



KTL Test Report:

9R01645

Applicant:

Uniden Corporation
2-10-9 Hatchobori
Chuo-Ku, Tokyo 104
Japan

**Equipment Under Test:
(E.U.T.)**

Model ASC911 Panic Phone

FCC ID:

AMWUH052

In Accordance With:

FCC Part 22, Subpart H
800 MHz Cellular Subscriber Units

Tested By:

KTL Ottawa Inc.
3325 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By:

R. Grant, Senior RF Specialist

Date:

Total Number of Pages:

44

test report

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

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EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

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EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

Section 1. Summary of Test Results

Manufacturer: Uniden Corporation

Model No.: ASC911 Panic Phone

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 22, Subpart H.



New Submission



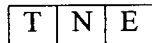
Production Unit



Class II Permissive Change



Pre-Production Unit



Equipment Code

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:

Wayne Clarke, Senior EMC Specialist

DATE:

June 22, 99

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*EQUIPMENT: Model ASC911 Panic Phone**FCC ID: AMWUH052*

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	MEAS.	RESULT
RF Power Output	2.1046	7W ERP	Meter	Complies
Audio Frequency Response	2.1047	6dB/Octave	Graph	Complies
Audio Low Pass Filter Response	2.1047	Graph	Graph	Complies
Modulation Limiting	2.1047	Graph	Graph	Complies
Occupied Bandwidth (Voice & SAT)	2.1049	Mask	Graph	Complies
Occupies Bandwidth (WB Data & SAT)	2.1049	Mask	Graph	Complies
Occupied Bandwidth (ST)	2.1049	Mask	Graph	Complies
Occupied Bandwidth (SAT)	2.1049	Mask	Graph	Complies
Spurious Emissions at Antenna Terminals	2.1051	-13 dBm	Graph	Complies
Field Strength of Spurious Emissions	2.1053	82.3 dB μ V/m	Table	Complies
Frequency Stability	2.1055	2.5 ppm	Table	Complies

Footnotes For N/A's:**Test Conditions:**

Indoor Temperature: 22 °C
 Humidity: 30 %

Outdoor Temperature: 24 °C
 Humidity: 30 %

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Section 2. General Equipment Specification

Frequency Range:	924 – 849 MHz
Tunable Bands:	One
Necessary Bandwidth:	40 kHz
Type of Modulation and Designator:	40K0F8W 40K0F1D
Data Source:	Internal
Output Impedance:	50 ohms
RF Power Output (rated):	26 dBm
Number of Channels:	832
Duty Cycle:	Continuous
Channel Spacing:	30 kHz
Operator Selection of Frequency:	Software Controlled
Power Output Adjustment Capability:	Software Controlled

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FCC PART 22, SUBPART H
800 MHz CELLULAR SUBSCRIBER UNITS
PROJECT NO.: 9R01645

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Description of Modifications For Class II Permissive Change

NOT APPLICABLE

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FCC PART 22, SUBPART H
800 MHz CELLULAR SUBSCRIBER UNITS
PROJECT NO.: 9R01645

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

Modifications Made During Testing

NOT APPLICABLE

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Theory of Operation

The E.U.T. is a cordless panic telephone. It has an emergency call button as well as a panic mode which activates a panic siren. The E.U.T. will call 911 while the panic siren is operating.

*EQUIPMENT: Model ASC911 Panic Phone**FCC ID: AMWUH052*

Section 3. RF Power Output

NAME OF TEST: RF Power Output

PARA. NO.: 2.1046

TESTED BY: Wayne Clarke

DATE: June 18, 1999

Test Results: Complies.**Measurement Data:**

Channel	Output Power (dBm)	Rated Power (dBm)	Measured / Rated (dBm)
334	0.320W		
334	25.4	26.0	-0.6

EQUIPMENT: Model ASC911 Panic Phone

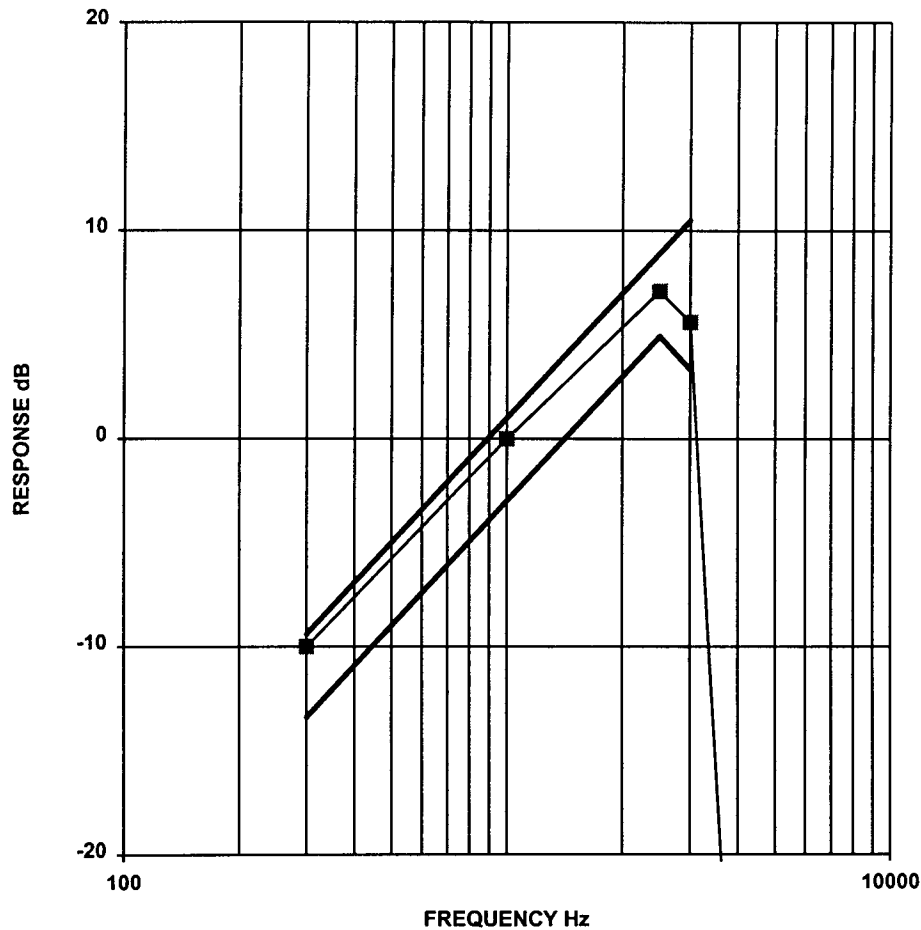
FCC ID: AMWUH052

NAME OF TEST: Audio Frequency Response

PARA. NO.: 2.1047

TESTED BY: Wayne Clarke

DATE: June 18, 1999



EQUIPMENT: Model ASC911 Panic Phone

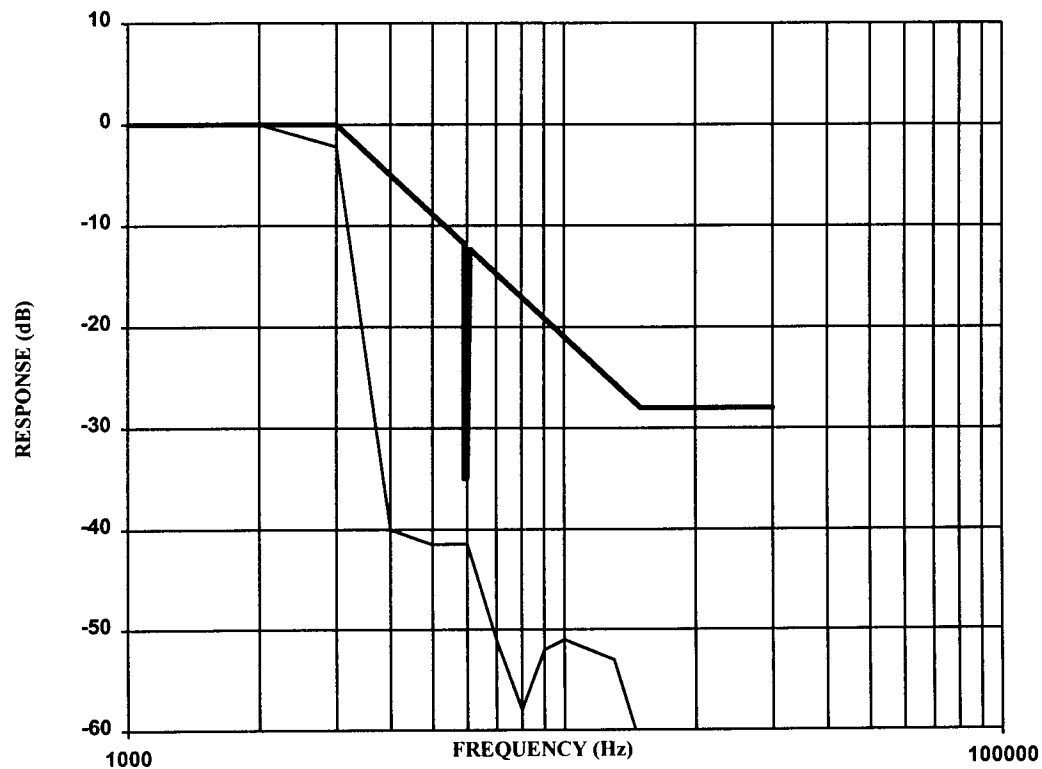
FCC ID: AMWUH052

NAME OF TEST: Audio Low-Pass Filter Response

PARA. NO.: 2.1047

TESTED BY: Wayne Clarke

DATE: June 18, 1999



EQUIPMENT: Model ASC911 Panic Phone

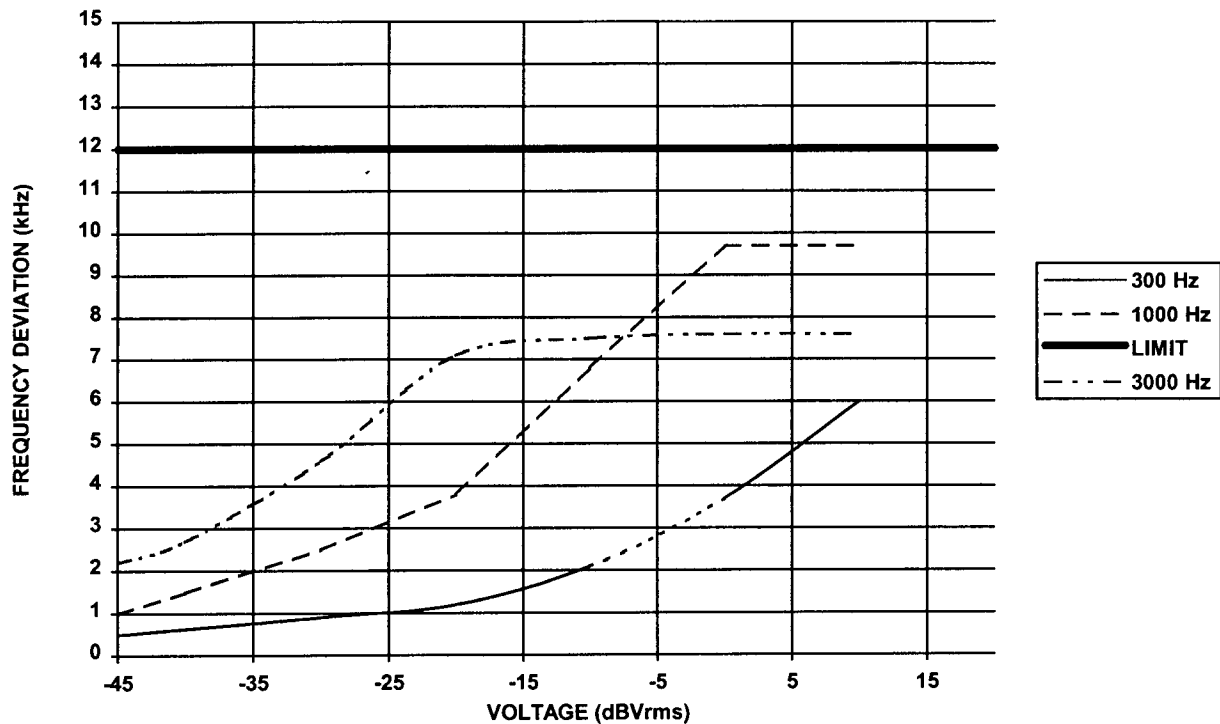
FCC ID: AMWUH052

NAME OF TEST: Modulation Limiting

PARA. NO.: 2.1047

TESTED BY: Wayne Clarke

DATE: June 18, 1999



SAT Deviation: 2.0 kHz

WB Data Deviation: 8.0 kHz

ST Deviation: 8.0 kHz

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EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Section 4. Occupied Bandwidth

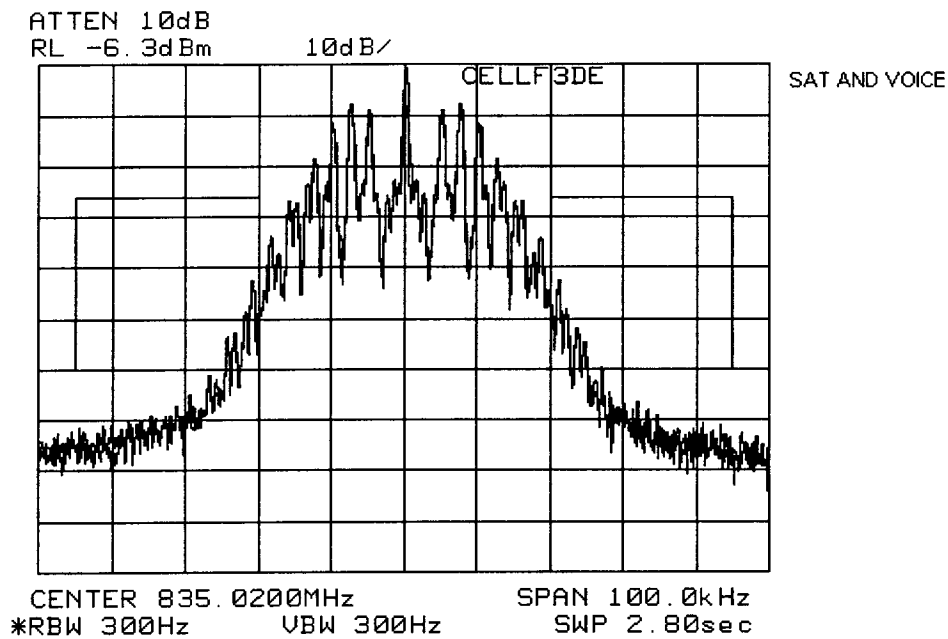
NAME OF TEST: Occupied Bandwidth (Voice + SAT)	PARA. NO.: 2.1049
TESTED BY: Wayne Clarke	DATE: June 18, 1999

Test Results: Complies.

Test Data: See attached graph(s).

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052



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EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

NAME OF TEST: Occupied Bandwidth (WB Data & SAT)

PARA. NO.: 2.1049

TESTED BY: Wayne Clarke

DATE: June 16, 1999

Test Results:

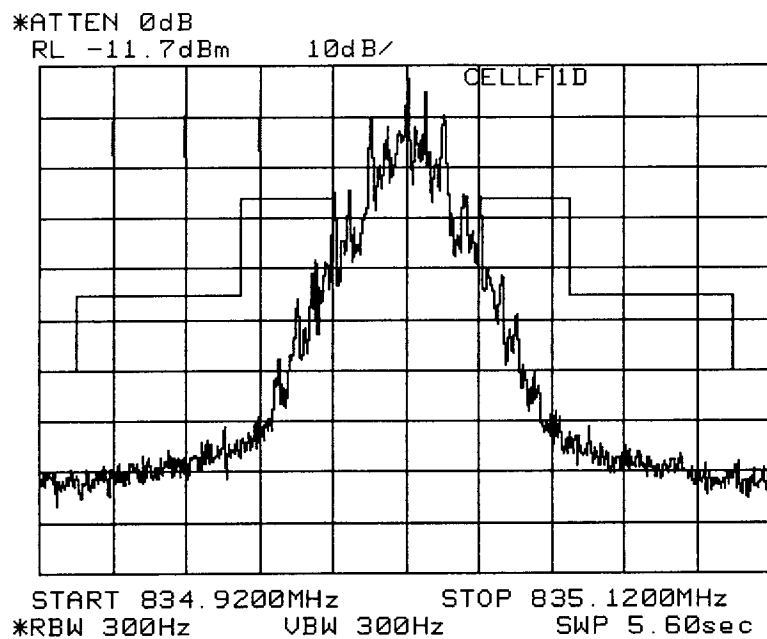
Complies.

Test Data:

See attached graph(s).

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052



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800 MHz CELLULAR SUBSCRIBER UNITS
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EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

NAME OF TEST: Occupied Bandwidth (ST)

PARA. NO.: 2.1049

TESTED BY: Wayne Clarke

DATE: June 18, 1999

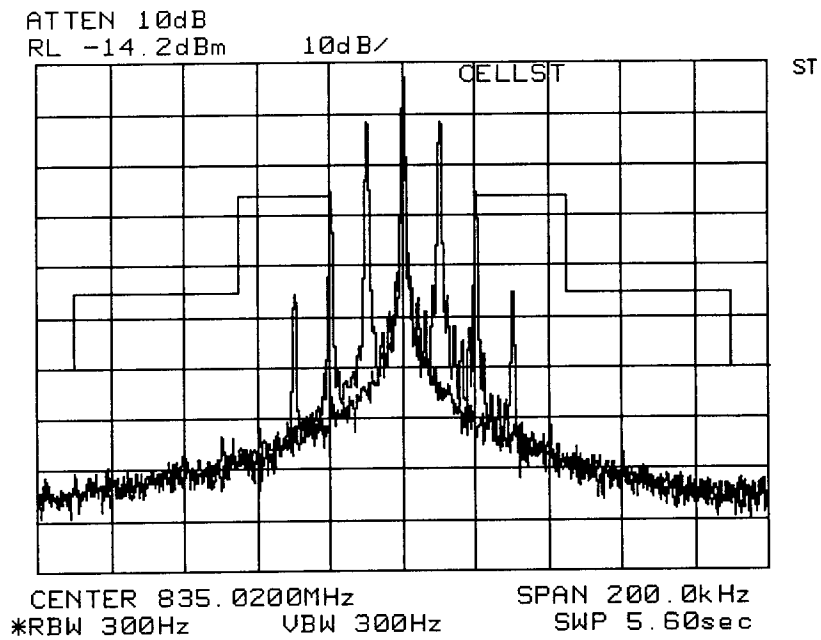
Test Results:

Complies.

Test Data:

See attached graph(s).

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052



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FCC PART 22, SUBPART H
800 MHz CELLULAR SUBSCRIBER UNITS
PROJECT NO.: 9R01645

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

NAME OF TEST: Occupied Bandwidth (SAT)

PARA. NO.: 2.1049

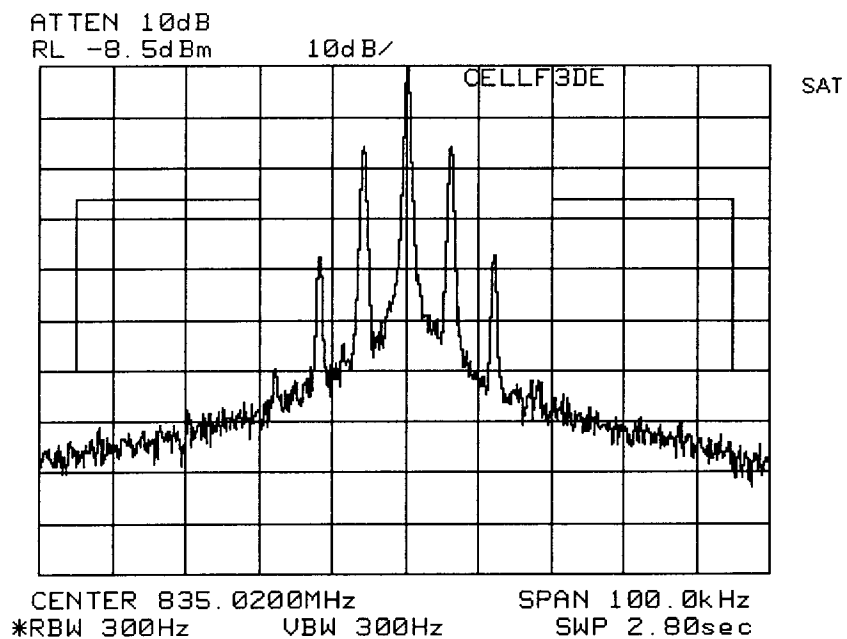
TESTED BY: Wayne Clarke

DATE: June 17, 1999

Test Results: Complies.

Test Data: See attached graph(s).

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052



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FCC PART 22, SUBPART H
800 MHz CELLULAR SUBSCRIBER UNITS
PROJECT NO.: 9R01645

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

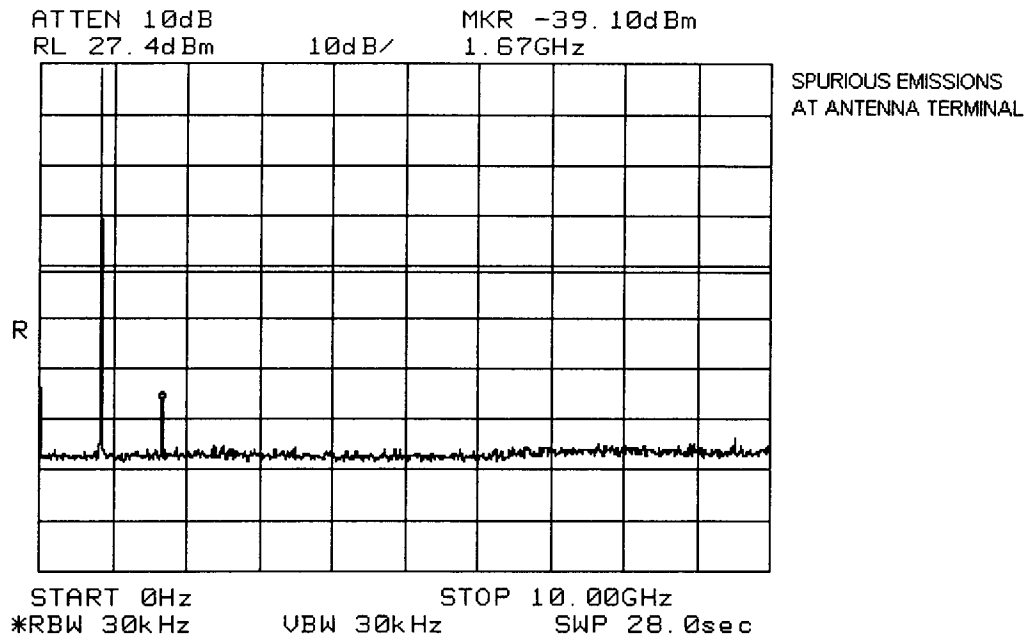
Section 5. Spurious Emissions At Antenna Terminals

NAME OF TEST: Spurious Emissions At Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: Wayne Clarke	DATE: June 17, 1999

Test Results: Complies.

Test Data: See attached graphs.

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052



EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.1053
TESTED BY: Wayne Clarke	DATE: June 18, 1999

Test Results: Complies.
The maximum field strength is 72.5 dB μ V/m @ 2506.06 MHz
@ 3m.

Test Data: See attached tables.

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Test Data - Radiated Emissions

Test Distance (meters) : 3		Range: A Tower		Receiver: 8563E		RBW (1 MHz):		Detector: PEAK			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1670.04	H	V			38.7	29.3			68.0	82.3	14.3
1670.04	H	H			38.0	29.3			67.3	82.3	15.0
2506.06	H	V			41.3	31.2			72.5	82.3	9.8
2506.06	H	H			39.7	31.2			70.9	82.3	11.4

Notes:

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

B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole

* Includes cable loss when amplifier is not used.

** Includes cable loss.

() Denotes failing emission level.

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 2.1055
TESTED BY: Wayne Clarke	DATE:

Test Results:

Complies. The maximum frequency drift is 397 Hz.
This is 0.475 ppm

Measurement Data:

Standard Test Frequency: 835.020 MHz
Standard Test Voltage: 6.0 Vdc

*EQUIPMENT: Model ASC911 Panic Phone**FCC ID: AMWUH052***Frequency Stability Tables**

	30°C	40°C	50°C
0.0	835 019 943	835 019 951	835 020 028
0.5	835 019 946	835 019 954	835 020 031
1.0	835 019 948	835 019 955	835 020 036
1.5	835 019 951	835 019 955	835 020 038
2.0	835 019 951	835 019 958	835 020 042
2.5	835 019 954	835 019 959	835 020 046
3.0	835 019 955	835 019 960	835 020 049
3.5	835 019 955	835 019 961	835 020 051
4.0	835 019 957	835 019 963	835 020 054
4.5	835 019 956	835 019 964	835 020 057
5.0	835 019 956	835 019 966	835 020 060

	20°C	
	+15%	-15%
0.0	835 019 919	835 019 926
0.5	835 019 919	835 019 926
1.0	835 019 920	835 019 927
1.5	835 019 921	835 019 926
2.0	835 019 922	835 019 927
2.5	835 019 923	835 019 927
3.0	835 019 923	835 019 927
3.5	835 019 925	835 019 928
4.0	835 019 923	835 019 929
4.5	835 019 925	835 019 928
5.0	835 019 925	835 019 929

	20°C	10°C	0°C	-10°C
0.0	835 019 940	835 019 774	835 019 907	835 019 660
0.5	835 019 938	835 019 795	835 019 907	835 019 637
1.0	835 019 939	835 019 811	835 019 905	835 019 636
1.5	835 019 937	835 019 821	835 019 904	835 019 641
2.0	835 019 935	835 019 830	835 019 903	835 019 645
2.5	835 019 934	835 019 845	835 019 903	835 019 649
3.0	835 019 933	835 019 859	835 019 902	835 019 657
3.5	835 019 933	835 019 869	835 019 899	835 019 662
4.0	835 019 932	835 019 903	835 019 898	835 019 668
4.5	835 019 932	835 019 912	835 019 897	835 019 673
5.0	835 019 930	835 019 914	835 019 896	835 019 679

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

Frequency Stability Tables, continued

	-20°C	-30°C
0.0	835 019 863	835 019 603
0.5	835 019 842	835 019 610
1.0	835 019 822	835 019 643
1.5	835 019 801	835 019 648
2.0	835 019 782	835 019 755
2.5	835 019 767	835 019 791
3.0	835 019 751	835 019 808
3.5	835 019 740	835 019 823
4.0	835 019 729	835 019 838
4.5	835 019 720	835 019 849
5.0	835 019 711	835 019 859

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

ANNEX A
TEST METHODOLOGIES

EQUIPMENT: Model ASC911 Panic Phone
 FCC ID: AMWUH052

NAME OF TEST: RF Power Output

PARA. NO.: 1.1046

Minimum Standard:

Para. No. 22.913(a). The E.R.P. of mobile transmitter and auxiliary test transmitter must not exceed 7 watts.

EIA is 19B Para. No. 3.2.1.3. The transmitter shall be compiled of 8 distinct power levels.

The output power shown above shall be maintained within the range of +2 dB, -4 dB of nominal dBW value

PL	I	II	III
0	+6	+2	-2
1	+2	+2	-2
2	-2	-2	-2
3	-6	-6	-6
4	-10	-10	-10
5	-14	-14	-14
6	-18	-18	-18
7	-22	-22	-22

Method Of Measurement:

Detachable Antenna:

The power at antenna terminals is measured using an in-line power meter.

Integral Antenna:

If the antenna is not detachable from the circuit then the Power Output is derived from the 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 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 a halfwave dipole antenna

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

NAME OF TEST: Audio Frequency Response	PARA. NO.: 2.1047
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Minimum Standard:

Para. No. 15-19-B. From 300 to 3000 Hz the audio frequency response shall not vary more than +1 to -3 dB from a true 6dB octave pre-emphasis characteristic as referred to 1000 Hz level (with the exception of a permissible 6dB per octave roll-off from 2500 to 3000 Hz).

Method Of Measurement:

Operate the transmitter with the compressor disabled, and monitor the output with a frequency deviation meter or standard test receiver without standard 750-microsecond de-emphasis, with expander disabled, and without C-message weighted filter (see 6.6.2). Apply a sine wave audio input to the transmitter external audio input port, vary the modulating frequency from 300 to 3000 Hz and observe the input levels necessary to maintain a constant ± 2.9 kHz system deviation.

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

NAME OF TEST: Audio Low Pass Filter Response

PARA. NO.: 2.1047

Minimum Standard:

Para. No. 22.915 (d). For mobile stations, signals must be attenuated as a function of frequency as follows:

- i. In the frequency ranges 3.0 to 5.9 Hz and 6.1 to 15 kHz, 40 log (f/3) dB.
- ii. In the frequency range 5.9 to 6.1 kHz, 35 dB
- iii. In the frequency range above 15 kHz, 28 dB.

Method Of Measurement:

Adjust the audio input frequency to 1000 Hz and adjust the input level to 20 dB greater than that required to produce ± 8 kHz deviation. Note the output level on the frequency deviation meter or standard test receiver. Using the output level as reference (0dB), vary the modulating frequency from 3000 Hz to 30,000 Hz and observe the change in output while maintaining a constant audio input level.

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

NAME OF TEST: Modulation Limiting	PARA. NO.: 2.1047
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Minimum Standard: 22.915(b)

The levels of the modulating signals must be set to the values specified below and must be maintained within $\pm 10\%$ of these values.

Voice: ± 12 kHz

SAT: ± 2 kHz

Wideband Data: ± 8 kHz

ST: ± 8 kHz

Method Of Measurement:

Voice: A 1 kHz audio tone is injected at levels between -45 and +20 dBVrms. The peak deviation is noted. This is repeated with a 300 Hz tone and a 3 kHz tone.

SAT: A SAT tone is generated by the mobile station and the peak deviation is measured.

Wideband Data: Wideband data is generated by the mobile station and the peak deviation is measured.

ST: ST data is generated by the mobile station and the peak deviation is measured.

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: A11WUH052

NAME OF TEST: Occupied Bandwidth (Voice & SAT)	PARA. NO.: 2.1049
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Minimum Standard: 22.917(b) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

- (i) On any frequency removed from the carrier frequency by more than 20 kHz but not more than 45 kHz: at least 26 dB
- (ii) On any frequency removed from the carrier frequency by more than 45 kHz, up to the first multiple of the carrier frequency:

at least 60 dB or $43 + 10 \log (P)$ dB, whichever is the lesser attenuation.

Method Of Measurement:

Spectrum Analyzer Settings:

RBW: 300 Hz
VBW: $\geq$ RBW
Span: 100 kHz
Sweep: Auto
Mask: CELLF3E

Input Signal Characteristics (F3E/F3D):

AF1 frequency: 2.5 kHz
AF1 level: 16 dB above the level sufficient to produce ± 6 kHz deviation with a 1 kHz tone.
SAT: 6000 Hz SAT
SAT level: sufficient to produce ± 2 kHz deviation.

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

NAME OF TEST: Occupied Bandwidth (WBD & SAT)	PARA. NO.: 21049
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Minimum Standard: 22.917(d) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

(1) On any frequency removed from the carrier frequency by more than 20 kHz but not more than 45 kHz:

at least 26 dB

(2) On any frequency removed from the carrier frequency by more than 45 kHz but not more than 90 kHz:

at least 45 dB

(3) On any frequency removed from the carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency:

at least 60 dB or $43 + 10 \log (P)$ dB, whichever is the lesser attenuation.

Method Of Measurement:

Spectrum Analyzer Settings:

RBW: 300 Hz

VBW: $\geq$ RBW

Span: 200 kHz

Sweep: Auto

Mask: CELLF1D

Input Signal Characteristics:

RF level: Maximum recommended by manufacturer

10 kbps WBD + DAT

ST

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

NAME OF TEST: Spurious Emission at Antenna Terminals	PARA. NO.: 2.1051
---	--------------------------

Minimum Standard: Para. No. 22.917(b). The mean power of emissions must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least $43 + 10 \log P$. This is equivalent to -13 dBm absolute power.

Method Of Measurement:

Spectrum Analyzer Settings:

RBW: 30 kHz (AMPS). As required for digital modulations.

VBW: $\geq$ RBW

Start Frequency: 0 MHz

Stop Frequency: 10 GHz

Sweep: Auto

EQUIPMENT: Model ASC911 Panic Phone

FCC ID: AMWUH052

NAME OF TEST: Field Strength of Spurious Radiation

PARA. NO.: 2.1053

Minimum Standard: Para. No. 22.917(b). The mean power of emissions must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least $43 + 10 \log P$. This is equivalent to -13 dBm absolute power.

Calculation Of Field Strength Limit:

An example of attenuation requirement of $43 + 10 \log P$ is equivalent to -13 dBm (5×10^{-5} Watts) at the antenna terminal. We determine the field strength limit by using the plane wave relation.

$$GP/4\pi R^2 = E^2/120\pi$$

For emissions ≤ 1 GHz:

$G = 1.64$ (Dipole Gain)

$P = 10^{-5}$ Watts (Maximum spurious output power)

$R = 3m$ (Measurement Distance)

$$E = \frac{\sqrt{30GP}}{R}$$

$$E = \frac{\sqrt{30 \times 1.64 \times 5 \times 10^{-5}}}{3} = 0.016533 \text{ V / m} = 84.4 \text{ dB}\mu\text{V / m}$$

For emissions > 1 GHz:

$G = 1$ (Isotropic Gain)

$P = 1 \times 10^{-5}$ Watts (Maximum spurious output power)

$R = 3m$ (Measurement Distance)

$$E = 84.4 - 20 \log \sqrt{1.64} = 82.3 \text{ dB}\mu\text{V / m} @ 3m$$

The spectrum is searched to 10 GHz.

*EQUIPMENT: Model ASC911 Panic Phone**FCC ID: AMWUH052***NAME OF TEST: Frequency Stability****PARA. NO.: 2.1055****Minimum Standard:**

Para. No. 22.355. The transmitter carrier frequency shall remain within the tolerances given in Table C-1.

Freq. Range (MHz)	Mobile > 3 W	Mobile ≤ 3 W
821 to 896	2.5	2.5

Table C-1

Method Of Measurement:Frequency Stability With Voltage Variation:

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation:

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

KTL Ottawa

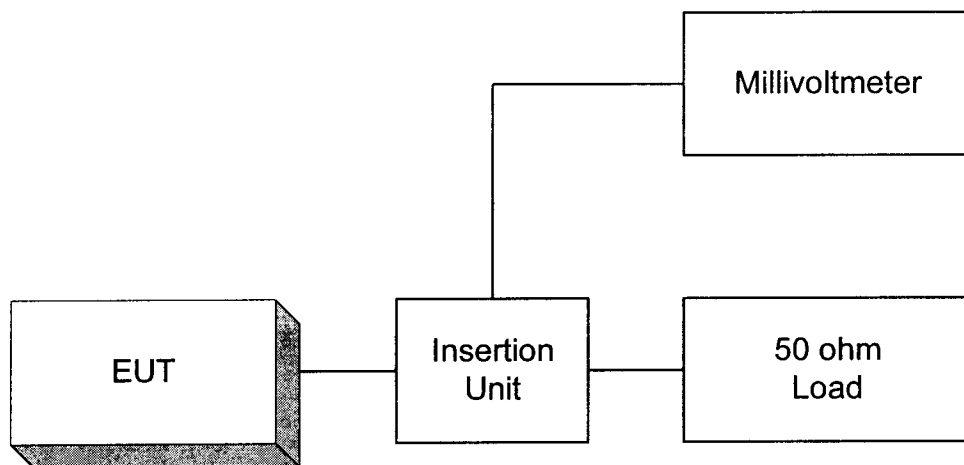
FCC PART 22, SUBPART H
800 MHz CELLULAR SUBSCRIBER UNITS
PROJECT NO.: 9R01645
ANNEX B

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

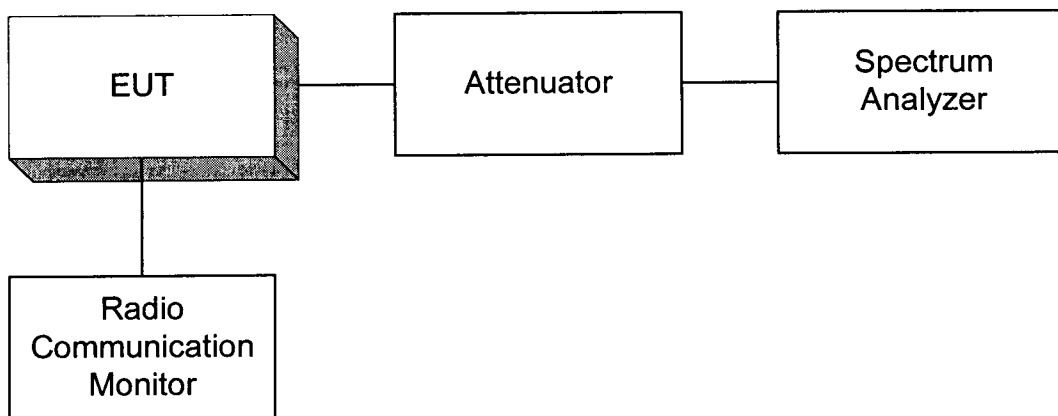
ANNEX B
TEST DIAGRAMS

EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Para. No. 2.1046 - R.F. Power Output

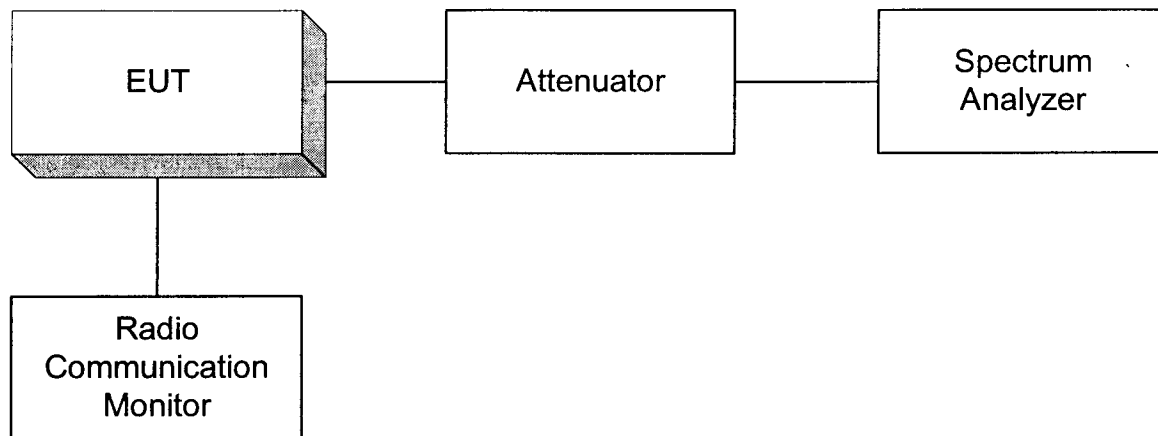


Para. No. 2.1049 - Occupied Bandwidth

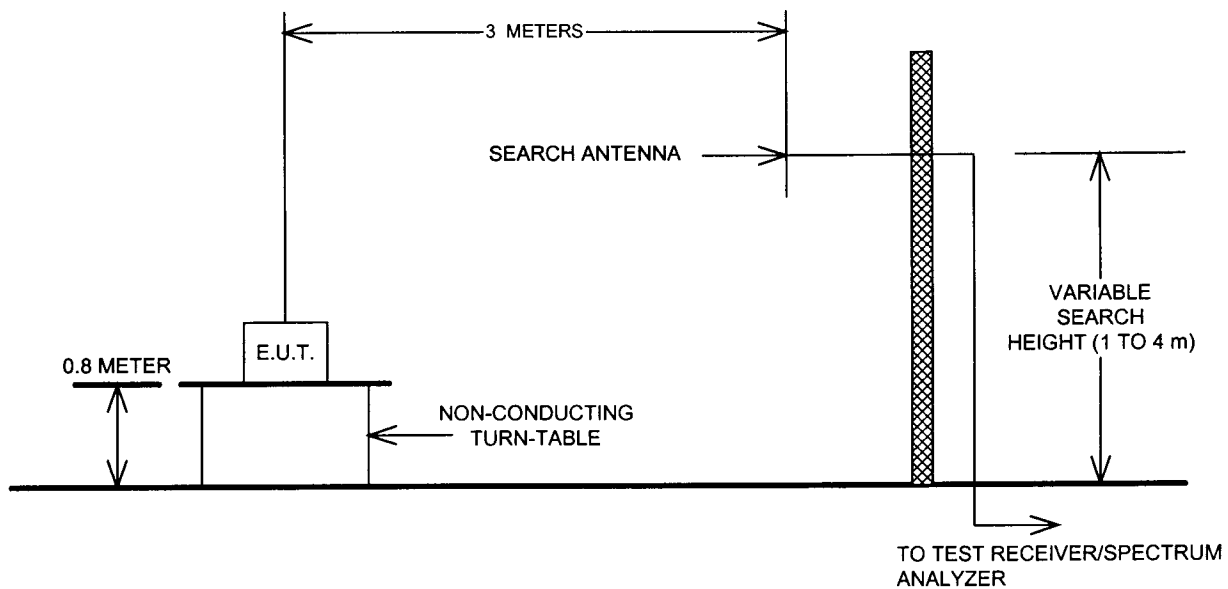


EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Para. No. 2.1051 Spurious Emissions at Antenna Terminals

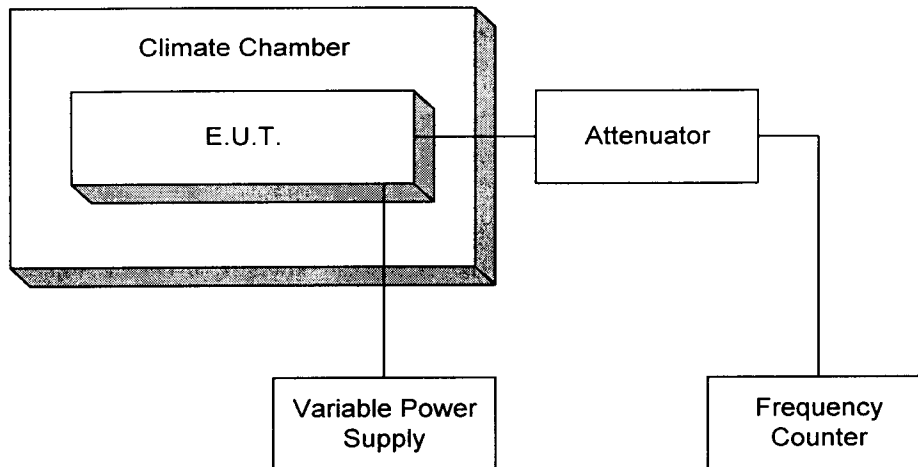


Para. No. 2.1053 - Field Strength of Spurious Radiation



EQUIPMENT: Model ASC911 Panic Phone
FCC ID: AMWUH052

Para. No. 2.1055 - Frequency Stability



**Para. No. 2.1045 – Audio Frequency Response, Audio Low Pass Filter Response
And Modulation Limiting**

