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**FCC PART 15.247 DIRECT SEQUENCE
 CLASS II PERMISSIVE CHANGE TEST REPORT**

APPLICANT	ROOT INC.
ADDRESS	8F 2nd TOC BUILDING 7-21-11 NISHI-GOTANDA, SHINAGAWA-KU TOKYO JAPAN
FCC ID	NN4RZ2009
MODEL NUMBER	N/A
PRODUCT DESCRIPTION	802.11b/g mini PCI card
DATE SAMPLE RECEIVED	July 17, 2006
DATE TESTED	July 24, 2006
TESTED BY	Nam Nguyen
APPROVED BY	Mario de Aranzeta C.E.T.
TIMCO REPORT NO.	2118BJT6TestReport
TEST RESULTS	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT
 THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**



Certificate # 0955-01



Certificate # 0955-01

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STATEMENT OF COMPLIANCE

This equipment has been tested in accordance with the standards identified in the referenced test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards.

I attest that the necessary measurements were made by me or under my supervision, at Timco Engineering, Inc. located at 849 N.W. State Road 45, Newberry, Florida 32669 USA.

Authorized by: Mario de Aranzeta

Signature:

Function: Engineer

Date: July 19, 2006

Tested by: Nam Nguyen

Signature: on file

Date: July 17, 2006



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GENERAL INFORMATION

Test Report Purpose: The test report adds four antenna systems to the previously approved test article, which was tested under FCC Part 15.247 and modularly approved as FCC ID: NN4RZ2009.

Test Results: The test results relate only to the items tested.

Test Article:

FCC ID:	NN4RZ2009
Model Number:	RZ2009
Serial Number:	N/A
Product Description:	802.11b/g mini PCI card
Operating Frequency:	2412 - 2462 GHz
Max. output power (conducted):	mode 11b: 13 dBm; mode 11g: 18.2 dBm
Type of Modulation:	CCK and OFDM
Power Supply:	<i>Primary Power</i> 110VAC/50-60Hz <i>Secondary Power</i> 3.3 Vdc for module
Test Item:	Pre-Production
Type of Equipment:	Mobile
Antenna Type:	WNA-202F KA-00 CA-01 YA2418RD
Antenna Connector:	Standard connector ('N' type) Professional installation required

Modification to the EUT: none

Description of certified system: The system consists of a mini PCI module and the following antenna systems:

- 3 dB of loss in the coaxial cable and a WNA-202F patch antenna
- 6 dB of loss in the coaxial cable and a KA-00 Cardioid antenna
- 3 dB of loss in the coaxial cable and a CA-01 Omni antenna
- 10 dB of loss in the coaxial cable and a YA2418RD Yagi antenna

The test platform (host) was the applicants AT-TQ5528 router system.



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Test Facilities: All measurements were made at one or more of the test sites of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45, Newberry, FL 32669.

Test Exercise (e.g software description, test signal, etc.): The EUT was set in continuous transmit mode of operation.

Test Conditions: All the tests were performed at a temperature of 78°F and a relative humidity of 55%.

Test Standards: ANSI C63.4: 2003, FCC Part 15.247



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EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/11/06	1/10/09
Biconnical Antenna	Eaton	94455-1	1057	CAL 12/12/05	12/12/07
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Analyzer Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 12/8/05	12/8/07
Analyzer Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 12/8/05	12/8/07
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 12/7/05	12/7/07
Analyzer Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 12/7/05	12/7/07
LISN	Electro-Metrics	ANS-25/2	2604	CAL 8/27/04	8/27/06
LISN	Electro-Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Log-Periodic Antenna	Eaton	96005	1243	CAL 12/14/05	12/14/07

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TEST PROCEDURE

Power Line Conducted Interference: The procedure used was ANSI STANDARD C63.4-2003 using a 50uH LISN. The spectrum was scanned from .15 to 30 MHz. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

Bandwidth 6 dB: The measurements were made with the spectrum analyzer's resolution bandwidth (RBW) = 100kHz and the video bandwidth (VBW) = 3 MHz and the span set as shown on plot.

Power Output: The RF power output was measured at the antenna feed point using a peak power meter.

Antenna Conducted Emissions: The RBW = 100 kHz, VBW = 300 kHz with the span set to 10 MHz the spectrum was scanned from lowest frequency used in the EUT to the 10th harmonic of the fundamental. Above 1 GHz the RBW was 1 MHz and the VBW was 3 MHz and the span equal to 50 MHz.

Radiation Interference: The test procedure used was ANSI STANDARD C63.4-2003 using an Agilent spectrum receiver with pre-selector. The bandwidth (RBW) of the spectrum receiver was 100 kHz up to 1 GHz and 1 MHz above 1 GHz with an appropriate sweep speed. The VBW above 1 GHz was 3 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

Radiated Spurious Emissions Into Adjacent Restricted Band: An in band field strength measurement of the fundamental Emission using the RBW and detector function required by C63.4-2003 and FCC Rules. The procedure was repeated with an average detector and a plot made.



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FIELD STRENGTH OF SPURIOUS EMISSIONS

Rules Part No.: 15.247(c), 15.205, & 15.209(b)

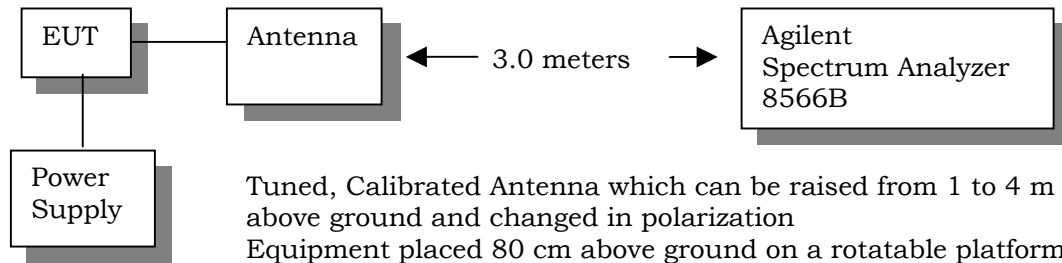
Requirements:

Frequency	Fundamental Limits	Field Strength Limits
902 - 928 MHz	127.37dBuV/m @3M	54 dBuV/m @3M
2.4 GHz	127.37 dBuV/m @3M	54 dBuV/m @3M

Frequency (MHz)	Limits
30 - 88 MHz	40 dBuV/m @3M
88 - 216 MHz	43 dBuV/m @3M
216 - 960 MHz	46 dBuV/m @3M
Above 960 MHz	54 dBuV/m @3M

Emissions that fall in the restricted bands (15.205) must be less than or equal to 500 uV/m (54 dBuV/m). Spurious not in a restricted band must be 20 dBc. Harmonics were checked through the 10th harmonic.

Test Method:



Test Data: Please refer to the following data

P – Peak (all measurements are peak unless noted).

A – Average

R – Restricted



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Mode 802.11b – Antenna WNA-202F							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.00	2,412.00	70.9	V	3.19	32.35	106.44	20.94
2,412.00	1,064.00	12.5	V	2.15	27.42	42.07	11.93
2,412.00	1,592.00	13.9	V	2.57	28.75	45.22	8.78
2,412.00	2,320.00	15.5	V	3.12	32.1	50.72	3.28
2,442.00	2,442.00	71.2	V	3.21	32.44	106.85	20.53
2,442.00	1,064.00	10.2	V	2.15	27.42	39.77	14.23
2,462.00	2,462.00	69.6	V	3.22	32.49	105.31	22.07
2,462.00	1,333.00	10.1	V	2.37	27.9	40.37	13.63
2,462.00	2,236.05	11.4	V	3.07	31.86	46.33	7.67
Mode 802.11g, Antenna WNA-202F							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.00	2,412.00	74.6	V	3.19	32.35	110.14	17.24
2,412.00	1,062.00	15.2	V	2.15	27.41	44.76	9.24
2,412.00	1,198.84	14.9	V	2.26	27.66	44.82	9.18
2,412.00	1,328.24	14.5	V	2.36	27.89	44.75	9.25
2,412.00	2,320.00	16.2	V	3.12	32.1	51.42	2.58
2,442.00	2,442.00	72.7	V	3.21	32.44	108.35	19.03
2,442.00	1,063.64	16.8	V	2.15	27.41	46.36	7.64
2,442.00	1,264.08	17.1	V	2.31	27.78	47.19	6.81
2,442.00	2,240.02	11.7	V	3.07	31.87	46.64	7.36
2,442.00	2,320.01	16.8	V	3.12	32.1	52.02	1.98
2,462.00	2,462.00	72.9	V	3.22	32.49	108.61	18.77
2,462.00	1,063.12	15.8	V	2.15	27.41	45.36	8.64
2,462.00	1,255.88	10.5	V	2.3	27.76	40.56	13.44
2,462.00	2,240.07	13.8	V	3.07	31.87	48.74	5.26
2,462.00	2,320.00	17.6	V	3.12	32.1	52.82	1.18

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Mode 802.11b, Antenna KA-00							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.00	2,412.00	68.7	V	3.19	32.35	104.24	23.14
2,412.00	1,125.00	13.8	V	2.2	27.53	43.53	10.47
2,412.00	2,016.00	9.1	V	2.91	31.24	43.25	10.75
2,412.00	2,320.00	17.5	V	3.12	32.1	52.72	1.28
2,412.00	4,823.98	6.7	V	4.91	34.36	45.97	8.03
2,442.00	2,442.00	66.8	V	3.21	32.44	102.45	24.93
2,442.00	1,989.00	18.1	V	2.89	31.13	52.12	1.88
2,442.00	2,016.00	10.2	V	2.91	31.24	44.35	9.65
2,442.00	2,240.00	11.8	V	3.07	31.87	46.74	7.26
2,442.00	2,320.00	16.9	V	3.12	32.1	52.12	1.88
2,442.00	4,884.00	7.9	V	4.94	34.41	47.25	6.75
2,462.00	2,462.00	67.2	V	3.22	32.49	102.91	24.47
2,462.00	2,016.02	9.3	V	2.91	31.24	43.45	10.55
2,462.00	2,240.00	13.4	V	3.07	31.87	48.34	5.66
2,462.00	2,320.00	17.8	V	3.12	32.1	53.02	0.98
Mode 802.11g, Antenna KA-00							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity V/H	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.00	2,412.00	77.3	V	3.19	32.35	112.84	14.54
2,412.00	2,240.04	13.9	V	3.07	31.87	48.84	5.16
2,412.00	2,320.00	17.3	V	3.12	32.1	52.52	1.48
2,442.00	2,442.00	77.1	V	3.21	32.44	112.75	14.63
2,442.00	2,320.01	16.9	V	3.12	32.1	52.12	1.88
2,462.00	2,462.00	77.2	V	3.22	32.49	112.91	14.47
2,462.00	1,079.08	9.4	V	2.16	27.44	39	15
2,462.00	2,320.00	17.4	V	3.12	32.1	52.62	1.38
2,462.00	4,942.80	7.7	V	4.97	34.45	47.12	6.88

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Mode 802.11b, Antenna CA-01							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity V/H	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.00	2,412.00	72.9	V	3.19	32.35	108.44	18.94
2,412.00	1,065.90	12.4	V	2.15	27.42	41.97	12.03
2,412.00	1,328.00	11.4	V	2.36	27.89	41.65	12.35
2,412.00	1,592.70	13	V	2.57	28.76	44.33	9.67
2,442.00	2,442.00	73.4	V	3.21	32.44	109.05	18.33
2,442.00	1,125.00	11.9	V	2.2	27.53	41.63	12.37
2,442.00	1,599.50	11.6	V	2.58	28.8	42.98	11.02
2,462.00	2,462.00	73.6	V	3.22	32.49	109.31	18.07
2,462.00	1,064.00	18.2	V	2.15	27.42	47.77	6.23
2,462.00	1,331.20	18.6	V	2.36	27.9	48.86	5.14
2,462.00	1,594.50	13.9	V	2.58	28.77	45.25	8.75
2,462.00	2,326.00	15.3	V	3.13	32.11	50.54	3.46
Mode 802.11g, Antenna CA-01							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity V/H	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.10	2,412.10	75.2	V	3.19	32.35	110.74	16.64
2,412.10	1,065.20	13.3	V	2.15	27.42	42.87	11.13
2,412.10	1,331.00	13.5	V	2.36	27.9	43.76	10.24
2,412.10	1,591.70	12.3	V	2.57	28.75	43.62	10.38
2,442.10	1,200.00	12.2	V	2.26	27.66	42.12	11.88
2,442.10	2,442.10	74.7	V	3.21	32.44	110.35	17.03
2,442.10	1,332.30	14.5	V	2.37	27.9	44.77	9.23
2,442.10	1,596.60	11.4	V	2.58	28.78	42.76	11.24
2,462.10	2,462.10	76.2	V	3.22	32.49	111.91	15.47
2,462.10	1,061.90	14.7	V	2.15	27.41	44.26	9.74
2,462.10	1,328.70	14.3	V	2.36	27.89	44.55	9.45
2,462.10	1,597.40	11.1	V	2.58	28.78	42.46	11.54

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Mode 802.11b, Antenna YA2418RD							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity V/H	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.00	2,412.00	66	V	3.19	32.35	101.54	25.84
2,412.00	1,064.00	20.2	V	2.15	27.42	49.77	4.23
2,412.00	1,124.90	14.7	V	2.2	27.52	44.42	9.58
2,412.00	1,330.70	14.1	V	2.36	27.9	44.36	9.64
2,412.00	1,597.90	10.1	V	2.58	28.79	41.47	12.53
2,442.00	2,442.00	67.4	V	3.21	32.44	103.05	24.33
2,442.00	1,059.96	22.7	V	2.15	27.41	52.26	1.74
2,442.00	1,124.96	14	V	2.2	27.52	43.72	10.28
2,442.00	1,329.60	14.5	V	2.36	27.89	44.75	9.25
2,442.00	1,591.56	12.5	V	2.57	28.75	43.82	10.18
2,462.00	2,462.00	67.8	V	3.22	32.49	103.51	23.87
2,462.00	1,061.12	21.8	V	2.15	27.41	51.36	2.64
2,462.00	1,125.00	13.3	V	2.2	27.53	43.03	10.97
2,462.00	1,330.04	13	V	2.36	27.89	43.25	10.75
Mode 802.11g, Antenna YA2418RD							
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity V/H	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,412.00	2,412.00	80.9	V	3.19	32.35	116.44	10.94
2,412.00	1,124.00	15.3	V	2.2	27.52	45.02	8.98
2,442.00	2,442.00	79.5	V	3.21	32.44	115.15	12.23
2,442.00	1,027.64	13.3	V	2.12	27.35	42.77	11.23
2,442.00	1,333.08	13.7	V	2.37	27.9	43.97	10.03
2,442.00	1,597.60	13.1	V	2.58	28.79	44.47	9.53
2,462.00	2,462.00	78.9	V	3.22	32.49	114.61	12.77
2,462.00	1,124.00	14	V	2.2	27.52	43.72	10.28
2,462.00	1,361.00	10	V	2.39	27.95	40.34	13.66
2,462.00	2,297.42	12.4	V	3.11	32.03	47.54	6.46

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RADIATED SPURIOUS EMISSIONS INTO ADJACENT RESTRICTED BAND

Rules Part No.: Pt 15.205

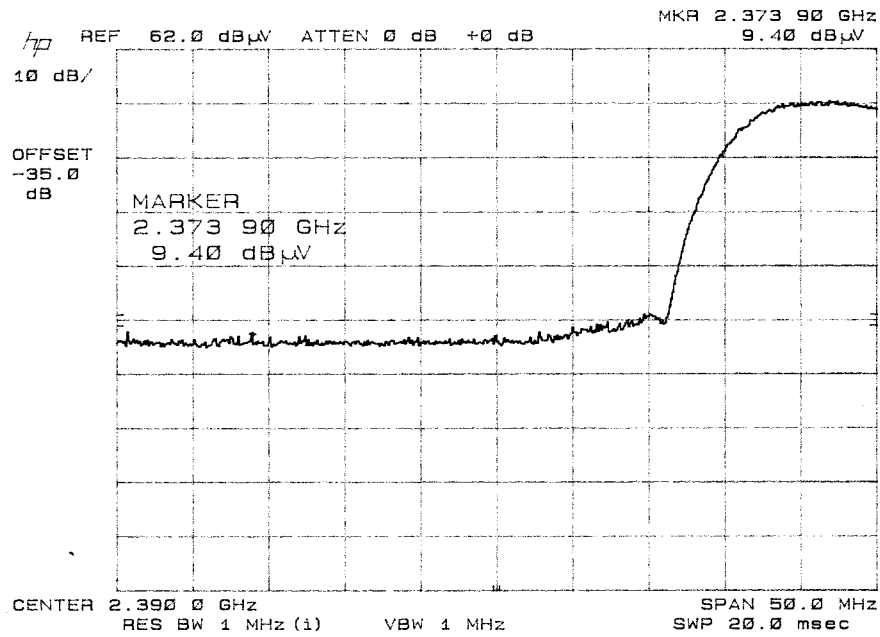
Requirements: The emissions must be less than or equal to 500 uV/m (54 dBuV/m).

Test Data: Please refer to the following plots.
Emissions greater than 20 dB below the limit are not shown.

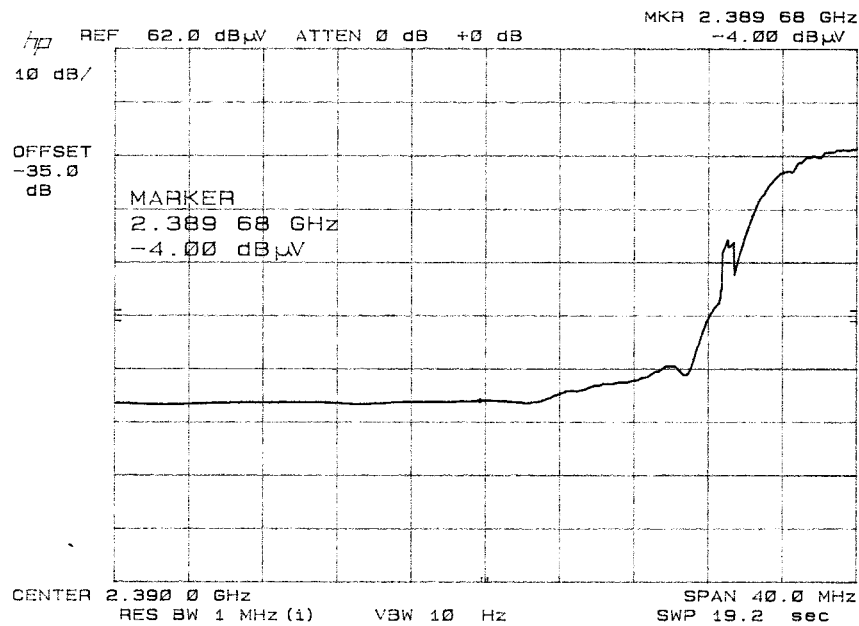


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Mode 802.11b WNA-202F - Peak F.S.= 64.86 dBuV/m



Mode 802.11b WNA-202F - Average F.S.= 51.46 dBuV/m



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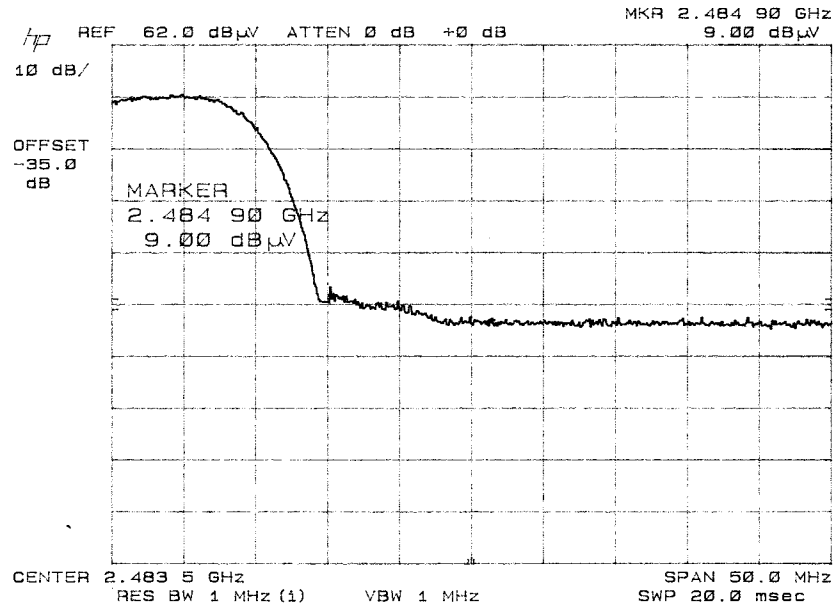
FCC ID: NN4RZ2009

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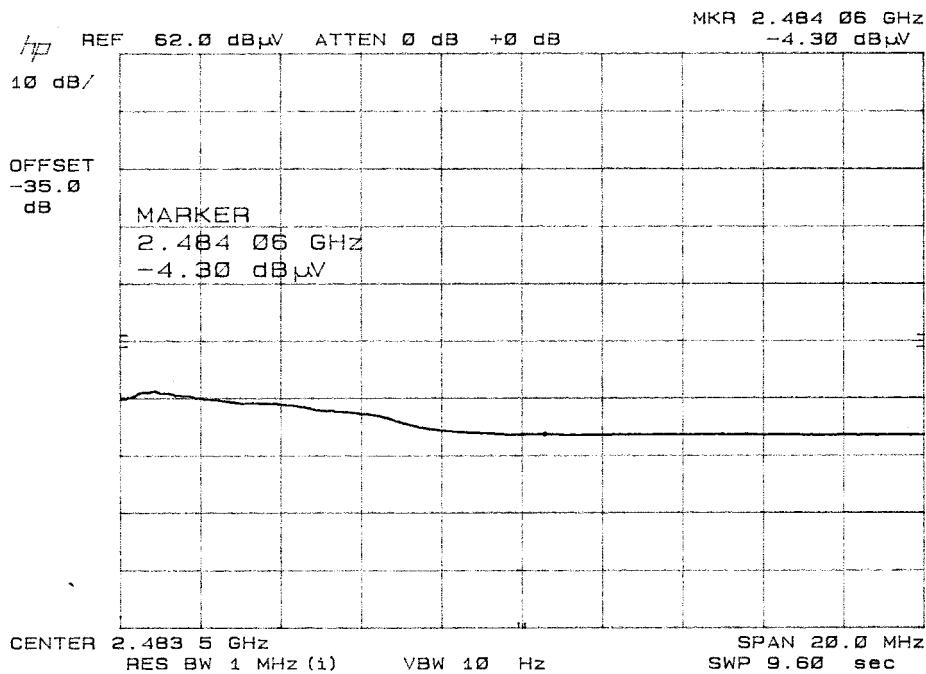


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Mode 802.11b WNA-202F - Peak F.S.= 64.80dBuV/m



Mode 802.11b WNA-202F - Average F.S.= 51.50 dBuV/m



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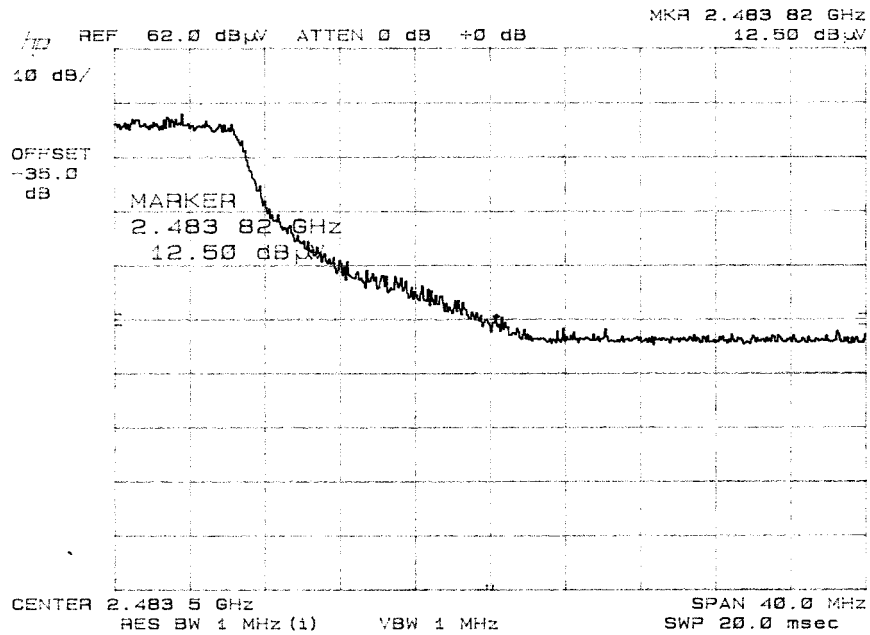
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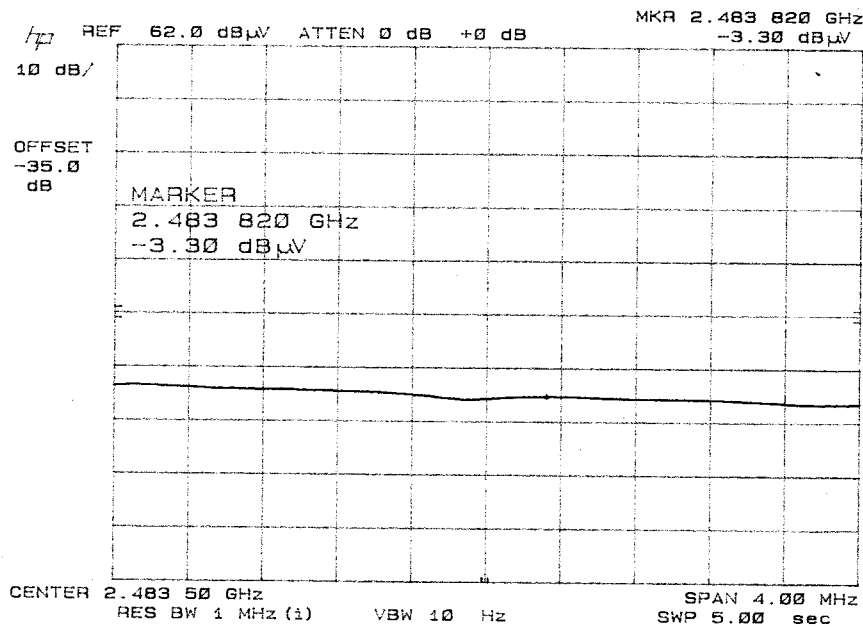
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Mode 802.11g - WNA-202F - Peak F.S.= 68.30 dBuV/m

+ 3 db gain



mode 802.11g - WNA-202F - Average F.S.= 52.50 dBuV/m



APPLICANT: ROOT Inc.

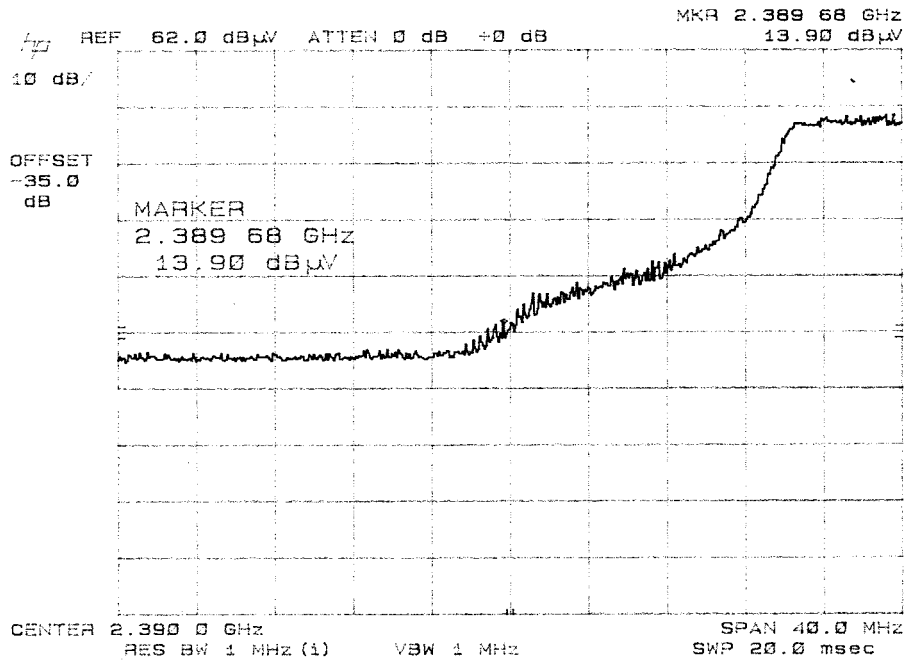
FCC ID: NN4RZ2009

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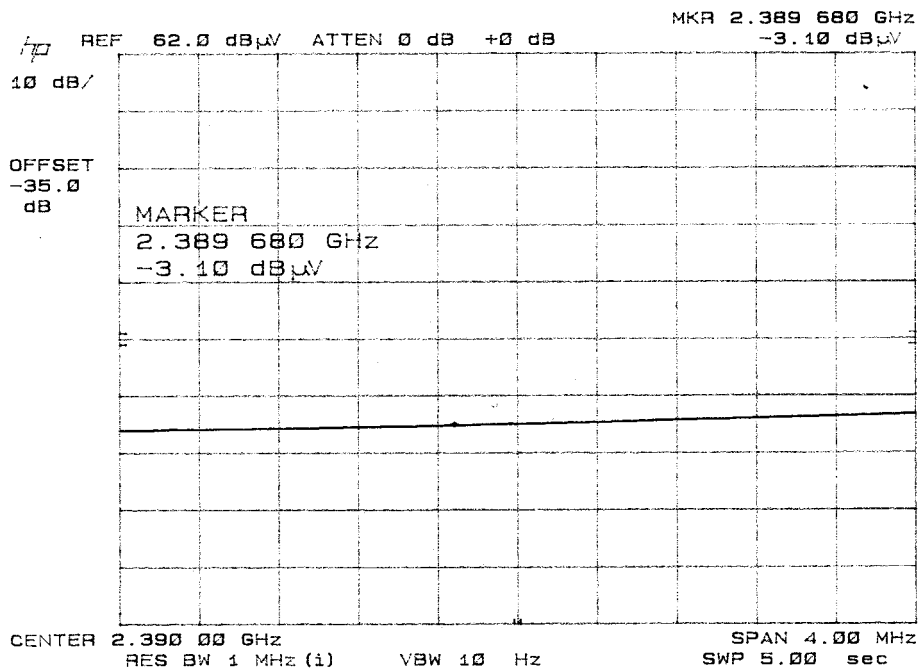


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Mode 802.11g - WNA-202F - Peak F.S.= 69.70 dBuV/m



Mode 802.11g - WNA-202F - Average F.S.= 52.70 dBuV/m



APPLICANT: ROOT Inc.

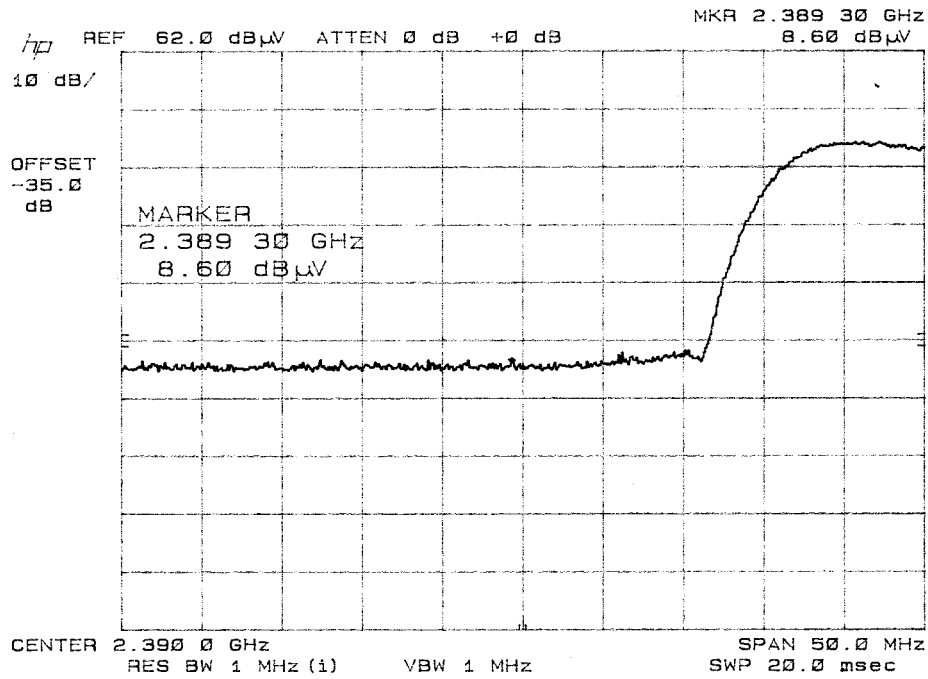
FCC ID: NN4RZ2009

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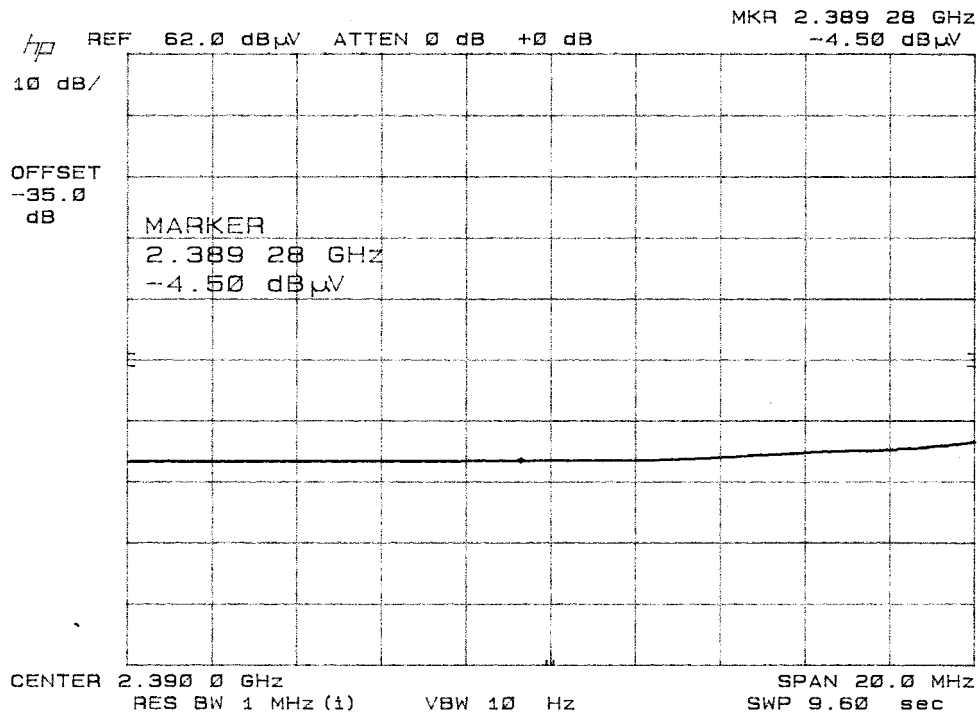


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Mode 802.11b KA-00 - Peak F.S.= 64.06 dBuV/m



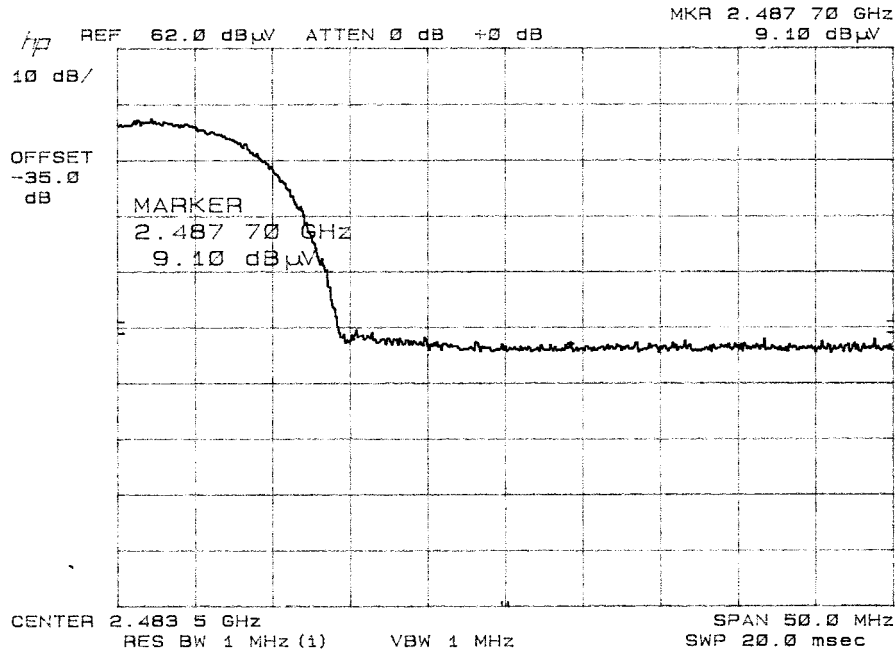
Mode 802.11b KA-00 - Average F.S.= 50.96 dBuV/m



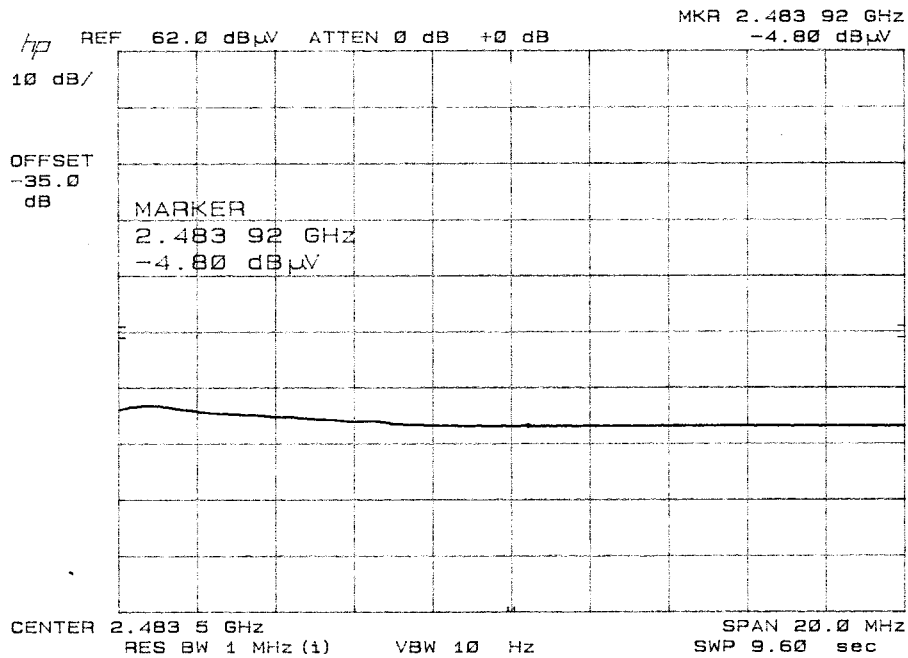


Certificate # 0955-01

Mode 802.11b KA-00 - Peak F.S.= 64.90 dBuV/m



Mode 802.11b KA-00 - Average F.S.= 51.00 dBuV/m



APPLICANT: ROOT Inc.

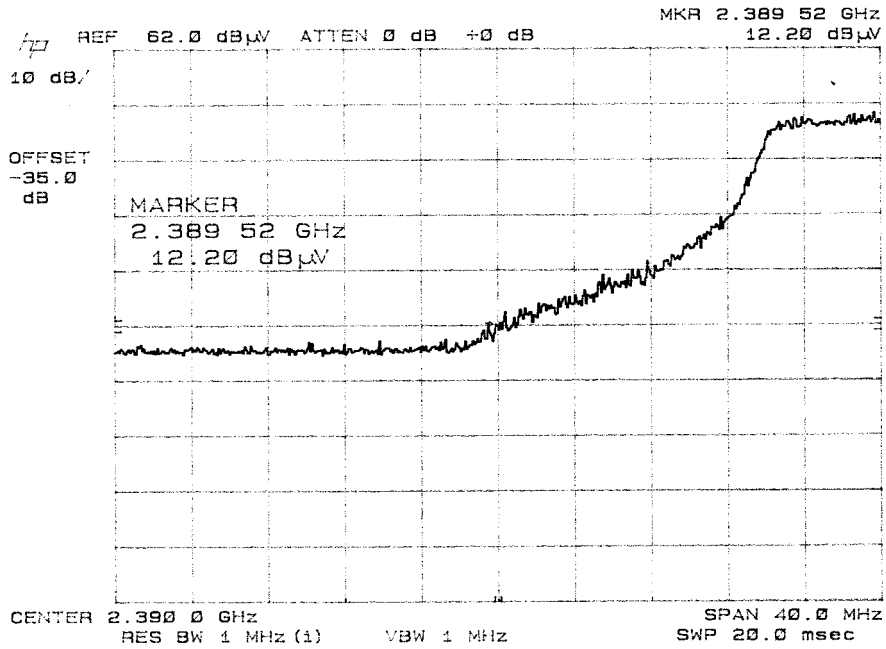
FCC ID: NN4RZ2009

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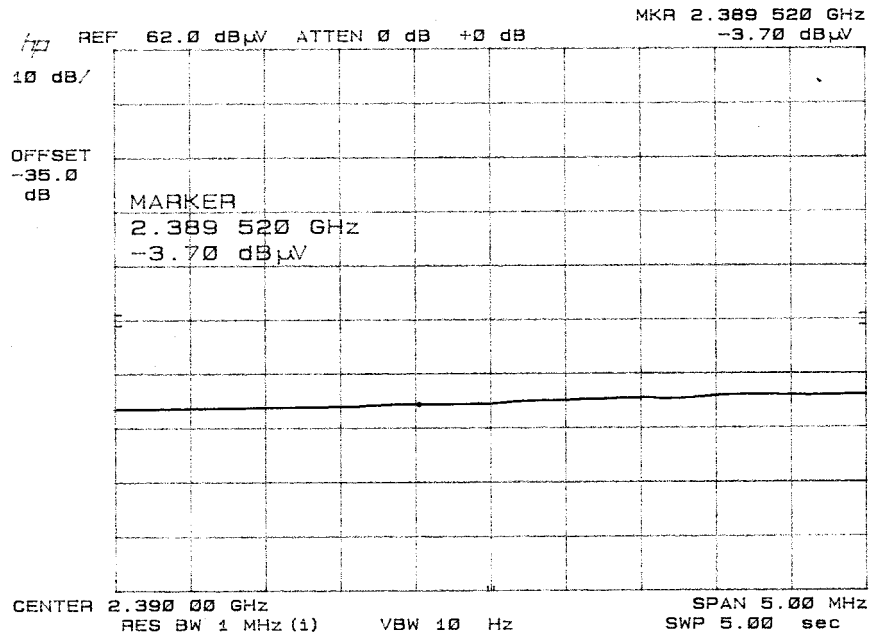


Certificate # 0955-01

Mode 802.11g KA-00 - Peak F.S.= 68.00 dBuV/m



Mode 802.11g KA-00 - Average F.S.= 52.10 dBuV/m



APPLICANT: ROOT Inc.

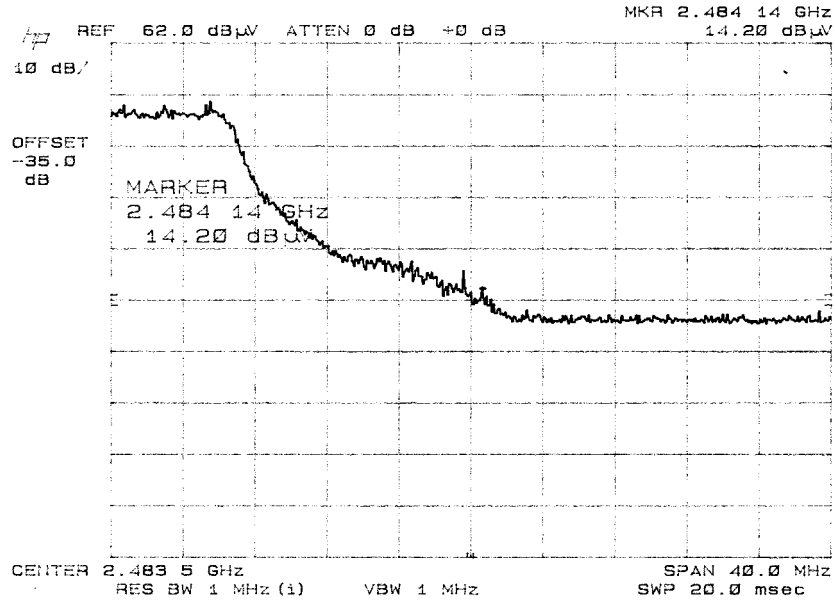
FCC ID: NN4RZ2009

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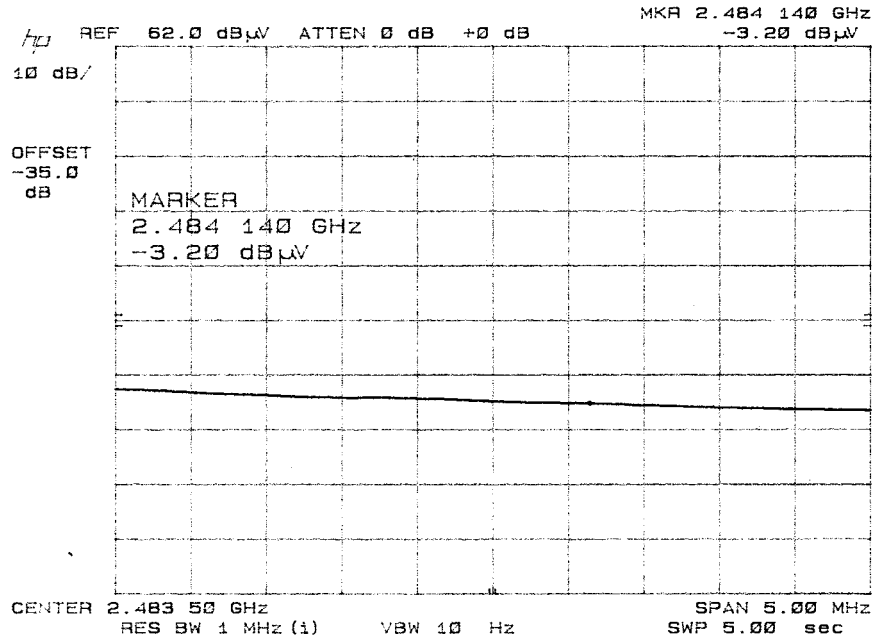


Certificate # 0955-01

mode 802.11g KA-00 Peak F.S.= 70.00 dBuV/m



Mode 802.11g KA-00 - Average F.S.= 52.60 dBuV/m



APPLICANT: ROOT Inc.

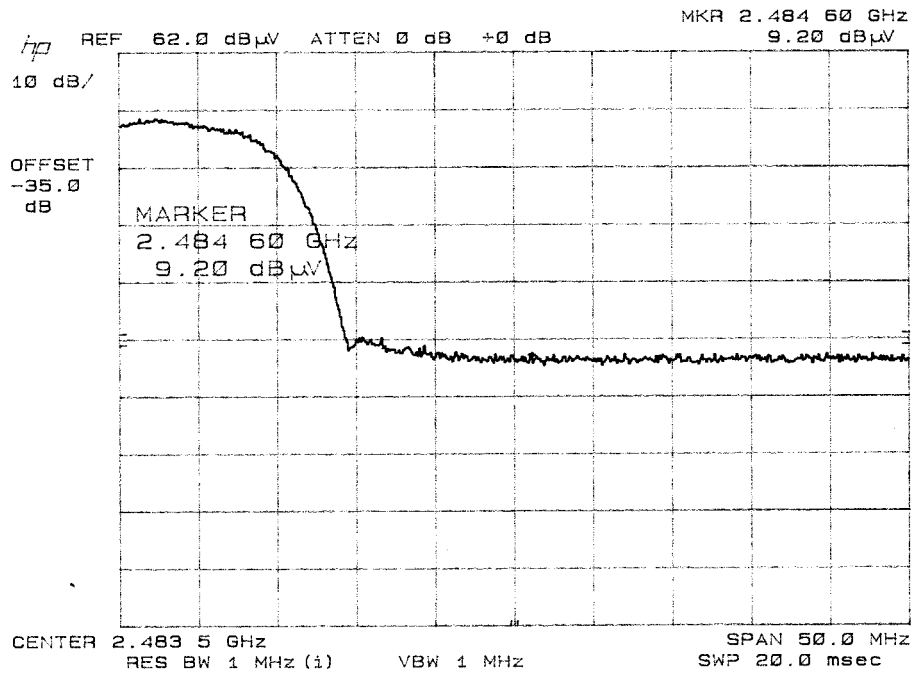
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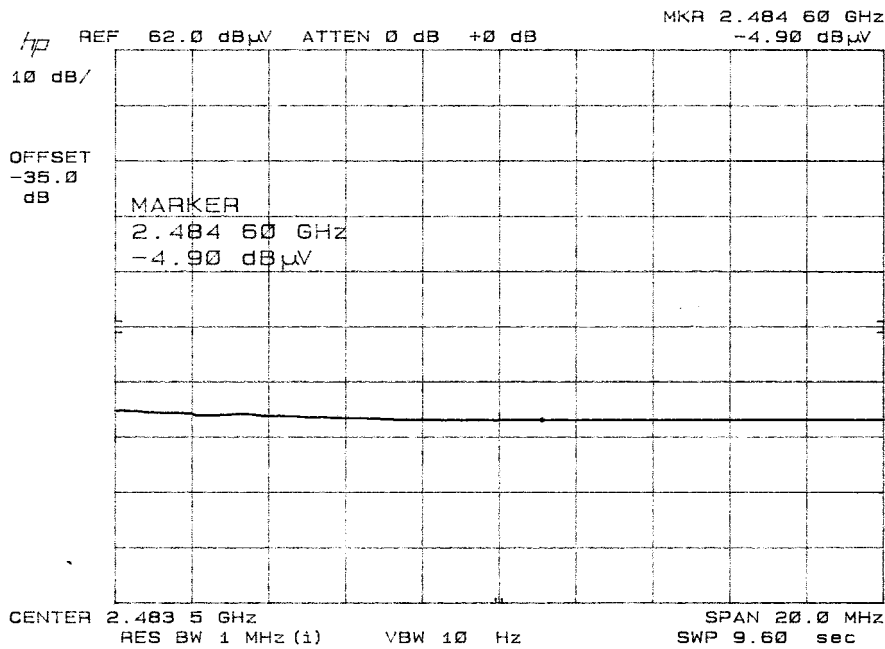


Certificate # 0955-01

Mode 802.11b CA-01 - Peak F.S.= 65.00 dBuV/m



Mode 802.11b CA-01 - Average F.S.= 50.90 dBuV/m



APPLICANT: ROOT Inc.

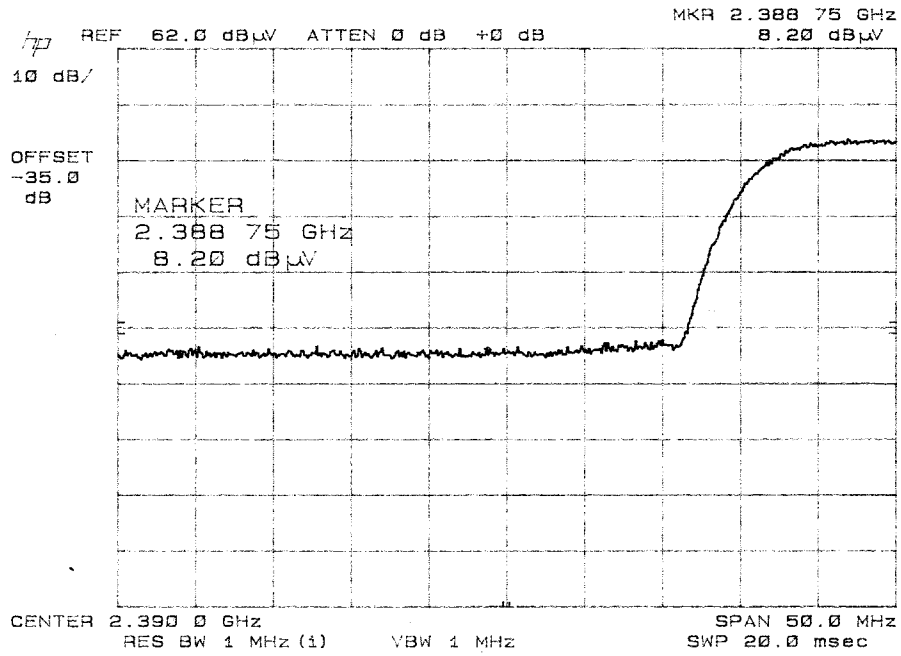
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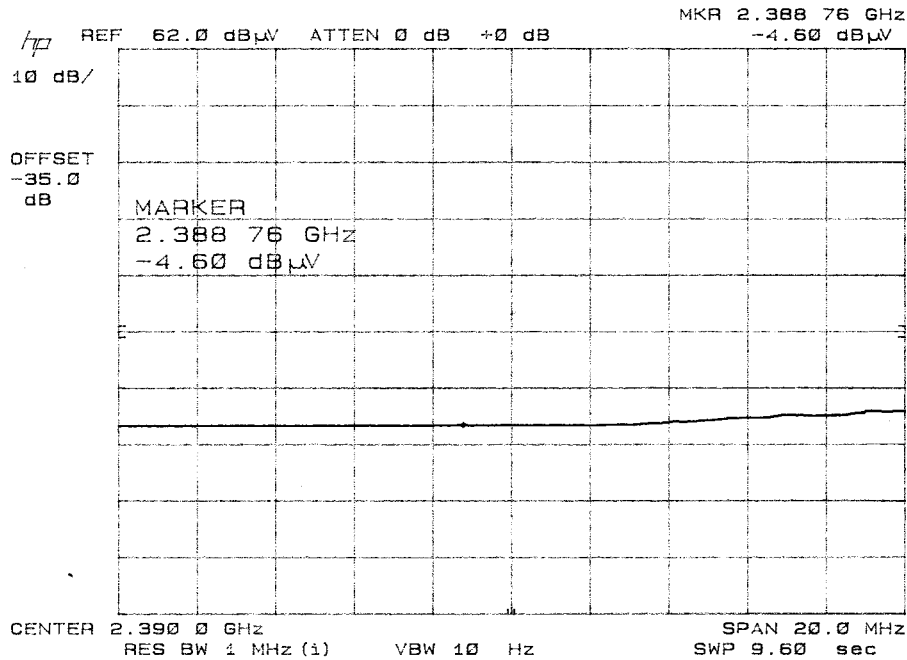


Certificate # 0955-01

Mode 802.11b CA-01 - Peak F.S.= 63.66 dBuV/m



Mode 802.11b CA-01 - Average F.S.= 50.86 dBuV/m



APPLICANT: ROOT Inc.

FCC ID: NN4RZ2009

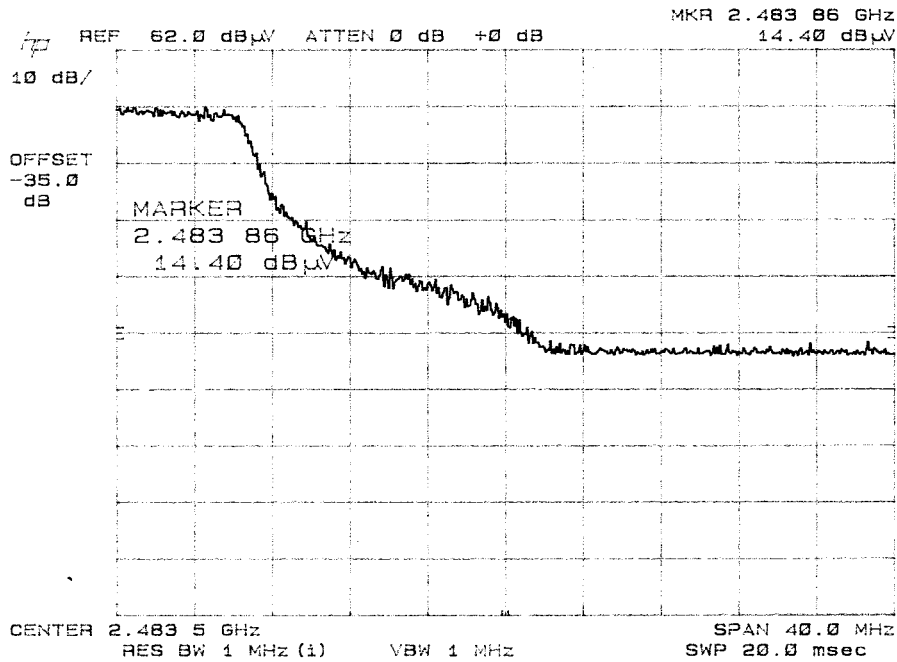
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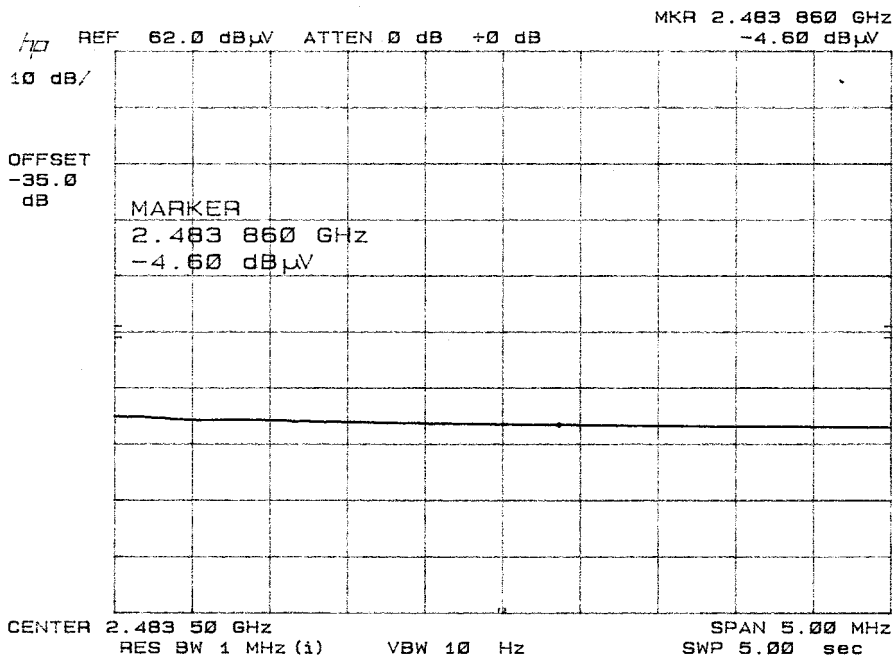
Certificate # 0955-01

Mode 802.11g CA-01 - Peak F.S.= 70.20 dBuV/m

patc



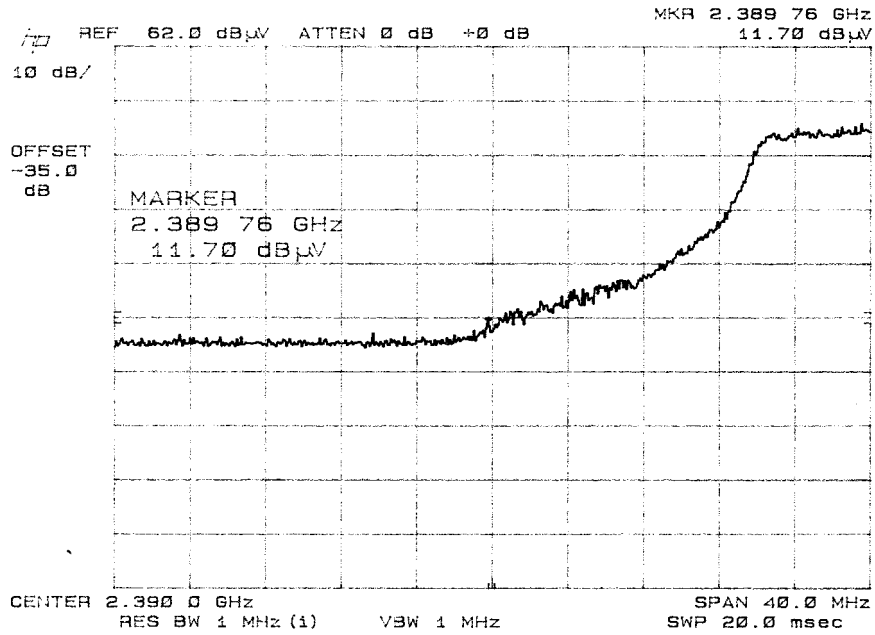
Mode 802.11g CA-01 - Average F.S.= 51.20 dBuV/m



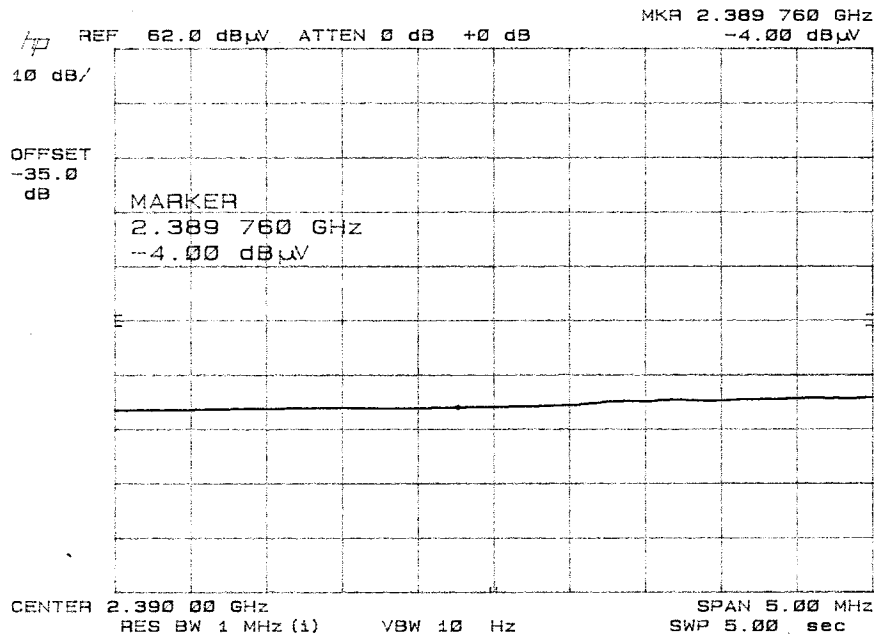


Certificate # 0955-01

Mode 802.11g CA-01 - Peak F.S.= 67.50 dBuV/m



Mode 802.11g CA-01 - Average F.S.= 51.80 dBuV/m



APPLICANT: ROOT Inc.

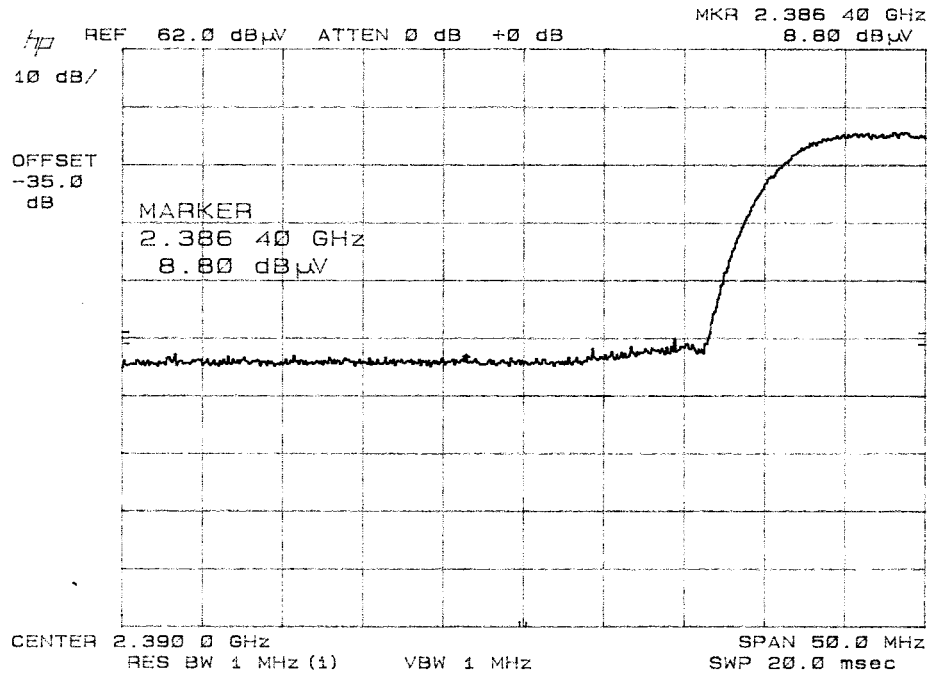
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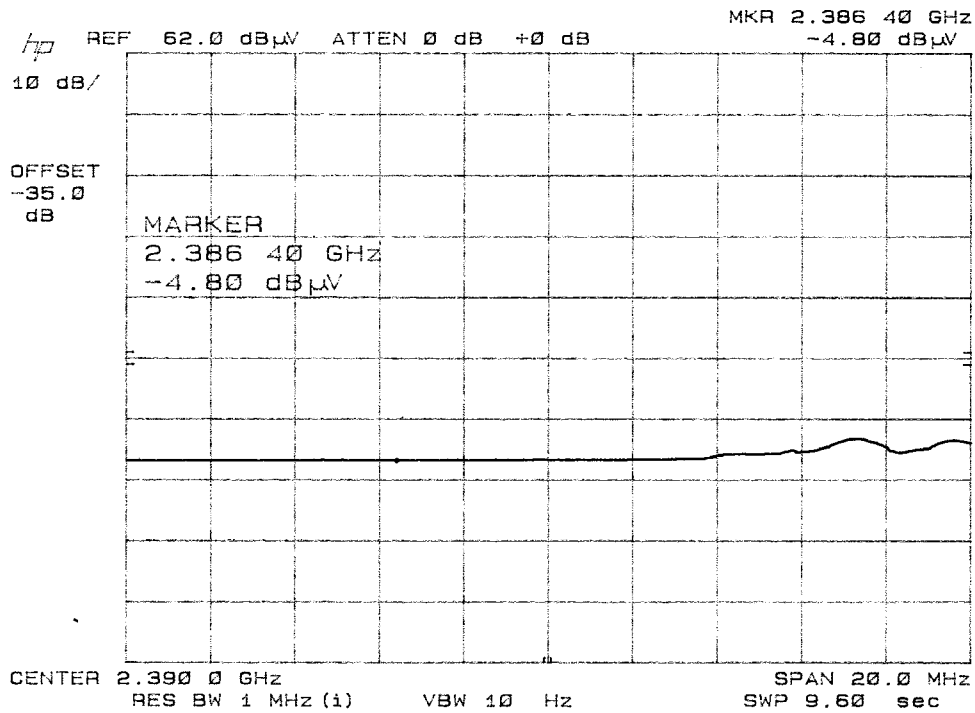


Certificate # 0955-01

Mode 802.11b YA2418RD - Peak F.S.= 64.26 dBuV/m



Mode 802.11b YA2418RD - Average F.S.= 50.66dBuV/m



APPLICANT: ROOT Inc.

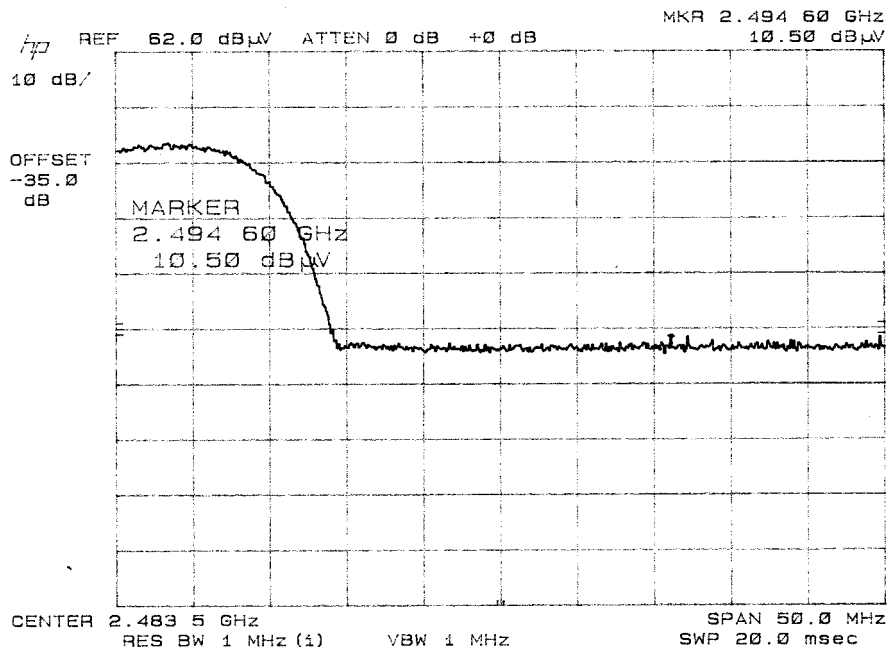
FCC ID: NN4RZ2009

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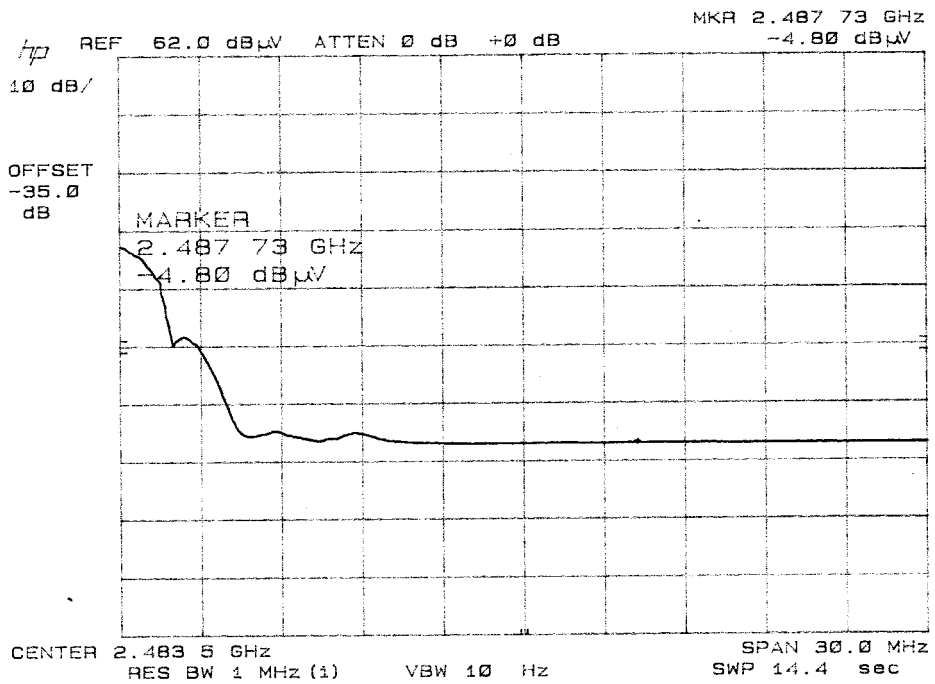


Certificate # 0955-01

Mode 802.11b YA2418RD - Peak F.S.= 66.30 dBuV/m



Mode 802.11b YA2418RD - Average F.S.= 51.00dBuV/m



APPLICANT: ROOT Inc.

FCC ID: NN4RZ2009

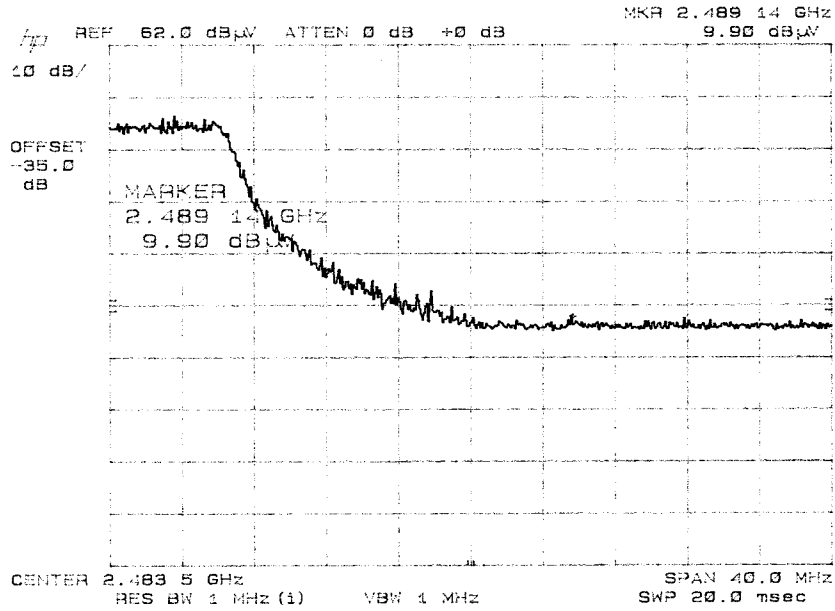
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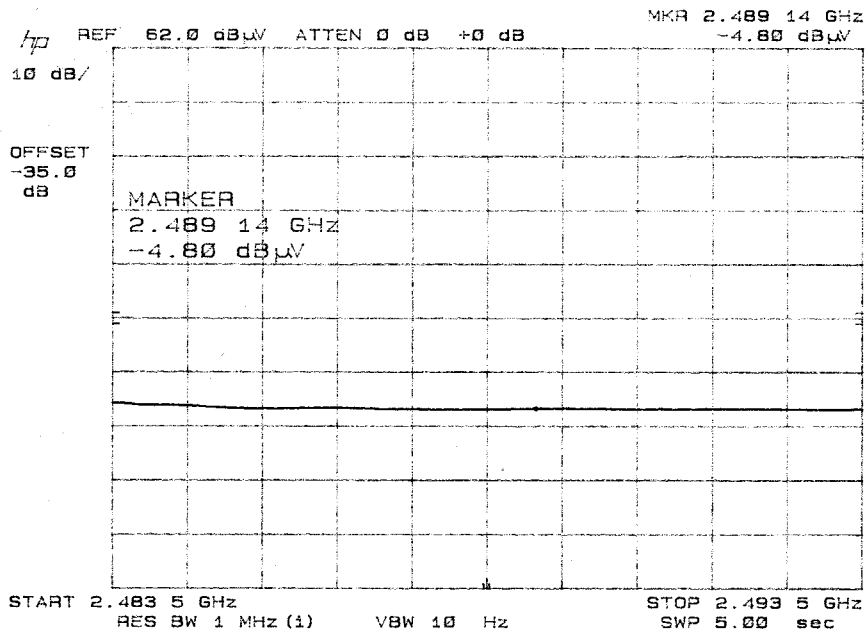
Certificate # 0955-01

Mode 802.11g YA2418RD -- Peak F.S.= 65.70dBuV/m

+10 dB path



Mode 802.11g YA2418RD - Average F.S.= 51.00 dBuV/m



APPLICANT: ROOT Inc.

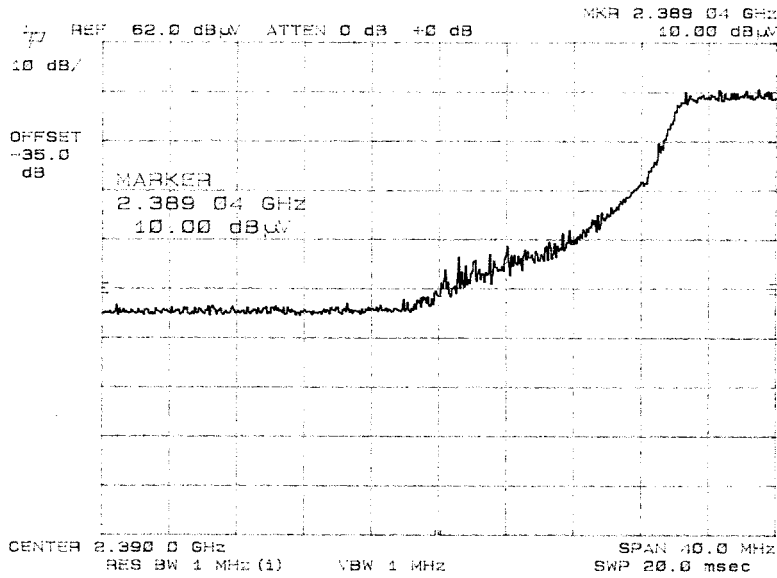
FCC ID: NN4RZ2009

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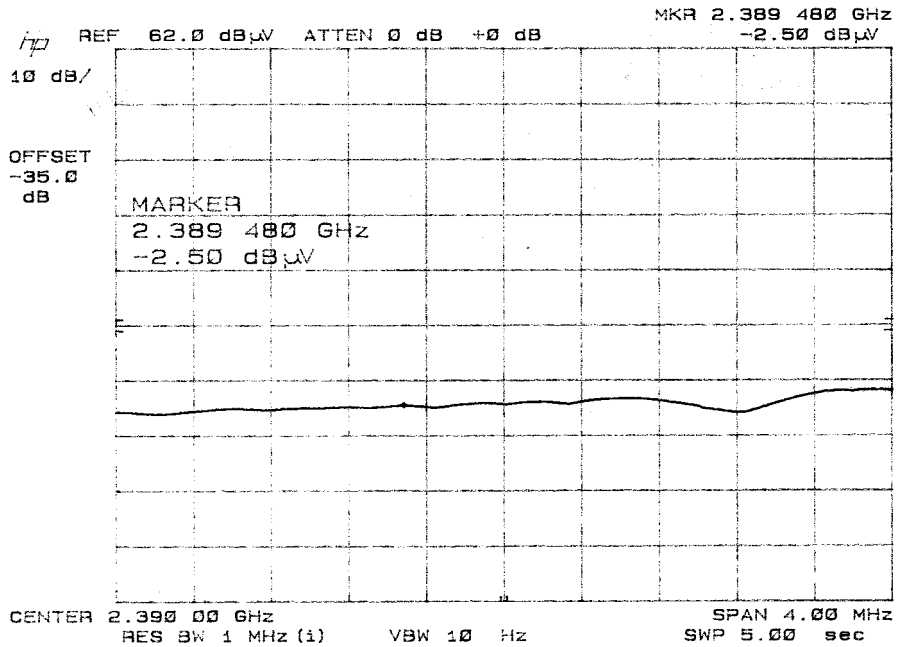


Certificate # 0955-01

Mode 802.11g YA2418RD - Peak F.S.= 65.80 dBuV/m



Mode 802.11g YA2418RD - Average F.S.= 53.30 dBuV/m



APPLICANT: ROOT Inc.

FCC ID: NN4RZ2009

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