November 8, 1999

North American Technical Services
30 Northport Road
Sound Beach, NY 11789

Attention: Mr. Richard Lanzillotto

Dear Sir:

Enclosed you will find a hard copy of Retlif Test Report R-8263-1 (report of measurements) for your electronic filing which covers the Part 15, Subpart C Certification testing of the Knogo North America, 8 MHz Electronic Article Surveillance System, Model P-2000. Also enclosed you find the Conducted Emissions and the Occupied Bandwidth Data that you will need to scan. I will electronically send you the Test Report, Radiated Emissions and the Test Equipment Lists. This testing was performed in accordance with your Purchase Order Number 1099.

Thank you for the opportunity to be of service to you. Should you have any questions regarding the enclosed application please feel free to contact me.

Very truly yours,

RETLIF TEST1NG LABORATORIES

Michelle Tirado
Administrative Coordinator

Enc. (as stated)

EXHIBIT 4

Report of Measurements

Para. 2.1033(b)(6)

REPORT No. R-8263-1

APPLICANT	MANUFACTURER
Knogo North America 350 Wireless Boulevard Hauppauge, NY 11788	Same

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: Knogo North America MODEL: P-2000

TYPE: Swept RF Transmitter

POWER REQUIREMENTS: 18VAC (derived from 115VAC Transformer)

FREQUENCY OF OPERATION: 7.45 MHz to 8.95 MHz

TESTS PERFORMED

Para. 15.207(a)	Conducted Emissions
Para. 15.209(a)	Radiated Emissions, Spurious
Para. 15.223(a)	Radiated Emissions, Fundamental
	Occupied Bandwidth

REPORT OF MEASUREMENTS

Applicant:	Knogo North America
Device:	8 MHz Swept RF, Electronic Article Surveillance System
FCC ID:	
Power Requirements:	18 VAC derived from a 115 VAC Transformer
Applicable Rule Section:	Part 15, Subpart C, Section 15.223

TEST RESULTS

15.223(a) - The field strength of any emissions within the band of 1.705MHz to 10.0MHz did not exceed 100µV/M (10,000µV/M) at 30 meters (3 meters), average. The 6 dB Bandwidth of the device was found to be greater than 10% of the center frequency.

15.223(b) - The field strength of any emissions outside the 1.705 to 10 MHz band did not exceed the general radiated emissions limits of section 15.209. All signals within 10 dB of the limit at 3 meters are reported herein.

Notes:

Since the device operates over a range greater than 1 MHz, all testing was performed with the Swept RF Output stopped at a low and high frequency (7.52 MHz and 8.89 MHz respectively).

Exhibit 4

Report of Measurements

15.207(a) Conducted Emissions Data

Customer:	NATS (Knogo North America)
Test Sample:	Electronic Article Surveillance System
Model No.:	P-2000
Test Method:	FCC 15.207 Conducted Emissions
Notes:	Lead Tested: Hot Detector Function: Peak

Date: October 15,1999 Tech: Dennis Cortes Sheet 1 of 6

Retlif Testing Laboratories

Report No. R-8263-1

R-8263-1 P2000 FCC15.207 CE DC 10/15/99 LEAD-NEUTRAL

REF 85.0 dBµV ATTEN 10 dB

10 dB/

OFFSET 10.0 dB

DL 48.0 dBµV

START 450 kHz

RES BW 10 kHz VBW 30 kHz STOP 1.70 MHz

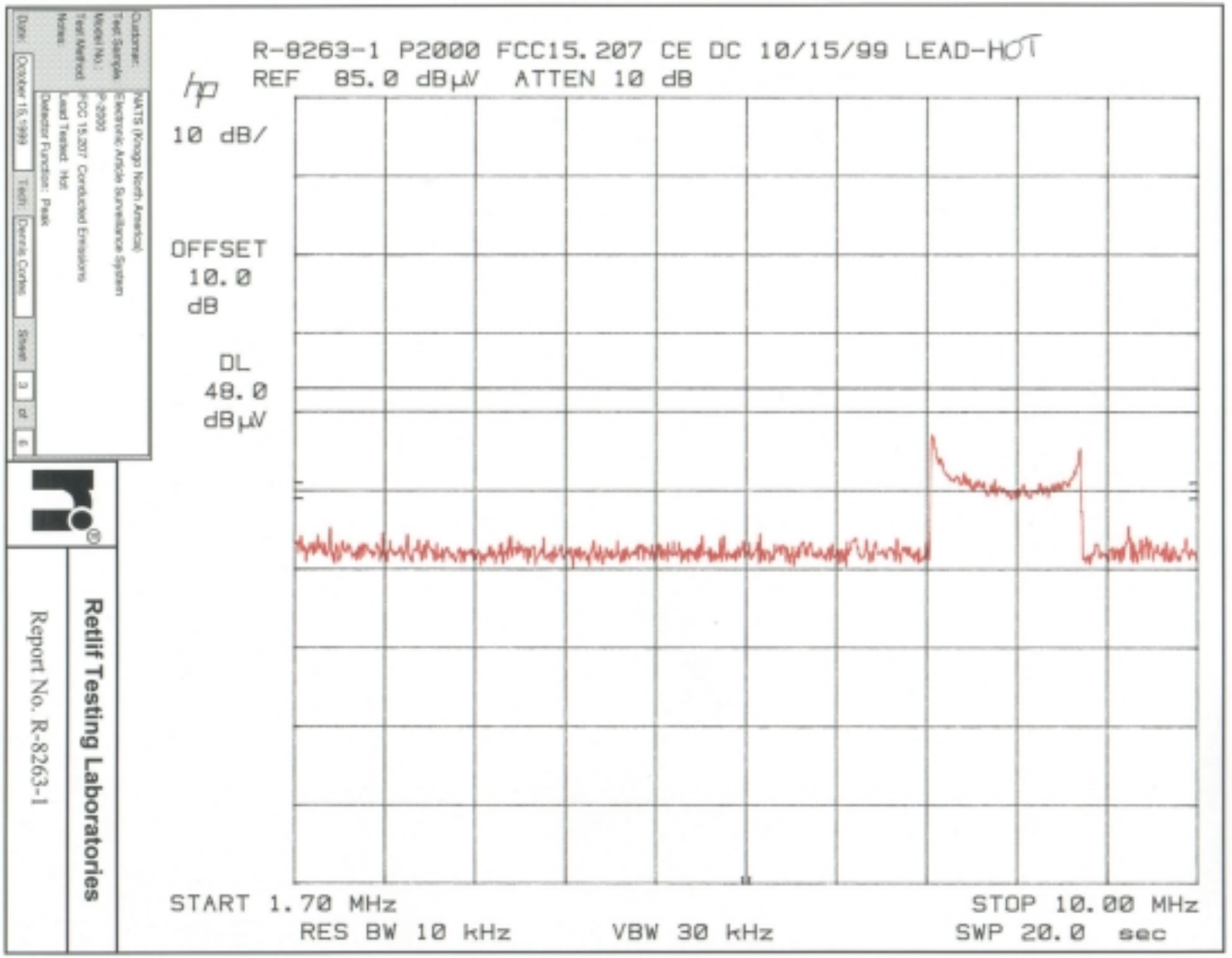
SWP 20.0 sec

Customer:	NATS (Kyogo North Area(s))
Test Sample:	Electronic Article Surveillance System
Model No.:	P-2000
Test Method:	FCC 15.207 Conducted Emissions
Note:	Lead Tested: Neutral
	Detector Function: Peak

Date:	October 15,1999	Tech:	Dennis Cortes	Sheet	2	of	6

Retlif Testing Laboratories

Report No. R-8263-1


R-8263-1 P2000 FCC15.207 CE DC 10/15/99 LEAD-HOT
REF 85.0 dBµV ATTEN 10 dB
10 dB/
OFFSET
10.0
dB
DL
48.0
dBµV
START 1.70 MHz
STOP 10.00 MHz
RES BW 10 kHz
VBW 30 kHz
SWP 20.0 sec
Customer: NATS (Nicap North America)
Test Sample: Electronic Article Surveillance System
Model No.: P-2000
Test Method: FCC 15.207 Conducted Emissions
Notes: Lead Tested: Hot
Detector Function: Peak
Date: October 15,1999
Tech: Dennis Corbin
Sheet 2 of 6
Retlif Testing Laboratories
Report No. R-8263-1

Customer:	NATS (Chicago North America)
Test Sample:	Electronic Article Surveillance System
Model No.:	P-2000
Test Method:	FCC 15.207 Conducted Emissions
Notes:	Lead Tested Neutral
	Detector Function: Peak
Date:	October 15,1999 Tech: Dennis Cortes Sheet 4 of 6

Rettif Testing Laboratories

Report No. R-8263-1

R-8263-1 P2000 FCC15.207 CE DC 10/15/99 LEAD- HOT

REF 85.0 dBµV ATTEN 10 dB

10 dB/

OFFSET 10.0 dB

DL 48.0 dBµV

START 10.0 MHz

RES BW 10 kHz VBW 30 kHz STOP 30.0 MHz

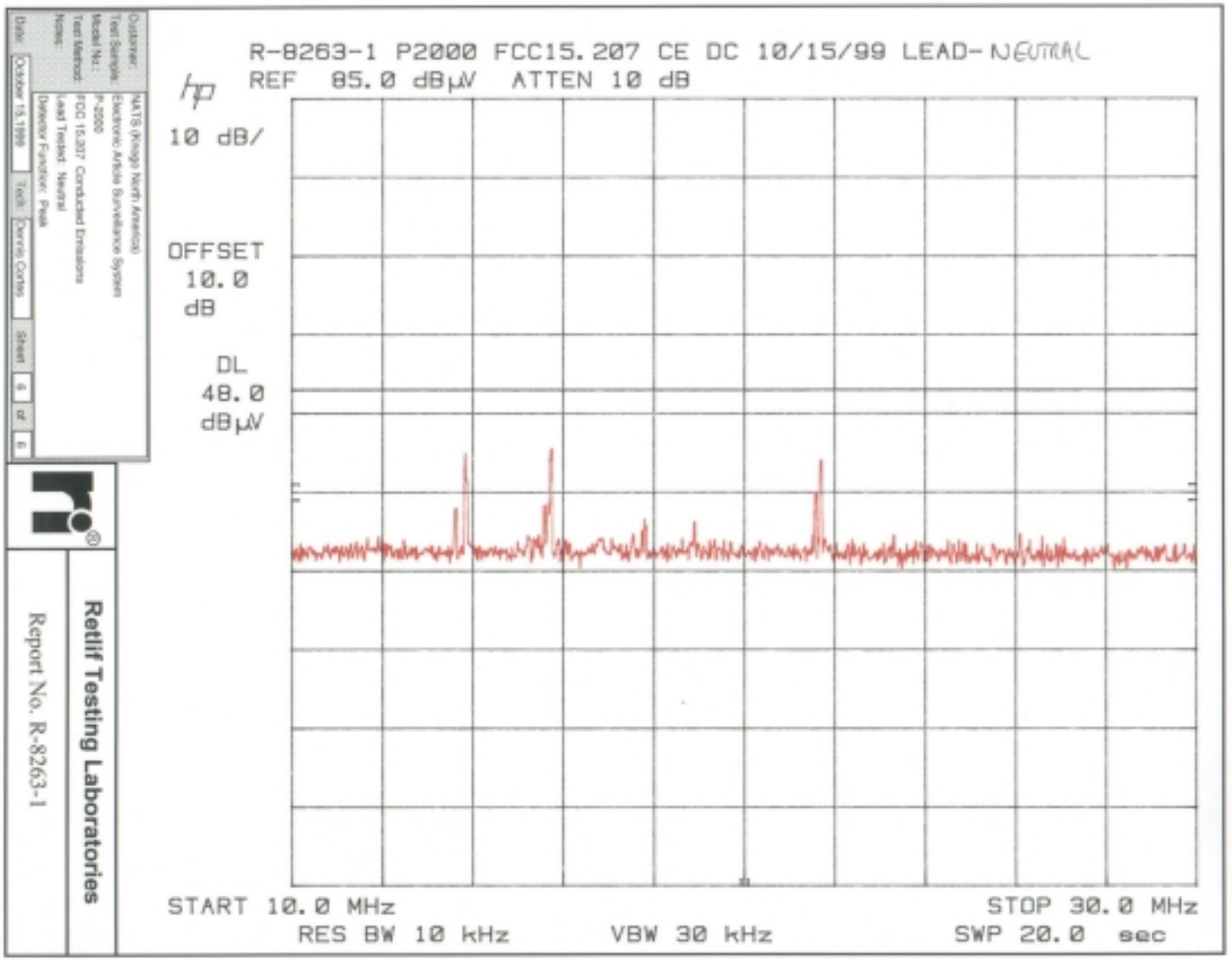
SWP 20.0 sec

Customer: NATS (Kongo North Arenna)
Test Sample: Electronic Article Surveillance System
Model No.: P-2000
Test Method: FCC 15.207 Conducted Emissions
Notes: Lead Tested: Hot
Detector Function: Peak

Date: October 15,1999 Tech: Dennis Cortes Sheet 5 of 6

Report No. R-8263-1

Retlif Testing Laboratories


R-8263-1 P2000 FCC15.207 CE DC 10/15/99 LEAD- NEUTRAL
REF 85.0 dBµV ATTEN 10 dB
10 dB/
OFFSET
10.0
dB
DL
48.0
dBµV
START 10.0 MHz
RES BW 10 kHz
VBW 30 kHz
STOP 30.0 MHz
SWP 20.0 sec
Customer: MATS (Kresge North America)
Test Sample: Electronic Airfield Surveillance System
Model No.: P-2000
Test Method: FCC 15.207 Conducted Emissions
Notes: Lead Tested: Neutral
Detector Function: Peak
Date: October 15,1999
Tech: Dennis Cortes
Sheet: 6 of 6
Retlif Testing Laboratories
Report No. R-8263-1

REPORT No. R-8263-1

Exhibit 4

Report of Measurements

15.209(a), 15.223 Radiated Emissions Data

Test Method:	FCC Part 15 Radiated Emissions, 9Khz to 30 Mhz paragraph 15.223		
Customer:	NATS (Knogo North America)	**Job No.**	R-8263-1
Test Sample:	Electronic Article Surveillance		
Model No.:	P-2000	**Serial**	N/A
Operating	EUT continuously transmitting a signal at frequency specified below		
Technician:	Dennis Cortes	**Date:**	September 13, 1999

Notes: Test Distance: 10 Meters Temp:18C Humidity:25%
Detector: Peak All readings were extrapolated

Test Freq.	Antenna Pol./Rotation	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	30 Meter Equiv.	Converted Reading	Limit
Mhz	(V/H)/degr	Degrees	dBuv	dB			uV/m	
	EUT continuously transmitting a 7.52 Mhz signal							
7.52	V-158	315	40.3	10.5	50.8	31.7	38.5	100
	EUT continuously transmitting a 8.89 Mhz signal							
8.89	V-158	315	39.3	10.5	49.8	30.7	34.2	100
	The EUT was scanned from 9Khz to 30 Mhz							
	The emissions observed from the EUT do not exceed the specified limits.							
	were more than 10dB under the specified limit							

Test Method:	FCC Part 15 Radiated Emissions, 30 Mhz to 1 Ghz paragraph 15.223		
Customer:	NATS (Knogo North America)	**Job No.**	R-8263-1
Test Sample:	Electronic Article Surveillance		
Model No.:	P-2000	**Serial**	N/A
Operating	EUT continuously transmitting a signal at frequency specified below		
Technician:	Dennis Cortes	**Date:**	September 13, 1999

Notes: Test Distance: 3 Meters Temp:18C Humidity:25%
Detector: Quasi-Peak.

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
Mhz	(V/H)/	Degrees	dBuv	dB	dBuv/m	uV/m	uV/m
	EUT continuously transmitting a 7.52Mhz signal						
37.6	V-1.0	338	44.0	-5.5	38.5	84.1	100
45.1	V-1.0	338	28.0	-8.3	19.7	9.7	100
	EUT continuously transmitting a 8.89Mhz signal						
35.6	V-1.0	135	42.1	-4.5	37.6	75.9	100
44.4	V-1.0	338	47.6	-8.5	39.1	90.2	100
53.3	V-1.0	338	34.0	-10.8	23.2	14.5	100
62.2	V-1.0	338	39.0	-12.4	26.6	21.4	100
	The EUT was scanned from 30 Mhz to 1 Ghz						
	The emissions observed from the EUT do not exceed the specified limits.						
	were more than 10dB under the specified limit						

Test Method:	FCC Part 15 Radiated Emissions, 9 Khz to 1 Ghz paragraph 15.209		
Customer:	NATS (Knogo North America)	**Job No.**	R-8263-1
Test Sample:	Electronic Article Surveillance		
Model No.:	P-2000	**Serial**	N/A
Operating	EUT continuously transmitting a sweeping signal from 7.52 Mhz to		
Technician:	Dennis Cortes	**Date:**	October 15,1999

Notes: Test Distance: 3 Meters Temp: 18C Humidity: 25%
Detector: Quasi-Peak

Test Freq.	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
Mhz	V/H-	Degrees	dBuv	dB	dBuv/m	uv/m	uV/m
.009							266.7
|							|
V							|
.490							4.89
.490							48.9
|							|
V							|
1.705							14.1
1.705							30
|							|
V							|
30.0							30
30.0							100
|							|
V							|
88.0							100
88.0							150
|							|
V							|
216.0							150
216.0							200
|							|
246.2	V-1.5	203	33.9	-6.9	27.0	22.4	|
328.7	V-1.0	248	36.0	-4.2	31.8	38.9	|
414.0	V-1.0	203	33.8	-1.8	32.0	39.8	|
543.8	V-1.0	203	34.4	1.4	35.8	61.7	|
653.8	V-1.3	135	33.1	3.7	36.8	69.2	|
|							|
960.0							200
960.0							500
|							|
1000.0							500

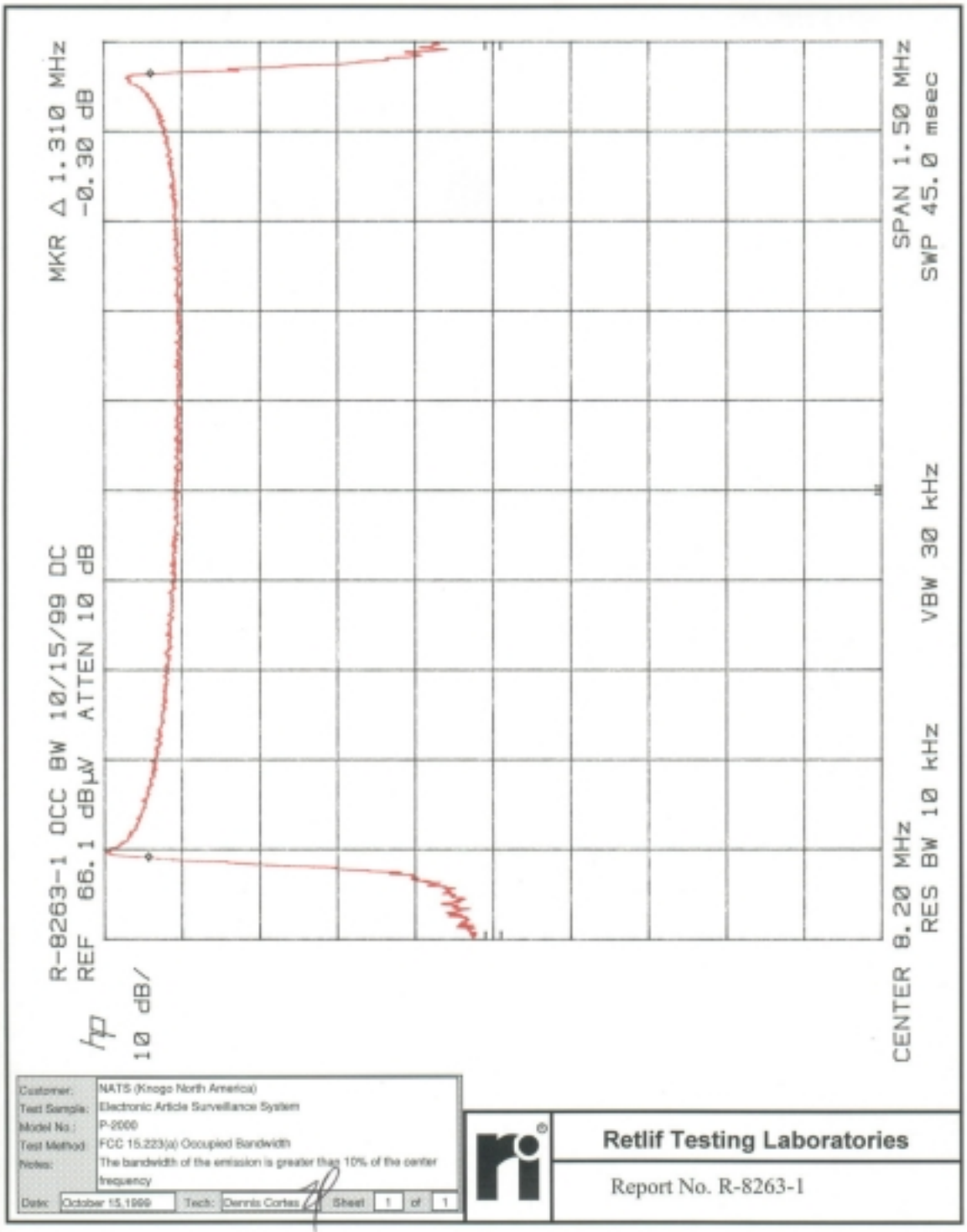
The EUT was scanned from 9 Khz to 1 Ghz
The emissions observed from the EUT do not exceed the specified limits.
were more than 10dB under the specified limit

REPORT No. R-8263-1

Exhibit 4

Report of Measurements

Occupied Bandwidth Data



Customer:	NATS (Knogo North America)
Test Sample:	Electronic Article Surveillance System
Model No.:	P-2000
Test Method:	FCC 15.223(a) Occupied Bandwidth
Notes:	The bandwidth of the emission is greater than 10% of the center frequency
Date: October 15,1999	Tech: Dennis Cortes Sheet 1 of 1

Retlif Testing Laboratories

Report No. R-8263-1

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TEST EQUIPMENT LIST

EQUIPMENT LIST

FCC 15.207 Conducted Emissions

EN	Type	Manufacturer	Frequency Range	Model No.	Cal Date	Due Date
078	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	5/11/99	5/11/00
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	9/20/99	3/20/00
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	3/5/99	3/5/00
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	9/20/99	3/20/00
202	Transient Limiter	Hewlett Packard	.009 MHz - 200 MHz	11947A	7/19/99	7/19/00
513	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	11/2/98	11/2/99

FCC Part 15 Radiated Emissions, 9 kHz to 1 GHz Paragraph 15.209

EN	Type	Manufacturer	Frequency Range	Model No.	Cal Date	Due Date
012	Loop Antenna, Active	EMCO	9 kHz - 30 MHz	6502	10/4/99	10/4/00
067	Open Area Test Site	Retlif	3 Meter	RNY	9/1/99	11/1/99
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/22/99	6/22/00
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	9/20/99	3/20/00
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	3/5/99	3/5/00
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	9/20/99	3/20/00
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/22/99	6/22/00
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	10/22/98	4/22/00