

Nemko Test Report:

6L0791RUS1

Applicant:

STEMCO, LP 300 Industrial Blvd. Longview, Texas75604 USA

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

Active TracBat Model 6049999

In Accordance With:

FCC Part 15, Subpart C, 15.247 Digital Transmission System Transmitter

Tested By:

Nemko USA, Inc. 802 N. Kealy Lewisville, Texas 75057-3136

TESTED BY:

DATE: 21 December 2006

David Light, Senior Wireless Engineer

APPROVED BY:

Abe Cox, Key Account Manager

DATE: 21 December 2006

Number of Pages: 31

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Section 1. Summary of Test Results

Manufacturer: STEMCO, LP

Model No.: Active TracBat 6049999

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 Part 15, Subpart C, Paragraph 15.247 for Digital Transmission Systems. Radiated tests were conducted is accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.



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. Soo "Summary of Test Date"

See "Summary of Test Data".



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Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Powerline Conducted Emissions	15.207(a)	NA
Minimum 6 dB Bandwidth	15.247(a)(2)	Complies
Maximum Peak Power Output	15.247(b)(3)	Complies
Spurious Emissions	15.247(d)/15.209(a)	Complies
Peak Power Spectral Density	15.247(e)	Complies

Footnotes:

The EUT is battery powered.

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

General Equipment Information

Frequency Band (MHz):	902-928	2400-2483.5	5725-5850
		\boxtimes	
Operating Frequency of Test Sample:	2405 to 2481 M⊦	Iz	
6 dB Bandwidth:	900 kHz		
Supply Voltage:	3.6 Vdc		
User Frequency Adjustment:	Software controll	ed	

Description of EUT

The Active TracBat (mileage counter) operates by sending out a GFSK DSSS data stream which encodes the mileage and other pertinent data at a 1 MBit rate using a 64 bit PN sequence.

Section 3. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 15.247(a)(2)
TESTED BY: David Light	DATE: 21 Dec 2006

Test Results: Complies.

Measurement Data: See 6 dB BW plot

Measured 6 dB bandwidth:

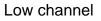
900 KHZ

Test Conditions:	45	%RH		
	22	°C		

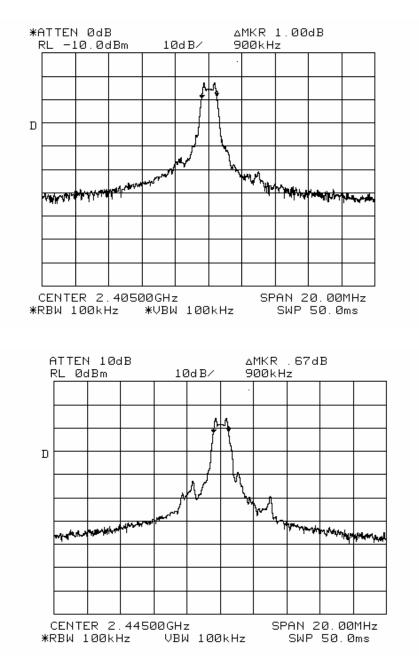
Measurement Uncertainty: +/-1x10⁻⁷ ppm

Test Equipment Used: 1464-1016-1484-1485-993

Test Data – Occupied Bandwidth

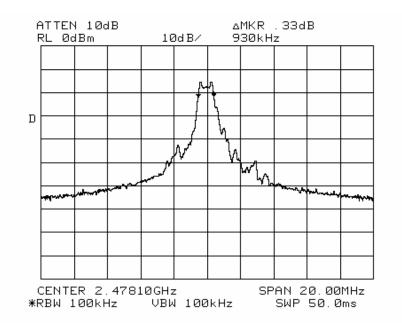


Mid Channel



Test Data – Occupied Bandwidth

High Channel



Section 4. Maximum Peak Output Power

NAME OF TEST: Maximum Peak Output power	PARA. NO.: 15.247(b)(3)
TESTED BY: David Light	DATE: 21 Dec 2006

Test Results: Complies.

Measurement Data: Refer to attached data

 Test Conditions:
 45
 %RH

 22
 °C

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1464-1484-1485-1016-993

This device was tested at +/- 15% input power per 15.31(e), with no variation in
output power.

For battery powered equipment, the device was tested with a fresh battery per 15.31(e).

The device was tested on three channels per 15.31(I).

 \square The device was tested on three orthogonal axis'.

Test Data – Peak Power

Frequency	Meter Reading	Substitution Level	Pre-Amp Gain	Substitution Antenna Gain	EIRP	Limit	Margin	Polarity	Comments
	Keauing	Level	Gam	Antenna Gam					
(MHz)	(dBm)	(dBm)	(dB)	(dBd)	(dBm)	(dBm)	(dB)		
									RBW=VBW=1 MHz
									High Channel
2481	-13.7	-11.6	32.8	7.8	-3.8	36.0	-39.8200	V	
2481	-18.0	-14.0	32.8	7.8	-6.2	36.0	-42.2200	Н	
									Mid Channel
2445	-15.8	-13.7	32.8	7.8	-5.9	36.0	-41.9000	V	
2445	-19.0	-15.0	32.8	7.8	-7.2	36.0	-43.2000	Н	
									Low Channel
2405	-15.7	-13.6	32.8	7.8	-5.8	36.0	-41.8000	V	
2405	-18.9	-14.9	32.8	7.8	-7.1	36.0	-43.1000	Н	
Notes:									

Section 5 Spurious Emissions

NAME OF TEST: Spurious Emissions at Antenna Terminals	PARA. NO.: 15.247 (d)
TESTED BY: David Light	DATE: 21 Dec 2006

Test Results: Complies.

Measurement Data: See attached plots.

 Test Conditions:
 45
 %RH

 22
 °C

Measurement Uncertainty: +/-3.6 dB

Test Equipment Used: 1464-1484-1485-1016-993791-759-1195

Notes:

For handheld devices, the EUT was tested on three orthogonal axis'

The device was tested from 30 MHz to the tenth harmonic of the highest fundamental frequency per 15.33

The device was tested on three channels per 15.31(I).

No emissions were detected within 20 dB of the specification limit therefore none are reported per 15.31(o). Band edge data is presented below.

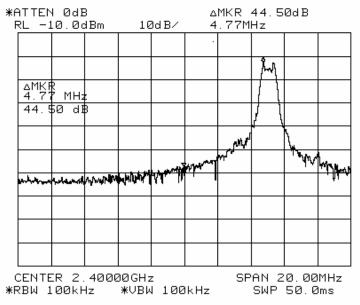
Analyzer Settings:

RBW=VBW=100 kHz below 1000 MHz RBW=VBW=1 MHz above 1000 MHz Peak Detector

Duty cycle correction = $20 \log (20.796/100) = -13.6 dB$ See plots on page 16

Test Data – Spurious Emissions at Antenna Terminals

Lower Band Edge



Test Data – Spurious Emissions

Low Channel

Meas	surement Dat					Tes	t Distance	e: 3 Meter	S		
			Cable	Cable	Pre-A	Horn					
#	Freq	Rdng	Duty				Dist	Corr	Spec	Margin	Polar
			Cycle								
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
	4804.670	59.0	+1.0	+3.2	-32.5	+33.1	+0.0	63.8	74.0	-10.2	Vert
	Peak – Lo C	hannel									
	6400.826	47.8	+1.3	+3.9	-30.9	+35.0	+0.0	57.1	74.0	-16.9	Vert
	Peak – Lo C	hannel									
	7210.145	54.8	+1.2	+3.9	-32.1	+35.8	+0.0	63.6	74.0	-10.4	Vert
	Peak – Lo C	hannel									
	1601.333	60.2	+0.6	+1.9	-32.0	+25.3	+0.0	42.4	54.0	-11.6	Vert
	Avg. – Lo Cł	nannel	-13.6								
	4804.670	59.0	+1.0	+3.2	-32.5	+33.1	+0.0	50.2	54.0	-3.8	Vert
	Avg. – Lo Cł		-13.6								
	6400.826	47.8	+1.3	+3.9	-30.9	+35.0	+0.0	43.5	54.0	-10.5	Vert
	Avg. – Lo Cł	nannel	-13.6								
	7210.145	54.8	+1.2	+3.9	-32.1	+35.8	+0.0	50.0	54.0	-4.0	Vert
	Avg. – Lo Cł	nannel	-13.6								
	4804.670	60.0	+1.0	+3.2	-32.5	+33.1	+0.0	64.8	74.0	-9.2	Horiz
Peak – Lo channel											
	1600.167	54.3	+0.6	+1.9	-32.0	+25.2	+0.0	36.4	54.0	-17.6	Horiz
	Avg. – Lo Cł	nannel	-13.6								
	4804.670	60.0	+1.0	+3.2	-32.5	+33.1	+0.0	51.2	54.0	-2.8	Horiz
	Avg. – Lo Cł	nannel	-13.6								

Test Data – Spurious Emissions

Mid Channel

Meas Data	surement :						Tes	t Distance	e: 3 Meter	S	
#	Freq	Rdng	Cable Duty Cycle	Cable	Pre-A	Horn	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
	4887.101 Mid Ch - Pea	59.2 ak	+1.0	+3.3	+32.6	+33.4	+0.0	64.3	74.0	-9.7	Vert
	7337.538 Mid Ch - Pea	53.3 ak	+1.2	+4.0	+32.3	+35.8	+0.0	62.0	74.0	-12.0	Vert
	4887.101 Mid Ch - Ave	59.2 erage	+1.0 -13.6	+3.3	+32.6	+33.4	+0.0	50.7	54.0	-3.3	Vert
	7337.538 Mid Ch – Av	53.3 erage	+1.2 -13.6	+4.0	+32.3	+35.8	+0.0	48.4	54.0	-5.6	Vert
	4887.101 Mid Ch – Pe	61.5 ak	+1.0	+3.3	+32.6	+33.4	+0.0	66.6	74.0	-7.4	Horiz
	7330.043 Mid Ch – Pe	47.8 ak	+1.2	+4.0	+32.3	+35.8	+0.0	56.5	74.0	-17.5	Horiz
	4887.101 Mid Ch – Av	61.5 erage	+1.0 -13.6	+3.3	+32.6	+33.4	+0.0	53.0	54.0	-1.0	Horiz
	7330.043 Mid Ch - Ave	47.8 erage	+1.2 -13.6	+4.0	+32.3	+35.8	+0.0	42.9	54.0	-11.1	Horiz

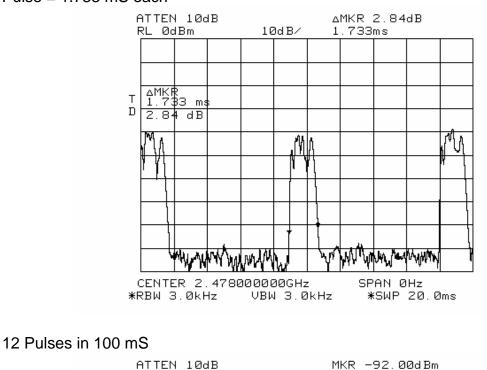
Test Data – Spurious Emissions

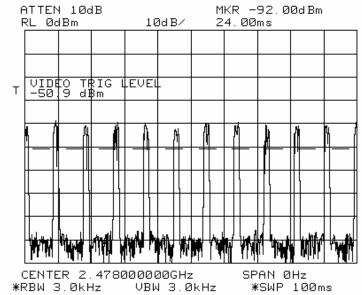
High Channel

Meas	surement Dat	a:					Tes	t Distance	e: 3 Meter	S	
			Cable	Cable	Pre-A	Horn					
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
	1651.757	60.2	+0.7	+1.9	+31.9	+25.7	+0.0	56.6	74.0	-17.4	Vert
	Hi Ch - Peak	-									
	2483.500	60.0	+0.8	+2.3	+32.8	+29.0	+0.0	59.3	74.0	-14.7	Vert
	Hi Ch – Peal								Band edg		
	4947.050	53.3	+1.0	+3.3	+32.6	+33.6	+0.0	58.6	74.0	-15.4	Vert
	Hi Ch – Peal				~ -						
	7434.956	48.2	+1.2	+4.1	+32.5	+35.9	+0.0	56.9	74.0	-17.1	Vert
	Hi Ch – Peal		. 0 7	. 4 0				40.0	54.0	44.0	Mart
	1651.757	60.2	+0.7	+1.9	+31.9	+25.7	+0.0	43.0	54.0	-11.0	Vert
	Hi Ch - Avera	0	-13.6					45 7	F 4 0	0.0	Vort
	2483.500	60.0	+0.8	+2.3	+32.8	+29.0	+0.0	45.7	54.0	-8.3	Vert
	Hi Ch – Aver 4947.050	age 53.3	-13.6 +1.0	+3.3	+32.6	+33.6	+0.0	45.0	Band edg 54.0	-9.0	Vert
	4947.050 Hi Ch – Aver		-13.6	+3.3	+32.0	+33.0	+0.0	45.0	54.0	-9.0	ven
	7434.956	48.2	+1.2	+4.1	+32.5	+35.9	+0.0	43.3	54.0	-10.7	Vert
	Hi Ch – Aver		-13.6	T H. I	+52.5	+55.5	+0.0	40.0	54.0	-10.7	ven
	4947.050	59.2	+1.0	+3.3	+32.6	+33.6	+0.0	64.5	74.0	-9.5	Horiz
	Hi Ch – Peal			10.0	102.0	100.0	. 0.0	01.0	7 1.0	0.0	110112
	1652.750	56.8	+0.7	+1.9	+31.9	+25.7	+0.0	39.6	54.0	-14.4	Horiz
	Hi Ch – Aver		-13.6						00		
	4947.050	59.2	+1.0	+3.3	+32.6	+33.6	+0.0	50.9	54.0	-3.1	Horiz
	Hi Ch - Avera		-13.6		-				-	-	

Duty Cycle







Duty cycle correction = 20 log (20.796/100) = -13.6 dB

Radiated Photographs



Section 6. Peak Power Spectral Density

NAME OF TEST: Peak Power Spectral Density	PARA. NO.: 15.247(e)
TESTED BY: David Light	DATE: 21 Dec 2006

Test Results: Complies.

Measurement Data: See attached data..

 Test Conditions:
 45
 %RH

 22
 °C

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1464-1484-1485-1016-993

Note: This test was performed radiated.

Peak Power Spectral Density

Frequency (MHz)	Meter Reading (dBm)	Substitution Level (dBm)	I	Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	EIRP (dBm)		Polarity	Comments
(MHZ)	(UBIII)	(UBIII)		(ub)	(ubu)	(шып)			
									Density
									RBW=VBW=3 kHz
									Span = 1 MHz
									Sweep = 350 seconds
2478	-27.5	-25.4		32.8	7.8	-17.6		V	High Channel
2445	-27.8	-25.7		32.8	7.8	-17.9		V	Mid Channel
2405	-29.2	-27.1		32.8	7.8	-19.3		V	Low Channel
Notes:									

Section 7. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1484	Cable	Storm PR90-010-072	N/A	10/02/06	10/02/07
1485	Cable	Storm PR90-010-216	N/A	10/02/06	10/02/07
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	04/20/06	04/20/07
791	PREAMP, 25dB	Nemko USA, Inc. LNA25	398	04/20/06	04/20/07
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	02/13/06	02/13/07
1195	ANTENNA, BICONICAL	A.H. SYSTEMS SAS-200/542	235	02/10/06	02/10/07
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/01/05	08/02/07

Nemko USA, Inc.

EQUIPMENT: Active TracBat

ANNEX A - TEST DETAILS

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

Minimum Standard: §15.207 Conducted limits.

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 mH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Conducted	Limit (dBmV	')
Emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
	6.0. 6	

* Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 mV within the frequency band 535-1705 kHz, as measured using a 50 mH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits as provided in §15.205 and §§15.209, 15.221, 15.223, 15.225 or 15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provision for, the use of battery chargers which permit operating while charging, AC adaptors or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

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NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(2)

Minimum Standard: The minimum 6 dB bandwidth shall be at least 500 kHz

Nemko USA, Inc.

NAME OF TEST: Maximum Peak Output Power PA
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Minimum Standard:The maximum peak output power 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.Systems operating in the 2400-2483.5 MHz band that are
used exclusively for fixed, point to point operation may
employ transmitting antennas with directional gain greater
than 6 dBi provided the maximum peak output power is
reduced by 1 dB for every 3 dB that the directional gain of
the antenna exceed 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operation may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

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. The dBi gain of the antenna(s) employed shall be reported.

Substitution Antenna Method for Integral Antennas:

The peak field strength of the carrier is measured in a worst-case configuration with a RBW > 5 times the occupied bandwidth of the transmitted waveform. For cases where the RBW of the test instrument is not sufficient, the power is measured using a peak power meter instead of the spectrum analyzer.

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.

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

PARA. NO.: 15.247(a)(2)

Minimum Standard:Systems using digital modulation techniques may
operate in the 902-928 MHz, 2400-2483.5 MHz, and
5725-5850 MHz bands. The minimum 6 dB bandwidth
shall be at least 500 kHz.

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW = VBW = 100 kHz. Span: Sufficient to display 6 dB bandwidth LOG dB/div.: 10 dB Sweep: Auto

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

NAME OF TEST: Spurious Emissions(conducted) PARA. NO.: 15.247(d)

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, 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 (μV/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 IS SEARCHED TO THE 10th HARMONIC OF THE HIGHEST FREQUENCY GENERATED IN THE EUT.

Method Of Measurement:

30 MHz - 10th harmonic plot RBW: 100 kHz VBW: 300 kHz Sweep: Auto Display line: -20 dBc

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, 2400 MHz, or 5725 MHz Marker: Peak of fundamental emission Marker ∆: Peak of highest spurious level below center frequency.

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, 2483.5 MHz, or 5850 MHz Marker: Peak of fundamental emission Marker ∆: Peak of highest spurious level above center frequency.

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

	NAME OF TEST:	Radiated Spurious Emissions	PARA. NO.: 15.247(c)
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Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, 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 (μV/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

15.205 Restricted Bands			
MHz	MHz	MHz	GHz
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.125-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	1718		

15 205 Restricted Bands

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

NAME OF TEST: Transmitter Power Density		PARA. NO.: 15.247(d)
Minimum Standa		wer density averaged over any 1 second greater than +8 dBm in any 3 kHz
Method Of Measurement: The spectrum analyzer is set as follows:		m analyzer is set as follows:
	RBW: 3 kHz VBW: >3 kHz Span: => measure Sweep: Span(kHz) rate is 1500/3 = 500 LOG dB/div.: 2 dB	/3 (i.e. for a span of 1.5 MHz the sweep
Note:	analyzer is reduced until the measurement data is norm	Ine spacing =< 3 kHz, the RBW of the he spectral lines are resolved. The nalized to 3 kHz by summing the power al lines within a 3 kHz band in linear

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.

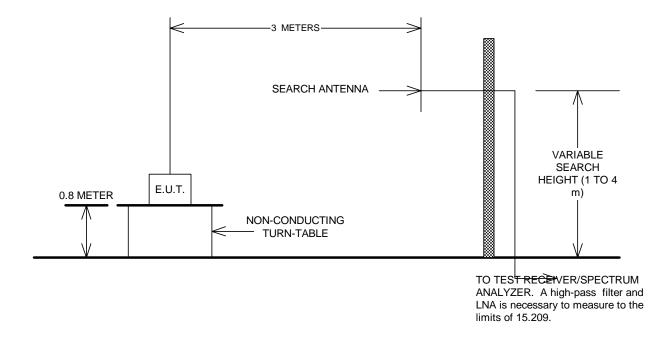
Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

Nemko USA, Inc.

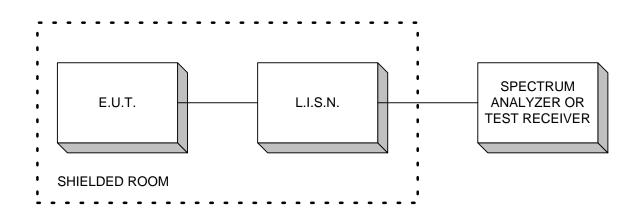
EQUIPMENT: Active TracBat

ANNEX B - TEST DIAGRAMS

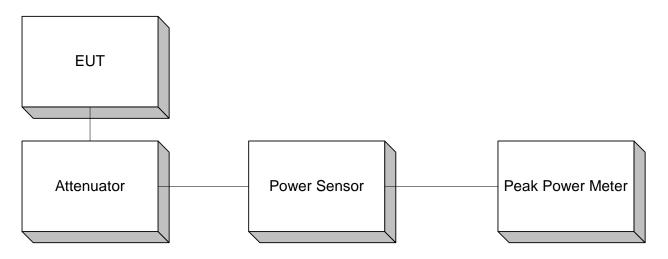
Test Site For Radiated Emissions



Conducted Emissions



Peak Power At Antenna Terminals



Note: A spectrum analyzer may be substituted for Peak Power Meter given that the measurement bandwidth is sufficient to capture the 60 dB bandwidth of the transmitter.

Minimum 6 dB Bandwidth Peak Power Spectral Density Spurious Emissions (conducted)

