

TIMCO ENGINEERING INC.

849 NW State Road 45

Newberry, Florida 32669

<http://www.timcoengr.com>

888.472.2424 F 352.472.2030 email: sid@timcoengr.com



Test Report

Product Name: BASE DUAL

FCC ID: S6WDR3160BAS

Applicant:

**INVIVO CORP.
12601 RESEARCH PARKWAY
ORLANDO FLORIDA 32816
USA**

Date Received: 2/28/2005

Date Tested: 2/28/2005

APPLICANT: INVIVO CORP.

FCC ID: S6WDR3160BAS

REPORT #: I\INVIVO\429BUT5\429BUT5TestReport.doc

COVER SHEET

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TABLE OF CONTENTS

APPLICANT: INVIVO CORP.

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TEST REPORT CONTAINING:

PAGE 1-6.....TEST EQUIPMENT LIST
PAGE 7.....TEST PROCEDURE
PAGE 8-10.....RADIATION INTERFERENCE TEST DATA
PAGE 11.....DUTY CYCLE CALCULATION
PAGE 12.....BASE UNIT ON/OFF TIME
PAGE 13.....BASE UNIT PLOT
PAGE 14-15.....OCCUPIED BANDWIDTH AND PLOTS
PAGE 16.....POWERLINE CONDUCTED
PAGE 17-18.....POWERLINE CONDUCTED PLOTS
PAGE 19.....RADIATION INTERFERENCE SIMULTANEOUS OPERATION

EXHIBITS INCLUDED:

BLOCK DIAGRAM
SCHEMATIC
USERS MANUAL
LABEL SAMPLE
LABEL LOCATION
EXTERNAL PHOTOGRAPHS
INTERNAL PHOTOGRAPHS
OPERATIONAL DESCRIPTION
TEST SET UP PHOTOGRAPHS

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TABLE OF CONTENTS

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EMC Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/12/06
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 9/23/03	9/23/05
Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 9/23/03	9/23/05
Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 9/23/03	9/23/05
Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 9/23/03	9/23/05
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/15/03	4/15/05
Blue Tower RF Preselector	HP	85685A	2620A00294	CAL 4/27/04	4/27/06
Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/15/03	4/15/05
Silver Tower Spectrum Analyzer	HP	8566B Opt 462	3552A22064 3638A08608	CAL 3/22/04	3/22/06
Silver Tower RF Preselector	HP	85685A	2926A00983	CAL 3/22/04	3/22/06
Silver Tower Quasi-Peak Adapter	HP	85650A	3303A01844	CAL 3/22/04	3/22/06
Silver Tower Preamplifier	HP	8449B	3008A01075	CAL 3/22/04	3/22/06
Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/26/01	4/26/03
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Biconnical Antenna	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
BiconiLog Antenna	EMCO	3143	9409-1043	No Cal Required	

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Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 8/26/04	8/26/06
Log-Periodic Antenna	Electro-Metrics	LPA-30	409	CAL 3/4/03	3/4/05
Log-Periodic Antenna	Eaton	96005	1243	CAL 5/8/03	5/8/05
Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	152	CAL 3/21/01	3/21/04
Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	153	CAL 9/26/02	9/26/05
Double-Ridged Horn Antenna	Electro-Metrics	RGA-180	2319	CAL 2/17/03	2/17/05
Horn Antenna *(at 3 meters)	Electro-Metrics	EM-6961	6246	CAL 3/31/03	3/31/05
Horn Antenna *(at 10 meters)	Electro-Metrics	EM-6961	6246	CAL 6/4/03	6/4/05
Passive Loop Antenna	EMC Test Systems	EMCO 6512	9706-1211	CHAR 7/10/01	7/10/03
Harmonic Mixer with Horn Antenna	Oleson Microwave Labs	M08HW/A	F30425-1	CHAR 4/25/03	4/25/05
Harmonic Mixer with Horn Antenna	Oleson Microwave Labs	M12HW/A	E30425-1	CHAR 4/25/03	4/25/05
LISN	Electro-Metrics	ANS-25/2	2604	CAL 8/27/04	8/27/06
LISN	Electro-Metrics	EM-7820	2682	CAL 3/12/03	3/12/05
Termaline Wattmeter	Bird Electronic Corporation	611	16405	CAL 7/16/04	7/16/06
Termaline Wattmeter	Bird Electronic Corporation	6104	1926	CAL 7/16/04	7/16/06
Oscilloscope	Tektronix	2230	300572	CAL 7/3/03	7/3/05
System One	Audio Precision	System One	SYS1-45868	CHAR 4/25/02	4/25/04
Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 1/22/02	1/22/04
AC Voltmeter	HP	400FL	2213A14499	CAL 7/19/04	7/19/06
AC Voltmeter	HP	400FL	2213A14261	CHAR 10/15/01	10/15/03

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Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
AC Voltmeter	HP	400FL	2213A14728	CHAR 10/15/01	10/15/03
Digital Multimeter	Fluke	77	35053830	CHAR 1/8/02	1/8/04
Digital Multimeter	Fluke	77	43850817	CHAR 1/8/02	1/8/04
Digital Multimeter	HP	E2377A	2927J05849	CHAR 1/8/02	1/8/04
Multimeter	Fluke	FLUKE-77-3	79510405	CHAR 9/26/01	9/26/03
Peak Power Meter	HP	8900C	2131A00545	CAL 7/2/03	7/2/05
Power Sensor	Agilent Technologies	84811A	2551A02705	CAL 7/2/03	7/2/05
Power Meter	HP	432A	1141A07655	CAL 4/15/03	4/15/05
Power Sensor	HP	478A	72129	CAL 4/15/03	4/15/05
Power Meter And Sensor	Bird	4421-107 & 4022	0166 & 0218	CAL 4/16/03	4/16/05
Digital Thermometer	Fluke	2166A	42032	CAL 7/19/04	7/19/06
Thermometer	Traulsen	SK-128		CHAR 1/22/02	1/22/04
Thermometer	Extech	4028	14871-2	CAL 3/7/03	3/7/05
Hygro-Thermometer	Extech	445703	0602	CAL 10/4/02	10/4/04
Frequency Counter	HP	5352B	2632A00165	CAL 8/3/04	8/3/06
Frequency Counter	HP	5385A	2730A03025	CAL 3/7/03	3/7/05
Service Monitor	IFR	FM/AM 500A	5182	CAL 11/22/00	Out of Service
Comm. Serv. Monitor	IFR	FM/AM 1200S	6593	CAL 5/12/02	5/12/04
Signal Generator	HP	8640B	2308A21464	CAL 8/26/04	8/26/06
Sweep Generator	Wiltron	6648	101009	CAL 4/15/03	4/15/05
Sweep Generator	Wiltron	6669M	007005	CAL 3/3/03	3/3/05

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Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
Modulation Analyzer	HP	8901A	3435A06868	CAL 9/5/01	9/5/03
Modulation Meter	Boonton	8220	10901AB	CAL 4/15/03	4/15/05
Near Field Probe	HP	HP11940A	2650A02748	CHAR 2/1/01	Out of Service
BandReject Filter	Lorch Microwave	5BR4-2400/60-N	Z1	CHAR 4/17/03	4/17/05
BandReject Filter	Lorch Microwave	6BR6-2442/300-N	Z1	CHAR 4/17/03	4/17/05
BandReject Filter	Lorch Microwave	5BR4-10525/900-S	Z1	CHAR 4/12/03	4/12/05
Notch Filter	Lorch Microwave	5BRX-850/X100-N	AD-1	CHAR 4/17/03	4/17/05
High Pass Filter	Unk	3768(5)-400	041	CHAR 12/17/02	12/17/04
High Pass Filter	Microlab	HA-10N		CHAR 11/17/02	11/17/04
High Pass Filter	Microlab	HA-20N		CHAR 12/17/02	12/17/04
Audio Oscillator	HP	653A	832-00260	CHAR 12/1/02	12/1/04
Audio Generator	B&K Precision	3010	8739686	CHAR 12/1/02	12/1/04
Frequency Counter	HP	5382A	1620A03535	CHAR 3/2/01	Out of Service
Frequency Counter	HP	5385A	3242A07460	CAL 3/7/03	3/7/05
Amplifier	HP	11975A	2738A01969	No Cal Required	
Egg Timer	Unk			CHAR 2/1/02	2/1/04
Measuring Tape-20M	Kraftixx	0631-20		CHAR 2/1/02	2/1/04
Measuring Tape-7.5M	Kraftixx	7.5M PROFI		CHAR 2/1/02	2/1/04
Coaxial Cable #51	Insulated Wire Inc.	NPS 2251-2880	Timco #51	CHAR 1/23/02	1/23/04
Coaxial Cable #64	Semflex Inc.	60637	Timco #64	CHAR 1/24/02	1/24/04
Coaxial Cable #65	General Cable Co.	E9917 RG233/U	Timco #65	CHAR 1/23/02	1/23/04

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Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
Coaxial Cable #106	Unknown	Unknown	Timco #106	CHAR 1/23/02	1/23/04
Injection Probe	Fischer Custom Communications	F-120-9A	270	CAL 6/1/01	6/1/03
Power Line Coupling/Decoupling Network	Fischer Custom Communications	FCC-801-M2-16A	01048	CAL 8/29/01	8/29/03
Power Line Coupling/Decoupling Network	Fischer Custom Communications	FCC-801-M3-16A	01060	CAL 8/29/01	8/29/03
VHF/UHF Current Probe	Fischer Custom Communications	F-52	130	CAL 8/30/01	8/30/03
Passive Impedance Adapter	Fischer Custom Communications	FCC-801-150-50-CDN	01117 & 01118	CAL 8/29/01	8/29/03
Radiating Field Coil	Fischer Custom Communications	F-1000-4-8/9/10-L-1M	9859	CAL 10/15/98	10/15/00
EMC Immunity Test System	Keytek	CEMASTER	9810210	CAL 2/1/02	2/1/04
Compliance Test System - AC Power Source	California Instruments	1251RP	L05865	CAL 2/25/04	2/25/06
Compliance Test System - PACS-1 Module	California Instruments	PACS-1	X71484	CAL 2/25/04	2/25/06
Isotropic Field Probe	Amplifier Research	FP5000	22839		
Isotropic Field Probe	Amplifier Research	FP5000	300103		
Capacitor Clamp	Keytek	CM-CCL	9811359	No Cal Required	
Amplifier	Amplifier Research	10W1000B	23117	No Cal Required	
Field Monitor	Amplifier Research	FM5004	22288	No Cal Required	
ELF Meter	F. W. Bell	4060	Not Serialized		Out of Service
Standard Gain Horn 1.0-2.4 GHz	Polarad	CA-L	235	No Cal Required	
Standard Gain Horn 2.14-4.34 GHz	Polarad	CA-S	203	No Cal Required	
Standard Gain Horn 3.95-5.85 GHz	Scientific-Atlanta Inc.	11A-3.9	8448CG	No Cal Required	
Standard Gain Horn	Systron Donner	DBG-520-20	Not Serialized	No Cal	

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Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
8.2-12.5 GHz				Required	
Standard Gain Horn 18.0-26.3 GHz	Systron Donner	DBE-520-20	Not Serialized	No Cal Required	
Standard Gain Horn 26.5-40.2 GHz	Systron Donner	DBD-520-20	Not Serialized	No Cal Required	
Standard Gain Horn 40.0-60.0 GHz	ATM	19-443-6R	Not Serialized	No Cal Required	
Double-Ridged Horn Antenna	EMCO	3116	9011-2145		Out of Service
Standard Gain Horn 12.4-18.0 GHz	ATM	62-442-6	D262108-01	No Cal Required	
Standard Gain Horn 5.85-8.2 GHz	ATM	137-442-2	D261908-01	No Cal Required	
AC Voltmeter	HP	400F	0950A05433	CAL 8/13/03	8/13/05
RF Power Amplifier	Ophir RF	5150F	1041 'X1'	No Cal Required	
Electric Field Sensor	Amplifier Research	FP6001	302504		
Electric Field Sensor	Amplifier Research	FP6001	302510	CAL 6/1/04	6/1/06
Surge Generator	Com-Power Corporation	SG-168	25802	CAL 2/27/04	2/27/06
RF Power Amplifier	Ophir RF, Inc.	5150F	1041	CHAR 10/31/03	10/31/05
3-Meter Anechoic Chamber	Panashield	N/A	N/A	Listed 5/12/04	5/11/07
Digital Multimeter	Fluke	77III	79510408	CAL 7/19/04	7/19/06
Open-Frame Tower Spectrum Analyzer	HP	8566B/85662A	2627A03154/2648A14276	CAL 7/9/04	7/9/06
Open-Frame Tower RF Preselector	HP	85685A	3107A01282	CAL 7/9/04	7/9/06
Open-Frame Tower Quasi-Peak Adapter	HP	85650A	2046A00305	CAL 7/9/04	7/9/06
Signal Generator	HP	8648C	3847A04696	CAL 9/27/04	9/27/06

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a Hewlett Packard spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 76°F with a humidity of 49%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS
33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed. The ambient temperature of the EUT was 78 °F with a humidity of 40%.

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI C63.4-2003 with the EUT 40 cm from the vertical ground wall.

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APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
NAME OF TEST: RADIATION INTERFERENCE
RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH	FIELD STRENGTH	15.209
of Fundamental: 902-928 MHz 2.4-2.4835 GHz 94 dBuV/m @3m	of Harmonics 54 dBuV/m @3m	30 - 88 MHz 40 dBuV/m @3M 88 - 216 MHz 43.5 216 - 960 MHz 46 ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

Base with Horizontal antenna active

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Duty Cycle Factor	Field Strength Averaged	Margin dB
2,402.0	2,315.00	33.5	H	3.12	32.08	23.10	45.6	8.40
2,402.0	2,368.60	34.2	H	3.16	32.23	23.10	46.49	7.51
2,402.0	2,402.00	65.1	H	3.18	32.33	23.10	77.51	16.49
2,402.0	2,483.50	33.8	H	3.24	32.55	23.10	46.49	7.51
2,402.0	2,748.00	12.5	H	3.42	32.90	23.10	25.72	28.28
2,402.0	4,804.00	14.7	H	4.90	34.34	23.10	30.84	23.16
2,440.0	2,440.00	66.5	H	3.21	32.43	23.10	79.04	14.96
2,440.0	2,483.50	34.7	H	3.24	32.55	23.10	47.39	6.61
2,440.0	2,514.40	37.4	H	3.26	32.62	23.10	50.18	3.82
2,440.0	2,548.00	35.8	H	3.28	32.66	23.10	48.64	5.36
2,440.0	2,791.00	13.0	H	3.45	32.95	23.10	26.30	27.70
2,440.0	4,880.00	17.3	H	4.94	34.40	23.10	33.54	20.46
2,480.0	2,480.00	67.6	H	3.24	32.54	23.10	80.28	13.72
2,480.0	2,548.00	35.9	H	3.28	32.66	23.10	48.74	5.26
2,480.0	2,581.00	30.0	H	3.31	32.70	23.10	42.91	11.09
2,480.0	2,778.00	13.2	H	3.44	32.93	23.10	26.47	27.53
2,480.0	2,810.00	12.0	H	3.47	32.97	23.10	25.34	28.66
2,480.0	2,839.00	14.2	H	3.49	33.01	23.10	27.60	26.40
2,480.0	4,962.00	13.1	H	4.98	34.47	23.10	29.45	24.55

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APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
NAME OF TEST: RADIATION INTERFERENCE
RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH	FIELD STRENGTH	15.209
of Fundamental:	of Harmonics	30 - 88 MHz 40 dBuV/m @3M
902-928 MHz		88 - 216 MHz 43.5
2.4-2.4835 GHz		216 - 960 MHz 46
94 dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

Base transmitter with Vertical antenna active

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Duty Cycle Factor	Field Strength Averaged	Margin dB
2,400.0	2,317.00	37.0	V	3.12	32.09	23.10	49.11	4.89
2,400.0	2,370.00	36.7	V	3.16	32.24	23.10	49	5.00
2,400.0	2,386.00	28.0	V	3.17	32.28	23.10	40.35	13.65
2,400.0	2,400.00	67.4	V	3.18	32.32	23.10	79.8	14.20
2,400.0	2,484.60	37.4	V	3.24	32.56	23.10	50.1	3.90
2,400.0	2,748.60	13.0	V	3.42	32.90	23.10	26.22	27.78
2,400.0	4,804.00	18.0	V	4.90	34.34	23.10	34.14	19.86
2,440.0	2,378.00	17.1	V	3.16	32.26	23.10	29.42	24.58
2,440.0	2,440.00	66.3	V	3.21	32.43	23.10	78.84	15.16
2,440.0	2,484.30	39.9	V	3.24	32.56	23.10	52.6	1.40
2,440.0	2,516.00	39.0	V	3.26	32.62	23.10	51.78	2.22
2,440.0	2,549.30	39.1	V	3.28	32.66	23.10	51.94	2.06
2,440.0	2,792.00	13.9	V	3.45	32.95	23.10	27.20	26.80
2,440.0	4,880.00	16.3	V	4.94	34.40	23.10	32.54	21.46
2,480.0	2,480.00	68.0	V	3.24	32.54	23.10	80.68	13.32
2,480.0	2,483.50	41.1	V	3.24	32.55	23.10	53.79	0.21
2,480.0	2,549.00	38.7	V	3.28	32.66	23.10	51.54	2.46
2,480.0	2,581.00	34.6	V	3.31	32.70	23.10	47.51	6.49
2,480.0	2,839.00	12.0	V	3.49	33.01	23.10	25.40	28.69
2,480.0	4,960.00	15.4	V	4.98	34.47	23.10	31.75	22.25

TEST RESULTS: This unit DOES meet the FCC requirements.

APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
REPORT #: I\INVIVO\429BUT5\429BUT5TestReport.doc

TIMCO ENGINEERING INC.

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TEST DATA:

APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
NAME OF TEST: RADIATION INTERFERENCE

TEST PROCEDURE: ANSI STANDARD C63.4-2003 using a Hewlett Packard Model 8566B spectrum analyzer, HP Model 85685A Pre-selector, HP Model 85650A Quasi-Peak adapter, and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

PERFORMED BY: Mario de Aranzeta DATE: 2/28/2005

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CALCULATION OF DUTY CYCLE:

The period of the pulse train is determined by observing it on a spectrum analyzer with zero (0) frequency span. A plot is then made of the pulse train with a sweep time of 100 milliseconds. This sweep determines the duration of the pulse train, which in this case is millisecond. This sweep allows the determination of the number of and type of pulses, i.e. long & short. Plots are then made showing the duration of each type of pulse and its duration. From the 100 millisecond plot the number of a given type of pulse is then multiplied by the duration of that type pulse. This allows the calculation of the amount of time the EUT is on within 100 ms. If the pulse train is longer than 100 ms then this number is multiplied by 100 to determine the percentage ON TIME. If the pulse train is less than 100 ms the total on time is divided by the length of the pulse train and then multiplied by 100 to determine the percentage ON TIME.

On time: 280 uSec x 25 pulses = 7 milliseconds
Off time: 3.84 mSec* 24

$$\text{dB} = 20 * \log (7/100)$$

$$23.1 \text{ dB} = 20 * \log (.07)$$

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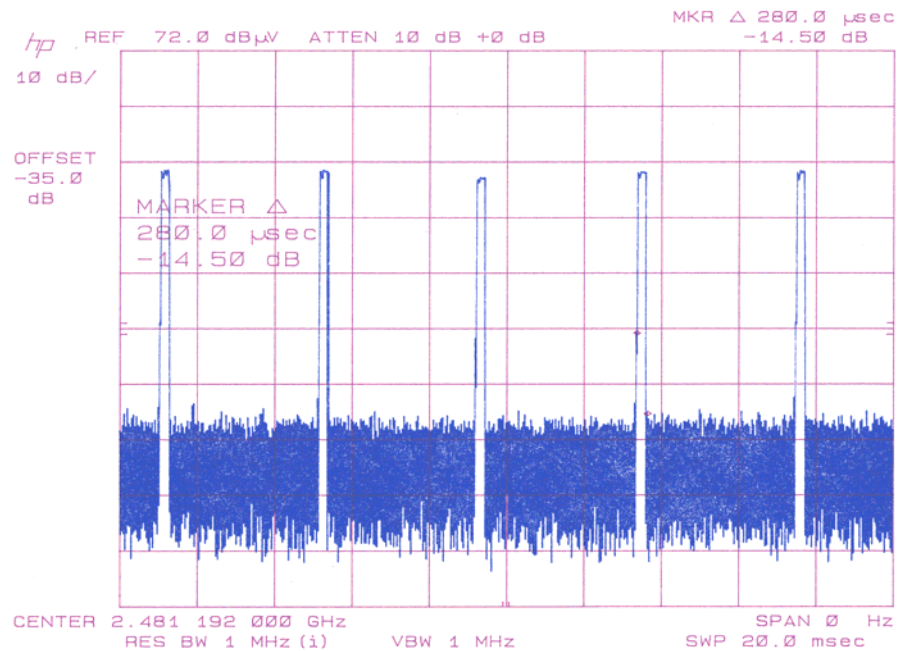
TIMCO ENGINEERING INC.

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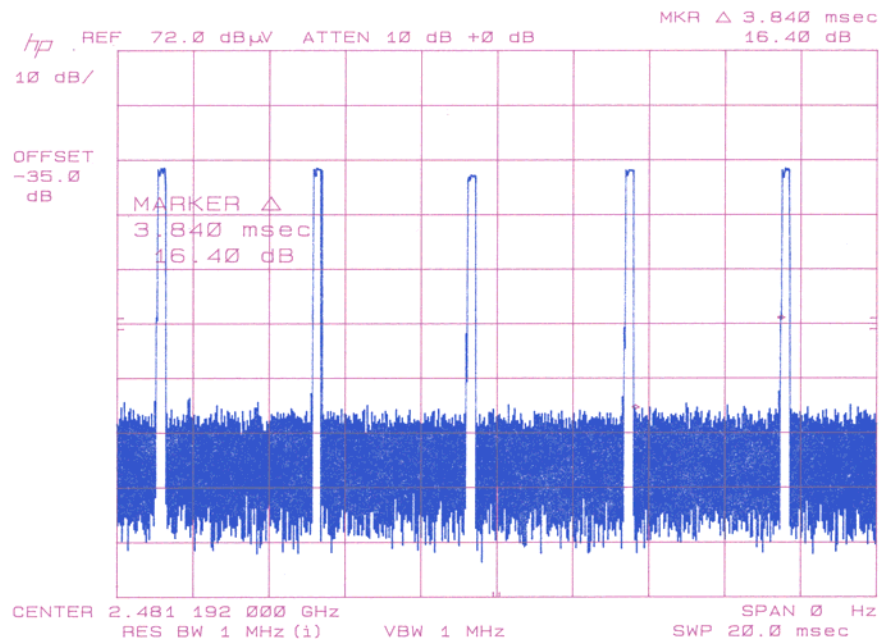
Newberry, Florida 32669

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Base unit on time



Base unit off time

APPLICANT: INVIVO CORP.

FCC ID: S6WDR3160BAS

REPORT #: I\INVIVO\429BUT5\429BUT5TestReport.doc

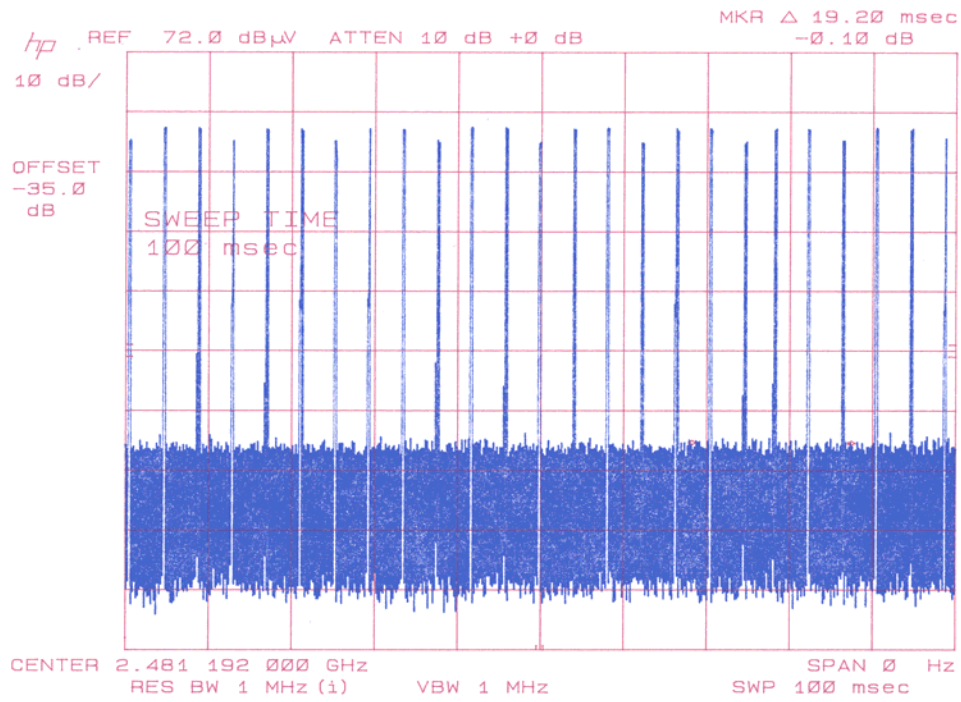
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Base unit

APPLICANT: INVIVO CORP.

FCC ID: S6WDR3160BAS

REPORT #: I\INVIVO\429BUT5\429BUT5TestReport.doc

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APPLICANT: INVIVO CORP.

FCC ID: S6WDR3160BAS

NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.249

REQUIREMENTS: The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

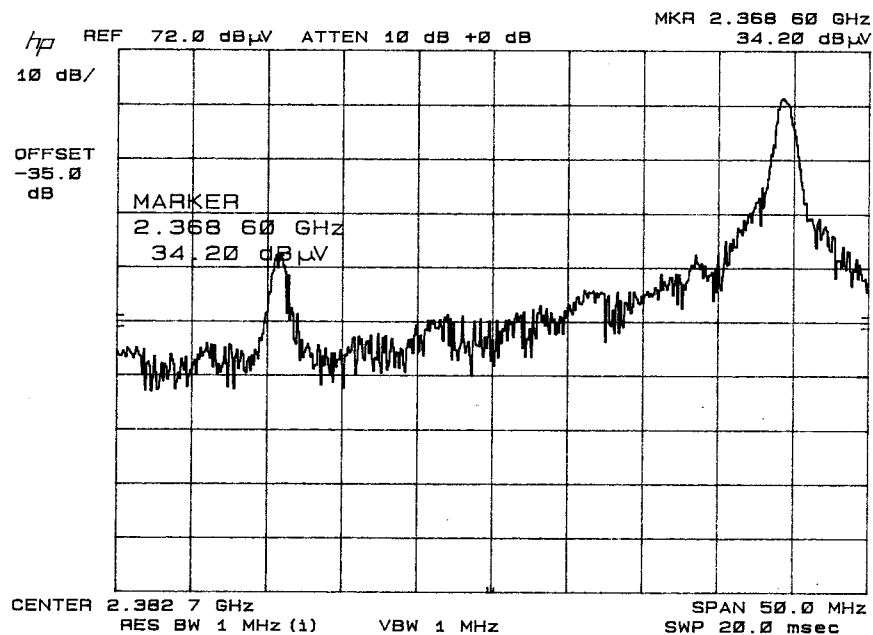
Band edge emissions plots are included on the following pages

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dBm per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: Mario de Aranzeta

DATE: 2/28/2005



34.2 dBuV/m from plot
3.16 dB coax loss
32.23 dB ACF
-23.1 dB pulse mode CF

46.49 dBuV/m

APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
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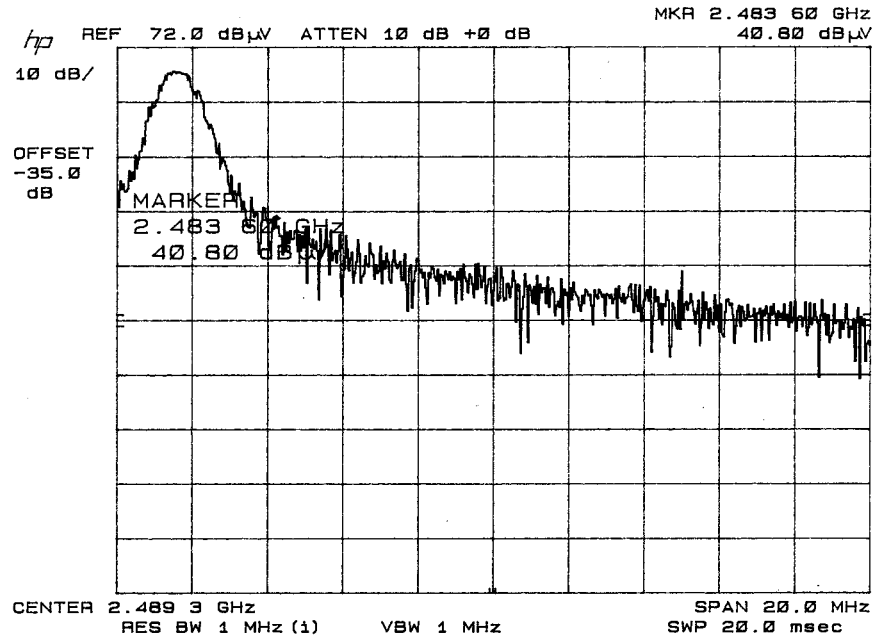
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40.80 dBuV/m from plot
3.24 dB coax loss
32.56 dB ACF
-23.1 dB pulse mode CF

53.50 dBuV/m

APPLICANT: INVIVO CORP.

FCC ID: S6WDR3160BAS

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APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE
RULES PART NO.: 15.207

REQUIREMENTS:	QUASI-PEAK	AVERAGE
.15 - 0.5 MHz	66-56 dBuV	56-46 dBuV
0.5 - 5.0	56	46
5.0 - 30.	60	50

TEST PROCEDURE: ANSI STANDARD C63.4-2003. The spectrum was scanned from .15 to 30 MHz.

TEST DATA:

THE PLOTS ON THE NEXT PAGES REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.

TEST RESULTS: Both lines were observed. The measurements indicate that the unit DOES appear to meet the FCC requirements for this class of equipment.

PERFORMED BY: Mario de Aranzeta **DATE:** 2/28/2005

APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
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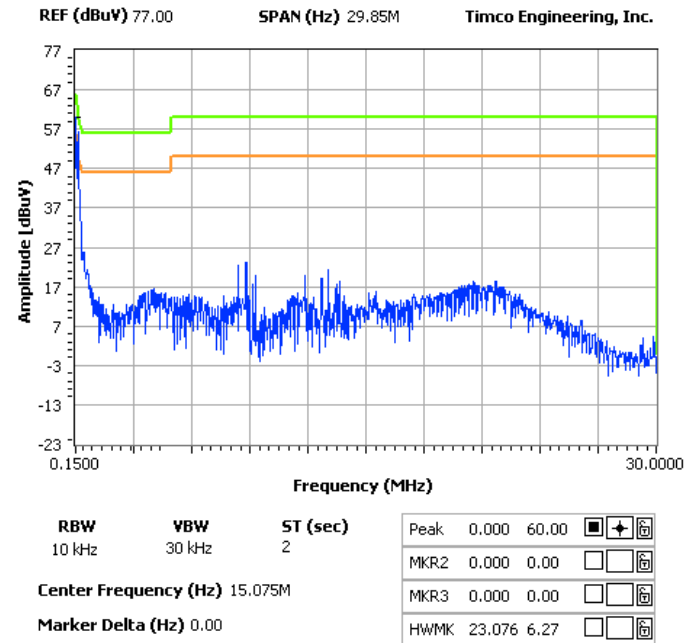
<http://www.timcoengr.com>

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NOTES:

429eut5 ac line conducted line 1
class B

FCC 15.107 Mask Class B



APPLICANT: INVIVO CORP.

FCC ID: S6WDR3160BAS

REPORT #: I\INVIVO\429BUT5\429BUT5TestReport.doc

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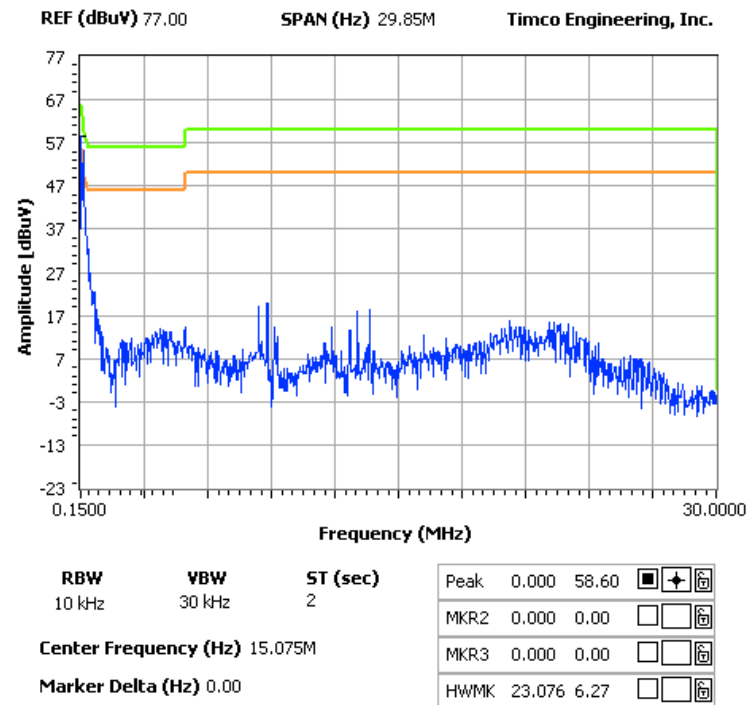
<http://www.timcoengr.com>

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NOTES:

429eut5 ac line conducted line 2
class B

FCC 15.107 Mask Class B



APPLICANT: INVIVO CORP.

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APPLICANT: INVIVO CORP.

FCC ID: S6WDR3160BAS

NAME OF TEST: Spurious emissions
Three transmitters transmitting simultaneously

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH	FIELD STRENGTH	15.209
of Fundamental: 902-928 MHz 2.4-2.4835 GHz 94 dBuV/m @3m	of Harmonics 54 dBuV/m @3m	30 - 88 MHz 40 dBuV/m @3M 88 - 216 MHz 43.5 216 - 960 MHz 46 ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

TEST RESULTS: This unit DOES meet the FCC requirements.

TEST DATA: Three transmitters transmitting simultaneously

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Duty Cycle Factor	Field Strength Averaged	Margin dB
2,315.00	28.3	V	3.12	32.08	23.10	40.4	13.60
2,367.40	22.6	H	3.16	32.23	23.10	34.89	19.11
2,368.00	31.7	V	3.16	32.23	23.10	43.99	10.01
2,483.70	38.6	V	3.24	32.55	23.10	51.29	2.71
2,535.00	26.1	H	3.27	32.64	23.10	38.91	15.09
2,535.50	36.2	V	3.27	32.64	23.10	49.01	4.99
2,540.00	16.3	H	3.28	32.65	23.10	29.13	24.87
2,568.40	32.4	V	3.30	32.68	23.10	45.28	8.72
2,575.00	19.1	H	3.30	32.69	23.10	31.99	22.01
2,748.50	11.4	V	3.42	32.90	23.10	24.62	29.38
4,924.00	18.2	V	4.96	34.44	23.10	34.5	19.50
4,933.00	11.0	V	4.97	34.45	23.10	27.32	26.68

APPLICANT: INVIVO CORP.
FCC ID: S6WDR3160BAS
REPORT #: I\INVIVO\429BUT5\429BUT5TestReport.doc