

FCC PART 15, SUBPART C TEST REPORT

for

TRANSMITTER Model: RP NAVIGATOR FCC ID: IE3VP41XX02

Prepared for

INTERLINK ELECTRONICS 546 FLYNN ROAD CAMARILLO, CA 93012

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DATE: OCTOBER 11, 2002

	REPORT	APPENDICES			TOTAL		
	BODY	A	В	С	D	E	
PAGES	17	2	2	2	11	12	46

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GENERAL REPORT SUMMARY

This electromagnetic emission report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form except in full, without the written permission of Compatible Electronics.

This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: Transmitter

Model: RP NAVIGATOR

S/N: #1

Product Description: This is a Remote Control Transmitter used for PC based computers.

Modifications: The EUT was not modified during the testing.

Manufacturer: Interlink Electronics

546 Flynn Road

Camarillo, CA 93012

Test Date: September 16, 2002

Test Specifications: EMI requirements

FCC CFR Title 47, Part 15 Subpart C Test Procedure: ANSI C63.4: 2000.

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Radiated RF Emissions, 1.0 MHz to 9165 MHz	Complies with the limits of FCC CFR Title 47, Part 15 Subpart C 15.205 and 15.249.



1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Transmitter Model: RP NAVIGATOR. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2000. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined in FCC CFR Title 47, Part 15 Subpart C (15.205 and 15.249).



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 2337 Troutdale Drive, Agoura, California 91301.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Interlink Electronics

Ken Johnson Senior Hardware/Firmware Engineer

Compatible Electronics Inc.

Andre D. Khan Test Technician Joey J. Madlangbayan Test Engineer Ruby A. Hall Lab Manager

2.4 Date Test Sample was Received

The test sample was received on September 16, 2002.

2.5 Disposition of the Test Sample

The test sample remains at Compatible Electronics, Inc.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF Radio Frequency

EMI Electromagnetic Interference EUT Equipment Under Test

P/N Part Number S/N Serial Number HP Hewlett Packard

ITE Information Technology Equipment

CML Corrected Meter Limit

LISN Line Impedance Stabilization Network





3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
FCC CFR Title 47, Part 15 Subpart C.	FCC Rules – Intentional Radiators.
CISPR 16 1993	Specification for radio disturbance and immunity measuring apparatus and methods.
ANSI C63.4 2000	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.



4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

The EUT was set-up in a tabletop configuration in all the three Orthogonal Axes. The EUT was continuously transmitting.

The highest emissions were found when the EUT was running in the above configuration. The final radiated data was taken in this mode of operation. All initial investigations were performed with the spectrum analyzer in manual mode scanning the frequency range continuously. The EUT was setup and tested as shown in the photographs in Appendix D.



4.1.1 Cable Construction and Termination

There are no external cables connected to the EUT.

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5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT TYPE	MANUFACTURER	MODEL	SERIAL NUMBER
TRANSMITTER (EUT)	INTERLINK ELECTRONICS	RP NAVIGATOR	#1

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5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU- FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Spectrum Analyzer	Hewlett Packard	8566A	1904A00188	Jan. 28, 2002	Jan. 28, 2003
Quasi-Peak Adapter	Hewlett Packard	85650A	2043A00276	Jan. 28, 2002	Jan. 28, 2003
Preamplifier	Com Power	CPPA-102	01249	Mar. 25, 2002	Mar. 25, 2003
Biconical Antenna	Com Power	AB-100	01535	Mar. 26, 2002	Mar. 26, 2003
Log Periodic Antenna	Com Power	AL-100	01116	Mar. 06, 2001	Mar. 06, 2002
Horn Antenna	A. R. A.	DRG 118/A	1015	Dec. 18, 2001	Dec. 18, 2000
Microwave Amplifier	Com Power	PA-122	181915	Jun. 12, 2002	Jun. 12, 2003
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TT-106A	N/A	N/A	N/A
Computer	Hewlett Packard	Pavilion 4530	US91912022	N/A	N/A
Printer	Hewlett Packard	C6427B	MY066160TW	N/A	N/A
(Software) Radiated Emissions Transmitter Data Program	Compatible Electronics	DOC No: EMI_PART15T X-B-0-50	Rev. A	N/A	N/A
Loop Antenna	Com Power	AL-130	17067	Mar. 12, 2002	Mar. 12, 2003

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6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1.2 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

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7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The Spectrum Analyzer was used as a measuring meter along with the quasi-peak adapter. The data was collected with the Spectrum Analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the Spectrum Analyzer input stage, and the Spectrum Analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the Spectrum Analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 2000. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 0.15 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The EUT is a battery-powered unit; therefore this test was not performed.



7.1.2 Radiated Emissions Test

The spectrum analyzer was used as a measuring meter along with a quasi-peak adapter. A Preamplifier was used to increase the sensitivity of the instrument. The Spectrum Analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. This final reading is then recorded into the a Computer data recording program, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. The quasi-peak was used only for those readings, which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was 120 kHz.

Broadband loop, biconical, log periodic and horn antennas were used as transducers during the measurement. The loop antenna was used from 1 MHz to 30 MHz, the biconical antenna was used from 30 MHz to 300 MHz, the log periodic antenna was used from 300 MHz to 1 GHz and the horn antenna was used from 1 GHz to 9.165 GHz. The frequency spans were wide (1 to 30Mhz, 30 MHz to 88 MHz, 88 MHz to 216 MHz, 216 to 300 MHz, 300 MHz to 1 GHz and 1 GHz to 9.165 GHz) during preliminary investigations. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2000. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a test distance of 3 meters to obtain final test data. The test data is located in Appendix E.

Preliminary Testing and Monitoring:

Preliminary testing was done at a distance of 1 meter instead of 3 meters to determine the predominant harmonics and spurious emission frequencies. An open field test site was used for the preliminary investigations. Broadband antennas were used to scan large frequency bands while manipulating the X, Y and Z azimuth of the unit. If and when any frequency was found to be above 30 microvolts/meter level (at a 1 meter distance), this frequency was recorded as a significant frequency. All significant frequencies were further examined carefully at a frequency span on the spectrum analyzer while changing the antenna height and EUT orientation. The EUT was tested again at a test distance of 3 meters to obtain the final test data. The bandwidth of the spectrum analyzer was varied to ensure that pulse desensitization did not occur.

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7.1.3 RF Emissions Test Results

The fundamental and up to the 10^{th} harmonic emissions are within the specifications.

INTERLINK ELECTRONICS
REMOTE CONTROL TRANSMITTER

RADIATED EMISSIONS – SPURIOUS

The following bands were specifically scanned. Frequency Band 1 MHz – 9.165 GHz

No spurious emissions were found.

RF Energy From Transmitter in MHz at 3 meters ($\mu V/m$)

2.1735-2.1905	< 50	37.5-38.25	<100
4.125-1.128	< 50	73-74.6	<100
4.17725-4.17775	< 50	74.8-75.2	<100
4.20725-4.20775	< 50	108-121.94	<100
6.215-6.218	< 50	123-138	<150
6.26775-6.26825	< 50	149.9-150.05	<150
6.31175-6.31225	< 50	156.52-156.52	<150
8.291-8.294	< 50	162.01-167.17	<150
8.362-8.366	< 50	167.72-173.2	<150
8.37625-8.38675	< 50	240-285	< 200
8.41425-8.41475	< 50	322-335.4	< 200
12.29-12.293	< 50	399.9-410	< 200
12.51975-12.52025	< 50	608-614	< 200
12.57675-12.57725	< 50	960-1240	< 500
13.36-13.41	< 50	1300-1427	< 500
16.42-16.423	< 50	1435-1626.5	< 500
16.69475-16.69525	< 50	1645.5-1646.5	< 500
16.80425-16.80475	< 50	1660-1710	< 500
25.5-25.67	< 50	1718.8-1722.2	< 500



7.1.4 RF Emissions Test Results (Continued)

RF Energy From Transmitter in MHz at 3 meters ($\mu V/m$)

2200-2300	< 500	4500-5150	< 500
2310-2390	< 500	5350-5460	< 500
2483.5-2500	< 500	7250-7750	< 500
2655-2900	< 500	8025-8500	< 500
3260-3267	< 500	9000-9200	< 500
3332-3339	< 500		
3345.8-3358	< 500		
3600-4400	< 500		

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8. CONCLUSIONS

The Transmitter Model: RP NAVIGATOR meets all of the requirements of the FCC CFR, Title 47, Part 15, Subpart C 15.205 and 15.249.



APPENDIX A

LABORATORY ACCREDITATIONS



LABORATORY ACCREDITATIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200063-0

Voluntary Control Council for Interference - Registration Numbers: R-826, C-862, R-653 and C-669

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)

Conformity Assessment Body for the EMC directive under the US/EU MRA appointed by NIST.



APPENDIX B

MODIFICATIONS TO THE EUT



MODIFICATIONS TO THE EUT

There were no modifications made to the EUT during the test.



APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

Page C2



ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

TRANSMITTER Model: RP NAVIGATOR

There were no additional models covered under this report.



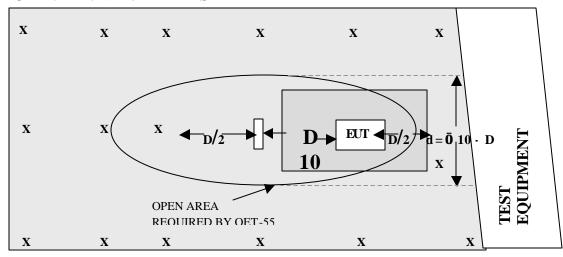
APPENDIX D

DIAGRAMS, CHARTS AND PHOTOS

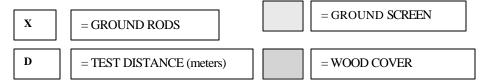


FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS





COM-POWER AL-130

ACTIVE LOOP ANTENNA

S/N: 17067

CALIBRATION DATE: MARCH 12, 2002

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(MHz)	(dB)	(MHz)	(dB)
0.009	11.3	1	10.8
0.01	11.3	2	11.2
0.02	10.5	3	10.9
0.03	12.1	4	10.8
0.04	11.6	5	11.4
0.05	10.2	6	11.4
0.06	10.6	7	11.1
0.07	10.3	8	10.9
0.08	10.0	9	11.5
0.09	9.9	10	11.0
0.1	9.9	12	10.3
0.2	7.5	14	10.2
0.3	10.0	15	10.1
0.4	10.0	16	10.1
0.5	10.0	18	10.2
0.6	10.1	20	10.3
0.7	10.1	25	9.7
0.8	10.1	30	8.5
0.9	10.3		



COM-POWER AB-100

BICONICAL ANTENNA

S/N: 1535

CALIBRATION DATE: MARCH 26, 2002

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(MHz)	(dB)	(MHz)	(dB)
30	13.8	120	9.3
35	12.9	125	11.0
40	12.5	140	12.2
45	12.2	150	12.4
50	12.5	160	13.0
60	10.5	175	14.5
70	8.5	180	14.9
80	8.0	200	15.0
90	7.9	250	16.2
100	8.5	300	19.0



COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 01116

CALIBRATION DATE: MARCH 6, 2002

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(MHz)	(dB)	(MHz)	(dB)
300	11.70	700	19.80
400	11.80	800	22.40
500	15.90	900	22.20
600	17.30	1000	23.60



COM-POWER PA-102

PREAMPLIFIER

S/N: 1249

CALIBRATION DATE: MARCH 25, 2002

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(MHz)	(dB)	(MHz)	(dB)
30	36.7	300	36.0
40	36.8	350	35.9
50	36.7	400	36.0
60	36.6	450	35.5
70	36.5	500	35.7
80	36.7	550	36.2
90	36.6	600	35.4
100	36.6	650	35.7
125	36.4	700	36.3
150	36.4	750	35.0
175	36.2	800	35.1
200	36.2	850	35.1
225	36.2	900	33.5
250	36.1	950	32.7
275	36.0	1000	32.3



COM-POWER PA-122

PREAMPLIFIER

S/N: 181915

CALIBRATION DATE: JUNE 12, 2002

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(MHz)	(dB)	(MHz)	(dB)
1000	32.8	7000	32.8
1100	32.8	7500	32.7
1200	32.7	8000	32.2
1300	32.6	8500	31.4
1400	32.7	9000	32.3
1500	32.8	9500	31.4
1600	32.5	10000	31.4
1700	32.2	11000	33.2
1800	27.0	12000	33.6
1900	29.2	13000	32.2
2000	29.7	14000	32.8
2500	33.0	15000	32.0
3000	33.3	16000	33.0
3500	33.6	17000	33.5
4000	33.3	18000	33.4
4500	33.3		
5000	33.1		
5500	33.0		
6000	33.1		
6500	32.8		



A.R.A DRG-118/A

HORN ANTENNA

S/N: 1015

CALIBRATION DATE: DECEMBER 18, 2001

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(MHz)	(dB)	(MHz)	(dB)
1000	25.8	10000	41.3
1500	26.9	10500	42.1
2000	30.9	11000	42.2
2500	30.2	11500	43.6
3000	31.8	12000	44.0
3500	32.4	12500	42.2
4000	31.9	13000	40.7
4500	31.6	13500	40.9
5000	33.3	14000	39.7
5500	31.8	14500	44.7
6000	38.2	15000	42.4
6500	38.2	15500	45.1
7000	38.3	16000	42.8
7500	38.4	16500	42.6
8000	39.5	17000	45.9
8500	38.8	17500	49.2
9000	40.9	18000	42.4
9500	40.2		



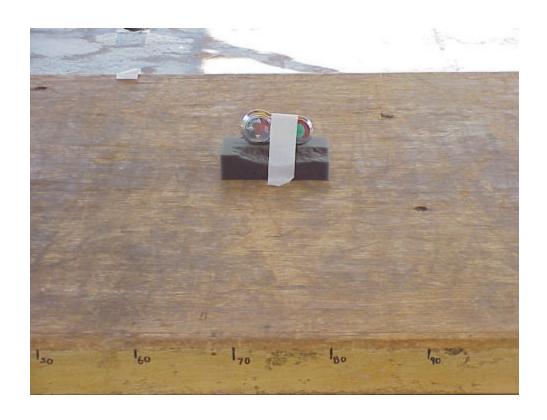


X-AXIS

INTERLINK ELECTRONICS
TRANSMITTER
Model: RP NAVIGATOR
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 9-16-02

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS





Y-AXIS

INTERLINK ELECTRONICS
TRANSMITTER
Model: RP NAVIGATOR
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 9-16-02

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS





Z-AXIS

INTERLINK ELECTRONICS
TRANSMITTER
Model: RP NAVIGATOR
FCC PART 15 SUBPART C - RADIATED EMISSIONS – 9-16-02

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



APPENDIX E

DATA SHEETS

COMPANY Interlink Electronics	DATE	9/16/02	
EUT 916,5 MHz TX	DUTYCYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TO AVG	0	2
S/N	TEST DIST.	3 METERS	
TEST ENGINEER Andre D. Khan	LAB	Ĺĸ.	

	Comments														
Spec	(dBuV/m)	94.0	94.0	94.0	94.0	94.0	94.0								
Delta:		-4.9	2,5	-14.2	-10.3	-15.6	9¢.								
Amplifier "Corrected	(dBuV/m)	89.1	89.5	79.8	7:3	7.82	85.7								
Ampliffer	(B)	33.2	33.2	33.2	33.2	33.2	33.2								
1	(dB)	8.3	8.3	8.3	8.3	8.3	00 .3								
Antenna	(dB)	22.4	22.4	22.4	22.4	22.4	22.4								
TUR	Champel	TOW	TOW	LOW	NOT	NOT	LOW								
TOTAL	0.7.20	×	>	Z	×	X	7								
111	s) (degrees) (X.Y.Z)	170	170	180	180	165	170								
	mergini (meters)	.5.	5	V)	<u></u>	0	0								
Antenna Antenna	Cor H)	Ħ	H	(pulse)	>	^	>				And the second s				
	or Quasi. rwar. reign Peak (QP) (V or H) (meter	QP	QP	QP	ďδ	QP	ďò			derror bloven blev grant Garanter de de politike de		Control of the contro	antizionalentententizionalententententententententententententente		
Peak	(dBuV)	91.6	92.0	82.3	86.2	6.08	50.2				Ontal Control Control Control Control		The state of the s	The state of the s	
Frequency	MHz	916,5000	916.5000	916.5000	916.5000	916.5000	916,5000								

^{*} CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	DATE	9/16/02	
	DULY CYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TOAVG	•	3
NS	TEST DIST.	3 METERS	
TEST ENGINEER Andre D. Khan	LAB		

		Comments	(60-к) (ум. и ст. и с	dystensidamonijalmäkkijäänemmammäästerenääääämäylejemäter-pääkkeletet	едей организация денеский в приняти выполняться предеставлений в председений в предеставлений в председений в	ерениниска жере бұр тең ің қазақсы деренеренеренің көсемерінің жеренеренеренере	er vermele abbilde for ende augste jede tot ende stade for ende st											
		Com	And And Street Control of the Contro	д — тетор віс сіліноу по могенція ліда од тетесілісти по поставлявання на	от такай серединий енгла утаканувайськай под темеральной пересента выполнений выполнений выполнений выполнений		т до Одина принцій одна вимод ні вод упурадня видо ні води від при на видо на принців видо на видо на видо на пр											
Spec	Limit	(dBuV/m)	34.0	54.0	54.0	54.0	\$4.0	54.0										
Delta	•	(dB)	-12.6	-10.7	-13.2	person pe	-13.7	-12.2						angan majoyanjanj	anne ann ann ann ann ann ann ann ann ann			
Ampliffer *Corrected	Reading	(dBuV/m)	42.0	43.3	40.8	2.9	40.3	8:										
Ampliffer	Gaim	(dB)	27.7	27.7	27.7	27.7	27.7	27.7										
Cable	Loss	(gp)	5.7	5.7	5.7	5.7	5.7	5.7										
Antenna	Factor	(4B)	29.6	29.6	29.6	29.6	29.6	29.6										
EIGH	Tr	Channel	NOT	MOT	MOT	10W	MO7	LOW										
EGE	Axis	(X,Y,Z)	×	λ	Z	×	>	7										
EUT	Azimuth	(degrees)	270	200	081	93	99	200		and a second sec	The state of the s	d work designation of the state						
Antenna Antenna	Height	(meters)	2.0	2.5	2.0	0.1	0.7	10										
Antenna	Polar.	(Y or H)	I	I	Œ	۸	Λ	>										
American	or Ounst.	Peak (QP) (V or H) (meters) (degrees) (X.Y.Z)	34.5 A	35.7 A	33.2 A	35.3 A	32.7 A	34.2 A										
Feak ,	Reading		47.5	20.5	43.9	50.6	45.2	48.7		The second secon		Line of the latest and the latest an					1000 to 200 to 1000 to	
Frequency		Mffz	1833.0000	1833.0000	1833.0000	1833,0000	1833.0000	1833,0000	marina grandy an arry		The state of the s				and the state of t	Andrew Control of the		

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	DATE	9/16/02	
EUT 916.5 MHz TX	DUTYCYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TO AVG	0	S
I WS	TEST DIST.	3 METERS	
TEST ENGINEER Andre D. Khan	LAB	í.	

													Nacional de la company de la c						
		Comments	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found											
Spec	Limit	(dBuV/m)	54.0 No.	54.0 No	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************	and the second s	***************************************		 ***************************************							
Delta 8	**	(dB) (dB	40		<i>'</i> O		un.	W.											
									************	************					••••	 2017 ENGINEEN 1018			
*Correct	Reading	(dBuly/m)											una mangapingan pangapan maga						
Amplifler "Corrected	Gaim	(dB)	33.2	33.2	33.2	33.2	33.2	33.2					man / production and daily operation of the						
Cable	Loss	(dB)	6.3	6.3	6.3	6.3	6.3	6.3											
Antenna	Factor	(dB)	31.0	31.0	31.0	31.0	31.0	31.0											
EUT	Tx	Channel	MOT	LOW	MOT	MOT	LOW	MOT											Von de la constitución de la con
EUL	Axis	200	×	>	7	×	Y	Z											
EII	Azimuth	degrees) (***************************************																
Antenna	Height .	meters) (
Antenna Antenna	Polar.	V or ID	I	Ħ	I	Λ	>	>				De la constanta de la constant							
	or Ousti.	Peak (QP) (V or II) (meters) (degrees) (X,Y,Z)	A	A	Y	A	Y	A	ton comments and the comments of the comments		And the second s		The state of the s			Andreas de la constante de la	and popularization and an anticommunication and distributed the second	Additional deservations and the second secon	magnitus magnitus magnitus propositionis per propositionis del pro
Peak	Reading									der eine de									
Frequency		MHz	2749.5000	2749.5000	2749.5000	2749.5000	2749.5000	2749.5000										en en discussionale des des la companya de la comp	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	DATE	9/16/02	
EUT 916.5 MHz TX	DUTYCYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TO AVG	0	dB
S/N	TEST DIST.	3 METERS	7.00
TEST ENGINEER Andre D. Khan	LAB	La	

			-						ent (M)personia	***************************************		pour jumping consequent			PC04*1000*3*5*1	Managara			
		ints									easimumomerpaesaviv quoinjumpe	and observed the second se							
		Comments	Found	Found	Found	Found	Found	Found			ompany in the control of the control	general region and control of the co							
			No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found			makananakan mekanan katan mekanan katan mekanan katan mekanan mekanan katan mekanan mekanan mekanan mekanan me	general menengan kanangan menengan pengan							
Spec	Limit	(dBuV/m)	54.0 N	S4.0	\$4.0 N	54.0 N	24.0 Z	54.0 Z											
Delta	*	(dB) (dl																	
1	Reading																		
Ampliffer *Corrected	1 Res				10			10									***************************************		
		(dB)	33.5	33.5	33.5	33.5	33.5	33.5											
Cable		(dB)	7.7	1.7	7.7	7.7	7.7	7.7											
Antenna	Factor	(dB)	32.2	32.2	32.2	32.2	32.2	32.2		The state of the s		manufaction (Control of Control o		Andrews and the second				volumeradi monitri di antiverso preventi	
EIT	Tx	Channel	NOT	LOW	LOW	LOW	LOW	MO7											
EUT	Axis	(X,Y,Z)	×	λ	7	×	Y	Z											
EUT	Azimuth	(degrees)									Anguir Calverna de recipio de la Calverna de Calverna								
Amtenna	Height	(meters)															The second second		
Antenna Antenna	Polar.	(Y#H)	н	П	jestest jestest	^	Λ	>											
	Average (A)	Peak (QP) (V or H) (meters) (degrees) (X.Y.Z)	A	A	A	A	A	¥			And the second s			The second secon					
Peak		(dBuV)																	
Frequency		MHz	3666.0000	3666.0000	3666.0000	3666.0000	3666.0000	3666.0000								A Commission of the Commission			
Freq		2	366	3666	3998	3666	3666	3666											

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS · AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	DATE	9/16/02	
EUT 916.5 MHz TX	DUTYCYCLE		%
MODEL RP NAVIGATOR	PEAK TO AVG	•	qp
NS 1		3 METERS	
TEST ENGINEER Andre D. Khan	LAB	Ĺi.	

																0023110037,774		gooden and poo		
		ients								Topic and the second se										
		Comments	g Found	g Found	g Found	g Found	E Found	g Found					in production of the section of the							
			No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found						validated by water processing and the state of the state						
Snec	Limit	(dBuV/m)		54.0	\$4.0	9,	6.45	0.42												
Delta	*	(dB)																		
Amplifier "Corrected	Reading	(dBuV/m)																		
Ampliffer	Cain	(dB)	33.3	33.3	33.3	33.3	33.3	33.3												
Cable		(dB)	8.1	8.1	8.1	8.1	8.1	00												
Antenna	Factor	(dB)	31.9	31.9	31.9	31.9	31.9	31.9												
ETIT	4	Channel	LOW	MO7	LOW	LOW	LOW	MOT					Control of the Contro							
HH		(X, Y, Z)	×	>	7	×	>	Z												
ERIT	Arimuth	(degrees)								emenderal description of the second s			outhing the conference of the	decondary desirable of the secondary of				50-year-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		
Antenna Antenna	Height	(meters)																		
Antenna	Pular	(V or H) (meters) (degrees) (X,Y,Z)	H	н	I	^	۸	Λ												
	Average (A)	Peak (OP)		V	A	A	A	A			namipriimmento del junique del del dependente del del mente	na okazana (pasana manaka m					measurement (measurement) production (measurem	dereimmente depresentemente des l'entités		
Peak	Reading	(dBuV)		and interest interest in the contract of the c								manufactural participation and designation of the						- The second sec	The second secon	
Frequency		MHz	4582.5000	4582.5000	4582.5000	4582.5000	4582.5000	4582.5000		and the second s	AND ALLEADING THE AND STREET STREET, STREET STREET, ST	endodos produces de la companya del la companya de		exemplant de la composition della composition de	муринорожий примененти по			A Compared de de la laction de la compared de la co	and a second and a	reasserant/prejectorant/preject
L			Ľ	4	4	*	164	4	***************************************									-		

^{*} CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

PAGES

COMPANY Interlink Electronics	DATE	9/16/02	
EUT 916.5 MHz TX	DUIN CYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TOAVG	•	qB
NS T	TEST DIST.	3 METERS	
TEST ENGINEER Andre D. Khan	LAB	í.	

				acy with a sound gray					dan games spil og den eg	COLUMN PROPERTY OF	en eganyisistan			MANAGEM NAME OF	***************************************	and a tomport		
			Comments	pu	nd	pu	1 1	Į.					A-0/20					
			C	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found				Vaarienojisalijijoji paljandii nijonaji paloiniiga arap					
				No Re	No Re	No Re	No Re	No Re	No Re									
	Spec	Limit	(dBuV/m)	54.0	54.0	54.0	54.0	54.0	54.0				enginere englishe construction de l'englishe englishe eng					
	Delta	8	(dB)															
	Amplifier "Corrected	Reading	(dBuV/m)													M PLY STATES OF THE STATES OF		
	Amplifier	Gain	(dB)	33.0	33.0	33.0	33.0	33.0	33.0									
100 H	Cable	Loss	(dB)	10.4	10.4	10.4	10.4	10.4	10.4									
	Antenna	Factor	(dB)	31.8	31.8	31.8	31.8	31.8	31.8		party party produce							
	5	Tx	Channel	TOW	LOW	LOW	LOW	TOW	MOT									
	ECI	Axis	(X,Y,Z)	×	Y	2	×	Y	Z									
	Ē	Azimuth	(degrees)															
	Antenna Antenna	Height	(meters)															
	Antenna	Polar.	(V or H)	ш	Ħ	I	٨	۸	>									
	Average (A)	or Oursi-	Peak (QP) (V or H) (meters) (degrees) (X,Y,Z)	A	A	A	A	A	A									
	Peak	Reading	(dBuV)															
	Frequency		MHE	5499,0000	5499.0000	\$499,0000	5499.0000	\$499.0000	5499.0000				And the second s					
	Fud		V	5498	\$49	\$499	\$499	\$498	5499									

^{*} CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	IVE	9/16/02	
EUT 916.5 MHz TX	DUTYCYCLE	0.80	%
MODEL RP NAVIGATOR	PEAK TO AVG	0	dB
I VS	TEST DIST.	3 METERS	8
TEST ENGINEER Andre D. Khan	LAB	i.	

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		Comments	70	7	Ţ	70	T	pu					mangal Automated and Automated						
		Co	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found	No Reading Found					State Later of American Space Company (American Space Company						
			No Res	No Res	No Res	No Res	No Rea	No Rea											
Spec	Limit	(dBuV/m)	54.0	54.0	54.0	54.0	54.0	54.0											
Delta	*	(db)																	
Corrected	Reading	(dBuV/m)																	
Ampliffer *Corrected	Gain		32.9	32.9	32.9	32.9	32.9	32.9											
Cable	Loss	(dB)	11.5	11.5	 	1.5	11.5	1.5											
Antenna	Factor	(dB)	38.2	38.2	38.2	38.2	38.2	38.2		enge neres en eschi		MARKET PROCESSION							
EUT	Tx	Channel	MOT	TOW	LOW	LOW	LOW	TOW.											
EII	Axis	(X,Y,Z)	X	¥	Z	X	>	Z											
EUT	Azimuth	(V or H) (meters) (degrees) (X,Y,Z)																	
Antenna	Polar, Height	(meters)																	
Antenna Antenna	Polar.	(V or H)	Ш	I	缸	>	>	>											
	Average (A)		<	A	A	V	A	Y					analysis of the second						
Penk	Reading	(dBuV)																	
Frequency		MIL	6415.5000	6415.5000	6415.5000	6415.5000	6415,5000	6415.5000			Newsystems (Special Control of Co		Control Comments Control Contr				diamental de de la companya de de la companya de la	nikovana prakonski ilavoiskovanskolistina ali pulitika	naka manandyana politerida mandalamada karanda
É			2	3	2	75	3	2	-								Somower and		

^{*} CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	DATE	9/16/02	
EUT 916.5 MHz TX	DUTY CYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TO AVG	•	9
NS NS	TEST DIST.	3 METERS	S
TEST ENGINEER Andre D. Khan	LAB	City.	

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		Comments	pul	3	701	7	7472					mejer kepolonia menekepolonia pominente				and investment of the seasons of the
		Ö	No Reading Found								onglewoonskindokkalindokkingoonsensoo					
			No Re													
Spec	Limit	(dBuVm)	54.0	54.0	54.0	54.0	54.6	% 0.								an ann an garaga an
Delta	¥	(dB)														And the second district of the second
Corrected	Reading	(dBuV/m)						mpung anjum gapaga	***************************************	***************************************				est entre in i bosses en		anger connection and produce of the connection and
Amplifier Corrected	Caim	(db)	32.7	32.7	32.7	32.7	32.7	32.7	***************************************							
Cable	Loss	(dB)	11.7	11.7				provide the second								
Amtenna	Pactor	(dB)	38.4	38.4	38.4	38.4	38,4	38.4								
ECIT	T	Channel	TOW.	MO7	MOT	MOT	NO.	M07								aniani kanpi internananji marani
EE	Axis	(X,Y,Z)	×	λ	2	×	>	7								
1113	Azimuth	(degrees)														www.manajeunjeunjeunjeunjeunjeunjeunjeunjeunjeun
Antenna Antenna	Height	(meters)														Compression (CC) was related to the responsibility of
Antenna	Polar.	(Vor II)	Ξ	Н	Н	V	٧	>				downstrate of the control of the con				
	Average (A)	Peak (QP) (V or H) (meters) (degrees) (X,Y,Z)	A	A	A	A	A	Y	***************************************			And the second sec				
Peak	Reading	(dBaV)							es midros turiom							
Frequency		Miz	7332.0000	7332.0000	7332.0000	7332.0000	7332.0000	7332.0000								

^{*} CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	DATE	9/16/02	
	DUTYCYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TO AVG	•	dB
1 Vis	TEST DIST.	3 METERS	8
TEST ENGINEER Andre D. Khan	LAB	Ĺ.	

									***************************************						MANAGORE MARRIE	goodspayorourses			
	Comments	No Reading Found																	
Spec Limit	(dBu V/m)	54.0 Z	Ž 0.1%	Ž 0.75,	2.0.1% 0.1%	54.0 Z	54.0 N				***************************************			***************************************		***************************************			
	(dB)																		
Amplifier "Corrected Gain Reading	(d Na V/m)							www.deconload			***************************************								
Ampliffer	(dB)	31.8	31.8	31.8	31.8	31.8	31.00												
	(dB)	12.4	12.4	12.4	12.4	12.4	12.4	dan marang pangkan											
Antenna Factor	(dB)	39.2	39.2	39.2	39.2	39.2	39.2	***************************************			***************************************								
	Channel	LOW	ΛOΊ	LOW	M07	MO7	LOW												
量者	(degrees) (N.Y.O)	×	<i>></i>	Z	×	>	7				***************************************								
										ripanya piningan pangangan piningan									
Antenna Antenna Polar. Height	(meters							***************************************		and the state of t									
	5 2	ш	pages) parket	ı	>	>	٨		No. of Contract of	Ample op plane is an incentional plane in the control of the contr		Annual designation of the second of the seco							
Average (A) or Quest-	Peak (OP) (V or H) (meters)	A	¥	A	A	A	A			Development Court County (Section Court of County County Court of County County Court of County Coun		Adamenti en	Occommon and the second			International Control of the Control	erranjonakon ilianiliakon erranjonakon ilianiliakon erranjonakon ilianiliakon erranjonakon ilianiliakon erranjonakon erranjonakon ilianiliakon erranjonakon erran	the initial property of the pr	political designations occurred the second
Peak	(Apple)																	and the second second	
Frequency	MHz	8248.5000	8248.5000	8248.5000	8248.5000	8248.5000	8248.5000		anderestive and other field of the state of the process described the state of the	kerijamananjaman ili munji (siyi) jepkidojmanji propi piji polikalima	na de la composito de la compo	many and the collection of eye of million served is developed the entered in a	erouscoscocycycul/Ciferynii/Ciferyni			minos etvenidologiinal aparemonymenti bilinemonymenterepilites	génalatjusesegelekkulationerrenennymenterrentjerrinterrijerrinterrijerrinterrijerrinterrijerrinterrijerrinterr	on punk numeral interference militari in m	lineuspus salas les dissipantes de destandas es servicios de permis estre es cidades de la companya de la comp

^{*} CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPEC LIMIT - CORRECTED READING

COMPANY Interlink Electronics	DATE	9/16/02	
EUT 916.5 MHz TX	DUTY CYCLE	0.00	%
MODEL RP NAVIGATOR	PEAK TO AVG	•	qp
NS.	TEST DIST.	3 METERS	
TEST ENGINEER Andre D. Khan	LAB	5	

								American Insulativi	***************************************				an participant	PR-200-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1940 WW 20 COMES	***************************************		***************************************	
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		Comments	Found	Found	Found	Found	Found	Found				discontinuos de la contraction del contraction de la contraction d							
			No Reading Found			Observation of the Confederation of the Confederati	oder verbriger ungstagen blede den geren eine geste der												
Snec	Limit	(dBuVm)	\$4.0 N	54.0 N.	54.0 N	54.0 N	54.0 N	54.0 No											
Delta		(dB) (dl		"" "				~ ~											
									Pasa Parrico de Sas										
Amplifier *Corrected	Reading	(dDuV/m)																	
Amolific	. §	(dB)	32.0	32.0	32.0	32.0	32.0	32.0				TO A THE PERSON NAMED IN COLUMN NAMED IN COLUM							
Cable	Loss	(db)	13.4	13,4	13.4	13,4	13,4	च (%)		elektrijerit (i antirgiriti) (i antiraki) (i antiraki)									
Antenna	Factor	(qp)	40.7	40.7	40.7	40.7	40.7	40.7											
EUT	73	Channel	MOT	TOW	TOW	LOW	TOW	TOW											
113	Asis		×	>	7	×	>-	2											
EIIT	Azimuth	(degrees)										government und und de							
Amtenna		(meters)																	
Antenna Antenna	Polar.		H	Ħ	Ħ	>	>	>			- Company of the Comp	And the second s							
200000000000000000000000000000000000000	Average (A)	k (OP)	V	A	¥	Ą	¥	4											
\vdash										To the second se									
Peak	Reading	(dBuV)																	
Frequency		MHk	9165.0000	9165.0000	9165.0000	9165.0000	9165.0000	9165.0000	Commonwealth of the Common of				ier Germanische gegen delegen werden der			And Control of the Co	Notified and State of the State	minerand a disense legent liberation and	Philippe Connection and Connection a
Fr			91	91	91	91	6	2				-		Market Post Page					

^{*} CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN ** DELTA = SPECLIMIT - CORRECTED READING



RADIATED EMISSIONS

COMPANY NAME: INTESTIN	<u>LELectronic</u>	5 DATE: 9-16-02					
EUT: Transmitter	EUT S/N:						
EUT MODEL: RP Nowigato							
SPECIFICATION:	CLASS:TEST I	DISTANCE: 3M LAB: F					
ANTENNA: YLOOP Y BICONICAL	VLOG VHORN	POLARIZATION: VERT WHORIZ					
☐ QUALIFICATION ☐ ENGINEERING	☐ MFG. AUDIT	ENGINEER: A. V.					
NOTES: I MHZ Clock							

Frequency	Peak Reading	Quasi- Peak	Antenna Height	Azimuth	Delta *	Corrected Limit	Comments
(MHz)		(dBuV/m)		(degrees)	(dB)	(dBuV/m)	
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				***************************************	ar menenne general koloniska skiloniska koloniska koloniska programa general programa general programa general		
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