

Exhibit No. 9



KTL Dallas, Inc.

Safety - EMC- Telecom - ISO Guide 25

ENGINEERING TEST REPORT

ON:

Model 9803-1

**IN ACCORDANCE WITH:
FCC PART 15, SUBPART B
CLASS B ; SUBPART C 15.247**

REPORT NO.: 8L0106EUS

TESTED FOR:

**PERSONAL SECURITY & SAFTY SYSTEMS, INC.
1237 EXECUTIVE DRIVE EAST
RICHARDSON TEXAS 75081**

TESTED BY:

**KTL DALLAS, INC.
802 N. KEALY STREET
LEWISVILLE, TEXAS 75057-3136**



NVLAP LAB CODE: 100426-0

NOVEMBER 1998

This document contains 28 pages including this one.

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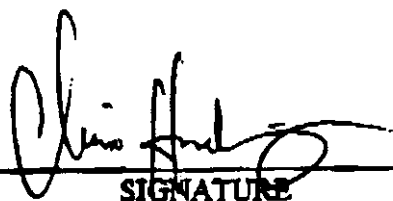
This report applies only to the item/s tested and does not constitute endorsement by the United States of America.

KTL Dallas, Inc.

FCC PART 15, SUBPART B CLASS B/ SUBPART C
REPORT NO.:8L0106EUS

EQUIPMENT: 9803-1

The equipment has been tested by KTL Dallas, Inc. for verification of compliance with FCC Part 15, Subpart B, Class B requirements for Digital Devices. Each unit manufactured, imported or marketed will conform to the sample(s) tested within the variations that can be expected due to quantity production and testing on a statistical basis.

BY: 
SIGNATURE

Chris Hudgins
PRINTED

TITLE: RF Engineer

COMPANY: Personal Security + Safety Systems, Inc.

DATE: 11/30/98

Section 1. Summary of Test Results**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 B for Class B. and Subpart C.

These tests were conducted using measurement procedures of ANSI C63.4-1992.

The equipment was tested for conducted emissions from 0.45 MHz to 30 MHz using a 50 μ H line impedance stabilization network (L.I.S.N.) as described in ANSI C63.4-1992. Peripheral equipment was also operated through a 50 μ H L.I.S.N.

The equipment was tested for radiated emissions from 30 MHz to 1000 MHz with extension to the 10th harmonic of any fundamental clock frequency in accordance with the requirements of FCC Part 15, Subpart B. and Subpart C. Frequencies were initially identified in a large shielded room. Amplitude measurements were made on an outdoor Open Area Test Site. Details of the outdoor site are on file with the FCC.

Abstract:

Name Of Test	Para. No.	Results
Conducted Emissions	15.207	COMPLIANT
Radiated Emissions	15.109	COMPLIANT
Restricted Bands	15.205	COMPLIANT
Radiated Emissions Limits	15.209	COMPLIANT
Operation within the Bands	15.247	COMPLIANT

THIS REPORT APPLIES ONLY TO THE ITEM(S) TESTED AND DOES NOT CONSTITUTE
ENDORSEMENT BY THE UNITED STATES OF AMERICA.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST
SPECIFICATIONS HAVE BEEN MADE: NONE

NVLAP Lab Code: 100426-0

TESTED BY: Edward McGrath DATE: 10/28/98
Edward McGrath

APPROVED BY: Wes Atchison DATE: 11/30/98
Wes Atchison, Senior EMC Engineer

EQUIPMENT: 9803-1

Section 2. Equipment Under Test (E.U.T.)

Manufacturer: Personal Security & Safty Systems Inc.

Model No.: 9803-1

Serial No.: 0001



Production Unit



Pre-Production Unit

The E.U.T was received in excellent condition on 10/27/98.

Description of E.U.T.

The E.U.T. is a transmitter with direct sequence spread spectrum modulation

Transmitting Frequency: 915.200 MHz.

Modifications Incorporated in E.U.T.

To achieve compliance the following change was made by customer during compliance testing:

Added 915.2 MHz

Bandpass Tank circuit

Justification:

The E.U.T. was configured for testing as per typical installation. Position and bundling of cables were investigated to establish maximum amplitude of emissions.

The following combinations were investigated to establish worst case configuration:

- (1) Transmitting, Direct sequence spread spectrum

Exercise Program:

The E.U.T. exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

Exercise mode:

- (1) Transmitting with direct sequence spread spectrum

EQUIPMENT: 9803-1

Section 3. Equipment Configuration**Equipment Configuration List:**

Item	Manufacturer	Description	FCC ID:	Model No.	Serial No.
(A)	PSSI	Transmitter	None	9803-1	0001
(B)	DB Products	50 Ohm Load	None	30 Watt	None
(C)	Antenna	Antenna Specialists	None	ASPG-955	253219-5

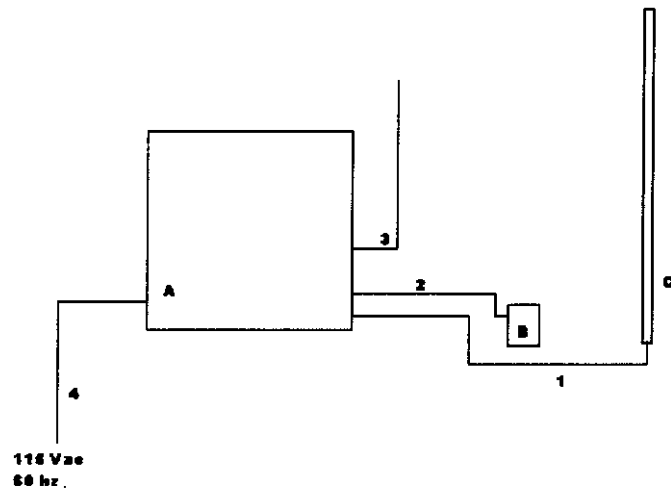
Inter-connection Cables:

Item	Description	Model No. / Manufacturer	Connectors	Length (m)	Shielded	
					Yes	No
(1)	COAX	RG142 / PSSI	SMA/N	4	X	
(2)	COAX	RG316/PSSI	SMA/SMA	1	X	
(3)	RS232	None/Unknown	DB9/DB9	2	X	
(4)	Power	None/Unknown	IEC	2		X

NOTE: Please see block diagram on next page.

EQUIPMENT: 9803-1

Configuration of the Equipment Under Test (E.U.T)



EQUIPMENT: 9803-1

Section 4. Conducted Emissions

NAME OF TEST: Conducted Emissions

PARA. NO.: 15.207

TESTED BY: Ed McGrath

DATE: 10/27/98

Test Conditions:

Test Voltage: 115 Vac

Temperature: 22°C

Humidity: 46%

Minimum Standard:

Frequency(MHz)	Maximum Powerline Conducted RF Voltage	
	μV	$\text{dB}\mu\text{V}$
0.45 - 30.0	250	48

Test Results:**The E.U.T. complies.**

The worst case conducted emission was measured as 21 $\text{dB}\mu\text{V}$ on the Hot conductor at 12.04 MHz. This is 27 dB below the specification limit of 48 $\text{dB}\mu\text{V}$.

Measurement Data:

See table below.

Test Data – Powerline Conducted Emissions, Test # CE-1:

Freq. (MHz)	Meter Reading ($\text{dB}\mu\text{V}$)	Attn. (dB)	Cable Loss (dB)	Probe Factor (dB)	Corrected Reading ($\text{dB}\mu\text{V}$)	Spec.limit ($\text{dB}\mu\text{V}$)	Pol.	Comments:
0.613	7	0	0	0	7	48	Hot	
11.54	14	0	0	0	14	48	Hot	
12.04	11	10	0	0	21	48	Hot	
24.1	16	0	0	0	16	48	Hot	
0.613	6	0	0	0	6	48	Neut.	
11.57	13	0	0	0	13	48	Neut.	
12.07	11	10	0	0	21	48	Neut.	
24.02	17	0	0	0	17	48	Neut.	
								Scanned 0.450 MHz to 30 MHz

Method Of Measurement: (Procedure ANSI C63.4-1992)

Measurements were made using a spectrum analyzer with 9 kHz RBW, Peak detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR Quasi-Peak detector.

Broadband emissions are identified by switching the receiver detector function from Quasi-Peak to Average. If the amplitude of the emission drops by 6 dB or more then the emission is classified as broadband and the Quasi-Peak level is reduced by a factor of 13 dB.

EQUIPMENT: 9803-1

Section 5. Radiated Emissions

NAME OF TEST: Radiated Emissions

PARA. NO.: 15.109

TESTED BY: Ed McGrath

DATE: 10/27/98

Test Conditions:

Test Voltage: 115 Vac

Temperature: 22°C

Humidity: 47%

Minimum Standard:

Frequency(MHz)	Maximum Field Strength at 3m	
	(μ V/m)	(dB μ V/m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

Test Results: Radiated Emissions, 30MHz to 1000MHz**The E.U.T. complies.**

The worst-case emission level is 40.58 dB μ V/m @ 3m at 514.8 MHz. This is 5.42 dB below the specification limit after Modification #1 was added to EUT.

Test Results: Microwave Radiated Emissions, 1GHz to 10GHz**The E.U.T. complies**

The worst-case emission level is 51.3 dB μ V/m @ 3m at 2.745 GHz. This is 2.7 dB below the specification limit.

EQUIPMENT: 9803-1

Measurement Data:

See attached table next page.

The equipment was prescanned in a shielded room using a spectrum analyzer and broadband antenna. A list of frequencies was compiled for investigation in the open field. The equipment was then moved to an open area test site where amplitude measurements were made at a distance of 3 meters. The bandwidth was set to 100 kHz and the detector function was CISPR Quasi-Peak. Any emission within 6 dB of the specification limit is re-measured using a reference tuned dipole antenna per ANSI C63.4.

Any emissions above 1 GHz were measured with a horn antenna and low noise pre-amplifier at a distance of 3 meters.

EQUIPMENT: 9803-1

Test Data - Radiated Emissions 30MHz to 1GHz, Test # RE-1:

Emission Frequency (MHz)	Ant. Pol. (H/V)	Det. Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. Limit (dBuV/m)	CRSL Delta (dB)	Pass Fail Marginal	Notes
42.900	V	0.0	42.0	10.36	2.59	24.6	30.35	40	-9.65	Pass	NOISE FLOOR
160.000	V	0.0	43.0	19.5	3.79	24.6	35.69	43.5	-7.81	Pass	
171.600	V	0.0	49.0	13.23	3.79	24.6	41.42	43.5	-2.08	Pass	REFER TO QP
171.600	V	0.0	45.5	13.23	3.79	24.6	37.92	43.5	-5.58	Pass	QP ICC #100
214.500	V	0.0	47.6	15.54	4.93	24.6	43.47	43.5	-0.03	Marginal	REFER TO QP
214.500	V	0.0	44.0	15.54	4.93	24.6	39.87	43.5	-3.63	Pass	QP ICC #100
257.400	V	0.0	48.0	17.995	5.5	24.6	46.895	46	0.895	Marginal	REFER TO QP
257.400	V	0.0	45.5	17.995	5.5	24.6	44.395	46	-1.605	Marginal	QP ICC #100
264.500	V	0.0	46.5	17.948	5.5	24.6	45.348	46	-0.652	Marginal	REFER TO QP
264.500	V	0.0	43.5	17.948	5.5	24.6	42.348	46	-3.652	Pass	QP ICC #100
271.700	V	0.0	46.0	17.577	5.5	24.6	44.477	46	-1.523	Marginal	REFER TO QP
271.700	V	0.0	42.0	17.577	5.5	24.6	40.477	46	-5.523	Pass	QP ICC #100
278.847	V	0.0	43.0	17.206	5.5	24.6	41.106	46	-4.894	Pass	REFER TO QP
278.847	V	0.0	39.5	17.206	5.5	24.6	37.606	46	-8.394	Pass	QP ICC #100
293.170	V	0.0	37.0	16.32	5.5	24.6	34.22	46	-11.78	Pass	
299.900	V	0.0	42.5	15.96	5.5	24.6	39.96	46	-6.64	Pass	
128.700	H	0.0	33.0	12	3.92	24.6	24.32	43.5	-19.18	Pass	
160.000	H	0.0	37.0	13.5	3.79	24.6	29.69	43.5	-13.81	Pass	
171.600	H	0.0	44.0	13.23	3.79	24.6	36.42	43.5	-7.08	Pass	
214.500	H	0.0	40.0	15.54	4.93	24.6	35.87	43.5	-7.63	Pass	
257.400	H	0.0	39.0	17.995	5.5	24.6	37.895	46	-8.105	Pass	
264.500	H	0.0	37.0	17.948	5.5	24.6	35.848	46	-10.15	Pass	
271.700	H	0.0	34.0	17.577	5.5	24.6	32.477	46	-13.52	Pass	
278.847	H	0.0	31.0	17.206	5.5	24.6	29.106	46	-16.89	Pass	
293.170	H	0.0	27.0	16.32	5.5	24.6	24.22	46	-21.78	Pass	
299.900	H	0.0	30.0	15.96	5.5	24.6	26.86	46	-19.14	Pass	
300.000	V	10.0	27.5	15.9	6.07	24.7	34.77	46	-11.23	Pass	
340.000	V	10.0	32.0	15.8	6.07	24.7	39.17	46	-6.83	Pass	
343.200	V	10.0	39.6	15.8	6.07	24.7	46.77	46	0.77	Marginal	REFER TO QP
343.200	V	10.0	37.5	15.8	6.07	24.7	44.67	46	-1.33	Marginal	QP ICC #100
350.360	V	10.0	34.0	14.5	6.07	24.7	39.87	46	-6.13	Pass	
359.300	V	10.0	33.0	14.71	6.07	24.7	39.08	46	-6.92	Pass	
360.000	V	10.0	37.0	14.92	6.07	24.7	43.29	46	-2.71	Pass	REFER TO QP
360.000	V	10.0	35.5	14.92	6.07	24.7	41.79	46	-4.21	Pass	QP ICC #100
380.000	V	10.0	31.0	15.76	6.07	24.7	38.13	46	-7.87	Pass	
386.100	V	10.0	40.0	15.97	6.07	24.7	47.34	46	1.34	Marginal	REFER TO QP
386.100	V	10.0	38.5	15.97	6.07	24.7	45.84	46	-0.16	Marginal	QP ICC #100
400.000	V	10.0	29.9	16.6	7.1	24.9	38.7	46	-7.3	Pass	
429.000	V	10.0	35.4	16.8	7.1	24.9	44.4	46	-1.6	Marginal	REFER TO QP
429.000	V	10.0	34.0	16.8	7.1	24.9	43	46	-3	Pass	QP ICC #100
442.650	V	10.0	36.0	16.92	7.1	24.9	45.12	46	-0.88	Marginal	REFER TO QP
442.650	V	10.0	35.0	16.92	7.1	24.9	44.12	46	-1.88	Marginal	QP ICC #100
470.000	V	10.0	25.0	16.76	7.1	24.9	33.96	46	-12.04	Pass	
514.800	V	10.0	34.0	16.64	8.04	25.1	43.58	46	-2.42	Pass	REFER TO QP
514.800	V	10.0	31.5	16.64	8.04	25.1	41.08	46	-4.92	Pass	QP ICC #100
570.000	V	10.0	26.0	18.72	8.04	25.1	37.66	46	-8.34	Pass	
786.500	V	10.0	30.0	22.09	9.71	25.4	46.4	46	0.4	Marginal	REFER TO QP
786.500	V	10.0	27.0	22.09	9.71	25.4	43.4	46	-2.6	Pass	QP ICC #100
898.875	V	10.0	60.9	23.35	10.48	25.0	79.73	46	33.73	Fail	EXEMPT (15.205)
915.200	V	10.0	90.0	23.32	11.24	24.9	109.66	46	63.66	Fail	Fundamental frequency *

EQUIPMENT: 9803-1

Emission Frequency (MHz)	Ant. Pol. (H/V)	Det. Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. Limit (dBuV/m)	CRSL Delta (dB)	Pass Fail Marginal	Notes
340.000	H	10.0	28.0	15.8	6.07	24.7	35.17	46	-10.83	Pass	
343.200	H	10.0	36.0	15.8	6.07	24.7	43.17	46	-2.83	Pass	REFER TO QP
343.200	H	10.0	33.0	15.8	6.07	24.7	40.17	46	-5.83	Pass	QP ICC #100
350.000	H	10.0	29.0	14.5	6.07	24.7	34.87	46	-11.13	Pass	
359.300	H	10.0	30.0	14.71	6.07	24.7	36.08	46	-9.92	Pass	
360.000	H	10.0	32.0	14.92	6.07	24.7	38.29	46	-7.71	Pass	
380.000	H	10.0	27.0	15.76	6.07	24.7	34.13	46	-11.87	Pass	
386.100	H	10.0	33.0	15.97	6.07	24.7	40.34	46	-5.66	Pass	
429.000	H	10.0	27.0	16.8	7.1	24.9	36	46	-10	Pass	
470.000	H	10.0	25.0	16.76	7.1	24.9	33.96	46	-12.04	Pass	
570.000	H	10.0	27.0	18.72	8.04	25.1	38.66	46	-7.34	Pass	
786.500	H	10.0	25.0	22.09	9.71	25.4	41.4	46	-4.6	Pass	EXEMPT (15.205)
898.000	H	10.0	43.0	23.35	10.48	25.0	61.83	46	15.83	Fail	EXEMPT (15.205)
915.200	H	10.0	72.0	23.32	11.24	24.9	91.66	46	45.66	Fail	Fundamental frequency *
											Continued 10/28/98
											Added Mod 1
214.500	V	10.0	30.0	15.34	4.93	24.6	35.87	43.5	-7.63	Pass	
257.400	V	10.0	34.0	17.995	5.5	24.6	42.895	46	-3.105	Pass	REFER TO QP
257.400	V	10.0	29.5	17.995	5.5	24.6	38.395	46	-7.605	Pass	QP 100
264.500	V	10.0	28.0	17.948	5.5	24.6	36.848	46	-9.152	Pass	
271.700	V	10.0	33.0	17.577	5.5	24.6	41.477	46	-4.523	Pass	REFER TO QP
271.700	V	10.0	29.0	17.577	5.5	24.6	37.477	46	-8.523	Pass	QP 100
343.200	V	10.0	31.2	15.8	6.07	24.7	38.37	46	-7.63	Pass	
360.000	V	10.0	31.0	14.92	6.07	24.7	37.29	46	-8.71	Pass	
386.100	V	10.0	29.0	15.97	6.07	24.7	36.34	46	-9.66	Pass	
429.000	V	10.0	30.0	16.8	7.1	24.9	39	46	-7	Pass	
442.650	V	10.0	22.0	16.92	7.1	24.9	31.12	46	-14.88	Pass	
514.800	V	10.0	31.0	16.64	8.04	25.1	40.58	46	-5.42	Pass	
786.500	V	10.0	35.2	22.09	9.71	25.4	51.6	46	5.6	Fail	RE: QP EXEMPT (15.205)
786.500	V	10.0	33.5	22.09	9.71	25.4	49.9	46	3.9	Fail	QP EXEMPT (15.205)
400.000	V	10.0	26.0	16.6	7.1	24.9	34.8	46	-11.2	Pass	
898.750	V	10.0	64.3	23.35	10.48	25.0	83.33	46	37.33	Fail	EXEMPT (15.205)
915.200	V	10.0	95.2	23.32	11.24	24.9	114.86	46	68.86	Fail	Fundamental frequency *
											* EXEMPT (15.247,D)
											edited 11/19/98 M.S.
											Scanned 30 MHz to 1 GHz

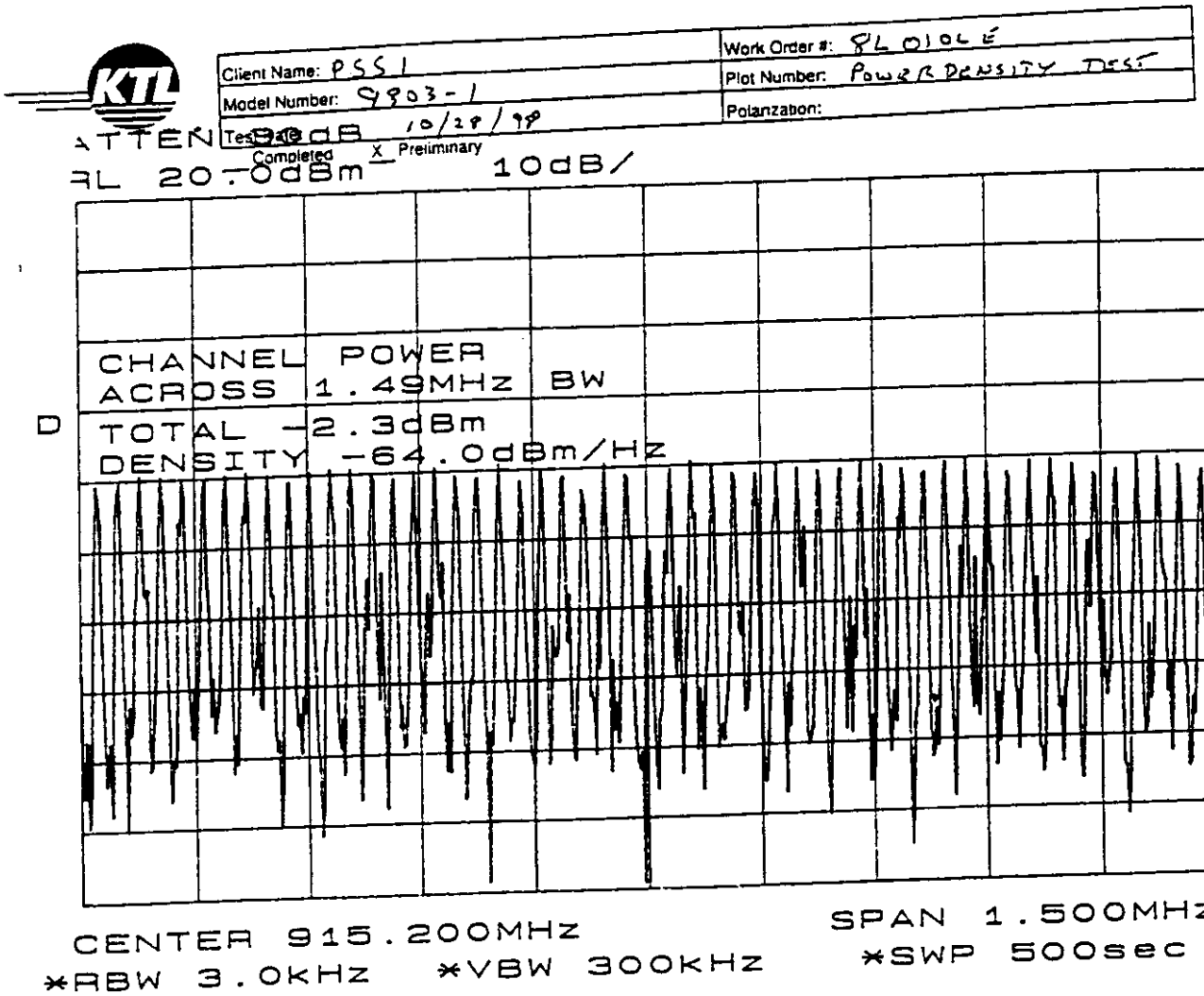
EQUIPMENT: 9803-1

Test Data – Microwave Radiated Emissions 1GHz to 10GHz, Test # MW-1:

Freq. (GHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	RF Gain (dB)	Conver. Factor	Corrected Reading (dBuV/m)	Spec. Limit (dBuV/m)	Pol.	Comments:
915.2	94	22.5	0.21	0	0	116.7		V	116.7 Fundamental
1.8	38	25.1	3.09	0	0	66.2	96.7	V	-30.5
2.745	18	29.1	4.21	0	0	51.3	54	V	-2.7 *
3.66	11	30.3	5.16	0	0	46.5	54	V	-7.5 *
9.152	18	37.7	9.01	0	0	64.7	96.7	V	-32.0 Noise Floor
915.2	64	22.5	0.21	0	0	86.7		H	86.7 Fundamental
1.8	31	25.1	3.09	0	0	59.2	66.7	H	-7.5
2.745	18	29.1	4.21	0	0	51.3	54	H	-2.7 *
3.66	11	30.3	5.16	0	0	46.5	54	H	-7.5 *
9.152	18	37.7	9.01	0	0	64.7	66.7	H	-2.0 Noise Floor
									Scanned 1 GHz
									to 10 GHz
									(*) Indicates Freq.
									is within Restricted
									Bands (15.205)

EQUIPMENT: 9803-1

Power Density Test:



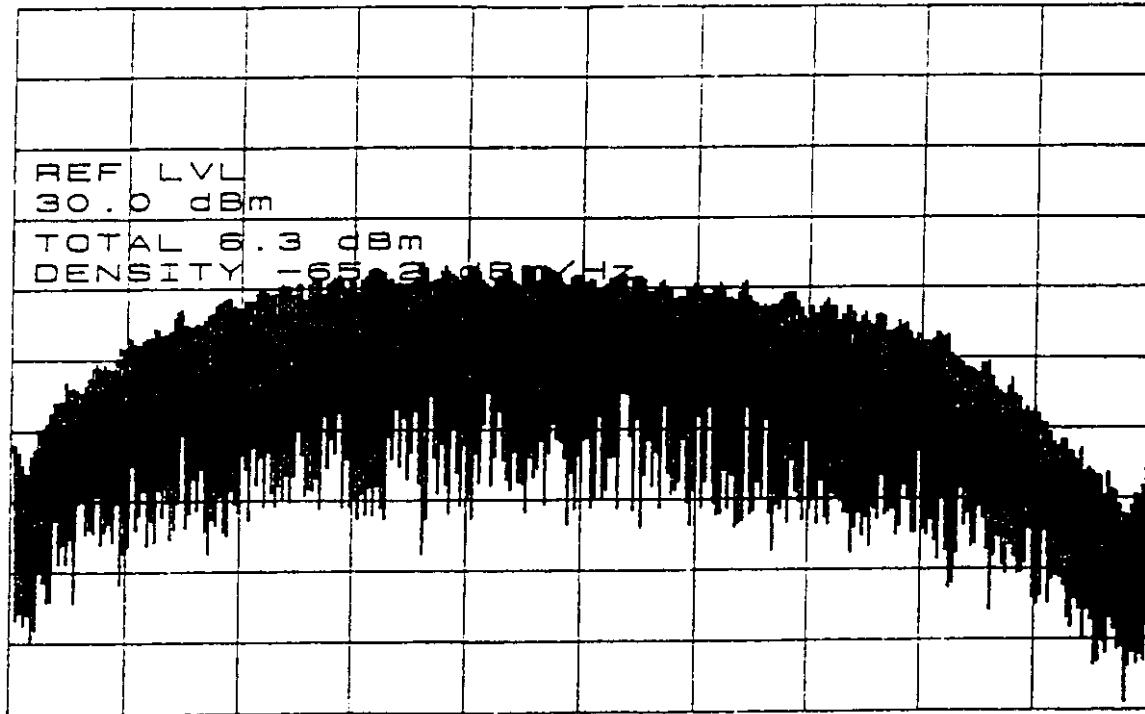
Center Frequency MHz	Analyzer reading dBm/Hz	External Attenuation	Conversion factor Hz to 3 kHz	Corrected Reading	Limit dBm/3kHz	Delta (dB)
915.2	-64	20	34.77	-9.23	+8	-17.23

EQUIPMENT: 9803-1

Conducted Power Output:



Client Name: 8551	Work Order #: 8L0106E
Model Number: 9803-1	Plot Number: RF Power Output
Test Date: 10/28/98	Polarization:
Completed ☒ Preliminary ☐	

ATTEN 40dB
FL 30.0dBm 10dB/

CENTER 915.20MHz

SPAN 14.30MHz

RBW 100kHz *VBW 3.0MHz

SWP 50.0ms

EQUIPMENT: 9803-1

Occupied Bandwidth:



Client Name: ISSI	Work Order #: 8L 0106E
Model Number: 9803-1	Plot Number: 2 WITH MOD / OCCUPIED BANDWIDTH
Test Date: 10/28-78	Polarization: VERTICAL
MKR 903.77 MHz	
75.20 dB V	

REF 97_0 dB V X Preliminary

10 dB/

DL
95.2
dB V

CORR'D

START 902.00 MHz STOP 928.00 MHz
RES BW 100 KHz VBW 100 KHz SWP 200 msec

15.247(A)

Section 6. Sample Calculations

Conducted Emissions:

If the Quasi-Peak to Average ratio is greater than 6 dB, then the emission is classified as broadband and its Quasi-Peak level is reduced by 13 dB for comparison to the limit.

- i.e. Quasi-Peak level = 40 dB μ V
 Average level = 34 dB μ V
 Corrected level = 40 - 13 = 27 dB μ V

Radiated Emissions:

Emissions are measured at a distance of 3 meters and corrected for antenna factor and cable loss.

- i.e. Received Signal = 25 dB μ V @ 100 MHz
 Antenna Factor & Cable Loss = 9.8 dB
 Field Intensity = 25 + 9.8 = 34.8 dB μ V/m @ 3 m

Power Spectral Density:

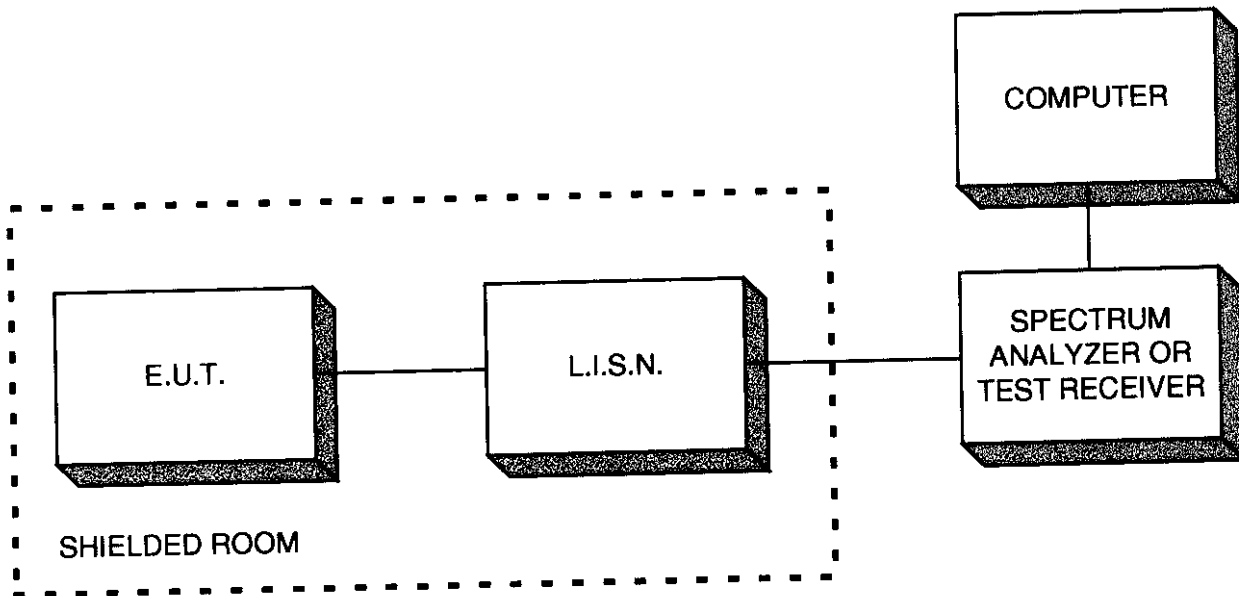
Emissions are measured using a Spectrum Analyzer and attenuators then corrected for bandwidth and attenuation loss.

- i.e. Density = - 64.0 dBm/HZ @ 915.2 MHz
 Attenuator = 20 dB
 Conversion factor for Hz to 3KHz = $10 \log(3\text{KHz}/\text{Hz}) = 34.77 \text{ dB}$
 Power Spectral Density @ 3 KHz = $-64 \text{ dBm}/\text{Hz} + 20 \text{ dB} + 34.77 \text{ dB} = -9.23 \text{ dBm}/3\text{KHz}$

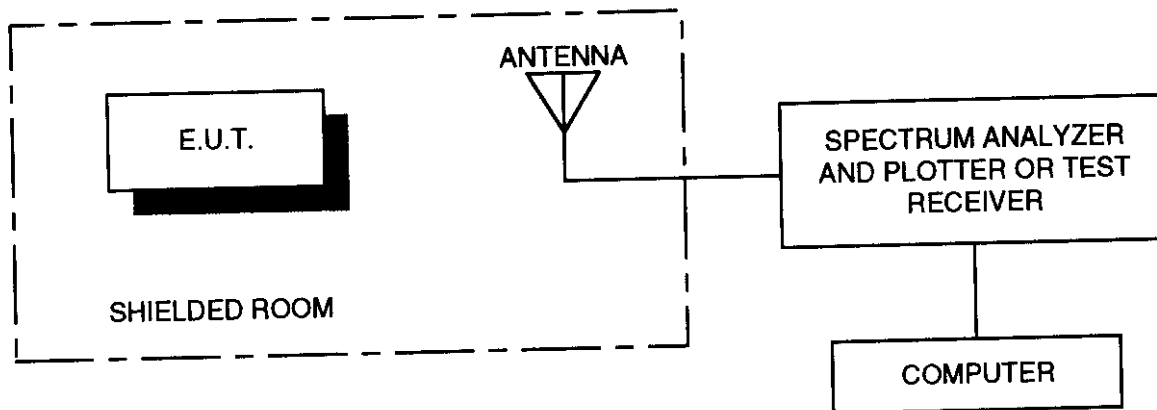
EQUIPMENT: 9803-1

Section 7. Block Diagrams

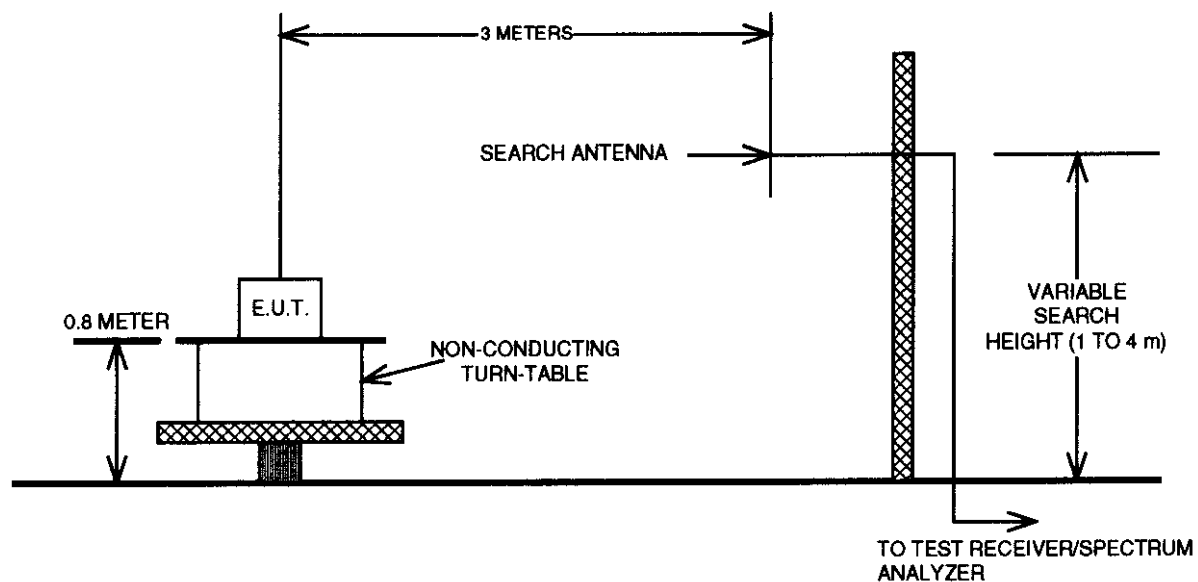
Conducted Emissions



Radiated Prescan



Outdoor Test Site For Radiated Emissions



The spectrum was searched up to the 10th harmonic of the fundamental frequency of operation.

EQUIPMENT: 9803-1

Section 8. Test Equipment List

The listing below indicates the test equipment utilized for the test (s). Calibration interval on all items is typically 12 months from the calibration date shown.

<u>KTL ID</u>	<u>Nomenclature</u>	<u>Manufacturer Model Number</u>	<u>Serial Number</u>	<u>Calibration Date</u>
C1A	A O.A.T.S. Cable Set			04/03/98
C21	RG223 Cable (9.1 Meters)			08/10/98
C42	RG213 Cable (1.0 meter)			04/09/98
CF01	Storm Cable (7.7 meters)			04/28/98
182	Limiter	Fischer FCC45013-1.2	NSN	02/27/98
212	LISN (10 kHz - 100 MHz)	EMCO 3825/2	1214	08/04/98
227	Antenna, LP	A.H. Systems SAS-200/510	556	01/24/98
230	Biconical Antenna (30 MHz - 300 MHz)	International Compliance Corporation. BCON-30300	210	01/17/98
250	Receiver (9 kHz - 30 MHz)	Rohde & Schwarz ESH2	88037/029	04/30/98
280	High Pass Filter ($f_c = 5$ kHz)	Solar 7930-5.0	9331234	11/16/98
401	Low Noise Preamplifier (1 MHz - 1 GHz)	RF Consultants LNA-14	020	08/13/98
446	K.20/K.21 Surge Adapter	International Compliance Corporation		CBU
494	Horn Antenna	A.H. Systems SAS-200/571	162	04/29/98
660(a)	Spectrum Analyzer	Hewlett Packard 8567A	2541A00109	01/06/98
660(b)	Display Unit	Hewlett Packard 85662A	2542A10537	01/06/98

EQUIPMENT: 9803-1

The listing below indicates the test equipment utilized for the test (s). Calibration interval on all items is typically 12 months from the calibration date shown.

<u>KTL ID</u>	<u>Nomenclature</u>	<u>Manufacturer Model Number</u>	<u>Serial Number</u>	<u>Calibration Date</u>
660(c)	Quasi-Peak Adapter	Hewlett Packard 85650A	2551A00608	01/06/98
677	Receiver (1 - 18 GHz)	Electro Metrics EMC 50	185	0/24/97
697	Spectrum Analyzer	Hewlett Packard 8563E	3551A04428	10/05/98
G1017B	Attenuator	Narda 776B-20		08/14/98
		LAB #1 (IN DOOR)		
		SITE A O.A.T.S. (OPEN AREA TEST SITE) 10 Meter Site		
	Turntable, 4 foot	RF Consultants (Automated)		CNR
	Antenna Mast, 4 Meter	EMCO Part # 1050 (Automated)		CNR

LEGEND:

CNR = CALIBRATION NOT REQUIRED

N/A = NOT APPLICABLE

CBU = CALIBRATED BEFORE US

BOOTH, FRERET, IMLAY & TEPPER, P.C.

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December 7, 1998

By Courier Service

Federal Communications Commission
c/o Mellon Bank
Three Mellon Bank Center
525 William Penn Way
27th Floor, Room 153-2713
Pittsburgh, PA 15259-0001
Attn: Wholesale Lockbox Shift Supervisor

Federal Communications Commission
EQUIPMENT APPROVAL SERVICES
P. O. Box 358315
Pittsburgh, PA 15251-5315

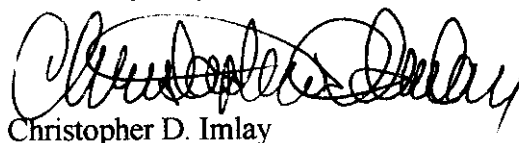
RE: PERSONAL SECURITY AND SAFETY SYSTEMS, INC.;
Application for Equipment Authorization / Certification of
Spread Spectrum Transmitter; FCC ID: NQQ; Equipment
Product Code: PS911-9803-1; FCC Form 731.

Gentlemen / Ladies:

Attached hereto for filing on behalf of the applicant, **PERSONAL SECURITY AND SAFETY SYSTEMS, INC. (PSSI)**, please find an original, executed FCC Form 731, together with exhibits, constituting an application for equipment authorization (certification) of a spread spectrum transmitter.

Please also find the enclosed check in the amount of \$940.00 to cover the requisite filing fee. This application is being submitted to Pittsburgh, PA, together with the fee. Should any question arise concerning this application, kindly notify the undersigned, counsel for the applicant.

Yours very truly,



Christopher D. Imlay

Encl.

cc: Chris Hudgins