



Certelec Laboratories Inc.

Safety - EMI - Telecom - ISO Guide 25

ENGINEERING TEST REPORT

**ON:
THE DIGITAL SECURITY CONTROLS
"WLS-915 ALARM TRANSMITTER"**

FCC ID: F5398SS15

**IN ACCORDANCE WITH:
FCC PART 15, SUBPART C
DIRECT SEQUENCE TRANSMITTERS
902 - 928 MHz**

PROJECT NO.: 7DI160-54C

TESTED FOR:

DIGITAL SECURITY CONTROLS LTD.
1645 FLINT ROAD
DOWNSVIEW, ONTARIO M3J 2J6

TESTED BY:

CERTELECOM LABORATORIES INC.
3325 RIVER ROAD, R.R. 5
OTTAWA, ONTARIO K1V 1H2



NVLAP LAB CODE: 100351-0

JANUARY 1998

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This report applies only to the items tested.

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Table Of Contents

Section 1. Summary of Test Results

General
Summary of Test Data

Section 2. General Equipment Specification

Specifications - Transmitter
Specifications - Receiver
Modifications
Family List Rational
Theory of Operation
System Diagram

Section 3. Powerline Conducted Emissions

Test Results
Graphs

Section 4. Occupied Bandwidth

Test Results
Graphs

Section 5. Peak Power Output

Test Results
Peak Power Output Table

Section 6. Spurious Emissions (Antenna Conducted)

Test Results
Graphs

Section 7. Spurious Emissions (Radiated)

Test Results
Test Data - Radiated Emissions (PEAK)
Test Data - Radiated Emissions (AVERAGE)
Radiated Photographs

Section 8. Transmitter Power Density

Test Results
Graphs

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Table Of Contents, continued

Section 9. Processing Gain

- Test Results
- Processing Gain Data
- Additional Data

Section 10. Test Equipment List

Annex A. Test Methodologies

- Powerline Conducted Emissions
- Occupied Bandwidth
- Peak Power Output
- Spurious Emissions at Antenna Terminal
- Radiated Spurious Emissions
- Transmitter Power Density
- Processing Gain

Annex B. Block Diagrams

- Test Site for Radiated Emissions
- Conducted Emissions
- Transmitter Power Density & Peak Power at Antenna Terminals
- Processing Gain

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 1. Summary Of Test Results

Manufacturer: Digital Security Controls

Model No.: WLS-915

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15, Subpart C, Paragraph 15.247 for Direct Sequence Spread Spectrum devices.

- | | |
|---|---|
| <input checked="" type="checkbox"/> New Submission | <input checked="" type="checkbox"/> Production Unit |
| <input type="checkbox"/> Class II Permissive Change | <input type="checkbox"/> Pre-Production Unit |
| <input type="checkbox"/> Family Listing | |

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.
See " Summary of Test Data".



NVLAP LAB CODE: 100351-0

TESTED BY: *Tom Tidwell* DATE: *9 APR. 1998*
Tom Tidwell, Senior Technologist

APPROVED BY: *W. Waterhouse* DATE: *13th April 1998*
W. Waterhouse, RF Engineering Lab Manager

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
 FCC ID: F5398SS15

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	MEAS.	RESULT
Powerline Conducted Emissions	15.207 (a)	48 dB μ V	N/A	N/A
Occupied Bandwidth	15.247 (a)(2)	\geq 500 kHz	765 kHz	Complies
Peak Power Output	15.247 (b)	1 watt	0.18 W	Complies
Spurious Emissions (Antenna Conducted)	15.247 (c)	-20 dBc	N/A	N/A
Spurious Emissions (Radiated)	15.247 (c)	Table 15.209 (a)	51dB μ V/m	Complies
Transmitter Power Density	15.247 (d)	\leq +8 dBm	-2.5 dBm	Complies
Processing Gain	15.247 (e)	\geq 10 dB	13.7 dB	Complies

Footnotes For N/A's:

- (1) Powerline Conducted Emissions were not performed since the E.U.T. is battery powered.
- (2) Antenna Conducted Spurious Emissions were not performed since the E.U.T. has an integral antenna.

Test Conditions: Temperature: 23 °C
 Humidity: 20 %

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 2. General Equipment Specification

Transmitter

Power Input:	12 Vdc Battery
Frequency Range:	924 MHz (Fixed)
Turnable Bands:	Not Applicable
6 dB Bandwidth:	765 kHz
Type of Modulation	FSK
Data Rate:	9600 bps
Internal / External Data Source:	Not Applicable
Emissions Designator:	F1D
Output Impedance:	Not Applicable
RF Power Output (Rated):	20 mW
Duty Cycle:	-18 dB (20 Log 12.4/100)
Channel Spacing:	Not Applicable
Operator Selection of Operating Frequency:	Not Applicable
Power Output Adjustment Capability:	Not Applicable

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Receiver

Frequency Range:

Turnable Bands:

LO:

1st IF:

2nd IF:

Bandwidth:

Type of Modulation:

Operator Selection of Operating Frequency

NOT APPLICABLE

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FCC PART 15, SUBPART C
DIRECT SEQUENCE TRANSMITTERS
PROJECT NO.: 7DI160-54C

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Description of Modification for Modification Filing

NOT APPLICABLE

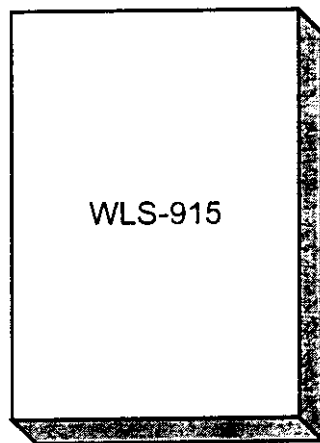
Family List Rational

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Theory of Operation

The E.U.T. is a magnetic switch activate transmitter designed to operate with the WLS-900 alarm system. The WLS-915 is a door contact transmitter.

System Diagram



Magnet

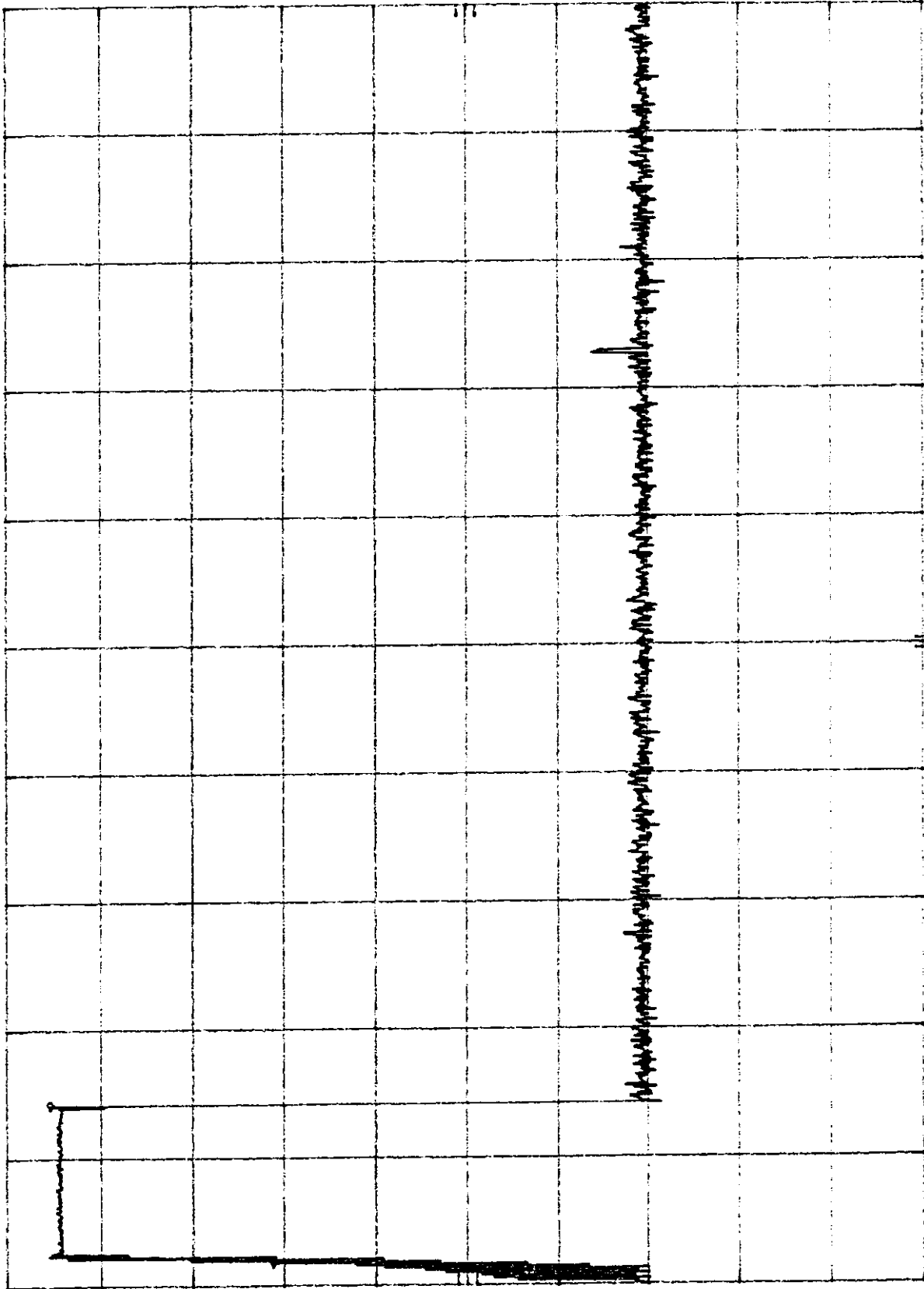
MKR Δ 12.40 msec
24.20 dB

ATTEN 10 dB

REF 0.0 dBm

HP

10 dB/



SPAN 0 Hz
SWP 100 msec

VBW 3 MHz

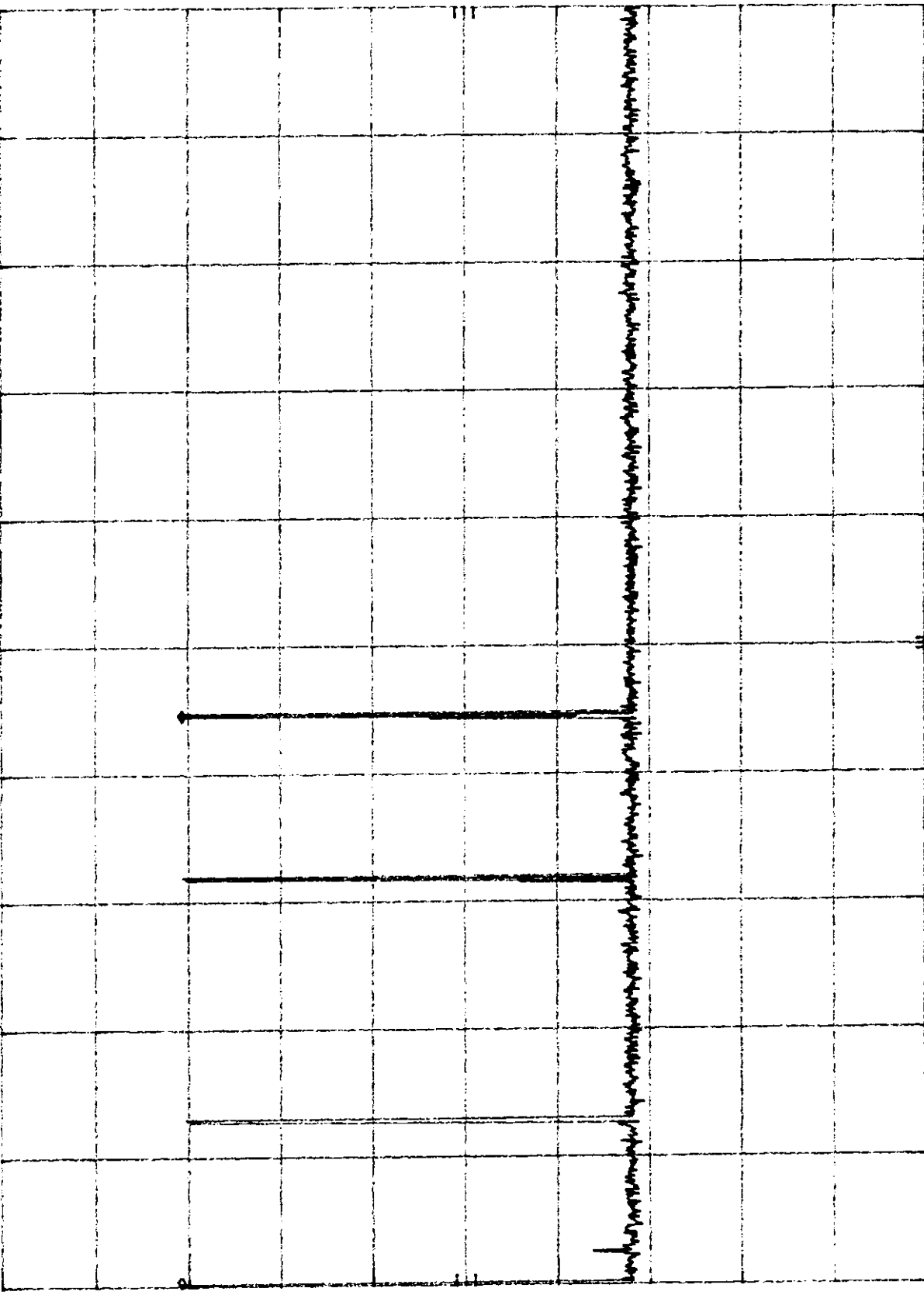
CENTER 924.000 000 MHz
RES BW 1 MHz

MKR Δ 2.230 sec
-0.10 dB

ATTEN 10 dB

REF 0.0 dBm

hp
10 dB/



SPAN 0 Hz
SWP 5.00 sec

VBW 3 MHz

CENTER 924.000 000 MHz
RES BW 1 MHz

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 3. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207(a)
TESTED BY:	DATE:

Test Results: Complies. See attached graph.

Measurement Data: See attached graph.

NOT APPLICABLE

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 15.247(a)(2)
TESTED BY: Tom Tidwell	DATE: February 16, 1998

Test Results: Complies. The 6 dB bandwidth is 0.765 MHz.
See attached graph.

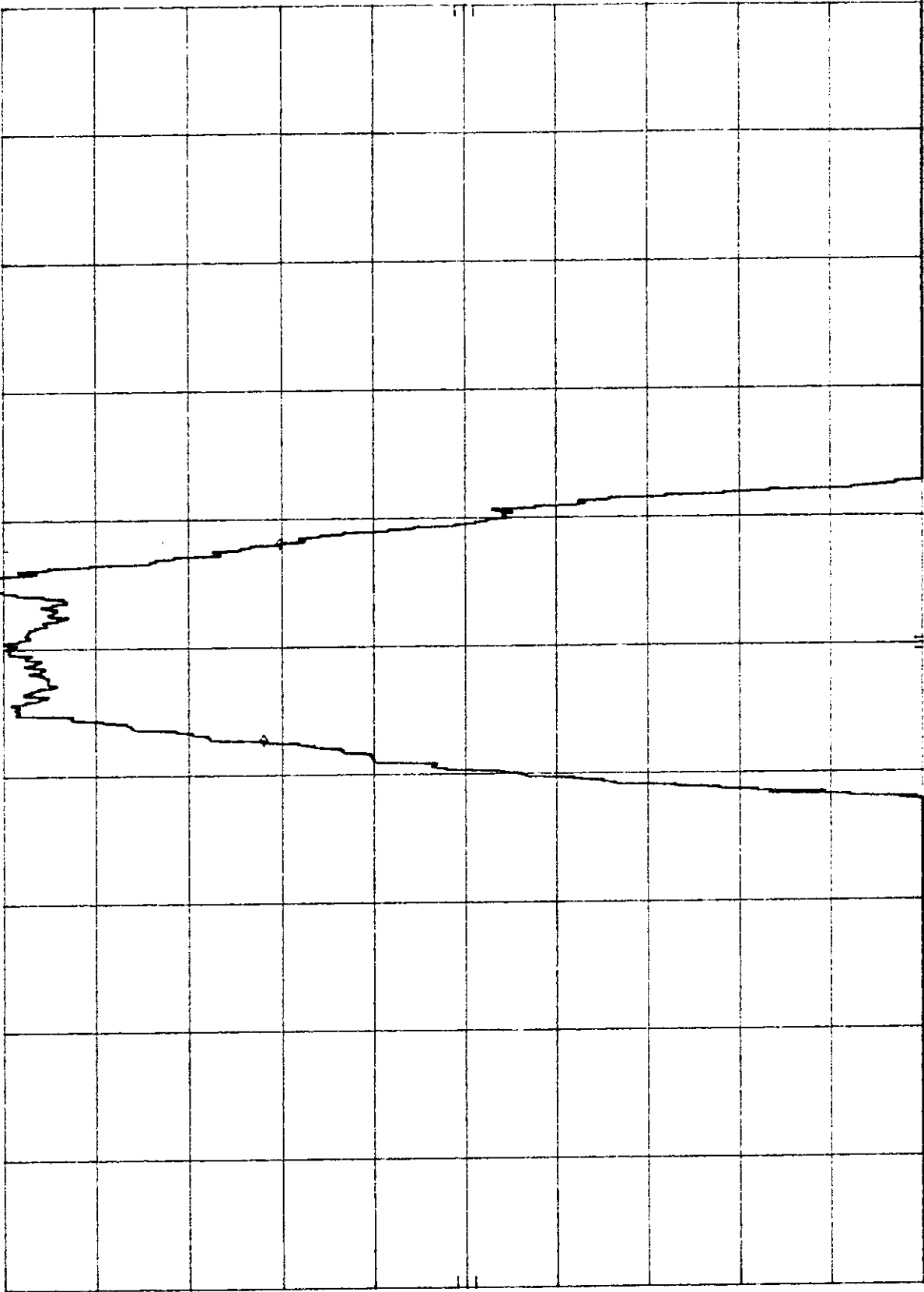
Measurement Data: See attached graph.

MKR Δ 765 KHZ
-0.36 dB

ATTEN 10 dB

REF -17.3 dBm

hp
2 dB/



SPAN 5.00 MHZ
SWP 20.0 msec

VBW 300 KHZ

CENTER 924.00 MHZ
RES BW 100 KHZ

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 5. Peak Power Output

NAME OF TEST: Peak Power Output	PARA. NO.: 15.247 (b)
TESTED BY: Tom Tidwell	DATE: January 19, 1998

Test Results: Complies. The maximum peak power output of the transmitter is 0.018 watts

Measurement Data: Detachable antenna? Yes No
If yes, state the type of non-standard connector used at the antenna port:

Directional Gain of Antenna: 0 dBi or 1 Numeric.

Peak Power Output: 0.018 watts.

Field Strength: 107.7 dB μ V/m @ 3m or 0.243 V/m @ 3m.

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 6. Spurious Emissions (Antenna Conducted)

NAME OF TEST: Spurious Emissions (Antenna Conducted)	PARA. NO.: 15.247(c)
TESTED BY:	DATE:

Test Results: Complies. The worst-case emission level is _____ dBm at _____ MHz. This is _____ dB above / below the specification limit.

Measurement Data: See attached graphs.

NOT APPLICABLE

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 7. Spurious Emissions (Radiated)

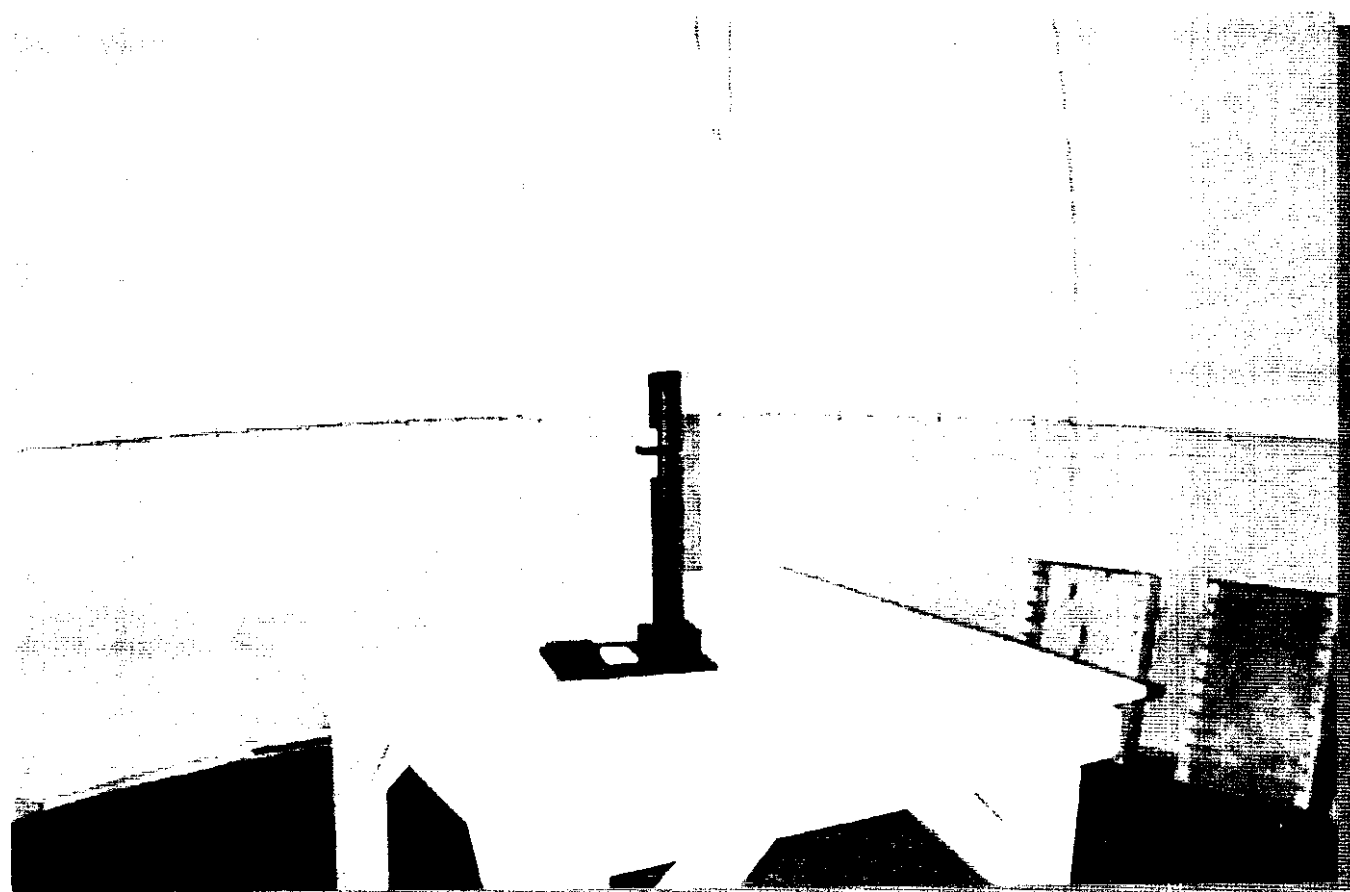
NAME OF TEST: Spurious Emissions (Radiated)	PARA. NO.: 15.247(c)
TESTED BY: Tom Tidwell	DATE: January 19, 1998

Test Results: Complies. The worst-case emission level is 51.0 dB μ V/m @ 3m at 3696 MHz. This is 3.0 dB below the specification limit.

Measurement Data: See attached graphs.

RADIATED PHOTOGRAPHS

FRONT VIEW



EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 8. Transmitter Power Density

NAME OF TEST: Transmitter Power Density	PARA. NO.: 15.247(d)
TESTED BY: Tom Tidwell	DATE: January 19, 1998

Test Results: Complies.

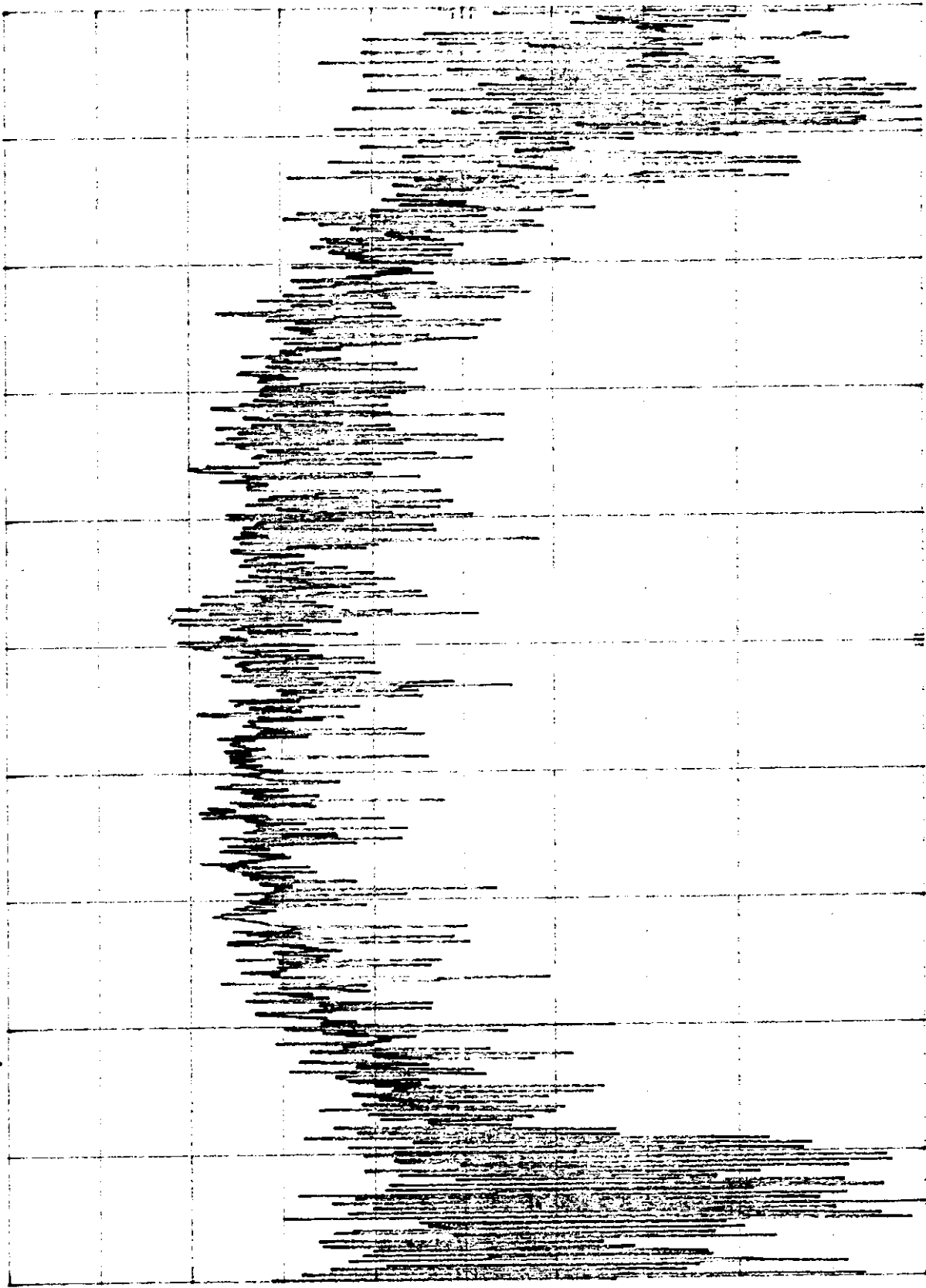
Measurement Data: See attached graphs.

Received Signal: 58 dB μ V
Antenna Factor: 34.7 dB
Field Strength: 92.7 dB μ V/m @ 3 m.
Field Strength: 0.043152 V/m
E.I.R.P.: 0.558626 mW
E.I.R.P.: -2.5 dBm

MKR 924.033 MHz
57.95 dBμV

REF 67.0 dBμV ATTEN 10 dB

hp
5 dB/



SPAN 1.50 MHz
SWP 500 sec

VBW 10 kHz

CENTER 924.00 MHz
RES BW 3 kHz

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Section 9. Processing Gain

NAME OF TEST: Processing Gain	PARA. NO.: 15.247(e)
TESTED BY: Tom Tidwell	DATE: January 19, 1998

Test Results: Complies. The processing gain of the system is 13.7 dB.

Measurement Data: See attached data.

BER: 2.5×10^{-1}
S/N_{out}: 1.42 dB
J/S Ratio: 10.3 dB
L_{sys}: 2 dB

$$10.3 \text{ dB} + 1.42 \text{ dB} + 2 \text{ dB} = 13.7 \text{ dB}$$

Measured with WLS 920 Receiver

*EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"**FCC ID: F5398SS15***Processing Gain Data**

Frequency (MHz)	Jamming Signal Level (dBm)	Transmitter Signal Level (dBm)	Jamming Margin (dB)	Processing Gain (Gp)	25% Ignored
923.25	-4.7	-20	15.3	18.7	
923.30	-6.3	-20	13.7	17.1	
923.35	-7.2	-20	12.8	16.2	
923.40	-6.1	-20	13.9	17.3	
923.45	-8.3	-20	11.7	15.1	
923.50	-7.5	-20	12.5	15.9	
923.55	-9.7	-20	10.3	13.7	
923.60	-6.4	-20	13.6	17.0	
923.65	-7.3	-20	12.7	16.1	
923.70	-6.0	-20	14.0	17.4	
923.75	-5.7	-20	14.3	17.7	
923.80	-8.1	-20	11.9	15.3	
923.85	-9.3	-20	10.7	14.1	
923.90	-7.0	-20	13.0	16.4	
923.95	-10.5	-20	9.5	12.9	x
924.00	-14.2	-20	5.8	9.2	x
924.05	-15.6	-20	4.4	6.8	x
924.10	-13.0	-20	7.0	10.4	x
924.15	-10.0	-20	10.0	13.4	x
924.20	-9.7	-20	10.3	13.7	x
924.25	-11.3	-20	8.7	12.1	x
924.30	-10.9	-20	9.1	12.5	x
924.35	-9.6	-20	10.4	13.8	
924.40	-7.0	-20	13.0	16.4	
924.45	-7.2	-20	12.8	16.2	
924.50	-6.8	-20	13.2	16.6	
924.55	-7.4	-20	12.6	16.0	
924.60	-6.4	-20	13.6	17.0	
924.65	-6.0	-20	14.0	17.4	
924.70	-7.3	-20	12.7	16.1	
924.75	-5.0	-20	15.0	18.4	

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FCC PART 15, SUBPART C
DIRECT SEQUENCE TRANSMITTERS
PROJECT NO.: 7DI160-54C

EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"
FCC ID: F5398SS15

Additional Data

NOT APPLICABLE

*EQUIPMENT: The Digital Security Controls "WLS-915 Alarm Transmitter"**FCC ID: F5398SS15***Section 10. Test Equipment List**

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.	
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	May 9/97	May 9/98	
	Plotter	Hewlett Packard	7470A	2308A30807	NCR	NCR	
1 Year	Quasi-peak adapter-1	Hewlett-Packard	85650A	2043A00302	Sept. 30/97	Sept. 30/98	
1 Year	Spectrum Analyzer-2	Hewlett Packard	8566B	1950A00400	Oct. 3/97	April 3/98	
1 Year	Spectrum Analyzer Display-2	Hewlett Packard	85662A	1950A01177	Oct. 3/97	April 3/98	
1 Year	Quasi Peak Adaptor-2	Hewlett Packard	85650A	2251A00620	Oct. 3/98	April. 3/98	
1 Year	Multimeter	Fluke	29	67902059	June 1/97	Jun 1/98	
1 Year	RF Millivoltmeter	Rohde & Schwarz	URV5	FA000420	July 23/97	July 23/98	
1 Year	Insertion Unit	Rohde & Schwarz	URV5-Z4	FA000905	July 23/97	July 23/98	
2 Year	Horn Antenna	EMCO #2	3115	4336	Oct. 30/97	Oct. 30/99	
1 Year	Dipole Antenna Set	EMCO	3121C	1029	Oct. 28/97	Oct. 28/98	
	50 Ω Termination	Wiltron	26N50	605248	N/A	N/A	
1 Year	50 ohm Combiner Pad	Mini Circuits	ZFC-3-4	922603	Dec. 5/97	Dec. 5/98	
1 Year	Low Noise Amplifier	Avantek	AWT-8035	1005	Oct. 24/97	Oct. 24/98	
1 Year	Low Noise Amplifier	DBS Microwave	DWT-13035	9623	Oct. 24/97	Oct. 24/98	

NA: Not Applicable
NCR: No Cal Required

EQUIPMENT:
FCC ID: F5398SS15

ANNEX A
TEST METHODOLOGIES

EQUIPMENT:
FCC ID: F5398SS15

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207(a)
---	----------------------

Test Conditions: Standard Temperature and Humidity
Standard Test Voltage

Minimum Standard: The R.F. that is conducted back onto the AC power line on any frequency within the band 0.45 to 30 MHz shall not exceed 250 μ V (48 dB μ V) across 50 ohms.

EQUIPMENT:
FCC ID: F5398SS15

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 15.247(a)(2)
----------------------------------	-------------------------

Test Conditions: Standard Temperature and Humidity
Standard Test Voltage

Minimum Standard: The minimum bandwidth shall be at least 500 kHz.

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW: 100 kHz
VBW: 100 kHz
Span: >RBW
LOG dB/div.: 2 dB
Sweep: Auto

Number of channels tested:

Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

EQUIPMENT:
 FCC ID: F5398SS15

NAME OF TEST: Peak Power Output	PARA. NO.: 15.247(b)
---------------------------------	----------------------

Test Conditions: Standard Temperature and Humidity
 Standard Test Voltage

Minimum Standard: The maximum peak power output shall not exceed 1 watt.
 If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Direct Measurement Method For Detachable Antennas:

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load.

Calculation Of EIRP For Integral Antenna:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

- P = the equivalent isotropic radiated power in watts
- E = the maximum measured field strength in V/m
- R = the measurement range (3 meters)
- G = the numeric gain of the transmit antenna in relation to an isotropic radiator

The RBW of the spectrum analyzer shall be set to a value greater than the measured 6 dB occupied bandwidth of the E.U.T.

Number of channels tested:

Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

EQUIPMENT:

FCC ID: F5398SS15

NAME OF TEST: Spurious Emissions at Antenna Terminal	PARA. NO.: 15.247(c)
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Test Conditions: Standard Temperature and Humidity
Standard Test Voltage

Minimum Standard: In any 100kHz bandwidth outside the 902 - 928 MHz bands emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength ($\mu\text{V/m @ 3m}$)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

The spectrum was searched to the 10th harmonic.

Method Of Measurement:

Upper Band Edge

RBW: At least 1% of span/div.
VBW: >RBW
Span: As necessary to display any spurious at band edge.
Sweep: Auto
Center Frequency: 928 MHz
Marker: Peak of fundamental emission
Marker Δ : Peak of highest spurious level above 928 MHz

Lower Band Edge

RBW: At least 1% of span/div.
VBW: >RBW
Span: As necessary to display any spurious at band edge.
Sweep: Auto
Center Frequency: 902 MHz
Marker: Peak of fundamental emission
Marker Δ : Peak of highest spurious level below 902 MHz

30 MHz - 10th Harmonic Plot

RBW: 100 kHz
VBW: 300 kHz
Sweep: Auto
Display line: -20 dBc

Number of channels tested:

Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

EQUIPMENT:
 FCC ID: F5398SS15

NAME OF TEST: Transmitter Power Density	PARA. NO.: 15.247(d)
---	----------------------

Test Conditions: Standard Temperature and Humidity
 Standard Test Voltage

Minimum Standard: The transmitted power density averaged over any 1 second interval shall not be greater than +8 dBm in any 3 kHz bandwidth.

Method Of Measurement: The spectrum analyzer is set as follows:

- RBW: 3 kHz
- VBW: >3 kHz
- Span: => measured 6 dB bandwidth
- Sweep: Span(kHz)/3 (i.e. for a span of 1.5 MHz the sweep rate is 1500/3 = 500 sec.
- LOG dB/div.: 2 dB

Note: For devices with spectrum line spacing =< 3 kHz, the RBW of the analyzer is reduced until the spectral lines are resolved. The measurement data is normalized to 3 kHz by summing the power of all the individual spectral lines within a 3 kHz band in linear power units.

For Devices With Integral Antenna:

For devices with non-detachable antennas, the received field strength is peaked and the spectrum analyzer is set as above. The peak emission level is then measured and converted to a field strength by adding the appropriate antenna factor and cable loss. This field strength is then converted to an equivalent isotropic radiated power using the same method as described for Peak Power output.

Number of channels tested:

Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

EQUIPMENT:
FCC ID: F5398SS15

NAME OF TEST: Processing Gain	PARA. NO.: 15.247(e)
-------------------------------	----------------------

Test Conditions: Standard Temperature and Humidity
Standard Test Voltage

Minimum Standard: The processing gain shall be at least 10 dB.

Method Of Measurement: The CW jamming margin method was used to determine the processing gain. A CW signal generator is stepped across the passband of the receiver in 50 kHz increments. At each point the signal generator level required to obtain the recommended bit error rate is recorded. The jammer to signal ratio (J/S) is then calculated. The worst 20% of the J/S points is discarded. The lowest remaining J/S ratio is used to calculate the processing gain.

Calculation Of Processing Gain:

The processing gain was determined by measuring the jamming margin of the E.U.T. and using the following formula:

$$\text{Jamming Margin} = G_p - (S/N)_{\text{out}} - L_{\text{sys}}$$

For a receiver using non-coherent detection the value $(S/N)_{\text{out}}$ is calculated using the formula:

$P_e = (1/2)\text{EXP}\{-E/2N_o\}$ where P_e is the probability of error (minimum Bit Error Rate required for proper operation).

E/N_o is $(S/N)_{\text{out}}$
for example, for a bit error rate of 10^{-4} a S/N ratio of 12.3 dB is required.

L_{sys} (system losses) is assumed to be 2 dB.

$$\text{Therefore } G_p = M_j + (S/N)_{\text{out}} + L_{\text{sys}}$$

Measurement performed at 915 MHz.

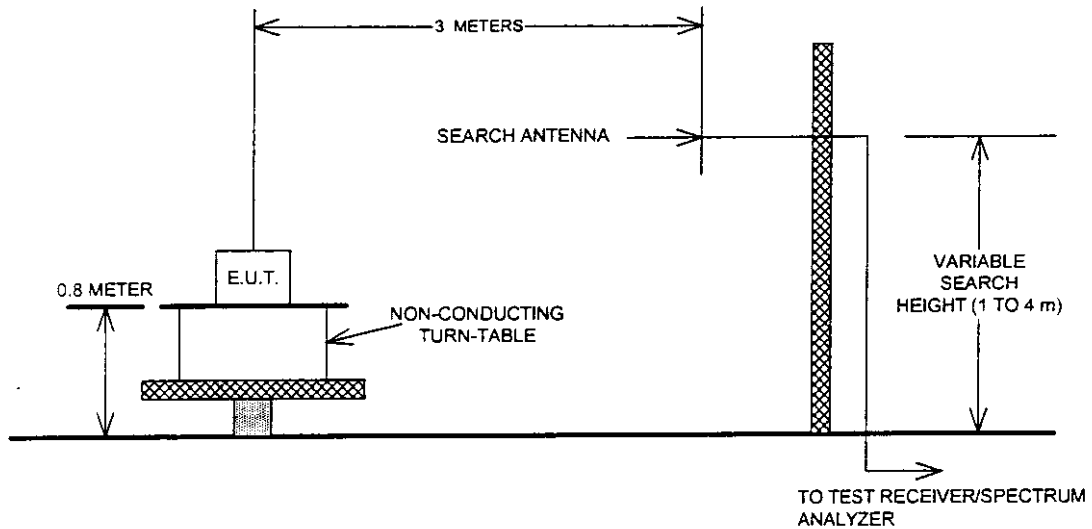
EQUIPMENT:
FCC ID: F5398SS15

ANNEX B
BLOCK DIAGRAMS

EQUIPMENT:

FCC ID: F5398SS15

Test Site For Radiated Emissions



Below 1 GHz

Peak detector.

RBW = 100 kHz

Above 1 GHz For Peak Emission Levels

Peak detector

RBW = 1 MHz

VBW = >RBW

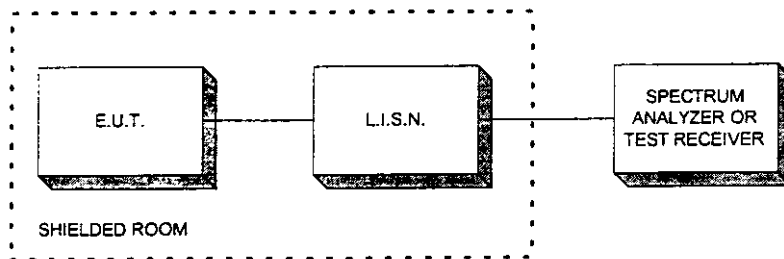
Above 1 GHz For Average Emission Levels

Peak detector

RBW = 1 MHz

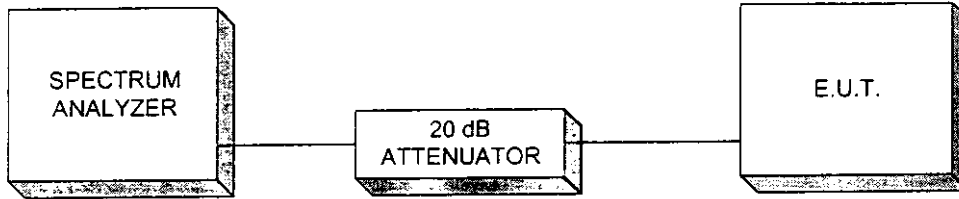
VBW = 10 Hz

Conducted Emissions



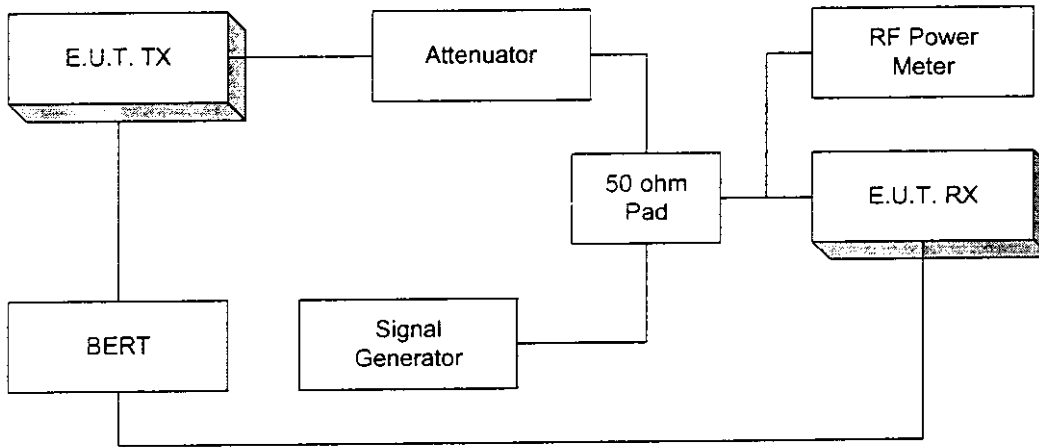
EQUIPMENT:
FCC ID: F5398SS15

Transmitter Power Density & Peak Power At Antenna Terminals



If the E.U.T. has an integral (non-detachable) antenna, the above test is performed as a radiated measurement and the result is reported as EIRP.

Processing Gain



NOTE: This is a typical setup. The setup may vary slightly since many devices have BER test functions built into the device.