

TEST REPORT

For

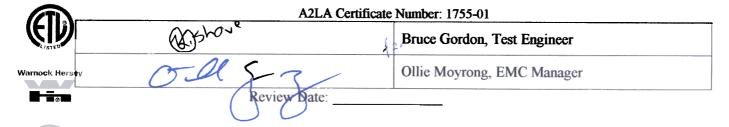
SPORTSMAN'S MARKET, INC.

Scanning Receiver Model: SP-125 FCC ID: DY7RT2013

> Job # 3036423 Report # 30364231

Date of Testing: December 26-27, 2002 Date of Report: December 29, 2002







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FCC Part 15 Scanning Rx Cert















FCC ID: DY7RT2013

Date of Test: December 26-27, 2002

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Sportsman's Market, Inc., Model No: SP-125

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1.0 General Description

1.1 Product Description

The Sportsman's Market, Inc, Model No.: SP-125 is a VHF Aircraft/AM/FM Broadcast Band Programmable Handheld Scanning Receiver.

Please refer to the attached specifications sheets in Appendix A for more details.

A pre-production version of the sample was received on December 25, 2002 in good condition. As declared by the Applicant, it is identical to production units.

1.2 Related Submittal(s) Grants

This is a single Application for Certification of a scanning receiver.

1.3 Test Methodology

Both AC mains line-conducted (if applicable) and radiated emission measurements were performed according to the procedures in ANSI C63.4 (1992). All radiated measurements were performed in a semi-anechoic chamber. Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Data Section" of this Application.

1.4 Test Facility

The test site and conducted measurement facility used to collect the radiated data is Site 1 (10-m semi-anechoic chamber). This test facility and site measurement data have been fully placed on file with the FCC and A2LA accredited.

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1.5 Summary of Test Results

Model: SP-125 FCC ID: DY7RT2013

TEST	REFERENCE	RESULTS
Radiated Emission	15.109	Complies
AC Lie Conducted Emission	15.107	Complies
Antenna Conducted Emission	15.111	Complies
FCC Part 15. 121 Requirement	15.121	Complies *

^{*} See File "FCC 15.121"



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2.0 System Test Configuration

2.1 Justification

The tests were performed according to the test procedure as outlined in CFR47 Part 15.31 and in ANSI C63.4.

For emission testing, the equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). During testing, all cables were manipulated to produce worst-case emissions.

For the measurements, the EUT is placed on top of a non-conductive table. If the EUT attaches to peripherals, they are connected and operational (as typical as possible).

For radiated emission measurements, the signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. All readings are extrapolated back to the equivalent three-meter reading using inverse scaling with distance if measured at a closer distance.

2.2 EUT Exercising Software

The unit was setup to receive continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.

2.3 Mode of Operation

The EUT was tested in two modes and the worst-case emission was recorded:

Test Mode 1: The EUT was set to constantly receive at a particular frequency (1 near the top, 1 near the middle, and 1 near the bottom of each band).

Test Mode 2: The EUT was set to constantly scan and receive a particular band.

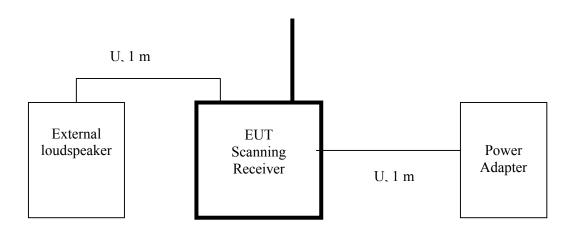


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2.4 Support Equipment List and Description

None. The EUT was tested as a stand-alone device.

2.5 Equipment Setup Block Diagram



2.6 Equipment Modification

Any modifications installed previous to testing by Sportsman's Market, Inc., will be incorporated in each production model sold/leased in the United States.

Intertek Testing Services installed no modifications.

Sportsman's Market, Inc., Model No: SP-125

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3.0 Emission Test Results

AC line conducted emission measurements were performed from 0.15 MHz to 30 MHz. Analyzer resolution is 10 kHz or greater.

Radiated emission measurements and antenna conducted emission measurements were performed from 30 MHz to 2000 MHz. Analyzer resolution is 100 kHz or greater for 30 MHz to 1000 MHz, 1 MHz for frequencies above 1000 MHz.

Data is included of the worst-case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.



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3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG + DF

Where $FS = Field Strength in dB(\mu V/m)$

RA = Receiver Amplitude (including preamplifier) in $dB(\mu V)$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB(1/m)

AG = Amplifier Gain in dB

DF = Distance Factor in dB

Assume a receiver reading of 52.0 dB(μ V) is obtained. The antennas factor of 7.4 dB(1/m) and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving field strength of 32 dB(μ V/m). This value in dB(μ V/m) was converted to its corresponding level in μ V/m.

 $RA = 52.0 dB(\mu V)$

AF = 7.4 dB(1/m)

CF = 1.6 dB

AG = 29.0 dB

DF = 0 dB

 $FS = 52 + 7.4 + 1.6 - 29.0 + 0 = 32 dB(\mu V/m)$

Level in $\mu V/m = Common Antilogarithm [(32 dB<math>\mu V/m)/20] = 39.8 \mu V/m$

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3.2 Radiated Emission Data

Tested By:	Bruce Gordon
Test Date:	December 26, 2002

Temperature	(°C)	21.5°C
Relative Humidity	(%)	45.0%

The results on the following page(s) were obtained when the device was tested in the condition described in Sections 2 and 3.

Results:	Complies by 10.5 dB at 139.4 MHz
	(Tuned frequency 118 MHz,)

All other emissions are at least 10 dB below the limit.

Sportsman's Market, Inc., Model No: SP-125

FCC ID: DY7RT2013 Date of Test: December 26-27, 2002

Job No.: 3036423

Company: GRE

Model: SCANNER SP 125 AM\FM RECEIVER

Engineer: Bruce Gordon

Date: 12/26/02

FCC Part 15.109 Class B Radiated Emissions Radiated Emissions at Local Oscillator frequencies

Test Mode: Rx in Air BAND Receiver Antenna Preamp Cable Corrected Tuned L.O. Antenna Antenna Margin Limit Frequency Frequency Location Polarization Reading Factor Loss Reading At 3 m H/V (dB) (dBuV/m) (dBuV/m)(MHz) (MHz) (m) (dBuV) (dB/m)(dB) (dB) 118.000 139.400 3.0 V 52.1 9.2 32.3 4.0 33.0 43.5 -10.5 130.450 V 32.3 24.1 43.5 151.850 3.0 41.2 11.1 4.1 -19.4 142.975 164.375 3.0 V 38.5 9.1 32.3 4.1 19.4 43.5 -24.1 118.000 139.400 Η 51.2 8.9 32.3 4.0 31.8 43.5 3.0 -11.7 130.450 151.850 3.0 Η 44.1 10.2 32.3 4.1 26.1 43.5 -17.4 Η -21.9 142.975 164.375 3.0 41.0 8.8 32.3 4.1 21.6 43.5

	Test Mode: Rx in FM BAND													
Tuned	L.O.	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin				
Frequency	Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m					
(MHz)	(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)				
88.000	98.700	3.0	V	41.4	7.4	32.3	3.9	20.4	43.5	-23.1				
98.000	108.700	3.0	V	41.3	7.5	32.3	3.9	20.4	43.5	-23.1				
108.000	97.300	3.0	V	34.5	7.4	32.3	3.9	13.5	43.5	-30.0				
88.000	98.700	3.0	Н	37.7	7.4	32.3	3.9	16.7	43.5	-26.8				
98.000	108.700	3.0	Н	39.2	7.0	32.3	3.9	17.8	43.5	-25.7				
108.000	97.300	3.0	Н	30.3	7.4	32.3	3.9	9.3	43.5	-34.2				



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FCC Part 15.109 Class B Radiated Emissions Radiated Emissions other than at Local Oscillator frequencies

		Test	t Mode: R	x in AIR	BAND @) 118 MH	Z		
Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
458.178	3.0	V	40.3	16.8	32.3	4.9	29.7	46.0	-16.3
687.009	3.0	V	30.9	19.9	32.6	5.4	23.6	46.0	-22.4
557.592	3.0	V	29.5	18.9	32.5	5.1	21.0	46.0	-25.0
418.199	3.0	V	31.2	16.1	32.3	4.9	19.9	46.0	-26.1
696.993	3.0	Н	29.3	20.9	32.5	5.1	22.8	46.0	-23.2
278.799	3.0	Н	37.7	13.1	32.2	4.5	23.1	46.0	-22.9
418.199	3.0	Н	28.4	17.1	32.3	4.9	18.1	46.0	-27.9
		Test 1	Mode: Rx	in AIR B	SAND @	130.45 M	Hz		
Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
455.548	3.0	V	36.8	16.7	32.3	4.9	26.1	46.0	-19.9
759.252	3.0	V	26.4	20.9	32.5	5.5	20.3	46.0	-25.7
303.700	3.0	V	33.6	13.4	32.2	4.7	19.5	46.0	-26.5
303.700	3.0	Н	36.2	14.1	32.2	4.7	22.8	46.0	-23.2

	Test Mode: Rx in AIR BAND @ 142.975 MHz											
Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin			
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m				
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
493.127	3.0	V	32.6	18.3	32.4	5.0	23.5	46.0	-22.5			
328.750	3.0	V	33.2	14.3	32.2	5.0	20.3	46.0	-25.7			
328.750	3.0	Н	33.8	15.3	32.2	5.0	21.9	46.0	-24.1			

Test Mode: Rx in FM BAND @ 88 MHz

Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
458.182	3.0	V	40.4	16.8	32.3	4.9	29.8	46.0	-16.2
458.179	3.0	Н	35.1	17.9	32.3	4.9	25.6	46.0	-20.4
57.654	3.0	Н	30.6	5.0	32.4	3.8	7.0	40.0	-33.0



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Test Mode: Rx in FM BAND @ 98 MHz

Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
458.182	3.0	V	41.3	16.8	32.3	4.9	30.7	46.0	-15.3
458.179	3.0	Н	35.3	17.9	32.3	4.9	25.8	46.0	-20.2

Test Mode: Rx in FM BAND @ 108 MHz

Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
458.182	3.0	V	40.4	16.8	32.3	4.9	29.8	46.0	-16.2
458.179	3.0	Н	35.3	17.9	32.3	4.9	25.8	46.0	-20.2

Test Mode: Rx in AM BAND @ 530 kHz

Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
458.182	3.0	V	39.9	16.8	32.3	4.9	29.3	46.0	-16.7
744.542	3.0	V	25.7	20.6	32.5	5.5	19.3	46.0	-26.7
801.819	3.0	V	27.3	21.1	32.4	5.8	21.8	46.0	-24.2
458.179	3.0	Н	35.3	17.9	32.3	4.9	25.8	46.0	-20.2

		Test	Mode: Rx	in AM BA	AND @ 1	1060 kI	Hz		
Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
458.182	3.0	V	40.4	16.8	32.3	4.9	29.8	46.0	-16.2
458.179	3.0	Н	35.3	17.9	32.3	4.9	25.8	46.0	-20.2

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Test Mode: Rx in AM BAND @ 1.6 MHz

Measured	Antenna	Antenna	Receiver	Antenna	Preamp	Cable	Corrected	Limit	Margin
Frequency	Location	Polarization	Reading	Factor		Loss	Reading	At 3 m	
(MHz)	(m)	H/V	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
458.182	3.0	V	40.4	16.8	32.3	4.9	29.8	46.0	-16.2
57.275	3.0	V	30.2	5.4	32.4	3.7	6.9	40.0	-33.1
458.179	3.0	Н	35.3	17.9	32.3	4.9	25.8	46.0	-20.2
57.275	3.0	V	33.0	5.0	32.4	3.7	9.3	40.0	-30.7

Notes: Negative signs (-) in the Margin column signify levels below the limit.

All readings are peak measurements.

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3.3 AC Line Conducted Emission Data

Tested By:	Bruce Gordon
Test Date:	December 26, 2002

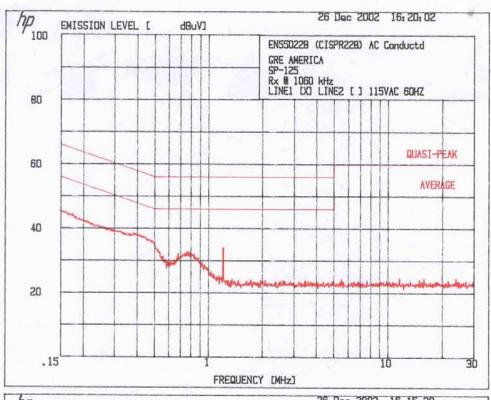
Temperature	(°C)	22.0° C
Relative Humidity	(%)	45.5%

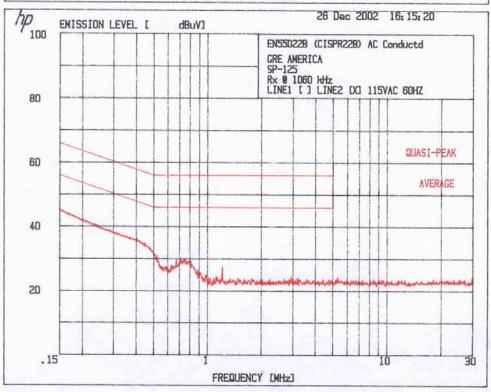
The results on the following page(s) were obtained when the device was tested in the condition described in Sections 2 and 3.

8.0 dB	aplies by 8.0 dB	Results:
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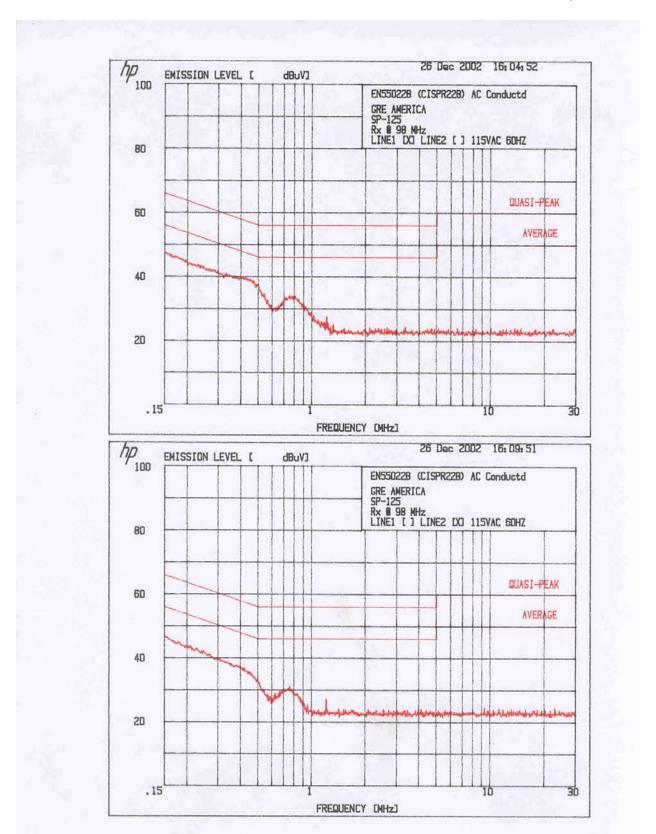
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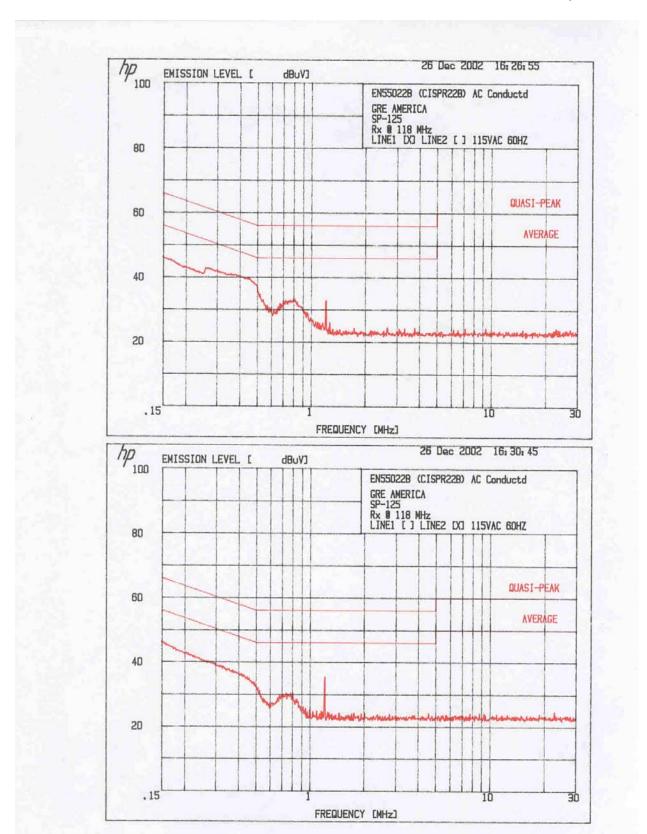


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3.4 Antenna Conducted Emission Data

Tested By:	Bruce Gordon
Test Date:	December 27, 2002

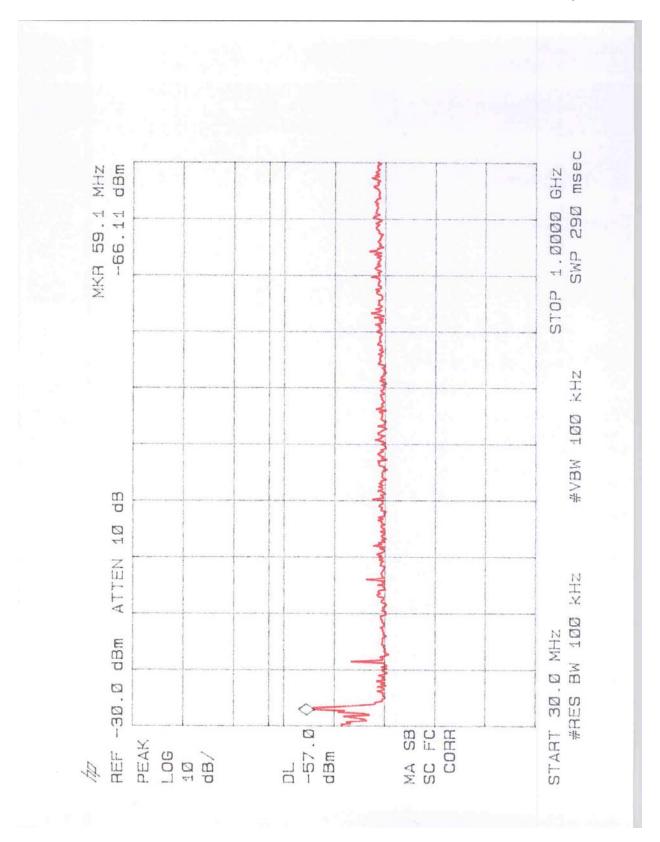
Temperature	(°C)	22.5°C
Relative Humidity	(%)	45.0%

The results on the following page(s) were obtained when the device was tested in the condition described in Sections 2 and 3.

Results:	Complies by 7.0 dB	
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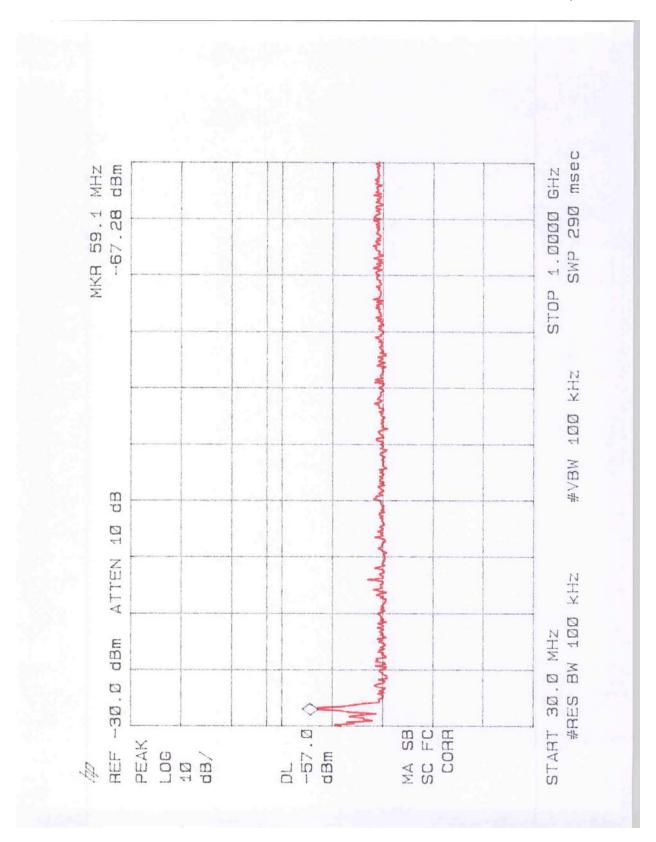


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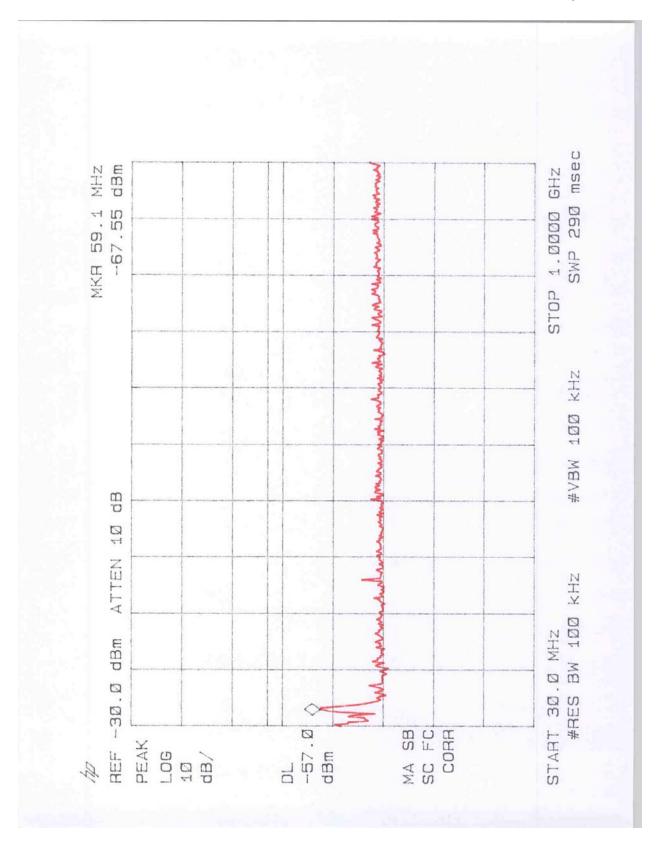


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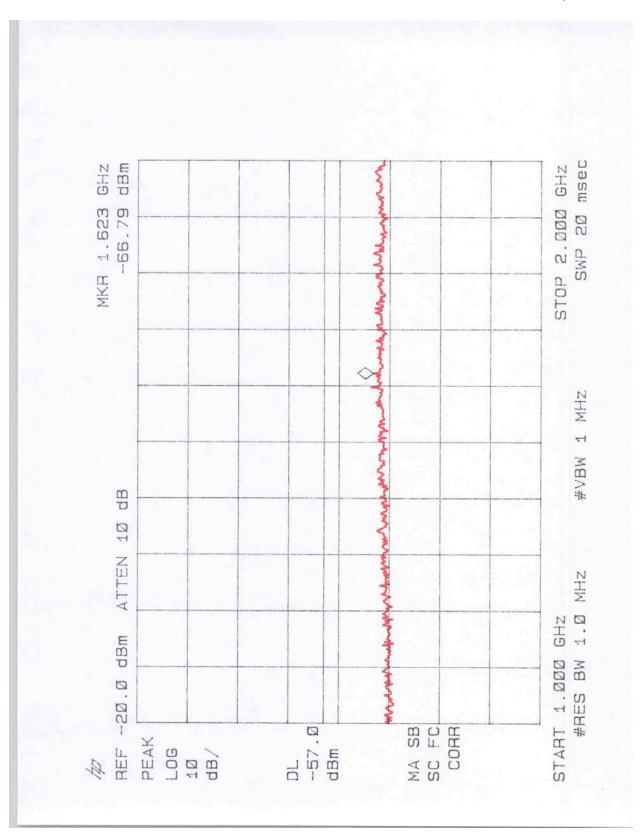


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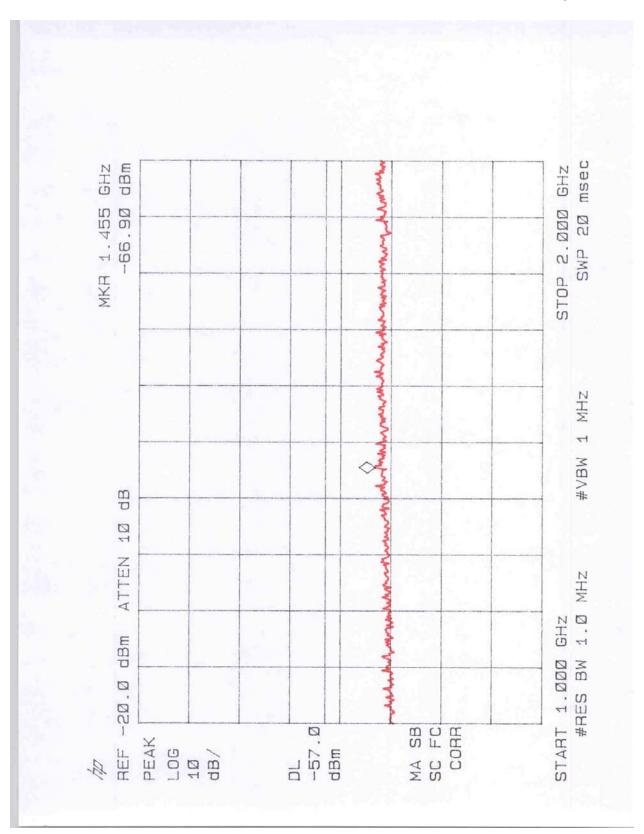


FCC ID: DY7RT2013



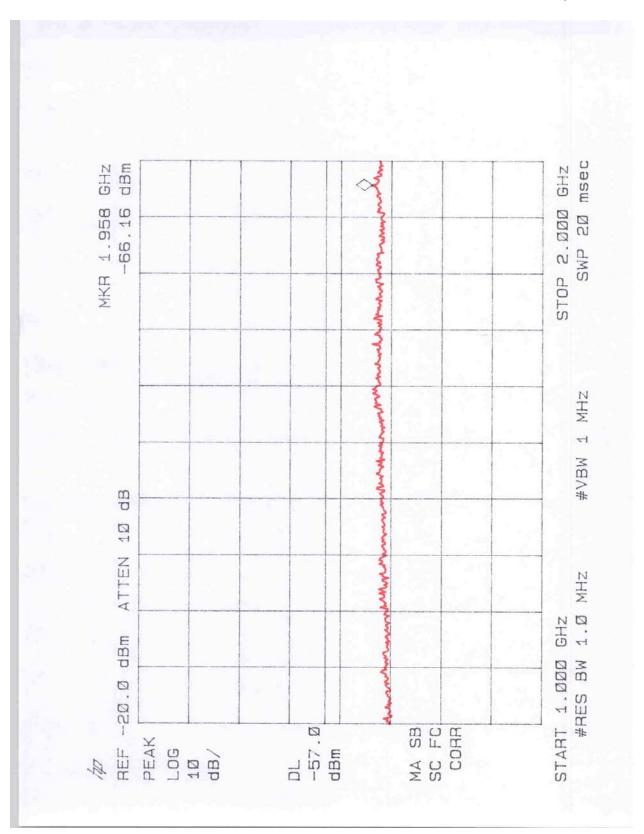


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4.0 List of Test Equipment

Measurement equipment used for emission compliance testing utilized the equipment on the following list.

Equipment	Manufacturer	Model/Type	Serial #	Cal Int	Cal Due
BI-Log Antenna	EMCO	3143	9509-1160	12	9/19/03
Horn Antenna	EMCO	3115	9170-3712	12	6/02/03
Pre-Amplifier	ITS	ITSPA-1	44156	12	3/16/03
RF Filter Section	Hewlett Packard	85460A	3448A00267	12	7/16/03
EMI Receiver	Hewlett Packard	8546A	3710A00373	12	7/16/03
Spectrum Analyzer w/8650	Hewlett Packard	8568B	1912A0053	12	11/20/03
QP Adapter			2521A01021		
Spectrum Analyzer	Hewlett Packard	8591EM	3801A01250	12	8/07/03
LISN	FCC	FCC-LISN-50-50-M-H	2012	12	1/04/03
Pulse Limiter	Hewlett Packard	11947A	2820A00184	12	9/03/03

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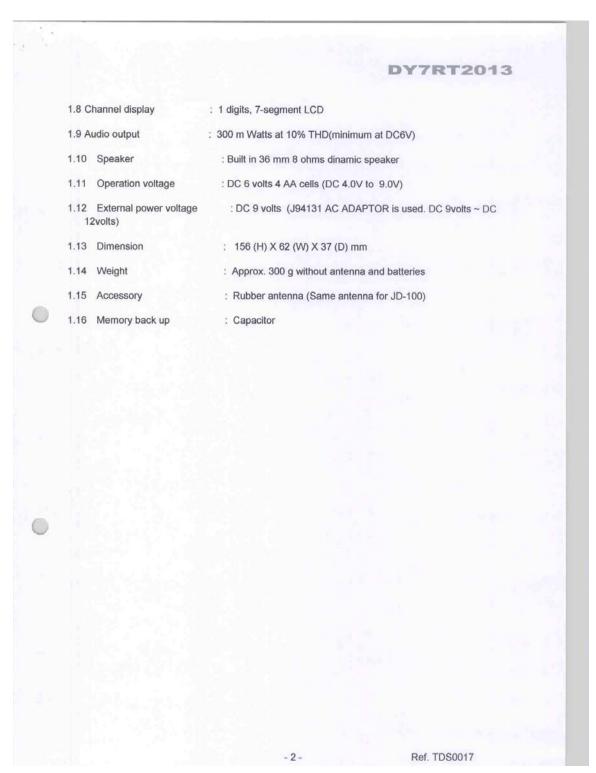
5.0 Appendix A

DY7RT2013 SPECIFICATIONS SUBJECT: VHF AIRCRAFT/ AM/FM BROADCAST BAND PROGRAMMABLE HANDHELD RECEIVER MODEL SP-125 (Label Name is "SPORTY'S HANGAR RADIO") 1. GENERAL 1.1 Programmable channel : 5 memory channels for VHF Aircraft band 0 memory channels for AM Broadcast band 0 memory channels for FM Broadcast band : PLL synthesizer 1.2 Receiving system VHF Aircraft band: Dual conversion (Local oscillater is upper side of the receiving frequency), 1st IF=21.4 MHz, 2nd IF=455 kHz AM Broadcast band : Single superheterodyne (Local oscillater is upper side of the receiving frequency), IF=450 kHz FM Broadcast band: Single superheterodyne (Local oscillater is upper side of the receiving frequency), IF=10.7 MHz 1.3 Frequency range Band Frequency Step Mode VHF Aircraft band : 118 - 143 MHz 8.333 kHz AM AM Broadcast band: 530 - 1630 kHz 10 kHz AM FM Broadcast band: 88 - 108 MHz 100 kHz 1.4 Priority channel 1) When listening to VHF Aircraft band: The 1st setting channel of a programmable channel is a most High priority channel. Priority 1CH is checked once in 1 seconds. 2) When listening to AM or FM Broadcast band Interrupt preferentially the priority channel of VHF 1, 2, 3, 4, or 5. Also in inside, VHF #1 interrupts priority most from 2, 3, 4 or 5. A priority channel is five of VHF 1, 2, 3,4 or 5. 1.5 Scan speed : 8 channel/second 1.6 Priority check speed : 8 channel/second (AM/FM band) : Priority channel is checked once in 0.2 seconds. (VHF Aircraft band) 1.7 Frequency display : 6 digits, 7-segment LCD Ref. TDS0017



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			DY7R	T2013	
	2. ELECTRICAL		Nominal	Limit	
	2.1 Frequency range	: VHF Aircraft band 118	3-143 MHz		
	2.1 Trequency range	AM Broadcast		530-1630 kHz	
		FM Broadcast	band	88-108 MHz	
	2.2 Sensitivity	: VHF Aircraft band AM	1 uV	2 uV	
	FM: (S+N)/N = 20 dB	AM Broadcast band AM	10 uV	20 uV	
	DEV. : 45 kHz at 1 kHz		2 uV	5 uV	
	AM: (S+N)/N = 20 dB			7.77	
	MOD.: 60% at 1 kHz)				
	0.0 1	ARIE AL	10.15	0.5 15	
	2.3 Image ratio 1 st IF image	: VHF Aircraft band at 124 MHz	40 dB	35 dB	
		AM Broadcast band at 1000 kHz FM Broadcast band at 98 MHz	40 dB 30 dB	30 dB 20 dB	
		FIVI DI DAGCAST DATIG AT 90 MITZ	30 db	20 QB	
	2 nd IF image	; VHF High at 124 MHz	50 dB	40 dB	
	2.4 Squelch sensitivity (Band center	er)			
	Threshold: :V	HF Aircraft band (Volume control)	0.5 uV	2 uV	
	Tight: :	VHF Aircraft band (Volume control)	1.5 uV	1 uV	
	14	AM Broadcast band(Automatic)	20 uV	15 uV	
	1	FM Broadcast band (Automatic)	1 uV	5 uV	
	2.5 Selectivity VHF Aircraft band :	- 6 dB	± 7.5 kHz	± 5 kHz	
	AM Broadcast band	1 ±10 kHz	50 dB	40 dB	
	FM Broadcast ba	nd: - 6 dB	± 150 kHz	± 200 kHz	
		± 500 kHz	50 dB	40 dB	
	2.6 Spurious rejection	: VHF Aircraft band at 124 MHz	40 dB	30 dB	
	(Except Primary image)	AM Broadcast band at 1000 kHz		30 dB	
	(=:::==================================	FM Broadcast band at 100 MHz	40 dB	30 dB	
	2.7 IF rejection	: VHF Aircraft band at 124 MHz	70 dB	60 dB	
	2.7 II Tojoulon	AM Broadcast band at 1000 kHz	60 dB	50 dB	
		FM Broadcast band at 98 MHz	60 dB	50 dB	
	2.8 Signal to noise ratio		35 dB	30 dB	
	RF: 100 uV AM Broadcast band modulation	n : AM 60 % at 1 kHz			
	FM Broadcast band DEV. VHF Aircraft band modulation	: 45 kHz at 1 kHz on : AM 60 % at 1 kHz			
	2.9 Residual noise Vol. min. and Squelched	:	3 mV	5 mV	
	2.10 Scanning rate		8 ch/sec.	8 ch/sec	



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					Nominal	Limit	
	2.11	Search rate	1		8 steps/sec.	8 step/sec.	
	2.12	Scan and Search delay tim	e :		1.5 sec.	1.5-2.0 sec.	
	2.13		Maximum Audio o	output (T.H.D. 10	%):	350 mW	
	(5	300 mW 3 Ohms R Load, 1 kHz DC 6	10				
		RF input : 100 uV 60% mode					
	2.14	T.H.D. at 50 mW			3 %	8 %	
		RF input : 100 uV	/ith d kills sissal si	40001-1-			
		AM Broadcast band :AM 60 % FM Broadcast band :DEV. 4					
		VHF Aircraft band : AM 6	0 % with 1 kHz 1 kHz	z signal at 124M	lHz		
1	2.15	Audio frequency response	: 1	at -6 dB	300 Hz	200 Hz-400 Hz	
	,	RF input : 100 uV	/ ide	4000111-	2.0 kHz	1.5 kHz-3.0 kHz	
		AM Broadcast band :AM 60 % FM Broadcast band :DEV. 4					
		VHF Aircraft band : AM 6	0 % with 1 kHz 1 kHz	z signal at 124M	lHz		
		Current consumption at 9					
		8 Ohm internal speaker at 12 Squelched (PRIORITY MODE		90 mA TYP	170 mA	220 mA	
		Squelched (FM or AM band Squelched (AIR band)	1)		60mA TYP		
		oquoionea (/ inv buna)			JOHN TH		
	0.47	Mamon, hald time			d Hause	O.F.Haus	
	2.17	Memory hold time			1 Hours	0.5 Hour	
0		Birdies and step frequency when search	: Under discussion	on			
	V	nien search					
	2.19	Filter	: 21.4 MHz mond VHF Aircraft band		r and 455 kHz	ceramic filter for	
			450 kHz ceramic		dcast band		
			10.7 MHz ceramic	filter for FM Bro	adcast band		
	2.20	Antenna impedance	: 50 Ohms				
	2.21	Temperature range	: Test to specific	ation between	: +5°C-+35	°C	
			Operate (Need no	ot meet spec.)	: -10°C-+5	0°C	



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