

Retlif Testing Laboratories

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FCC COMPLIANCE TEST REPORT
ON
DETECTION SYSTEMS, INC.
304 MHz PULSED RF
SECURITY/ALARM TRANSMITTER
MODEL: RF3334/RF3332
FCC ID: ESV-0407-2

CUSTOMER NAME: _____ Detection Systems _____

CUSTOMER P.O.: _____ 104421SKI _____

DATE OF REPORT: _____ July 15, 1998 _____

TEST REPORT NO.: _____ R-7612-1 _____

TEST START DATE: _____ June 25, 1998 _____

TEST FINISH DATE: _____ July 1, 1998 _____

TEST TECHNICIAN: _____ D. Cortes _____

TEST ENGINEER: _____ T. Schneider _____

SUPERVISOR: _____ R.J. Reitz _____

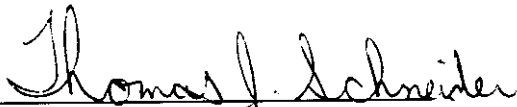
REPORT PREPARED BY: _____ L. Anderson _____

GOVERNMENT SOURCE INSPECTION: _____ Not Applicable _____

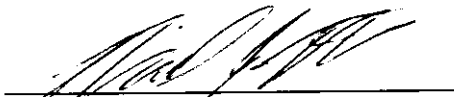
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CERTIFICATION AND SIGNATURES

We certify that this report is a true report of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



Thomas J. Schneider
EMC Test Engineer
NVLAP Approved Signatory



Richard J. Reitz
Laboratory Manager
NVLAP Approved Signatory

NON-WARRANTY PROVISION

The testing services have been performed, findings obtained, and reports prepared in accordance with generally accepted testing laboratory principles and practices. This warranty is in lieu of all other warranties, either express or implied.

NON-ENDORSEMENT

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation endorsement, or certification of the product or material tested. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



Retlif Testing Laboratories

Test Report No. R-7612-1
FCC ID: ESV-0407-2

TABLE OF EXHIBITS

Exhibit 1	Equipment Label per 2.1033(b)(7)
Exhibit 2	Equipment Photographs per 2.1033(b)(7)
Exhibit 3	Technical Description per 2.1033(b)(4)
Exhibit 4	Block Diagram and Schematics per 2.1033(b)(5)
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Exhibit 6	Report of Measurements - per 2.1033(b)(6)



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EXHIBIT 2

Equipment Photographs

Para. 2.1033(b)(7)



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EXHIBIT 6

Report of Measurements

Para. 2.1033(b)(6)



Retlif Testing Laboratories

Test Report No. R-7612-1
FCC ID: ESV-0407-2

APPLICANT

Detection Systems
130 Perinton Parkway
Fairport, NY 14450

MANUFACTURER

SAME

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Para. 15.231

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: Detection Systems MODEL: RF3334/RF3332

TYPE: Pulsed RF Security/Alarm Transmitter

POWER REQUIREMENTS: Two (2) Duracell DL2025 Batteries

FREQUENCY OF OPERATION: 304 MHz

TESTS PERFORMED

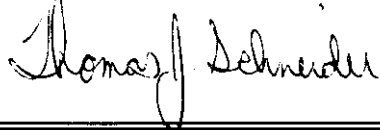
Para. 15.231(a), Radiated Emissions, Fundamental & Spurious

Para. 15.231(c), Occupied Bandwidth

Duty Cycle Determination

I HEREBY CERTIFY THAT: The measurements shown here were in accordance with the procedure indicated and that the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER CERTIFY THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of Part 15 of the FCC Rules under normal use and maintenance.

SIGN**PRINT**

Thomas J. Schneider

TITLE

EMC Test Engineer

**Retlif Testing Laboratories**

Test Report No. R-7612-1
FCC ID: ESV-0407-2

REPORT OF MEASUREMENTS

Applicant: Detection Systems
Device: 304 MHz Security Transmitter
FCC ID: ESV-0407-2
Power Requirements: Two (2) Duracell DL2025 Batteries
Applicable Rule Section: Part 15, Subpart C, Section 15.231

TEST RESULTS

- 15.231 (a) - The device is a Remote/Control Security Transmitter designed to transmit arm, disarm signals and other signals to control devices within a residential security system.
- 15.231 (a)(1) - The transmitter is manually activated by pressing either the “arm”, “disarm” or “panic” buttons.
- 15.231 (a)(3) - The unit does not perform periodic transmissions for system integrity and status purposes since it is manually activated.
- 15.231 (a)(4) - The device is used for Security purposes for remote control and the arming and disarming of home security systems.
- 15.231 (b) - The fundamental field strength did not exceed $5580 \mu\text{V/M}$ (Average) at a test distance of 3 meters. In addition, the requirements of section 15.35 for averaging pulsed emissions and for limiting peak emissions were met.
- The field strength of harmonic and spurious emissions did not exceed $558 \mu\text{V/M}$ (AVERAGE).
- 15.231 (c) - The device operates at 304 MHz. The bandwidth of emissions did not exceed 0.25% of the operating frequency (760 kHz).



Retlif Testing Laboratories

Test Report No. R-7612-1
FCC ID: ESV-0407-2

REPORT OF MEASUREMENTS (continued)

DETERMINATION OF FIELD STRENGTH LIMITS

The field strength limits shown below are found in Section 15.231.

<u>Frequency</u>			<u>Limit</u>		
F1	=	260	3750	=	L1
Fo	=	304			Lo
F2	=	470	12500	=	L2

The formula below was utilized to determine the limits:

$$\text{Limit} = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]$$

Solving yields:

$$\text{Fundamental Limit} = 5580 \mu\text{V/M (AVERAGE) @ 3 Meters}$$

$$\text{Harmonic Limit} = 558 \mu\text{V/M (AVERAGE) @ 3 Meters}$$

DETERMINATION OF DUTY CYCLE AS PER DETECTION SYSTEMS:

Each packet contains 76 data bits and the packet transmission time with a 5 kHz data rate is 15.2 milliseconds. The 50% duty cycle Manchester Coding of the transmission ensures a 50%on-air time for every packet which is 7.6 milliseconds. The minimum quiet time between packets is 100 milliseconds.

$$\text{Packet Time} = 15.2 \text{ milliseconds}$$

$$\text{Quiet Time Between Packets} = 100 \text{ milliseconds}$$

$$\text{ON-AIR Time} = (\text{Packet Time}) \times 50\% = 7.6 \text{ milliseconds, in } 115.2 \text{ milliseconds}$$

$$\text{Factor} = 20 \text{ LOG}(\text{ON-AIR time}/100 \text{ milliseconds}) = 20 \text{ LOG}(0.076) = -22.38\text{dB}$$



Retlif Testing Laboratories

Test Report No. R-7612-1
FCC ID: ESV-0407-2

REPORT OF MEASUREMENTS (continued)

SPECTRUM ANALYZER DESENSITIZATION CONSIDERATIONS

Due to the nature of the emissions being measured, care was taken to ensure that the resolution bandwidth of the spectrum analyzer was adequate to provide accurate measurements. The following formula was utilized:

$$\text{Pulse Desensitization} = 20 \text{ Log (PW * BW * 1.5)}$$

Setting pulse desensitization equal to zero and utilizing the minimum observed pulse width of 100 microseconds yields a minimum required bandwidth of 6666.7 Hz. FCC specified bandwidths of 100kHz and 1MHz were utilized below and above 1GHz, respectively.

GENERAL NOTES:

1. All readings were taken utilizing a peak detector function at a test distance of 3 meters.
2. The duty cycle was applied to the peak readings in order to determine the average value of the emissions.
3. All measurements were made with two (2) new Duracell DL2025 Batteries.
4. The frequency was scanned from 30 MHz to 3.1 GHz. All emissions not reported were more than 20 dB below the specified limit.



Retlif Testing Laboratories

Test Report No. R-7612-1
FCC ID: ESV-0407-2

Exhibit 6

Report of Measurements

Radiated Emissions Data, Para. 15.231(b)



Retlif Testing Laboratories

Test Report No. R-7612-1
FCC ID: ESV-0407-2

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Detections Systems, Inc.	JOB No.:	R-7612-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID: ESV-0407-2		
MODEL No.:	RF3334/RF3332	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 304 Mhz Signal		
TECHNICIAN:	T. Schneider	DATE:	July 1, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak		

Test Frequency	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(H/V) / meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
304	H/1.4	X	85.2	-4.3	80.9	11091.7	55800
304	H/1.4	Y	85.1	-4.3	80.8	10964.8	55800
304	H/1.0	Z	88.9	-4.3	84.6	16982.4	55800
304	V/1.3	X	73.9	-4.3	69.6	3020.0	55800
304	V/1.3	Y	76.8	-4.3	72.5	4217.0	55800
304	V/1.3	Z	75.5	-4.3	71.2	3630.8	55800
608	H/1.3	X	38.6	2.4	41.0	112.2	5000
608	H/1.1	Y	41.8	2.4	44.2	162.2	5000
608	H/1.0	Z	44.8	2.4	47.2	229.1	5000
608	V/1.2	X	42.8	2.4	45.2	182.0	5000
608	V/1.7	Y	38.9	2.4	41.3	116.1	5000
608	V/1.4	Z	39.7	2.4	42.1	127.4	5000
912	H/1.0	X	33.4	8.3	41.7	121.6	5580
912	H/1.1	Y	40.5	8.3	48.8	275.4	5580
912	H/1.2	Z	35.7	8.3	44.0	158.5	5580
912	V/1.3	X	39.4	8.3	47.7	242.7	5580
912	V/1.0	Y	35.6	8.3	43.9	156.7	5580
912	V/1.0	Z	40.4	8.3	48.7	272.3	5580
1216	H/1.4	X	50.9	-6.3	44.6	169.8	5000
1216	H/1.3	Y	53.0	-6.3	46.7	216.3	5000
1216	H/1.5	Z	48.2	-6.3	41.9	124.5	5000
1216	V/1.3	X	52.4	-6.3	46.1	201.8	5000
1216	V/1.4	Y	52.3	-6.3	46.0	199.5	5000
1216	V/1.3	Z	51.5	-6.3	45.2	182.0	5000
1520	H/1.3	X	48.9	-4.8	44.1	160.3	5000
1520	H/1.2	Y	40.5**	-4.8	35.7	61.0**	5000
1520	H/1.4	Z	40.5**	-4.8	35.7	61.0**	5000
1520	V/1.2	X	47.8	-4.8	43.0	141.3	5000
1520	V/1.3	Y	50.4	-4.8	45.6	190.5	5000
1520	V/1.3	Z	40.5**	-4.8	35.7	61.0**	5000
The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not recorded were more than 20dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
**- Minimum system sensitivity measurement							

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Detections Systems, Inc.	JOB No.:	R-7612-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID: ESV-0407-2		
MODEL No.:	RF3334/RF3332	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 304 Mhz Signal		
TECHNICIAN:	T. Schneider <i>TS</i>	DATE:	July 1, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak		

Test Frequency	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(H/V) / meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
1824	H/1.3	X	52.2	-2.7	49.5	298.5	5580
1824	H/1.3	Y	45.9	-2.7	43.2	144.5	5580
1824	H/1.3	Z	47.1	-2.7	44.4	166.0	5580
1824	V/1.4	X	45.7	-2.7	43.0	141.3	5580
1824	V/1.5	Y	53.8	-2.7	51.1	358.9	5580
1824	V/1.4	Z	45.7	-2.7	43.0	141.3	5580
2128	H/1.3	X	53.4	-1.3	52.1	402.7	5580
2128	H/1.3	Y	51.3	-1.3	50.0	316.2	5580
2128	H/1.4	Z	48.0	-1.3	46.7	216.3	5580
2128	V/1.5	X	48.4	-1.3	47.1	226.5	5580
2128	V/1.6	Y	52.3	-1.3	51.0	354.8	5580
2128	V/1.3	Z	42.1**	-1.3	40.8	109.6**	5580
2432	H/1.0	X	46.9	-0.4	46.5	211.3	5580
2432	H/1.0	Y	42.5**	-0.4	42.1	127.4**	5580
2432	H/1.0	Z	42.5**	-0.4	42.1	127.4**	5580
2432	V/1.0	X	42.5**	-0.4	42.1	127.4**	5580
2432	V/1.0	Y	42.5**	-0.4	42.1	127.4**	5580
2432	V/1.0	Z	42.5**	-0.4	42.1	127.4**	5580
2736	H/1.0	X	42.8**	1.1	43.9	156.7**	5000
2736	H/1.0	Y	42.8**	1.1	43.9	156.7**	5000
2736	H/1.0	Z	42.8**	1.1	43.9	156.7**	5000
2736	V/1.0	X	42.8**	1.1	43.9	156.7**	5000
2736	V/1.0	Y	42.8**	1.1	43.9	156.7**	5000
2736	V/1.0	Z	42.8**	1.1	43.9	156.7**	5000
3040	H/1.0	X	43.9**	3.1	47.0	223.9**	5580
3040	H/1.0	Y	43.9**	3.1	47.0	223.9**	5580
3040	H/1.0	Z	43.9**	3.1	47.0	223.9**	5580
3040	V/1.0	X	43.9**	3.1	47.0	223.9**	5580
3040	V/1.0	Y	43.9**	3.1	47.0	223.9**	5580
3040	V/1.0	Z	43.9**	3.1	47.0	223.9**	5580
The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not recorded were more than 20dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
**-Minimum System Sensitivity							

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Detections Systems, Inc.	JOB No.:	R-7612-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID: ESV-0407-2		
MODEL No.:	RF3334/RF3332	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously transmitting 304 Mhz Signal		
TECHNICIAN:	T. Schneider	DATE:	July 1, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak Worst Case Duty Cycle: 7.6% (-22.4 dB Duty Cycle Correction Factor)		

Test Frequency	Antenna Pol./Height	EUT Orientation	Peak Corrected Reading	Duty Cycle Corr. Factor	Corrected Average	Converted Average	Average Limit
MHz	(H/V) / meters	X / Y / Z	dBuV/m	dB	dBuV/m	uV/m	uV/m
304	H/1.4	X	80.9	-22.4	58.5	841.4	5580
304	H/1.4	Y	80.8	-22.4	58.4	831.8	5580
304	H/1.0	Z	84.6	-22.4	62.2	1288.2	5580
304	V/1.3	X	69.6	-22.4	47.2	229.1	5580
304	V/1.3	Y	72.5	-22.4	50.1	319.9	5580
304	V/1.3	Z	71.2	-22.4	48.8	275.4	5580
608	H/1.3	X	41.0	-22.4	18.6	8.5	500
608	H/1.1	Y	44.2	-22.4	21.8	12.3	500
608	H/1.0	Z	47.2	-22.4	24.8	17.4	500
608	V/1.2	X	45.2	-22.4	22.8	13.8	500
608	V/1.7	Y	41.3	-22.4	18.9	8.8	500
608	V/1.4	Z	42.1	-22.4	19.7	9.7	500
912	H/1.0	X	41.7	-22.4	19.3	9.2	558
912	H/1.1	Y	48.8	-22.4	26.4	20.9	558
912	H/1.2	Z	44.0	-22.4	21.6	12.0	558
912	V/1.3	X	47.7	-22.4	25.3	18.4	558
912	V/1.0	Y	43.9	-22.4	21.5	11.9	558
912	V/1.0	Z	48.7	-22.4	26.3	20.7	558
1216	H/1.4	X	44.6	-22.4	22.2	12.9	500
1216	H/1.3	Y	46.7	-22.4	24.3	16.4	500
1216	H/1.5	Z	41.9	-22.4	19.5	9.4	500
1216	V/1.3	X	46.1	-22.4	23.7	15.3	500
1216	V/1.4	Y	46.0	-22.4	23.6	15.1	500
1216	V/1.3	Z	45.2	-22.4	22.8	13.8	500
1520	H/1.3	X	44.1	-22.4	21.7	12.2	500
1520	H/1.2	Y	35.7	-22.4	13.3	4.6	500
1520	H/1.4	Z	35.7	-22.4	13.3	4.6	500
1520	V/1.2	X	43.0	-22.4	20.6	10.7	500
1520	V/1.3	Y	45.6	-22.4	23.2	14.5	500
1520	V/1.3	Z	35.7	-22.4	13.3	4.6	500
The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not recorded were more than 20dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Detections Systems, Inc.	JOB No.:	R-7612-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID: ESV-0407-2		
MODEL No.:	RF3334/RF3332	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously transmitting 304 Mhz Signal		
TECHNICIAN:	T. Schneider	DATE:	July 1, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak Worst Case Duty Cycle: 7.6% (-22.4 dB Duty Cycle Correction Factor)		

Test Frequency	Antenna Pol./Height	EUT Orientation	Peak Corrected Reading	Duty Cycle Corr. Factor	Corrected Average	Converted Average	Average Limit
MHz	(H/V) / meters	X / Y / Z	dBuV/m	dB	dBuV/m	uV/m	uV/m
1824	H/1.3	X	49.5	-22.4	27.1	22.6	558
1824	H/1.3	Y	43.2	-22.4	20.8	11.0	558
1824	H/1.3	Z	44.4	-22.4	22.0	12.6	558
1824	V/1.4	X	43.0	-22.4	20.6	10.7	558
1824	V/1.5	Y	51.1	-22.4	28.7	27.2	558
1824	V/1.4	Z	43.0	-22.4	20.6	10.7	558
2128	H/1.3	X	52.1	-22.4	29.7	30.5	558
2128	H/1.3	Y	50.0	-22.4	27.6	24.0	558
2128	H/1.4	Z	46.7	-22.4	24.3	16.4	558
2128	V/1.5	X	47.1	-22.4	24.7	17.2	558
2128	V/1.6	Y	51.0	-22.4	28.6	26.9	558
2128	V/1.3	Z	40.8	-22.4	18.4	8.3	558
2432	H/1.0	X	46.5	-22.4	24.1	16.0	558
2432	H/1.0	Y	42.1	-22.4	19.7	9.7	558
2432	H/1.0	Z	42.1	-22.4	19.7	9.7	558
2432	V/1.0	X	42.1	-22.4	19.7	9.7	558
2432	V/1.0	Y	42.1	-22.4	19.7	9.7	558
2432	V/1.0	Z	42.1	-22.4	19.7	9.7	558
2736	H/1.0	X	43.9	-22.4	21.5	11.9	500
2736	H/1.0	Y	43.9	-22.4	21.5	11.9	500
2736	H/1.0	Z	43.9	-22.4	21.5	11.9	500
2736	V/1.0	X	43.9	-22.4	21.5	11.9	500
2736	V/1.0	Y	43.9	-22.4	21.5	11.9	500
2736	V/1.0	Z	43.9	-22.4	21.5	11.9	500
3040	H/1.0	X	47.0	-22.4	24.6	17.0	558
3040	H/1.0	Y	47.0	-22.4	24.6	17.0	558
3040	H/1.0	Z	47.0	-22.4	24.6	17.0	558
3040	V/1.0	X	47.0	-22.4	24.6	17.0	558
3040	V/1.0	Y	47.0	-22.4	24.6	17.0	558
3040	V/1.0	Z	47.0	-22.4	24.6	17.0	558
The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not recorded were more than 20dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							

EQUIPMENT LIST

FCC Part 15 Subpart C Radiated Emissions

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
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	6/22/98	6/22/99
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
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/22/98	6/22/99
523	Biconilog	Electro-Mechanics	26 MHz - 1100 MHz	3143	9/30/97	9/30/98
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	8/12/97	8/12/98



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Test Report No. R-7612-1

FCC ID: ESV-0407-2

Exhibit 6

Report of Measurements

Occupied Bandwidth, Para. 15.231(c)



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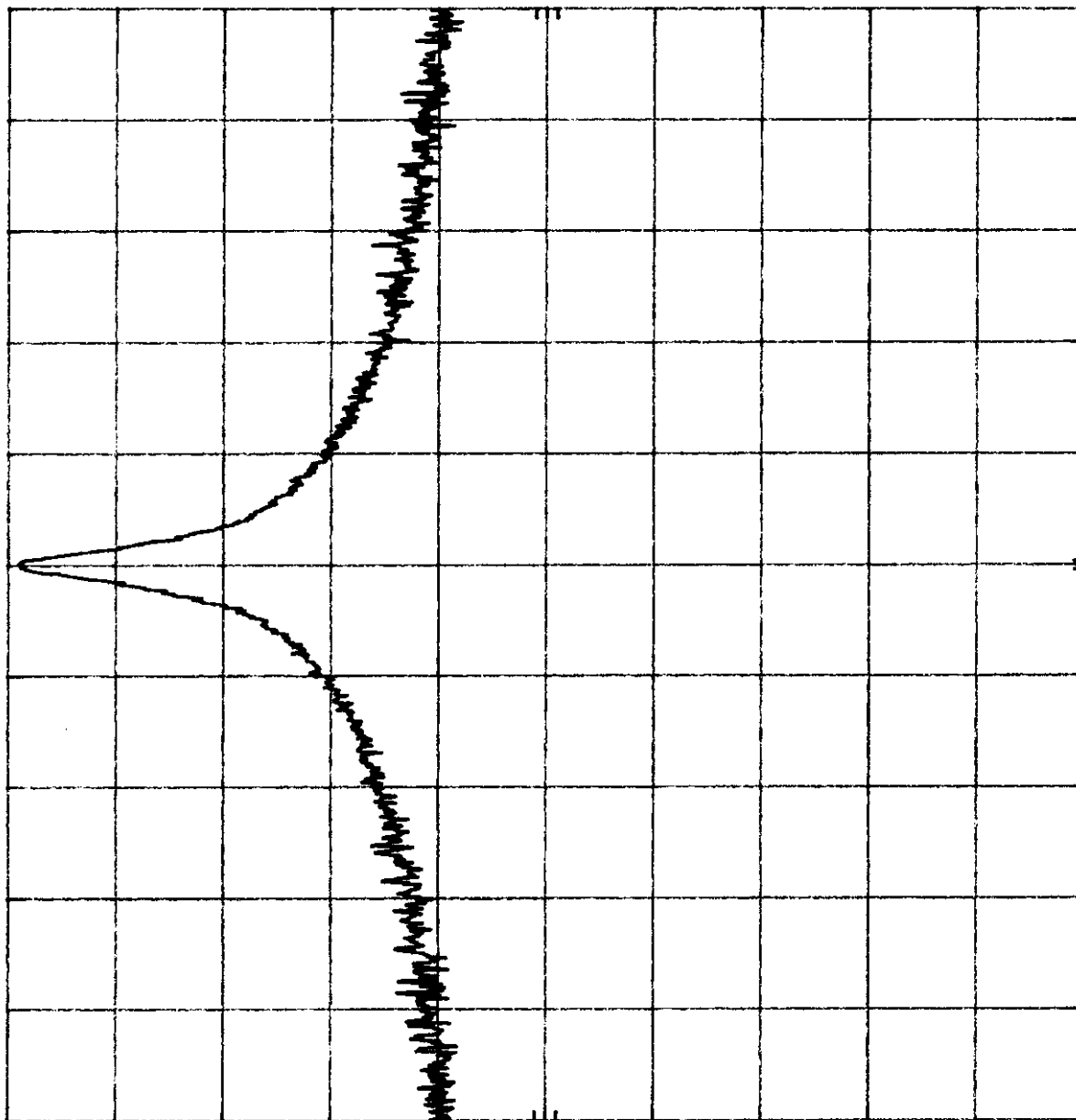
Test Report No. R-7612-1
FCC ID: ESV-0407-2

R-7612 RF3334/RF3332 Occupied Bandwidth TS 7/1/98

REF -49.1 dBm ATTEN 10 dB

hp

10 dB/



SPAN 760 kHz
SWP 30.0 msec

VBW 30 kHz

CENTER 304.012 MHz
RES BW 10 kHz

Customer:	Detection Systems
Test Sample:	304 MHz Pulsed RF Transmitter
Model No:	RF3334/RF3332, FCC ID: ESV-0407-2
Test Method:	Occupied Bandwidth
Notes:	Bandwidth does not exceed 0.25% of center frequency (760 kHz) as measured 20 dB down from modulated carrier
Date:	July 1, 1998
Tech:	T. Schneider
Sheet:	1 of 1



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Report No. R-7612-1