

CONDUCTED EMISSIONS

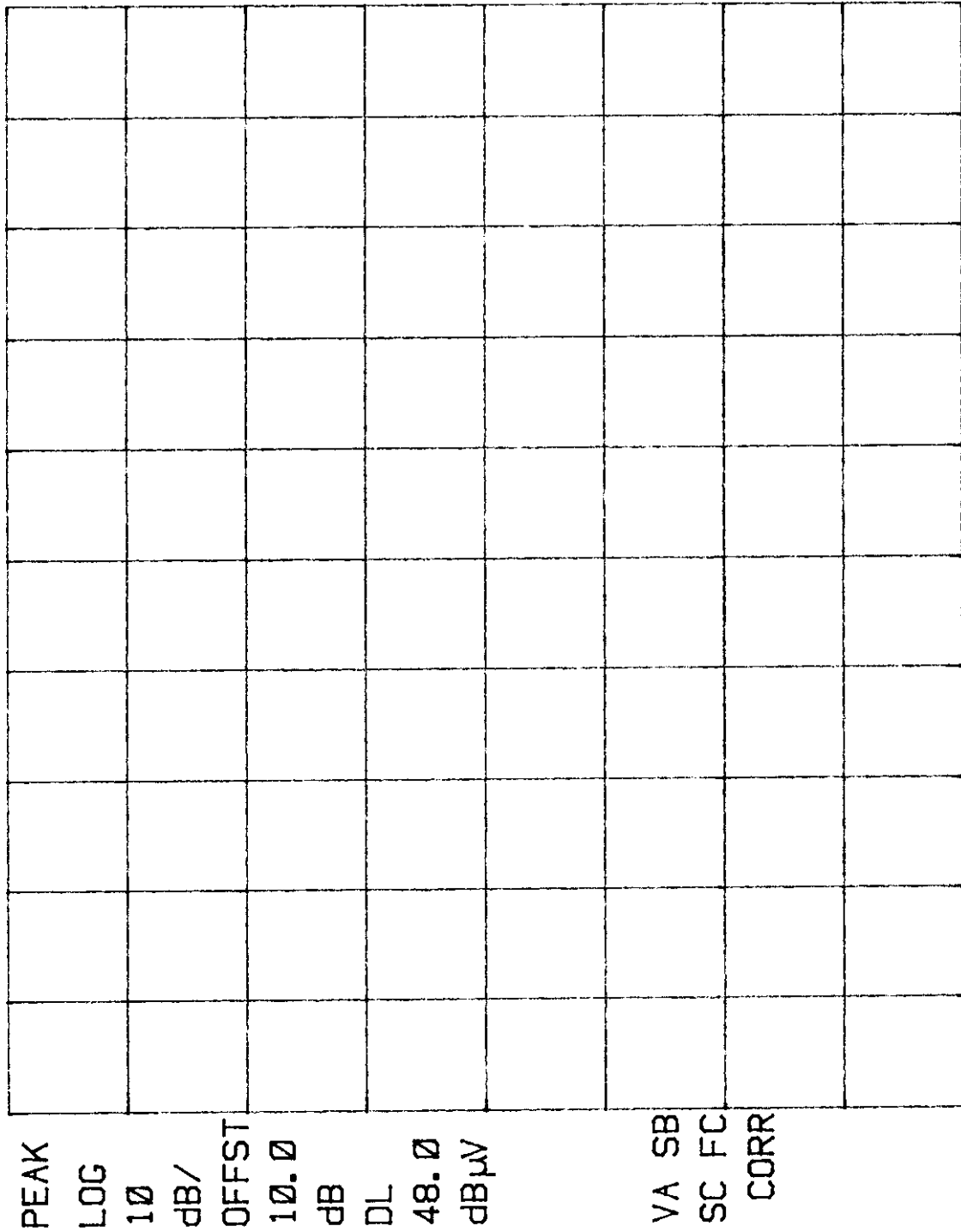
TEST DATA



**Retlif Testing Laboratories**

Test Report Number R-7515-4  
FCC ID: CCRVR3TD

10: 48: 25 MAY 04, 1998  
 R-7515 STAGE44 COND. EMIS DC LEAD-HOT  
 REF 85.0 dBµV AT 10 dB



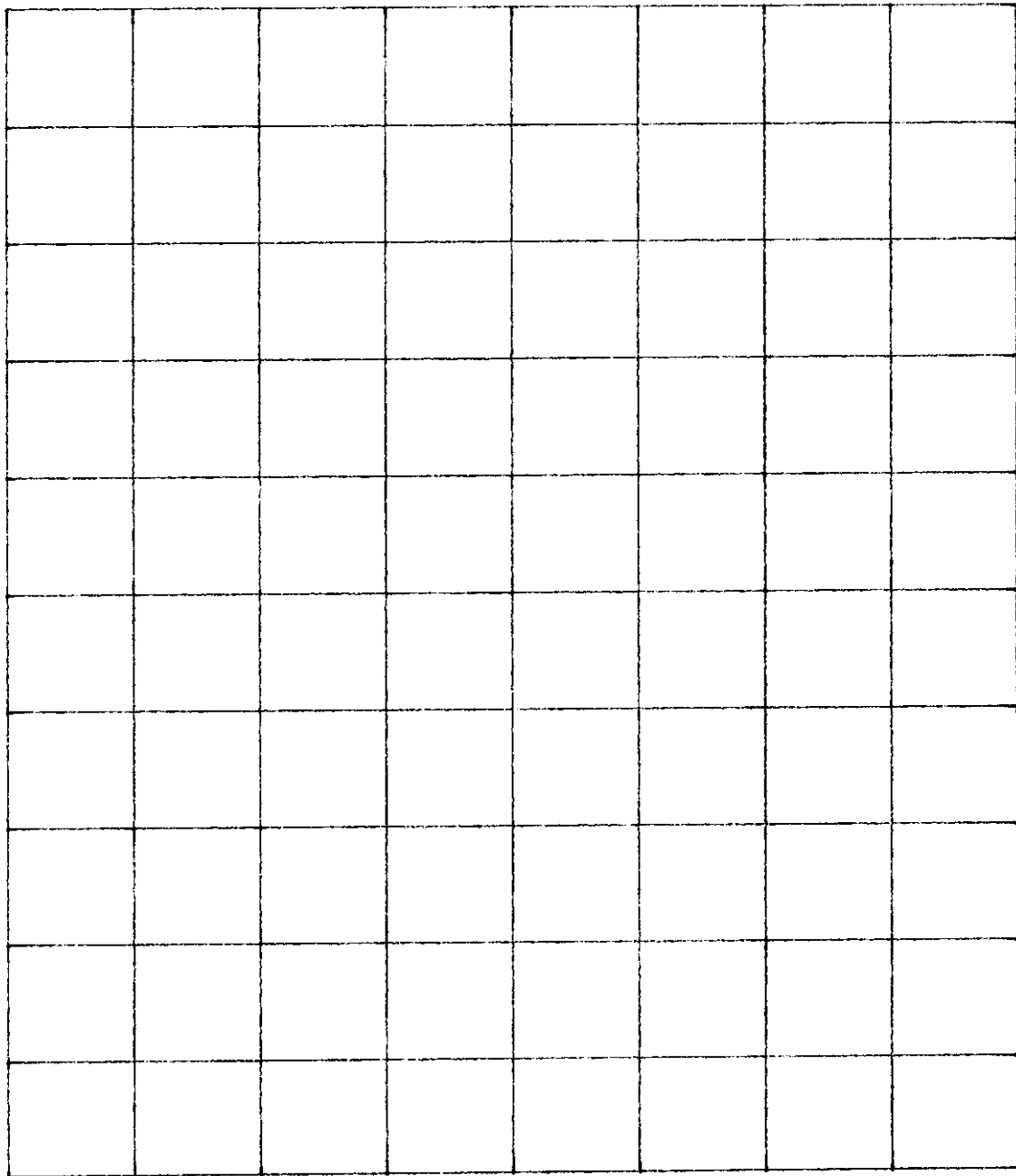
Customer: Samson Technologies Corp.  
 Test Sample: 174.6 Mhz Superheterodyne Receiver  
 Model No.: Stage 44 FCC ID:CCRSR44  
 Test Method: FCC 15.107(a) Conducted Emissions  
 Notes: Lead Tested: Hot  
 Detector: Peak  
 Date: May 4, 1998 Tech: Dennis Cortes Sheet 1 of 2



**Retlif Testing Laboratories**

Report No. R-7515-4

10:54:57 MAY 04, 1998  
 R-7515 STAGE44 COND. EMIS DC LEAD-NEUTRAL  
 REF 85.0 dB $\mu$ V AT 10 dB



PEAK  
 LOG  
 10  
 dB/  
 OFFST  
 10.0  
 dB  
 DL  
 48.0  
 dB $\mu$ V  
 VA SB  
 SC FC  
 CORR

START 450 KHZ  
 #RES BW 10 KHZ  
 STOP 30.00 MHz  
 #SWP 20.0 sec  
 VBW 30 KHZ

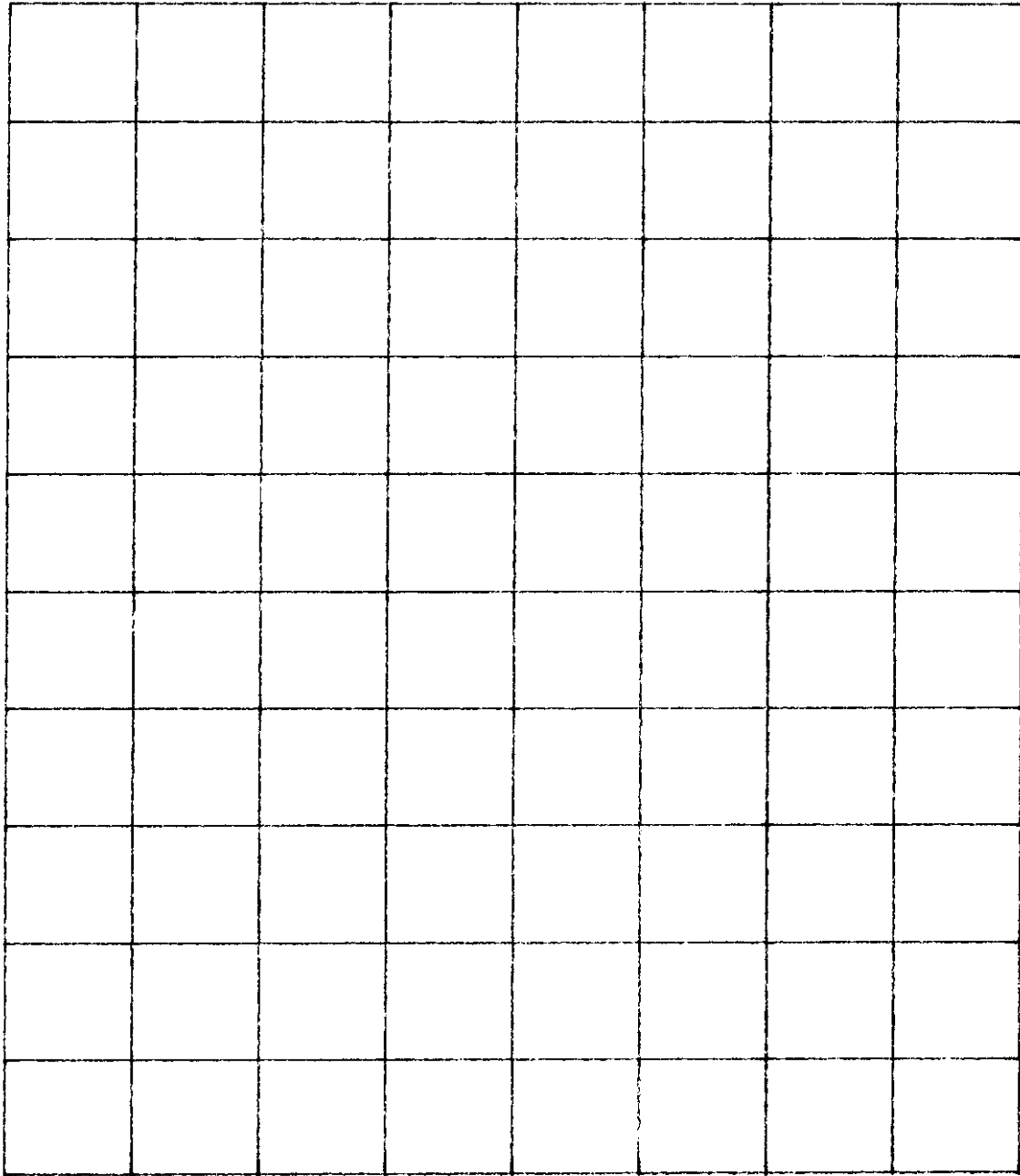
Customer:	Samson Technologies Corp.
Test Sample:	174.6 Mhz Superheterodyne Receiver
Model No.:	Stage 44 FCC ID:CCRSR44
Test Method:	FCC 15.107(a) Conducted Emissions
Notes:	Lead Tested: Neutral Detector: Peak
Date:	May 4, 1998
Tech:	Dennis Cortes
Sheet	2 of 2



**Retlif Testing Laboratories**

Report No. R-7515-4

10: 40: 03 MAY 04, 1998  
 R-7515 STAGE44 COND. EMIS DC LEAD-HOT  
 REF 85.0 dBμV AT 10 dB



PEAK  
 LOG  
 10  
 dB/  
 OFFST  
 10.0  
 dB  
 DL  
 48.0  
 dBμV  
 VA SB  
 SC FC  
 CORR

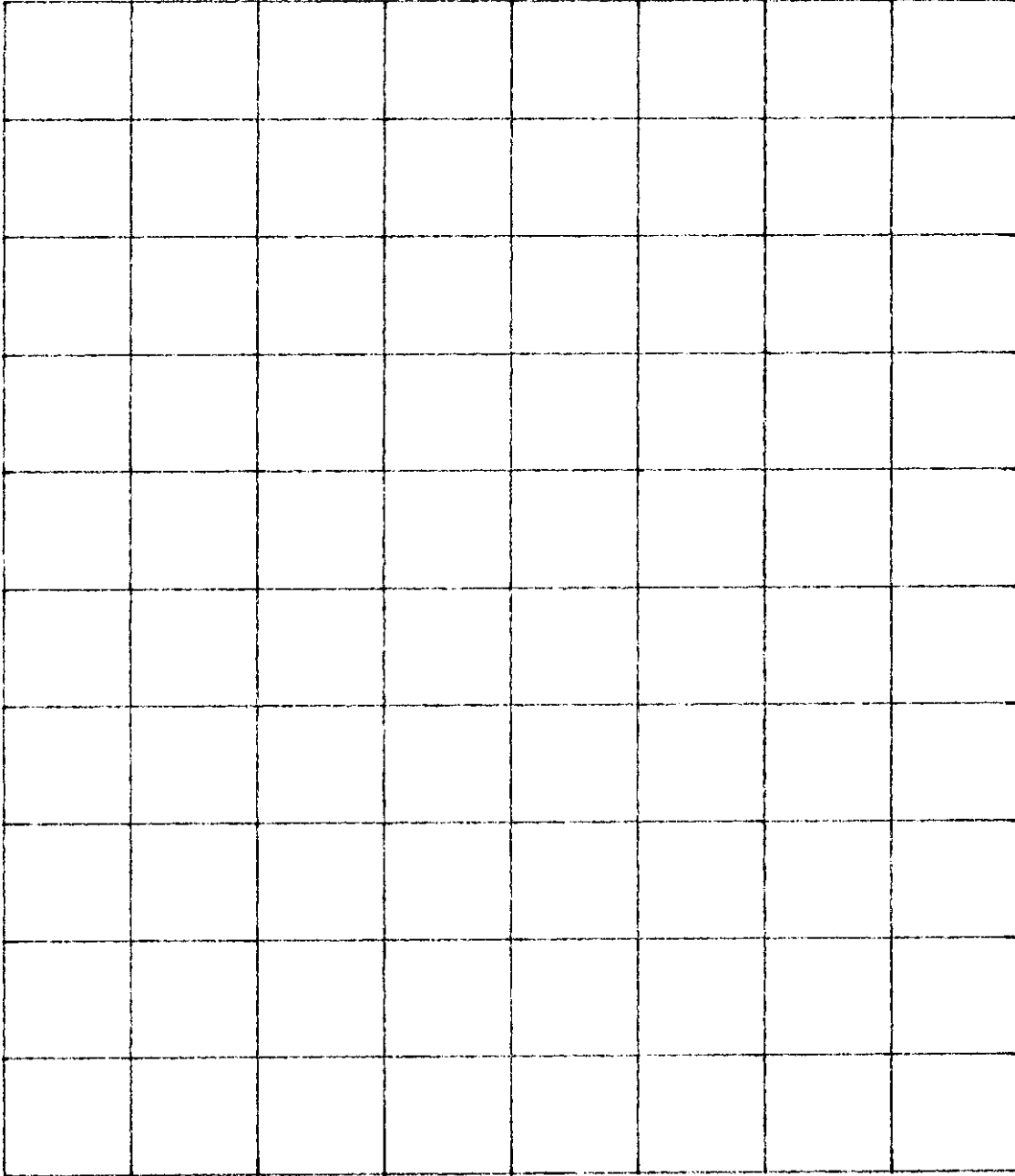
START 450 KHZ  
 #RES BW 10 KHZ  
 STOP 30.00 MHZ  
 #SWP 20.0 sec  
 VBW 30 KHZ

Customer: Samson Technologies Corp.  
 Test Sample: 199.6 Mhz Superheterodyne Receiver  
 Model No: Stage 44 FCC ID:CCRSR44  
 Test Method: FCC 15.107(a) Conducted Emissions  
 Notes: Lead Tested: Hot  
 Detector: Peak  
 Date: May 4, 1998 Tech: Dennis Cortes Sheet 1 of 2



Retlif Testing Laboratories  
 Report No. R-7515-4

10:33:37 MAY 04, 1998  
 R-7515 STAGE44 COND. EMIS DC LEAD-NEUTRAL  
 REF 85.0 dBμV AT 10 dB



PEAK  
 LOG  
 10  
 dB/  
 OFFST  
 10.0  
 dB  
 DL  
 48.0  
 dBμV  
 VA SB  
 SC FC  
 CORR

START 450 KHz  
 #RES BW 10 KHz  
 STOP 30.00 MHz  
 #SWP 20.0 sec  
 VBW 30 KHz

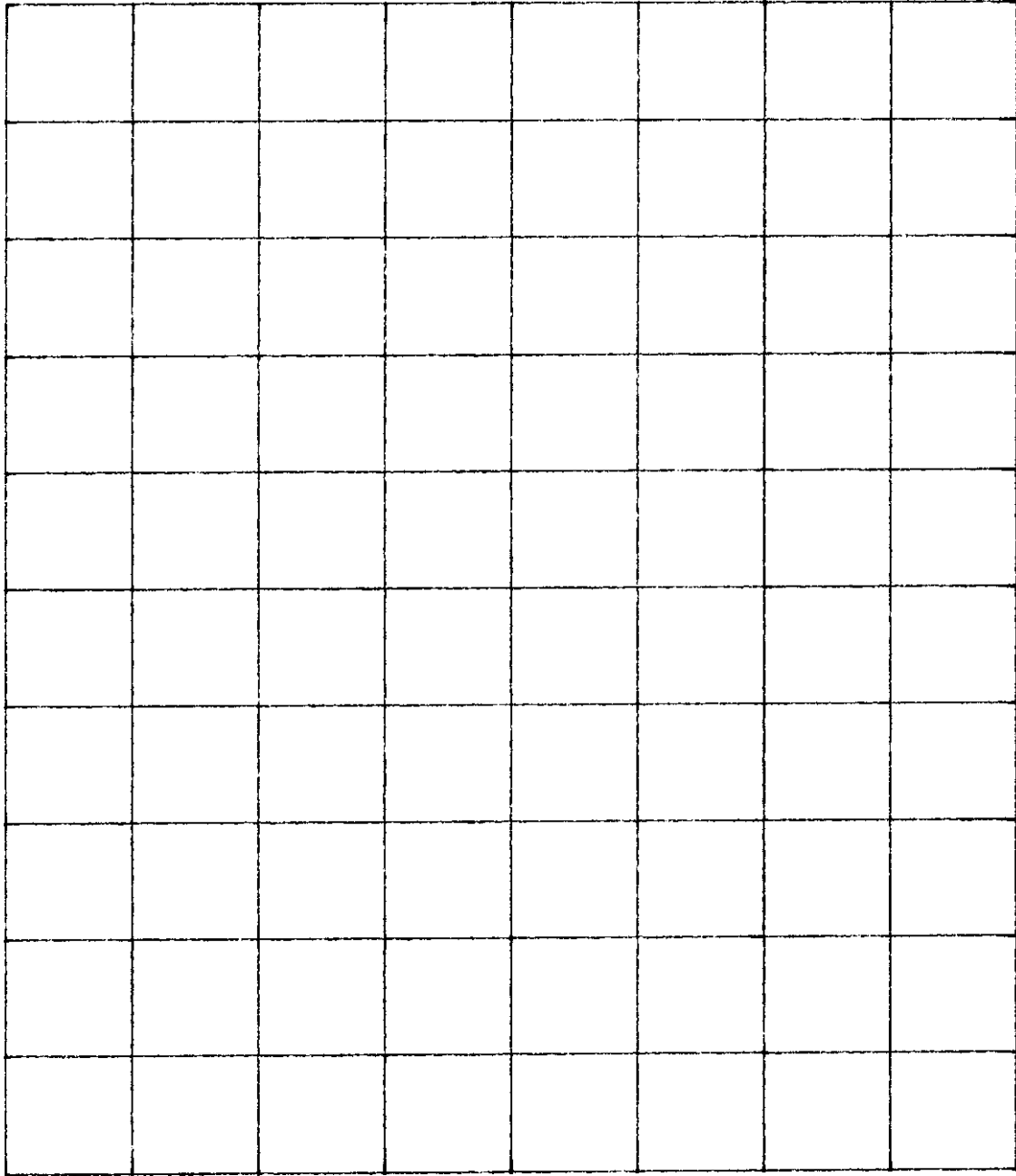
Customer: Samson Technologies Corp.  
 Test Sample: 199.6 Mhz Superheterodyne Receiver  
 Model No.: Stage 44 FCC ID:CCRSR44  
 Test Method: FCC 15.107(a) Conducted Emissions  
 Notes: Lead Tested: Neutral  
 Detector: Peak  
 Date: May 4, 1998 Tech: Dennis Cortes Sheet 2 of 2



Retlif Testing Laboratories

Report No. R-7515-4

10:20:22 MAY 04, 1998  
 R-7515 STAGE44 COND. EMIS DC LEAD-HOT  
 REF 85.0 dBμV AT 10 dB



PEAK  
 LOG  
 10  
 dB/  
 OFFST  
 10.0  
 dB  
 DL  
 48.0  
 dBμV  
 VA SB  
 SC FC  
 CORR

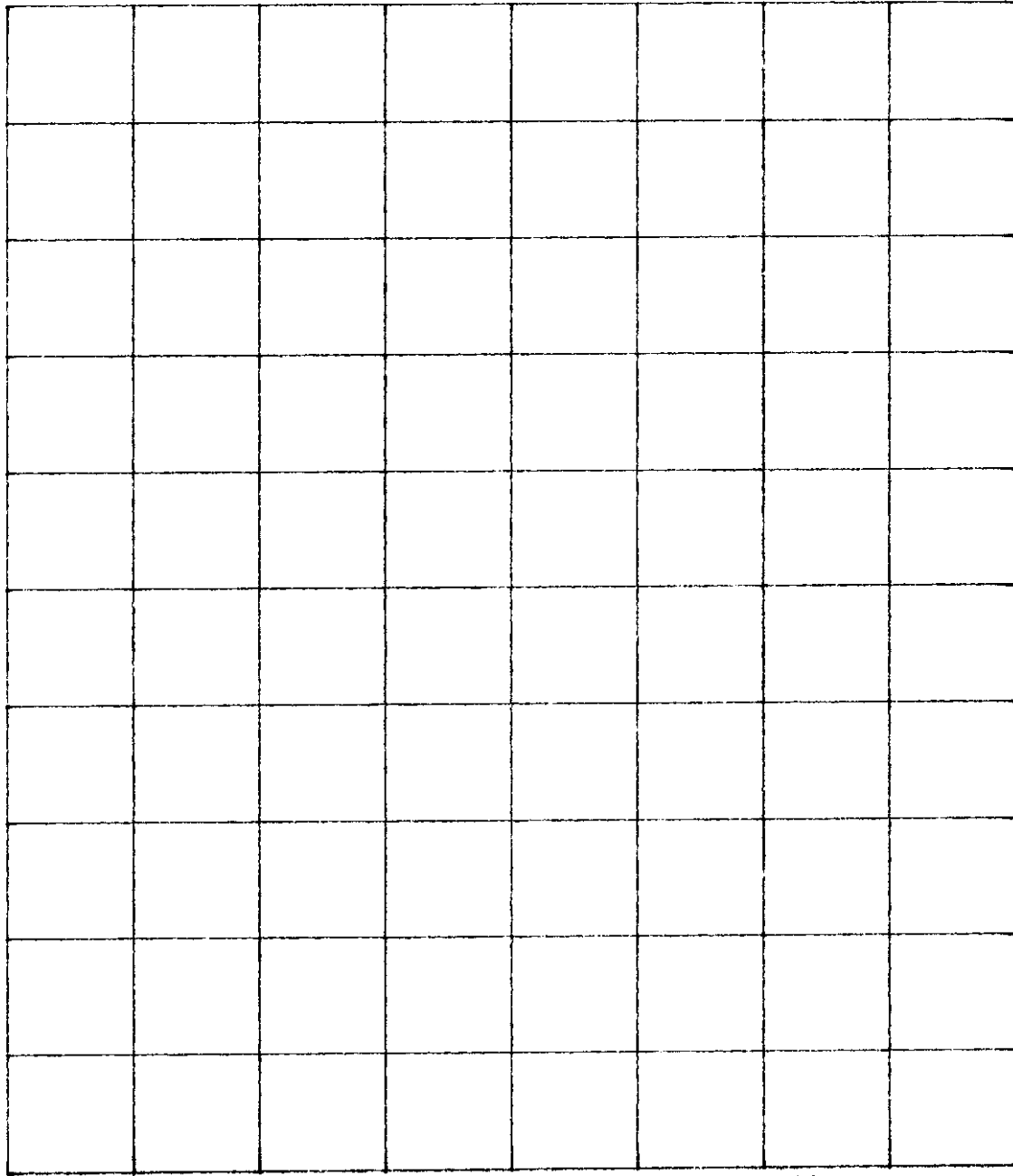
START 450 KHZ  
 #RES BW 10 KHZ  
 STOP 30.00 MHZ  
 #SWP 20.0 sec  
 VBW 30 KHZ

Customer: Samson Technologies Corp.  
 Test Sample: 213.2 Mhz Superheterodyne Receiver  
 Model No.: Stage 44 FCC ID:CCRSR44  
 Test Method: FCC 15.107(a) Conducted Emissions  
 Notes: Lead Tested: Hot  
 Detector: Peak  
 Date: May 4, 1998 Tech: Dennis Cortes Sheet 1 of 2



**Retlif Testing Laboratories**  
 Report No. R-7515-4

10:27:04 MAY 04, 1998  
 R-7515 STAGE44 COND. EMIS DC LEAD-NEUTRAL  
 REF 85.0 dB $\mu$ V AT 10 dB



PEAK  
 LOG  
 10 dB/  
 OFFST  
 10.0 dB  
 DL  
 48.0 dB $\mu$ V  
 VA SB  
 SC FC  
 CORR

START 450 KHZ #RES BW 10 KHZ  
 STOP 30.00 MHZ #SWP 20.0 sec  
 VBW 30 KHZ

Customer:	Samson Technologies Corp.
Test Sample:	213.2 Mhz Superheterodyne Receiver
Model No.:	Stage 44 FCC ID:CCRSR44
Test Method:	FCC 15.107(a) Conducted Emissions
Notes:	Lead Tested: Neutral Detector: Peak
Date:	May 4, 1998
Tech:	Dennis Cortes
Sheet:	2 of 2



Retlif Testing Laboratories

Report No. R-7515-4

RADIATED EMISSIONS

TEST DATA



**Retlif Testing Laboratories**

Test Report Number R-7515-4  
FCC ID: CCRVR3TD



# RETLIF TESTING LABORATORIES

## TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Radiated Emissions, 30 MHz to 2 GHz		
CUSTOMER:	Samson Technologies	JOB No.:	R-7515-4
TEST SAMPLE:	173.6 Mhz to 216.2 Mhz Superheterodyne Receiver FCC ID: CCRSR44		
MODEL No.:	Stage 44	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15, Subpart B, Class B		PARAGRAPH: 15.109(a)
OPERATING MODE:	Continuously Receiving on 174.6 Mhz		
TECHNICIAN:	Dennis Cortes	DATE:	May 7, 1998
NOTES:	Detector Function: Quasi-Peak Test Distance: 3 Meters		

Test Frequency	Antenna Position	Turntable Position	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(H/V) - Height	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
V							V
88.00							100
88.00							150
V							V
109.50	V-1.0	135	36.0	-11.6	24.4	16.6	
164.30	V-1.0	248	48.5	-9.0	39.5	94.4	
V							V
216.00							150
216.00							200
V							V
328.30	V-1.0	270	32.3	-2.9	29.4	29.5	
V							V
960.00							200
960.00							500
V							V
2000.00							500

The frequency range was scanned from 30 MHz to 2 GHz. All emissions not recorded were more than 10dB below the specified limit. Emissions observed from the EUT do not exceed the specified limit.

# RETLIF TESTING LABORATORIES

## TABULAR DATA SHEET

TEST METHOD: FCC Part 15 Radiated Emissions, 30 MHz to 2 GHz

CUSTOMER: Samson Technologies JOB No.: R-7515-4

TEST SAMPLE: 173.6 Mhz to 216.2 Mhz Superheterodyne Receiver

FCC ID: CCRSR44

MODEL No.: Stage 44 SERIAL No.: N/A

TEST SPECIFICATION: FCC Part 15, Subpart B, Class B PARAGRAPH: 15.109(a)

OPERATING MODE: Continuously Receiving on 199.6 Mhz

TECHNICIAN: Dennis Cortes DATE: May 7, 1998

NOTES: Detector Function: Quasi-Peak  
Test Distance: 3 Meters

Test Frequency	Antenna Position	Turntable Position	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(H/V) - Height	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
V							V
88.00							100
88.00							150
V							V
126.00	V-1.0	158	41.0	-10.7	30.3	32.7	
189.40	V-1.4	203	40.5	-8.5	32.0	39.8	
V							V
216.00							150
216.00							200
V							V
960.00							200
960.00							500
V							V
2000.00							500
The frequency range was scanned from 30 MHz to 2 GHz. All emissions not recorded were more than 10dB below the specified limit. Emissions observed from the EUT do not exceed the specified limit.							

# RETLIF TESTING LABORATORIES

## TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Radiated Emissions, 30 MHz to 2.132 GHz		
CUSTOMER:	Samson Technologies	JOB No.:	R-7515-4
TEST SAMPLE:	173.6 Mhz to 216.2 Mhz Superheterodyne Receiver FCC ID: CCRSR44		
MODEL No.:	Stage 44	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15, Subpart B, Class B PARAGRAPH: 15.109(a)		
OPERATING MODE:	Continuously Receiving on 213.2 Mhz		
TECHNICIAN:	Dennis Cortes	DATE:	May 7, 1998
NOTES:	Detector Function: Quasi-Peak Test Distance: 3 Meters		

Test Frequency	Antenna Position	Turntable Position	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(H/V) - Height	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
V							V
88.00							100
88.00							150
V							V
191.00	V-1.1	225	31.0	-8.5	22.5	13.3	
203.00	V-1.0	225	47.8	-8.0	39.8	97.7	
214.00	V-1.0	248	49.8	-7.6	42.2	128.8	
V							V
216.00							150
216.00							200
V							V
416.50	V-1.3	225	35.0	-0.6	34.4	52.5	
428.00	V-1.1	158	27.1	-0.3	26.8	21.9	
V							V
960.00							200
960.00							500
V							V
1070.00	V-1.0	203	49.0	-7.3	41.7	121.6	
1284.00	V-1.0	225	47.5	-5.4	42.1	127.4	
1498.00	V-1.0	203	47.7	-4.8	42.9	139.6	
V							V
2132.00							500

The frequency range was scanned from 30 MHz to 2.132 GHz. All emissions not recorded were more than 10dB below the specified limit. Emissions observed from the EUT do not exceed the specified limit.

## EQUIPMENT LIST

### FCC Part 15, Receiver Notification Testing

EN	Type	Manufacturer	Frequency Range	Model No.	Cal Date	Due Date
067	Open Area Test Site	Retlif	3 Meter	RNY	8/30/97	8/30/99
076	LISN	Solar Electronics	10 kHz - 30 MHz	8012-50-R-24BNC	1/16/98	1/16/99
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	10/6/97	10/6/98
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/20/97	6/20/98
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	3/2/98	9/2/98
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	3/4/98	3/4/99
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	3/3/98	9/3/98
202	Transient Limiter	Hewlett Packard	.009 MHz - 200 MHz	11947A	8/21/97	8/21/98
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/20/97	6/20/98
451B	Tuned Dipole Antenna	Empire Devices	140 - 400 MHz	DM-105-T2	8/1/97	8/1/00
523	Biconilog	Electro-Mechanics	26 MHz - 1100 MHz	3143	9/30/97	9/30/98
530	AM/FM Signal Generator	Marconi Instru.	10 kHz - 1.2 GHz	2023	4/29/98	4/29/99



**Retlif Testing Laboratories**

Test Report Number No. R-7515-2

FCC ID: CCRVR3TD