



Test Report:	6W65912
Applicant:	Tag Inc. 134 Avro Street Montreal, QC H9P 2X8
Apparatus:	EVI-TAG3
FCC ID:	T9R-TAG3
In Accordance With:	FCC Part 15 Subpart C, 15.247 FHSS System and Digitally Modulated Radiators 902-928MHz, 2400 - 2483.5 MHz, 5725-5850MHz
Tested By:	Nemko Canada Inc. 303 River Road Ottawa, Ontario K1V 1H2
Authorized By:	Jin Xu, Wireless Specialist
Date:	May 25, 2006

27

Total Number of Pages:

REPORT SUMMARY
Report Number: 6W65912

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

Report Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C. Radiated tests were conducted in 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.

The assessment summary is as follows:

Apparatus Assessed: EVI-TAG3

Specification: FCC Part 15 Subpart C, 15.247

Compliance Status: Complies

Exclusions: None

Non-compliances: None

Report Release History: Original Release

Author: Jason Nixon, Telecom Specialist

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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SECTION 1 : EQUIPMENT UNDER TEST

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Section 1 : Equipment Under Test

1.1 Product Identification

The Equipment Under Test was identified as follows:

EVI-TAG3

1.2 Samples Submitted for Assessment

The following samples of the apparatus have been submitted for type assessment:

Sample No.	Description	Serial No.
2	EVI-TAG3 (Track@2.404)	None
3	EVI-TAG3 (Track@2.437)	None
4	EVI-TAG3 (Track@2.472)	None
7	EVI-TAG3 (Swamp@2.437)	None

The first samples were received on: May 3, 2006

1.3 Theory of Operation

The EUT is an RFID tag used in automobiles.

1.4 Technical Specifications of the EUT

Manufacturer: Tag Inc

Operating Frequency: 2404 – 2472MHz

Peak Output Power: 15.41dBm (0.035W)

Emission Designator F1D

Modulation: GFSK

Antenna Connector: Integral

Power Source: 3.6VDC battery

SECTION 2: TEST CONDITIONS

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Section 2: Test Conditions

2.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart C, 15.247 FHSS System and Digitally Modulated Radiators 902-928MHz, 2400 - 2483.5 MHz, 5725-5850MHz

2.2 Deviations From Laboratory Test Procedures

No deviations were made from laboratory test procedures.

2.3 Test Environment

All tests were performed under the following environmental conditions:

Temperature range : 15-30 °C Humidity range : 20-75 % Pressure range : 86-106 kPa

Power supply range : +/- 5% of rated voltages

2.4 Test Equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next Cal.
Spectrum Analyzer	Rohde & Schwarz	FSP	FA001920	March 17/07
Horn Antenna #1	EMCO	3115	FA000649	Jan. 12/07
Horn 18 – 26.5 GHz	Electro-Metrics	SH-50/60-1	FA000479	COU
1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	July 14/06
2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	July 14/06
4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	July 14/06
5.0 – 18.0 GHz Amplifier	NARDA	DWT-186N23U40	FA001409	COU
18.0 – 26.0 GHz Amplifier	NARDA	BBS-1826N612	FA001550	COU
Log Periodic Antenna #1	EMCO	LPA-25	FA000477	Aug. 29/06
Biconical (2) Antenna	EMCO	3109	FA000904	Aug. 26/06

COU - Cal On Use

SECTION 3 : OBSERVATIONS

Report Number: 6W65912

Specification: FCC Part 15 Subpart C, 15.247

FCC ID: T9R-TAG3

Section 3: Observations

3.1 Modifications Performed During Assessment

No modifications were performed during assessment.

3.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

3.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

3.4 Test Deleted

No Tests were deleted from this assessment.

3.5 Additional Observations

There were no additional observations made during this assessment.

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SECTION 4: RESULTS SUMMARY

Report Number: 6W65912

Specification: FCC Part 15 Subpart C, 15.247

Section 4 : Results Summary

This section contains the following:

FCC Part 15 Subpart C: Test Results

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

No: not applicable / not relevant.

Y Yes: Mandatory i.e. the apparatus shall conform to these tests.

N/T Not Tested, mandatory but not assessed. (See section 3.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

4.1 FCC Part 15 Subpart C : Test Results

Part 15	Test Description	Required	Result
15.207(a)	Powerline Conducted Emissions	N	
15.209(a)	Radiated Emissions within Restricted Bands	Y	PASS
15.247(a)(1)	Frequency hopping systems	N	17100
15.247(a)(2)	Systems using digital modulation techniques	Y	PASS
15.247(b)(1)	Maximum peak output power of Frequency hopping systems operating in the 2400-2483.5 MHz band and 5725-5850 MHz band	N	
15.247(b)(2)	Maximum peak output power of Frequency hopping systems operating in the 902-928 MHz band	N	
15.247(b)(3)	Maximum peak output power of systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands	Y	PASS
15.247(b)(4)	Maximum peak output power	Υ	PASS
15.247(c)(1)	Fixed point-to-point Operation with directional antenna gains greater than 6 dBi	N	
15.247(c)(2)	Transmitters operating in the 2400-2483.5 MHz band that emit multiple directional beams	N	
15.247(d)	Radiated Emissions Not in Restricted Bands	Υ	PASS
15.247(e)	Power Spectral Density for Digitally Modulated Devices	Υ	PASS
15.247(f)	Time of Occupancy for Hybrid Systems	N	

Notes:

APPENDIX A: TEST RESULTS

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Appendix A: Test Results

Clause 15.209(a) Radiated Emissions within Restricted Bands

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance	
(MHz)	(microvoltsmeter	r) (meters)	
0.009-0.490	2400/F (kHz)	300	
0.490-1.705	24000/F (kHz)	30	
1.705-30.0	30	30	
30-88	100	3	
88-216	150	3	
216-960	200	3	
Above 960	500	3	

Test Conditions:

Sample Number:	2, 3, 4	Temperature:	24
Date:	May 3, 2006	Humidity:	21
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

See Attached Table for Results

Additional Observations:

The Spectrum was searched from 30MHz to 25GHz.

These results apply to emissions found in the Restricted bands defined in FCC Part 15 Subpart C, 15.205.

The EUT was measured on three orthogonal axis. The EUT was tested with a fresh new battery.

Measurements below 1GHz were performed using a Peak detector with 100kHz RBW/VBW and measurements above 1GHz were performed with a Peak detector with 1MHz RBW/VBW.

APPENDIX A: TEST RESULTS

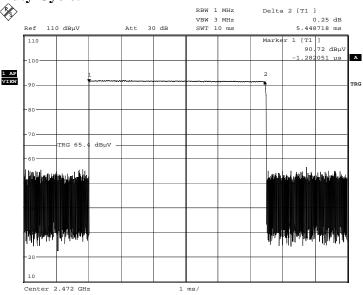
Report Number: 6W65912

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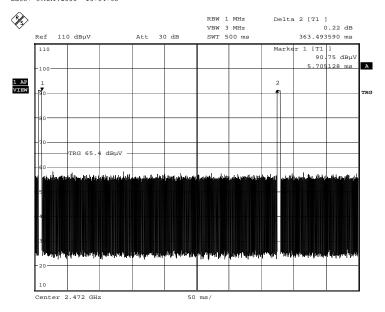
	Frequency (MHz)	Antenna	Polarity	RCVD Signal (dBuV)	Ant. Factor (dB)	Cable Loss	Duty Cycle Corr.	Distance Correction	Emission Level (dBuV/m)	(dBuV/m)	0	Detector
						(dB)			59.4	74.0	14.6	Peak
1	4808.0000	Horn1	V	72.2	33.4	-46.2	-25.3	0.0	34.1	54.0	19.9	Average
	1000 0000	TT 1		75.0	22.5	46.0	25.2	0.0	62.3	74.0	11.7	Peak
2	4808.0000	Horn1	Н	75.0	33.5	-46.2	-25.3	0.0	37.0	54.0	17.0	Average
2	7212.0000	II.am 1	V	68.5	26.5	12.6	25.2	0.0	61.4	74.0	12.6	Peak
3	7212.0000	Horn1	V	08.3	36.5	-43.6	-25.3	0.0	36.1	54.0	17.9	Average
4	7212.0000	Horn1	Н	70.3	36.7	-43.6	-25.3	0.0	63.5	74.0	10.5	Peak
_	7212.0000	1101111	11	70.5	30.7	-45.0	-23.3	0.0	38.2	54.0	15.8	Average
5	12020.000	Horn1	V	71.8	39.7	-35.9	-25.3	9.5	66.1	74	7.9	Peak
	12020.000	1101111	•	71.0	37.1	33.7		7.5	40.8	54	13.2	Average
6	12020.000	Horn1	Н	69.5	39.9	-35.9	-25.3	9.5	64.0	74	10.0	Peak
	12020.000								38.7	54	15.3	Average
7	4874.0000	Horn1	V	68.3	33.4	-45.9	-25.3	0.0	55.9	74.0	18.1	Peak
									30.6	54.0	23.4	Average
8	4874.0000	Horn1	Н	68.8	33.5	-45.9	-25.3	0.0	56.5	74.0	17.5	Peak
									31.2	54.0	22.8	Average
9	7311.0000	Horn1	V	65.3	36.5	-43.0	-25.3	0.0	58.9	74.0	15.1	Peak
									33.6	54.0	20.4	Average
10	7311.0000	Horn1	Н	67.2	36.7	-43.0	-25.3	0.0	60.9	74.0	13.1	Peak
									35.6	54.0	18.4	Average
11	12185.000	Horn1	V	64.3	39.6	-35.9	-25.3	9.5	58.5	74 5.4	15.5	Peak
									33.2	54	20.8	Average
12	12185.000	Horn1	Н	67.9	39.7	-35.9	-25.3	9.5	62.2 36.9	74 54	11.8 17.1	Peak
									60.4	74.0	13.6	Average
13	4944.0000	Horn1	V	72.8	33.4	-45.9	-25.3	0.0	35.1	54.0	18.9	Peak Average
									59.5	74.0	14.5	Peak
14	4944.0000	Horn1	Н	71.8	33.5	-45.9	-25.3	0.0	34.2	54.0	19.8	Average
									59.7	74.0	14.3	Peak
15	7416.0000	Horn1	V	66.0	36.5	-42.7	-25.3	0.0	34.4	54.0	19.6	Average
1.	F.41 < 0000	TT 4	**		265	46.7	25.3	0.0	60.6	74.0	13.4	Peak
16	7416.0000	Horn1	Н	66.7	36.7	-42.7	-25.3	0.0	35.3	54.0	18.7	Average
17	10070 000	II. 1	3.7	<i>c</i> 0. <i>c</i>	20. 5	25.0	25.2	0.7	54.6	74	19.4	Peak
17	12360.000	Horn1	V	60.5	39.5	-35.9	-25.3	9.5	29.3	54	24.7	Average
10	12260 000	II 1	7.7	(2.0	20.5	25.0	25.2	0.5	56.9	74	17.1	Peak
18	12360.000	Horn1	Н	62.8	39.5	-35.9	-25.3	9.5	31.6	54	22.4	Average

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Duty Cycle:



Duty Cycle - On-Time
Date: 3.MAY.2006 15:54:38



Duty Cycle - Time between Data Date: 3.MAY.2006 15:53:16

Duty cycle = $20\log(5.449/100) = -25.3$ dB

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Clause 15.247(a)(2) Systems using digital modulation techniques

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

Test Conditions:

Sample Number:	2, 3, 4	Temperature:	24
Date:	May 3, 2006	Humidity:	21
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results:

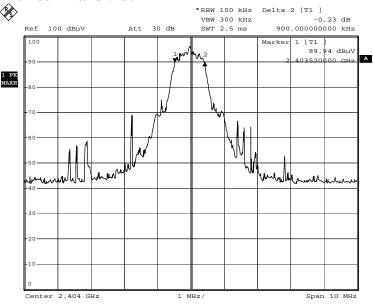
6dB Bandwidth:

Channel Frequency	6dB Bandwidth
2404	900.0kHz
2437	945.5kHz
2472	897.4kHz

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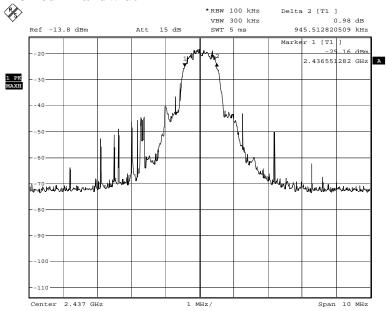
FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

2404 6dB Bandwidth



6dB Bandwidth - Low Channel Date: 5.MAY.2006 17:42:50

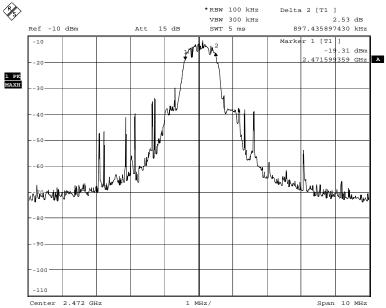
2437 6dB Bandwidth



6dB Bandwidth - Mid Channel Date: 3.MAY.2006 14:13:54

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

2472 6dB Bandwidth



6dB Bandwidth - High Channel Date: 3.MAY.2006 14:18:12

APPENDIX A: TEST RESULTS

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Clause 15.247(b)(3) Maximum peak output power of systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Conditions:

Sample Number:	2, 3, 4	Temperature:	21
Date:	May 5, 2006	Humidity:	24
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results:

Channel Frequency (MHz)	Power Output (dBm)
2404	13.08
2437	13.50
2472	15.41

Additional Observations:

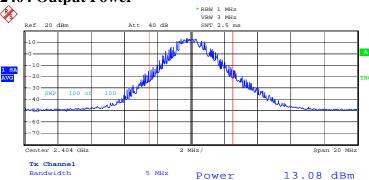
All Measurements were performed using FCC Measurement of DTS procedures (March 23, 2005) Power Output Option 2, Method #1.

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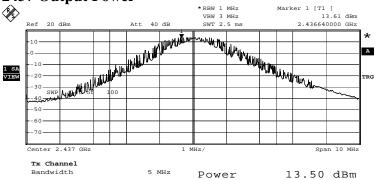
FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

2404 Output Power



Output Power - Low Channel Date: 5.MAY.2006 17:48:49

2437 Output Power



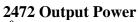
Output Power

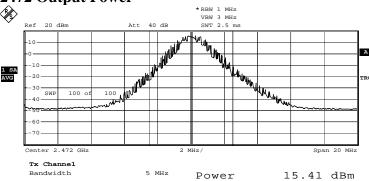
Date: 5.MAY.2006 17:00:14

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Output Power - High Channel
Date: 5.MAY.2006 17:29:52

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

Clause 15.247(b)(4) Maximum peak output power

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Conditions:

Sample Number:	2, 3, 4	Temperature:	24
Date:	May 3, 2006	Humidity:	21
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results: Radiated Output Power:

Ch.	Freq.	Pol V/H	ANT.	Rx dBuV	Ant Factor dB/m	Cable loss dB	F.S. dBuV/m
low	2404.0000	Horn1	V	84.8	28.8	4.9	118.5
	2404.0000	Horn1	Н	85.7	28.8	4.9	119.4
mid	2437.0000	Horn1	V	85.7	28.8	5.0	119.4
	2437.0000	Horn1	Н	86.0	28.8	5.0	119.8
hi	2472.0000	Horn1	V	81.7	28.8	5.0	115.5
	2472.0000	Horn1	Н	83.5	28.8	5.0	117.4

Measured value (V/m) = $10^{(FS/20)} = 0.977237221V/m$

Output Power (W) =
$$\frac{E^2R^2}{30}$$
 = 0.286W = 24.6dBmEIRP

Limit = 36dBmEIRP

E = Measured Value (V/m)

R = Measurement distance

Additional Observations:

All Measurements were performed at 3m using a 1MHz RBW/VBW.

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Clause 15.247(d) Radiated Emissions Not in Restricted Bands

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Conditions:

Sample Number:	2, 3, 4	Temperature:	24
Date:	May 3, 2006	Humidity:	21
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

See Attached Table and Plots.

Additional Observations:

The Spectrum was searched from 30MHz to 25GHz.

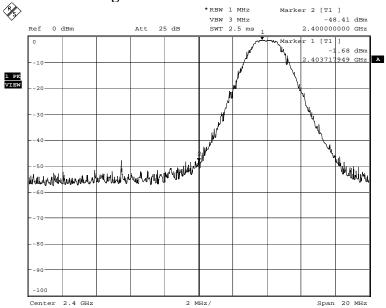
The EUT was measured on three orthogonal axis. The EUT was tested with a fresh new battery.

All emissions comply with the general limits of 15.209.

Measurements below 1GHz were performed using a Peak detector with 100kHz RBW/VBW and measurements above 1GHz were performed using a Peak detector with 1MHz RBW/VBW.

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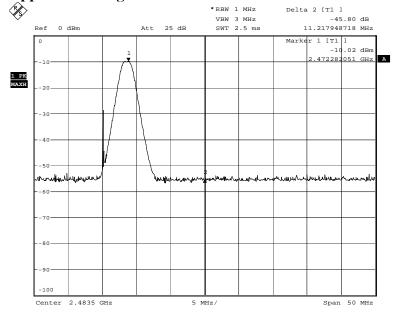
Lower Band Edge:



Lower Bandedge

Date: 3.MAY.2006 14:22:05

Upper Band Edge:



Upper Bandedge

Date: 3.MAY.2006 14:19:55

APPENDIX A : TEST RESULTS

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Specification: FCC Part 15 Subpart C, 15.247

FCC ID: T9R-TAG3

	Frequency (MHz)	Antenna	Polarity	RCVD Signal (dBuV)	Ant. Factor (dB)	Amp. Gain / Cable Loss (dB)	Duty Cycle Corr.	Distance Correction	Emission Level (dBuV/m)	Limit (dBuV/m)		Detector
1	9616.000	Horn1	V	65.3	38.4	35.9	25.3	9.5	58.2	74	15.8	Peak
									32.9	54	21.1	Average
2	9616.000	Horn1	Н	71.0	38.4	35.9	25.3	9.5	64.0 38.7	74 54	10.0 15.3	Peak Average
	1.4.42.4.000	TT 1	* 7	50.2	41.5	24.0	25.2	0.5	56.1	74	17.9	Peak
3	14424.000	Horn1	V	58.2	41.5	34.0	25.3	9.5	30.8	54	23.2	Average
4	14424.000	Horn1	Н	58.9	41.4	34.0	25.3	9.5	56.8	74	17.2	Peak
4	14424.000	1101111	11	30.9	41.4	34.0	23.3	9.3	31.5	54	22.5	Average
3	16828.000	Horn1	V	54.7	41.7	31.8	25.3	9.5	55.1	74	18.9	Peak
5	10020.000	1101111	,	34.7	71.7	31.0	23.3	7.5	29.8	54	24.2	Average
4	16828.000	Horn1	Н	54.6	41.7	31.8	25.3	9.5	55.0	74	19.0	Peak
	10020.000	1101111	11	J -1. 0	71.7	31.0	23.3	7.5	29.7	54	24.3	Average
3	9748.000	Horn1	V	58.5	38.5	35.9	25.3	9.5	51.6	74	22.4	Peak
	<i>77</i> 10.000	1101111	•	50.5	30.3		23.3	7.5	26.3	54	27.7	Average
4	9748.000	Horn1	Н	64.4	38.5	35.9	25.3	9.5	57.5	74	16.5	Peak
	<i>y,</i> .0.000								32.2	54	21.8	Average
3	14622.000	Horn1	V	52.4	41.2	34.0	25.3	9.5	50.0	74	24.0	Peak
	1.022.000		·			2			24.7	54	29.3	Average
4	14622.000	Horn1	Н	52.3	41.1	34.0	25.3	9.5	49.9	74	24.1	Peak
									24.6	54	29.4	Average
3	17059.000	Horn1	V	47.6	42.6	31.8	25.3	9.5	49.0	74	25.0	Peak
									23.7	54	30.3	Average
4	17059.000	Horn1	Н	49.4	42.6	31.8	25.3	9.5	50.7	74	23.3	Peak
									25.4	54	28.6	Average
3	9888.000	Horn1	V	60.3	38.6	35.9	25.3	9.5	53.4	74	20.6	Peak
									28.1	54	25.9	Average
4	9888.000	Horn1	Н	67.1	38.7	35.9	25.3	9.5	60.3	74	13.7	Peak
									35.0	54	19.0	Average
3	14832.000	Horn1	V	51.9	40.6	34.0	25.3	9.5	49.1	74	24.9	Peak
									23.8	54	30.2	Average
4	14832.000	Horn1	Н	53.1	40.5	34.0	25.3	9.5	50.1	74	23.9	Peak
									24.8	54	29.2	Average
3	17304.000	Horn1	V	49.4	42.8	31.8	25.3	9.5	50.9	74	23.1	Peak
									25.6	54	28.4	Average
4	17304.000	Horn1	Н	50.6	42.8	31.8	25.3	9.5	52.2	74	21.8	Peak
									26.9	54	27.1	Average
3	14832.000	Horn1	V	51.9	40.6	34.0	25.3	9.5	49.1	74	24.9	Peak
									23.8	54	30.2	Average

APPENDIX A: TEST RESULTS

Report Number: 6W65912

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

Clause 15.247(e) Power Spectral Density for Digitally Modulated Devices

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Conditions:

Sample Number:	2, 3, 4	Temperature:	21
Date:	May 5, 2006	Humidity:	24
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results:

Channel Frequency (MHz)	PSD (dBm)
2404	1.26
2437	0.34
2472	1.75

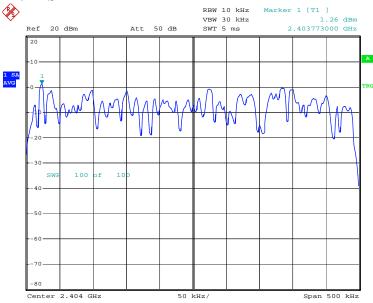
Additional Observations:

All Measurements were performed using FCC Measurement of DTS (March 23, 2005) PSD Option #2

The EUT was modified to perform the measurement conducted.

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

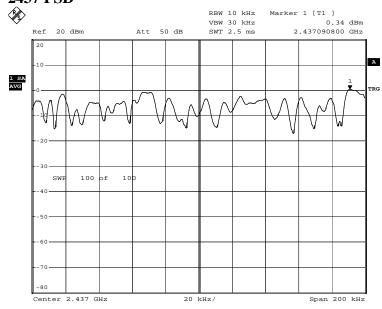
2404 PSD



PSD - Low Channel

Date: 5.MAY.2006 17:50:28

2437 PSD



PSD

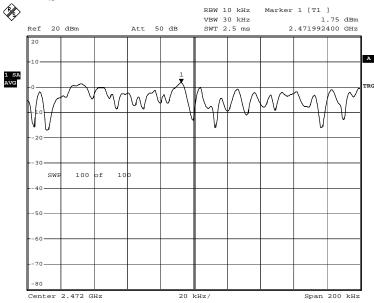
Date: 5.MAY.2006 17:17:16

APPENDIX A: TEST RESULTS

Report Number: 6W65912

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247





PSD - High Channel

Date: 5.MAY.2006 17:31:22

FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

Appendix B : Setup Photographs

Spurious Emissions Setup:





APPENDIX B: SETUP PHOTOGRAPHS

Report Number: 6W65912

Specification: FCC Part 15 Subpart C, 15.247

FCC ID: T9R-TAG3



FCC ID: T9R-TAG3 Specification: FCC Part 15 Subpart C, 15.247

Appendix C : Block Diagram of Test Setups

Test Site For Radiated Emissions

