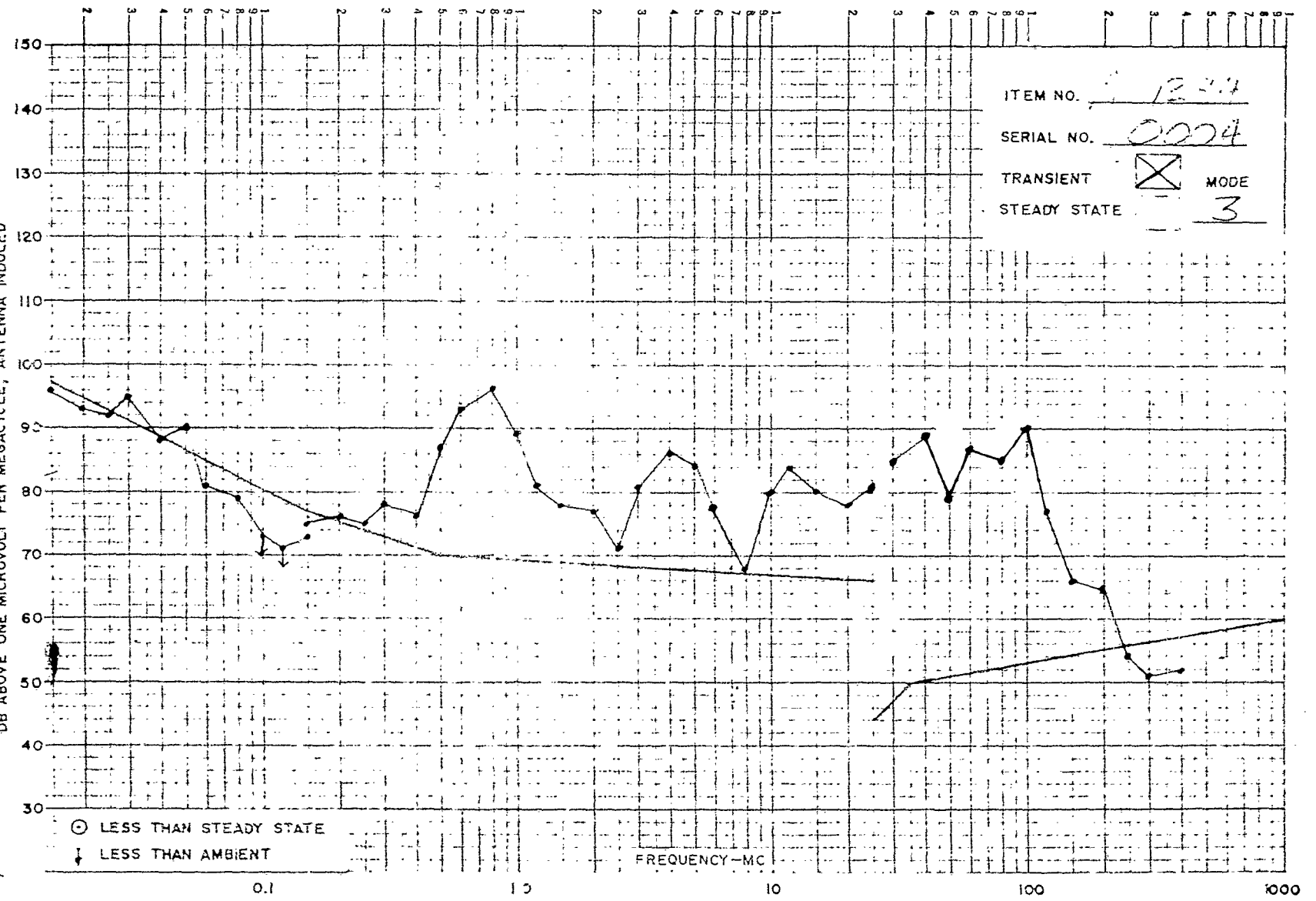
APR 8 1963



BROADBAND AND PULSED CW RADIATED DATA

Data on page 73-4

2-5493-0-3
APR 8 1963
BOEING
VOL. II
SEC. III
NO. 2-2786
PAGE 33



BROADBAND AND PULSED CW RADIATED DATA

DATA ON PAGE 75-6

7-8493-0-3
APR 8 1963
BOEING
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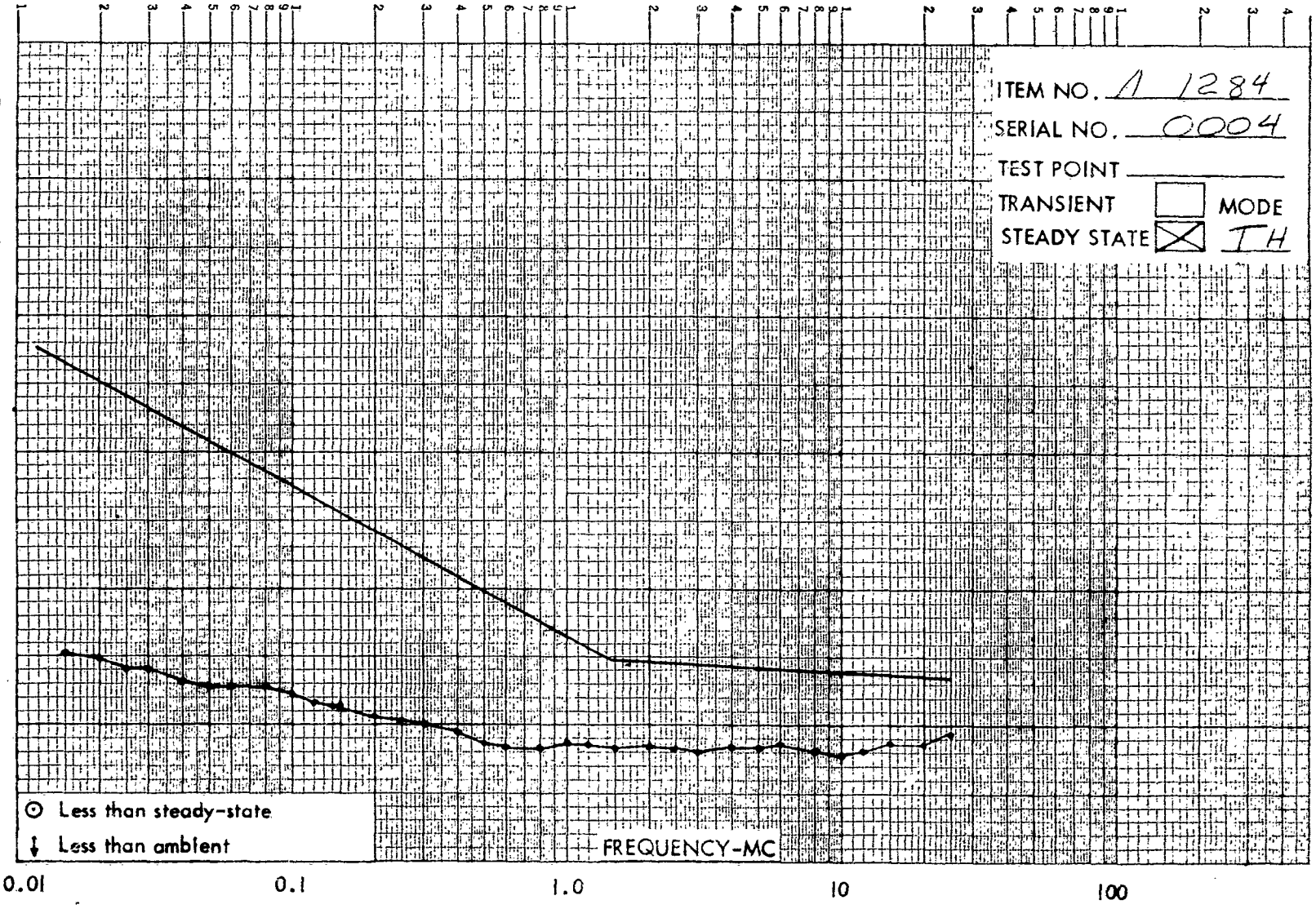
SEC. II
NO.
PAGE 34



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 78-9

2-5493-0-5
APR 8 1963
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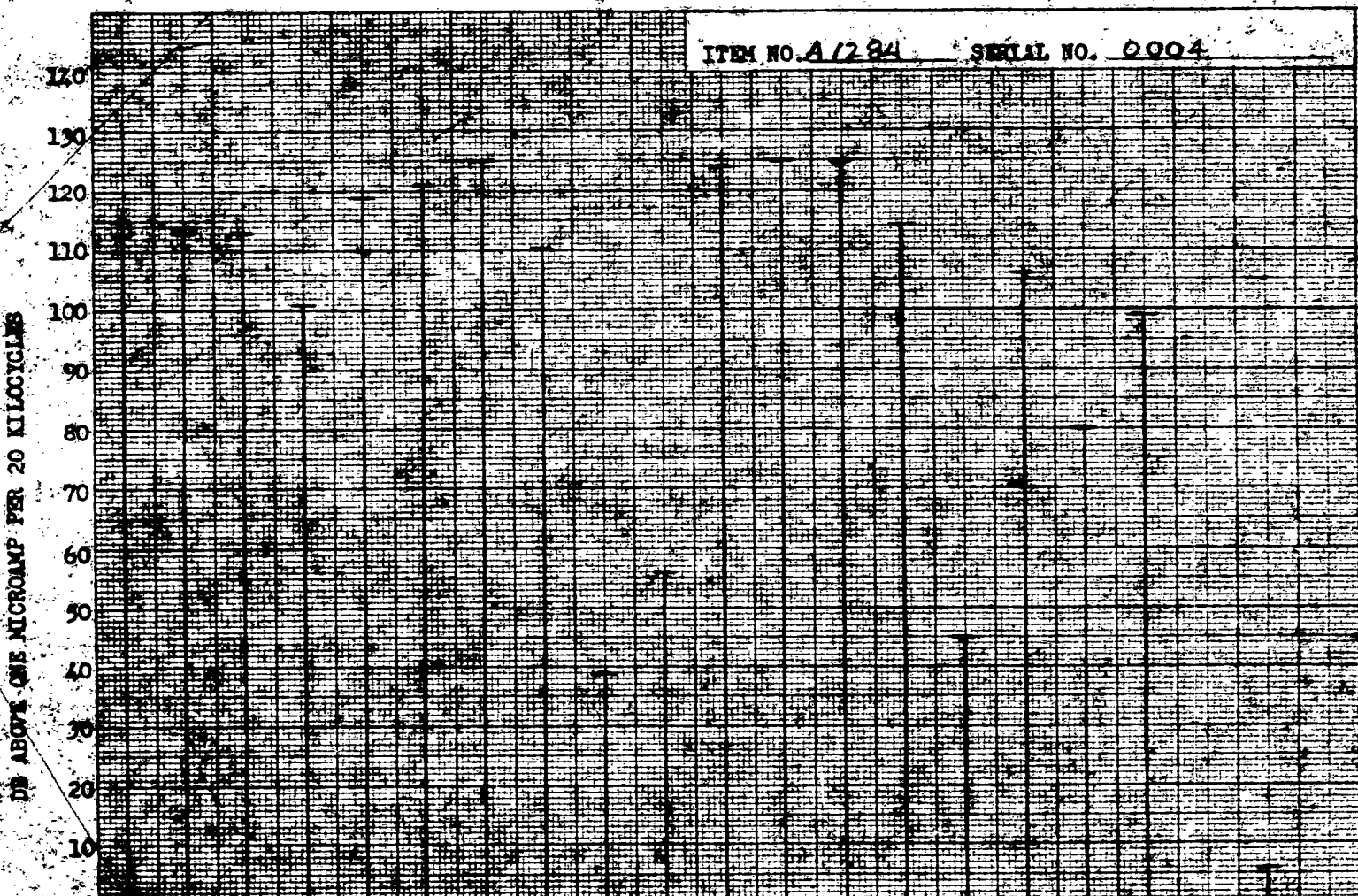
SEC. III
NO T2-2786
PAGE 35

NM - 40 MIDBAND

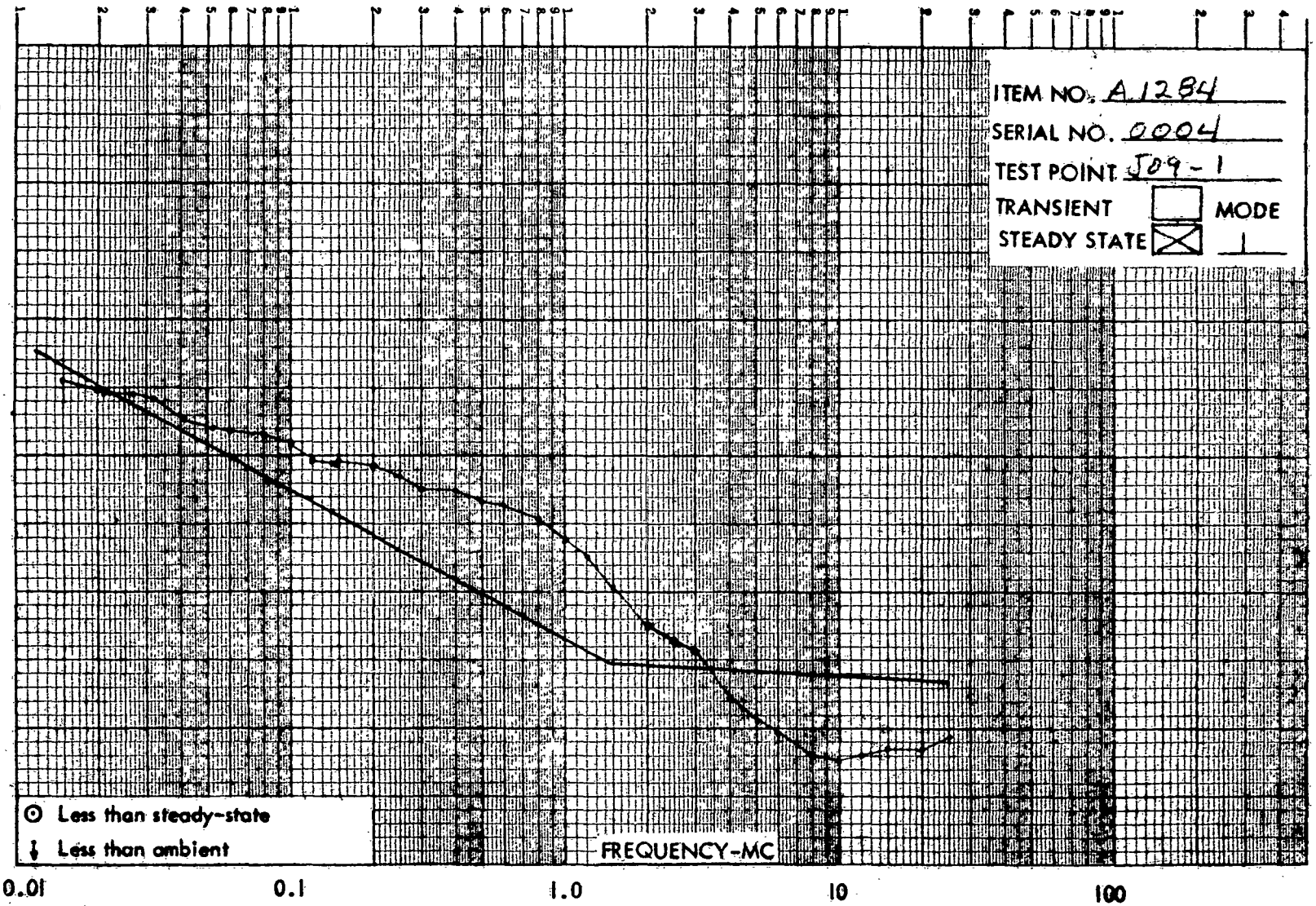
BROADBAND & PULSED CW CONDUCTED DATA USING CURRENT PROBE

ITEM NO. A1284 SERIAL NO. 0004



MODE	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3		TH
TYPE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	T	S	T	T		
TEST POINT	J09-1	J09-2	J09-3	J09-4	J09-1	J09-2	J09-3	J09-4	TP-1	TP-2	J09-1	J09-2	J09-3	J09-4	TP-2	TP-3	TP-4	TP-5		

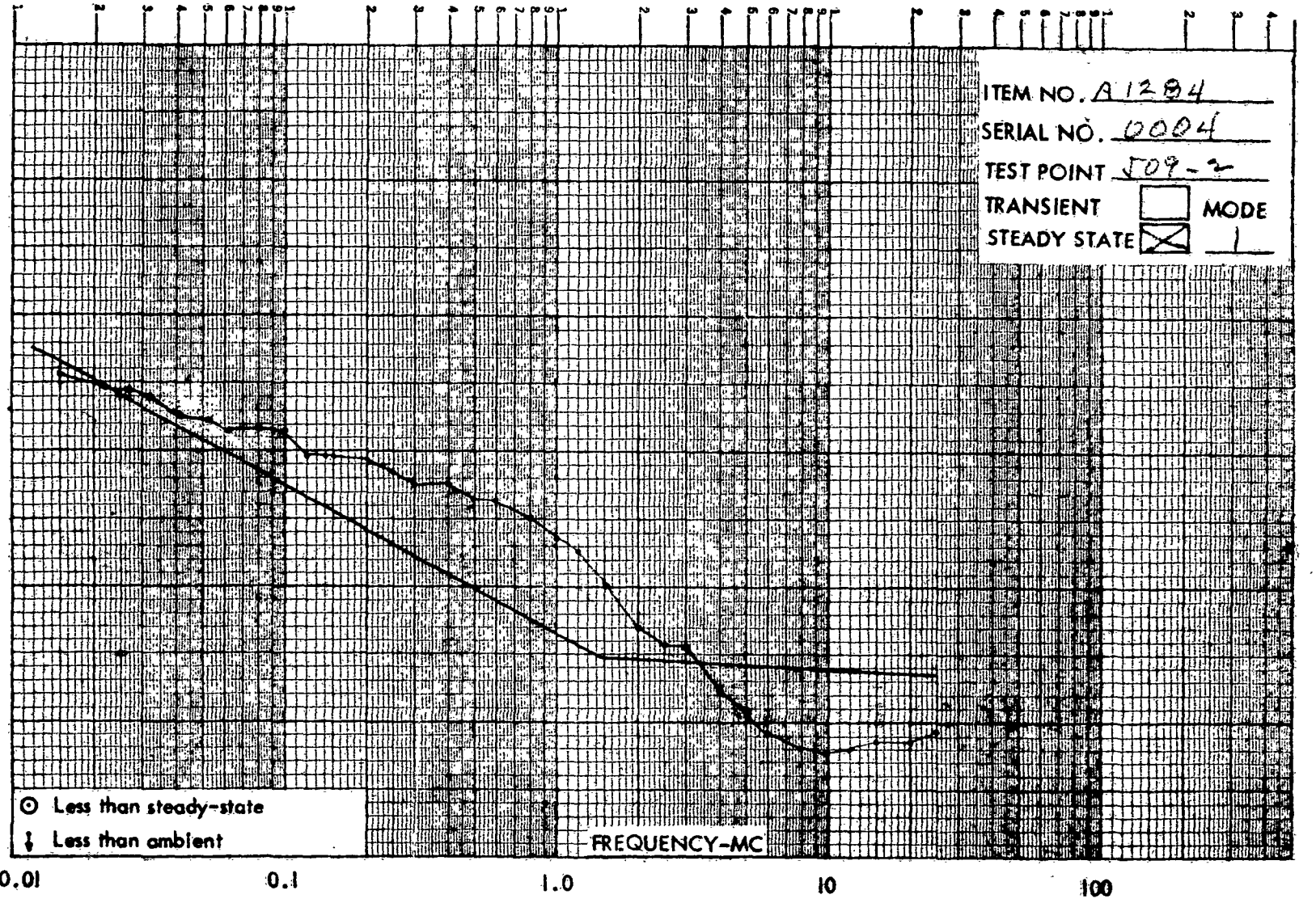
Data on page 77, 80 TYPE: Transient (T), Steady State (S), Ambient (A), Threshold (TH)



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 81-2

2-5493-0-5
APR 8 1963
BOEING
VOL. II
SEC. III
NO. T2-2786
PAGE 37



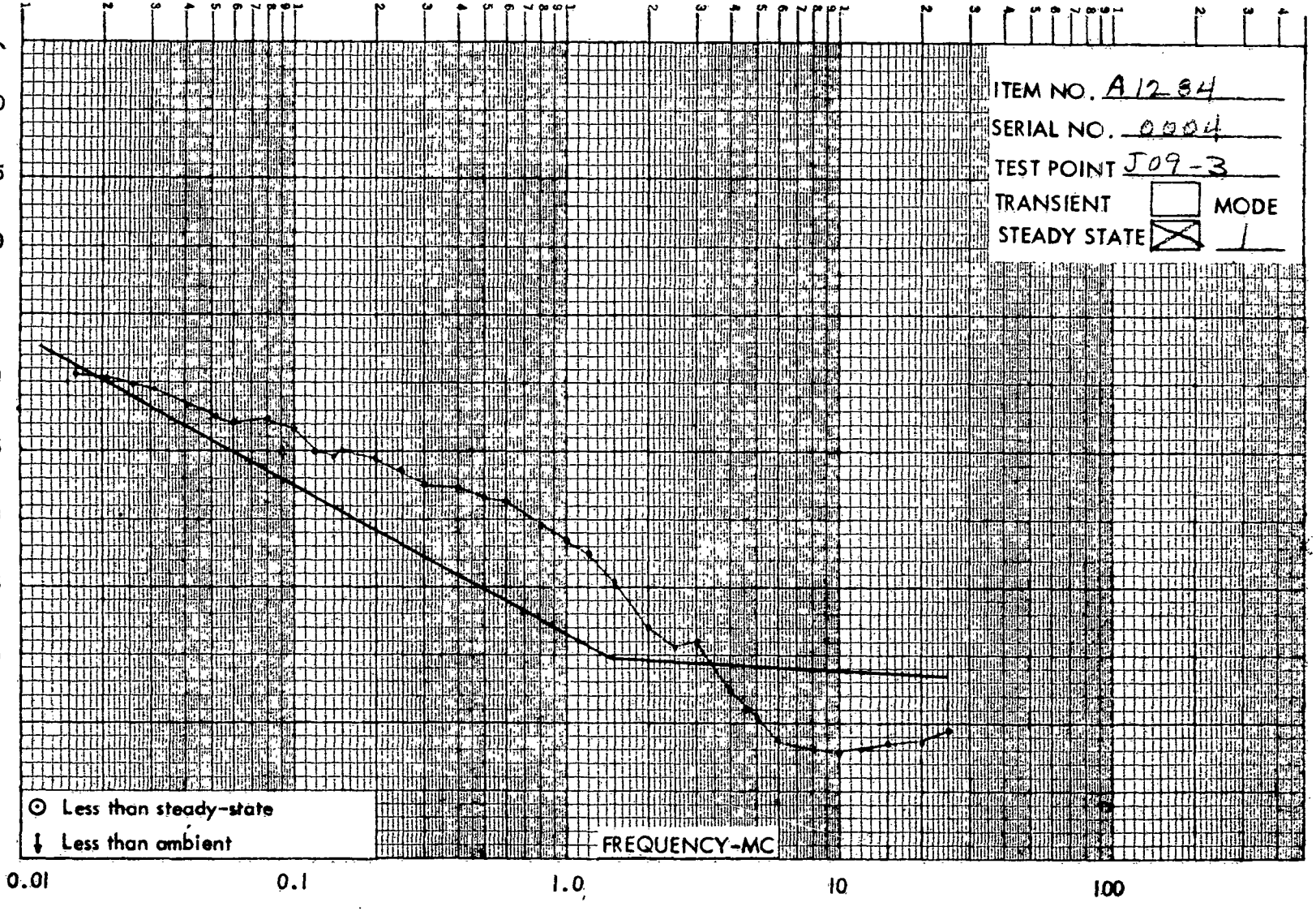
BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 83-4

2-5493-0-5

APR 8 1963

BOEING VOL. II SEC. III NO. T2-2786 PAGE 38



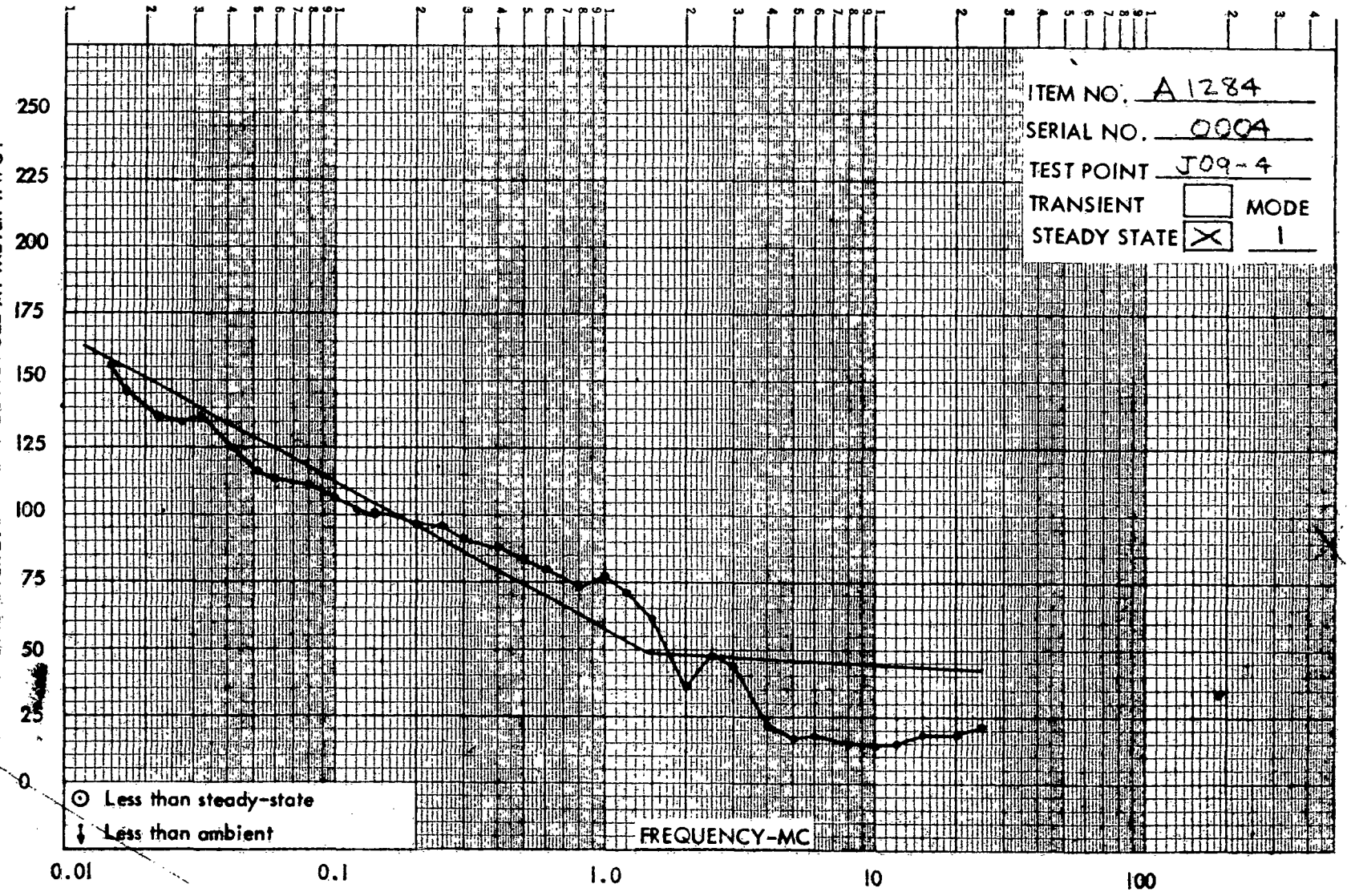
BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 85-6

2-5493-0-5

APR 8 1963

BOEING | VOL. II | NO. D2-2786
SEC. III | PAGE 39



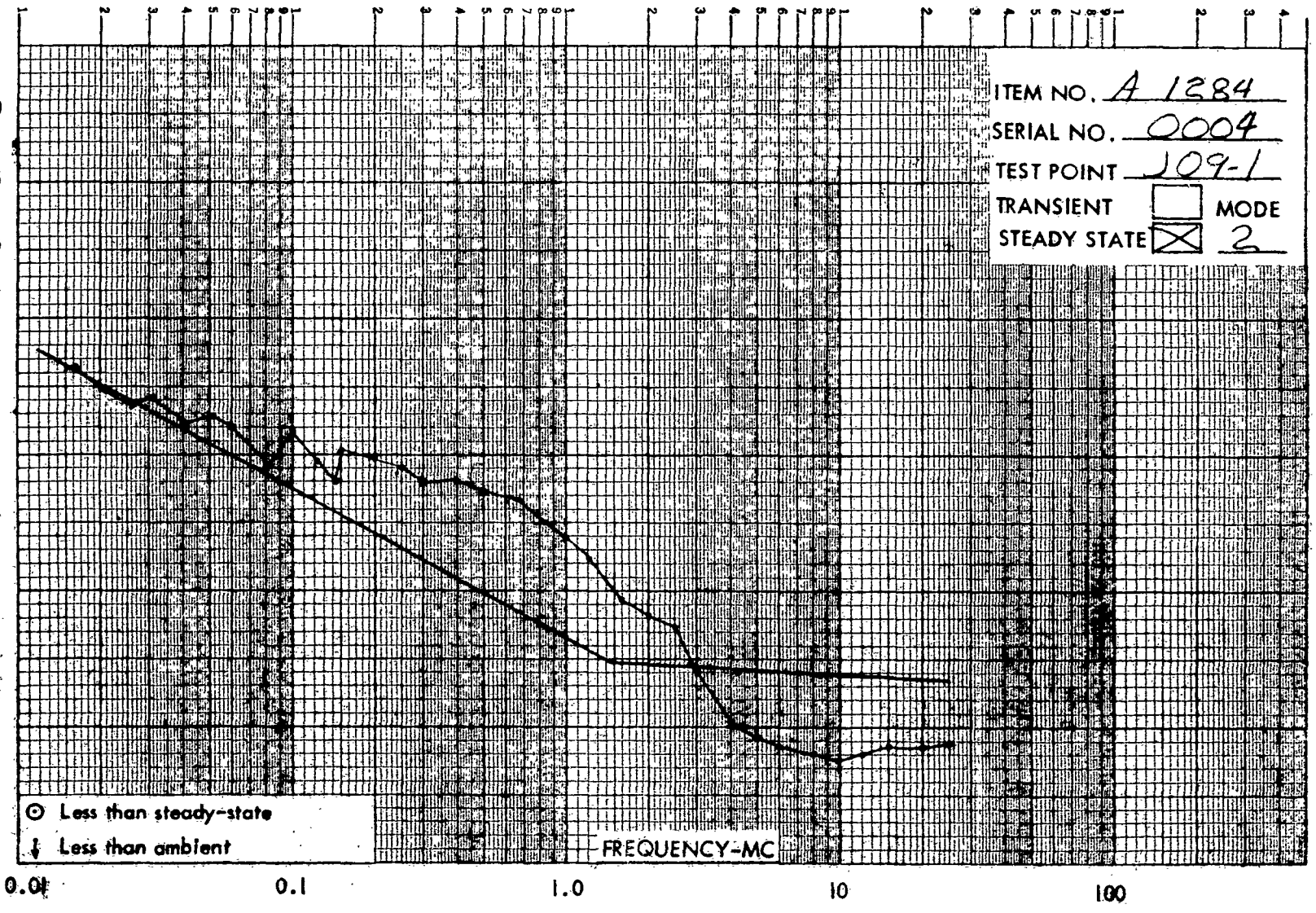
BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 87-8

2-5493-0-5

APR 8 1963

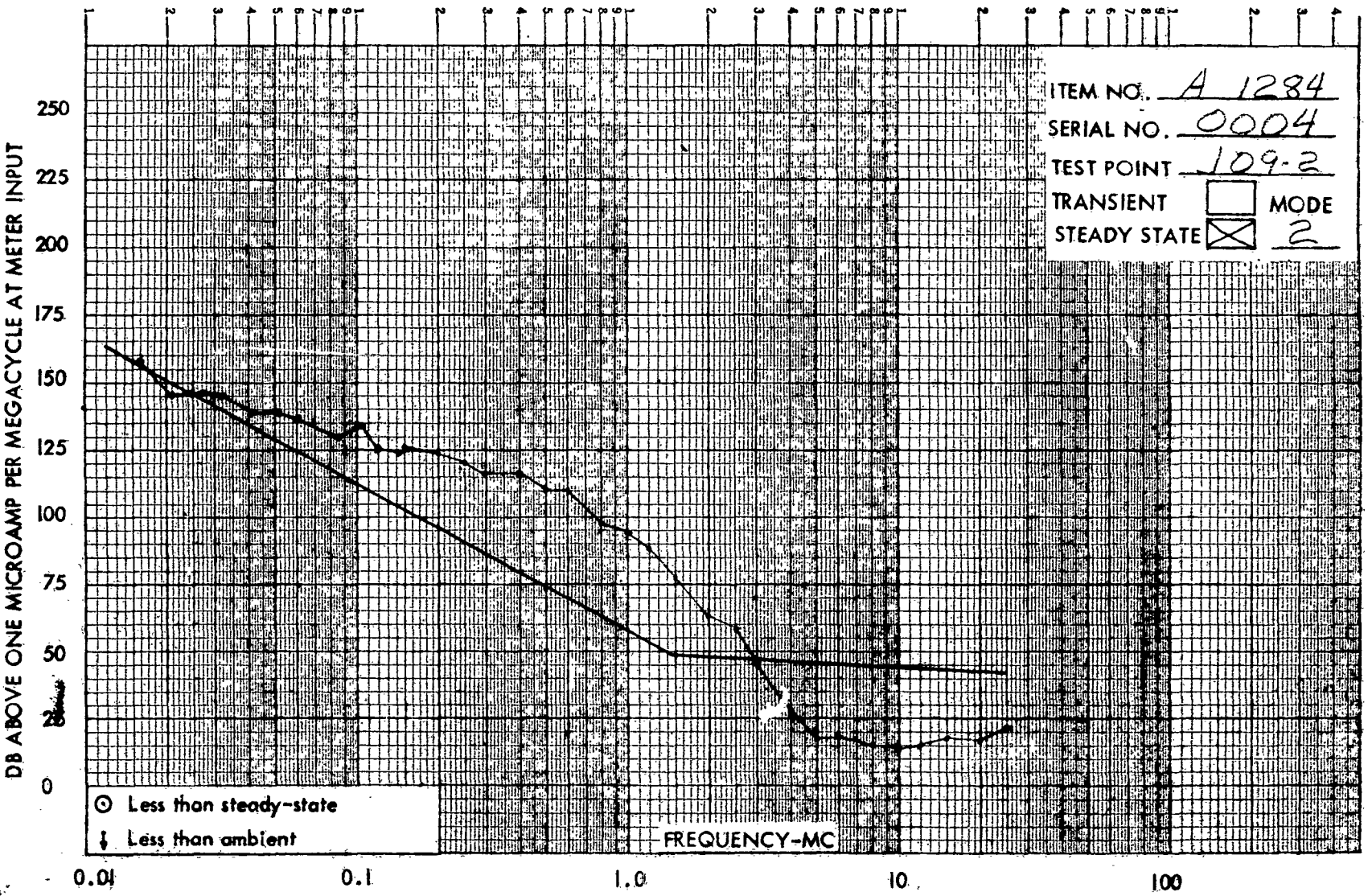
BOEING VOL. II SEC. IV NO. T2-2786 PAGE 40



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 89-90

2-5493-0-5
APR 8 1963
BOEING
SEC II VOL II NO T2-2786 PAGE 4



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

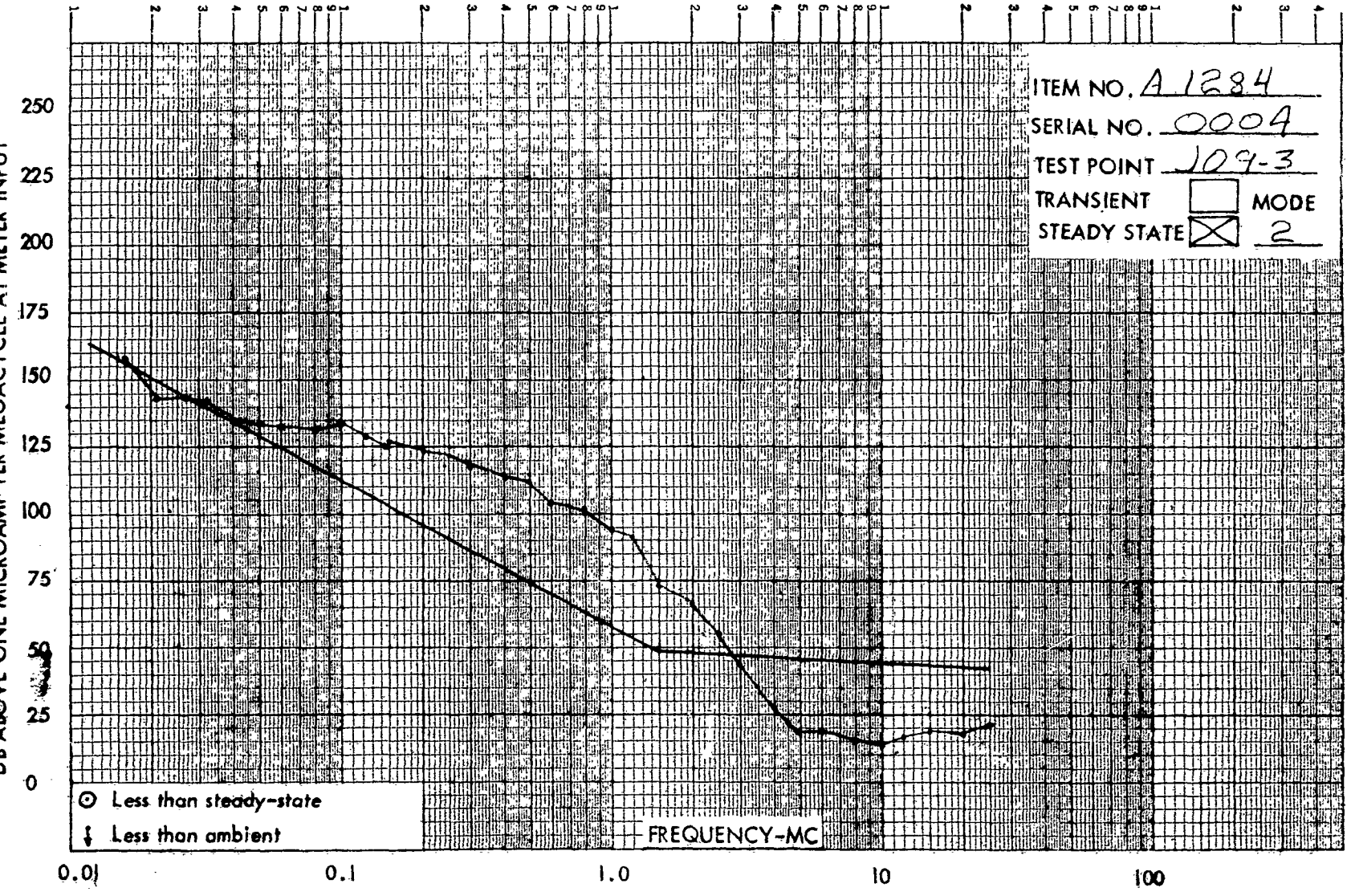
Data on page 91-2

2-5493-0-5

APR 8 1963

BOEING VOL. II NO. T2-2786

SEC. III PAGE 42



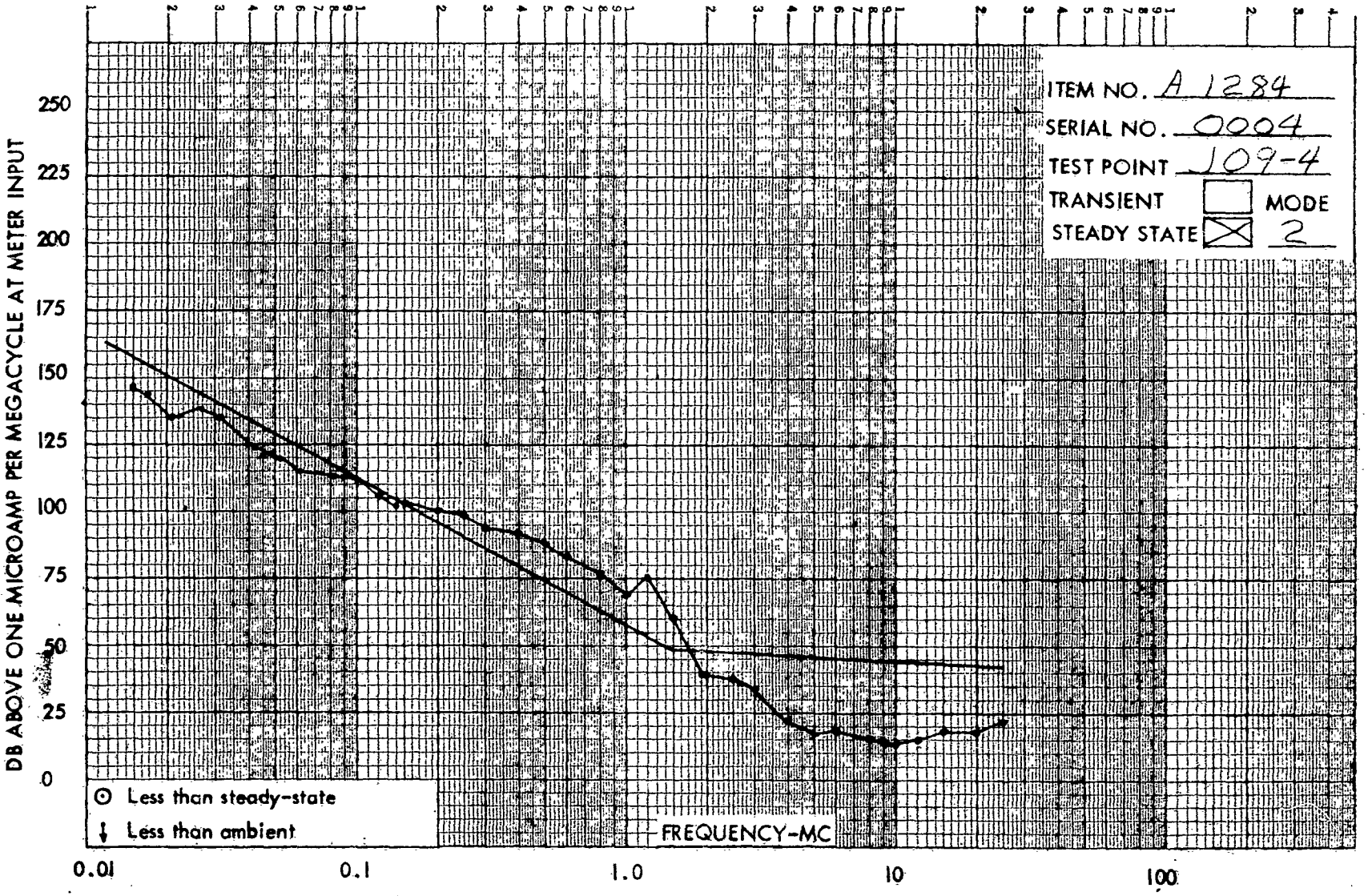
BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 93-4

2-5493-0-5

APR 8 1963

BOEING VOL. II SEC. III NO. 42-2786 PAGE 43

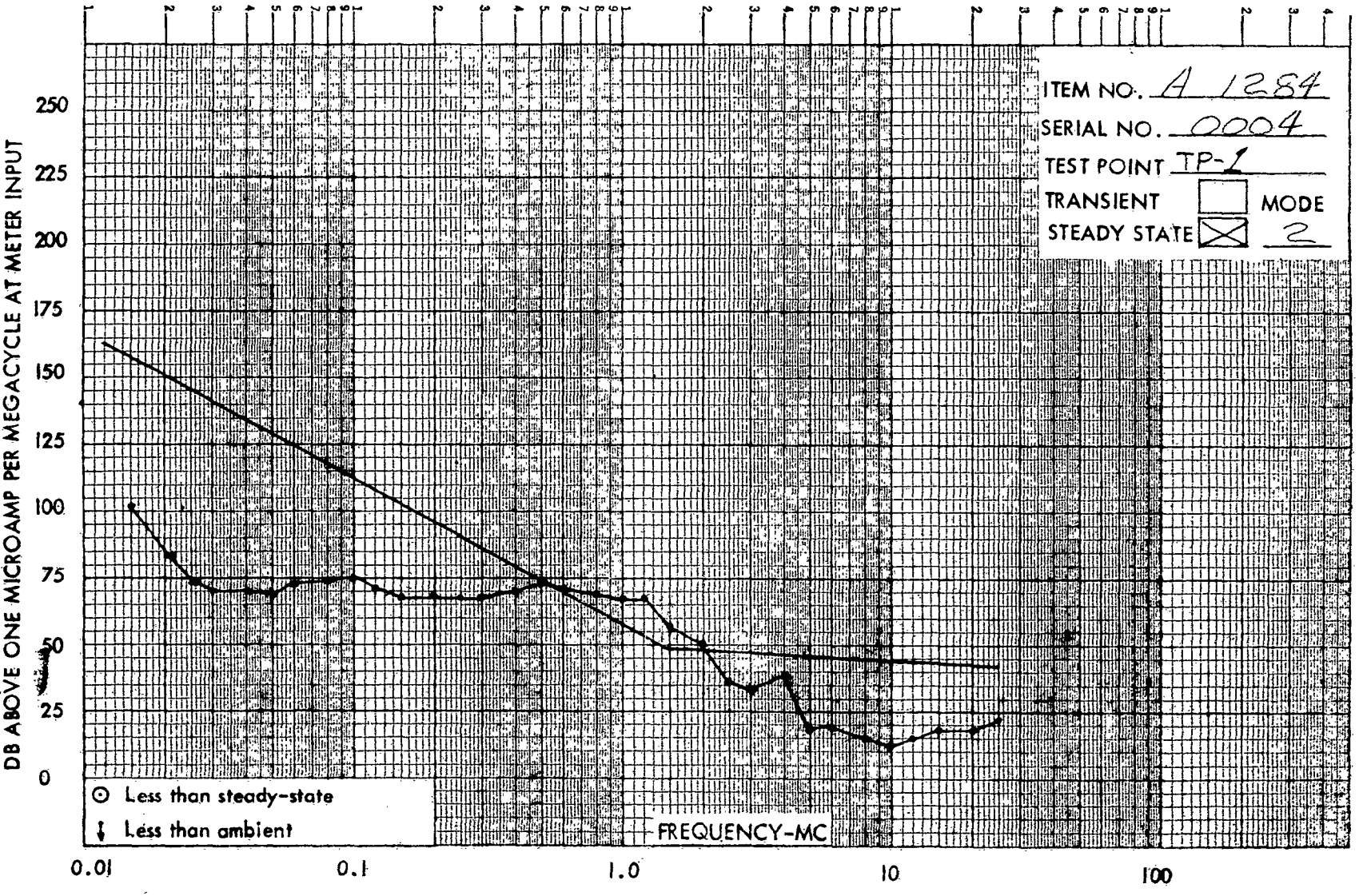


BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 95-6

2-5493-0-5 APR 8 1963

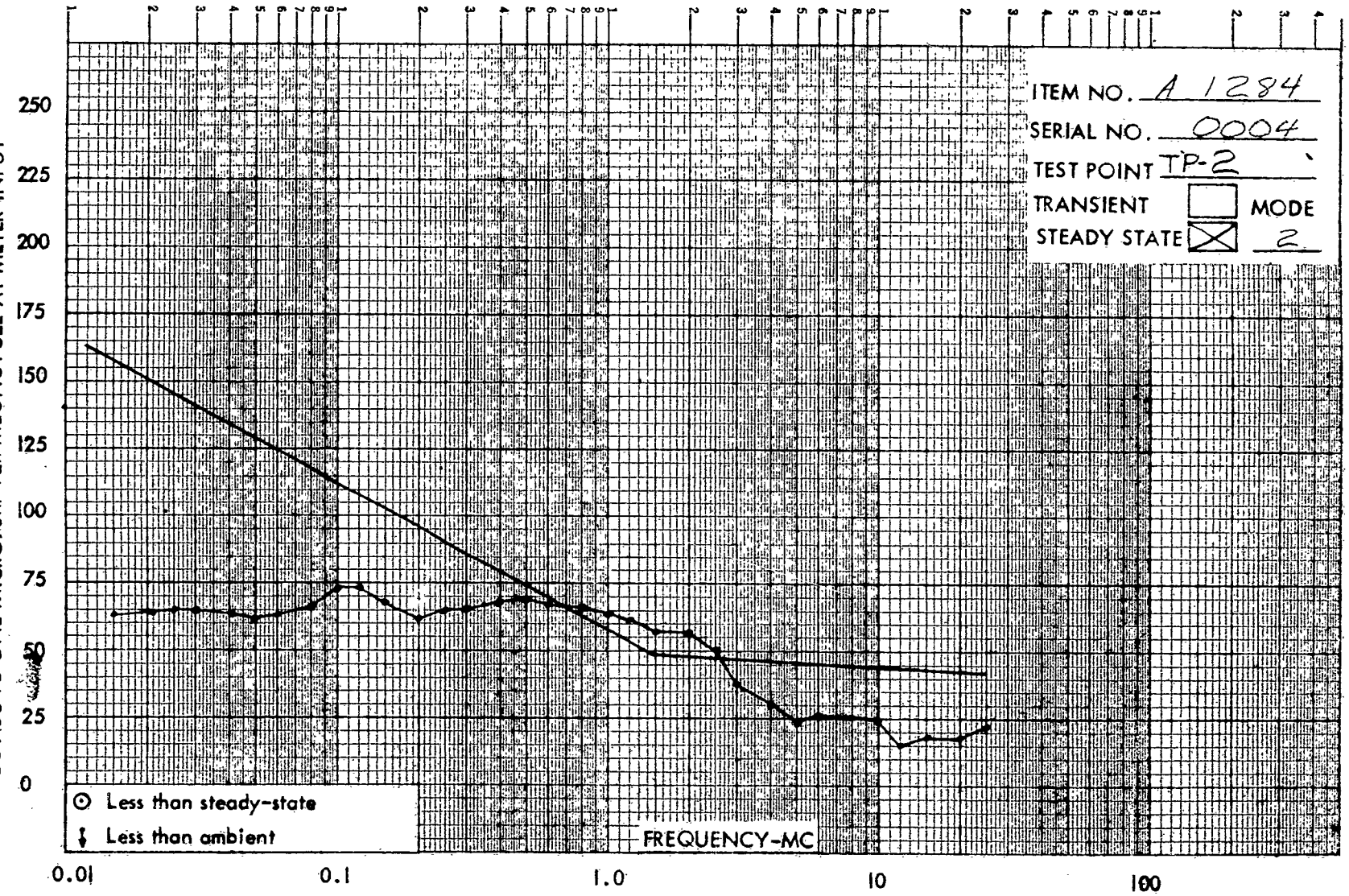
BOEING VOL. II SEC. III NO. T2-2786 PAGE 44



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 97-8

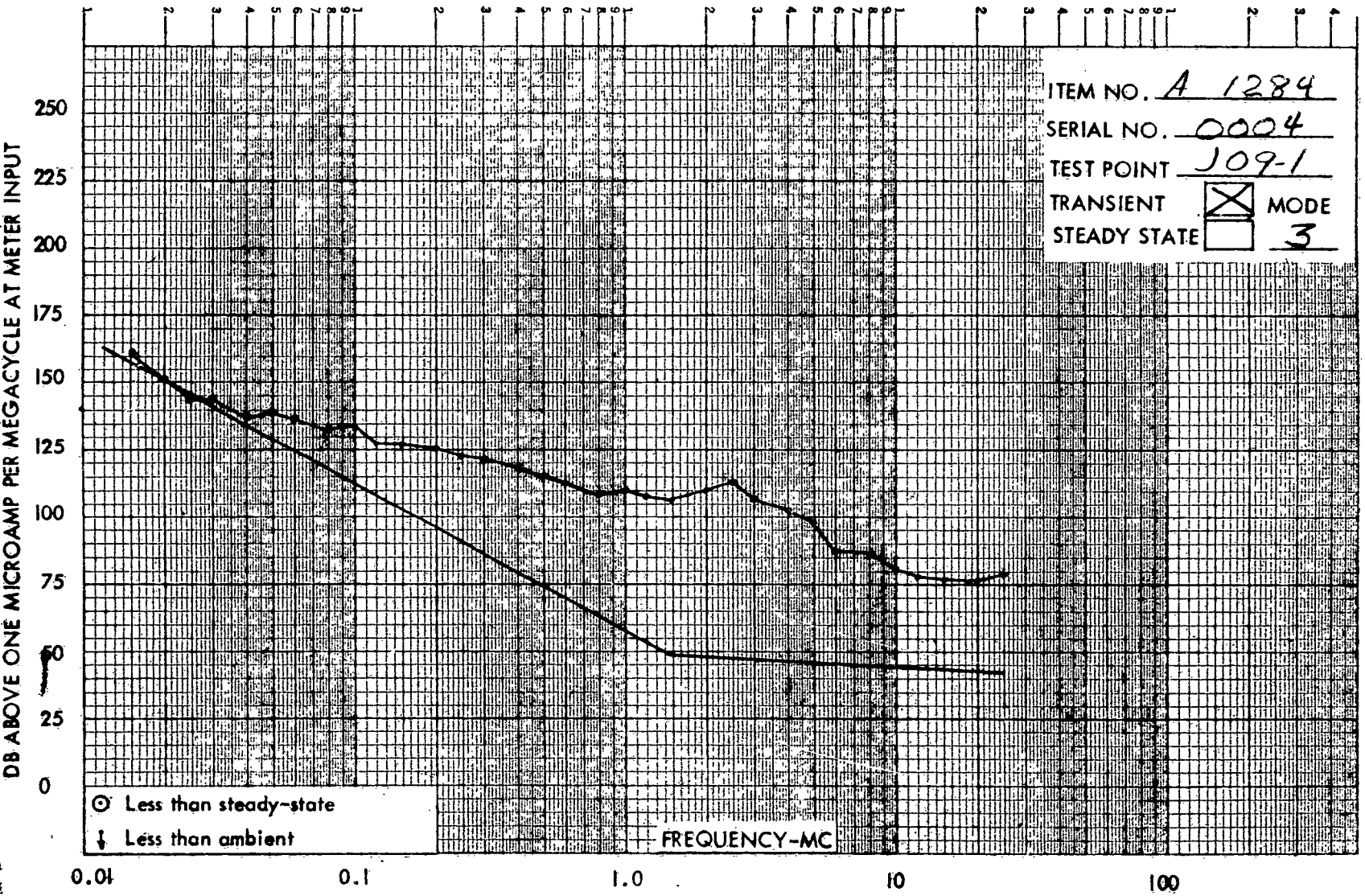
2-5493-05
APR 8 1963
BOEING
SEC. II
VOL. II
PAGE 45



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 99, 100

2-5493-0-5 APR 8 1963
BOEING VOL. II SEC. III NO. T2-2786 PAGE 46



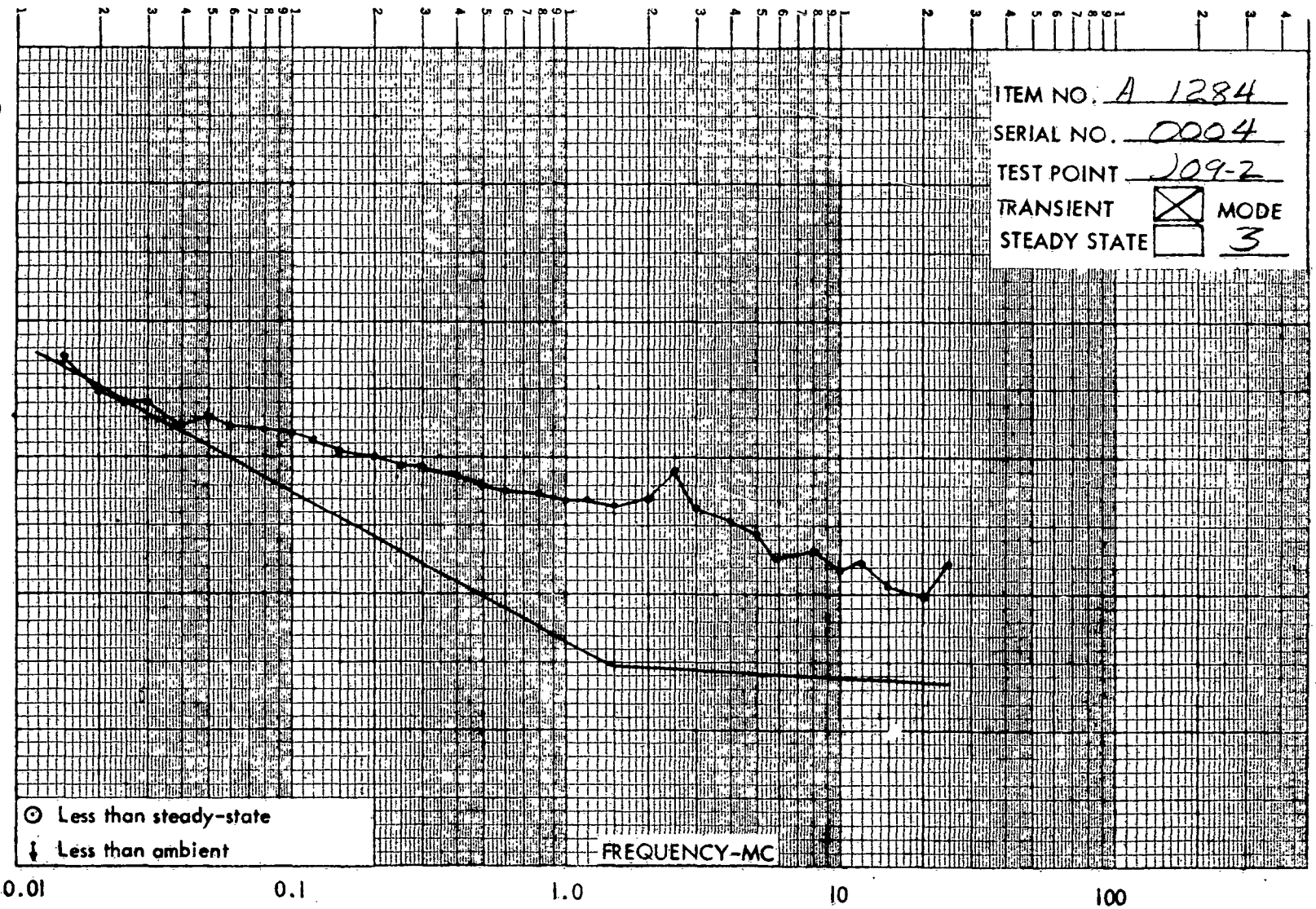
BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 101-2

2-5493-0-5

APR 6 1963

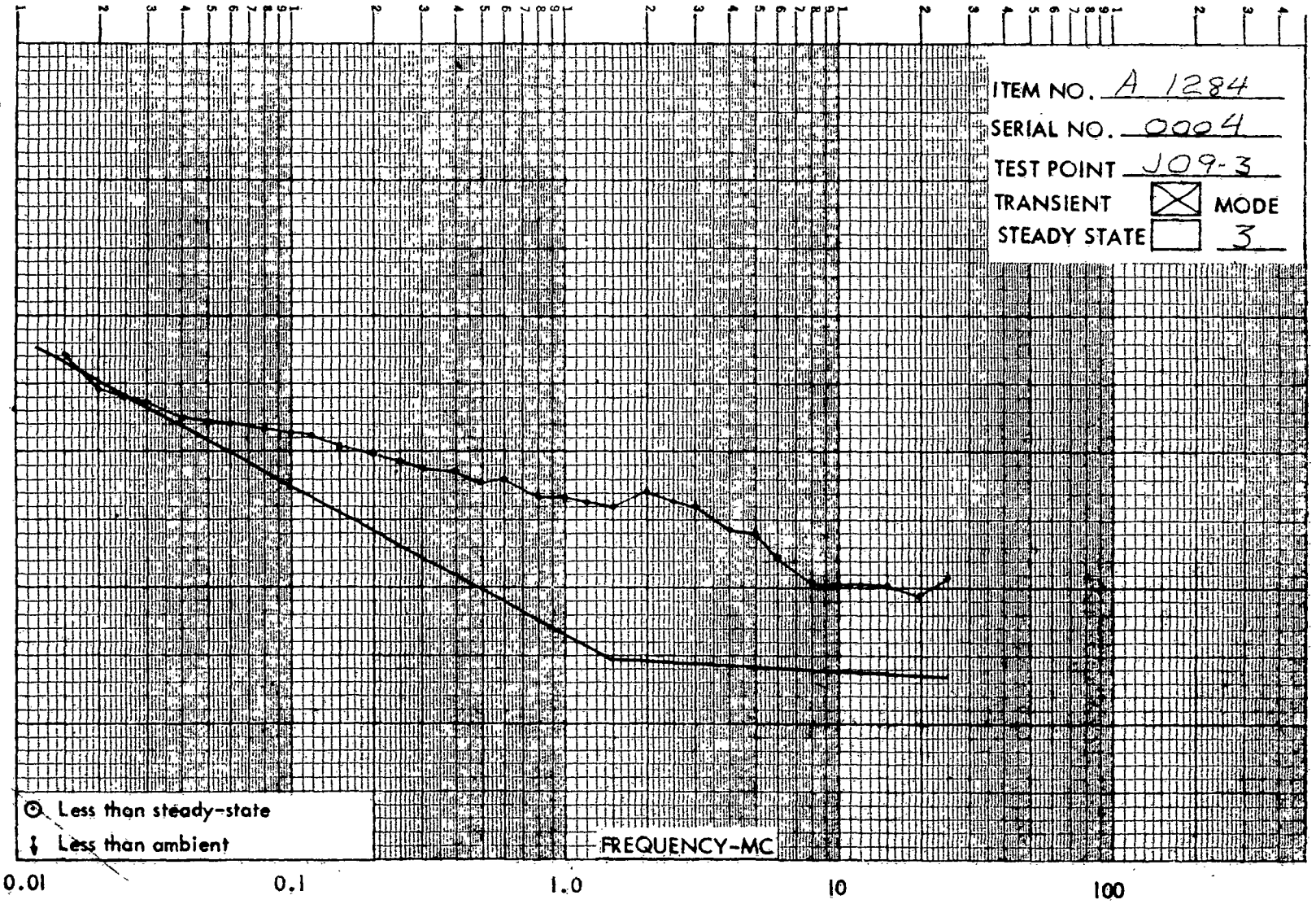
BOEING VOL. II SEC. III NO. T2-2786 PAGE 47



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 103-4

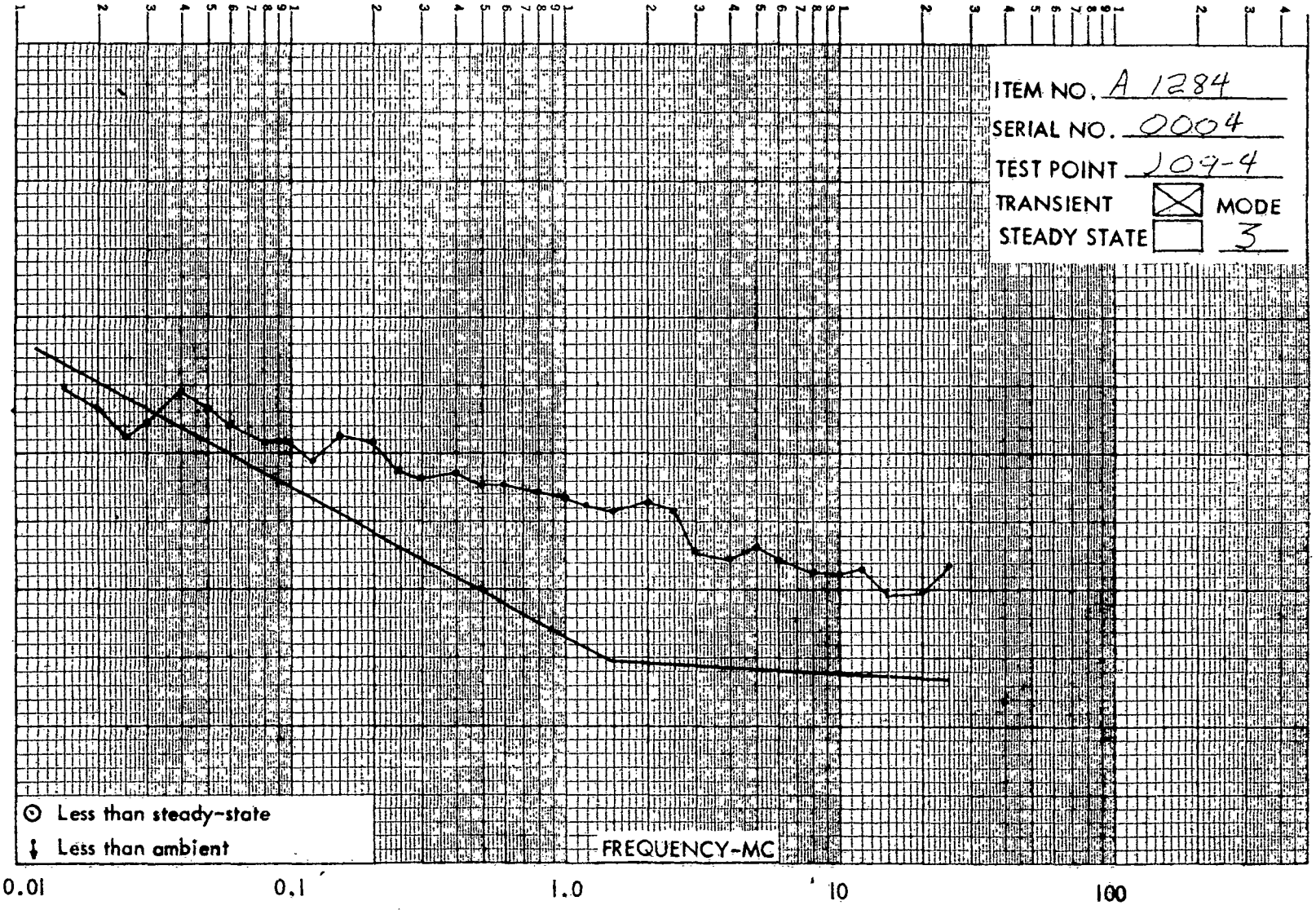
2-5493-0-5 APR 8 1963
BOEING VOL. II SEC. III NO. 12 2786 PAGE 48



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 105-6

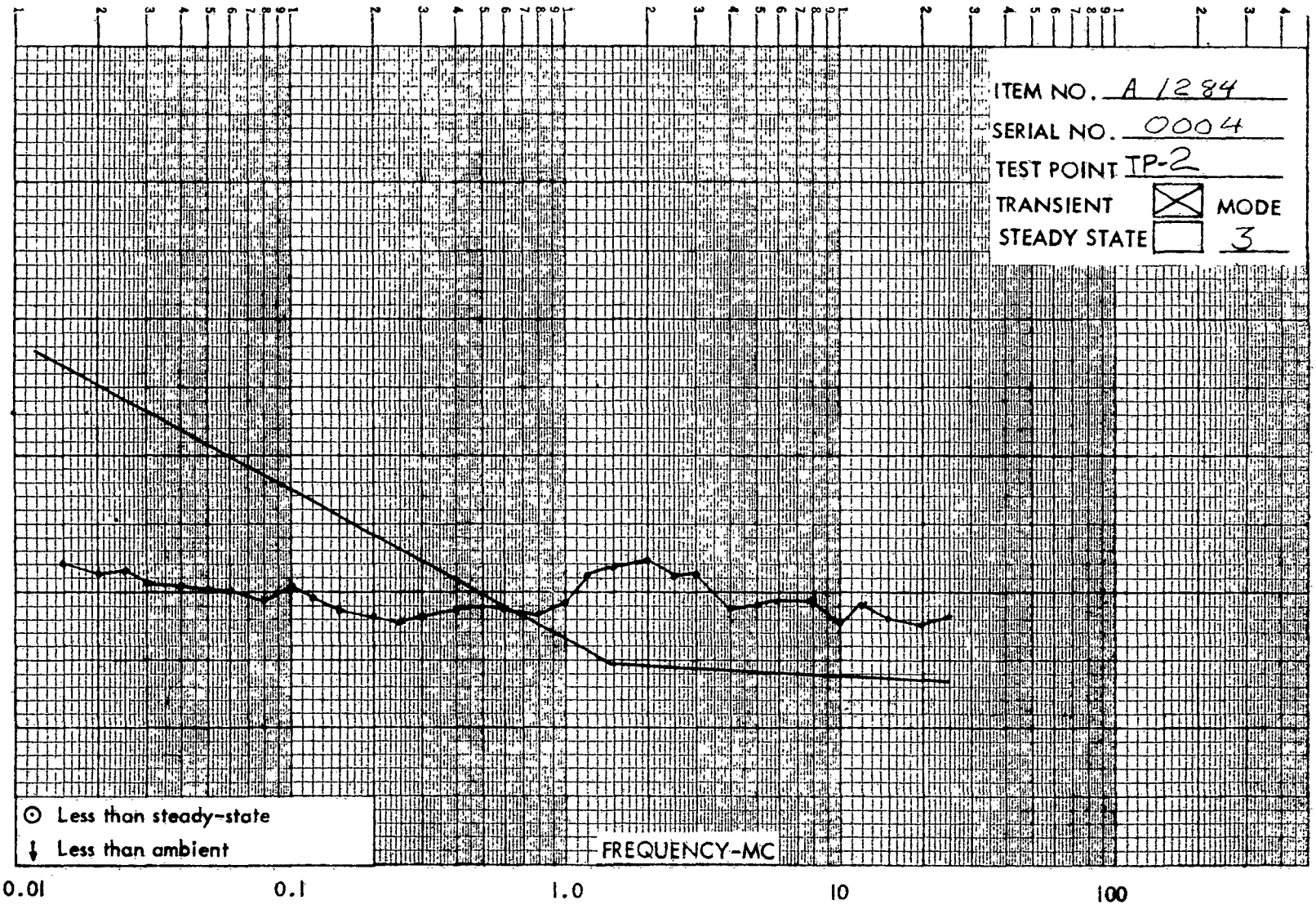
2-5493-0-5
APR 8 1963
BOEING
VOL. II
SEC. III
NO. T2-2786
PAGE 49



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 107-8

2-5493-0-5
APR 8 1963
BOEING
VOL. II
SEC. III
NO
PAGE 50
T2-2736



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

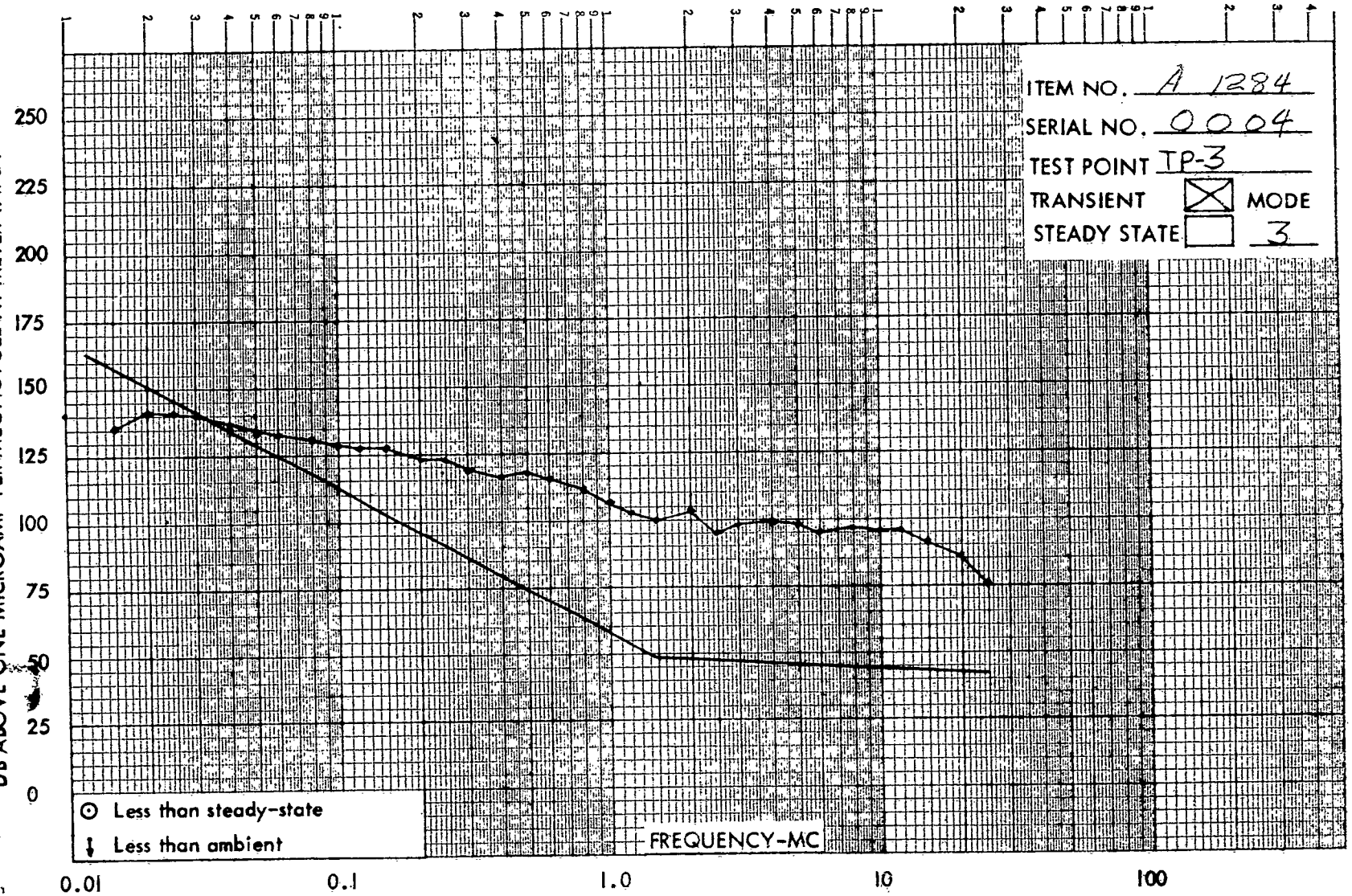
Data on page 109, 110

2-5493-0-5

APR 8 1963

BOEING VOL. II NO. T2-2786

SEC. III PAGE 51



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

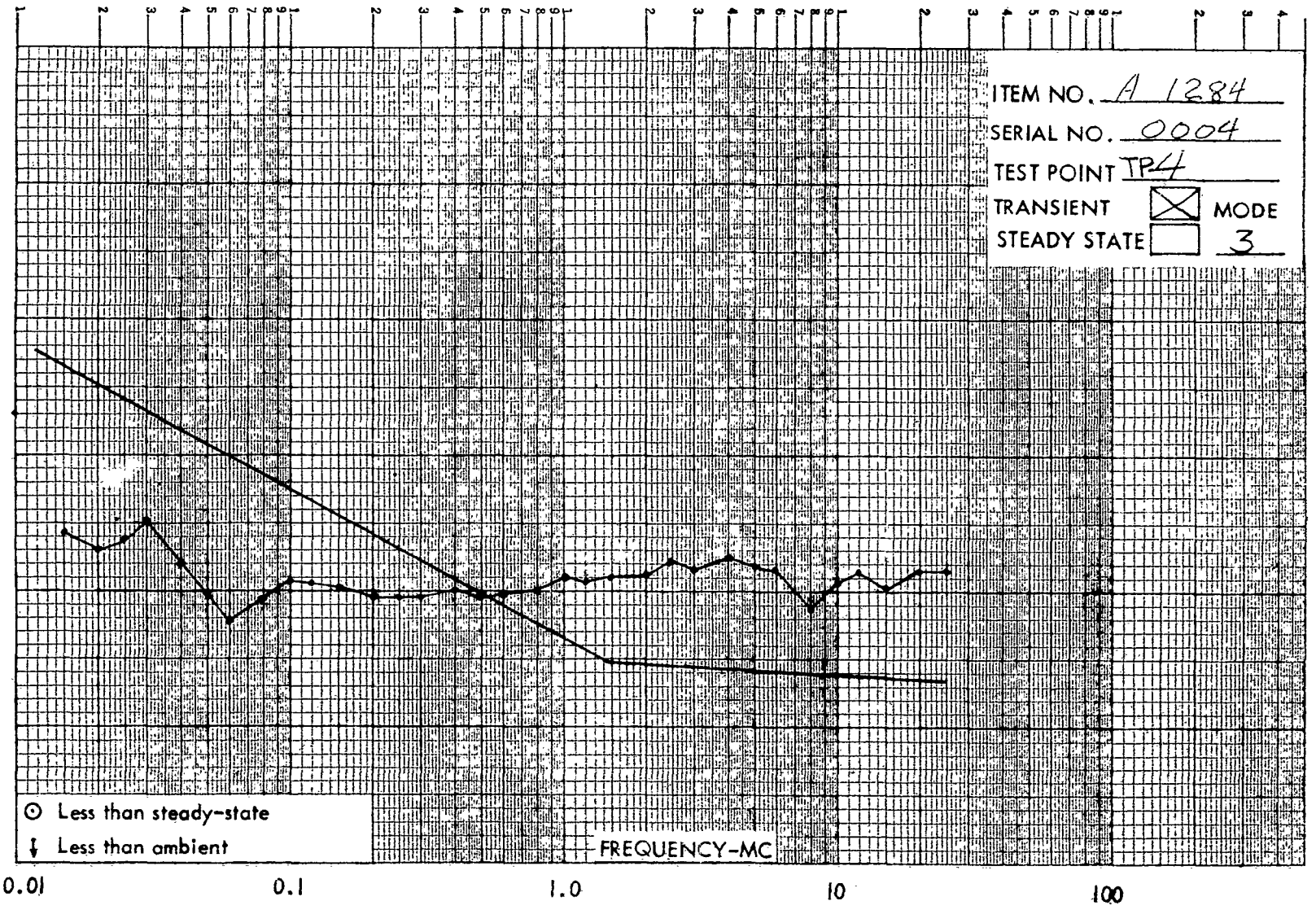
Data on page III-2

2-5493-0-5

APR 8 1963

BOEING | VOL. II | SEC. III | NO. | PAGE 52

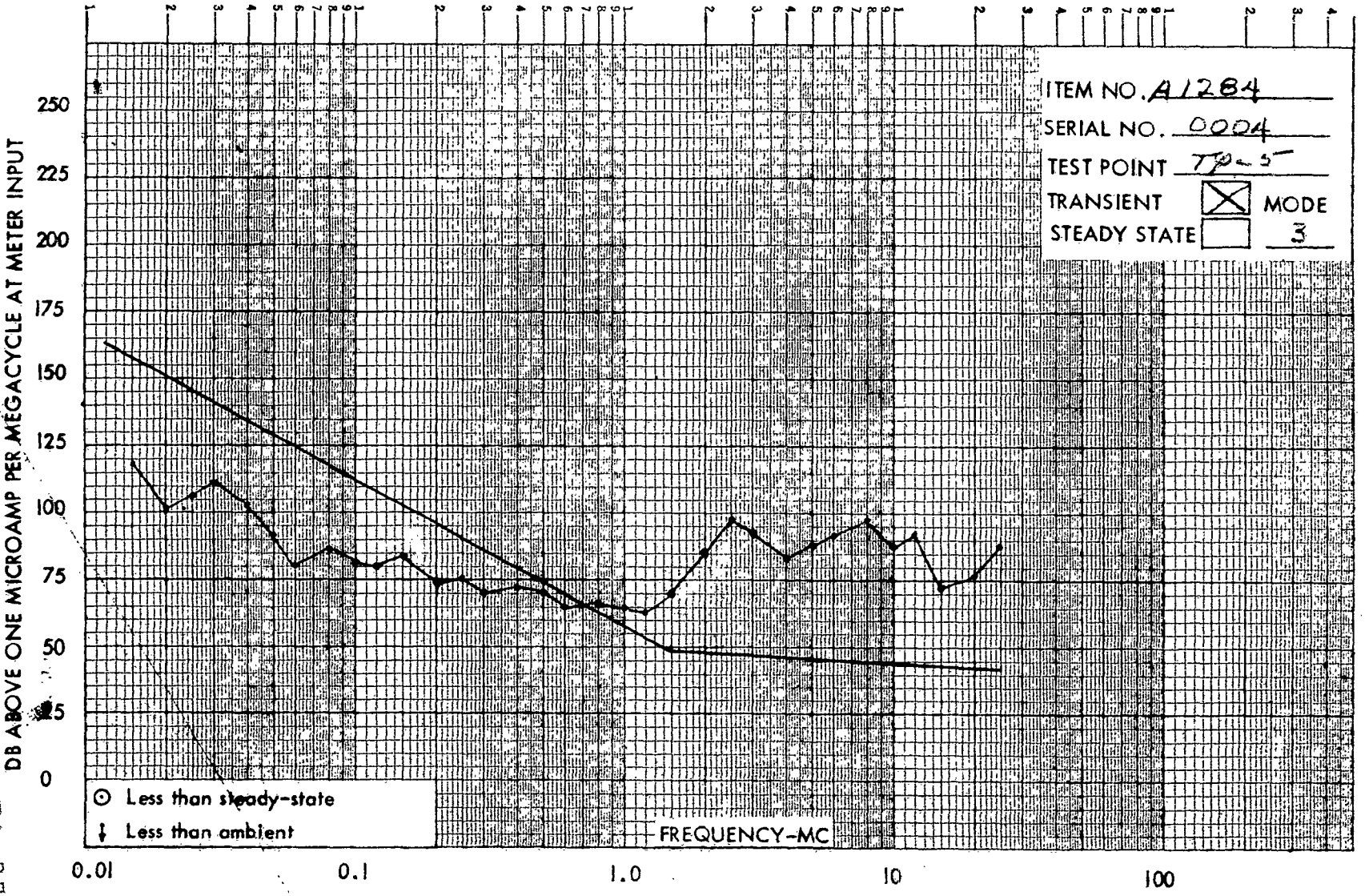
T2-2730



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 113-4

2-5493-0-5
APR 8 1963
BOEING
SEC. II VOL. II PAGE NO. 12-2736



BROADBAND AND PULSED CW CONDUCTED DATA USING CURRENT PROBE

Data on page 115-6

2-5493-0-5
APR 8 1983
BOEING
VOL. II
SEC. III
NO. 112-2786
PAGE 84

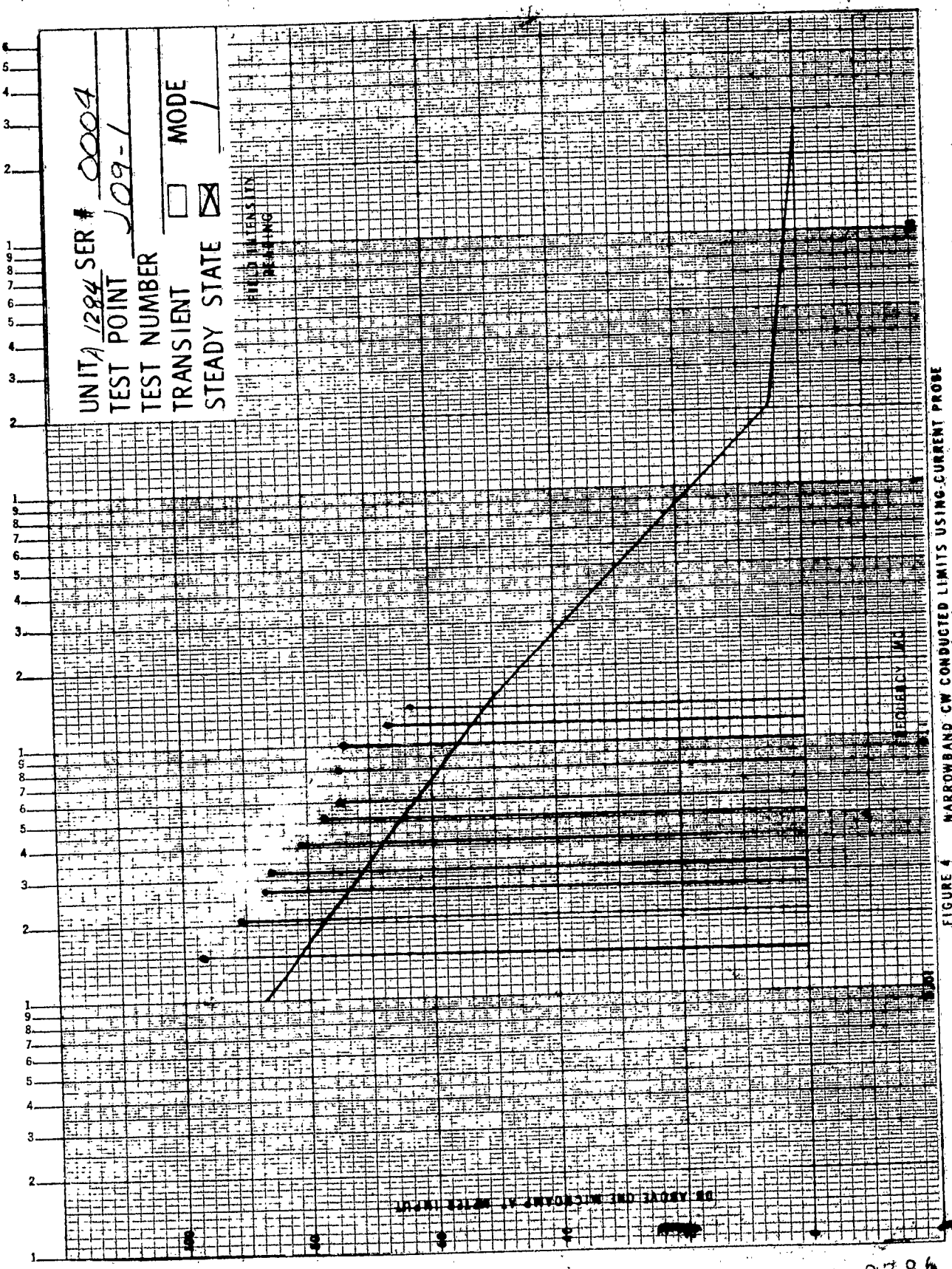


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION _____

U3 4500 9225 ORIG. 1/61

APR 8 1963

BOEING NO. T2-2786

Vol II Sec III PAGE 55

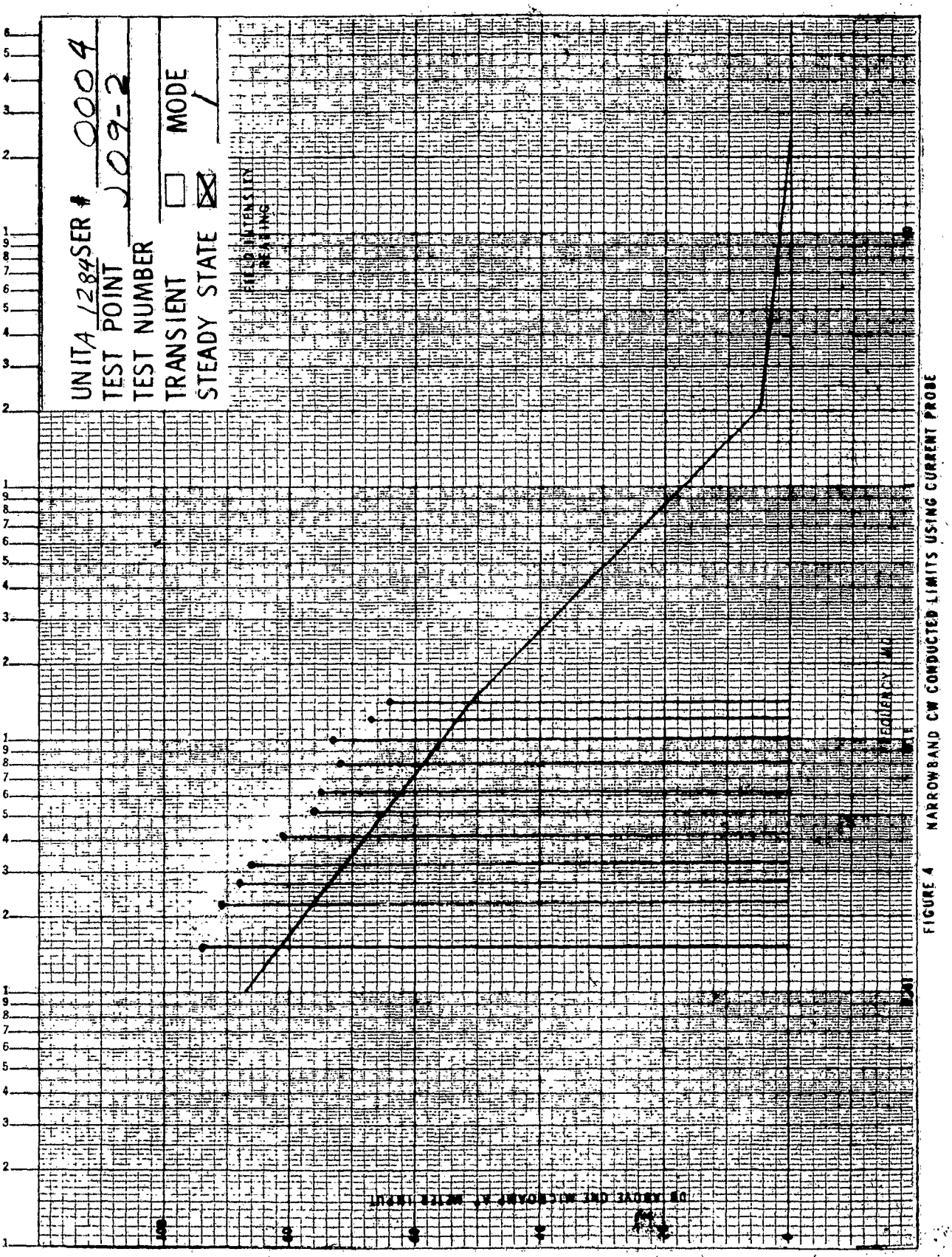


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION

U3 4500 9225 ORIG. 1/61

APR 8 1963

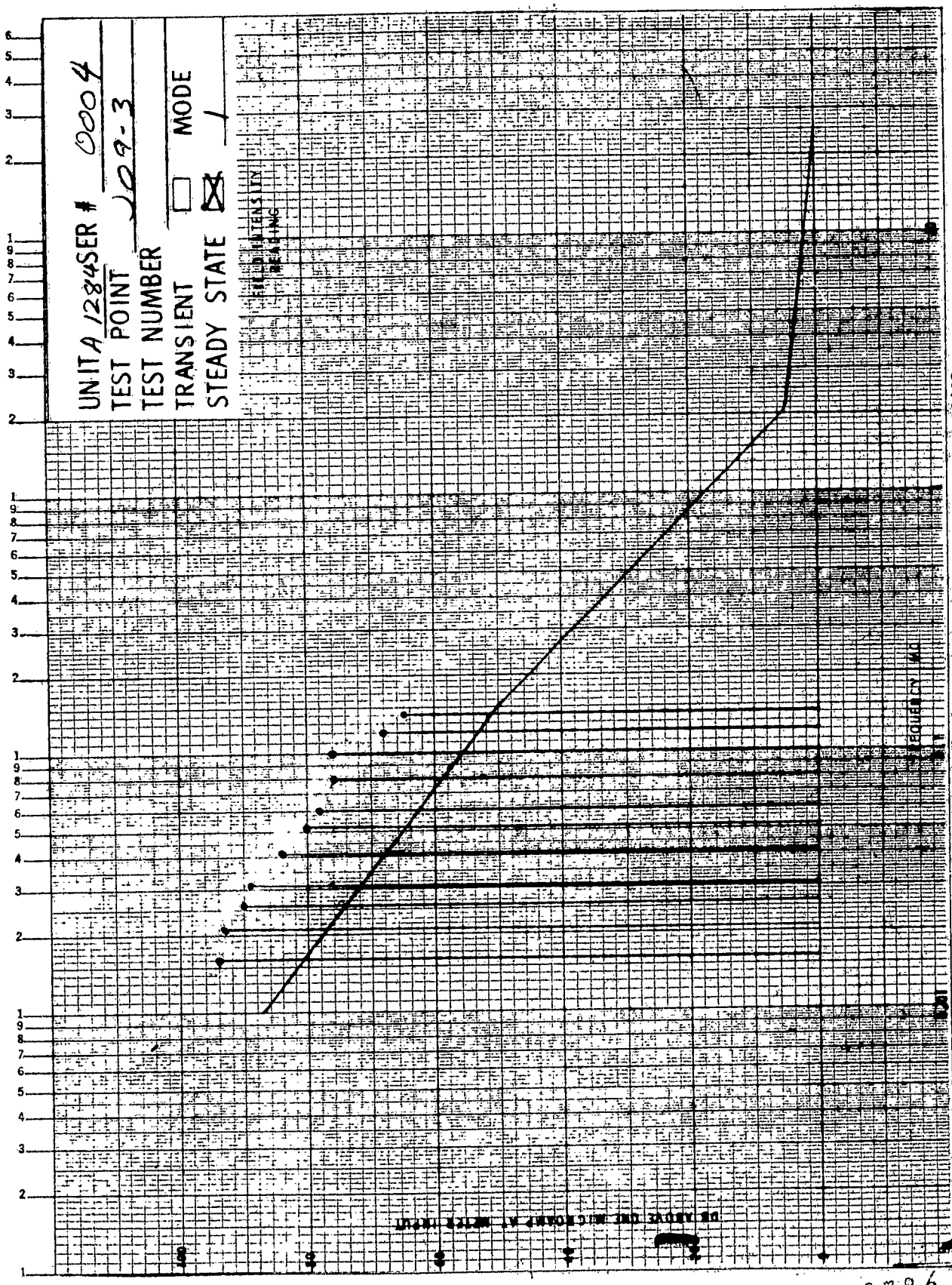


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION _____

U3 4500 9225 ORIG. 1/61

APR 8 1983

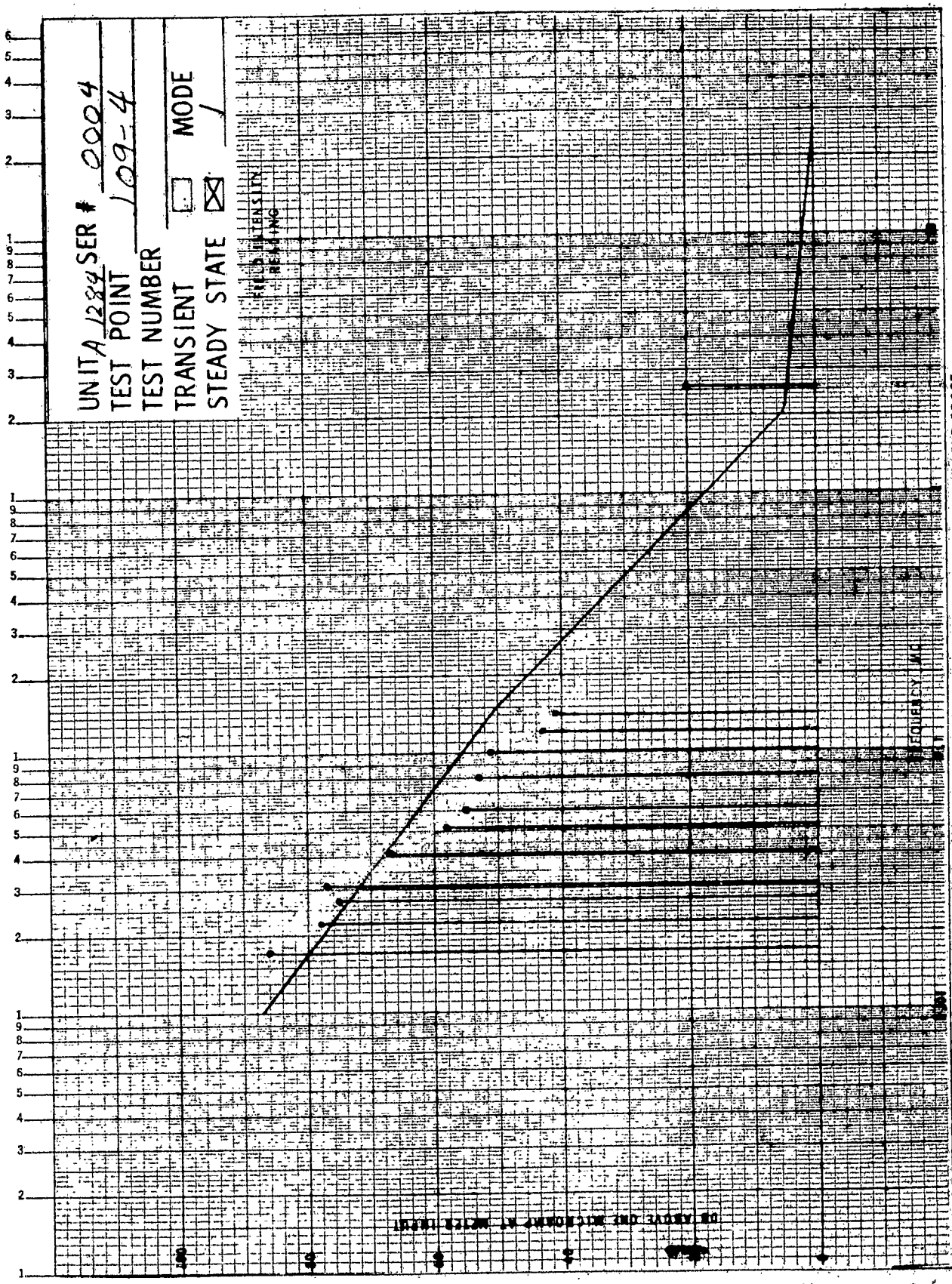


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

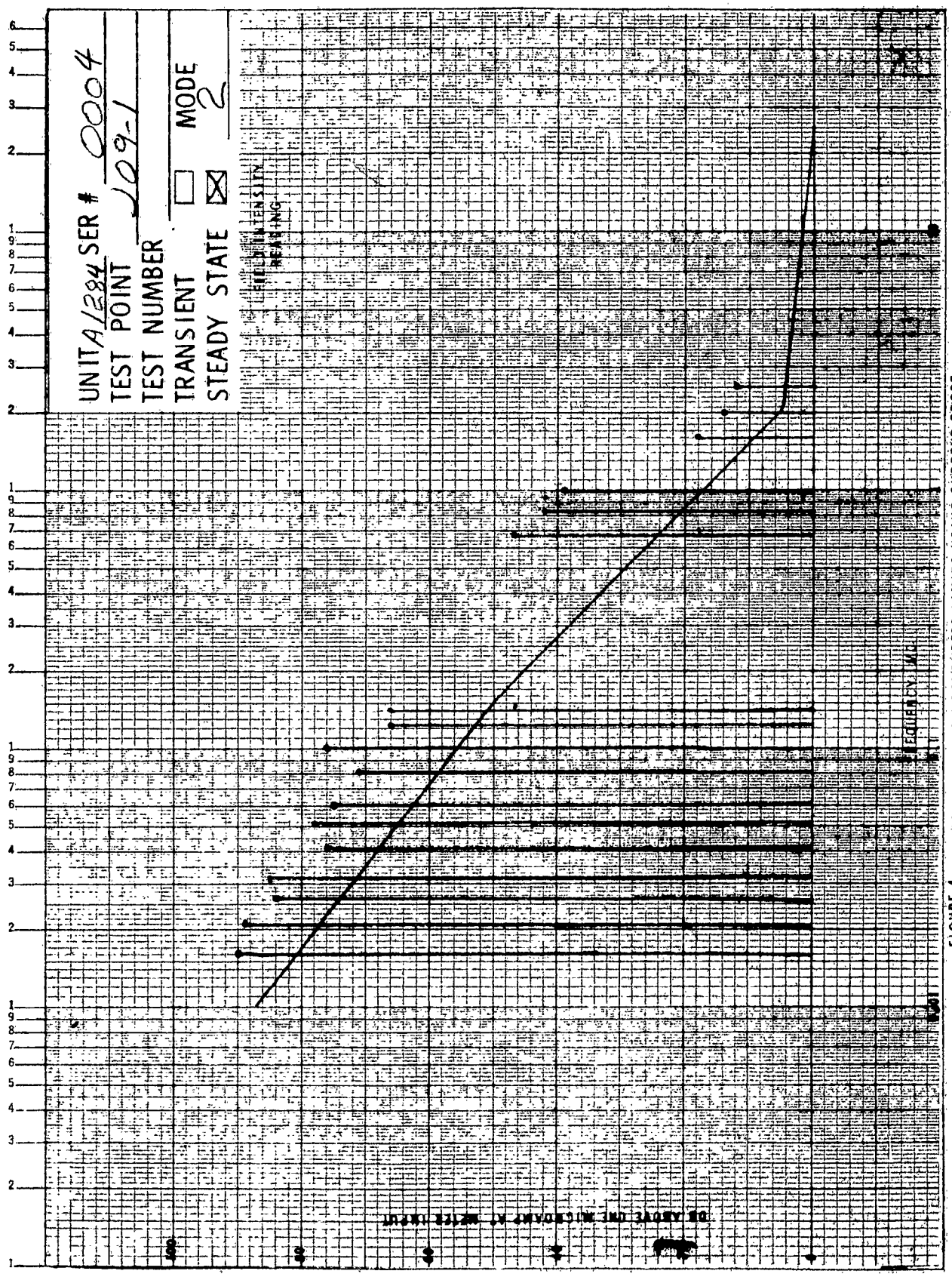


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION

U3 4500 9225 ORIG. 1/61

APR 8 1963

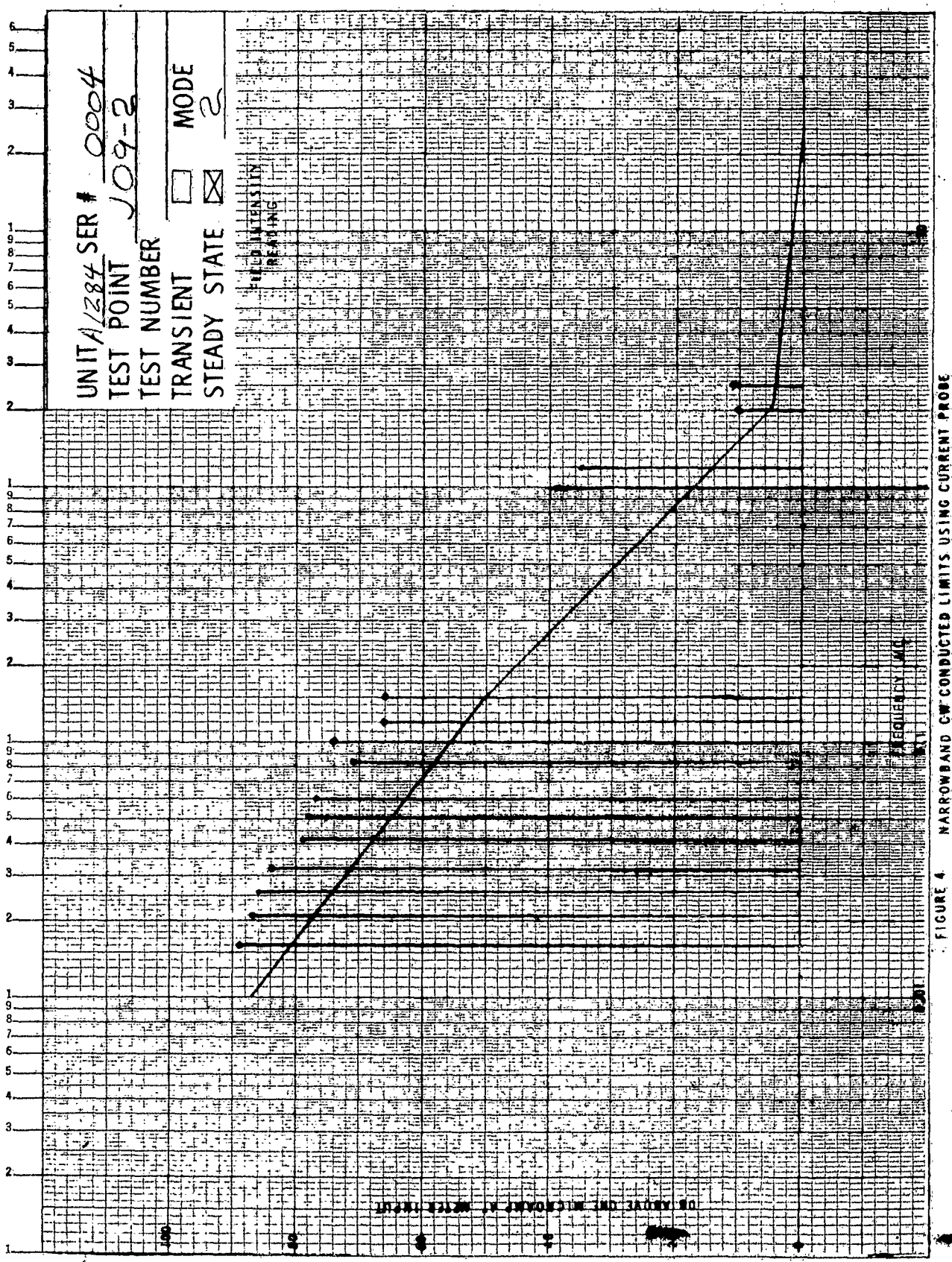


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION _____

U3 4500 9225 ORIG. 1/61

APR 8 1963

Vol II, Sec III.

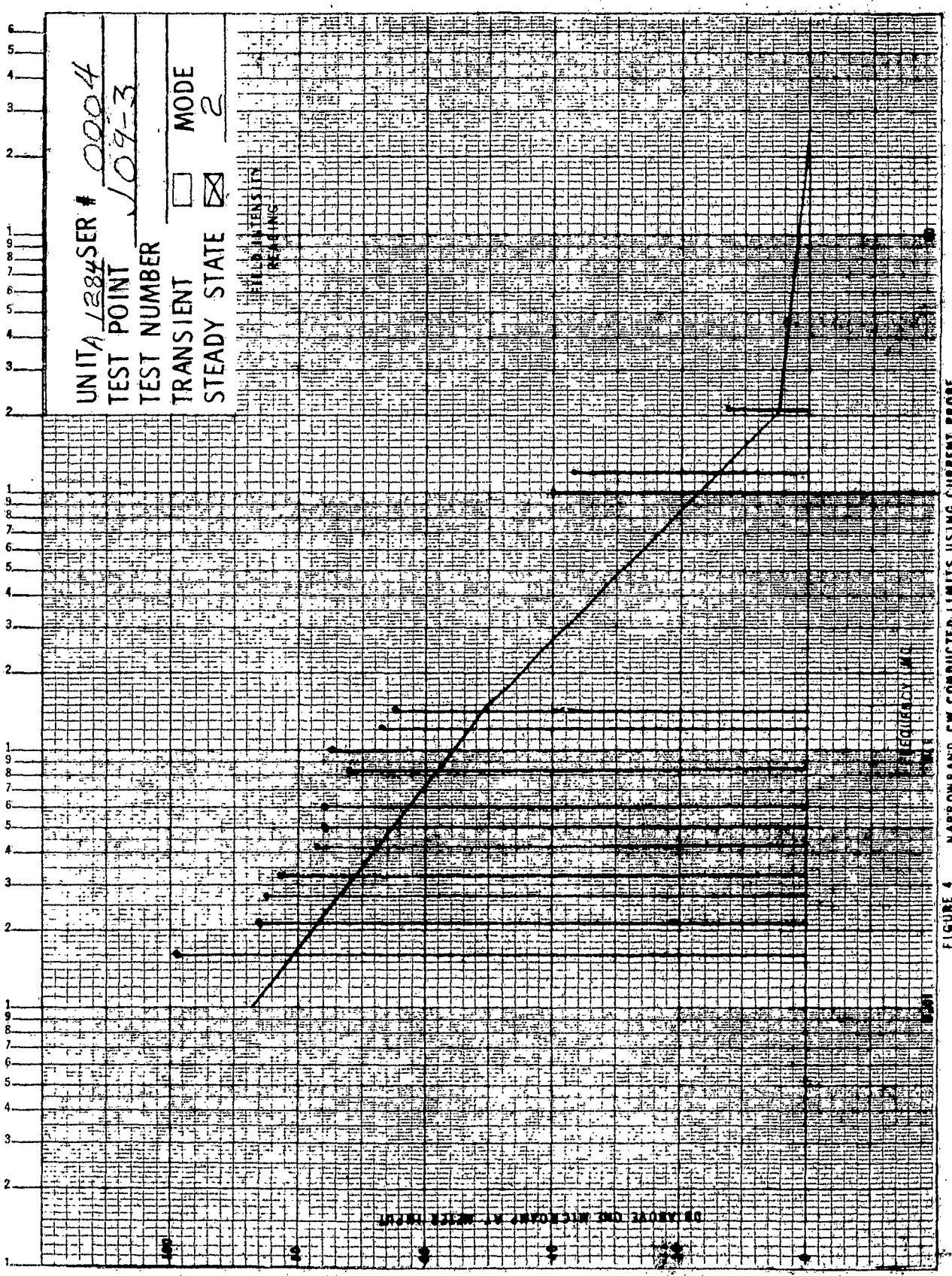


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION

U3 4500 9225 ORIG. 1/61

APR 8 1963

Vol II, Sec III

BOEING NO. T2-2786

PAGE 61

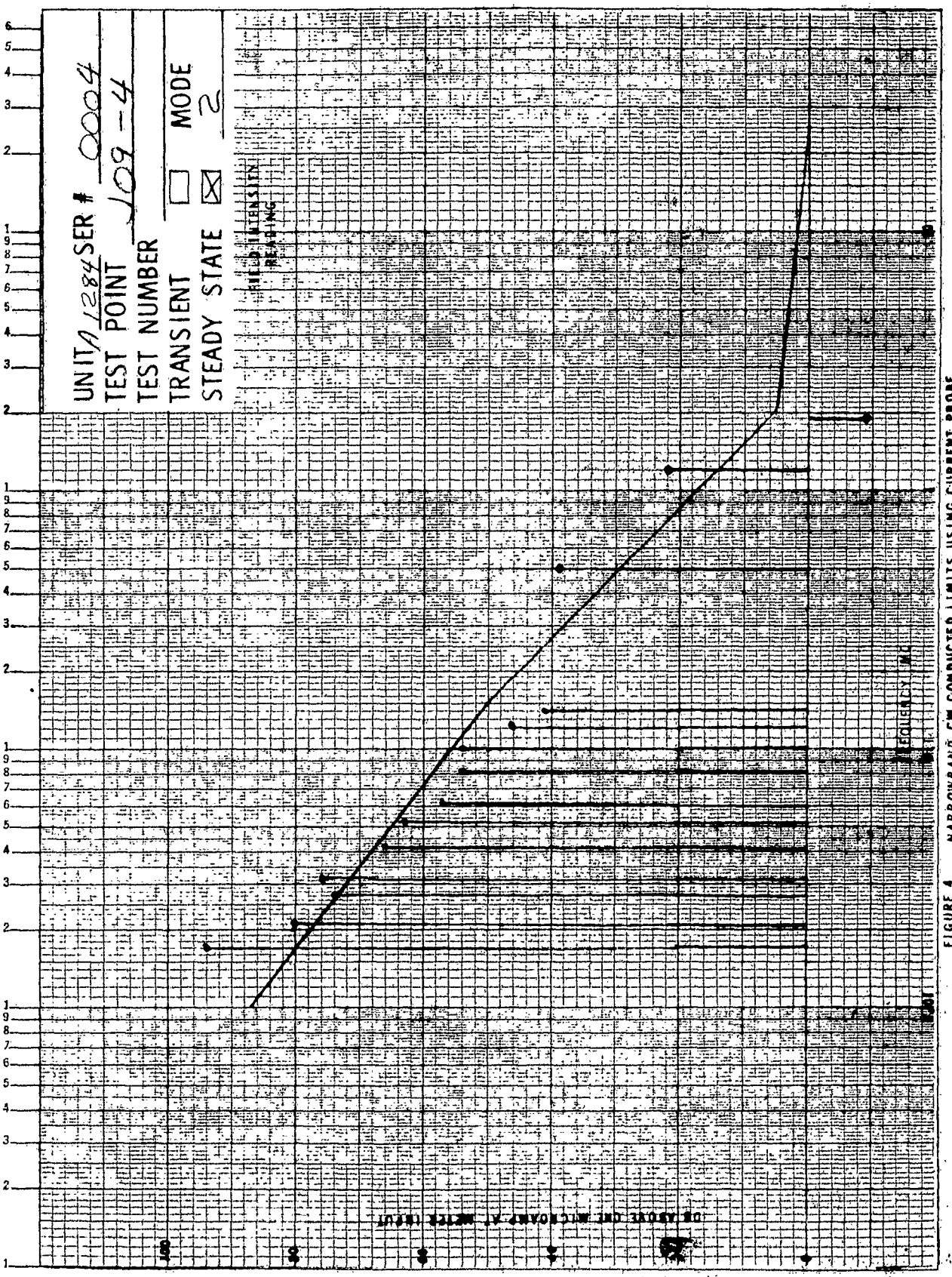


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION

U3 4500 9225 ORIG. 1 61

APR 8 1963

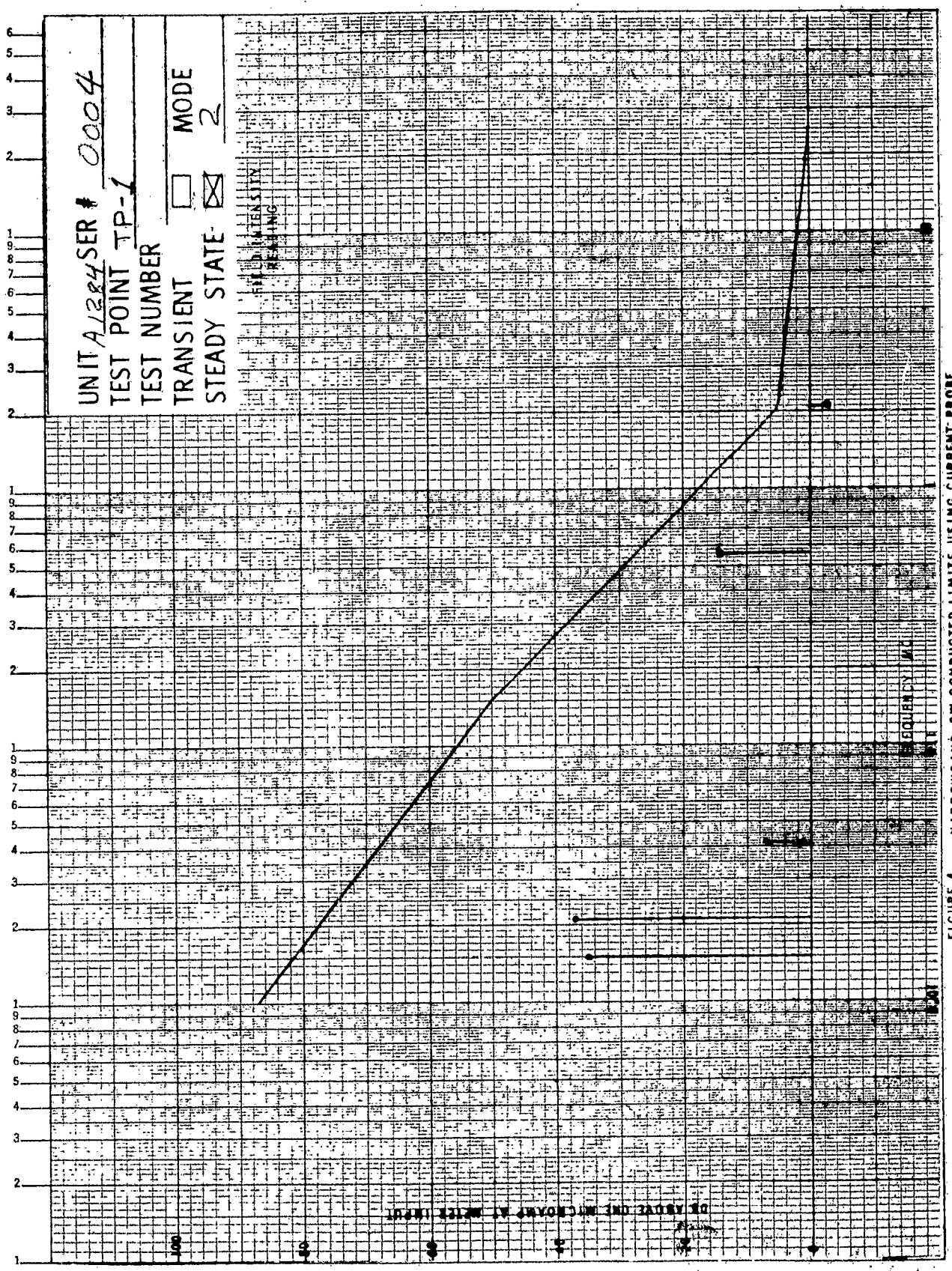


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION

U3 4500 9225 ORIG. 1/61

APR 8 1963

Vol II, Sec II

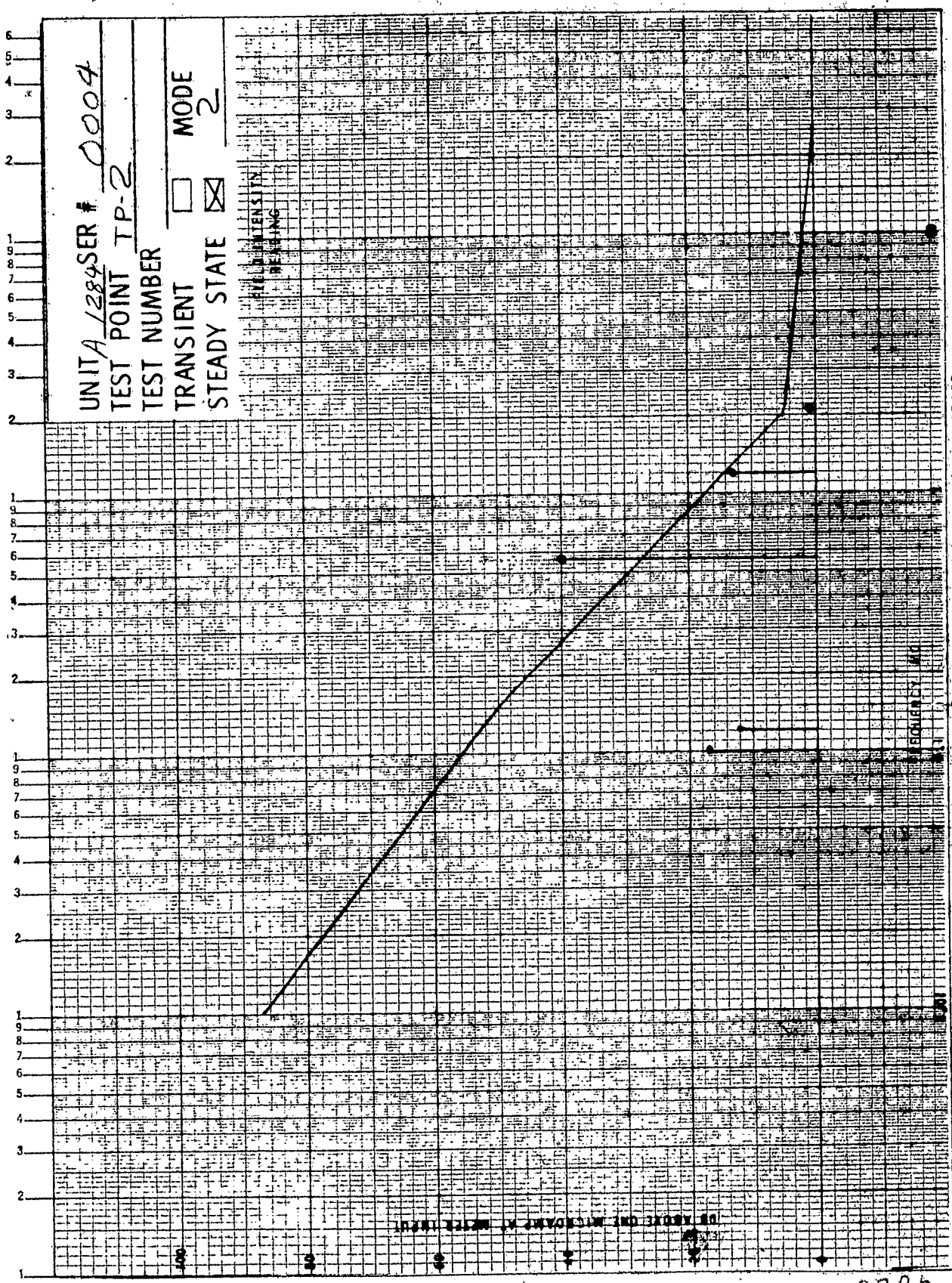


FIGURE 4 NARROWBAND CW CONDUCTED LIMITS USING CURRENT PROBE

SPECIFICATION

U3 4500 9225 ORIG. 1/61

APR 8 1963

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BOEING NO. T2-2786

PAGE 64

APPENDIX V

Tabulated Test Data

1.0 **Radiated Interference**

Frequency	Mode	Test Point	Page
15 KC - 400 MC	TH		67, 68
	AMB		69, 70
	1		71, 72
	2		73, 74
15 KC - 400 MC	3		75, 76

2.0 **Conducted Interference**

2.1 **Broadband**

30 cps - 15 KC	TH		77
15 KC - 150 KC	TH		78
.15 MC - 25 MC	TH		79
30 cps - 15 KC	1	J09-1	80
		J09-2	80
		J09-3	80
	1	J09-4	80
	2	J09-1	80
		J09-2	80
		J09-3	80
		J09-4	80
		TP-1	80
	2	TP-1	80
	3	J09-1	80
		J09-2	80
		J09-3	80
		J09-4	80
		TP-2	80
		TP-3	80
		TP-4	80
30 cps - 15 KC	3	TP-5	80
15 KC - 25 MC	1	J09-1	81, 82
		J09-2	83, 84
		J09-3	85, 86
	1	J09-4	87, 88
	2	J09-1	89, 90
		J09-2	91, 92
		J09-3	93, 94
		J09-4	95, 96
		TP-1	97, 98
15 KC - 25 MC	2	TP-2	99, 100

Added 4-8-63

APPENDIX V (continued)

2.1 Broadband (continued)

Frequency	Mode	Test Point	Page
15 KC - 25 MC	3	J09-1	101, 102
		J09-2	103, 104
		J09-3	105, 106
		J09-4	107, 108
		TP-2	109, 110
		TP-3	111, 112
		TP-4	113, 114
15 KC - 25 MC	3	TP-5	115, 116

2.2 CW

Frequency	Mode	Test Point	Page
15 KC - 25 MC	1	J09-1	117
		J09-2	118
		J09-3	119
	1	J09-4	120
	2	J09-1	121
		J09-2	122
		J09-3	123
		J09-4	124
		TP-1	125
15 KC - 25 MC	2	TP-2	126

Added 4-8-63

BROADBAND ☒ RADIATED ☒ STABILIZATION NETWORK ☐ TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☐ CURRENT PROBE ☐ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT _____ MODE T4

Freq. Kc	Meter Reading dbμv/mc	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level dbμv/mc	Spec. Limit	Remarks
15	36		49			85		
20	36		46			82		
25	39		44			78		
30	36		44			80		
40	35		40			75		
50	35		38			73		
60	36		36			72		
80	38		39			77		
100	38		36			74		
120	36		35			71		
150	36		33			69		
Mc								
.15	35		37			72		
.20	34		37			71		
.25	33		37			70		
.30	34		36			70		
.40	32		31			63		
.50	29		32			61		
.60	29		32			61		
.80	30		33			63		
1.0	32		29			61		
1.2	31		29			60		
1.5	30		29			59		
2.0	31		29			60		
2.5	30		23			53		
3.0	29		22			51		
4.0	31		23			54		
5.0	31		23			54		
6.0	32		20			52		

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	449		SANDERS	2-15-63
IX/NF-105 S/N 1571	INT.			
			Plotted on page 30	

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BROADBAND ☒ RADIATED ☒ STABILIZATION NETWORK ☐ TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☐ CURRENT PROBE ☐ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT _____ MODE TH

Freq. Mc	Meter Reading dbμv/mc	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level dbμv/mc	Spec. Limit	Remarks
8.0	29		18			47		
10	28		19			47		
12	29		19			48		
15	32		16			48		
20	32		15			47		
25	35		15			50		
30	32		8			40		
40	32		8			40		
50	31		8			39		
60	30		8			38		
80	31		8			39		
100	32		8			40		
120	33		8			41		
150	33		8			41		
200	34		8			42		
250	32		8			40		
300	30		8			38		
400	31		8			39		

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	449		Sanders	2-15-68
			Plotted on page 30	

BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [X] RMS [ ]

ITEM NO. A1294 SERIAL NO. 0004 TEST POINT 3' MODE AMB

Freq. KC	Meter Reading db/uV/MC	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level db/uV/MC	Spec. Limit db/uV/MC	Remarks
15	36		49			85	97	TH
20	36		46			82	95	TH
25	34		44			78	93	TH
30	36		44			80	91	TH
40	35		40			75	89	TH
50	35		38			73	87	TH
60	36		36			72	85	TH
80	38		39			77	83	TH
100	38		36			74	81	TH
120	36		35			71	79	TH
140	36		33			69	77	TH
MC								
.15	35		37			72	77	TH
.20	34		37			71	75	TH
.25	33		37			70	74	TH
.30	34		36			70	73	TH
.40	32		31			63	71	TH
.50	29		32			61	70	TH
.60	29		32			61	70	TH
.80	30		33			63	69	TH
1.0	32		29			61	69	TH
1.2	31		29			60	69	TH
1.5	30		29			59	69	TH
2.0	31		29			60	69	TH
2.5	30		23			53	68	TH
3.0	29		22			51	68	TH
4.0	31		23			54	68	TH
5.0	31		23			54	68	TH
6.0	32		20			52	67	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF105 SN1385	IG115SN449		LINDER	2-26-63
TX IN1571	INTERNAL		HEWITT	
			Plotted on page 31	

BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [X] RMS [ ]

ITEM NO. 41284 SERIAL NO. 0004 TEST POINT 3' MODE AMB

Freq. MC	Meter Reading dB/μV/MC	Probe Factor	Antenna Factor dB	Cable Loss		Corrected Level dB/μV/MC	Spec. Limit dB/μV/MC	Remarks
8.0	29		18			47	67	TH
10.0	28		19			47	67	TH
12.0	29		19			48	67	TH
15.0	32		16			48	66	TH
20.0	32		15			47	66	TH
25.0	35		15			50	66	TH
30.0	32		8			40	47	TH
40.0	31		8			39	50	TH
50.0	31		8			39	51	TH
60.0	30		8			38	51	TH
80.0	32		8			40	52	TH
100.0	32		8			40	53	TH
120.0	33		8			41	53	TH
150.0	33		8			41	54	TH
200.0	34		8			42	55	TH
250.0	32		8			40	56	TH
300.0	30		8			38	56	TH
400.0	31		8			39	57	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF105 SN 1385	T2115 SN 449		Linder	2-26-63
			Plotted on page 31	

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BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [X] RMS [ ]

ITEM NO. 4128H SERIAL NO. 6004 TEST POINT 3' MODE 1

Freq. KC	Meter Reading dB/uV/MC	Probe Factor	Antenna Factor dB	Cable Loss		Corrected Level dB/uV/MC	Spec. Limit dB/uV/MC	Remarks
15	36		49			85	97	AMB
20	40		46			86	95	
25	41		44			85	93	
30	47		44			91	91	
40	43		40			80	89	
50	35		38			73	87	AMB
60	32		40			72	85	AMB
80	38		39			77	83	AMB
100	38		36			74	81	AMB
120	36		35			71	79	AMB
150	36		33			69	77	AMB
MC								
.15	35		37			72	77	AMB
.20	34		37			71	75	AMB
.25	33		37			70	74	AMB
.30	34		36			70	73	AMB
.40	32		31			63	71	AMB
.50	29		32			61	70	AMB
.60	29		32			61	70	AMB
.80	30		33			63	69	AMB
1.0	33		29			62	69	
1.2	31		29			60	69	AMB
1.5	30		29			59	69	AMB
2.0	32		29			61	69	
2.5	30		23			53	68	AMB
3.0	31		22			53	68	
4.0	31		23			54	68	AMB
5.0	31		23			54	68	AMB
6.0	32		20			52	67	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NE 105 S/N 1885	IG 115 S/N 449		HEWITT	4-26-63
TX S/N 1571	INTERNAL		LINDER	
			Plotted on page 32	

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BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [X] RMS [ ]

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT 3' MODE 1

Freq. Mc	Meter Reading db/uv/mc	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level db/uv/mc	Spec. Limit db/uv/mc	Remarks
8.0	29		18			47	67	AMB
10	28		19			47	67	AMB
12	29		19			48	67	AMB
15	32		16			48	66	AMB
20	32		15			47	66	AMB
25	35		15			50	66	AMB
30	32		8			40	47	AMB
40	32		8			40	50	AMB
50	31		8			39	51	AMB
60	30		8			38	51	AMB
80	32		8			40	52	AMB
100	32		8			40	53	AMB
120	33		8			41	53	AMB
150	33		8			41	54	AMB
200	34		8			42	55	AMB
250	32		8			40	56	AMB
300	30		8			38	56	AMB
400	31		8			39	57	AMB

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	449		Linden	2-26-63
			Plotted on page 32	

BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [X] RMS [ ]

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT 3' MODE

Freq. KC	Meter Reading db/uV/MC	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level db/uV/MC	Spec. Limit db/uV/MC	Remarks
15	47		49			[illegible]	97	
20	41		46			[illegible]	95	
25	41		44			[illegible]	93	
30	45		44			[illegible]	91	
40	40		40			[illegible]	89	
50	37		40			[illegible]	87	
60	36		36			72	85	AMB
80	38		35			71	83	AMB
100	38		36			74	81	AMB
120	36		35			71	79	AMB
150	36		33			69	77	AMB
MC								
.15	35		37			72	77	AMB
.20	34		37			71	75	AMB
.25	33		37			70	74	AMB
.30	34		36			70	73	AMB
.40	32		31			63	71	AMB
.50	29		32			61	70	AMB
.60	29		32			61	70	AMB
.80	35		33			68	69	
1.0	32		29			61	69	AMB
1.2	31		29			60	69	AMB
1.5	32		29			61	69	
2.0	32		29			61	69	
2.5	30		23			53	68	AMB
3.0	31		22			53	68	
4.0	31		23			54	68	AMB
5.0	31		23			54	68	AMB
6.0	32		20			52	67	AMB

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NE105 SN 1885	EG115 SN 487		[illegible]	2-26-63
TX SN 1571	INTERNAL		[illegible]	
			Plotted on page 33	

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BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [X] RMS [ ]

ITEM NO. A1884 SERIAL NO. 0004 TEST POINT 3' MODE 2

Freq. MC	Meter Reading dbμV/MC	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level dbμV/MC	Spec. Limit dbμV/MC	Remarks
8.0	29		18			47	67	AMB
10.0	28		19			47	67	AMB
12.0	29		19			48	67	AMB
15.0	32		16			48	66	AMB
20.0	32		15			47	66	AMB
25.0	35		15			50	66	AMB
30.0	32		8			40	47	AMB
40.0	31		8			39	50	AMB
50.0	31		8			39	51	AMB
60.0	30		8			38	51	AMB
80.0	32		8			40	52	AMB
100.0	32		8			40	53	AMB
120.0	33		8			41	53	AMB
150.0	33		8			41	54	AMB
200.0	34		8			42	55	AMB
250.0	32		8			40	56	AMB
300.0	30		8			38	56	AMB
400.0	31		8			39	57	AMB

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF105 SN 1885	IG115 SN 449		Linder	2-26-63
			Plotted on page 33	

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BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [ ] RMS [ ]

ITEM NO. 4128A SERIAL NO. 0004 TEST POINT 3 MODE 3

Freq. KC	Meter Reading db/uV/MC	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level db/uV/MC	Spec. Limit db/uV/MC	Remarks
15	47		49			96	97	OFF
20	47		46			93	95	ON
25	48		44			92	93	ON
30	51		44			95	91	ON
40	48		40			88	89	ON
50	52		38			90	87	ON
60	45		36			81	85	ON
80	40		39			79	83	ON
100	38		36			74	81	ON
120	36		35			71	79	ON
150	40		33			73	77	ON
MC								
.15	38		37			75	77	ON
.20	39		37			76	75	ON
.25	38		37			75	74	ON
.30	42		36			78	73	ON
.40	45		31			76	71	ON
.50	55		32			87	70	ON
.60	61		32			93	70	ON
.80	63		33			96	69	ON
1.0	60		29			89	69	ON
1.2	52		29			81	69	ON
1.5	49		29			78	69	ON
2.0	48		29			77	69	ON
2.5	58		23			81	68	ON
3.0	69		22			91	68	ON
4.0	63		23			86	68	ON
5.0	61		23			84	68	ON
6.0	57		20			77	67	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF105 SN 1885	IG115 SN 449		HEWITT	2-26-63
IX SN 1571	INTERNAL			
			Plotted on page 34	

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BOEING VOL. IV NO. T2-2786

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BROADBAND [X] RADIATED [X] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [ ] CURRENT PROBE [ ] STEADY STATE [ ] RMS [ ]

ITEM NO. 1294 SERIAL NO. 0004 TEST POINT 3' MODE 3

Freq. MC	Meter Reading db/uv/mc	Probe Factor	Antenna Factor db	Cable Loss		Corrected Level db/uv/mc	Spec. Limit db/uv/mc	Remarks
8.0	50		18			68	67	ON
10.0	61		19			80	67	ON
12.0	65		19			84	67	ON
15.0	64		16			80	66	ON
20.0	63		15			78	66	ON
25.0	66		15			81	66	ON
30.0	77		8			85	47	ON
40.0	81		8			89	50	ON
50.0	71		6			77	51	ON
* 60.0	79		8			87	51	ON
100.0	82		8			90	52	ON
120.0	69		8			77	53	ON
150.0	58		8			66	54	ON
200.0	57		8			65	55	ON
250.0	46		8			54	55	ON
300.0	43		8			51	56	ON
400.0	44		8			52	57	ON
* 80.0	77		8			85	52	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 SN 1895	IG 115 SN 44		HEWITT	2-26-63
			Plotted on page 34	

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BROADBAND & PULSED CW CONDUCTED DATA USING CURRENT PROBE

30 CPS to 15 KC PEAK ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004

	Mode	Test Point	Type	Meter Reading db/uV/20KC	Corr. Factor	Corrected Level db/uA/20KC	Spec. Limit	Remarks
	METER BACKGROUND			6		6		METER BACKGROUND = THRESHOLD

Type: Transient (T), Steady-State (S), Ambient (A), Threshold (TH)

METER	PROBE		OPERATORS	DATE
NMHOA SN 310-4	345-25		HEWITT	2-27-63
			Plotted on page 36	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK ☐ TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT _____ MODE TH

Freq. KC	Meter Reading dbμv/mc	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level DBμA/m	Spec. Limit	Remarks
15	36	+1.5				51		
20	36	+12.5				49		
25	34	+11				45		
30	36	+9				45		
40	35	+6				41		
50	35	+4				39		
60	36	+3				39		
80	38	+1				39		
100	38	-1				37		
120	36	-2.5				33		
150	36	-3.5				32		

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	INT.	27290	SANDAU	2-15-63
TX/NF-105 S/N 1571				
			Plotted on page 35	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK ☐ TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT _____ MODE T4

Freq. Mc	Meter Reading dbuv/mc	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level DBuA/m	Spec. Limit	Remarks
.15	35	-4				31		
.20	34	-6				28		
.25	33	-7				26		
.30	34	-8.5				25		
.40	32	-10				22		
.50	29	-11				18		
.60	29	-11.5				17		
.80	30	-12.5				17		
1.0	32	-13				19		
1.2	31	-13				18		
1.5	30	-13.5				16		
2.0	31	-14				17		
2.5	30	-14				16		
3.0	29	-14				15		
4.0	31	-14				17		
5.0	31	-14				17		
6.0	32	-14				18		
8.0	29	-14				15		
10	28	-14				14		
12	29	-14				15		
15	32	-14				18		
20	32	-13.5				18		
25	35	-13				22		

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	445	27790	Sandu	2-15-63
			Plotted on page 35	

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BROADBAND & PULSED CW CONDUCTED DATA USING CURRENT PROBE

30 CPS to 15 KC PEAK [X] RMS [ ]

ITEM NO. A1284 SERIAL NO. 0004

	Mode	Test Point	Type	Meter Reading db/μv/20KC	Corr. Factor	Corrected Level db/μA/20KC	Spec. Limit db/μA/20KC	Remarks
	1	J09-1		113		113	100	
		J09-2		113		113		
		J09-3		113		113		
		J09-4		101		101		
	2	J09-1		119		119		
		J09-2		121		121		
		J09-3		125		125		
		J09-4		110		110		
		TP-1		39		39		
		TP-2		56		56		
	3	J09-1		124		124		S
		J09-2		125		125		S
		J09-3		125		125		S
		J09-4		114		114		S
		TP-2		45		45		
		TP-3		106		106		S
		TP-4		80		80		
		TP-5		99		99	100	

Type: Transient (T), Steady-State (S), Ambient (A), Threshold (TH)

METER	PROBE		OPERATORS	DATE
NM 40A S/N 310-4	345-25		HEWITT	[illegible]-63
			Plotted on page 36	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-1 MODE 1

Freq. KC	Meter Reading db/uv/mc	Probe Factor db/Ω	Antenna Factor	Cable Loss		Corrected Level db/ua/MC	Spec. Limit db/ua/MC	Remarks
15	137	+15				152	158	CW
21	137	+12				149	150	CW
27	138	+10				148	144	CW
32	137	+8.5				146	140	CW
41	133	+6				139	134	CW
51	131	+4				135	128	CW
60	131	+3				134	125	CW
80	132	+1				133	118	CW
100	130	-1				129	113	CW
120	127	-2.5				124	108	CW
141	127	-3.5				123	105	CW

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1885		SN 277-90	C. LINDER	2-21-63
T-X/NF-105 SN 1571	INTERNAL			
			Plotted on page 37	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE [X] STEADY STATE ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-1 MODE 1

Freq. MC	Meter Reading dB/μV/MC	Probe Factor dB/Ω	Antenna Factor	Cable Loss		Corrected Level dB/μA/MC	Spec. Limit dB/μA/MC	Remarks
.15	128	-4				124	103	
.20	127	-6				121	97	
.25	125	-7				118	91	
.30	122	-8.5				113	87	
.40	122	-10				112	79	
.50	119	-11				108	74	
.60	119	-11.5				107	70	
.80	114	-12.5				101	63	
1.0	107	-13				94	58	
1.2	101	-13				88	53	
1.5	90	-13.5				76	48	
2.0	75	-14				61	48	
2.5	71	↑				57	48	
3.0	68					54	47	
4.0	50					36	47	
5.0	41					27	46	
6.0	38					24	45	
8.0	29					15	45	TH
10.0	28					14	44	TH
12.0	29	↓				15	44	TH
15.0	32	-14				18	43	TH
20.0	32	-13.5				18	43	TH
25.0	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1865	IG-115 SN 449	SN 277-90	C. LINDER	2-21-63
			Plotted on page 37	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK ☒ TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-2 MODE 1

Freq. KC	Meter Reading dbμV/MC	Probe Factor db/Ω	Antenna Factor	Cable Loss		Corrected Level dbμA/MC	Spec. Limit dbμA/MC	Remarks
15	138	+15				153	158	CW
22	137	+12				149	149	CW
27	138	+10				148	144	CW
32	136	+8.5				145	140	CW
41	132	+6				138	134	CW
51	133	+4				137	128	CW
62	130	+3				133	124	CW
80	133	+1				134	118	CW
100	134	−1				133	113	CW
120	127	−2.5				124	108	CW
140	127	−3.5				123	105	CW

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1885		SN277-90	C. LINDER	2-21-63
T-X/NF-105 SN 1571	INTERNAL			
			Plotted on page 38	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-2 MODE 1

Freq. MC	Meter Reading db/uv/mc	Probe Factor db/n	Antenna Factor	Cable Loss		Corrected Level db/ua/mc	Spec. Limit db/ua/mc	Remarks
.15	127	-4				123	103	
.20	127	-6				121	97	
.25	124	-7				117	91	
.30	121	-8.5				112	87	
.40	123	-10				113	79	
.50	118	-11				107	74	
.60	119	-11.5				107	70	
.80	113	-12.5				100	63	
1.0	106	-13				93	58	
1.2	101	-13				88	53	
1.5	89	-13.5				75	48	
2.0	74	-14				60	48	
2.5	68	↑				54	48	
3.0	67					53	47	
4.0	51					37	47	
5.0	42					28	46	
6.0	35					21	45	
8.0	29					15	45	TH
10.0	28					14	44	TH
12.0	29	↓				15	44	TH
15.0	32	-14				18	43	TH
20.0	32	-13.5				18	43	TH
25.0	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1885	IG-115	SN 277-90	C. LINDER	2-21-63
	SN 449			
			Plotted on page 38	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK (B) TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-3 MODE 1

Freq. KC	Meter Reading db/μV/MC	Probe Factor db/m	Antenna Factor	Cable Loss		Corrected Level db/μa/MC	Spec. Limit db/μA/MC	Remarks
16	139	+14				153	157	CW
21	139	+12				151	150	CW
26	139	+10				149	145	CW
31	138	+9				147	141	CW
41	136	+6				142	134	CW
51	133	+4				137	129	CW
60	132	+3				135	125	CW
80	135	+1				136	118	CW
100	134	−1				133	113	CW
120	128	−2.5				125	108	CW
140	127	−3.5				123	105	CW

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1885		SN 277-90	G. LINDER	2-21-63
T-X/NF-105	INTERNAL			
			Plotted on page 39	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT 109-3 MODE 1

Freq. MC	Meter Reading dbμv/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level DBμA/MC	Spec. Limit dbμa/MC	Remarks
.150	129.	-4				125	103	
.20	127.	-6				121	97	
.25	125.	-7				118	91	
.30	122.	-8.5				113	87	
.40	122.	-10				112	79	
.50	119.	-11				108	74	
.60	119.	-11.5				107	70	
.80	109.	-12.5				96	63	
1.0	105.	-13				92	58	
1.2	100.	-13				87	53	
1.5	90.	-13.5				76	48	
2.0	74.	-14				60	48	
2.5	66.	↓				52	48	
3.0	69.					55	47	
4.0	50.					36	47	
5.0	40.					26	46	
6.0	33.					19	45	
8.0	29					15	45	TH
10.	28					14	44	TH
12.	29	↓				15	44	TH
15.	32	-14				18	43	TH
20.	32	-13.5				18	43	TH
25.	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	IG-115 SN449	277-90	LINDER	2-21-63
			Plotted on page 39	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J09-4 MODE 1

Freq. Kc	Meter Reading dB/μA/MC	Probe Factor DB/μ	Antenna Factor	Cable Loss		Corrected Level dB/μA/MC	Spec. Limit dB/μA/MC	Remarks
15	141	+15				156	158	
17	132	+14				146	155	CW
22	125	+12				137	149	CW
27	125	+10				135	144	CW
31	128	+9				137	141	CW
41	119	+6				125	134	CW
51	113	+4				117	129	CW
60	111	+3				114	125	CW
80	111	+1				112	118	CW
100	108	−1				107	113	CW
120	105	−2.5				102	108	CW
140	104	−3.5				100	105	CW

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885		277-90	Linder	2-21-63
TX/NF105 S/N 1571	INTERNAL			
			Plotted on page 40	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK ☒ TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT 109-4 MODE 1

Freq. Mc	Meter Reading dB/uv/Mc	Probe Factor DB/a	Antenna Factor	Cable Loss		Corrected Level dB/uA/MC	Spec. Limit dB/uA/Mc	Remarks
.15	105	-4				101	103	
.20	103	-6				97	97	
.25	103	-7				96	91	
.30	100	-8.5				91	87	
.40	98	-10				88	79	
.50	94	-11				83	74	
.60	92	-11.5				80	70	
.80	86	-12.5				73	63	
1.0	91	-13				78	58	
1.2	84	-13				71	53	
1.5	76	-13.5				62	48	
2.0	50	-14				36	48	
2.55	62	↑				48	48	CW
3.0	58					44	47	
4.0	36					22	47	
5.0	31					17	46	TH
6.0	32					18	45	TH
8.0	29					15	45	TH
10.	28					14	44	TH
12.	29	↓				15	44	TH
15.	32	-14				18	43	TH
20.	32	-13.5				18	43	TH
25.	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1825	IG-115 SN 449	277-90	Lindee	2-21-63
			Plotted on page 40	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X]

ITEM NO. A1234 SERIAL NO. 0004 TEST POINT J09-1 MO

Freq. KC	Meter Reading dB/uV/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level dB/uA/MC	Spec. Limit dB/uA/MC	Re
16	143	+14				157	157	
21	136	+12				148	150	
26	134	+10				144	145	
31	137	+9				146	141	
41	130	+6				136	134	
51	135	+4				139	129	
60	132	+3				135	125	
81	120	+1				121	118	
100	135	-1				134	113	
121	126	-2.5				123	108	
141	119	-3.5				115	105	

METER	IMPULSE GEN.	PROBE	OPERATORS
NF105 S/N 1885	INTERNAL	277/90	[illegible]
TX 1571			

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. 4128d SERIAL NO. 0004 TEST POINT J09-2 MODE 2

Freq. KC	Meter Reading dB/μA/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level dB/μA/MC	Spec. Limit dB/μA/MC	Remarks
16	144	+14				158	157	
21	133	+12				145	150	
27	136	+10				146	144	
32	136	+9				145	140	
41	133	+6				139	134	
51	135	+4				139	129	
60	134	+3				137	125	
84	129	+1				130	117	
101	135	-1				134	113	
120	128	-2.5				125	108	
140	128	-3.5				124	105	

METER	IMPULSE GEN.	PROBE	OPERATOR'S	DATE
NF 105 S/N 1885	INTERNAL	277-90	LINDER	2-25-63
TX S/N 1571				
			Plotted on page 42	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X] RMS [ ]

ITEM NO. 112 B4 SERIAL NO. 0004 TEST POINT J09-2 MODE 2

Freq. MC	Meter Reading dB/uV/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level dB/uA/MC	Spec. Limit dB/uA/MC	Remarks
.15	130	-4				126	103	
.20	130	-6				124	97	
.25	127	-7				120	91	
.30	125	-8.5				116	87	
.40	126	-10				116	79	
.50	121	-11				110	74	
.60	122	-12				110	70	
.80	110	-12.5				97	63	
1.0	107	-13				94	58	
1.2	101	-13				88	53	
1.5	87	-13.5				73	48	
2.0	77	-14				63	48	
2.5	73	-14				59	48	
3.0	59	-14				45	47	
4.0	40	-14				26	47	
5.0	31	-14				17	46	TH
6.0	32	-14				18	45	TH
8.0	29	-14				15	45	TH
10	28	-14				14	44	TH
12	29	-14				15	44	TH
15	32	-14				18	43	TH
20	32	-13.5				18	43	TH
25	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	IG115 S/N 449	277-90	LINDER	2-22-63
T/X S/N 1571				
			Plotted on page 42	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-3 MODE 2

Freq. KC	Meter Reading dbuv/mc	Probe Factor DB/n	Antenna Factor	Cable Loss		Corrected Level dbuA/MC	Spec. Limit dbuA/MC	Remarks
16	144	+14				158	157	
21	131	+12				143	150	
27	134	+10				144	144	
32	133	+9				142	140	
42	129	+6				135	133	
50	131	+4				135	129	
60	130	+3				133	125	
81	131	+1				132	118	
100	135	-1				134	113	
121	132	-2.5				129	108	
144	129	-3.5				125	105	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 889	INTERNAL	277-90	LINDER	2-20-63
TX S/N 1571				
			Plotted on page 43	

BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X] RMS [ ]

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-3 MODE 2

Freq. MC	Meter Reading dbμv/mc	Probe Factor db/Ω	Antenna Factor	Cable Loss		Corrected Level dBμv/mc	Spec. Limit dbμv/mc	Remarks
.15	130	-4				126	103	
.20	130	-6				124	97	
.25	128	-7				121	91	
.30	126	-8.5				117	87	
.40	124	-10				114	79	
.50	123	-11				112	74	
.60	116	-12				104	70	
.80	114	-12.5				101	63	
1.0	107	-13				94	58	
1.2	104	-13				91	53	
1.5	87	-13.5				73	48	
2.1	80	-14				66	48	
2.5	69	-14				55	48	
3.0	58	-14				44	47	
4.0	41	-14				27	47	
5.0	31	-14				17	46	TH
6.0	32	-14				18	45	TH
8.0	29	-14				15	45	TH
10	28	-14				14	44	TH
12	30	-14				16	44	
15	32	-14				18	43	TH
20	32	-13.5				18	43	TH
25	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	TG 115 S/N 441	277-90	LINDER	2-22-

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J09-4 MODE 2

Freq. Kc	Meter Reading dB/μV/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level dB/μA/MC	Spec. Limit dB/μA/MC	Remarks
15	132	+15				147	158	
17	130	+14				144	155	
21	123	+12				135	150	
27	128	+10				138	144	
31	126	+9				135	141	
42	118	+6				124	133	
52	116	+4				120	128	
61	112	+3				115	125	
81	113	+1				114	118	
100	114	-1				113	113	
120	110	-2.5				107	108	
140	106	-3.5				102	105	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885		27790	Lindner	2-21-63
TX/NF105 S/N 1571	INT			
			Plotted on page 44	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-4 MODE 2

Freq. MC	Meter Reading dB/uV/MC	Probe Factor dB/uA	Antenna Factor	Cable Loss		Corrected Level dB/uA/MC	Spec. Limit dB/uA/MC	Remarks
.15	107	-4				103	103	
.20	106	-6				100	97	
.25	106	-7				99	91	
.30	103	-8.5				94	87	
.40	102	-10				92	79	
.50	100	-11				89	74	
.60	95	-12				83	70	
.80	90	-12.5				77	63	
1.0	82	-13				69	58	
1.2	88	-13				75	53	
1.5	74	-13.5				60	48	
1.9	53	-14				39	48	
2.5	51	-14				37	48	
3.0	48	-14				34	47	
4.0	35	-14				21	47	
5.0	31	-14				17	46	TH
6.0	32	-14				18	45	TH
8.0	29	-14				15	45	TH
10	28	-14				14	44	TH
12	29	-14				15	44	TH
15	32	-14				18	43	TH
20	32	-13.5				18	43	TH
25	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	IG 115 S/N 449	277-90	Linder	2-25-63
			Plotted on page 44	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO A12E4 SERIAL NO. 0004 TEST POINT TP-1 MODE 2

Freq. KC	Meter Reading dBμv/mc	Probe Factor DB/	Antenna Factor	Cable Loss		Corrected Level dBμA/MC	Spec. Limit dBμA/MC	Remarks
15	86	+15				101	158	
21	71	+12.5				84	150	
26	64	+10				74	145	
30	61	+9				70	142	
41	64	+6				70	134	
50	65	+4				69	129	
60	70	+3				73	125	
80	73	+1				74	118	
100	76	-1				75	113	
120	74	-2.5				71	108	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885		277-90	HEWITT	2-25-63
TX SN 1571	INTERNAL			
			Plotted on page 45	

BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X] RMS [ ]

ITEM NO. A12B4 SERIAL NO. 0004 TEST POINT TP-1 MODE 2

Freq. MC	Meter Reading dB/μV/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level DB/μA/MC	Spec. Limit dB/μA/MC	Remarks
.15	71	-4				67	103	
.20	73	-6				67	97	
.25	74	-7				67	91	
.30	76	-8.5				67	87	
.40	80	-10				70	79	
.50	84	-11				73	74	
.60	84	-12				72	70	
.80	82	-12.5				69	63	
1.00	80	-13				67	58	
1.2	80	-13				67	53	
1.5	71	-13.5				57	48	
2.0	64	-14				50	48	
2.5	50	-14				36	48	
3.0	47	-14				33	47	
4.0	52	-14				38	47	
5.0	31	-14				17	46	TH
6.0	32	-14				18	45	TH
8.0	29	-14				15	45	TH
10.0	28	-14				14	44	TH
12	29	-14				15	44	TH
15.0	32	-14				18	43	TH
20.0	32	-13.5				18	43	TH
25.0	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1889	IG115 S/N 449	277-40	Hewitt	2-25-63
			Plotted on page 45	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X] RMS [ ]

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT TP-2 MODE 2

Freq. KC	Meter Reading dBuV/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level DBuA/MC	Spec. Limit dBuA/MC	Remarks
15	48	+15				63	158	
21	52	+12				64	150	
25	54	+11				65	146	
30	56	+9				65	142	
41	58	+6				64	134	
50	57	+4				61	129	
60	60	+3				63	125	
80	65	+1				66	118	
100	74	-1				73	113	
120	76	-2.5				73	108	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1889	INTERNAL	277-90	Hewitt	2-25-63
			Plotted on page 46	

BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X] RMS [ ]

ITEM NO. A12B4 SERIAL NO. 0004 TEST POINT IP-2 MODE 2

Freq. MC	Meter Reading db/uv/mc	Probe Factor db/Ω	Antenna Factor	Cable Loss		Corrected Level db/uA/MC	Spec. Limit db/uA/MC	Remarks
.15	72	-4				68	103	
.20	70	-6				64	97	
.25	72	-7				65	91	
.30	74	-8.5				65	87	
.40	78	-10				68	79	
.50	80	-11				69	74	
.60	80	-12				68	70	
.80	79	-12.5				66	63	
1.0	77	-13				64	58	
1.2	74	-13				61	53	
1.5	70	-13.5				56	48	
2.0	70	-14				56	48	
2.5	64	-14				50	48	
3.0	51	-14				37	47	
4.0	44	-14				30	47	
5.0	37	-14				23	46	
6.0	40	-14				26	45	
8.0	39	-14				25	45	
10.0	38	-14				24	44	
12.0	29	-14				15	44	TH
15.0	32	-14				18	43	TH
20.0	32	-13.5				18	43	TH
25.0	35	-13				22	42	TH

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF105 S/N 1885	EG115 S/N 449	277-90	HEWITT	2-25-63
			Plotted on page 46	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [ ] RMS [ ]

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-1 MODE 3

Freq. KC	Meter Reading dB/uV/MC	Probe Factor DB/a	Antenna Factor	Cable Loss		Corrected Level DB/uA/MC	Spec. Limit dB/uA/MC	Remarks
15	146	+15				161	158	SS-OFF
20	138	+12.5				151	151	SS-OFF
25	133	+11				144	146	ON
30	135	+9				144	142	SS-OFF
40	132	+6				138	134	ON
50	135	+4				139	129	ON
60	134	+3				137	125	ON
80	132	+1				133	118	ON
100	135	-1				134	113	ON
120	130	-2.5				127	108	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DA
NF 105 SN 1886	INTERNAL	277-90	LINDE	2-3
TX SN 1571				
			Plotted on page 47	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. 1284 SERIAL NO. 0004 TEST POINT J09-1 MODE 3

Freq. Mc	Meter Reading dBuv/mc	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level DBuA/mc	Spec. Limit dBuA/mc	Remarks
.15	131	-4				127	103	ON
.20	131	-6				125	97	ON
.25	130	-7				123	91	ON
.30	130	-8.5				121	87	ON
.40	128	-10				118	79	ON
.50	126	-11				115	74	ON
.60	125	-11.5				113	70	ON
.80	122	-12.5				109	63	ON
1.0	123	-13				110	58	ON
1.2	121	-13				108	53	ON
1.5	121	-13.5				107	48	ON
2.0	124	-14				110	48	ON
2.5	127					113	48	ON
3.0	121					107	47	ON
4.0	116					102	47	ON
5.0	110					96	46	ON
6.0	101					87	45	ON
8.0	100					86	45	ON
10.	95					81	44	ON
12.	92					78	44	ON
15.	90	-14				76	43	ON
20.	90	-13.5				76	43	ON
25.	92	-13				79	42	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	449	277-90	LINDER	2-22-63

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [ ] RMS [ ]

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J09-2 MODE 3

Freq. Kc	Meter Reading dBuv/m	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level DBuA/m	Spec. Limit dBuA/m	Remarks
15	146	+15				161	158	SS OFF
20	136	+12.5				149	151	SS OFF
25	134	+11				145	146	ON
30	136	+9				145	142	SS OFF
40	131	+6				137	134	SS OFF
50	136	+4				140	129	SS OFF
60	134	+3				137	125	SS OFF
80	134	+1				135	118	SS OFF
100	135	-1				134	113	SS OFF
120	134	-2.5				131	108	SS OFF

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885		277-90	How 10	2-22-63
TX/NF-105 S/N 1571	INT			
			Plotted on page 48	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. 4 1384 SERIAL NO. 0004 TEST POINT J09-2 MODE 3

Freq. Mc	Meter Reading dbμv/mc	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level dbμA/mc	Spec. Limit dbμA/mc	Remarks
.15	131	-4				127	103	ON
.20	131	-6				125	97	35 ON
.25	129	-7				122	91	ON
.30	130	-8.5				121	87	ON
.40	129	-10				119	79	ON
.50	126	-11				115	74	ON
.60	125	-11.5				113	70	ON
.80	125	-12.5				112	63	ON
1.0	123	-13				110	58	ON
1.2	123	-13				110	53	ON
1.5	122	-13.5				108	48	ON
2.0	124	-14				110	48	ON
2.5	134	↑				120	48	ON
3.0	121					107	47	ON
4.0	115					101	47	ON
5.0	111					97	46	ON
6.0	102					88	45	ON
8.0	104					90	45	ON
10.	98					84	44	ON
12.	100	↓				86	44	ON
15.	92	-14				78	43	ON
20.	88	-13.5				74	43	ON
25.	97	-13				86	42	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1882	449	277-90	Hew [illegible]	2-22-63
			Plotted on page 41	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [ ] RMS [ ]

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-3 MODE 3

Freq. KC	Meter Reading dbuv/m	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level DBuv/m	Spec. Limit dbuA/m	Remarks
15	145	+15				160	158	SS OFF
20	135	+12.5				148	151	SS OFF
25	134	+11				145	146	OFF
30	135	+9				144	142	ON
40	131	+6				137	134	ON
50	132	+4				136	129	ON
60	132	+3				135	125	SS OFF
80	132	+1				133	118	SS OFF
100	133	-1				132	113	SS OFF
120	134	-2.5				131	108	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885		27790	LINDER	3-22-63
TXLINE 105 S/N 1571	INT			
			Plotted on page 44	

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BOEING VOL. II SEC. III NO. T2-2786 PAGE 105

BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [ ] RMS [ ]

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J09-3 MODE 3

Freq. Mc	Meter Reading dBμv/mc	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level dBμv/mc	Spec. Limit dBμv/mc	Remarks
.15	130	-4				126	103	ON
.20	130	-6				124	97	ON
.25	129	-7				122	91	ON
.30	128	-8.5				119	87	ON
.40	128	-10				118	79	SS ON
.50	125	-11				114	74	ON
.60	127	-11.5				115	70	ON
.80	122	-12.5				109	63	ON
1.0	122	-13				109	58	ON
1.2	120	-13				107	53	ON
1.5	119	-13.5				105	48	ON
2.0	124	-14				110	48	ON
2.5	121	↑				107	48	ON
3.0	119					105	47	ON
4.0	110					96	47	ON
5.0	109					95	46	ON
6.0	100					86	45	ON
8.0	91					77	45	ON
10.	90					76	44	ON
12.	90	↓				76	44	ON
15.	90	-14				76	43	ON
20.	87	-13.5				73	43	ON
25.	92	-13				79	42	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	449	27790	LINDER	2-22-63
			Plotted on page 49	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B. TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-A MODE 3

Freq. KC	Meter Reading dBuV/MC	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level DBuA/MC	Spec. Limit dBuA/MC	Remarks
15	134	+15				149	158	OFF
20	128	+12.5				141	151	ON
25	120	+11				131	146	OFF
30	128	+9				137	142	OFF
40	142	+6				148	134	OFF
50	137	+4				141	129	OFF
60	132	+3				135	125	OFF
80	128	+1				129	118	OFF
100	130	-1				129	113	OFF
120	125	-2.5				122	108	OFF

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	INT	27290	HEWITT	2-22-63
TX/NF105 S/N 1571				
			*Plotted on page 50	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J09-4 MODE 3

Freq. Mc	Meter Reading db/uv/mc	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level db/uv/mc	Spec. Limit db/uv/mc	Remarks
.15	135	-4				131	103	ON
.20	135	-6				129	97	ON
.25	126	-7				119	91	ON
.30	125	-8.5				116	87	ON
.40	128	-10				118	79	ON
.50	125	-11				114	74	ON
.60	126	-11.5				114	70	ON
.80	124	-12.5				111	63	ON
1.0	122	-13				109	58	ON
1.2	119	-13				106	53	ON
1.5	118	-13.5				104	48	ON
2.0	121	-14				107	48	ON
2.5	118					104	48	ON
3.0	103					89	47	ON
4.0	100					86	47	ON
5.0	105					91	46	ON
6.0	100					86	45	ON
8.0	96					82	45	ON
10.	95					81	44	ON
12.	97					83	44	ON
15.	87	-14				73	43	ON
20.	88	-13.5				74	43	ON
25	97	-13				84	42	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	447	277-90	HEWITT	2-22-65
			Plotted on page 50	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [ ] RMS [ ]

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT TP 2 MODE 3

Freq. KC	Meter Reading db/uv/mc	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level DB/uA/MC	Spec. Limit db/uA/MC	Remarks
15	70	+15				85	158	OFF
20	68	+12.5				81	151	OFF
25	71	+11				82	146	OFF
30	69	+9				78	142	ON
40	71	+6				77	134	ON
50	72	+4				76	129	ON
60	72	+3				75	125	ON
80	70	+1				71	118	ON
100	78	-1				77	113	OFF
120	76	-2.5				73	108	OFF

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885		277-90	LINDER	2-20-63
FX NF-105 S/N 1521	INT.			
			Plotted on page 51	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. 21284 SERIAL NO. 0004 TEST POINT TP 2 MODE 3

Freq. Mc	Meter Reading db/uv/mc	Probe Factor db/n	Antenna Factor	Cable Loss		Corrected Level db/uA/mc	Spec. Limit db/uA/mc	Remarks
.15	72	-4				68	103	ON
.20	72	-6				66	97	ON
.25	71	-7				64	91	ON
.30	75	-8.5				66	87	ON
.40	79	-10				69	79	SS OFF
.50	81	-11				70	74	SS OFF
.60	81	-11.5				69	70	SS OFF
.80	80	-12.5				67	63	SS OFF
1.0	84	-13				71	58	ON
1.2	94	-13				81	53	ON
1.5	97	-13.5				84	48	ON
2.0	100	-14				86	48	ON
2.5	94	↑				80	48	ON
3.0	95					81	47	ON
4.0	83					69	47	ON
5.0	84					70	46	ON
6.0	86					72	45	ON
8.0	86					72	45	ON
10.	78					64	44	ON
12.	84	↓				70	44	ON
15.	79	-14				65	43	ON
20.	77	-13.5				63	43	ON
25.	79	-13				66	42	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	449	277-90	BINDER	2-22-6

Plotted on page 51

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. A12B4 SERIAL NO. 0004 TEST POINT TP 3 MODE 3

Freq. KC	Meter Reading db/uv/MC	Probe Factor DB/MC	Antenna Factor	Cable Loss		Corrected Level db/uA/MC	Spec. Limit db/uA/MC	Remarks
15	120	+15				135	158	ON
20	128	+12.5				141	151	ON
25	130	+11				141	146	ON
30	131	+9				140	142	ON
40	130	+6				136	134	ON
50	130	+4				134	129	ON
60	130	+3				133	125	ON
80	130	+1				131	118	ON
100	130	−1				129	113	ON
120	131	−2.5				128	108	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 103 SN 1885	INTERNAL	277-90	HEWITT	2-22-63
1571				
			Plotted on page 52	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [ ] RMS [ ]

ITEM NO A1284 SERIAL NO. 0004 TEST POINT IP3 MODE 3

Freq. MC	Meter Reading db/uv/mc	Probe Factor db/m	Antenna Factor	Cable Loss		Corrected Level db/uA/mc	Spec. Limit db/uA/mc	Remarks
.15	132	-4				128	103	ON
.20	129	-6				123	97	ON
.25	130	-7				123	91	ON
.30	127	-8.5				118	87	ON
.35	126	-10				116	79	ON
.40	128	-11				117	74	ON
.50	127	-11.5				115	70	ON
.60	124	-12.5				111	63	ON
1.0	120	-13				107	58	ON
1.2	116	-13				103	53	ON
1.5	114	-13.5				100	48	ON
2.0	118	-14				104	48	ON
2.5	109	↓				95	48	ON
3.0	112					98	47	ON
4.0	113					99	47	ON
5.0	112					98	46	ON
6.0	104					90	45	ON
8.0	106					92	45	ON
10.0	105					91	44	ON
12.0	105					91	44	ON
15.0	111	-14				97	43	ON
20.0	95	-13.5				81	43	ON
25.0	88	-13				75	42	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	449	271-95	Hewitt	2-22-63
			Plotted on page 52	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☐

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT TP-4 MODE 3

Freq. KC	Meter Reading dBμv/KC	Probe Factor DB/n	Antenna Factor	Cable Loss		Corrected Level DBμv/m	Spec. Limit dBμA/m	Remarks
15	81	+15				96	158	SS OFF
20	77	+12.5				90	151	ON
25	83	+11				94	146	ON
30	92	+9				101	142	ON
40	79	+6				85	134	ON
50	70	+4				74	129	ON
60	61	+3				64	125	ON
80	71	+1				72	118	ON
100	80	-1				79	113	ON
120	81	-2.5				78	108	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885		277-90	LINDER	2-22-63
TX/NF105 S/N 1571	1 NO			
			Plotted on page 53	

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BROADBAND [X] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [X] PEAK [X]

NARROW-BAND [ ] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [ ] RMS [ ]

ITEM NO. 1284 SERIAL NO. 0004 TEST POINT TP-4 MODE 3

Freq. Mc	Meter Reading db/uA/Mc	Probe Factor Db/m	Antenna Factor	Cable Loss		Corrected Level db/uA/Mc	Spec. Limit db/uA/Mc	Remarks
.15	80	-4				76	103	ON
.20	79	-6				73	97	SS OFF
.25	80	-7				73	91	ON
.30	82	-8.5				73	87	ON
.40	85	-10				75	79	SS ON
.50	84	-11				73	74	ON
.60	86	-11.5				74	70	ON
.80	88	-12.5				75	63	ON
1.0	93	-13				80	58	ON
1.2	91	-13				78	53	ON
1.5	94	-13.5				80	48	ON
2.0	95	-14				81	48	ON
2.5	101	↑				87	48	ON
3.0	97					83	47	ON
4.0	102					88	47	ON
5.0	98					84	46	ON
6.0	97					83	45	ON
8.0	82					68	45	ON
10	92					78	44	ON
12	96	↓				82	44	ON
15	90	-14				76	43	ON
20	97	-13.5				83	43	ON
25	96	-13				83	42	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	449	277-90	LINDER	2-22-63
			Plotted on page 53	

BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK B TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT TP-5 MODE 3

Freq. KC	Meter Reading dB/uV/MC	Probe Factor DB/c	Antenna Factor	Cable Loss		Corrected Level dB/uA/MC	Spec. Limit dB/uA/MC	Remarks
15	103	+15				118	158	SS-ON
20	88	+12.5				101	151	SS-ON
25	95	+11				106	146	ON
30	102	+9				111	142	ON
40	97	+6				103	134	ON
50	87	+4				91	129	ON
60	77	+3				80	125	SS ON
80	85	+1				86	118	SS ON
100	82	-1				81	113	ON
120	83	-2.5				80	108	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	INTERNAL	277-90	Hewitt	2-22
TX S/N 1571				
			Plotted on page 54	

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BROADBAND ☒ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☒ PEAK ☒

NARROW-BAND ☐ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☐ RMS ☐

ITEM NO. A12 3H SERIAL NO. 0004 TEST POINT TP-5 MODE 3

Freq. mc	Meter Reading db/uv/mc	Probe Factor db/m	Antenna Factor	Cable Loss		Corrected Level db/uA/mc	Spec. Limit db/uA/mc	Remarks
.15	88	-4				84	103	ON
.20	80	-6				74	97	ON
.25	82	-7				75	91	ON
.30	79	-8.5				70	87	ON
.40	81	-10				71	79	ON
.50	81	-11				70	74	ON
.60	77	-11.5				65	70	ON
.80	79	-12.5				66	63	ON
1.0	78	-13				65	58	ON
1.2	77	-13				64	53	ON
1.5	84	-13.5				70	48	ON
2.0	99	-14				85	48	ON
2.5	111	↑				97	48	ON
3.0	108					94	47	ON
4.0	98					84	47	ON
5.0	102					88	46	ON
6.0	105					91	45	ON
8.0	111					97	45	ON
10.0	102					88	44	ON
12.0	106	↓				92	44	ON
15.0	87	-14				73	43	ON
20.0	90	-13.5				76	43	ON
25.0	102	-13				89	42	ON

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S.N 1955T	EG 115 SN 449	2.77-80	HEWITT	2-22-63
			Plotted on page 54	

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BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-1 MODE 1

Freq. KC	Meter Reading DB/μV	Probe Factor db/Ω	Antenna Factor	Cable Loss		Corrected Level db/μA	Spec. Limit db/μA	Remarks
15	82	+15				97	82	
21	79	+12				91	77	
27	77	+10				87	74	
32	77	+8.5				86	71	
41	75	+6				81	68	
51	73	+4				77	65	
60	72	+3				75	63	
80	74	+1				75	59	
100	75	-1				74	56	
120	70	-2.5				67	53	
141	67	-3.5				63	51	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1885		SN 277-90	C. LINDER	2-21-63
T-X/NF-105 SN 1571	INTERNAL			
			Plotted on page 55	

2-5493-0-1

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BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-2 MODE 1

Freq. KC	Meter Reading db/μV	Probe Factor db/Ω	Antenna Factor	Cable Loss		Corrected Level db/μA	Spec. Limit db/μA	Remarks
15	79	+15				94	82	
22	79	+12				91	76	
27	78	+10				88	74	
32	77	+8.5				86	71	
41	75	+6				81	68	
51	72	+4				76	65	
62	72	+3				75	62	
80	71	+1				72	59	
100	74	−1				73	56	
120	70	−2.5				67	53	
140	68	−3.5				64	51	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1885		SN 277-90	C. LINDER	2-21-63
T-X/NF-105 SN 1571	INTERNAL			
			Plotted on page 56	

2-5493-0-1

APR 8 1963

BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. A1284 SERIAL NO. 0004 TEST POINT J09-3 MODE 1

Freq. KC	Meter Reading dt/μV	Probe Factor dt/Ω	Antenna Factor	Cable Loss		Corrected Level dt/μA	Spec. Limit dt/μA	Remarks
16	80	+14				94	81	
21	81	+12				93	77	
26	80	+10				90	74	
31	80	+9				89	72	
41	78	+6				84	68	
51	76	+4				80	65	
60	75	+3				78	63	
80	75	+1				76	59	
100	77	−1				76	56	
120	71	−2.5				68	53	
140	69	−3.5				65	51	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 SN 1885		SN277-90	C. LINDER	2-21-63
T-X/NF-105 SN 1571	INTERNAL			
			Plotted on page 57	

BROADBAND [ ] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [ ]

NARROW-BAND [X] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X] RMS [X]

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J 09-4 MODE 1

Freq. Kc	Meter Reading DB/uv	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level DB/uA	Spec. Limit dB/uA	Remarks
17	72	+14				86	80	
22	66	+12				78	76	
27	65	+10				75	74	
31	68	+9				77	72	
41	60	+6.5				67	68	
51	54	+4				58	65	
60	52	+3				55	63	
80	52	+1				53	59	
100	52	-1				51	56	
120	46	-2.5				43	53	
140	45	-3.5				41	51	
MC								
2.55	28	-7.5				20	4	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	IG-115 SN 449	277-90	LINDER	2-21-63
TX/NF-105 S/N 1571	INTERNAL			
			Plotted on page 58	

BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. 1284 SERIAL NO. 0004 TEST POINT J09-1 MODE 2

Freq. Kc	Meter Reading DBuV	Probe Factor DB/a	Antenna Factor	Cable Loss		Corrected Level DBuA	Spec. Limit dB/uA	Remarks
16	76	+14				90	81	
21	77	+12				89	77	
26	74	+10				84	74	
31	76	+9				85	72	
41	70	+6				76	68	
51	74	+4				78	65	
60	72	+3				75	63	
81	70	+1				71	59	
100	77	-1				76	56	
121	69	-2.5				66	53	
141	70	-3.5				66	51	
MC								
.67	59	-12				47	25	
.83	55	-12.5				42	21	
1.0	52	-13				39	17	
1.6	32	-13.5				18	9	
2.0	28	-14				14	5	
2.5	26	-19				12	5	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	IG-115 SN 449	277-90	Lindner	2-25-63
TX/NF-105 S/N 1571	INTERNAL			
			Plotted on page 59	

BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J09-2 MODE 2

Freq. KC	Meter Reading DBuV	Probe Factor DB/a	Antenna Factor	Cable Loss		Corrected Level DBuA	Spec. Limit dB/uA	Remarks
16	85	+14				99	81	
21	75	+12				87	77	
27	76	+10				86	74	
32	75	+9				84	71	
41	73	+6				79	68	
51	74	+4				78	65	
60	74	+3				77	63	
84	70	+1				71	58	
101	75	-1				74	56	
120	69	-2.5				66	53	
140	70	-3.5				66	51	
MC								
1.0	52	-13				39	17	
1.2	48	-13				35	14	
2.0	24	-14				10	5	
2.5	25	-14				11	5	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	IG-115 SN949	277-90	LINDER	2-25-63
Tx/NF105 S/N 1571	INTERNAL			
			Plotted on page 60	

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BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK (B) TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT 109-3 MODE 2

Freq. Kc	Meter Reading DB/uV	Probe Factor DB/m	Antenna Factor	Cable Loss		Corrected Level DB/uA	Spec. Limit db/uA	Remarks
16	85	+14				99	81	
21	74	+12				86	77	
27	75	+10				85	74	
32	74	+9				83	71	
42	71	+6				77	67	
50	72	+4				76	65	
60	73	+3				76	63	
81	71	+1				72	59	
100	76	-1				75	56	
121	70	-2.5				67	53	
144	69	-3.5				65	51	
MC								
1.0	53	-13				40	17	
1.2	50	-13				37	14	
2.1	27	-14				13	5	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1825	IG-115 SN449	27790	LINDER	2-25-63
TX/NF-105 S/N 1571	INTERNAL			
			Plotted on page 61	

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BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. A 1284 SERIAL NO. 0004 TEST POINT J09-4 MODE 2

Freq. KC	Meter Reading DB/uv	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level DB/uA	Spec. Limit dB/uA	Remarks
17	80	+ 14				94	80	
21	68	+ 12				80	77	
27	64	+ 10				74	74	
31	67	+ 9				76	72	
42	60	+ 6				66	67	
52	59	+ 4				63	65	
61	54	+ 3				57	62	
81	53	+ 1				54	59	
100	55	− 1				54	56	
120	49	−2.5				46	53	
140	45	−3.5				41	51	
MC								
.5	50	−11				39	29	
1.2	35	−13				22	14	
1.9	5	−14				−9	5	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF-105 S/N 1885	IG-115 SN 449	277-90	LINDER	2-21-63
TX/NF-105 S/N 1571	INTERNAL			
			Plotted on page 62	

BROADBAND [ ] RADIATED [ ] STABILIZATION NETWORK [B] TRANSIENT [ ] PEAK [ ]

NARROW-BAND [X] CONDUCTED [X] CURRENT PROBE [X] STEADY STATE [X] RMS [X]

ITEM NO A1284 SERIAL NO. 0004 TEST POINT TP-1 MODE 2

Freq. KC	Meter Reading DBuv	Probe Factor db/a	Antenna Factor	Cable Loss		Corrected Level DBuA	Spec. Limit dt/uA	Remarks
15	20	+15				35	82	
21	25	+12				37	77	
41	1	+6				7	68	
MC								
.56	25	-11				14	27	
2.1	11	-14				-3	5	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	IG-115 SN 449	277-9D	HEWITT	2-25-63
TX S/N 1571	INTERNAL			
			Plotted on page 63	

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BROADBAND ☐ RADIATED ☐ STABILIZATION NETWORK [B] TRANSIENT ☐ PEAK ☐

NARROW-BAND ☒ CONDUCTED ☒ CURRENT PROBE ☒ STEADY STATE ☒ RMS ☒

ITEM NO. 12284 SERIAL NO. 0004 TEST POINT TP-2 MODE 3

Freq. KC	Meter Reading DB/uV	Probe Factor DB/Ω	Antenna Factor	Cable Loss		Corrected Level DB/uA	Spec. Limit dB/uA	Remarks
100	18	-1				17	56	
120	15	-2.5				12	53	
MC								
.56	52	-11.5				40	27	
1.2	26	-13				13	14	
2.1	15	-14				1	5	

METER	IMPULSE GEN.	PROBE	OPERATORS	DATE
NF 105 S/N 1885	IG 115 S/N 449	277-90	HEWITT	2-25-63
TX S/N 1571	INTERNAL			
			Plotted on page 64	

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APPENDIX VI

Abbreviations, Symbols and Definitions

E-I	Electro-Interference
V/A	Vertical Antenna
D/A	Dipole Antenna
TH	Threshold (Meter noise background plus transducer factor)
AMB	Ambient
SS	Steady-State
CW	Continuous Wave
TP	Test Point
SN	Serial Number
DB	Decibel
DB/uV	Decibels above one microvolt
DB/uV/MC	Decibels above one microvolt per megacycle bandwidth
DB/uA/MC	Decibels above one microampere per megacycle bandwidth
DB/uA/20 KC	Decibels above one microampere per 20 kilocycles bandwidth

Added 4-8-63

APPENDIX VII

M&IR Paperwork (Quality Control Approval)

Added 4-8-63

INCR	M	M	PART NUMBER	SERIAL NUMBER	MFG. UNIT NO.	MFG. PLAN DATE	M & IR	PAGE
	M		25-22552-36	0004		2/8/3	U3 4283 2008 REV. 7/61 DWG. & PART NO. CHG. INDEX	1 OF 4

CON	WORK ORDER	SUB	ACC. SERIAL NO.	EFFECTIVITY	START SCHED.	COMP. SCHED.	ORIG. PLAN DATE	PLANNED BY	PLNG. APPROVAL	QC APPROVAL
				E-I TEST ONLY	074	087	2-8-3	G. HOFFERBERT 5-3508	Kennedy	Hiller 2-8-3

CON	WORK ORDER	ENG JOB NO.	EXP. REF. NO.	EWA NUMBER	SUB	ACC SERIAL NO.	ETPR NUMBER	REVISION BY	PLNG APPROVAL	QC APPROVAL
5	78105	57735	50517	04060	8640	540602	07863			

P.A. DATE	BUDG. APPROVAL	SHOP	BUDG.	SHOP	BUDG.	SHOP	BUDG.	SHOP	BUDG.	ITEM NUMBER	MODEL	PROCESS NUMBER
	Th. Thiland	2-3639	320							FIG A 1284	WS 133 A	[illegible]

DRAWING OR DOCUMENT NO.	ADCN-DCN-ADRN	SHEET NO.	CHANGE NO.	SUPPLEMENT PAGE	PART NO.	EFFECTIVITY	INSPECTION	DATE
			— RELIABILITY ITEM —					
			ELECTRO-INTERFERENCE TEST					
25-22552	ADCN 68/E	1	ECP 186	(REF ONLY)				
D2-11802								

IN 2-3639
0 73 3801

NOTE: THIS ORDER RELEASED TO ACCOMPLISH ELECTRO-INTERFERENCE TESTING OF FIGURE A 1284 PER EWA 4060

PAGE	JOB NUMBER	TASK NUMBER	PART NUMBER	NOMENCLATURE	LEAD INSP. STAMP	LEAD INSP. DATE	INSP. REC. STAMP	INSP. REC. DATE	CUST
1 OF 4	51268	E4-20	25-22552-36	POWER SUPPLY GROUP LF (FIG A 1284)	[illegible]	3/4/3			

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INCR	M	M REC.	PART NUMBER	SERIAL NUMBER	MFG. UNIT NO.	MFG. PLAN DATE	U3 4283 2017 ORIG. 8/61	M & IR PARTS LIST PAGE	PAGE 2 OF
	M		25-22552-36	0004					

CON	WORK ORDER	SUB	ACC. SERIAL NO.	EFFECTIVITY	START SCHED.	COMP. SCHED.	ORIG. PLAN DATE	PLANNED BY	PLNG. APPROVAL	Q.C. APPROVAL
							2-7-3	HOFFERBERT	[signature]	Hidden

CON	WORK ORDER	ENG. JOB NO.	EXP. REF. NO.	EWA NUMBER	SUB	ACC. SERIAL NO.	ETPR NUMBER	REVISION BY	PLNG. APPROVAL	Q.C. APPROVAL
5	78105	57735	50517	04060	8640	540602	07863			

P.A. DATE	BUDG. APPROVAL	SHOP	BUDG.	SHOP	BUDG.	SHOP	BUDG.	SHOP	BUDG.	ITEM NUMBER	MODEL	PROCESS NUMBER
										FIGA 1284	WS133A	

PRODUCTION SHOP	ROUTING:	PARTS LISTING INCLUDES PAGES	PARTS LISTING REV. DATES
2/3639	WHSE TO SHOP 2/3639, 9.101-2 COL R-17	#2	

PART NUMBER	NOMENCLATURE	M&IR REQ'D	SERIAL NUMBER REQUIRED	DRAWING USED ON ASSY. NO.	INST. LOC.	F/T DATE	QTY.	M & IR PART NO. & ER SERIAL NO.	SHOP STAMP	Q.C. STAMP	DATE	REMARKS
25-22552-36	P/S GROUP	[initials]	2/18/3 0004				1					
25-28997	LOAD SIMULATOR	[initials]	2-18-3 0001				1					

USED ON	USING SHOP	PER UNIT	FROM	THRU	REPLACES
END ITEM					
					REPLACED BY

PAGE	JOB NUMBER	GROUP CODE	PART NUMBER	NOMENCLATURE	LEAD INSP. STAMP	LEAD INSP. DATE	INSP. REC. STAMP	INSP. REC. DATE	CUST.
2	51268	E4-20	25-22552-36	POWER SUPPLY GROUP LF (FIG A 1284)	[initials]	4/3			

M	M SPEC.	PART NUMBER	SERIAL NUMBER	MFG. UNIT NO.	MFG. PLAN DATE	US 4283 3001 ORIG. 9/61	M & IR TEST EQUIPMENT INDEX	PAGE 3 OF
	M	5-22552-36	0004					

MODEL	EXP. REF. NO.	ORIG. PLAN DATE	PLANNED BY	ENG. APPROVAL	QC APPROVAL	REVISION BY	ENG. APPROVAL	QC APPROVAL
MM	50517	2-8-3	HOFFERBERT	[signature]	Hidden			

PART NUMBER	MODEL NO.	NOMENCLATURE	SERIAL NO.	CERTIFICATION EXPIRATION DATE	ER SERIAL NO.	REMARKS
BAC 513819	NF-105	NOISE & F.I. METER	1885	22 APR 63	C. Linder 534-30-6798	2/18
BAC X 90847	IG-115	UHF IMPULSE GEN	449	9 APR 63	C. Linder 534-30-6798	2/18
BAC X 098077	91550-1	RF CURRENT PROBE	277-90	—	[illegible]	2/18
BAC 520945	TX/NF105	TUNING UNIT	1571	14 MAY 63	C. Linder 534-30-6798	2-25-63
BAC 199456	NM40A	FIELD INTENSITY METER	310-4	15 MAR 63	[illegible]	2-27-3
BAC-513814 91550-1	STODDARD	CURRENT PROBE	345-25	—	[illegible]	2-27-3
BAC 199022	545A TEKTRONICS	OSCILLOSCOPE	~~545A~~ 024657	10 APR 63	C. Linder 534-30-6798	2-28-3
BAC 190270	CA TEKTRONICS	PLUG-IN UNIT	~~CA~~ 012400	1 MAR 63	C. Linder 534-30-6798	2-28-3
BAC 512826	606A	SIGNAL GENERATOR H/P	038-01883	10 MAY 63	[illegible]	2-28-3
PFC 6310	803	DC-AC VOLTMETER FLUKE	2557	26 MARCH 63	[illegible]	2-28-3
BAC 167815	612A	SIG GEN HEWLETT PACKARD	1332	22 APR 63	C. Linder 534-30-6798	2-28-3
BAC 153357	608C	SIG GEN HEWLETT PACKARD	1552	11 APR 63	C. Linder 534-30-6798	2-28-3
BAC 198755	481	DIGITAL VM NON-LINEAR SYSTEMS, INC	11.2729	14 MAR 63	[illegible]	2-28-3
BAC 109437	50-W-2	McINTOSH AMP.	3615	6-17-63	C. Linder 534-30-6798	3-1-3
BAC X 105085	—	30 A SHUNT	—	12 APR 63	[illegible]	3-1-3
BAC 103375	205AG	HP AUDIO SIG GEN	—	16 MAY 63	[illegible]	3-1-3
—	744	AC AMMETER	—	11 APR 63	[illegible]	3-1-3

(Q.C.) AIR FORCE VERIFICATION _____ DATE _____

PAGE	JOB NUMBER	TASK NUMBER	PART NUMBER	NOMENCLATURE	LEAD INSP. STAMP	LEAD INSP. DATE	INSP. REC. STAMP	INSP. REC. DATE	CUST.
3 OF	51268		25-22552-36	POWER SUPPLY GROUP LF (FIG A 1284)	[illegible]	3/4/3			

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N	N SPEC	PART NUMBER	SERIAL NUMBER	MFG. UNIT NO.	MFG. PLAN DATE	U3 4288 3004	M & IR	ORIG 7/61	PAGE 4 OF 4
M		22552-36	0004				MANUFACTURING & INSPECTION RECORD		

MODEL	EXP. REF. NO.	ORIG. PLAN DATE	PLANNED BY	PLNG. APPROVAL	QC APPROVAL	REVISION BY	PLNG. APPROVAL	QC APPROVAL
MM	50517	2-8-3	O. HOFFERBERT	Kennedy	Hiller 2-8-3			

SHOP & SCHEDULE	OPER. SEQUENCE NUMBER	FACTORY WORK CENTER/TOOL	LABOR STD. SET-UP	LABOR STD. RUN	MANUFACTURING OR TESTING PROCESS	INSP.	ER SUPPL. SERIAL NO.	SHOP STAMP	OPERATION ACCEPTANCE INSP	OPERATION ACCEPTANCE DATE
2-3639 074/687	10				INSPECTION VERIFY THAT TEST SAMPLE HAS PASSED F/T PRIOR TO START OF E-I TEST.					2/18/3
	20				SETUP FOR TEST PER DOCUMENT D2-11802.		U202440			
	30				DRAW TEST EQUIPMENT & LOG ON PAGE 3.					
	40				PERFORM E-I TEST COMPLETE PER D2-9801 & D2-11802; RECORD DATA.					
	50				RECORD TOTAL RUNNING TIME 53.4 ENTER TEST REPORT NUMBER T2-2786-3 TEST COMPLETE C. Tracy (Engineer) DATE 3-4-63					
	60				INSPECTION VERIFY COMPLETION OF OPERATIONS 20 THRU 50.					3/4/3
DISPATCH					ROUTE COMPLETED ORDER TO M & ES PCR.					
2-3970	PCR				REPRODUCE & ROUTE ORDER.					

PAGE	JOB NUMBER	TASK NUMBER	PART NUMBER	NOMENCLATURE	LEAD INSP STAMP	LEAD INSP DATE	INSP REC STAMP	INSP REC DATE	CUST
4 OF 4	51268		25-22552-36	POWER SUPPLY GROUP LF (FIG A 1284)		3/4/3			

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BOEING
INTEGRATED RECORD SYSTEM
PLANNED EVENT (1st P[illegible])

PAGE 1 OF 1

INCR	M	M SPEC.	PART NUMBER	SERIAL NUMBER	MFG. UNIT NO.	MFG. PLAN DATE
			25-28997	0001		2/4/3

CON	WORK ORDER	SUB	ACC. SERIAL NO.	EFFECTIVITY	START SCHED.	COMP. SCHED.	ORIG. PLAN DATE	PLANNED BY	PLNG. APPROVAL	Q.C. APPROVAL
				E-I TEST	074	087	2-8-3	HOFFERBERT	[signature]	

CON	WORK ORDER	ENG. JOB NO.	EXP. REF. NO.	EWA NUMBER	SUB	ACC. SERIAL NO.	ETPR NUMBER	REVISION BY	PLNG. APPROVAL	Q.C. APPROVAL
5	78105	57735	50845	4060	8640	540601	07863			

P.A. DATE	BUDG. APPROVAL	SHOP	BUDG.	SHOP	BUDG.	SHOP	BUDG.	SHOP	BUDG.	ITEM NUMBER	MODEL	PROCESS NUMBER
	[signature]	2/3639	Ø							E-I LOAD (1284)	WS133A	096031

PART NUMBER	NOMENCLATURE	M&IR REQ'D	SERIAL NUMBER REQUIRED*	DRAWING USED ON ASSY. NO.	INST. LOC.	F/T DATE	QTY.	M & IR PART NO. & ER SERIAL NO.	SHOP STAMP	Q.C. STAMP	DATE	REMARKS

SHOP & SCHEDULE	OPER. SEQUENCE NUMBER	FACTORY WORK CODE/TOOL	LABOR STD. SET-UP	LABOR STD. RUN	MANUFACTURING OR TESTING PROCESS	INSP.	ER/SUPPL. SERIAL NO.	SHOP STAMP	OPERATION ACCEPTANCE INSP	OPERATION ACCEPTANCE DATE
					SHOP RESIDENT ACCOUNTABILITY AND PART CONFIGURATION CONTROL ORDER					
					THIS ORDER INVALID AFTER COMPLETION SCHEDULE DATE RECORDED ABOVE					
					GENERAL NOTES: This order provides accountability for General Maintenance, Time and Cycle, Engineering Evaluation & testing as recorded on attached UERs and/or UE-Eng'r. Instruction, Data, Graph-Data and Sketch Data Sheets.					
2/3639	010				Attach UERs per General Notes as required.		U202433			
074/087	020				If testing is required as a result of Oper. 010, Log tests and results on UE-Eng'r. Instr., Data, Graph Data and/or Sketch Data Sheets and attach to this order.	3/4/3		IN 2-3639 075 3804		
	030				Inspection verify configuration is same as recorded in P/N block and record acceptance.					3/4/3
PCA 1013					Record					
2-3970	PCR				Reproduce and route.					

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DRAWING OR DOCUMENT NO.	ADCH-DCH-ADRN	SHEET NO.	CHANGE NO.	SUPPLEMENT PAGE	PART NO.	EFFECTIVITY	INSPECTION	DATE
NO DRAWINGS REQUIRED								

PAGE	JOB NUMBER		PART NUMBER	NOMENCLATURE	LEAD INSP.	INSP. REC.	C.O.F.
1	51279	E4-20	25-28997	TEST SET-E-I P/S SET L/F	3/4/3	STAMP DATE	

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