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Sub-part 2.1033(b): 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 2.1031, 2.1033, 2.1035, 2.1041, 2.1043, 2.1045, and the following individual Parts:

____	15.209	Radiated emission limits; general requirements
____	15.211	Tunnel radio systems
____	15.213	Cable locating equipment
____	15.214	Cordless telephones
____	15.217	Operation in the band 160-190 kHz
____	15.219	Operation in the band 510-1705 kHz
____	15.221	Operation in the band 525-1705 kHz (leaky coax)
____	15.223	Operation in the band 1.705-10 MHz
____	15.225	Operation in the band 13.553-13.567 MHz
____	15.227	Operation in the band 26-27.28 MHz (remote control)
____	15.229	Operation in the band 40.66-40.70 MHz
____	15.231	Periodic operation in the band 40.66-40.70 MHz and above 70 MHz
____	15.233	Operation within the bands 43.71-44.49, 46.60-46.98 MHz 48.75-49.51 MHz and 49.66-50.0 MHz
____	15.235	Operation within the band 49.82-49.90 MHz
____	15.237	Operation within the bands 72.0-73.0 MHz, 74.6-74.8 MHz and 75.2-76.0 MHz (auditory assistance)
____	15.239	Operation in band 88-108 MHz
____	15.241	Operation in the band 174-216 MHz (biomedical)
____	15.243	Operation in the band 890-940 MHz (materials)
____	15.245	Operation within the bands 902-928 MHz, 2435-2465 MHz, 5785-5815 MHz, 10500-10550 MHz, and 24075-24175 MHz (filed disturbance sensors)
x	15.247	Operation within bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz (spread spectrum)
____	15.249	Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz
____	15.251	Operation within the bands 2.9-3.26 GHz, 3.267-3.332 GHz, 3.339-3.3458 GHz, and 3.358-3.6 GHz (vehicle identification systems)
____	15.321	Specific requirements for asynchronous devices operating in the 1910-1920 MHz and 2390-2400 MHz bands (Unlicensed PCS)
____	15.323	Specific requirements for isochronous devices operating in the 1920-1930 MHz sub-band (Unlicensed PCS)

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: Maximum Peak Output Power

SPECIFICATION: 47 CFR 15.247(b)

SPEC. LIMIT: ≤ 1 Watt peak (0.25 if <50 Hopping Channels)

TEST EQUIPMENT: Attached

MEASUREMENT DATA

ANTENNA GAIN, dBi = 1
PEAK OUTPUT POWER, Watts = 0.794
WORST CASE FOR ALL CHANNELS

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	METER, dBuV	CF, dB	uV/m @ m	ERP, dBm	MARGIN, dB
CONDUCTED:						
2412	2412				19	
2442	2442				18	
2462	2462				18	

Sample Calculation:
$P_{ERP} = (E_V \times R_M)^2/49.2 = (2.1 \times 3)^2/49.2 = 0.794$ Watts

SUPERVISED BY: Morton Flom, P. Eng.

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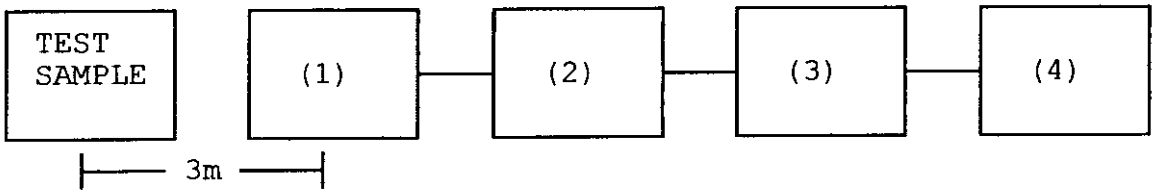
TRANSMITTER RADIATED MEASUREMENTS



	Asset	Description	s/n
		(1) TRANSDUCER	
x	i00091	Emco 3115	001469
x	i00089	Aprel Log Periodic	001500
		(2) HIGH PASS FILTER	
x	i00	Narda μPAD (In-Band Only)	
x	i00	Trilithic (Out-Of-Band Only)	
		(3) PREAMP	
x	i00028	HP 8449 (+30 dB)	2749A00121
		(4) SPECTRUM ANALYZER	
x	i00048	HP 8566B	2511A01467
	i00043	HP 8558B	2004A02076
	i00057	HP 8557A	1531A00191
x	i00029	HP 8563E	3213A00104

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NAME OF TEST: Out of Band Emissions

SPECIFICATION: 47 CFR 15.247(c), 15.209(a)

SPEC. LIMIT: See Below

TEST EQUIPMENT: As per previous page

SEARCH ANTENNAS:
10 kHz - 32 MHz: LOOP 94598-1
32 MHz - 1 GHz: SINGER DM105, $T_1T_2T_3$
1 GHz - 18 GHz: EMCO 3115

LIMIT

In any 100 kHz bandwidth outside these frequency bands, radio frequency power that is produced by the modulation products of the spreading sequence, information sequence, and the carrier frequency shall be either

at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power

or

shall not exceed the general levels specified in 15.209(a),

whichever results in the lesser attenuation.
All other emissions outside these bands shall not exceed the general radiated emission limits specified in 15.209(a).

MEASUREMENTS PROCEDURE:
At first, bench tests were performed to locate the emissions ar the antenna terminals.

In the field, tests were conducted over the range shown. The test sample was set up on a wooden turntable above ground, and at a distance of three meters from the antenna connected to the spectrum analyzer.

In order to obtain the maximum response at each frequency, the turntable was rotated, and the search antenna was raised and lowered. The EUT was also adjusted for maximum response.

The field strength was calculated from:

$E\ \mu V/m\ @\ 3\ m = LOG_{10}^{-1}(dBm + 107 + A.F. + C.L.)$

The following results are worst case conditions. Tests were conducted in Horizontal and Vertical polarization modes.

MEASUREMENT RESULTS: ATTACHED

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NAME OF TEST: Out of Band Emissions
g98b0339: 1998-Nov-25 Wed 08:51:00
STATE: 2:High Power

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	METER, dBuV	CF, dB	uV/m @ 3m	ERP, dBm	MARGIN, dB
2412.000000	4824.000000	43.67	7.61	366.44	-46.05	-2.7
2412.000000	4824.000000	32.5	12.65	180.93	-52.25	-8.9
2442.000000	4884.000000	33	7.81	109.77	-56.55	-13.2
2442.000000	4884.000000	42.83	7.81	340.41	-46.75	-3.4
2462.000000	4924.000000	32.83	7.95	109.4	-56.55	-13.2
2462.000000	4924.000000	41.83	7.95	308.32	-47.55	-4.2
2412.000000	7236.000000	32.33	11.82	161.25	-53.25	-9.9
2412.000000	7236.000000	41.5	11.82	463.45	-44.05	-0.7
2442.000000	7326.000000	41.67	12.02	483.62	-43.65	-0.3
2442.000000	7326.000000	32.5	12.02	168.27	-52.85	-9.5
2462.000000	7386.000000	43.83	12.15	629.51	-41.35	2
2462.000000	7386.000000	33	12.15	180.93	-52.25	-8.9
2412.000000	9648.000000	43.17	13.99	721.11	-40.25	3.2
2412.000000	9648.000000	33.17	13.99	228.03	-50.25	-6.8
2442.000000	9768.000000	33.5	14.11	240.16	-49.75	-6.4
2442.000000	9768.000000	44.33	14.11	835.6	-38.95	4.4
2462.000000	9848.000000	33.33	14.17	237.14	-49.85	-6.5
2462.000000	9848.000000	42.67	14.17	695.02	-40.55	2.8
2412.000000	12060.000000	32.83	14.91	243.78	-49.65	-6.3
2412.000000	12060.000000	42.17	14.91	714.5	-40.25	3.1
2442.000000	12210.000000	42	14.93	702.26	-40.45	2.9
2442.000000	12210.000000	32.83	14.93	244.34	-49.65	-6.2
2462.000000	12310.000000	42.33	14.94	730.3	-40.15	3.3
2462.000000	12310.000000	33	14.94	249.46	-49.45	-6.1
2412.000000	14472.000000	44.33	17.29	1205.04	-35.75	7.6
2412.000000	14472.000000	33.83	17.29	359.75	-46.25	-2.9
2442.000000	14652.000000	34	17.26	365.59	-46.15	-2.7
2442.000000	14652.000000	43	17.26	1030.39	-37.15	6.3
2462.000000	14772.000000	34	17.24	364.75	-46.15	-2.8
2462.000000	14772.000000	42.83	17.24	1008.09	-37.35	6.1
2412.000000	16884.000000	34.17	18.3	420.24	-44.95	-1.5
2412.000000	16884.000000	43.17	18.3	1184.4	-35.95	7.5
2442.000000	17094.000000	41.5	19.34	1101.54	-36.55	6.8
2442.000000	17094.000000	33.67	19.34	447.2	-44.35	-1
2462.000000	17234.000000	42.67	20.08	1372.46	-34.65	8.8
2462.000000	17234.000000	33.83	20.08	496.02	-43.45	-0.1

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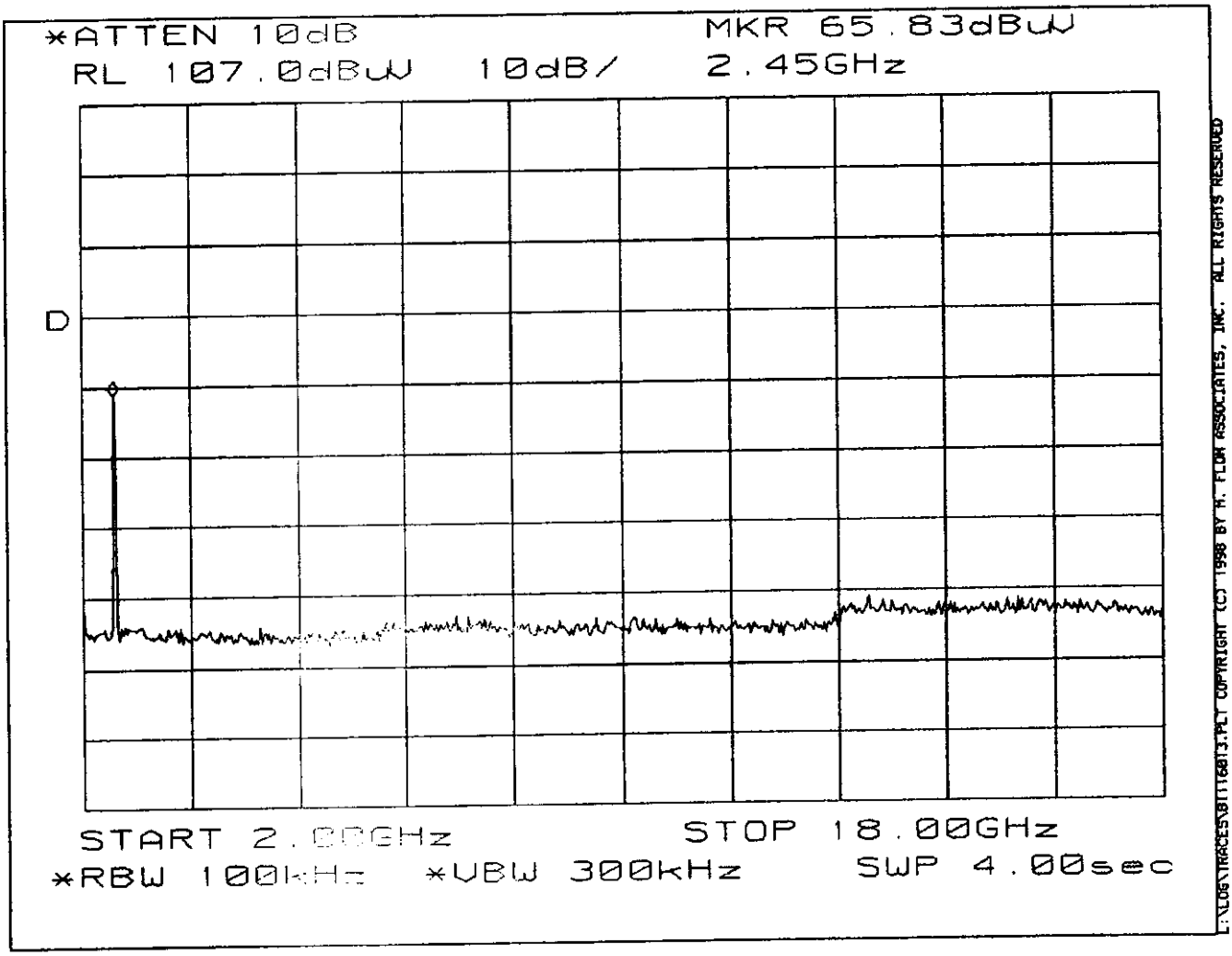
NAME OF TEST: Out of Band Emissions
g98b0294: 1998-Nov-16 Mon 16:08:00
STATE: 1:Low Power

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	METER, dBuV	CF, dB	uV/m @ 3m	ERP, dBm	MARGIN, dB
2412.000000	2365.130000	9.22	35.39	170.02	-52.75	-9.4
2412.000000	2370.000000	10.29	35.41	192.75	-51.65	-8.3
2412.000000	2375.000000	10.02	35.43	187.28	-51.95	-8.6
2412.000000	2380.000000	11.71	35.46	228.3	-50.25	-6.8
2412.000000	2385.000000	1.74	35.48	72.61	-60.15	-16.8
2412.000000	2385.000000	13.76	35.48	289.73	-48.15	-4.8
2412.000000	2389.750000	14.91	35.49	331.13	-46.95	-3.6
2412.000000	2389.750000	2.33	35.49	77.8	-59.55	-16.2
2462.000000	2483.630000	9.68	35.89	189.89	-51.85	-8.4
2462.000000	2483.630000	21.65	35.89	753.36	-39.85	3.5
2462.000000	2488.630000	22.18	35.9	801.68	-39.25	4.1
2462.000000	2488.630000	9.6	35.9	188.36	-51.85	-8.5
2462.000000	2493.130000	9.55	35.92	187.72	-51.95	-8.5
2462.000000	2493.130000	21.73	35.92	762.96	-39.75	3.7
2462.000000	2498.750000	20.63	35.94	673.75	-40.85	2.6
2462.000000	2498.750000	9.32	35.94	183.23	-52.15	-8.7
2462.000000	2503.630000	9.53	35.96	188.15	-51.85	-8.5
2462.000000	2503.630000	21.87	35.96	778.93	-39.55	3.8

EMISSIONS
AIRONET, LM4800
1998-NOV-16, 11:53, MON



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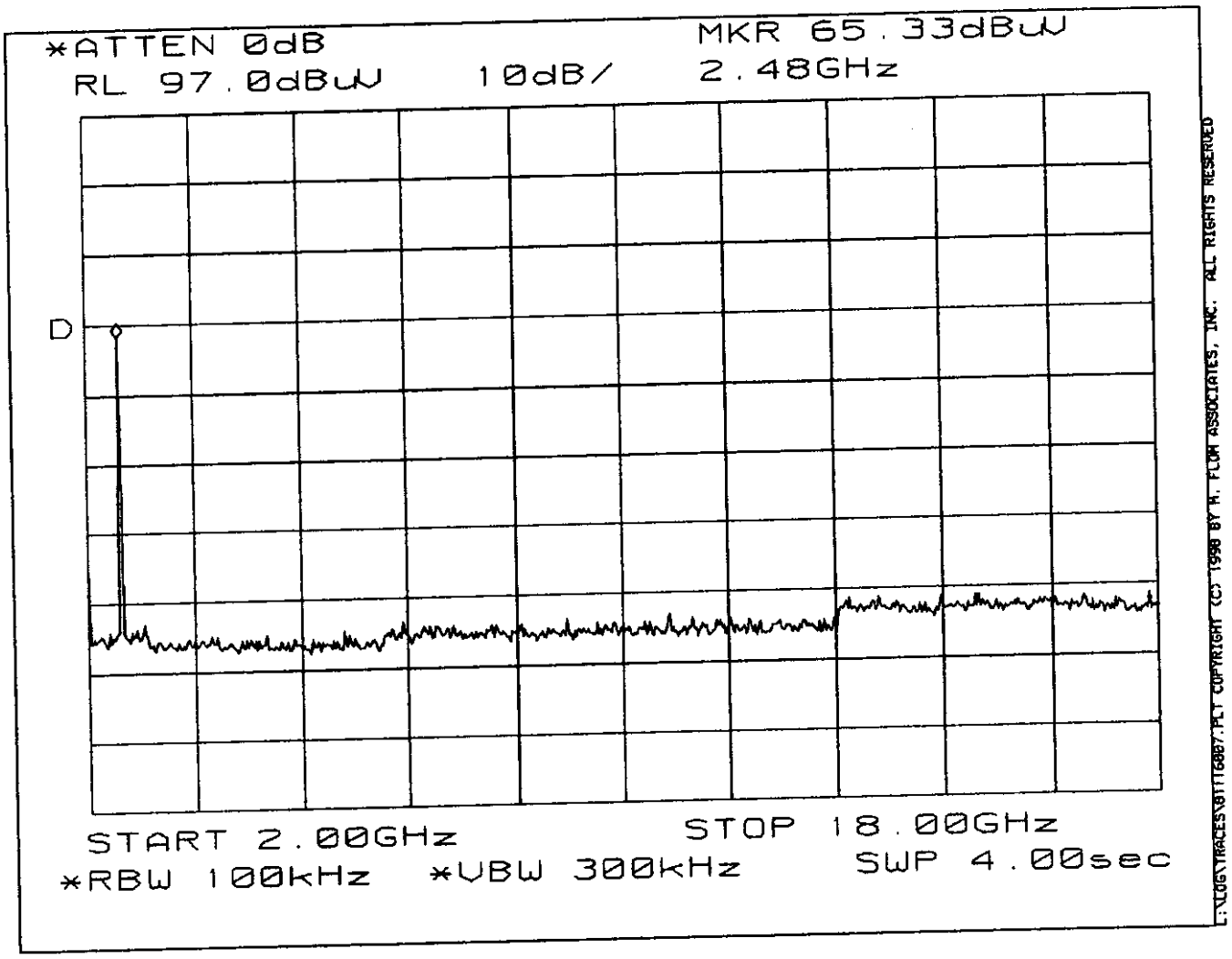
EMISSIONS
AIRONET, LM4800
1998-NOV-16, 11:12, MON



PAGE NO. 15 of 43.

NAME OF TEST: Restricted Bands of Operation

SPECIFICATION: 47 CFR 15.205

TEST EQUIPMENT: As per attached page

MEASUREMENT PROCEDORE

The EUT was set up on a three meter open field site according to the procedure on ANSI C63.4.

Sensitivity of system was measured:

Below 2 GHz:	
CISPR Bandwidths	= 8 dBµV
1 MHz RBW, 1 MHz VBW	= 12 dBµV
1 MHz RBW, 10 Hz VBW	= 3 dBµV
Above 2 GHz:	
1 MHz RBW, 1 MHz VBW	= 33 dBµV
1 MHz RBW, 10 Hz VBW	= 22 dBµV

Sensitivity of system with preamps:

Below 2 GHz:	
Preamps are not used in this range.	
Above 2 GHz:	
Peak	= 3 dBµV
Average	= -8 dBµV

Cable Loss:

915 MHz	= -0.8 dBµV
2450 MHz	= -3 dBµV

Note:
dB loss vs. frequency included in programmed software.

Reference Level Offset:
set @ 1 dB, accounts for cable and connector loss.

TEST RESULTS: No harmonic or spurious emissions were detected in the restricted bands in excess of the limits of 15.205. System measurement sensitivity was -130 dBm.

SUPERVISED BY: Morton Flom, P. Eng.

PAGE NO. 16 of 43.

NAME OF TEST: Emissions At Band Edges

SPECIFICATION: 47 CFR

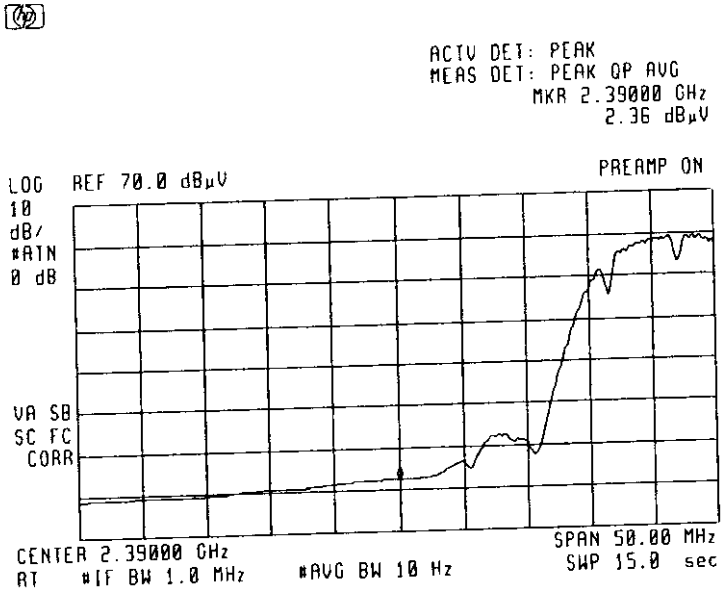
TEST EQUIPMENT: As for "Out of Band Emissions"

MEASUREMENT RESULTS

ATTACHED

SUPERVISED BY: Morton Flom, P. Eng.

NAME OF TEST: Emissions At Band Edges
g98b0315: 1998-Nov-16 Mon 16:12:00
STATE: 0:General



1 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

Morton Flom, P. Eng.

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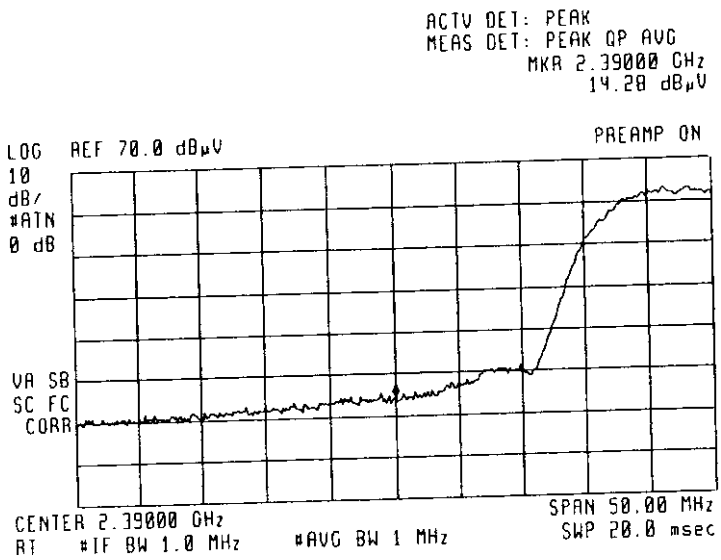
NAME OF TEST: Emissions At Band Edges
g98b0316: 1998-Nov-16 Mon 16:09:00
STATE: 0:General



1 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

Morton Flom, P. Eng.

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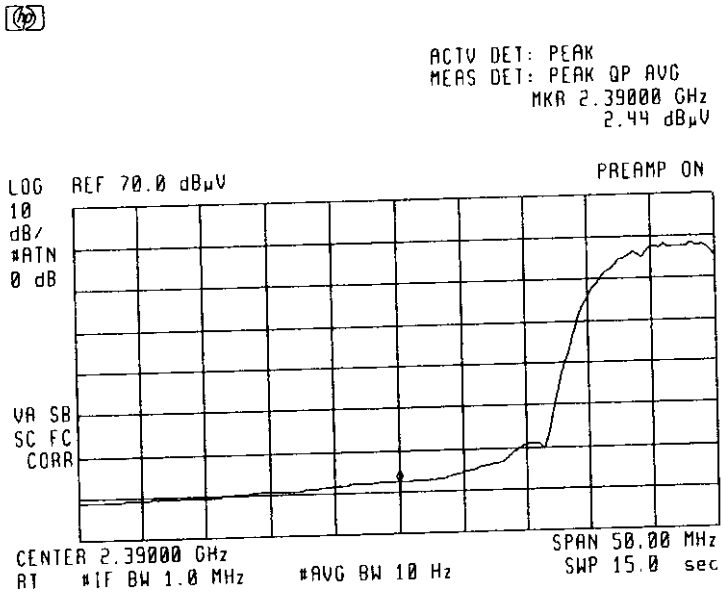
NAME OF TEST: Emissions At Band Edges
g98b0317: 1998-Nov-16 Mon 16:03:00
STATE: 0:General



2 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

Morton Flom, P. Eng.

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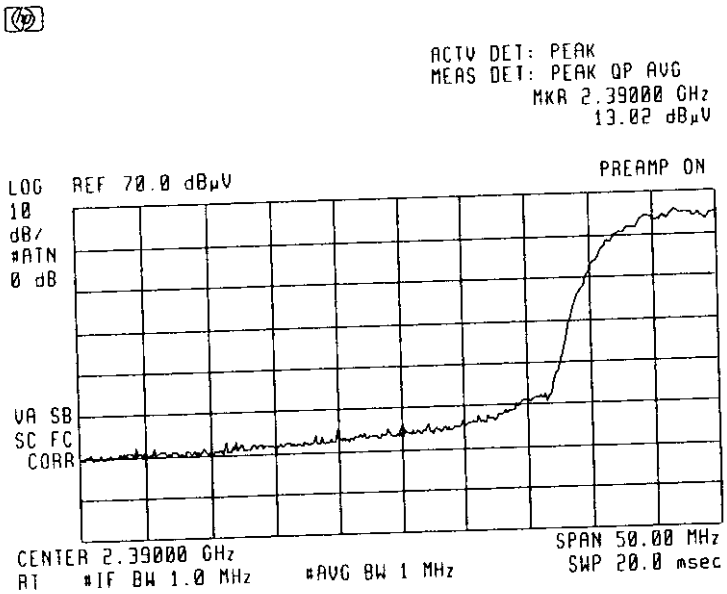
NAME OF TEST: Emissions At Band Edges
g98b0318: 1998-Nov-16 Mon 16:01:00
STATE: 0:General



2 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

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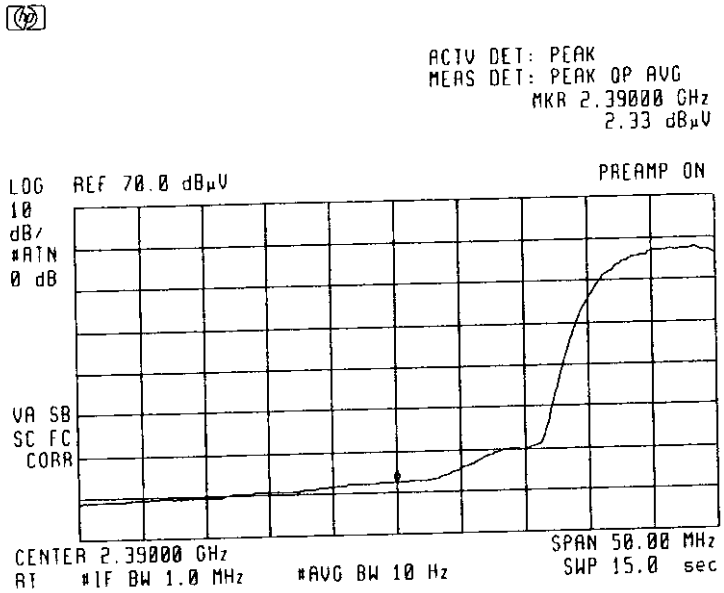
NAME OF TEST: Emissions At Band Edges
g98b0332: 1998-Nov-16 Mon 15:59:00
STATE: 0:General



5.5 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

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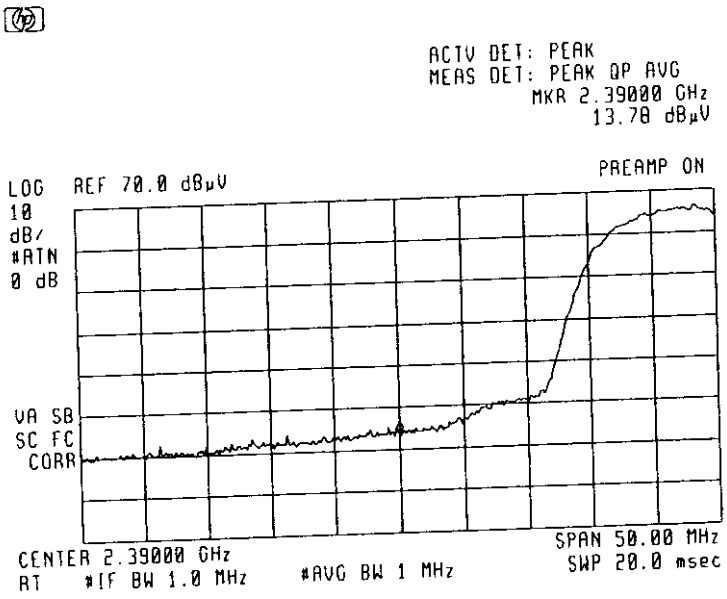
NAME OF TEST: Emissions At Band Edges
g98b0320: 1998-Nov-16 Mon 15:57:00
STATE: 0:General



5.5 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY: Morton Flom, P. Eng.

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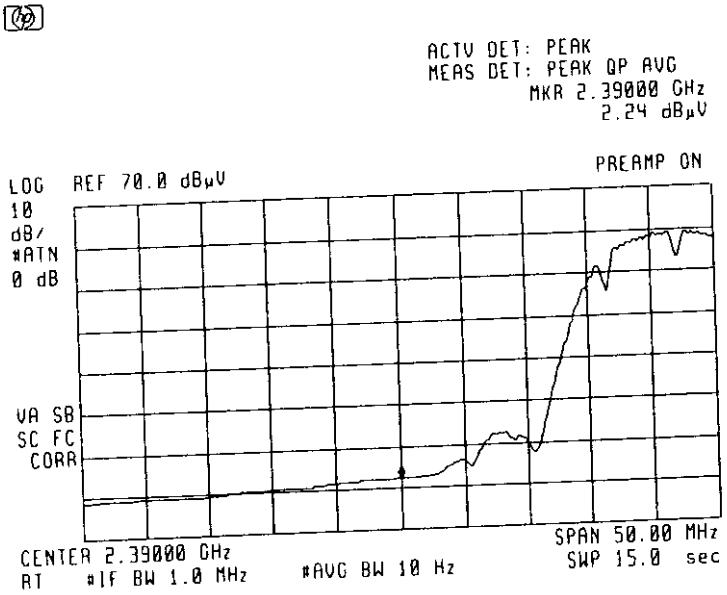
NAME OF TEST: Emissions At Band Edges
g98b0321: 1998-Nov-16 Mon 15:49:00
STATE: 0:General

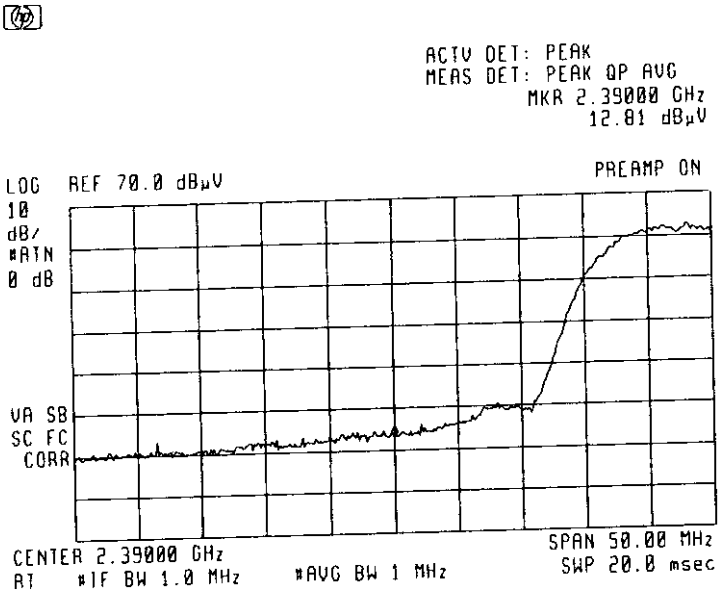


11 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

Morton Flom, P. Eng.

SUPERVISED BY:

NAME OF TEST: Emissions At Band Edges
g98b0322: 1998-Nov-16 Mon 15:46:00
STATE: 0:General



11 MB MODE
LOWER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

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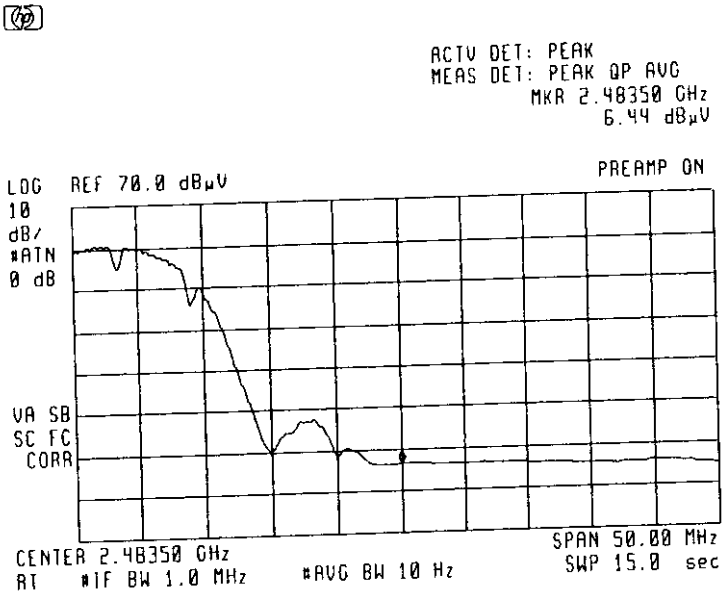
NAME OF TEST: Emissions At Band Edges
g98b0323: 1998-Nov-16 Mon 14:29:00
STATE: 0:General

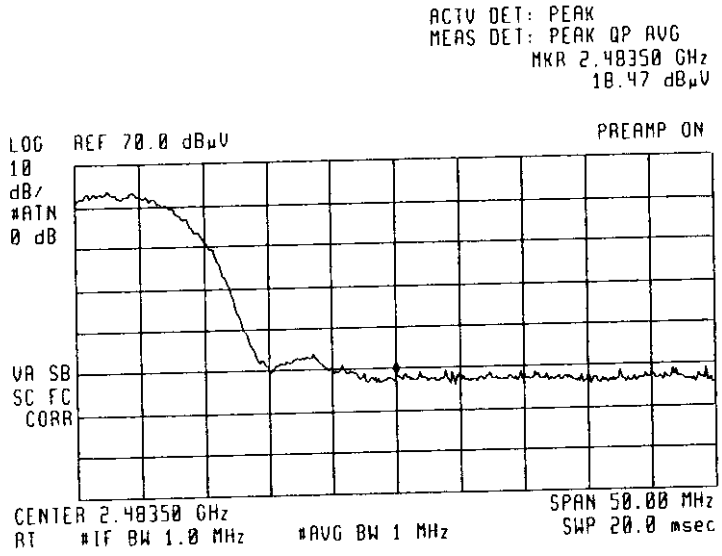


1 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

Morton Flom, P. Eng.

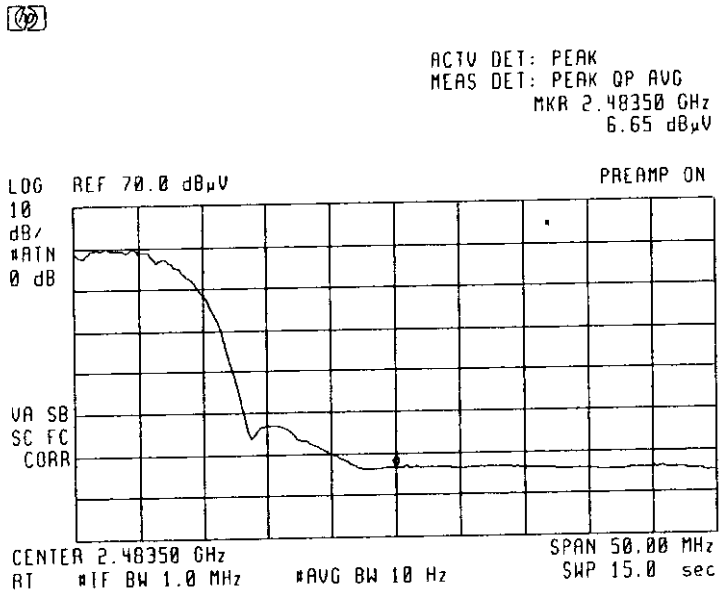
NAME OF TEST: Emissions At Band Edges
g98b0324: 1998-Nov-16 Mon 14:42:00
STATE: 0:General



1 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY: Morton Flom, P. Eng.

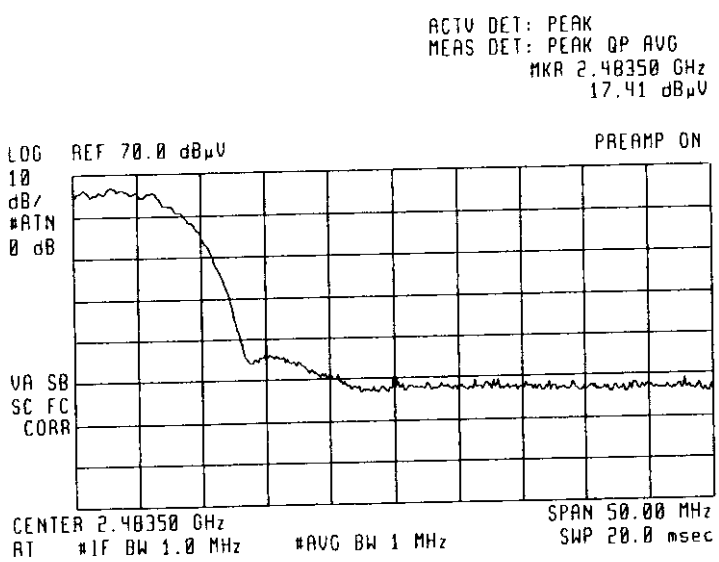
NAME OF TEST: Emissions At Band Edges
g98b0325: 1998-Nov-16 Mon 14:23:00
STATE: 0:General



2 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY: Morton Flom, P. Eng.

NAME OF TEST: Emissions At Band Edges
g98b0326: 1998-Nov-16 Mon 14:24:00
STATE: 0:General



2 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY: Morton Flom, P. Eng.

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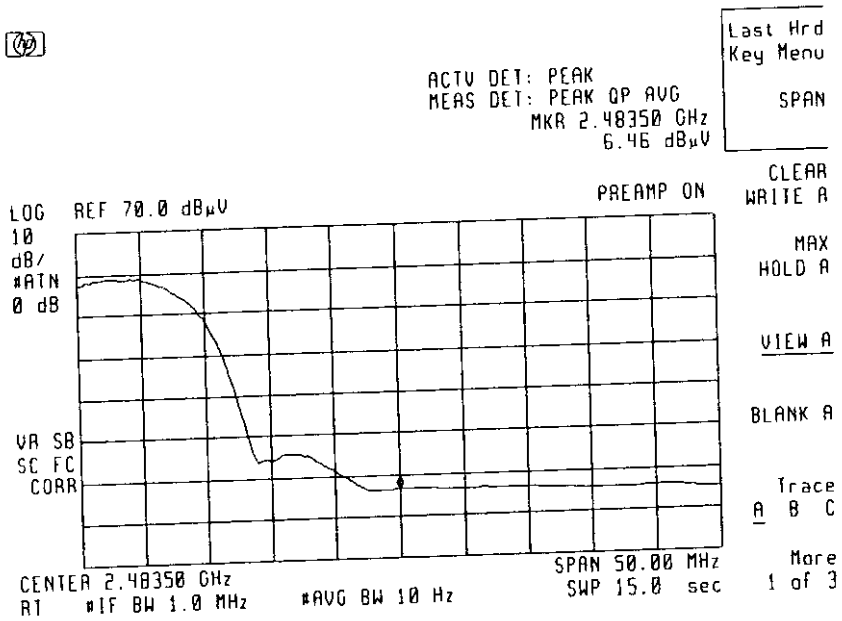
NAME OF TEST: Emissions At Band Edges
g98b0327: 1998-Nov-16 Mon 14:19:00
STATE: 0:General



5.5 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

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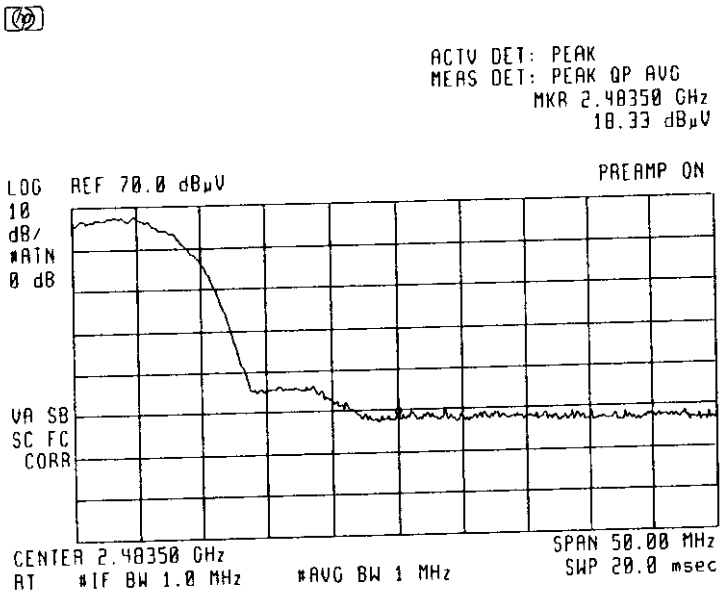
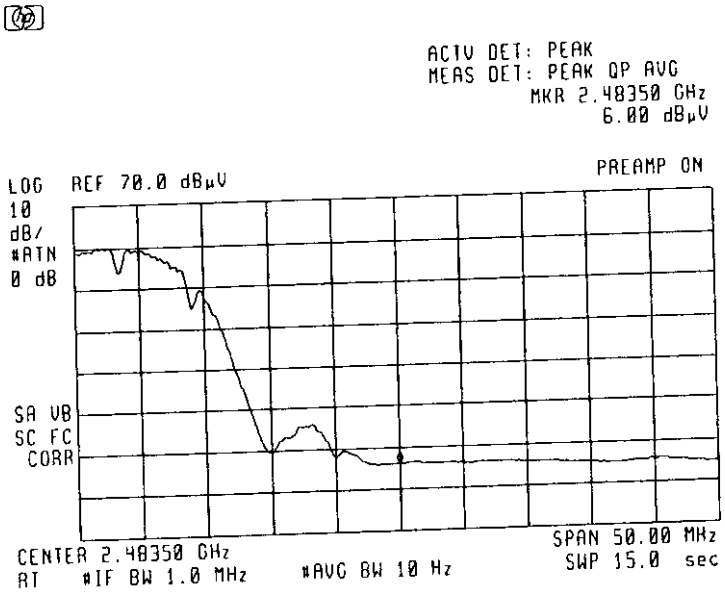
NAME OF TEST: Emissions At Band Edges
g98b0328: 1998-Nov-16 Mon 14:17:00
STATE: 0:General



5.5 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY: Morton Flom, P. Eng.

NAME OF TEST: Emissions At Band Edges
g98b0329: 1998-Nov-16 Mon 15:01:00
STATE: 0:General



11 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

Morton Flom, P. Eng.

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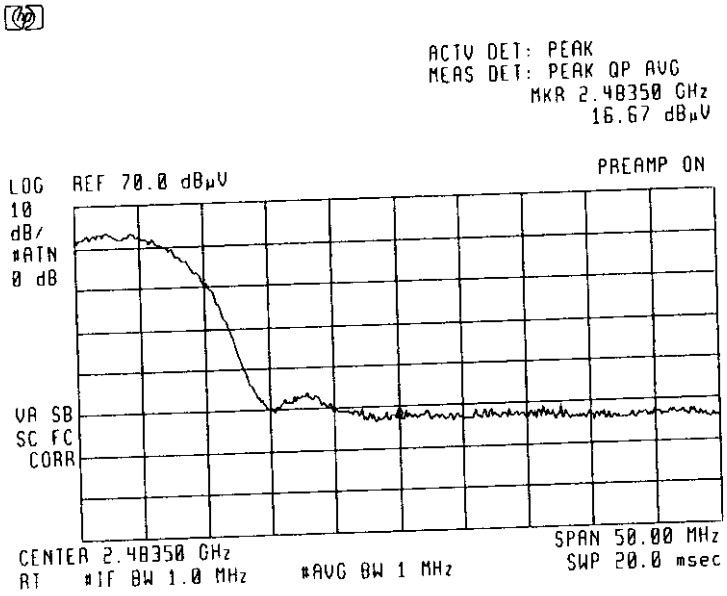
NAME OF TEST: Emissions At Band Edges
g98b0330: 1998-Nov-16 Mon 14:49:00
STATE: 0:General



11 MB MODE
UPPER BANDEDGE, 1.0 MHz RBW

SUPERVISED BY:

Morton Flom, P. Eng.

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NAME OF TEST: Spread Spectrum Technology
Direct Sequence Systems

15.247(a)(2) Minimum 5 dB Bandwidth
RESULTS: Please see results for "Allowed Occupied Bandwidth"

15.247(d) Transmitter Power Density
LIMIT: The transmitter power density peak over any 1 second interval shall not be greater that 8 dBm in any 3 kHz Bandwidth within these bands.
RESULTS: Please see attached plots.
Transmitter Power Density, dBm = -7.3

15.247(e) Processing Gain
LIMIT: The processing gain shall be ≥ 10 dB
RESULTS: See Applicant's statement

Psuedorandom Sequence Description
RESULTS: See Applicant's statement

Chip Rate
RESULTS: See Applicant's statement

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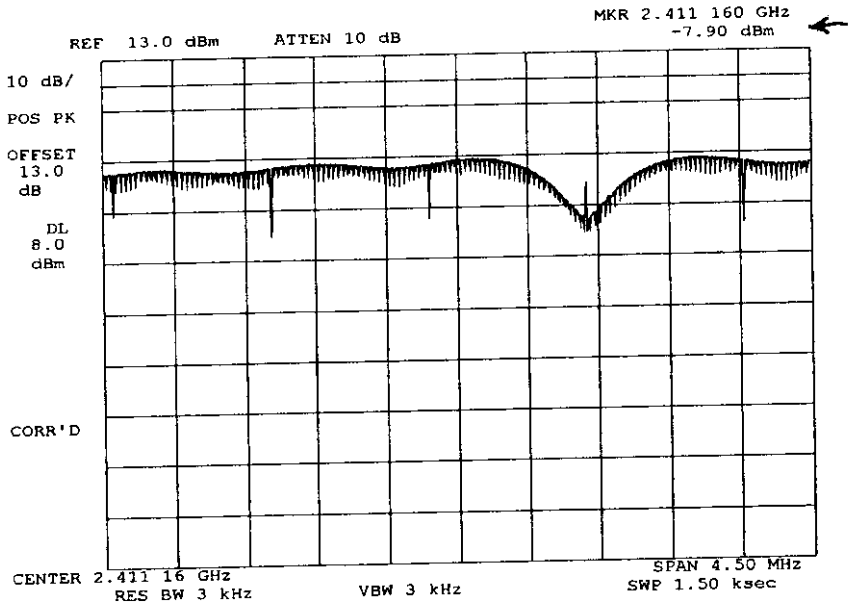
NAME OF TEST: Emission Masks (Occupied Bandwidth)
Indicating 6/20 dB Bandwidth

g98b0296: 1998-Nov-18 Wed 13:26:00
STATE: 0:General



POWER: + 13 DBM
MODULATION: 11MB/SEC
15.247 (D) SPECTRAL POWER DENSITY

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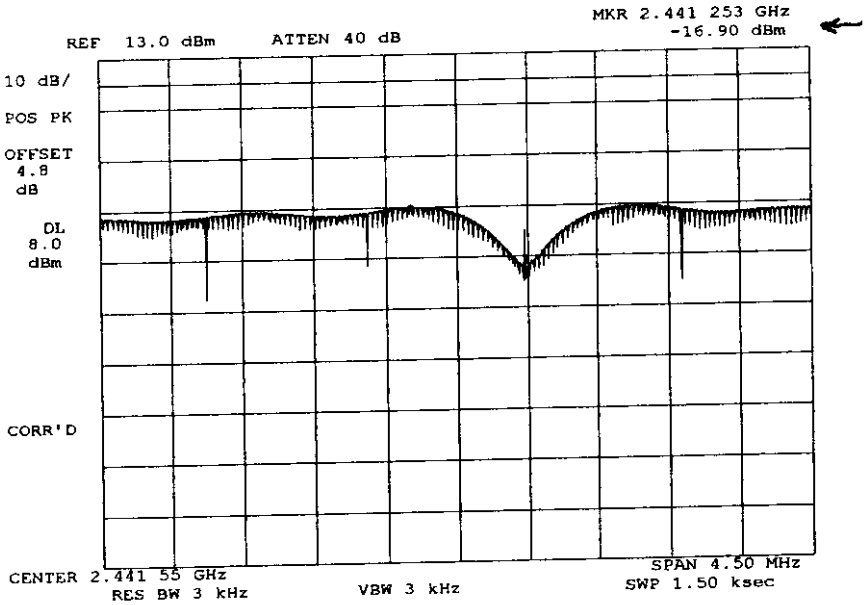
NAME OF TEST: Emission Masks (Occupied Bandwidth)
Indicating 6/20 dB Bandwidth

g98b0297: 1998-Nov-18 Wed 14:25:00
STATE: 0:General



POWER: + 13DBM
MODULATION: 11MB/SEC
15.247 (D) SPECTRAL POWER DENSITY

SUPERVISED BY: Morton Flom, P. Eng.

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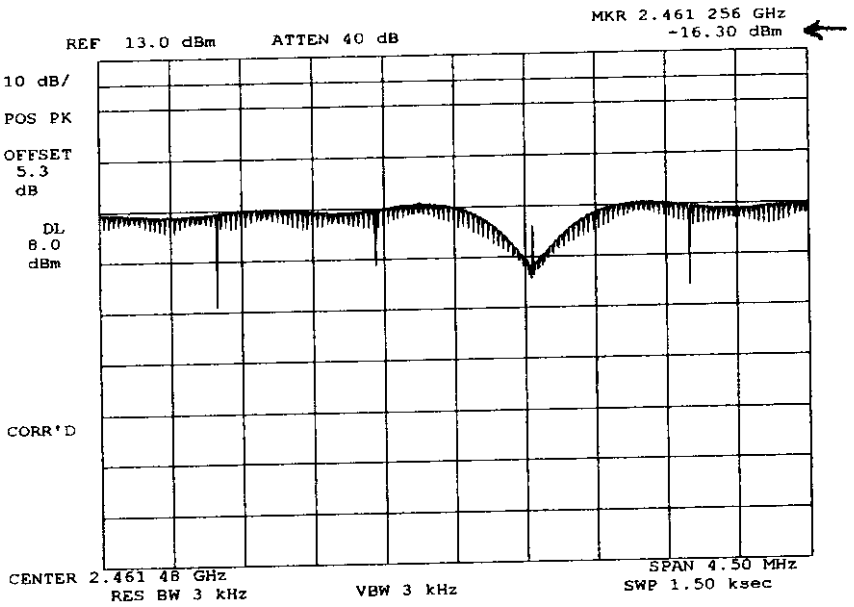
NAME OF TEST: Emission Masks (Occupied Bandwidth)
Indicating 6/20 dB Bandwidth

g98b0298: 1998-Nov-18 Wed 16:49:00
STATE: 0:General



POWER: + 13DBM
MODULATION: 11MB/SEC
15.247 (D) SPECTRAL POWER DENSITY

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NAME OF TEST: A/C Powerline Conducted Emissions

SPECIFICATION: FCC: 47 CFR 15.107

GUIDE: IEEE Standard 213

TEST CONDITIONS: S. T. & H.

TEST EQUIPMENT: As per attached page

MEASUREMENT PROCEDURE

1. A test sample was connected to the Public Utility lines through a LISN Ailtech Model 94641-1 (50 μH).

2. A reference level of 250 μV was set on the Spectrum Analyzer. The spectrum was searched over the range of 450 kHz to 30 MHz.

3. All other emissions were 20 dB or more below limit.

4. ___ The test sample used a charger.
   x The test sample does not use a charger.

5. Measurement Results: Attached.

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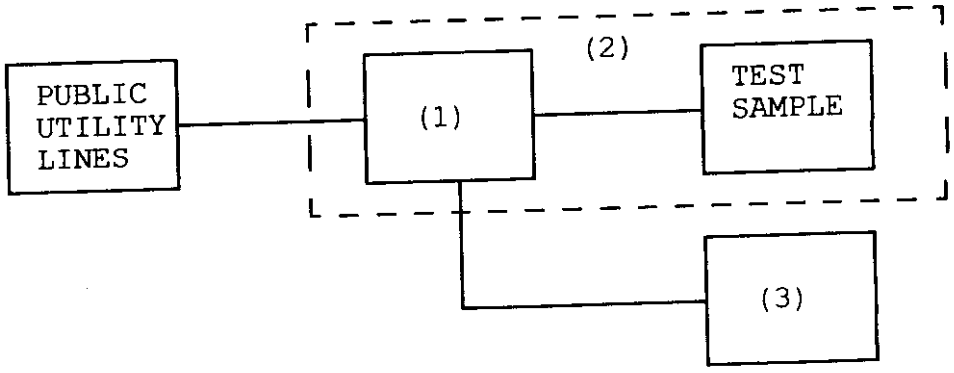
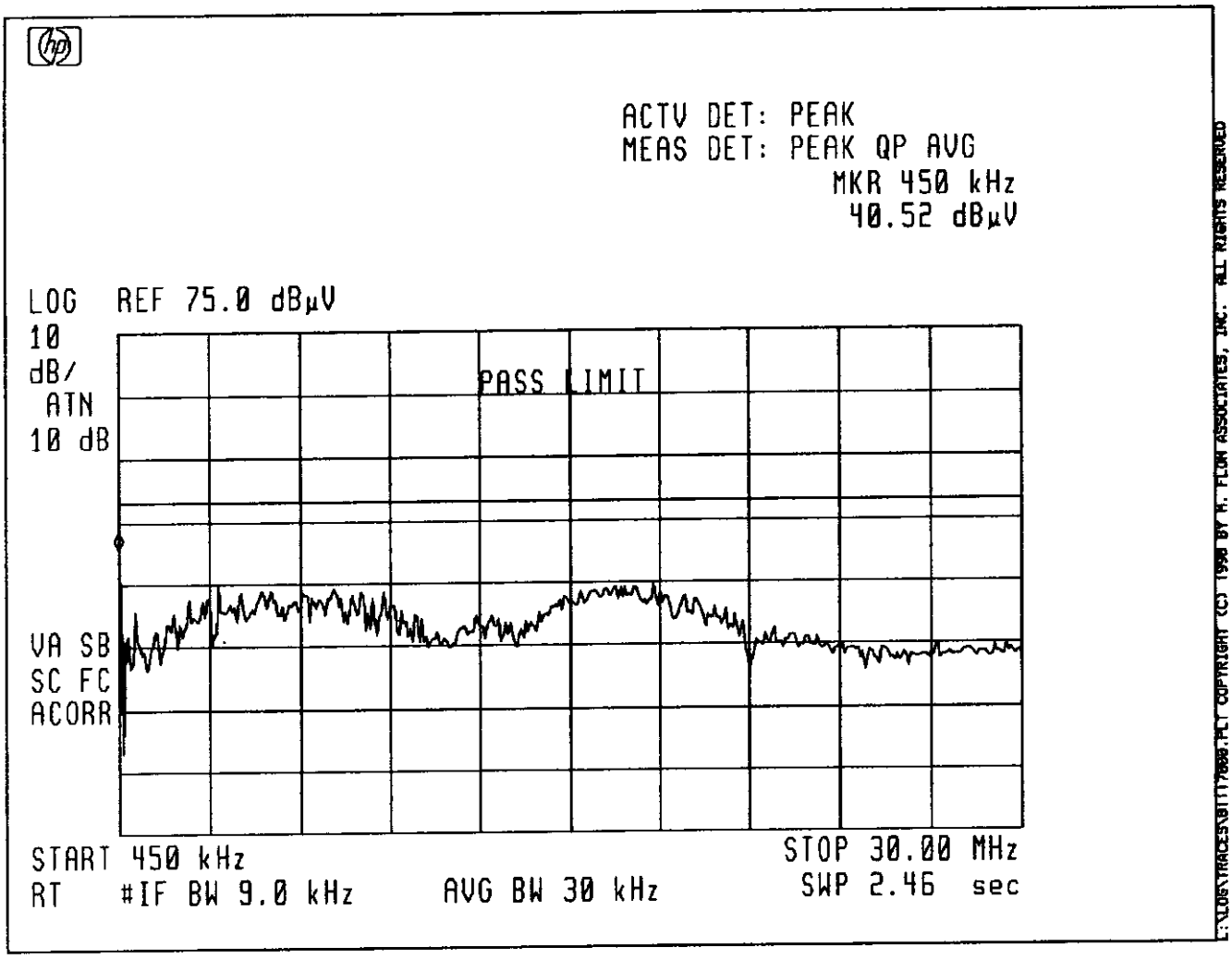
AC POWERLINE CONDUCTED MEASUREMENTS



	Asset	Description	s/n	Cycle (Per ANSI C63.4-1992, 10.1.4)	Last Cal
(1)		LINE IMPEDANCE STABILIZATION NETWORK			
___	i00077	Singer 91221-1 (5 µH)	0396	12 mo.	
x	i00155	Eaton 94641-1 (50 µH)	178	12 mo.	Sep-98
___	i00167	Ailtech 94641-1 (50 µH)	0103	12 mo.	
(2)		SCREEN ROOM			
x	i00169	Lindgren 22-2/2-0	3861		
___	i00170	Lindgren LG170	4999		
(3)		SPECTRUM ANALYZER			
___	i00029	HP 8563E	3213A00104	12 mo.	
x	i00033	HP 85462A	3625A00357	12 mo.	Dec-97
___	i00048	HP 8566B	2511AD1467	6 mo.	Mar-98

EMISSIONS
AIRONET, LM4800
1998-NOV-17, 10:18, TUE

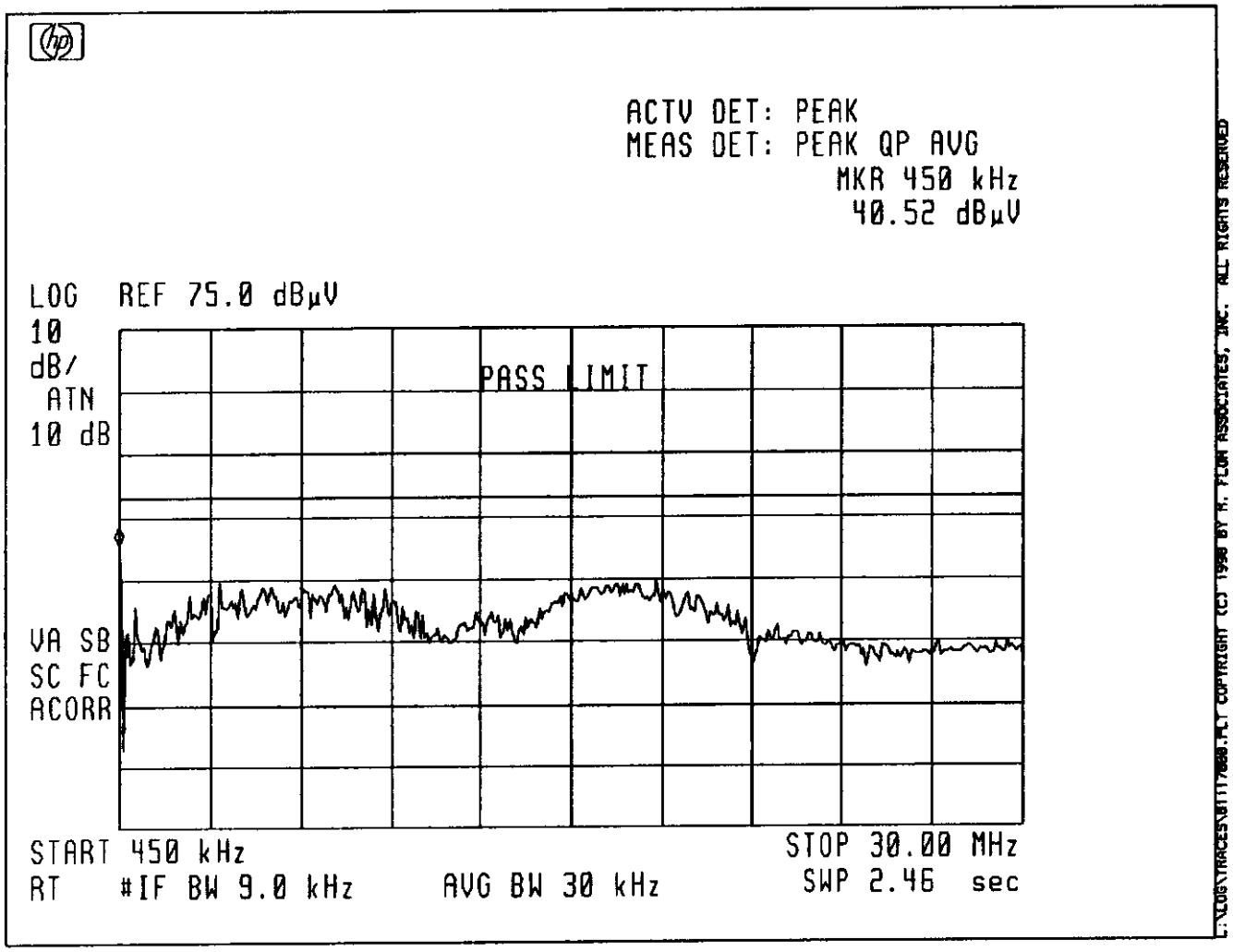
REMARK: POWERLINE CONDUCTED, NEUTRAL SIDE, UNGROUNDED



FC ID: LOZ102035

EMISSIONS
AIRONET, LM4800
1998-NOV-17, 10:18, TUE

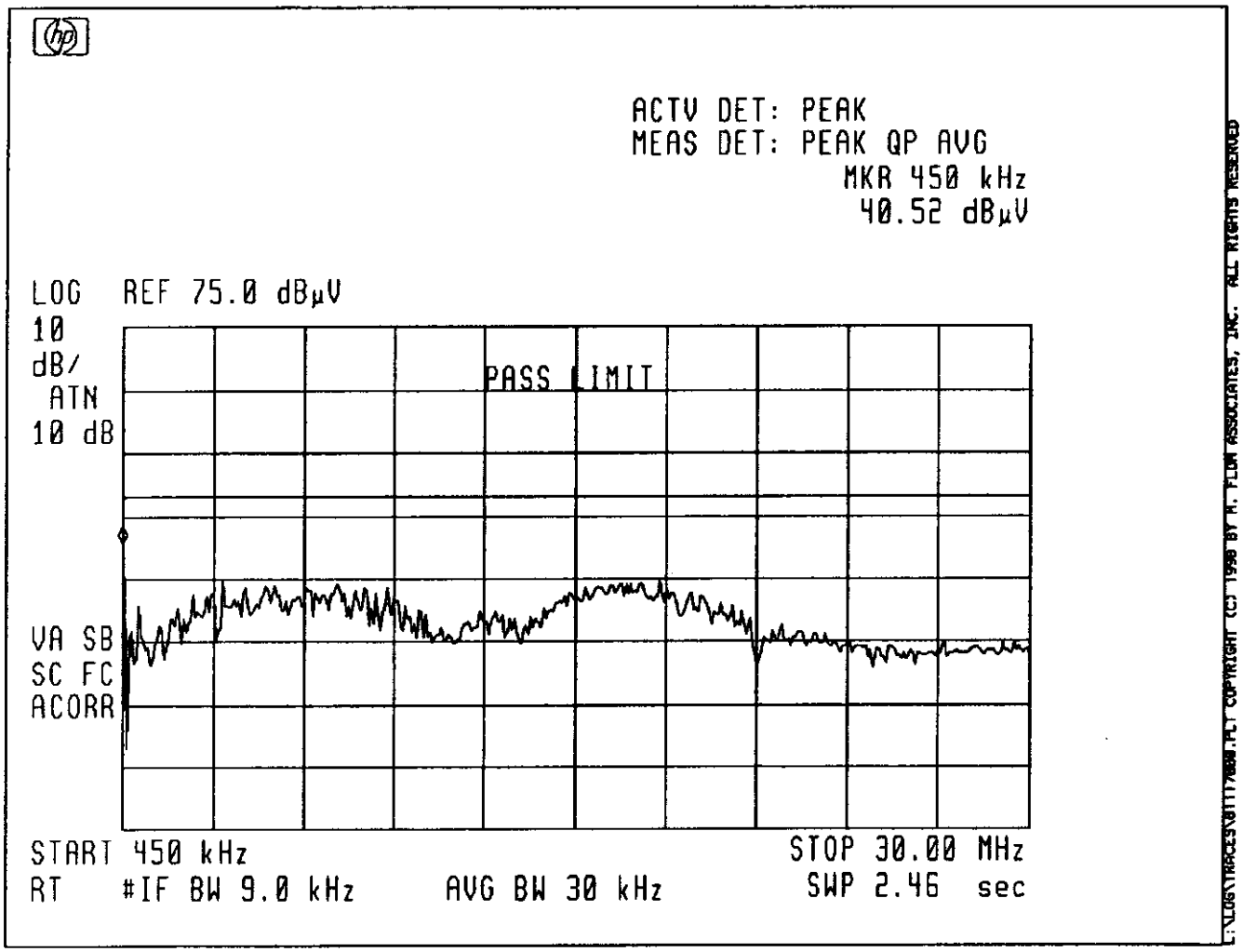
REMARK: POWERLINE CONDUCTED, LINE SIDE, UNGROUNDED



FCC ID: LOZ102035

EMISSIONS
AIRONET, LM4800
1998-NOV-17, 10:18, TUE

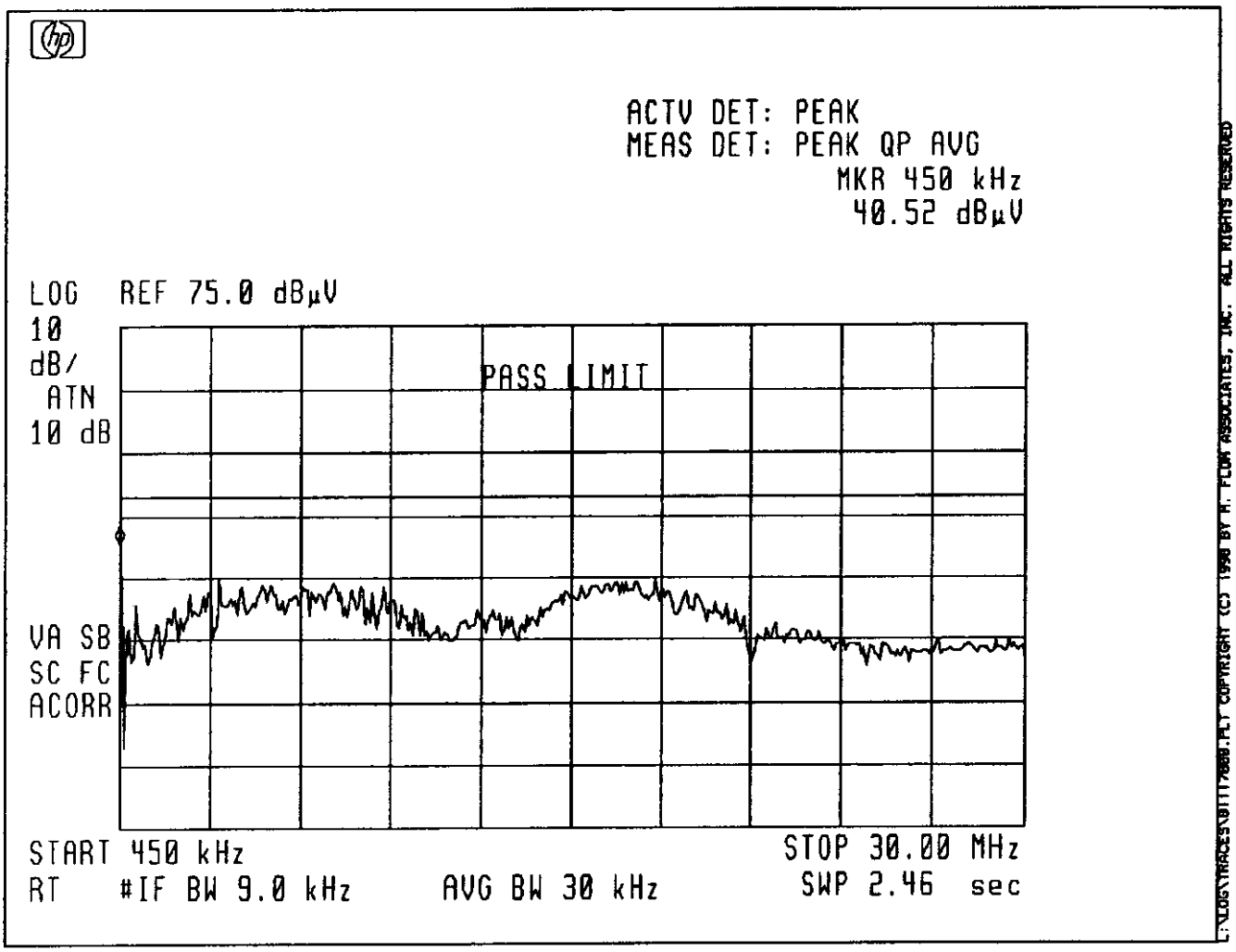
REMARK: POWERLINE CONDUCTED, NEUTRAL SIDE, GROUNDED



FCC ID: LOZ102035

EMISSIONS
AIRONET, LM4800
1998-NOV-17, 10:18, TUE

REMARK: POWERLINE CONDUCTED, LINE SIDE, GROUNDED



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NAME OF TEST: Necessary Bandwidth and Emission Bandwidth

SPECIFICATION: 47 CFR 2.202(g)

Necessary Bandwidth

Necessary Bandwidth (B_N), MHz = 9.38 (Measured)

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RADIATED MEASUREMENTS FOR PART 15 TRANSMITTERS W/ INTEGRAL ANTENNAS

Radiated Measurements

RANGE OF MEASUREMENT	SPECIFICATION	RESOLUTION B/W	VIDEO B/A
30 to 1000 MHz	CISPR	≥100 kHz	≥100 kHz
>1000 MHz	FCC, 15.37(b)	1 MHz	≥1 MHz
(if averaging)	FCC, 15.37(b)	1 MHz	10 Hz

Measuring Equipment

a. ANTENNAS:

EMCO 3109	20 - 300 MHz
APREL AALP2001	200 - 1000 MHz
APREL AAB20200	20 - 200 MHz
APREL AAH118	1 - 18 GHz

b. INSTRUMENTS:

HP8566B	Spectrum Analyzer
HP85685A	Preselector, w/ preamp below 2 GHz
HP85650A	Quasi Peak Adapter
HP8449	Preamp, above 2 GHz

All test instrumentation is calibrated every January and every July. In addition, all test instrumentation is calibrated daily, or as required by the manufacturer. A Calibration Agreement is maintained with Hewlett Packard.

Occupied Bandwidth

Occupied Bandwidth is measured as a radiated signal without attenuators and/or filter. RBW, VBW and scan settings as shown were set to produce a meaningful result in accordance with ANSI C63.4, Section 13.1.7.

Part 15.21, Information to User

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

§ 15.205 Restricted Bands of Operation

(a) Except as shown in paragraph (b) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69625	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-339.4	3600-4400	(2)
13.36-13.41			

Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. Above 38.6