

## TEST INSTRUMENTATION LIST

All equipment calibrated  
within last 90 days

### ADAPTER

HP X281 (Coaxial waveguide); HP S281; HP 85659 (Quasi peak)

### AMPLIFIER

Pre-amp. HP 10885A (2-1300 MHz); HP 8447D, HP 8447E, HP 8449A

### ANTENNA See end

### ATTENUATOR

Kay 432D; Power, Sierra 661A-30; Narda 76610; Narda 4779-3, -6, -10 dB

### AUDIO OSCILLATOR

HP 204D; AIEC DTC-1; Motorola S-1333B; HP 3312A; HP 8903A

### BATTERY

Sears Diehard, Stock #4341

### CAMERA

Oscilloscope, Tektronix CSA; Polaroid Impulse AF; Kodak DC-50

### CAPACITOR

Feed-Thru, 10  $\mu$ F, Solar 6512-106R; Solar 7525-1

### CLOSE FIELD PROBE

HP 11940A, 11941A, HP 11945A

### COMPUTER

HP 332; HP Vectra 486/25VL; Various PC Compatibles

### CONVERTOR, Down

HP 117 10B

### COUPLER

Narda 1080, Waveguide; HP S750E (Cross guide); Waveline 274/40; Solar 7415-3; Solar 7835-891 & -896

### CURRENT PROBE

Solar 6741-1

### DETECTOR

HP 8470B

### DIGITAL MULTIMETER

HP 3476A w/H.F. Probe; Fluke 8030A-01; HP 3478A

### DISTORTION ANALYZER

HP 334A; HP 8903A

### ELECTRONIC COUNTER

HP 5383A; HP 5334B

### FILTER

Cirqtel FHT/7-50-57/50-1A/1B (HP); Jerrold TLB-1; THB-1, Piezo 5064; Eagle TNF-I Series, Krohn-Hite 3202; Phelps-Dodge #PD-495-8; Newton #PD6000 Line Protector; 870-890 MHz (Lab Design); 900 MHz (Lab Design); Solar High-Pass s/n 882029

### FREQ. DEV. METER

HP 8901A

### FREQ. DOUBLER

HP 11721A

### FREQUENCY METER

HP 537A; HP 536A

### GENERATOR

Solar 6550-1 (power sweep); HP 8640B, GAW 1012, HP 8656A (signal); Solar 8282-1 (spike)

### HUMIDITY CHAMBER

Ember Co FW30; Bowser 0

### LIMITER, R.F.

HP 11867A; HP 11693A; HP 10509A

### LISN

Singer 91221-1; Ailtech 94641-1 (50 $\mu$ H)

### LOAD, POWER

Telewave TLW-25; Bird 8329

### MILLIAMETER

HP 428B

### MIXER

HP 10514A; Mini-Circuits TAK-1H

### OPEN FIELD SITE

As filed with FCC & IC and kept up-dated.

### TURNTABLES:

Up to 2000# capacity

### GROUND SCREEN:

Complies with docket 80-284

### ANTENNA MAST:

Complies as above

### OSCILLOSCOPE

HP 1741A; HP 181T; Tektronix T935; HP 54502A

### PHANTOM

M.F.A. Labs Left and Right human head

### PLOTTER

HP 7470; HP7475A

### POWER METER

AF GR 1840A; HP 435A with 8481A & 8482H Power Sensors; HP 436A; HP 8901A

### POWER SUPPLY

HP 6266A; Heathkit 1P 2711; 1P 5220; Honda EM400 (portable gas gen.); HP 6012

### PRINTER

Brother HL-8; Brother HL-10V; HP DeskJet 640C

### R. F. PRESELECTOR

HP 85685A

### RADIATION METER

Narda 8717 w/8010 Amp, 8021B and 8760 probes

### RESISTOR, PRECISION

Solar 7144-1.0, 7144-10.0; Solar 8525-1

### SCALE

Weigh-Tronix 3632T-50

### SCANNER

HP 9190A Scanjet

### SCREEN ROOM

Lindgren 22-2/2-0

### SIGNAL LEVEL METER

Jerrold 704B

### SIGNAL SAMPLER

R. F. Bird 4273-030, 4275-030

### SINAD/VOLTMETER

Helper Sinadder

### SPECTRUM ANALYZER

HP 8558B, 8557; HP 8563E; HP 853A; HP 8566B/8568B

### TEMPERATURE CHAMBER

Tenney, Jr

### TEMPERATURE PROBE

Fluke 80T-150C

### TERMINATION

Narda 320B Waveguide. Waveline #281

### TEST SET

Semi-Automatic: HP 8953A; HP 8954A Interface; Computer / Controller; P.S. Programmer; HP 59501A; RF Communications: HP 8920A

### TRANSFORMERS

Audio Isolation: Solar 6220-1A; Impedance: HP 11694A; Isolation: Solar 7032-1; Matching: Solar 7033-1

### TRANSMISSION & NOISE

#### MEASURING SET

HP 3555B

### VIBRATION CHAMBER

Unholtz-Dickie T 500; Unholtz-Dickie T 4000

### VOLTMETER

HP 410C; HP 3478A

### WATTMETER

Bird 43, Sierra 174A-2

### ANTENNAS

#### 30 - 50 Hz

Emco 7603 M-Field; Emco 7604 M-Field

#### 20 - 200 MHz

Apriel Biconical Model AAB20200

#### 20 - 300 MHz

Emco Biconical H-Field

#### 25 - 1000 MHz

Singer DM-105A; EMCO 3121C

#### 200 - 1000 MHz

Apriel Log Periodic, Model AALP 2001

#### 10 kHz - 30 MHz

Emco 3107B, E-Field; Emco 3101B/1, Rod E-Field

#### 10 kHz - 32 MHz

Singer 94593-1 (Loop)

#### 150 kHz - 32 MHz

Singer 92197-1 (41")

#### 150 kHz - 32 MHz

Singer 93049-1 (9')

#### 1 - 10 GHz

Singer 90794-A Discone

#### 1 - 18 GHz

Horn: Apriel Model AAH-118

#### 18 - 40 GHz

Emco 3116, Horn

#### 40 - 60 GHz

Horn: HP 11970U, HP 11971U,

HP 11975A (Lo Drive

Amplifier)

#### 50 - 75 GHz

Mixer, HP 11970V, HP 11971V

#### 75 - 110 GHz

Mixer, HP 11970W