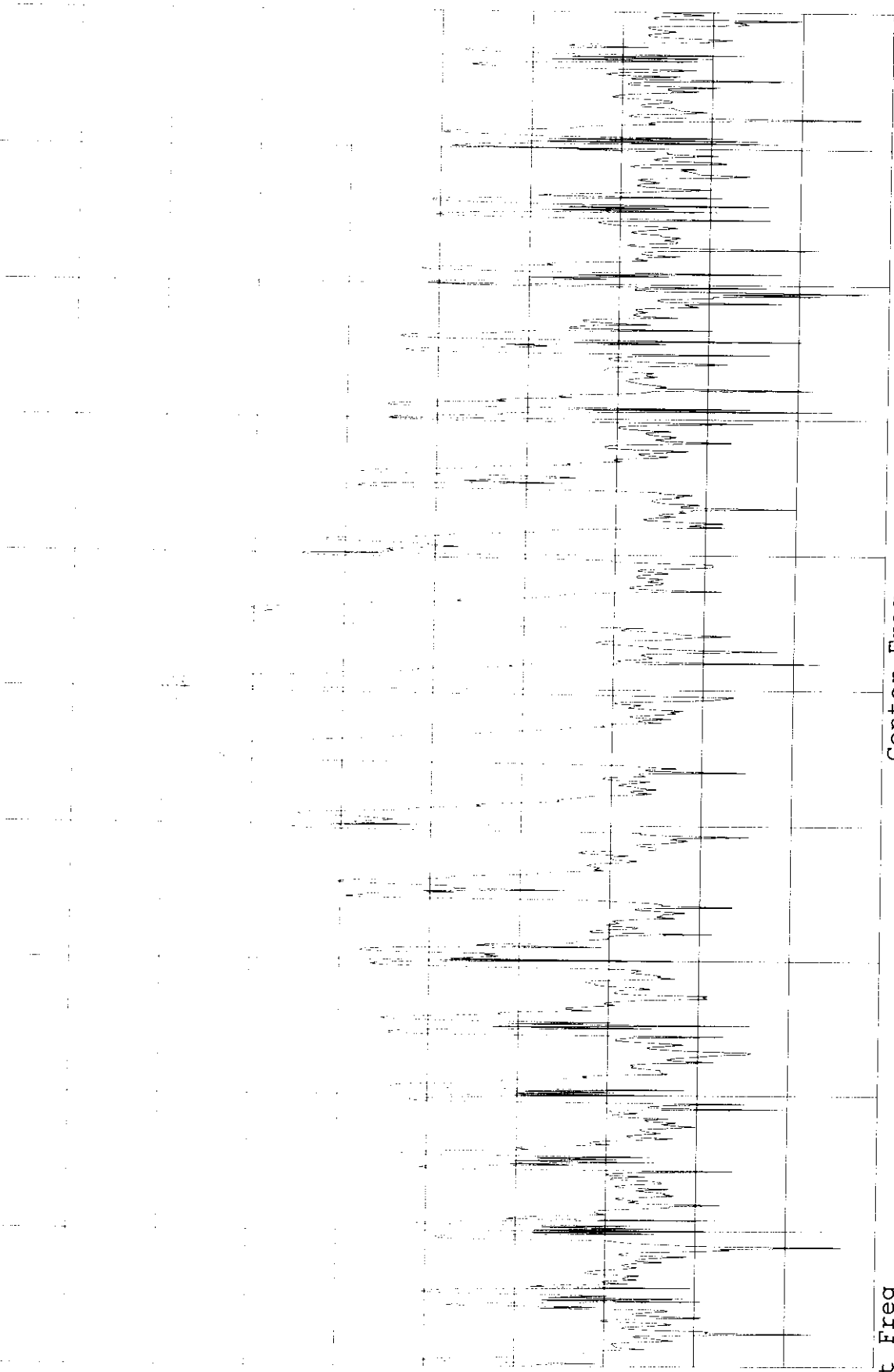


Additional Data Provided By CKC Laboratories, Inc.
Occupied Bandwidth Plots
Extrapolation Plot

Title: HID - Microprox; 6005-8A - 6April98
Ref Level 97 dBuV ATTN 0 dB Marker: 125.429KHz 75.5 dBuV

10 dB/



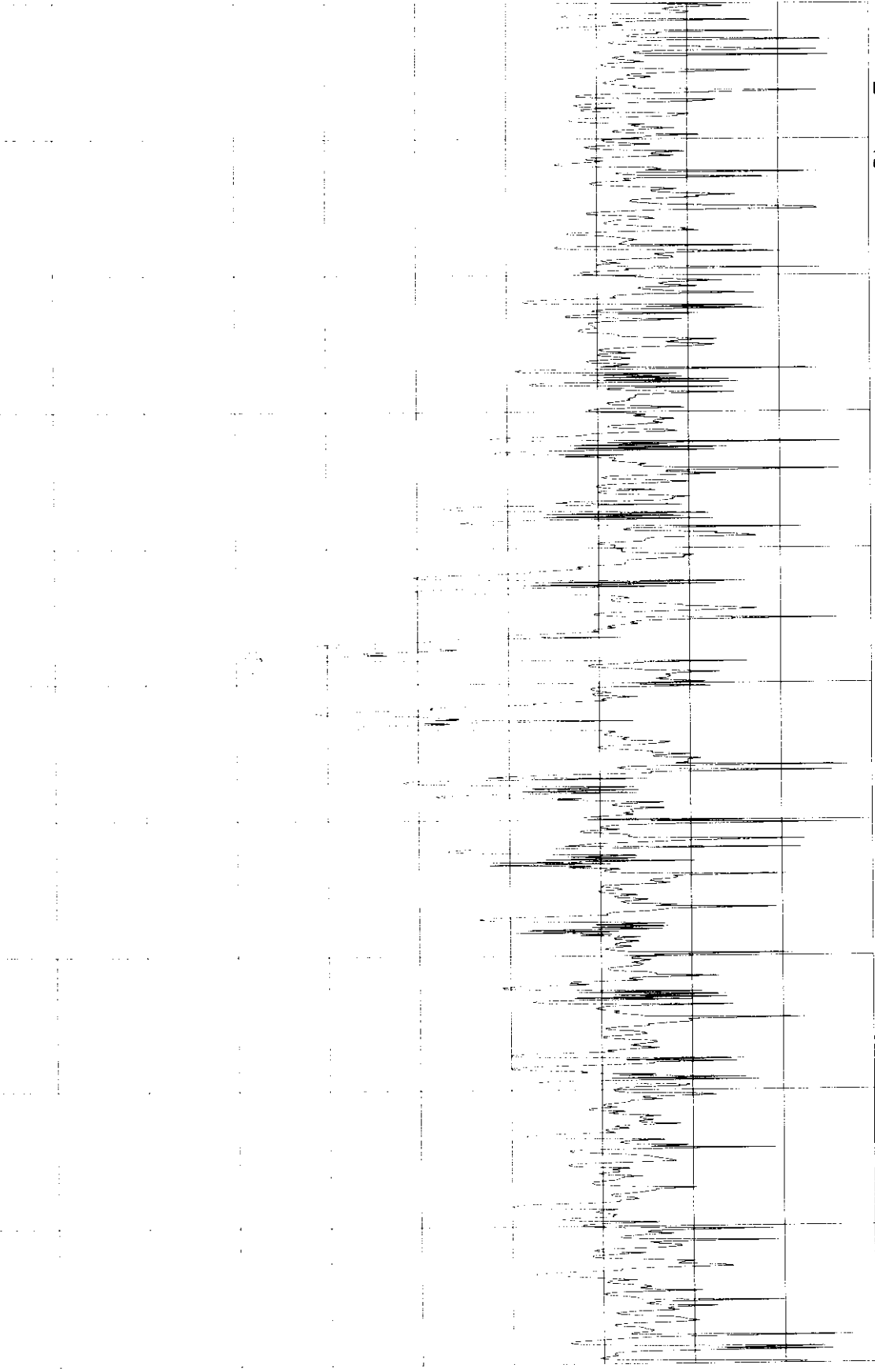
Start Freq
124.429KHz
RES BW 3.0KHz

Center Freq
125.429KHz
VID BW 3.0KHz

Stop Freq
126.429KHz
SWP 2

Title: HID - Microprox; 6005-8A - 6April98
Ref Level 97 dBuV ATTN 0 dB Marker: 125.61KHz 65.2 dBuV

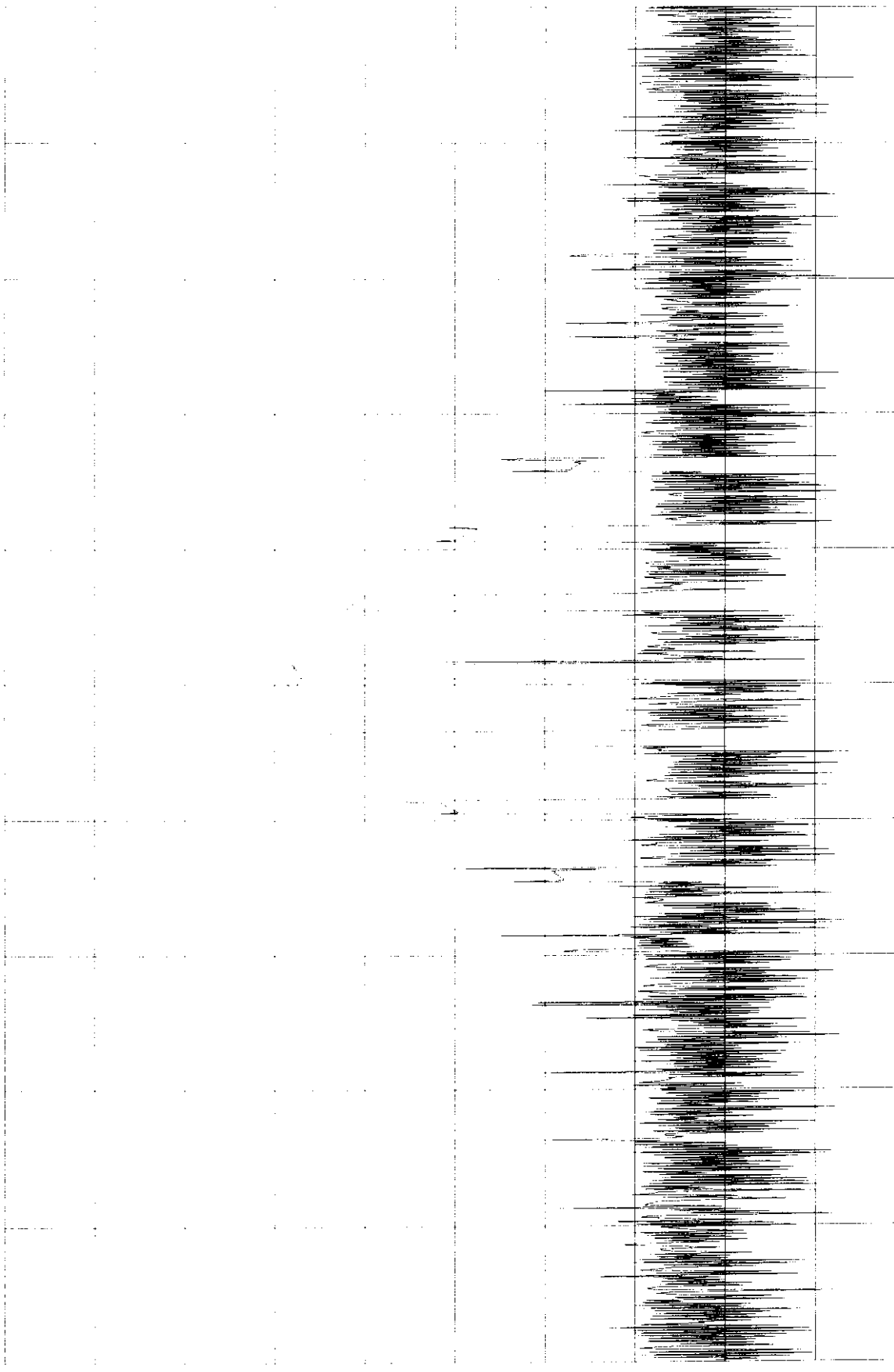
10 dB/



Start Freq 120.42KHz RES BW 3.0KHz
Center Freq 125.425KHz VID BW 3.0KHz
Stop Freq 130.43KHz SWP 2

Title: HID - Microprox; 6005-8A - 6April98
Ref Level 107 dBuV ATTN 10 dB Marker: 125.5KHz 75 dBuV

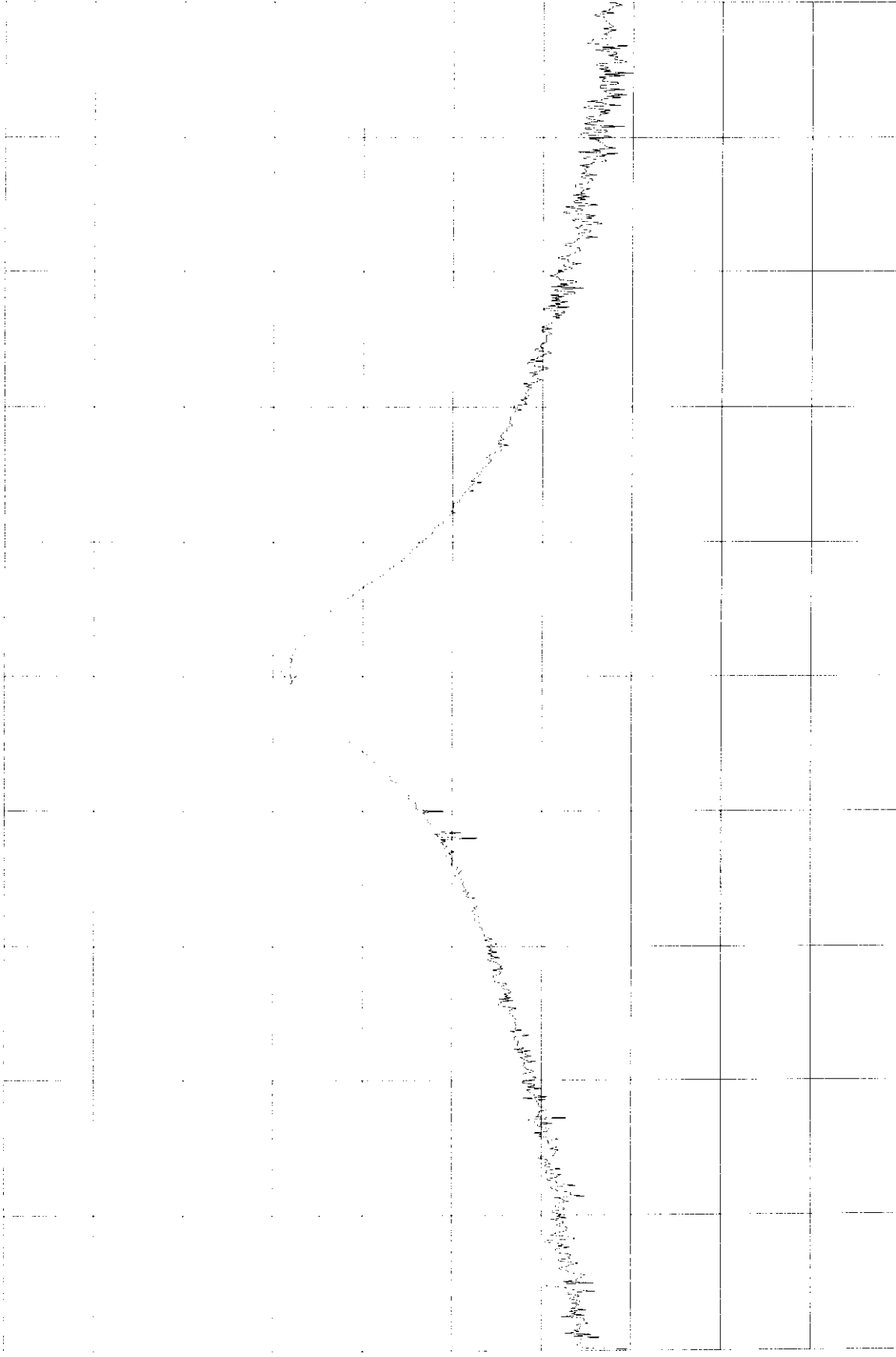
10 dB/



Start Freq 117.92KHz RES BW 1.0KHz
Center Freq 125.425KHz VID BW 1.0KHz
Stop Freq 132.93KHz SWP 2

Title: HID - Microprox; 6005-8A - 6April98
Ref Level 107 dBuV ATTEN 10 dB Marker: 125.49KHz 75.1 dBuV

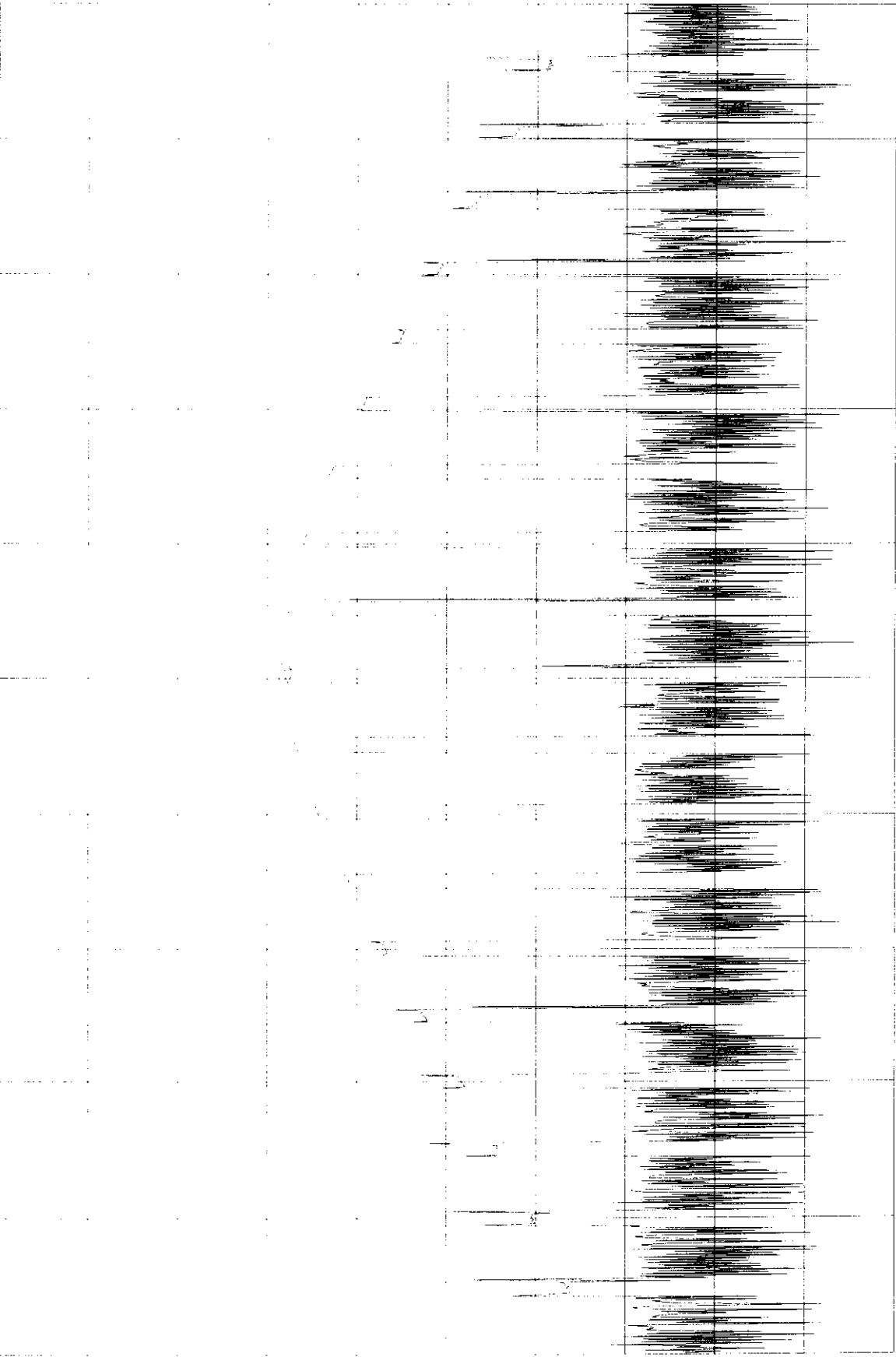
10 dB/



Start Freq 117.92KHz
RES BW 1.0KHz
Center Freq 125.425KHz
VID BW 1.0KHz
Stop Freq 132.93KHz
SWP 100

Title: HID - Microprox; 6005-8A - 6April98
Ref Level 107 dBuV ATTN 10 dB Marker: 125.449KHz 75.1 dBuV

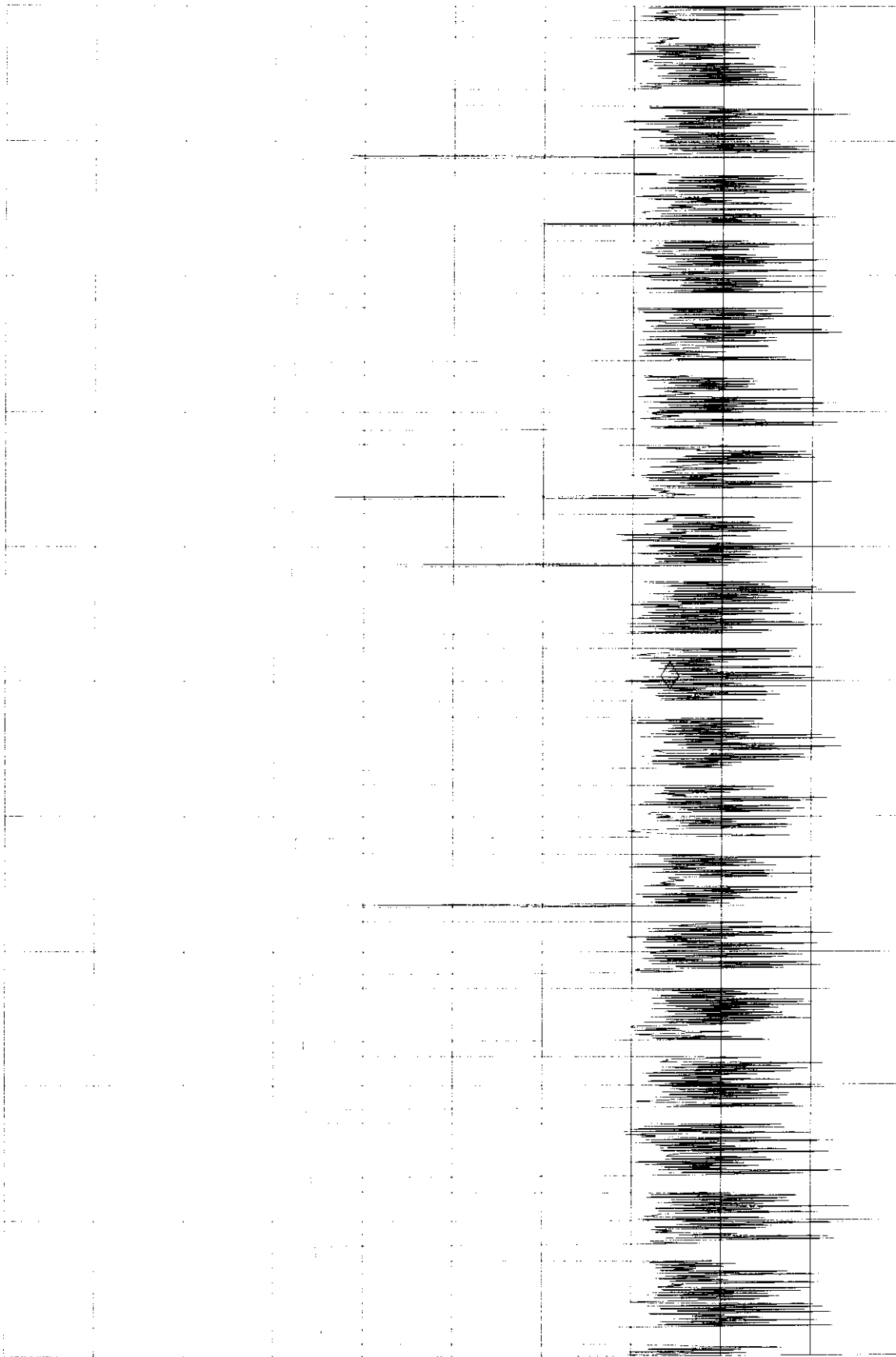
10 dB/



Start Freq 122.929KHz RES BW 1.0KHz
Center Freq 125.429KHz VID BW 1.0KHz
Stop Freq 127.929KHz SWP 2

Title: HID - Microprox; 6005-8A - 6April98
Ref Level 107 dBuV ATTN 10 dB Marker: 125.433KHz 32.8 dBuV

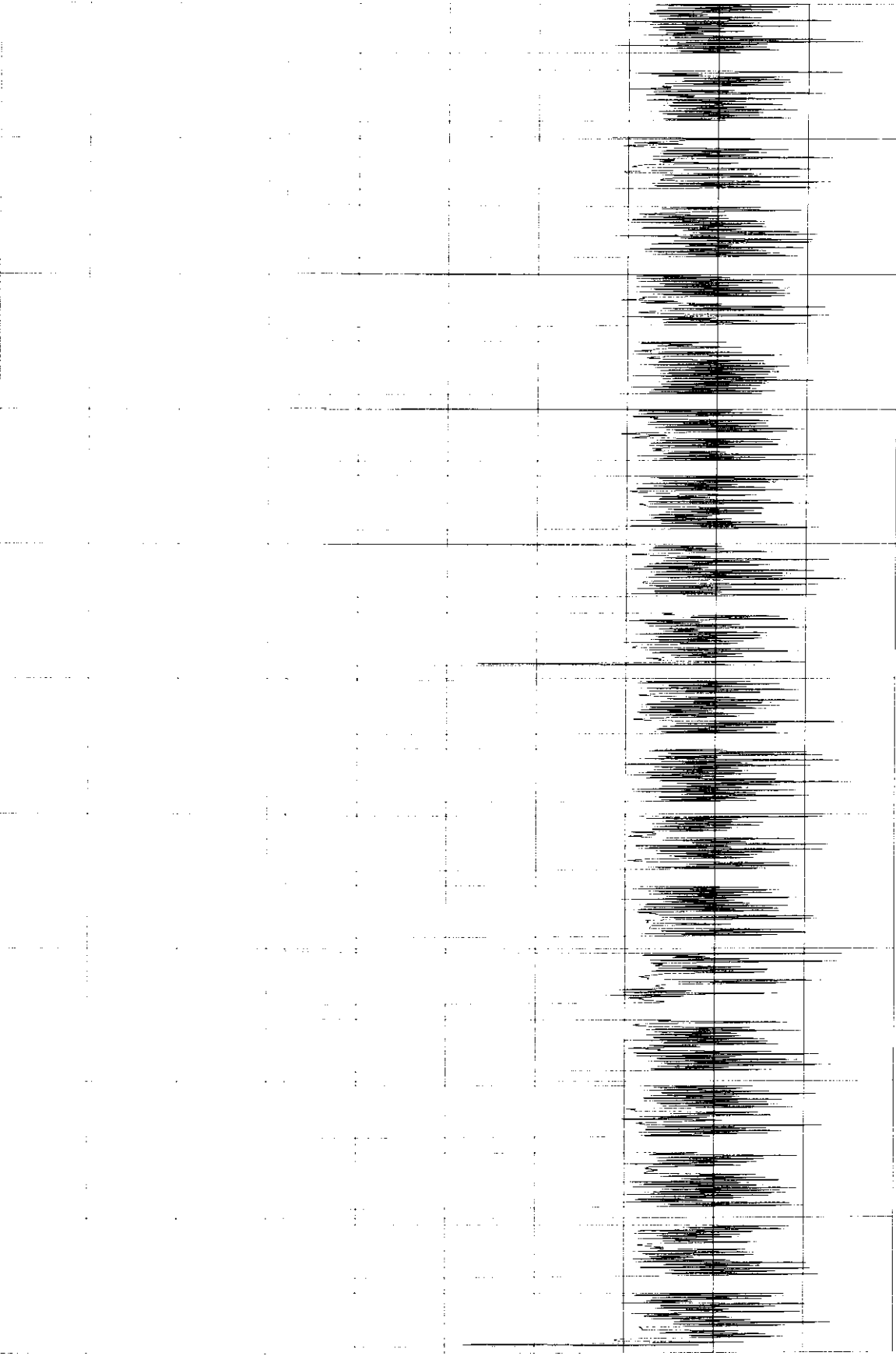
10 dB/



Start Freq 124.929KHz RES BW 1.0KHz
Center Freq 125.429KHz VID BW 1.0KHz
Stop Freq 125.929KHz SWP 2

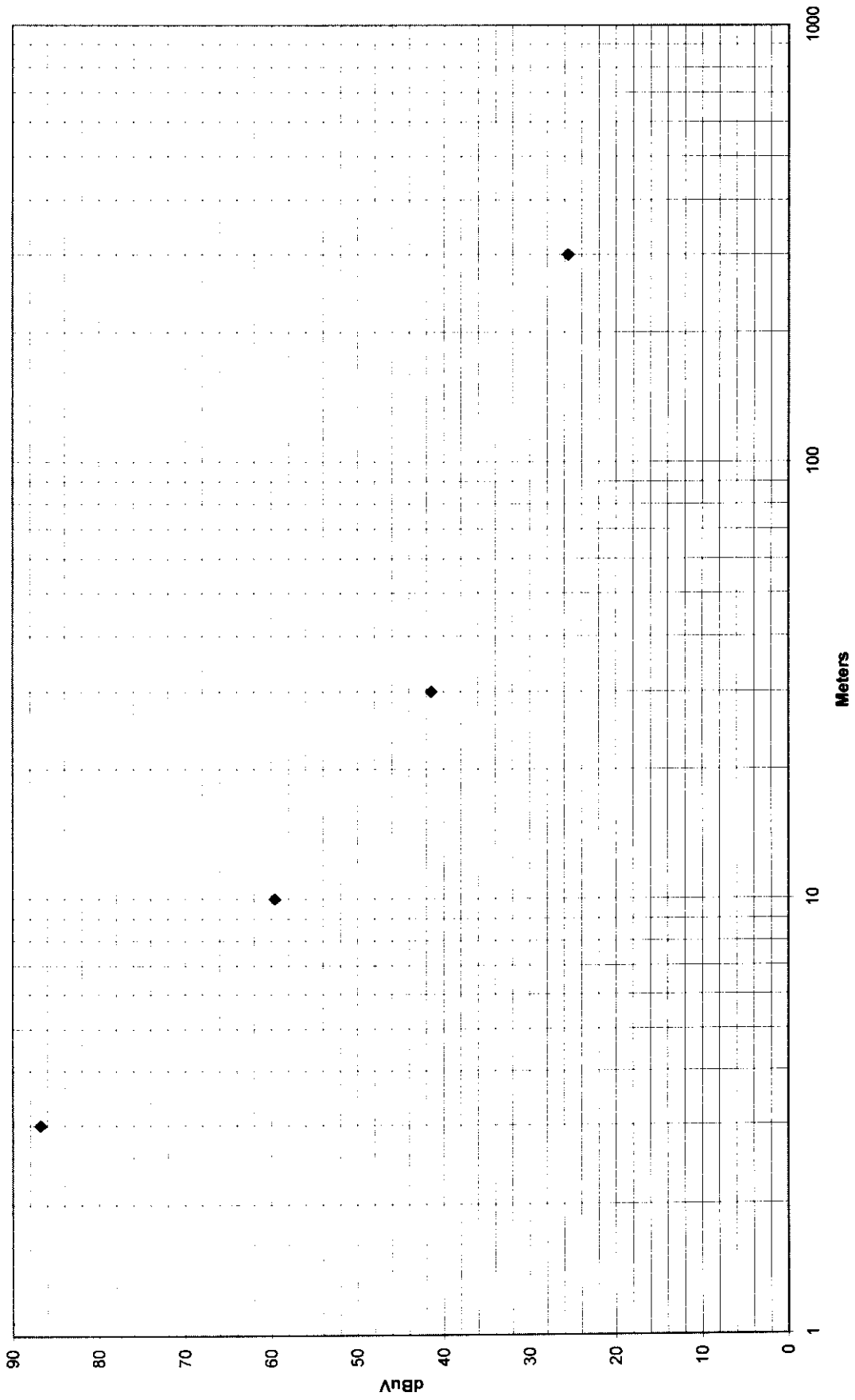
Title: HID - Microprox; 6005-8A - 6April98
Ref Level 107 dBuV ATTEN 10 dB Marker: .21Hz 75.1 dBuV

10 dB/



Start Freq 125.429KHz RES BW 1.0KHz
Center Freq 125.429KHz VID BW 1.0KHz
Stop Freq 125.429KHz SWP 2

HID Microprox 6005-8A



CKC Laboratories, Inc.

5473A Clouds Rest Rd, Barn
Mariposa, CA 95338
(800)-500-4EMC

Customer: HID Corporation Page 1
 Work Order#: 68729 File Name: FCCM11.DAT
 Specification: FCC 15 C PARA 15.209 Date: Mon Apr-06-1998
 Test Type: H-Field Time: 16:10:53
 Conducted By: Dustin Oaks Sequence # 11
 Equipment: Proximity Reader
 Manufacturer: HID S/N: N/A
 Model#: 6005-8A

Equipment Under Test (* = EUT)

Function	Manufacturer	Model#	S/N
*Proximity Reader	HID	6005-8A	N/A

Support Devices

Function	Manufacturer	Model#	S/N
DC Power Supply	HP	6205C	2228A-01775

Test Conditions

EUT operating on 12VDC via DC power supply. EUT operating
IAW manufactures specifications.

Test Distance: 3 Meters

Readings listed in order taken.

#	Freq	Rdng dB μ V	MAGLO	Barn	Dist	Corr dB μ V/m	Spec	Margin	Polar	
1	125.405k	48.7	+10.8	+0.1	+0.0	59.6	0.0	+59.6	None	
10 meter point										
2	125.418k	75.9	+10.8	+0.1	+0.0	86.8	0.0	+86.8	None	
3 Meter reading										
3	125.364k	30.5	+10.8	+0.1	+0.0	41.4	0.0	+41.4	None	
30 Meter reading (Grass Level, NO signal found)										

Handwritten notes:
 9-10-98
 420

EXHIBIT D

CKC TEST REPORT



CERTIFICATION TEST REPORT
FOR THE
PROXIMITY READER, 6005/8A PROXPOINT
FCC PART 15 SUBPART C
COMPLIANCE

DATE OF ISSUE: JUNE 6, 1998

PREPARED FOR:

HID Corporation
11658 N. Huron Street
Denver, CO 80234-2905

PREPARED BY:

Monika Lopez
CKC Laboratories, Inc.
5473A Clouds Rest
Mariposa, CA 95338

P.O. No: 006049

W.O. No: 68,729

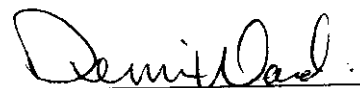
Report No: FC98-014

Date of test: April 6, 1998

DOCUMENTATION CONTROL:


Tracy Phillips

APPROVED BY:


Dennis Ward
Director of Laboratories
CKC Laboratories

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ADMINISTRATIVE INFORMATION

DATE OF TEST: April 6, 1998

PURPOSE OF TEST: To demonstrate the compliance of the Proximity Reader, 6005/8A ProxPoint, with the requirements for FCC Part 15 Subpart C devices.

MANUFACTURER: HID Corporation
11658 N. Huron Street
Denver, CO 80234-2905

REPRESENTATIVE: Frank de Vall

TEST LOCATION: CKC Laboratories, Inc.
5473A Clouds Rest
Mariposa, CA 95338

TEST PERSONNEL: Dustin Oaks

TEST METHOD: ANSI C63.4 1992

FREQUENCY RANGE TESTED: 10 kHz - 1000 MHz

EQUIPMENT UNDER TEST: Proximity Reader
Manuf: HID CORPORATION
Model: 6005/8A
Serial: N/A
FCC ID: JQ660XX (Pending)

ADMINISTRATIVE INFORMATION

DATE OF TEST: April 6, 1998

PURPOSE OF TEST: To demonstrate the compliance of the Proximity Reader, 6005/8A ProxPoint, with the requirements for FCC Part 15 Subpart C devices.

MANUFACTURER: HID Corporation
11658 N. Huron Street
Denver, CO 80234-2905

REPRESENTATIVE: Frank de Vall

TEST LOCATION: CKC Laboratories, Inc.
5473A Clouds Rest
Mariposa, CA 95338

TEST PERSONNEL: Dustin Oaks

TEST METHOD: ANSI C63.4 1992

FREQUENCY RANGE TESTED: 10 kHz - 1000 MHz

EQUIPMENT UNDER TEST: Proximity Reader
Manuf: HID CORPORATION
Model: 6005/8A
Serial: N/A
FCC ID: JQ660XX (Pending)

SUMMARY OF RESULTS

The HID Corporation Proximity Reader, 6005/8A ProxPoint, was tested in accordance with ANSI C63.4 1992 for compliance with the requirements of Part 15, Subpart C of the FCC Rules.

As received, the above equipment was found to be fully compliant with the limits of FCC Part 15, Subpart C.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

RFID Proximity Reader.

MEASUREMENT UNCERTAINTY

Associated with data in this report is a ± 4 dB measurement uncertainty.

EUT OPERATING FREQUENCY

The EUT was operating at 125 kHz.

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within $+15^{\circ}\text{C}$ and $+35^{\circ}\text{C}$.
The relative humidity was between 20% and 75%.

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device:

DC Power Supply

Manuf: HP
Model: 6205C
Serial: 2228A-01775
FCC ID: N/A

REPORT OF MEASUREMENTS

The following Table 1 reports the highest emissions levels recorded during the tests performed on the Proximity Reader, 6005/8A ProxPoint. The data sheets from which this table were compiled are contained in Appendix B.

Table 1: Three Highest Radiated Emission Levels										
FREQUENCY MHz	METER READING dB μ V	CORRECTION FACTORS				CORRECTED READING dB μ V/m	SPEC LIMIT dB μ V/m	MARGIN dB	NOTES	
		Ant dB	Amp dB	Cable dB	Dist dB					
0.125	75.9	10.9				86.8	0.0	86.8	N	3
0.125	48.7	10.9				59.6	0.0	59.6	N	10
0.125	30.5	10.9				41.4	0.0	41.4	N	50

Test Method: ANSI C63.4 1992
Spec Limit : FCC Part 15.209
Test Distance: 3, 10 & 30 Meters

NOTES: H = Horizontal Polarization
V = Vertical Polarization
N = No Polarization
D = Dipole Reading
Q = Quasi Peak Reading
A = Average Reading

25.6 dB μ V/m @ 300 m

COMMENTS: The EUT was operating at 12VDC via a DC power supply. The EUT was operating IAW manufactures specifications.

In accordance with 15.31(f)(2), the following calculation was used to determine the calculated spec limit at 10 meters using the square of an inverse linear distance extrapolation factor of 40 dB/decade. The operating frequency of the device was 125 kHz.

Reading @ 10 meters = 59.6 dB/uV

Spec Limit @ 300 meters = $2400/F(\text{khz})$
= $(2400/125)$
= $(\log 19.2) * 20$
Spec Limit = 25.6 dBuV/m

Calculated Spec Limit @ 10 meters
= $60 \text{ dBuV/m} + 25.6 \text{ dBuV/m}$
Calculated Spec Limit @ 10 meters is 85.6 dBuV/m

Table 2: Six Highest Radiated Emission Levels

FREQUENCY MHz	METER READING dBµV	CORRECTION FACTORS				CORRECTED READING dBµV/m	SPEC LIMIT dBµV/m	MARGIN dB	NOTES
		Ant dB	Amp dB	Cable dB	Dist dB				
0.251	24.2	11.0		0.0	0.0	35.2	45.6	-10.4	N
0.377	20.5	11.2		0.0	0.0	31.7	45.6	-13.9	N
0.502	17.2	11.0		0.1	-10.0	18.3	33.6	-15.3	N
0.628	18.8	10.9		0.1	-10.0	19.8	31.6	-11.8	N
0.753	9.3	10.8		0.1	-10.0	10.2	30.0	-19.8	N
0.879	12.1	10.8		0.1	-10.0	13.0	28.7	-15.7	N

Test Method: ANSI C63.4 1992
 Spec Limit : FCC Part 15.209
 Test Distance: 10 & 30 Meters

NOTES: H = Horizontal Polarization
 V = Vertical Polarization
 N = No Polarization
 D = Dipole Reading
 Q = Quasi Peak Reading
 A = Average Reading

COMMENTS: The EUT is operating on 12VDC via DC power supply. The EUT operating IAW manufactures specifications. This is a frequency spec NOT a Magnitude spec.

TABLE A

LIST OF TEST EQUIPMENT

VCCI Acceptance No. R-565 & C-580

1. Spectrum Analyzer, Hewlett Packard, Model No. 85662A, S/N 2403A08241
2. Preamp, Hewlett Packard, Model No. 8447D, S/N -1937A02604.
3. Quasi-Peak Adapter, Hewlett Packard, Model No. 85650A, S/N 2811A01267.
4. Biconical Antenna, A & H Systems, Model No. SAS-200/542, S/N 156.
5. Log Periodic Antenna, A & H Systems, Model No. SAS-200/512, S/N 154.
6. Magnetic Loop Antenna, EMCO, Model No. 6502, S/N 1074.
7. Horn Antenna, EMCO, Model No. 3115, S/N 4683.
8. LISN (FCC), Solar Electronics, S/N 855996, 992.
9. LISN, Solar Electronics, S/N 8144793, 474.
10. Test software, EMI Test 2.86.

EUT SETUP

The equipment under test (EUT) and the peripheral listed were setup in a manner that represented their normal use. Any special conditions required for the EUT to operate normally are identified in the comments that accompany Table 1 for radiated emissions levels. Additionally, a complete description of the port and I/O cable is included on the information sheets contained in Appendix A.

During radiated emissions testing, the EUT was mounted on a nonconductive, rotating table 1 meter above the conductive grid. The nonconductive table dimensions were 1 meter by 1.5 meters. This configuration is typical for radiated emissions testing of wall mounted devices.

The I/O cable was connected to the EUT and peripheral in the manner required for normal operation of the system.

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed in Table A were used to collect the radiated emissions data for the Proximity Reader, 6005/8A ProxPoint. For radiated measurements below 30 MHz, the magnetic loop antenna was used. For frequencies from 30 to 300 MHz, the biconical antenna was used. For frequencies from 300 to 1000 MHz, the log periodic antenna was used. Refer to the test data sheets contained in Appendix B for the exact distance of the antennas from the edge of the EUT

The HP spectrum analyzer was used for all measurements. Table B shows the analyzer bandwidth settings that were used in designated frequency bands. During radiated testing, the measurements were made with 0 dB of attenuation, a reference level of 97 dB μ V, and a vertical scale of 10 dB per division.

TABLE B : ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE

TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
RADIATED EMISSIONS	10 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz

SPECTRUM ANALYZER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in Table 1 indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the six highest readings, this is indicated as a "Q" or an "A" in Table 1. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data for the Proximity Reader, 6005/8A ProxPoint.

Peak

In this mode, the Spectrum Analyzer or test engineer recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the analyzer called "peak hold," the analyzer had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the analyzer made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the HP 85650A Quasi-Peak Adapter for the HP 8568B Spectrum Analyzer. The detailed procedure for making quasi peak measurements contained in the HP Quasi-Peak Adapter manual were followed.

Average

When the frequencies are below 450 kHz or exceed 1 GHz, average measurements may be made using the spectrum analyzer. To make these measurements, the test engineer reduces the video bandwidth on the analyzer until the modulation of the signal is filtered out. At this point the analyzer is set into the linear mode and the scan time is reduced.

TEST METHODS

The radiated emissions data of the Proximity Reader, 6005/8A ProxPoint, was taken with the HP Spectrum Analyzer. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the "Sample Calculations". The corrected data was then compared to the FCC Part 15, Subpart C emissions limits to determine compliance.

Preliminary and final measurements were taken in order to better ensure that all emissions from the EUT were found and maximized.

Radiated Emissions Testing

During the preliminary radiated scan, the EUT was powered up and operating in its defined FCC test mode with the line cord facing the antenna. The frequency range of 10 kHz to 30 MHz was scanned with the magnetic loop antenna. The frequency range of 30 MHz - 88 MHz was then scanned with the biconical antenna located about 1.5 meter above the ground plane in the vertical configuration. During this scan, the turntable was rotated and all peaks which were at or near the limit were recorded. The frequency range of 100 - 300 MHz was scanned with the biconical antenna in the same manner, and the peaks recorded. Lastly, a scan of the FM band from 88 - 110 MHz was made, using a reduced resolution bandwidth and a reduced frequency span. The biconical antenna was changed to the horizontal polarity and the above steps were repeated. After changing to the log periodic antenna in the horizontal configuration, the frequency range of 300 - 1000 MHz was scanned. The log periodic antenna was changed to the vertical polarity and the frequency range of 300 - 1000 MHz was again scanned. Care was taken to ensure that no frequencies were missed within the FM and TV bands. An analysis was performed to determine if the signals that were at or near the limit were caused by an ambient transmission. If unable to determine by analysis, the equipment was powered down to make the final determination if the EUT was the source of the emission.

For the final radiated scan, the equipment was again positioned with its line cord cable facing the antenna. A thorough scan of all frequencies was manually made using a small frequency span, rotating the turntable as needed. Comparison with the previously recorded measurements was then made.

Using the peak readings from both scans as a guide, the test engineer then maximized the readings with respect to the table rotation, antenna height and configuration of the peripheral and cable. Maximizing of the cable was achieved by monitoring the spectrum analyzer on a closed circuit television monitor while the EUT cable was being moved and rearranged on the EUT table for maximum emissions. Photographs showing the final worst case configuration of the EUT are contained in Appendix A.

Power Output Measurement

At a test distance of 3 meters, the maximum ERP for the Proximity Reader, 6005/8A ProxPoint was measured at 86.8 dBuV/m (in a 50 ohm system). This measurement was made with the EUT's integral antenna, for there is no provision for connecting an external antenna.

SAMPLE CALCULATIONS

The basic spectrum analyzer reading was converted using correction factors as shown in the six highest emissions readings in Table 1. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula:

$$\begin{aligned} & \text{Meter reading (dB}\mu\text{V)} \\ & + \text{Antenna Factor (dB)} \\ & + \text{Cable Loss (dB)} \\ & - \text{Distance Correction (dB)} \\ & - \text{Pre-amplifier Gain (dB)} \\ & = \text{Corrected Reading (dB}\mu\text{V/m)} \end{aligned}$$

This reading was then compared to the applicable specification limit to determine compliance.

APPENDIX A
INFORMATION ABOUT THE EQUIPMENT UNDER TEST

INFORMATION ABOUT THE EQUIPMENT UNDER TEST

Test Software/Firmware: **None**
 CRT was displaying: **NA**
 Power Supply Manufacturer: **Customer supplied**
 Power Supply Part Number:
 AC Line Filter Manufacturer: **NA**
 AC Line Filter Part Number: **NA**

Line voltage used during testing: **12 VDC**

I/O PORTS

Type	#
DC Power & Signals	

CRYSTAL OSCILLATORS

Type	Freq In MHz
Ceramic Resonator	4.00

PRINTED CIRCUIT BOARDS

Function	Model & Rev	Clocks, MHz	Layers	Location
All Electronics	Rev B	4.00	2	

CABLE INFORMATION

Cable #:	Cable(s) of this type:
Cable Type: Shielded	Shield Type: Foil with drain wire
Construction: Multiconductor	Length In Meters: Up to 152
Connected To End (1): Reader	Connected To End (2): DC supply & Controller
Connector At End (1): None	Connector At End (2): None
Shield Grounded At (1): Shield Ground	Shield Grounded At (2): NC
Part Number:	Number of Conductors: 6
Notes:	

APPENDIX B
MEASUREMENT DATA SHEETS

Test Location: CKC Laboratories, Inc. • 5473A Clouds Rest Rd, Barn • Mariposa, CA 95338 • (800)-500-4EMC

Customer: **HID Corporation**
 Specification: **FCC 15 C PARA 15.209**
 Test Type: **H-Field**
 Equipment: **Proximity Reader**
 Manufacturer: **HID CORPORATION**
 Model: **6005-8A**
 S/N: **N/A**

Date: **Apr-06-98**
 Time: **15:40**
 Sequence#: **11**
 Tested By: **Dustin Oaks**

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Proximity Reader*	HID CORPORATION	6005-8A	N/A

Support Devices:

Function	Manufacturer	Model #	S/N
DC Power Supply	HP	6205C	2228A-01775

Test Conditions / Notes:

EUT operating on 12VDC via DC power supply. EUT operating IAW manufactures specifications.

Measurement Data:

Sorted by Margin

Test Distance: 3 Meters

#	Freq	Rdng dB μ V	MAGL		Dist dB	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar	
			Barn dB	O dB						
1	125.418k	75.9	+10.8	+0.1	+0.0	86.8	0.0	+86.8	None	
3 Meter reading										
2	125.405k	48.7	+10.8	+0.1	+0.0	59.6	0.0	+59.6	None	
10 meter point										
3	125.364k	30.5	+10.8	+0.1	+0.0	41.4	0.0	+41.4	None	
30 Meter reading (Grass Level, NO signal found)										

Test Location: CKC Laboratories, Inc. • 5473A Clouds Rest Rd, Barn • Mariposa, CA 95338 • (800)-500-4EMC

Customer: **HID Corporation**
 Specification: **FCC 15 C PARA 15.209**
 Test Type: **Maximized Emissions**
 Equipment: **Proximity Reader**
 Manufacturer: **HID**
 Model: **6005-8A**
 S/N: **N/A**

Date: Apr-06-98
 Time: 15:13
 Sequence#: 9
 Tested By: Dustin Oaks

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Proximity Reader*	HID	6005-8A	N/A

Support Devices:

Function	Manufacturer	Model #	S/N
DC Power Supply	HP	6205C	2228A-01775

Test Conditions / Notes:

EUT operating on 12VDC via DC power supply. EUT operating IAW manufactures specifications. This is a frequency spec NOT a Magnitude spec.

Measurement Data:

Sorted by Margin

Test Distance: 10 Meters

#	Freq	Rdng dB μ V	dB	dB	dB	dB	Dist dB	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	250.900k	24.2	+11.0	+0.0			+0.0	35.2	45.6	-10.4	None
	30 Meters										
2	376.500k	20.5	+11.2	+0.0			+0.0	31.7	45.6	-13.9	None
	30 Meters										
3	627.890k	18.8	+10.9	+0.1			-10.0	19.8	31.6	-11.8	None
4	502.180k	17.2	+11.0	+0.1			-10.0	18.3	33.6	-15.3	None
5	879.090k	12.1	+10.8	+0.1			-10.0	13.0	28.7	-15.7	None
6	753.490k	9.3	+10.8	+0.1			-10.0	10.2	30.0	-19.8	None

Customer: HID Page 1
 Work Order#: _____
 Specification: FCC 15.207 Date: Thu Sep-03-1998
 Test Type: Conducted Emissions Time: 11:32:54
 Conducted By: Dustin Oaks Sequence # 1
 Equipment: Proximity Reader
 Manufacturer: HID S/N: N/A
 Model#: 6005-8A

Equipment Under Test (* = EUT)

Function	Manufacturer	Model#	S/N
*Proximity Reader	HID	6005-8A	N/A
DC Power Supply	HP	6205C	2228A-01775

Support Devices

Function	Manufacturer	Model#	S/N
None			

Test Conditions

EUT operating on 12VDC via DC power supply. EUT operating
IAW manufactures specifications. HP power supply connected
to LISN.

Test Lead: Black Readings listed by margin.

#	Freq	Rdng dB μ V	Corr dB μ V	Spec	Margin	Polar
1	480.332k	37.9	37.9	48.0	-10.1	Black
2	461.374k	37.8	37.8	48.0	-10.2	Black
3	454.550k	37.4	37.4	48.0	-10.6	Black
4	471.991k	37.0	37.0	48.0	-11.0	Black
5	478.057k	36.8	36.8	48.0	-11.2	Black
6	521.280k	36.7	36.7	48.0	-11.3	Black
7	487.915k	36.7	36.7	48.0	-11.3	Black
8	500.047k	36.6	36.6	48.0	-11.4	Black
9	550.853k	36.5	36.5	48.0	-11.5	Black
10	528.104k	36.4	36.4	48.0	-11.6	Black
11	591.043k	36.2	36.2	48.0	-11.8	Black
12	638.057k	35.8	35.8	48.0	-12.2	Black
13	558.436k	35.8	35.8	48.0	-12.2	Black

CKC Laboratories, Inc.

5473A Clouds Rest Rd, Barn
Mariposa, CA 95338
(800)-500-4EMC

Customer: HID

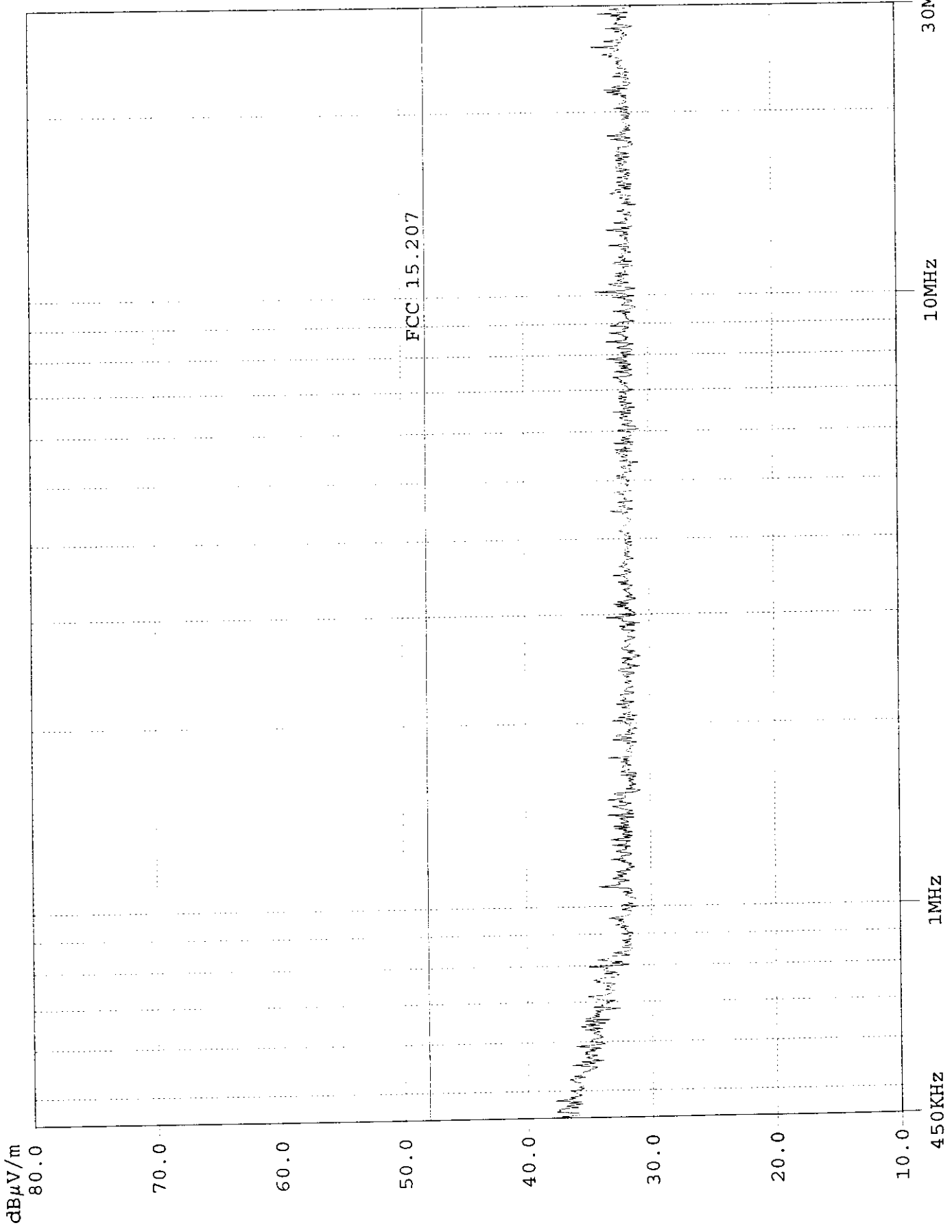
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Specification: FCC 15.207
Test Type: Conducted Emissions
Conducted By: Dustin Oaks

Date: Thu Sep-03-1998
Time: 11:32:54
Sequence #: 1

#	Freq	Rdng dB μ V	Corr dB μ V	Spec	Margin	Polar
14	650.948k	35.5	35.5	48.0	-12.5	Black
15	643.365k	35.5	35.5	48.0	-12.5	Black
16	630.474k	35.5	35.5	48.0	-12.5	Black
17	574.360k	35.5	35.5	48.0	-12.5	Black
18	657.014k	35.4	35.4	48.0	-12.6	Black
19	567.536k	35.4	35.4	48.0	-12.6	Black
20	713.128k	35.2	35.2	48.0	-12.8	Black

CKC Laboratories, Inc. Date: Thu Sep-03-1998 Time: 11:32:54 WO#: FCC 15.207 Test Lead: Black Sequence#: 1



Customer: HID Page 1
 Work Order#: _____
 Specification: FCC 15.207 Date: Thu Sep-03-1998
 Test Type: Conducted Emissions Time: 11:34:12
 Conducted By: Dustin Oaks Sequence # 2
 Equipment: Proximity Reader
 Manufacturer: HID S/N: N/A
 Model#: 6005-8A

Equipment Under Test (* = EUT)

Function	Manufacturer	Model#	S/N
*Proximity Reader	HID	6005-8A	N/A
DC Power Supply	HP	6205C	2228A-01775

Support Devices

Function	Manufacturer	Model#	S/N
None			

Test Conditions
EUT operating on 12VDC via DC power supply. EUT operating
IAW manufactures specifications. HP power supply connected
to LISN.

Test Lead: White Readings listed by margin.

#	Freq	Rdng dB μ V	Corr dB μ V	Spec	Margin	Polar
1	452.275k	37.2	37.2	48.0	-10.8	White
2	461.374k	36.6	36.6	48.0	-11.4	White
3	499.289k	36.3	36.3	48.0	-11.7	White
4	486.019k	36.3	36.3	48.0	-11.7	White
5	469.716k	36.2	36.2	48.0	-11.8	White
6	563.365k	36.1	36.1	48.0	-11.9	White
7	543.270k	36.0	36.0	48.0	-12.0	White
8	536.446k	36.0	36.0	48.0	-12.0	White
9	15.656M	35.9	35.9	48.0	-12.1	White
10	521.280k	35.9	35.9	48.0	-12.1	White
11	474.265k	35.9	35.9	48.0	-12.1	White
12	508.389k	35.5	35.5	48.0	-12.5	White
13	530.379k	35.4	35.4	48.0	-12.6	White

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Specification: FCC 15.207

Date: Thu Sep-03-1998

Test Type: Conducted Emissions

Time: 11:34:12

Conducted By: Dustin Oaks

Sequence # 2

#	Freq	Rdng dB μ V	Corr dB μ V	Spec	Margin	Polar
14	610.758k	35.1	35.1	48.0	-12.9	White
15	575.119k	35.0	35.0	48.0	-13.0	White
16	581.943k	34.7	34.7	48.0	-13.3	White
17	603.934k	34.6	34.6	48.0	-13.4	White
18	588.010k	34.6	34.6	48.0	-13.4	White
19	636.161k	34.5	34.5	48.0	-13.5	White
20	595.593k	34.5	34.5	48.0	-13.5	White

CKC Laboratories, Inc. Date: Thu Sep-03-1998 Time: 11:34:12 WO#: FCC 15.207 Test Lead: White Sequence#: 2

