

M. Flom Associates, Inc. - Global Compliance Center

M. Flom Associates, Inc. - Global Compliance Center 3356 North San Marcos Place, Suite 107, Chandler, Arizona 85225-7176 www.mflom.com general@mflom.com (480) 926-3100, FAX: 926-3598

Date:

October 1, 1999

Federal Communications Commission EQUIPMENT APPROVAL SERVICES P.O. Box 358315 Pittsburgh, PA 15251-5315

Attention:

Authorization & Evaluation Division

Applicant:

Telex Communications, Inc.

Equipment:

TR-300A

FCC ID:

B5DM513

FCC Rules:

74

Gentlemen:

On behalf of the Applicant, enclosed please find Application Form 731, Engineering Test Report and all pertinent documentation, the whole for approval of the referenced equipment as shown.

Filing fees are attached.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

Morton Flom, P. Eng.

enclosure(s) ELECTRONICALLY FILED BY APPLICANT

cc: Applicant MF/cvr

MFA p9990012, d99a0006

LIST OF EXHIBITS (FCC CERTIFICATION (TRANSMITTERS) - REVISED 9/28/98)

APPLICANT:

Telex Communications, Inc.

FCC ID:

B5DM513

BY APPLICANT:

- 1. LETTER OF AUTHORIZATION
- 2. IDENTIFICATION DRAWINGS, 2.1033(c)(11)

X LABEL

- X LOCATION OF LABEL
- X COMPLIANCE STATEMENT
- X LOCATION OF COMPLIANCE STATEMENT
- 3. PHOTOGRAPHS, 2.1033(c)(12)
- 4. DOCUMENTATION: 2.1033(c)

 - (3) USER MANUAL (9) TUNE UP INFO (10) SCHEMATIC DIAGRAM
 - (10) CIRCUIT DESCRIPTION
- 5. PART 90.203(e) & (g) ATTESTATION

BY M.F.A. INC.

- A. TESTIMONIAL & STATEMENT OF CERTIFICATION
- B. STATEMENT OF QUALIFICATIONS

FEDERAL COMMUNICATIONS COMMISSION

Approved by OMB FCC FORM 731

For		
FCC		
use		
only		

APPLICATION FOR EQUIPMENT AUTHORIZATION

4	TION I - ALL ITEMS IN	al business			
1.	Applicant's complete, leg			nar	eck here if this is a change in ne and/or address not previous
2.	TELEX COM Applicant's mailing addre	orted (See 47 CFR §2.934) Bureau Use Only			
-	8601 E. (Equipment Code:			
	Applicant's mailing addre	Engineer:			
	P.O. Box	5579			Linguises.
	City Lincoln,				Examiner:
	State or Country (if foreig		ZIP/Postal Code	(a) Grantee Code (14 characte	nt Product Code ers maximum, show zeros as
	Nebra	MC IRROW	68505 5579	B 5 D M513	
4.			erson at the applica er, Project	nt's address to receive grant, or for c Engineer	ontact: (See instructions)
5.(a	Telephone No. (Area/Count 402 467 5321	try/City code,	No. and Ext.)	(b) FAX No. (Area/Country/City coo 402 467 3279	de and No.)
(c	Internet e-mail address: C	Charlie	conner@telex	.com.	(P) 1 3 3 3
SE	TION II - See 47 CFR §1.11	103 for Fee Typ	e Codes and Fees. Fe	e Type Codes are listed in Paragraph C of t	he attached instructions.
fron	ONE service, enter additi (A)			umn (A) by the number entered in Col n III below. (C)	umn (B). If requesting more
thar	ONE service, enter additi	onal Fee Typ	e Code(s) in Section	(C)	FOR FCC USE ONLY
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SECT	ION IV - Enter FC	C ID from Pa	ge 1. Section	I P	5DM513	I PROGET	TR-300A)		
	Instead of Applicant, Firm name, number, street, City, State/Country, ZIP/Postal Code		ized to mail orig	ginal Grant to: ASSOCIA San Mar R, ARIZO	(See inst TES, INC COS Plac	c. ce, Suite	107		
(b)	Name, Title and Mail	Stop, if any, o	f person at abo	ve address to	receive Grant	: (If 1.(a) is co	ompleted, this Iten	n must be co	mpleted)
			MORTON I	FLOM, P.	Eng., 1	President			
2.(a)	Technical contact: Firm name, contact person, number, street, City, State/Country, ZIP/Postal Code		M. FLOM MORTON I San Mai ANDLER, A 85225 19	FLOM, Pr rcos Pla ARIZONA,	esident ce, #10	7 (c) FAX N	one No. (Area/Cou 30 926 3100 lo. (Area/Country/ 30 926 3598	City code an	
(d)	Internet e-mail addre	es:	www.mflo	om.com	e-m2	il: gene	ral@mflom.	com	
(e)	Non-Technical conta Firm name, contact person, number, street, City, State/Country, ZIP/Postal Code		M.FLOM A MORTON I San Mar CHANDLES 85225 1	ASSOCIAT FLOM, Pr rcos Pla R, ARIZO	ES, INC. esident ce, #10	(f) Teleph 1 48((g) FAX I	0: 926 3100 No. (Area/Country) 0: 926 3598	ntry/City code,	
(h)	Internet e-mail addre	988:	www.mfl	off.com	e	-mail: ge	eneral@mfl	om.com	
3.	Does this application application pursuant	to 47 CFR §0	uest for confide 459 of the Con	intiality for any nmission's Rul	es? If "Yes"	see instructions	ned in this	Yes	☑ No
4.	Does the applicant r 47 CFR §0.457(d)(1			lefer grant of t	his application	pursuant to		Yes Yes	No No
5.	Type of equipment a requested: (check or		Cer	tification		Type Accept	ance	Notifica	ation
6.(a)	T N F Beli				(b) Equipo	nent will be ope	rated under FCC	Rule Part(s):	
7.	Application is for: (0	Check one box	only)						
☑	Original equipment (See instructions)	2. Char	ige in identificat	tion of present	ly authorized	equipment		Il permissive lification of p ized equipme	resently
			ORIGINAL F	CC ID	Grant	date	(S	ee instruction	15)
8. (a)	EQUIPMENT SPEC Frequency range in MHz	(b) Rated RF	(See instruction power output matts	(c) Frequer	ncy tolerance z, ppm		ion designator 2.201 and §2.202)		cessor model
17	74-216	.050 W	B B	±50 p	pm	44K0F	3E		
9.	Is the equipment in	this application	n:				*		,

(b) part of a system that operates with, or is marketed with, another device that requires an equipment authorization?

If either of the above questions is answered "Yes" complete items 10.(a) and (b).

Yes Yes

(See instructions)

	NON IV (continued) - En					
0.(a)	Additional type of equipme		☐ Certification		Acceptance	Notification
(b)	The related application che	cked in item 10.(a) (Check			, isosopianios	TYOUNCAUON
	has been filed at the same time as this application under the FCC ID listed below	has been granted the FCC ID listed b	under is in t	he process of being under the FCC ID below		ding with the FCC the FCC ID listed
			FCC ID			
1.(a)	Name of test firm on file wi	th the FCC, if different from	applicant or contact pe	rson:		
		SOCIATES, INC.		E: 31040/SIT)	,
(b)	Mailing address, number, street, 33 City, State/Country, CB	56 N. San Marco ANDLER, ARIZONA 225-1571	s Place #107	(c) Telephone N	0. (Area/Country	
				1 480:	926 359	В
(e)	Internet e-mail address:	www.mflom.com	e-mail:	general@mf]	lom.com	
2.	Number of exhibits submitt	ed with this application:				
SECT	NON V - Read each cer	tification carefully before	re answering and si	igning this applica	tion.	
	The applicant must certify tinclude FCC benefits, purs	JG ABUSE) CERTIFICATION that neither the applicant nor uant to Section 5301 of the	any party to the applic	ation is subject to a de	enial of Federa	I benefits, that
		of a controlled substance S	ee 47 CFR 1 2002/h) f	1988, 21 U.S.C. §862 or the definition of a "r	because of a	CONVICTION FOR
2.(a)	Does the applicant or author APPLICANT/AGENT CER	of a controlled substance. Sorized agent so certify? TIFICATION:	Yes N	or the definition of a "p	earty" for these	purposes.
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June 11, 1998

Federal Communication Commission Authorization & Evaluation Division 7435 Oakland Mills Road Columbia, Maryland 21046 8901 E. Comhusker Highway PO. Box 5579

Lincoln, Nebraska 68505 USA

Telephone 402-467-6321

Telex 48-4324 Hygain Lon a

Fax 402-467-3279

Gentlemen:

This letter will authorize the appointment of MORTON FLOM, P. Eng., and/or M. Flom Associates, Inc. to act as our Agent in all FCC matters.

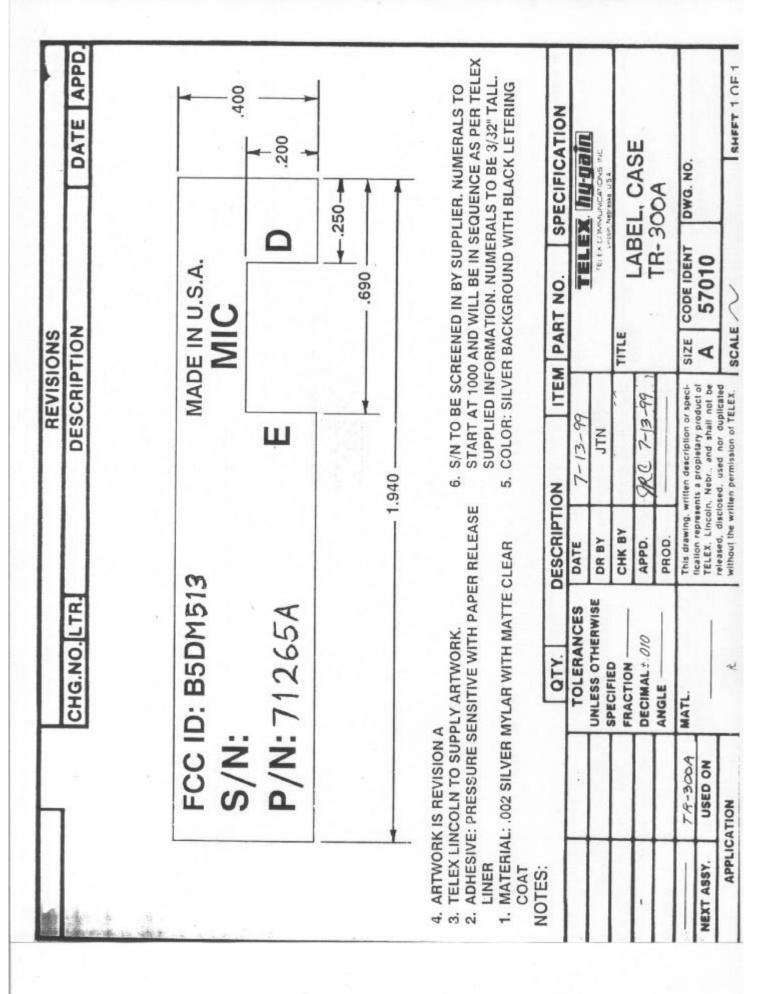
This appointment is effective until otherwise notified by us.

This is to advise that we are in full compliance with the Anti-Drug Abuse Act. The Applicant is not subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 USC 862, and no party to the application is subject to a denial of federal benefits pursuant to that section.

Sincerely, TELEX COMMUNICATIONS, INC.

Charles E. Conner Project Engineer

e-mail: Charlie.conner@telex.com





M. Flom Associates, Inc. - Global Compliance Center 3356 North San Marcos Place, Suite 107, Chandler, Arizona 85225-7176 www.mflom.com general@mflom.com (480) 926-3100, FAX: 926-3598

Sub-part 2.1033(c):

EQUIPMENT IDENTIFICATION

FCC ID: B5DM513

NAMEPLATE DRAWING

ATTACHED, EXHIBIT 1.

LOCATION

AS PER LABEL DRAWING(S)

DATE OF REPORT

October 1, 1999

SUPERVISED BY:

THE APPLICANT HAS BEEN CAUTIONED AS TO THE FOLLOWING:

15.21 INFORMATION TO USER.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) SPECIAL ACCESSORIES.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

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Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a)

TEST REPORT

b) Laboratory:

M. Flom Associates, Inc.

(FCC: 31040/SIT)

3356 N. San Marcos Place, Suite 107

(Canada: IC 2044) Chandler, AZ 85224

c) Report Number:

d99a0006

d) Client:

Telex Communications, Inc. 8601 E. Cornhusker Highway

P.O. Box 5579

Lincoln, NE 68505-5579

e) Identification:

TR-300A

FCC ID: B5DM513

Description:

Belt Pack Transceiver

f) EUT Condition:

Not required unless specified in individual

tests.

g) Report Date: EUT Received:

October 1, 1999

September 14, 1999

h, j, k):

As indicated in individual tests.

i) Sampling method: No sampling procedure used.

Uncertainty:

In accordance with MFA internal quality manual.

m) Supervised by:

Morton Flom, P. Eng.

n) Results:

The results presented in this report relate

only to the item tested.

o) Reproduction:

This report must not be reproduced, except in full, without written permission from this

laboratory.

2 of 24.

LIST OF GENERAL INFORMATION REQUIRED FOR CERTIFICATION

IN ACCORDANCE WITH FCC RULES AND REGULATIONS, VOLUME II, PART 2 AND TO

74

Sub-part 2.1033 (c)(1): NAME AND ADDRESS OF APPLICANT:

> Telex Communications, Inc. 8601 E. Cornhusker Highway P.O. Box 5579 Lincoln, NE 68505-5579

MANUFACTURER:

Applicant

3 of 24.

M. Flom Associates, Inc. is accredited by the American Association for Laboratory Association (A2LA) as shown in the scope below.





"This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report."

Should this report contain any data for tests for which we are not accredited, or which have been undertaken by a subcontractor that is not A2LA accredited, such data would not covered by this laboratory's A2LA accreditation.

4 of 24.

Subpart 2.1033 (continued)
(c)(8): VOLTAGES & CURRENTS IN ALL ELEMENTS IN FINAL R. F. STAGE,
INCLUDING FINAL TRANSISTOR OR SOLID STATE DEVICE:

COLLECTOR CURRENT, A = per manual COLLECTOR VOLTAGE, Vdc = per manual SUPPLY VOLTAGE, Vdc = 9

(c) (9): TUNE-UP PROCEDURE:

PLEASE SEE ATTACHED EXHIBITS

(c) (10): CIRCUIT DIAGRAM/CIRCUIT DESCRIPTION:
Including description of circuitry & devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation and limiting power.

PLEASE SEE ATTACHED EXHIBITS

(c) (11): LABEL INFORMATION:

PLEASE SEE ATTACHED EXHIBITS

(c) (12): PHOTOGRAPHS:

PLEASE SEE ATTACHED EXHIBITS

(c) (13): DIGITAL MODULATION DESCRIPTION:

ATTACHED EXHIBITS
x N/A

(c) (14): TEST AND MEASUREMENT DATA:

FOLLOWS

5 of 24.

Sub-part 2.1033(c)(14):

TEST AND MEASUREMENT DATA

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1079, 2.1051, 2.1053, 2.1055, 2.1057 and the following individual Parts:

-	21 - Domestic Public Fixed Radio Services
	22 - Public Mobile Services
567-0-2	22 Subpart H - Cellular Radiotelephone Service
	22.901(d) - Alternative technologies and auxiliary services
	23 - International Fixed Public Radiocommunication services
	24 - Personal Communications Services
×	74 Subpart H - Low Power Auxiliary Stations
	80 - Stations in the Maritime Services
	80 Subpart E - General Technical Standards
	80 Subpart F - Equipment Authorization for Compulsory Ships
	80 Subpart K - Private Coast Stations and Marine Utility
	Stations
	80 Subpart S - Compulsory Radiotelephone Installations for
	Small Passenger Boats
	80 Subpart T - Radiotelephone Installation Required for
	Vessels on the Great Lakes
	80 Subpart U - Radiotelephone Installations Required by the
	Bridge-to-Bridge Act
	80 Subpart V - Emergency Position Indicating Radiobeacons
	(EPIRB'S)
	80 Subpart W - Global Maritime Distress and Safety System
-	(GMDSS)
	80 Subpart X - Voluntary Radio Installations
	87 - Aviation Services
	90 - Private Land Mobile Radio Services
	94 - Private Operational-Fixed Microwave Service
	95 Subpart A - General Mobile Radio Service (GMRS)
	95 Subpart C - Radio Control (R/C) Radio Service
	95 Subpart D - Citizens Band (CB) Radio Service
	95 Subpart E - Family Radio Service
	95 Subpart F - Interactive Video and Data Service (IVDS)
	(GMDSS) 80 Subpart X - Voluntary Radio Installations 87 - Aviation Services 90 - Private Land Mobile Radio Services 94 - Private Operational-Fixed Microwave Service 95 Subpart A - General Mobile Radio Service (GMRS) 95 Subpart C - Radio Control (R/C) Radio Service 95 Subpart D - Citizens Band (CB) Radio Service 95 Subpart E - Family Radio Service 95 Subpart F - Interactive Video and Data Service (IVDS) 97 - Amateur Radio Service
	101 - Fixed Microwave Services

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STANDARD TEST CONDITIONS and ENGINEERING PRACTICES

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992, section 6.1.9, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst case measurements.

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NAME OF TEST:

Carrier Output Power (Conducted)

SPECIFICATION:

47 CFR 2.1046(a)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.1

TEST EQUIPMENT:

As per attached page

MEASUREMENT PROCEDURE

- 1. The EUT was connected to a resistive coaxial attenuator of normal load impedance, and the unmodulated output power was measured by means of an R. F. Power Meter.
- Measurement accuracy is ±3%.

MEASUREMENT RESULTS (Worst case)

FREQUENCY OF CARRIER, MHz = 207.8

POWER SETTING

R. F. POWER, ERP, WATTS

High

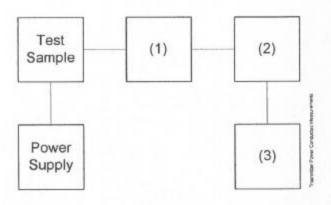
0.050

SUPERVISED BY:

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TRANSMITTER POWER CONDUCTED MEASUREMENTS

TEST 1: R. F. POWER OUTPUT TEST 2: FREQUENCY STABILITY



	Asset	Description	s/n
(1)	COAXI	AL ATTENUATOR	
750-370	i00122	Narda 766-10	7802
	i00123	Narda 766-10	7802A
	i00069	Bird 8329 (30 dB)	1006
Х	100113	Sierra 661A-3D	1059
(2)	POWER	METERS	
	i00014	HP 435A	1733A05836
×	i00039	HP 436A	2709A26776
<u>X</u> _	i00020	HP 8901A POWER MODE	2105A01087
(3)	FREOU	ENCY COUNTER	
100	i00042	HP 5383A	1628A00959
×	i00019	HP 5334B	2704A00347
×	i00020	HP 8901A FREQUENCY MODE	2105A01087

PAGE NO. 9 of 24.

NAME OF TEST: Field Strength of Spurious Radiation

SPECIFICATION: 47 CFR 2.1053(a)

GUIDE: ANSI/TIA/EIA-603-1992, Paragraph 2.2.12

TEST EQUIPMENT: As per attached page

MEASUREMENT PROCEDURE

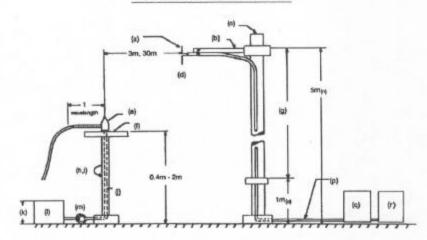
- A description of the measurement facilities was filed with the FCC and was found to be in compliance with the requirements of Section 2.948, by letter from the FCC dated March 3, 1997, FILE 31040/SIT. All pertinent changes will be reported to the Commission by up-date prior to March 2000.
- 2. At first, in order to locate all spurious frequencies and approximate amplitudes, and to determine proper equipment functioning, the test sample was set up at a distance of three meters from the test instrument. Valid spurious signals were determined by switching the power on and off.
- 3. In the field, the test sample was placed on a wooden turntable above ground at three (or thirty) meters away from the search antenna. Excess power leads were coiled near the power supply.

The cables were oriented in order to obtain the maximum response. At each emission frequency, the turntable was rotated and the search antennas were raised and lowered vertically.

- The emission was observed with both a vertically polarized and a horizontally polarized search antenna and the worst case was used.
- The field strength of each emission within 20 dB of the limit was recorded and corrected with the appropriate cable and transducer factors.
- 7. The worst case for all channels is shown.
- 8. Measurement results: ATTACHED FOR WORST CASE

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RADIATED TEST SETUP



NOTES:

- (a) Search Antenna Rotatable on boom
- (b) Non-metallic boom
- (c) Non-metallic mast
- (d) Adjustable horizontally
- (e) Equipment Under Test
- (f) Turntable
- (g) Boom adjustable in height.
- (h) External control cables routed horizontally at least one wavelength.
- (i) Rotatable

- (j) Cables routed through hollow turntable center
- (k) 30 cm or less
- (1) External power source
- (m) 10 cm diameter coil of excess cable
- (n) 25 cm (V), 1 m-7 m (V, H)
- (o) 25 cm from bottom end of 'V', 1m normally
- (p) Calibrated Cable at least 10m in length
- (q) Amplifier (optional)
- (r) Spectrum Analyzer

Asset	Description	s/n		Last Cal
TRANSDUCER				
100065	EMCO 3301B Active Monopole	2635	12 mo.	
i00033	Singer 94593-1 10kHz-32MHz		12 mo.	
x 100088	EMCO 3109-B 25MHz-300MHz	2336	12 mo.	Oct-98
x i00089	Aprel 2001 200MHz-1GHz	001500	12 mo.	Oct-98
x i00103	EMCO 3115 1GHz-18GHz	9208-3925	12 mo.	Oct-98
i00085	EMCO 3116 10GHz-40GHz	2076	12 mo.	
AMPLIFIER				
100028	HP 8449A	2749A00121	12 mo.	Mar-99
SPECTRUM A	NALYZER			
100029	HP 8563E	3213A00104	12 mo.	Aug-99
x i00033	HP 85462A	3625A00357	12 mo.	May-99
i00048	HP 8566B	2511AD1467	6 mo.	May-99

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NAME OF TEST: Field Strength of Spurious Radiation $\overline{\text{g9990107: 1999-Sep-14 Tue 13:03:00}}$ STATE: 2:High Power

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	METER, dBuV	CF, dB	ERP, dBm	MARGIN, de
207.800000	415.598000	44.93	23.79	-28.65	-15.7
207.800000	623.405000	37.95	27.51	-31.95	-18.9
207.800000	831.203000	18.85	29.99	-48.55	-35.6
207.800000	1039.003000	22.59	32.32	-42.45	-29.5
207.800000	1246.805000	16.6	34.85	-45.95	-33
207.800000	1454.610000	23.45	37.06	-36.85	-23.9
207.800000	1662.413000	15.25	39.02	-43.15	-30.1
207.800000	1870.213000	11.62	40.9	-44.85	-31.9
207.800000	2078.020000	16.78	42.74	-37.85	-24.9

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NAME OF TEST:

Emission Masks (Occupied Bandwidth)

SPECIFICATION:

47 CFR 2.1049(c)(1)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.11

TEST EQUIPMENT:

As per previous page

MEASUREMENT PROCEDURE

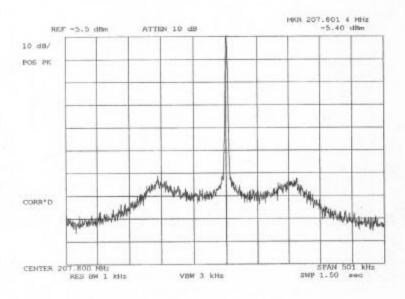
- The EUT and test equipment were set up as shown on the following page, with the Spectrum Analyzer connected.
- 2. For EUTs supporting audio modulation, the audio signal generator was adjusted to the frequency of maximum response and with output level set for ±2.5 kHz deviation (or 50% modulation). With level constant, the signal level was increased 16 dB.
- For EUTs supporting digital modulation, the digital modulation mode was operated to its maximum extent.
- The Occupied Bandwidth was measured with the Spectrum Analyzer controls set as shown on the test results.
- MEASUREMENT RESULTS: ATTACHED

13 of 24.

NAME OF TEST: Emission Masks (Occupied Bandwidth)

g9990210: 1999-Sep-16 Thu 10:20:00

STATE: 2: High Power



POWER: MODULATION: HIGH NONE

SUPERVISED BY:

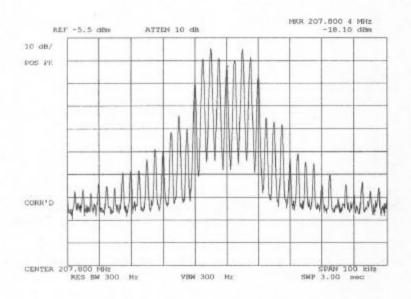
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NAME OF TEST:

Emission Masks (Occupied Bandwidth)

g9990204: 1999-Sep-16 Thu 09:44:00

STATE: 2: High Power



POWER: MODULATION: HIGH 2500 HZ @ 20 DB ABOVE REFERENCE LEVEL LOOSE COUPLED

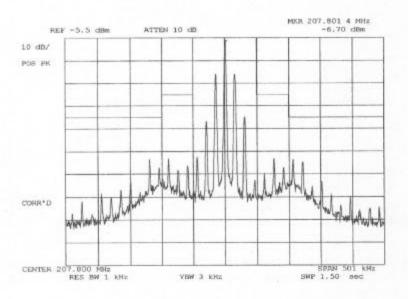
SUPERVISED BY:

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NAME OF TEST: Emission Masks (Occupied Bandwidth)

g9990209: 1999-Sep-16 Thu 10:08:00

STATE: 2: High Power



POWER: MODULATION:

HIGH 15 KHZ @ 20 DB ABOVE

REFERENCE LEVEL

MASK: Wireless Mic, 74.861

SUPERVISED BY:

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NAME OF TEST:

Audio Frequency Response

SPECIFICATION:

47 CFR 2.1047(a)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.6

TEST EQUIPMENT:

As per previous page

MEASUREMENT PROCEDURE

- The EUT and test equipment were set up as shown on the following page.
- The audio signal generator was connected to the audio input circuit/microphone of the EUT.
- 3. The audio signal input was adjusted to obtain 20% modulation at 1 kHz, and this point was taken as the 0 dB reference level.
- With input levels held constant and below limiting at all frequencies, the audio signal generator was varied from 100 Hz to 50 kHz.
- The response in dB relative to 1 kHz was then measured, using the HP 8901A Modulation Analyzer.
- 6. MEASUREMENT RESULTS:

ATTACHED

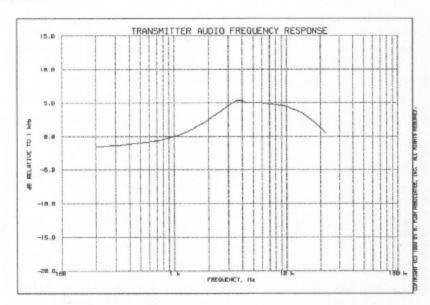
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NAME OF TEST:

Audio Frequency Response

g9990099: 1999-Sep-15 Wed 15:37:00

STATE: 0:General



Frequency of Maximum Audio Response, Hz = 10,000

Additional points:

THE PROPERTY IN THE PARTY OF TH	
FREQUENCY, Hz	LEVEL, dB
300	-1.59
20000	1.44
30000	-1.74
50000	-3.61

SUPERVISED BY:

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NAME OF TEST:

Modulation Limiting

SPECIFICATION:

47 CFR 2.1047(b)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.3

TEST EQUIPMENT:

As per previous page

MEASUREMENT PROCEDURE

- 1. The signal generator was connected to the input of the EUT as for "Frequency Response of the Modulating Circuit."
- 2. The modulation response was measured for each of three frequencies (one of which was the frequency of maximum response), and the input voltage was varied and was observed on an HP 8901A Modulation Analyzer.
- 3. The input level was varied from 30% modulation (±1.5 kHz deviation) to at least 20 dB higher than the saturation point.
- Measurements were performed for both negative and positive 4. modulation and the respective results were recorded.
- MEASUREMENT RESULTS: ATTACHED 5.

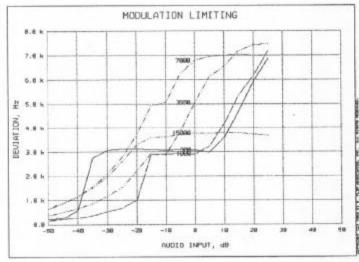
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NAME OF TEST: Modulation Limiting

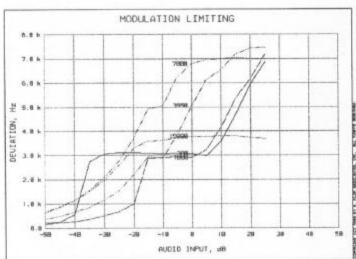
g9990100: 1999-Sep-15 Wed 15:43:00

STATE: 0:General

Positive Peaks:



Negative Peaks:



SUPERVISED BY:

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NAME OF TEST:

Frequency Stability (Temperature Variation)

SPECIFICATION:

47 CFR 2.1055(a)(1)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.2

TEST CONDITIONS:

As Indicated

TEST EQUIPMENT:

As per previous page

MEASUREMENT PROCEDURE

- The EUT and test equipment were set up as shown on the following page.
- With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
- 3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
- 4. The temperature tests were performed for the worst case.
- 5. MEASUREMENT RESULTS:

ATTACHED

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TRANSMITTER TEST SET-UP

TEST A. OPERATIONAL STABILITY

TEST B. CARRIER FREQUENCY STABILITY

TEST C. OPERATIONAL PERFORMANCE STABILITY

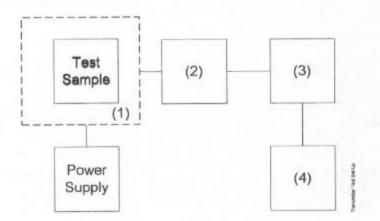
TEST D. HUMIDITY

TEST E. VIBRATION

TEST F. ENVIRONMENTAL TEMPERATURE

TEST G. FREQUENCY STABILITY: TEMPERATURE VARIATION

TEST H. FREQUENCY STABILITY: VOLTAGE VARIATION

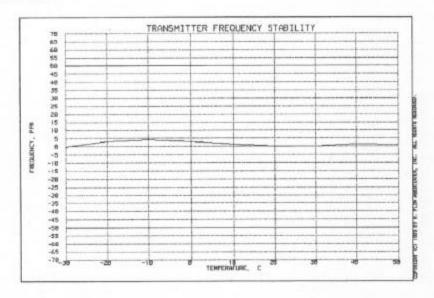


	Asset	Description	s/n
(1)	TEMPE	RATURE, HUMIDITY, VIBRATIO	N
x	100027	Tenny Temp. Chamber	9083-765-234
	i00	Weber Humidity Chamber	
	i00	L.A.B. RVH 18-100	
(2)	COAXI	AL ATTENUATOR	
	i00122	NARDA 766-10	7802
	i00123	NARDA 766-10	7802A
	100113	SIERRA 661A-3D	1059
_	100069	NARDA 766-10 SIERRA 661A-3D BIRD 8329 (30 dB)	10066
	R.F.		
		HP 435A POWER METER	
×	i00039	HP 436A POWER METER	2709A26776
X	100020	HP 8901A POWER MODE	2105A01087
(4)	FREQU	JENCY COUNTER	
200	i00042	HP 5383A	1628A00959
×	i00019	HP 5334B	2704A00347
-			2105A01087

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NAME OF TEST: Frequency Stability (Temperature Variation) g9990105: 1999-Sep-16 Thu 13:52:00

STATE: 0:General



SUPERVISED BY:

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NAME OF TEST:

Frequency Stability (Voltage Variation)

SPECIFICATION:

47 CFR 2.1055(b)(1)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.2

TEST EQUIPMENT:

As per previous page

MEASUREMENT PROCEDURE

- The EUT was placed in a temperature chamber at 25±5°C and connected as for "Frequency Stability - Temperature Variation" test.
- The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

RESULTS: Frequency Stability (Voltage Variation)

g9990110: 1999-Sep-16 Thu 09:07:51

STATE: 0:General

LIMIT, ppm = 50 LIMIT, Hz = 10390 BATTERY END POINT (Voltage) = 7.5

% of STV	Voltage	Frequency, MHz	Change, Hz	Change, ppm
85	7.65	207.799880	-120	-0.58
100	9	207.800000	0	0.00
115	10.35	207.800130	130	0.63
83	7.5	207.799880	-120	-0.58

SUPERVISED BY:

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NAME OF TEST:

Necessary Bandwidth and Emission Bandwidth

SPECIFICATION:

47 CFR 2.202(g)

MODULATION = 44K0F3E

NECESSARY BANDWIDTH CALCULATION:

MAXIMUM MODULATION (M), kHz

MAXIMUM DEVIATION (D), kHz

CONSTANT FACTOR (K)

NECESSARY BANDWIDTH (Bn), kHz

= 15

= 7

= 1

= (2 x M) + (2 x D x K) = 44

SUPERVISED BY:

TESTIMONIAL AND STATEMENT OF CERTIFICATION

THIS IS TO CERTIFY THAT:

- THAT the application was prepared either by, or under the direct supervision of, the undersigned.
- THAT the technical data supplied with the application was taken under my direction and supervision.
- THAT the data was obtained on representative units, randomly selected.
- 4. THAT, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

CERTIFYING ENGINEER: