Measurement of RF Emissions from the Pulsar R96 with HART Tank Level Probing Radar Transmitter

For	Magnetrol International 705 Enterprise Street Aurora, IL 60504
P.O. Number	212734
Date Tested	April 27 through May 1, 2015
Test Personnel	Richard King
Test Specification	FCC "Code of Federal Regulations" Title 47 Part15, Subpart C

Test Report By: Richard E. King

Richard King
EMC Engineer

Requested By: Oliver Pahlow
Magnetrol International

Approved By: Raymond J. Klouda

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Registered Professional
Engineer of Illinois - 44894

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REVISION HISTORY

Revision	Date	Description
—	8 June 2015	Initial release

Measurement of RF Emissions from a Tank Level Probing Radar, Model No. Pulsar R96 with HART Transmitter

1. INTRODUCTION

1.1. Scope of Tests

This report presents the results of the RF emissions measurements performed on a Tank Level Probing Radar, Model No. Pulsar R96 with HART, Serial No. 001, (hereinafter referred to as the Equipment Under Test (EUT)).). The EUT was designed to transmit at approximately 6.2GHz using a dielectric rod antenna identified as ANT 1 or a 4'' horn antenna identified as ANT 2. The EUT was manufactured and submitted for testing by Magnetrol International located in Aurora, IL.

1.2. Purpose

The test series was performed to determine if the EUT meets the radiated RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Sections 15.209 for Intentional Radiators. Testing was performed in accordance with ANSI C63.4-2014.

1.3. Deviations, Additions and Exclusions

These tests were performed at the Magnetrol International facility in an open area inside the facility and at the Downers Grove Waste Water Treatment facility. The measurement distances for the radiated emission tests were adjusted according to the space constraints at the facilities. The site attenuation was not verified.

1.4. EMC Laboratory Identification

This series of tests was performed by Elite Electronic Engineering Incorporated of Downers Grove, Illinois. The laboratory is accredited by The American Association for Laboratory Accreditation (A2LA). A2LA Certificate Number: 1786.01.

1.5. Temperature and Humidity Conditions

The temperature and humidity were not controlled and varied over the course of the testing; however they remained within tolerance.

2. APPLICABLE DOCUMENTS

The following documents of the exact issue designated form part of this document to the extent specified herein:

- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 15, Subpart C, dated 1 October 2014
- ANSI C63.4-2014, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"
- ANSI C63.10-2013, " American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"
- Federal Communications Commission Office of Engineering and Technology Laboratory Division 890966 D01 Meas level Probing Radars v01r01 - 2014, “MEASUREMENT PROCEDURE FOR LEVEL PROBING RADARS”

3. EUT Setup and Operation

3.1. General Description

The EUT is a Magnetrol International, Tank Level Probing Radar, Model No. Pulsar R96 with HART. A block diagram of the EUT setup is shown as Figure 1.

3.1.1. Power Input

The EUT obtained 24VDC from a 24V DC power supply.

3.1.2. Peripheral Equipment

No peripheral equipment was required for the EUT to operate therefore none was used.

3.1.3. Signal Input/Output Leads

No signal leads were required for the EUT to operate therefore none were used.

3.1.4. Grounding

The EUT was ungrounded during the tests.

3.2. Software

For all tests the EUT had Firmware Version 0.02b0 loaded onto the device to provide correct load characteristics.

3.3. Operational Mode

For all tests the EUT was either mounted to the metallic tank at the Magnetrol International facility or to the concrete tank at the Downers Grove Waste Water Treatment facility.

Once powered, the EUT was transmitting at 6.2GHz.

3.4. EUT Modifications

No modifications were required for compliance to the Title 47, Part 15, Subpart C, Sections 15.209 requirements.

4. Test Instrumentation

4.1. Test Instrumentation

The test instrumentation and auxiliary equipment used during the tests are listed in Table 9-1.

4.2. Calibration Traceability

Test equipment is maintained and calibrated on a regular basis. All calibrations are traceable to the National Institute of Standards and Technology (NIST).

4.3. Measurement Uncertainty

The measurement uncertainty was not characterized since the site was not verified.

5. Test Procedures

5.1. Radiated Measurements

5.1.1. Requirements

The EUT must comply with the requirements of FCC "Code of Federal Regulations Title 47", Part 15, Subpart C, Section 15.209 et seq.

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (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

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

5.1.2. Procedures

All tests were performed in an open area at either the Magnetrol International Facility or at the Downers Grove Waste Water treatment Facility. The site attenuation was not verified.

A preliminary radiated emissions test was performed to determine the emission characteristics of the EUT. For the preliminary test, a broadband measuring antenna was positioned at a 3 meter distance from the EUT. The entire frequency range from 30MHz to 40GHz was investigated using a peak detector function. The data was then processed by the computer to calculate equivalent field intensity.

The final open field emission tests were then manually performed over the frequency range of 30MHz to 40GHz. Between 30MHz and 1000MHz, a tuned dipole antenna was used as the pick-up device. A broadband double ridged waveguide antenna was used as the pick-up device for all frequencies above 1GHz. All significant broadband and narrowband signals from the EUT were measured and recorded.

To ensure that maximum or worst case, emission levels were measured, the following steps were taken:

1) The measurement antenna was rotated so that as much as possible of the EUT sides were exposed to the receiving antenna depending
2) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
3) The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.
4) In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer and the antenna cannot be raised to 4 meters. The measuring antenna is raised or lowered as much as the cable will allow and the EUT is rotated through all axes to ensure the maximum readings are recorded.

5.1.3. Results

The preliminary plots of the ambient environment at both the Magnetrol International facility and at the Downers Waste Water Treatment facility are presented on data pages 10 through 49 and 130 through 161. The plots are presented for a reference only, and the ambient environment with the EUT unpowered.

The preliminary plots, with the EUT transmitting at 6.2GHz for both ANT 1 and ANT 2 at the Magnetrol International facility, are presented on data pages 50 through 129. The plots are presented for a reference only, and are not used to determine compliance.

The preliminary plots, with the EUT transmitting at 6.2GHz for both ANT 1 and ANT 2 at the Downers Grove Waste Water Treatment facility, are presented on data pages 162 through 224. The plots are presented for a reference only, and are not used to determine compliance.

The final open area radiated levels, with the EUT transmitting at 6.2GHz with both ANT 1 and ANT 2 at both the Magnetrol International facility and the Downers Grove Waste Water Treatment facility, are presented on data page 225 through 228. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

6. OTHER TEST CONDITIONS

6.1. Test Personnel and Witnesses

All tests were performed by qualified personnel from Elite Electronic Engineering Incorporated. The test series was witnessed by Magnetrol International personnel.

6.2. Disposition of the EUT

The EUT and all associated equipment were returned to Magnetrol International upon completion of the tests.

7. CONCLUSIONS

It was determined that the Magnetrol International Tank Level Probing Radar, Model No. Pulsar R96 with HART, Serial No. 001, did fully meet the radiated emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Section 15.205 et seq. for Intentional Radiators, when tested per ANSI C63.4-2014.

8. CERTIFICATION

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specifications.

The data presented in this test report pertains to the EUT at the test date as operated by Magnetrol International personnel. Any electrical or mechanical modification made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification.

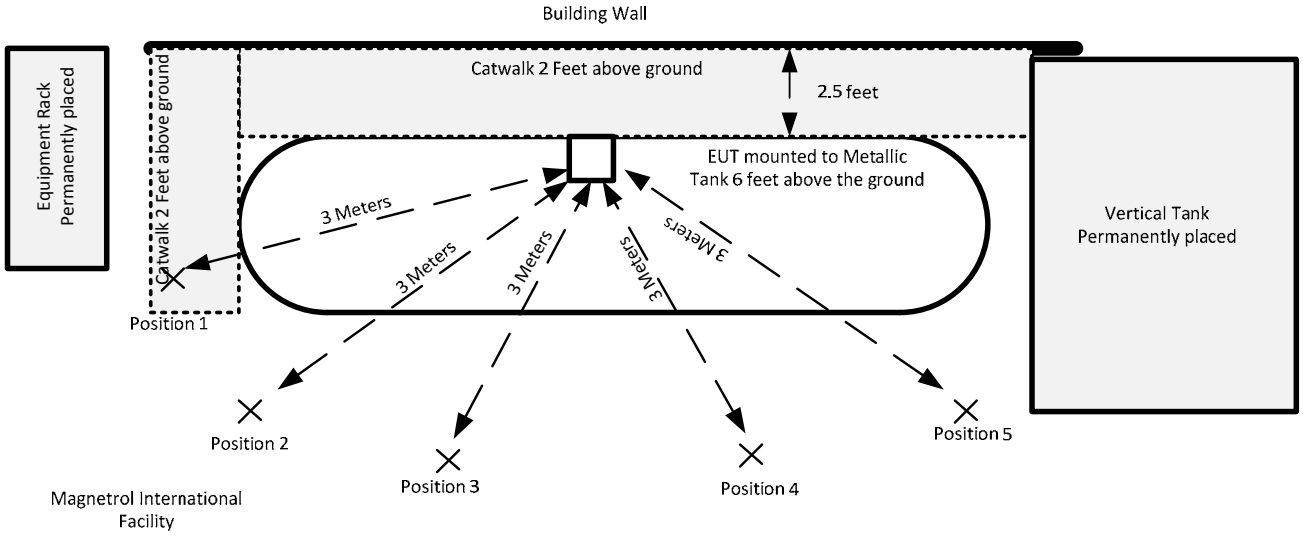
This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government.

9. EQUIPMENT LIST

Table 9-1 Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
APW0	PREAMPLIFIER	PLANAR ELECTRONICS	PE2-30-20G20R6G	PL2926/0646	20GHZ-26.5GHZ	2/17/2015	2/17/2016
APW11	PREAMPLIFIER	PMI	PE2-35-120-5R0-10-12-SFF	PL11685/1241	1GHZ-20GHZ	3/5/2015	3/5/2016
APW4	PREAMPLIFIER	PLANAR	PE2-36-2D540G-5R0-10	PL3043/0651	26.5GHZ-40GHZ	2/17/2015	2/17/2016
CDU3	LAPTOP COMPUTER						
NHG1	STANDARD GAIN HORN ANTENNA	NARDA	638	---	18-26.5GHZ	NOTE 1	
NHH1	STANDARD GAIN HORN ANTENNA	NARDA	V637	---	26.5-40GHZ	NOTE 1	
NTA1	BILOG ANTENNA	CHASE EMC LTD.	BILOG CBL6112	2054	0.03-2GHZ	2/18/2015	2/18/2016
NWQ0	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS LINDGREN	3117	66657	1GHZ-18GHZ	3/11/2014	3/11/2016
RBB0	EMI TEST RECEIVER 20HZ TO 40 GHZ.	ROHDE & SCHWARZ	ESIB40	100250	20 HZ TO 40GHZ	2/13/2015	2/13/2016
XLTE	5W, 50 OHM TERMINATION	JFW INDUSTRIES	50T-052	---	DC-2GHZ	2/3/2015	2/3/2016
XPQ5	FILTER	K&L MICROWAVE	11SH10-9000/U2000-O/O	1	5000-5800 MHZ	12/1/2014	12/1/2015
XPR0	HIGH PASS FILTER	K&L MICROWAVE	11SH10-4800/X20000	001	4.8-20GHZ	9/19/2014	9/19/2015

I/O: Initial Only
N/A: Not Applicable
Note 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.



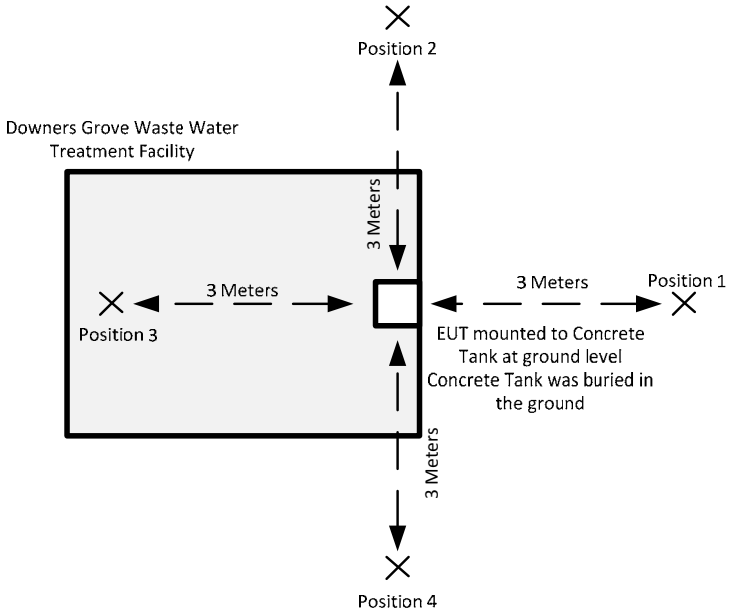
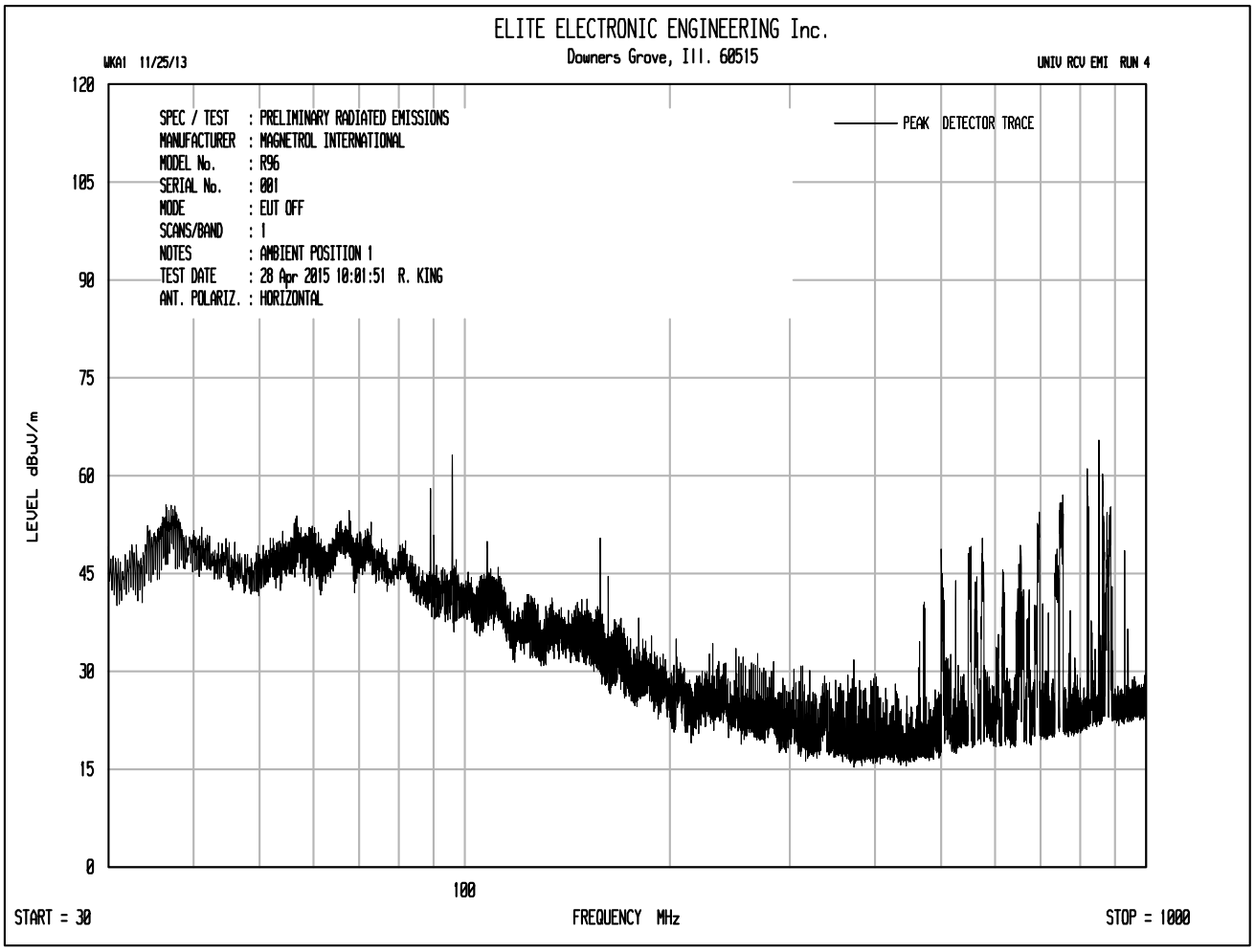
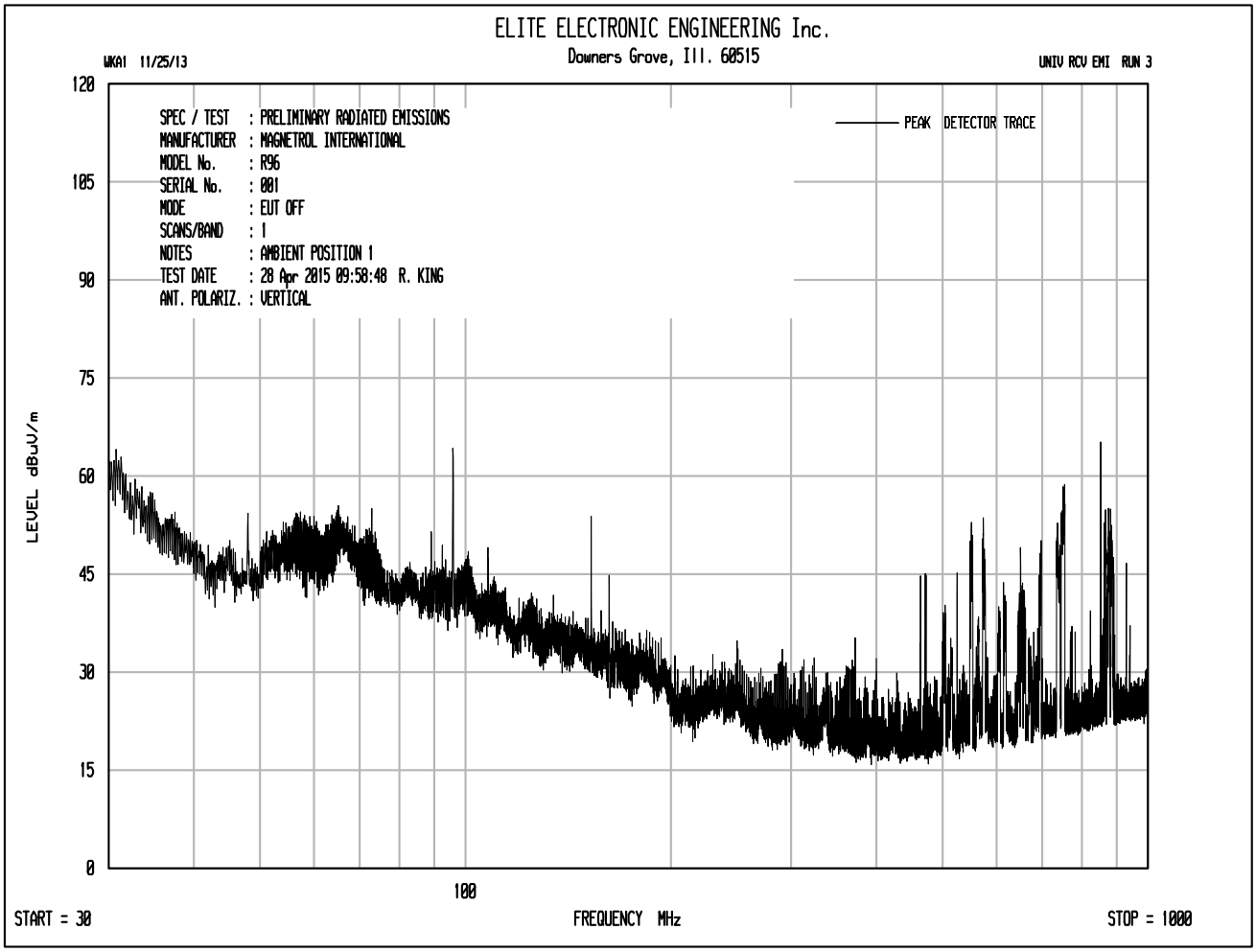


Figure 1 Test Sites


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 4
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 1
TEST DATE : 28 Apr 2015 10:01:51 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 1
TEST DATE : 28 Apr 2015 09:58:48 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
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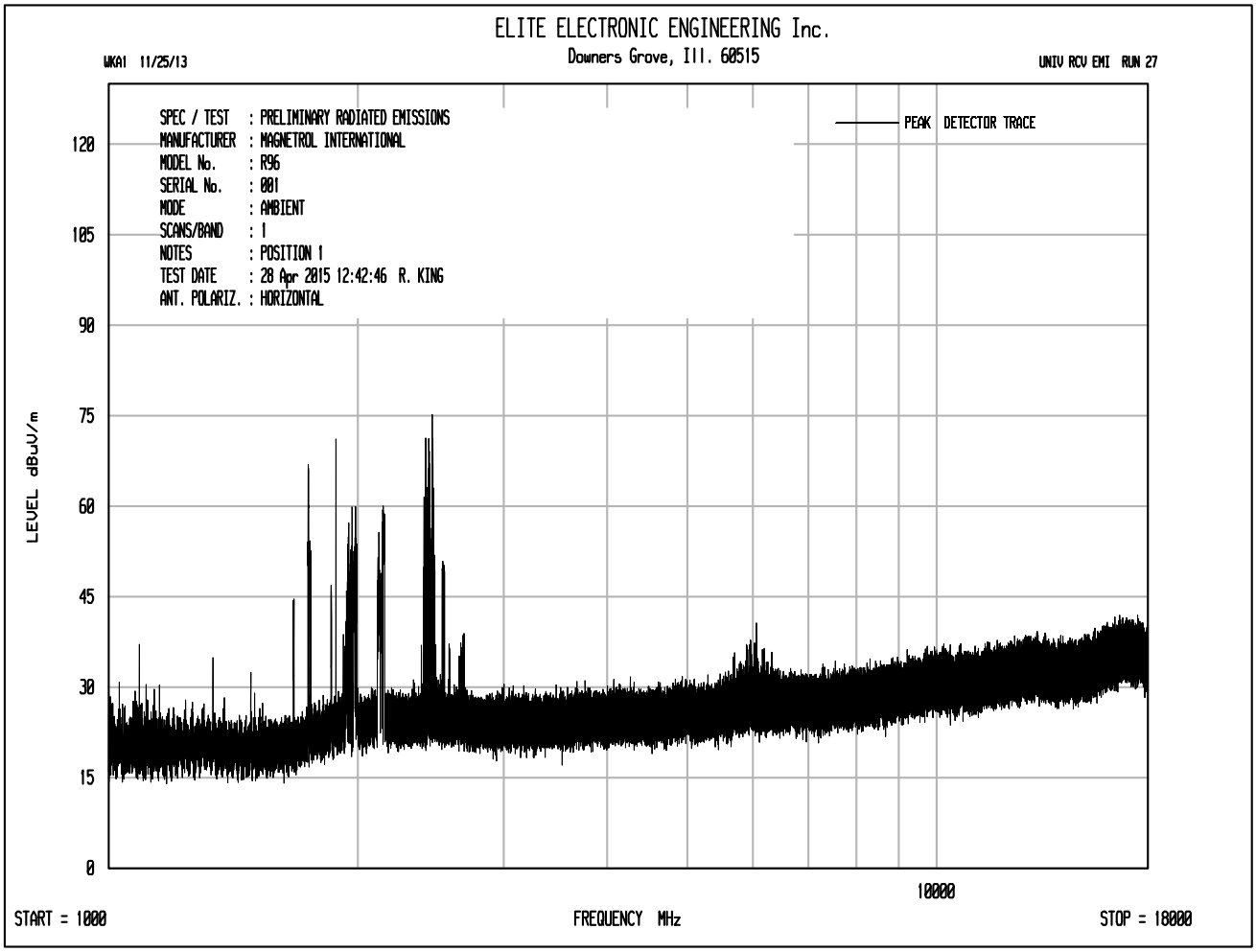
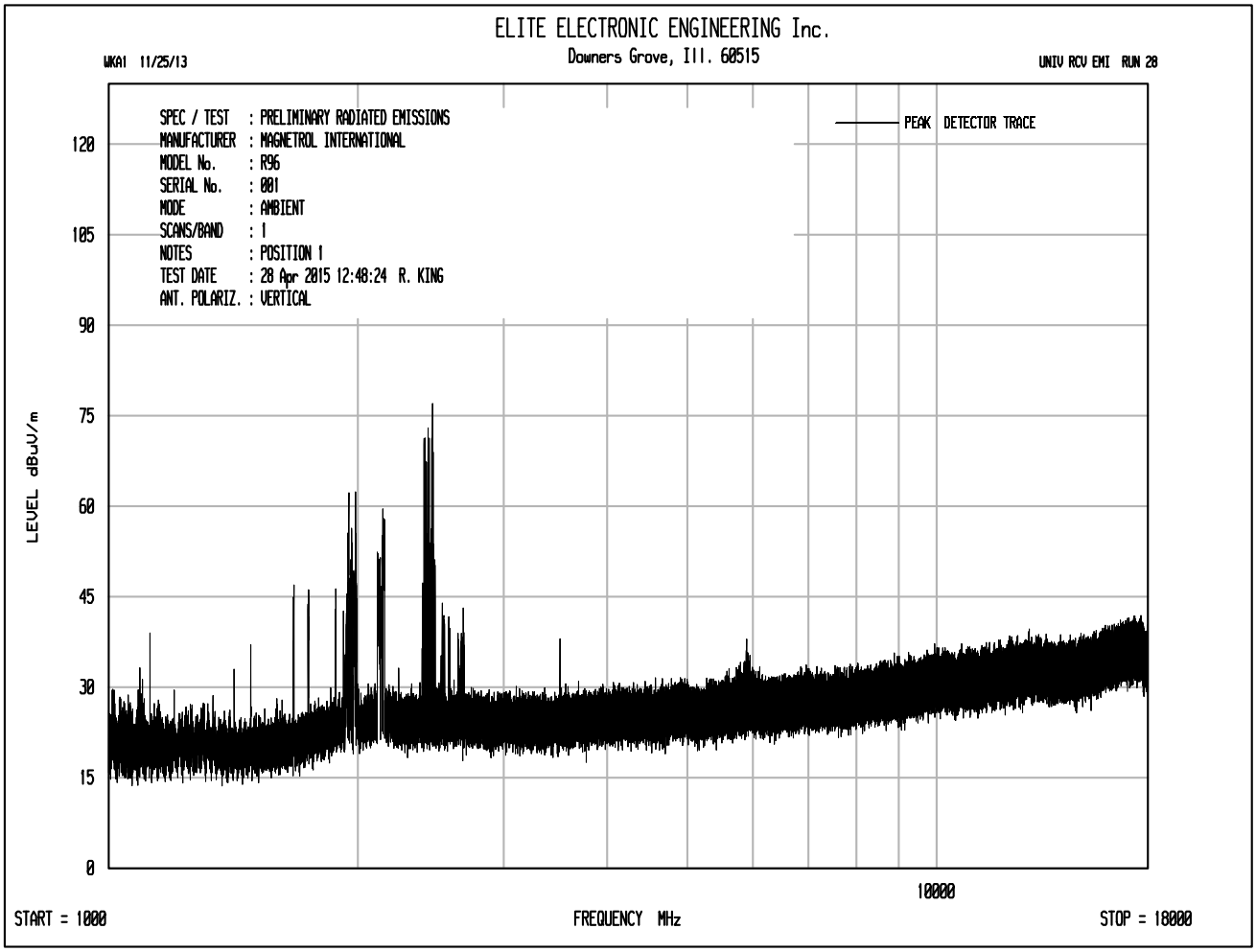
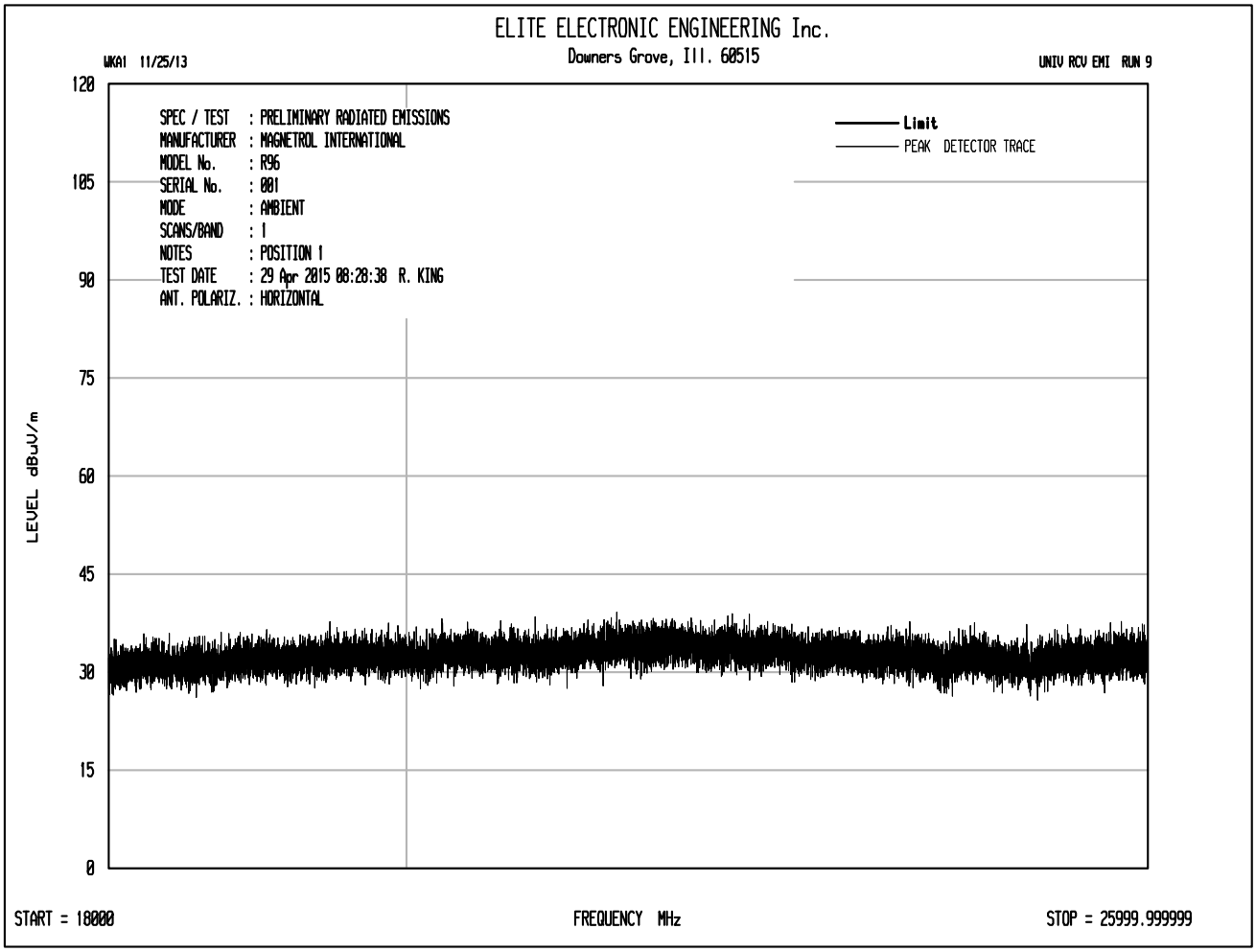
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 27
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 28 Apr 2015 12:42:46 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 28
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 28 Apr 2015 12:48:24 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 08:28:38 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
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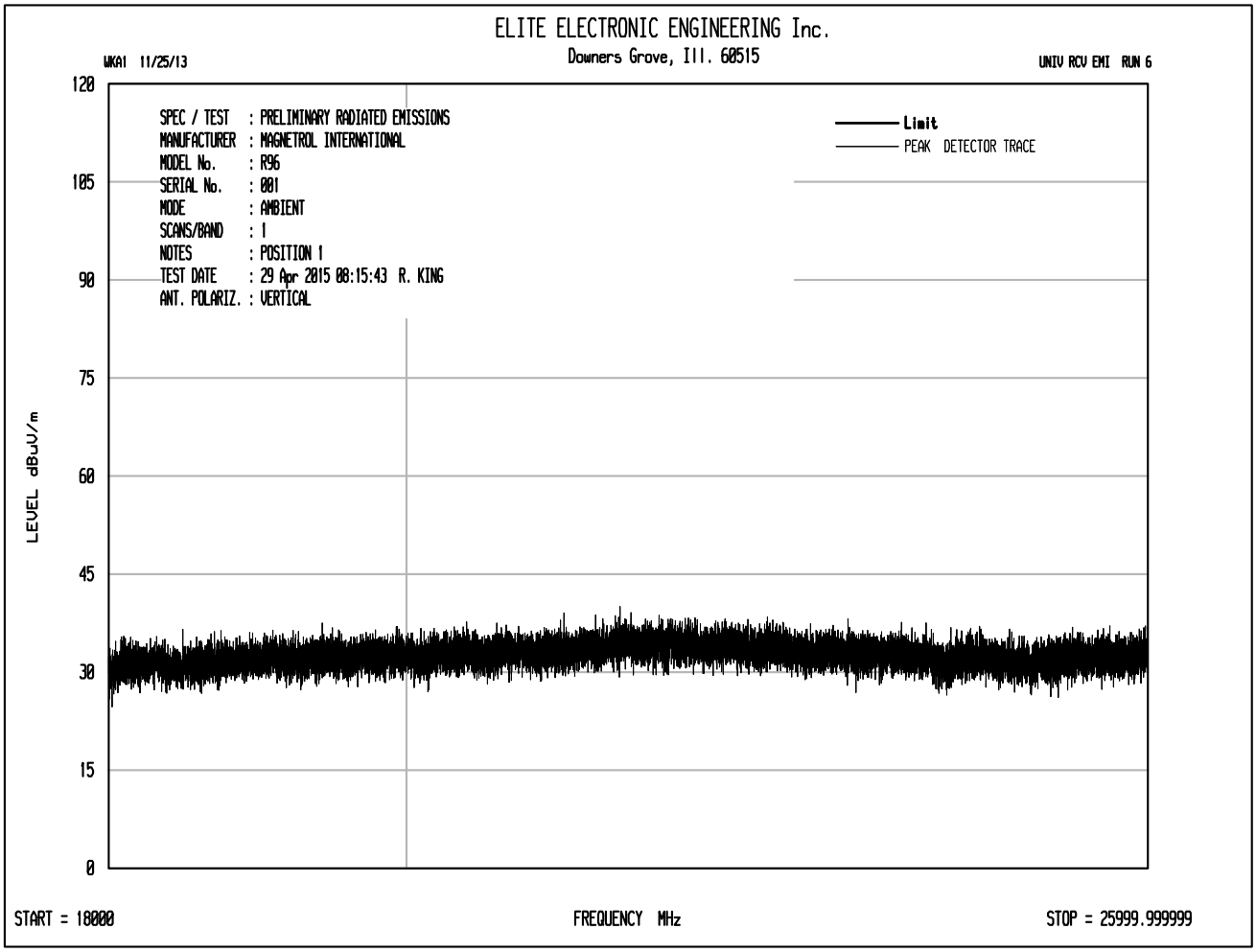
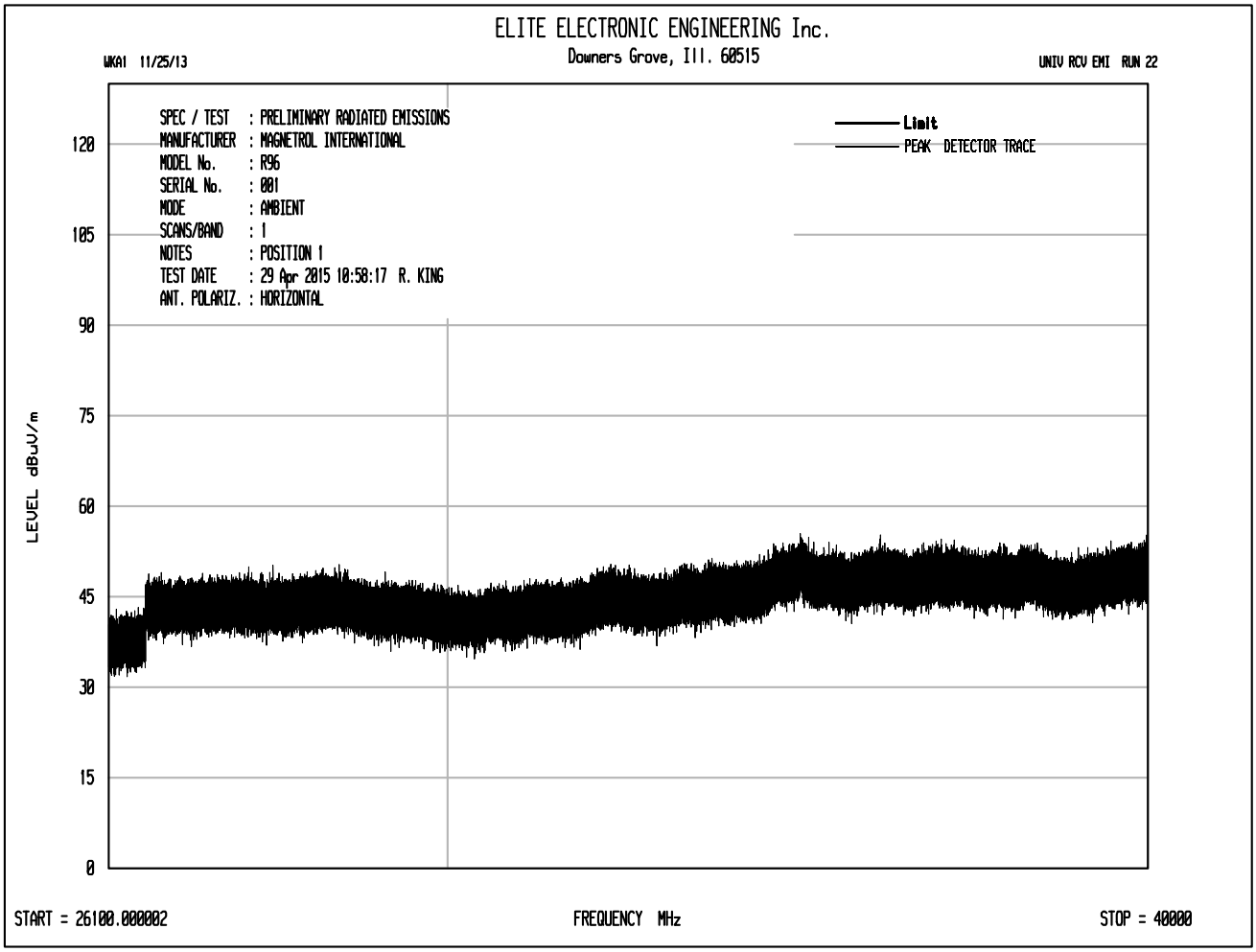
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 6
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 08:15:43 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 22
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 10:58:17 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
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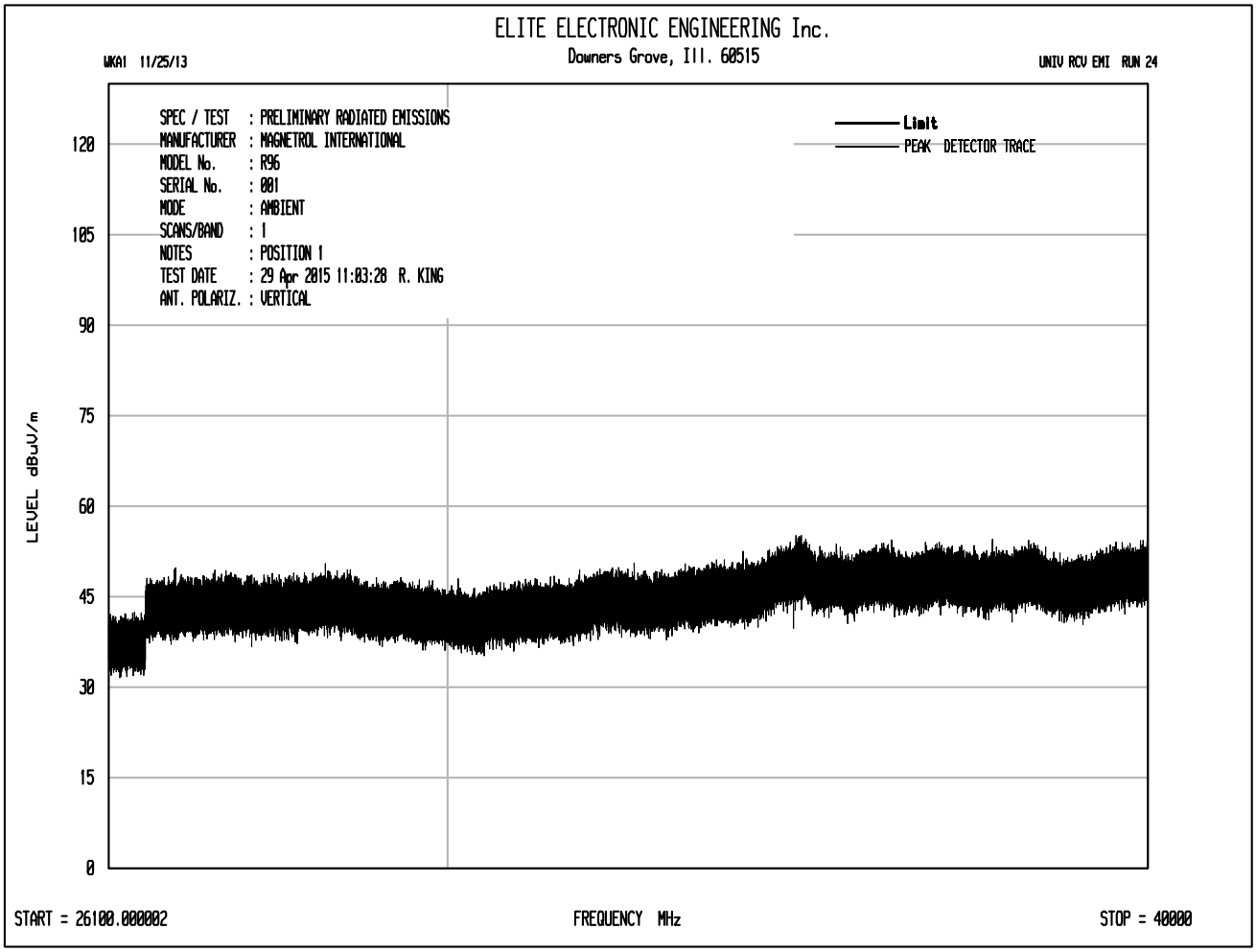
FREQUENCY MHz
STOP = 40000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 24
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 11:03:28 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
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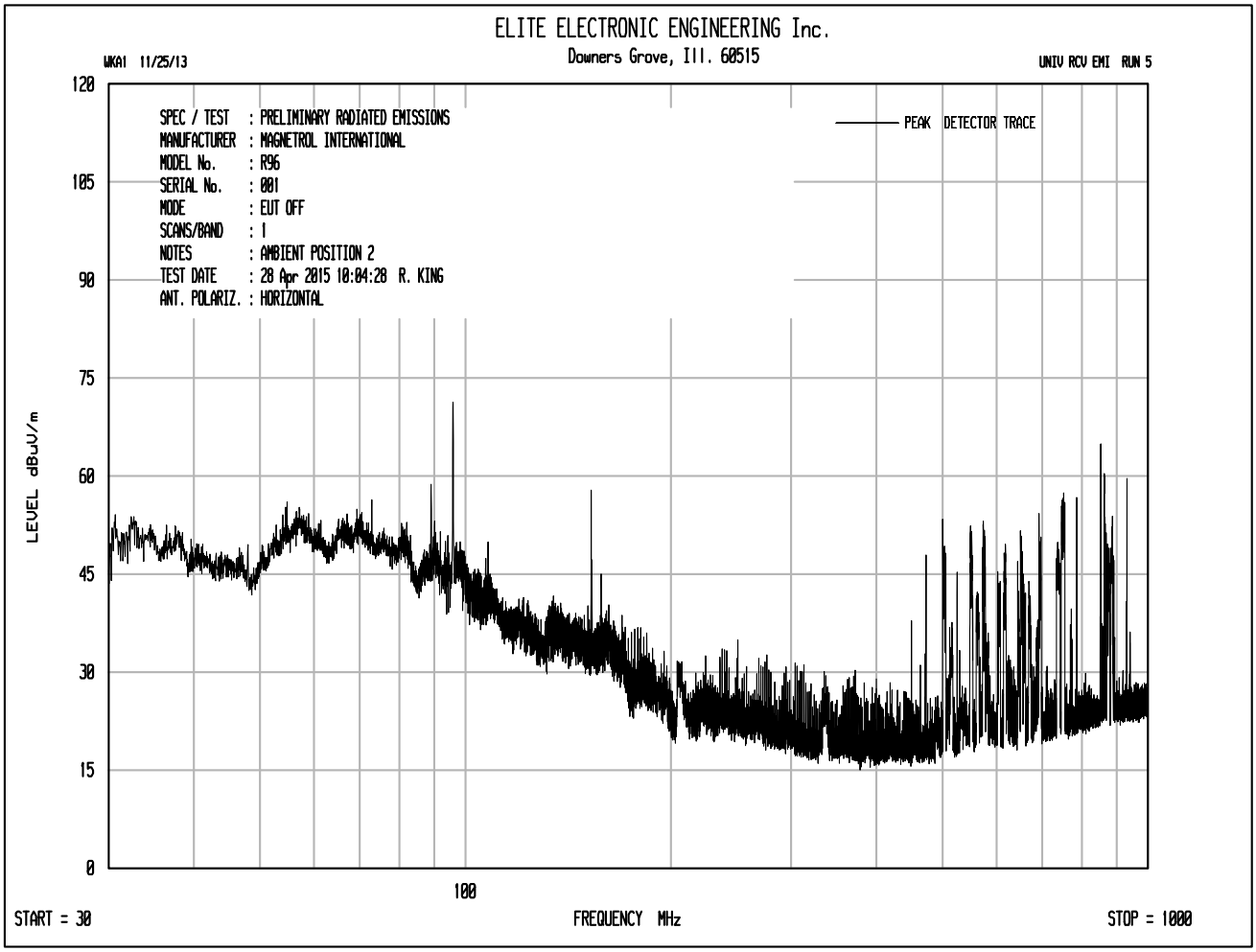
ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 5
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 2
TEST DATE : 28 Apr 2015 10:04:28 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
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105
90
75
60
45
30
15
0
100
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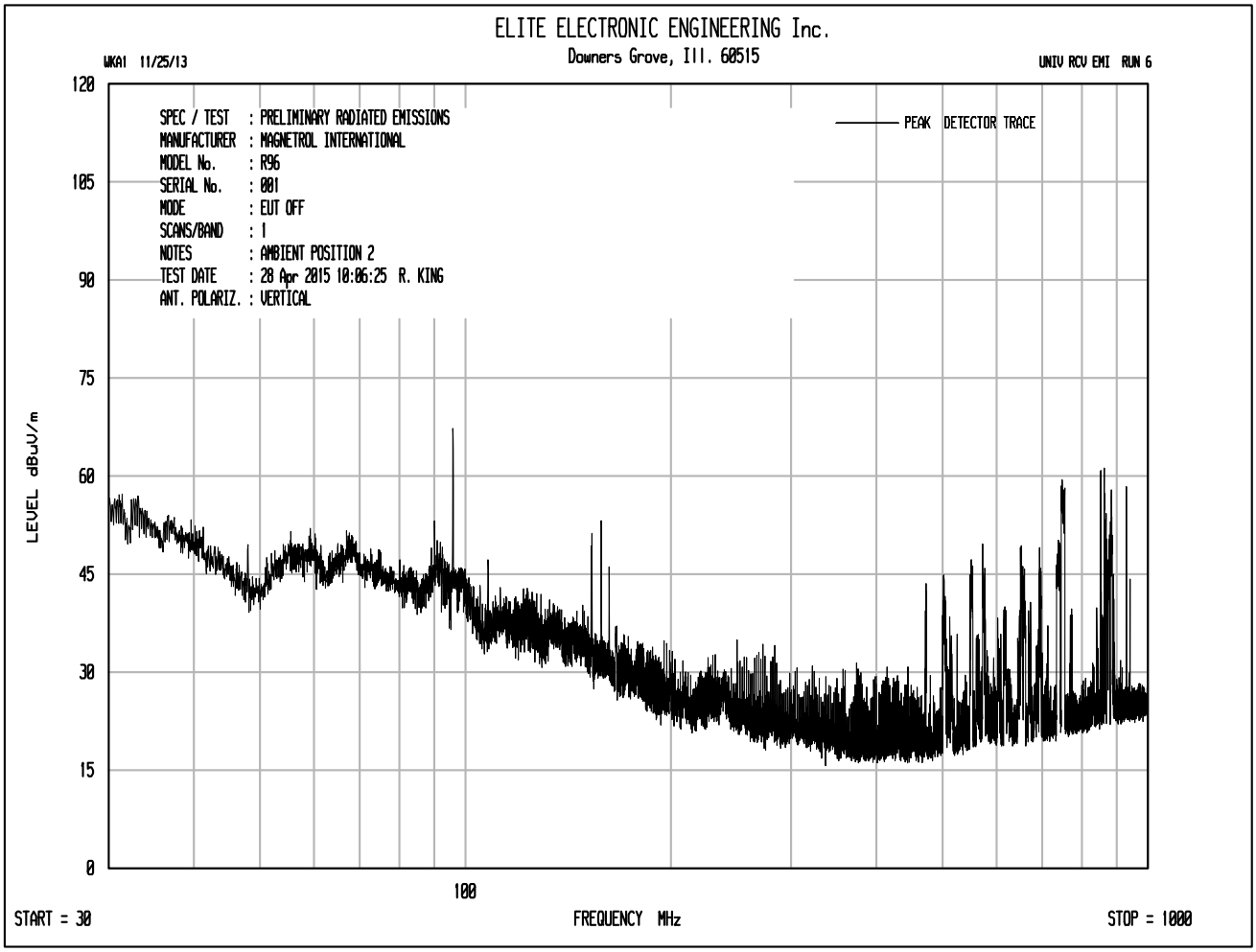
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 6
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 2
TEST DATE : 28 Apr 2015 10:06:25 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
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105
90
75
60
45
30
15
0
100
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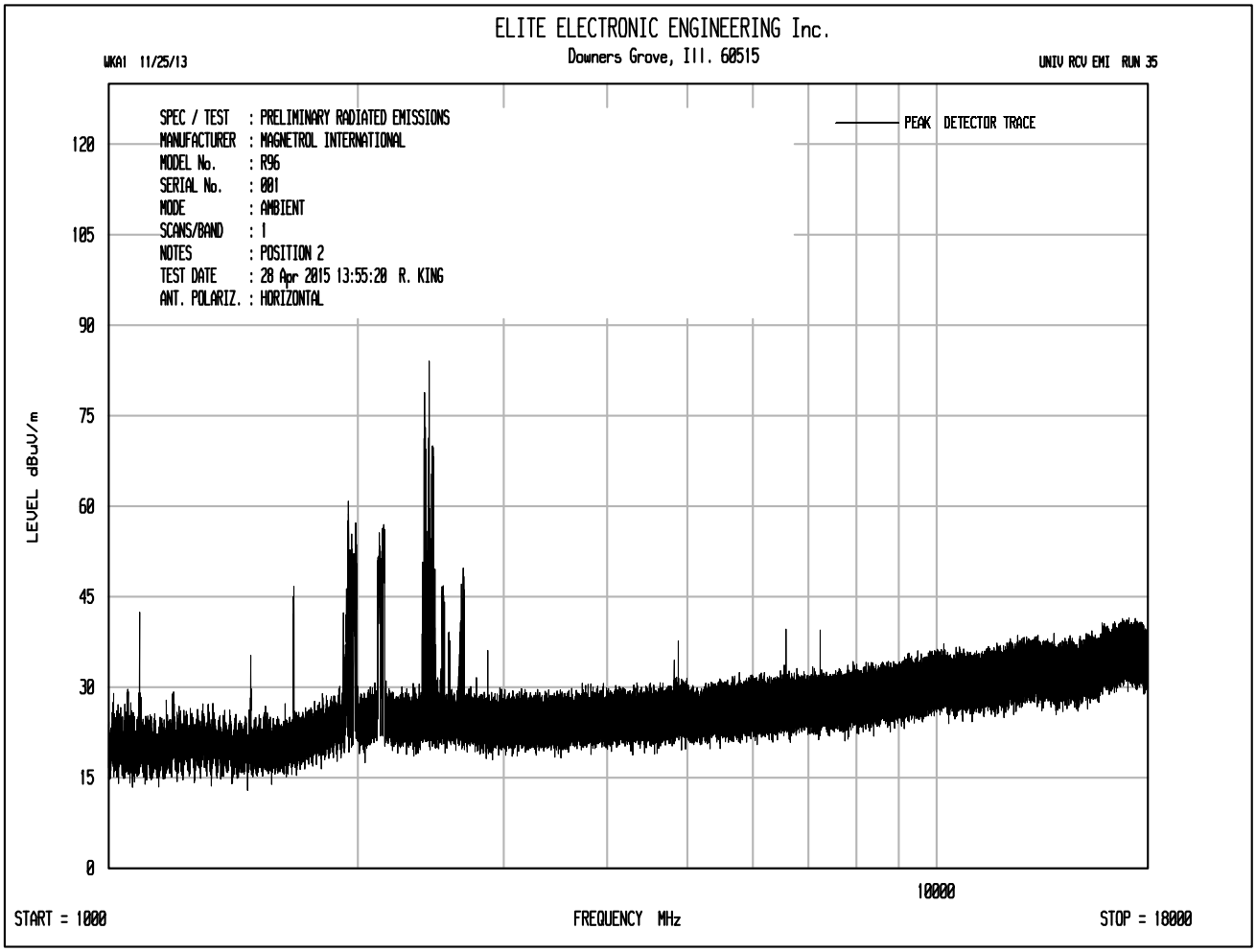
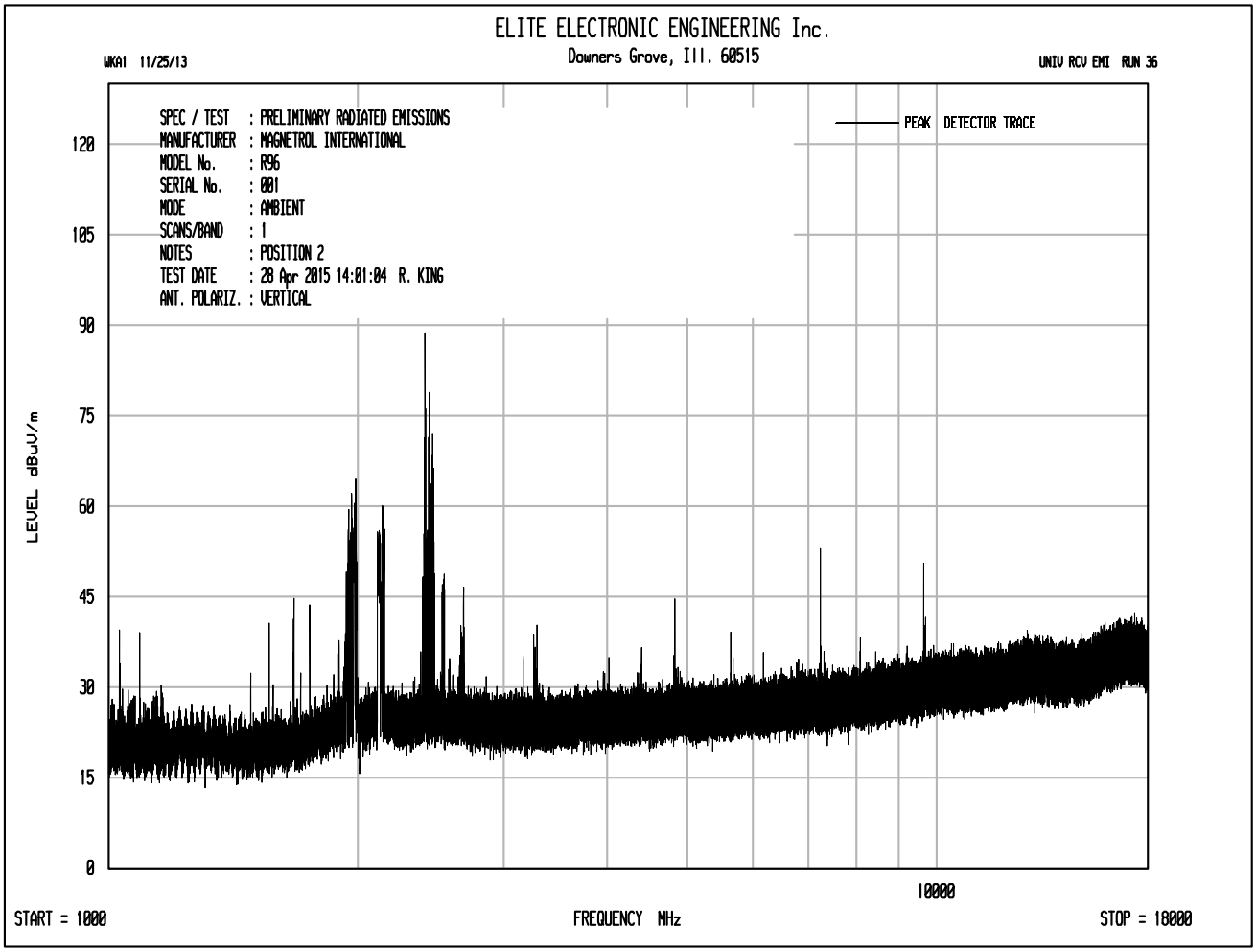
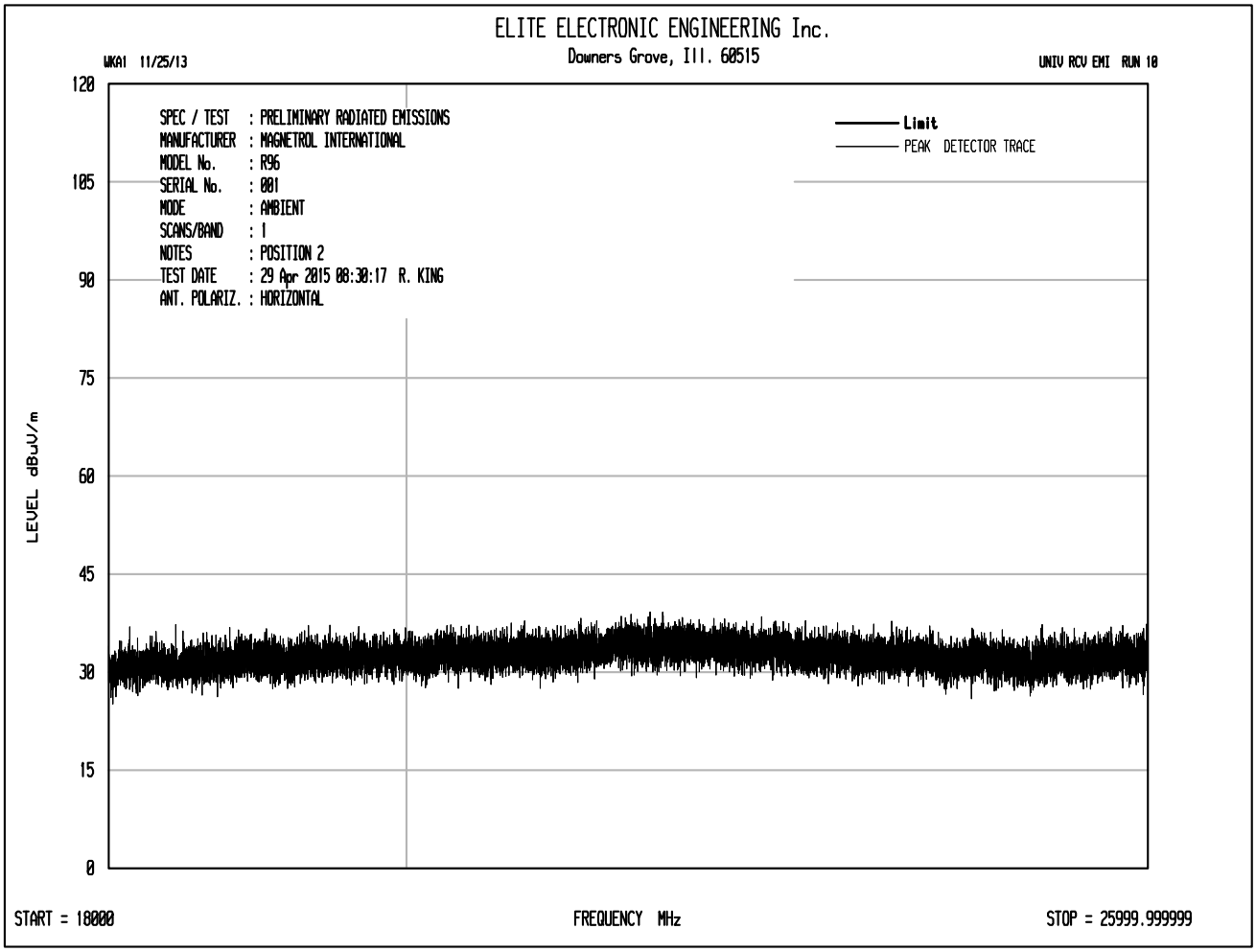
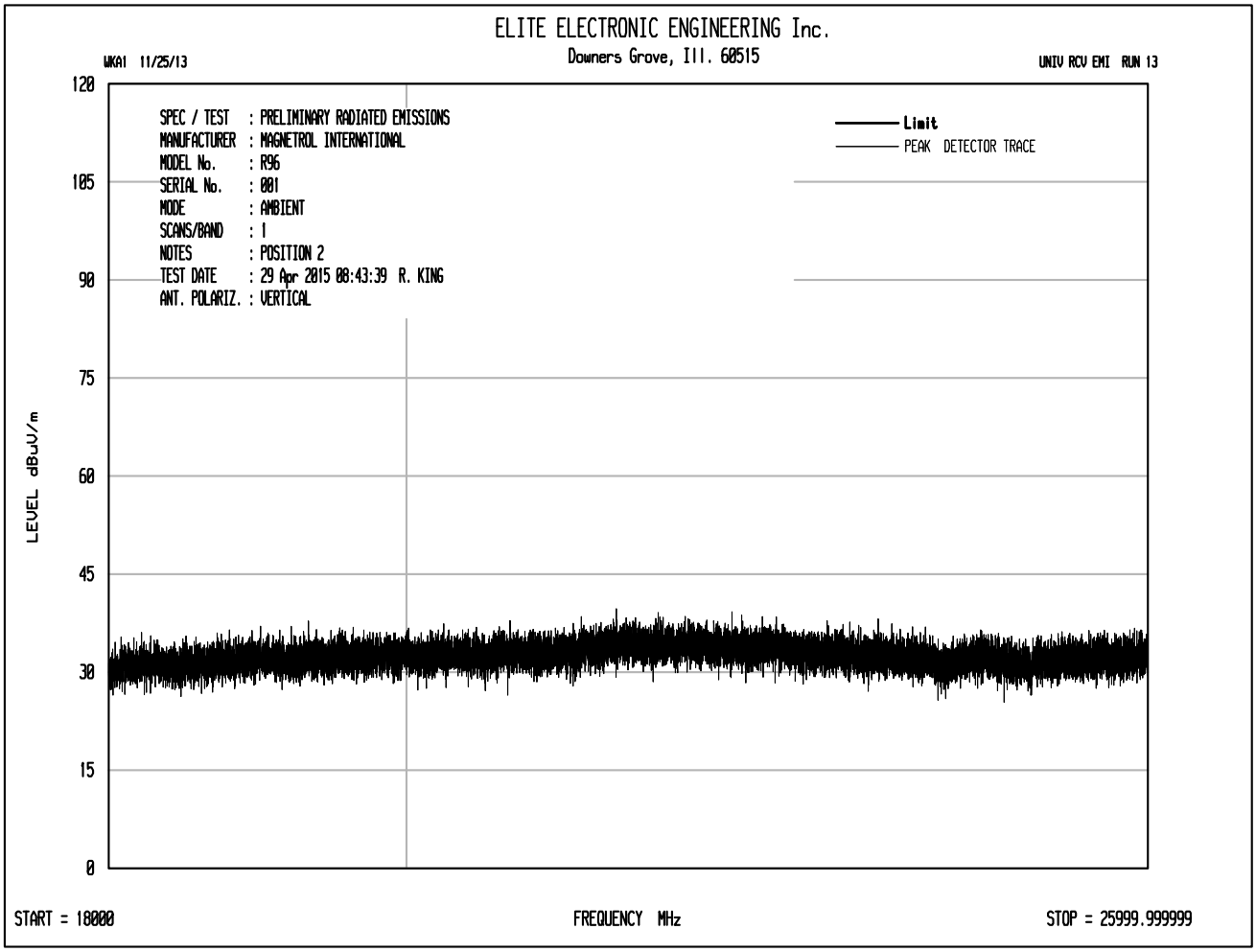
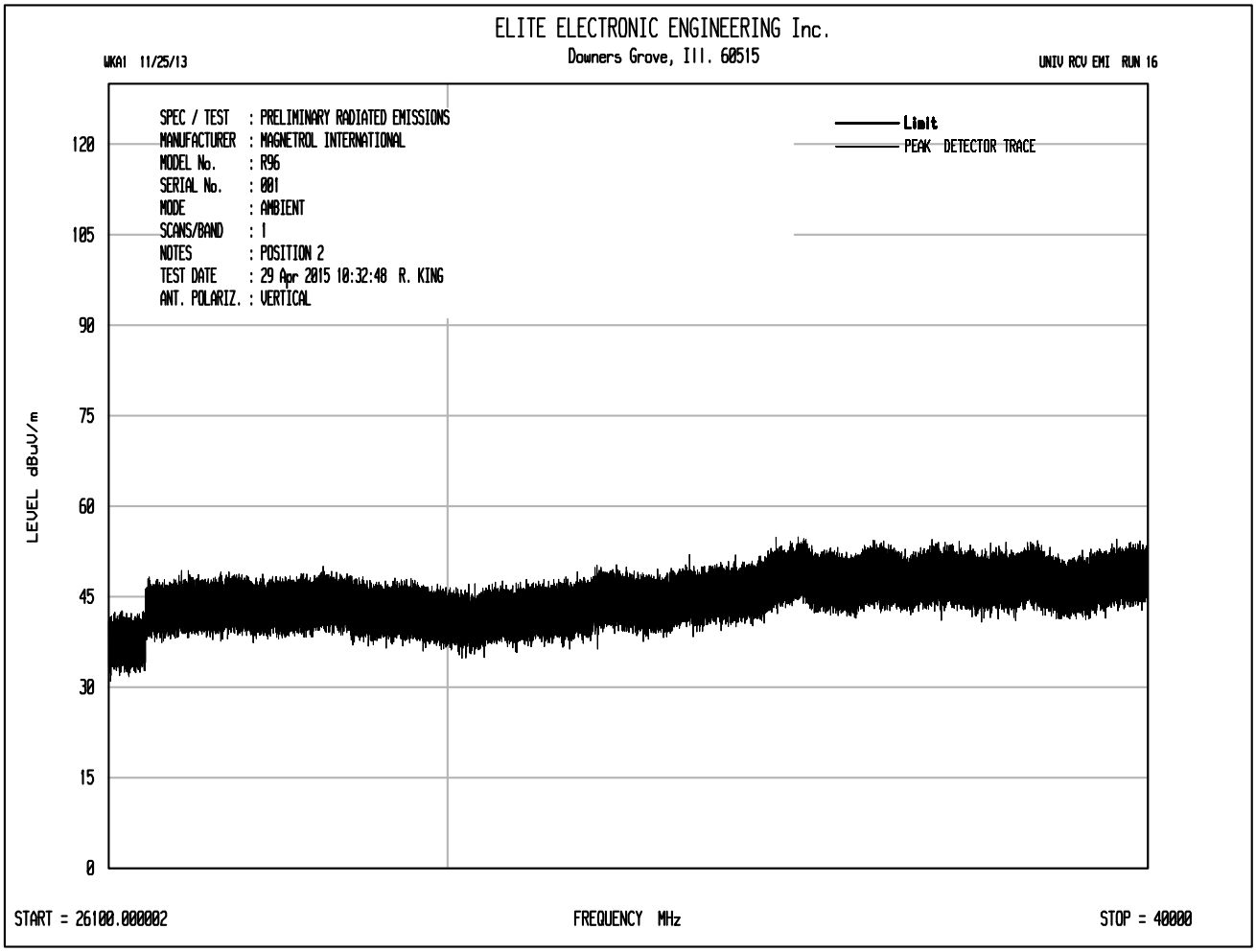
FREQUENCY MHz
STOP = 1000

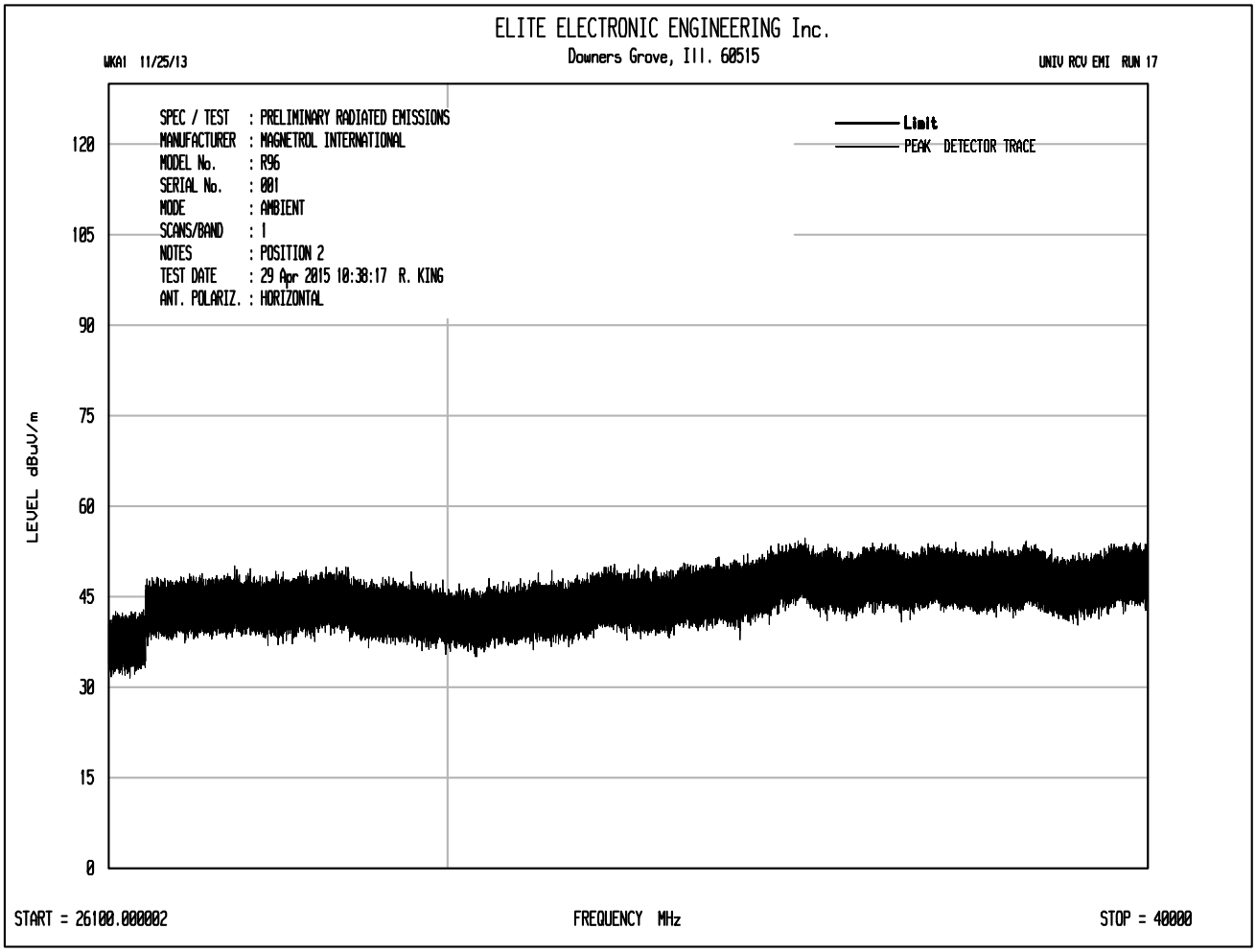

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 35
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 28 Apr 2015 13:55:20 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

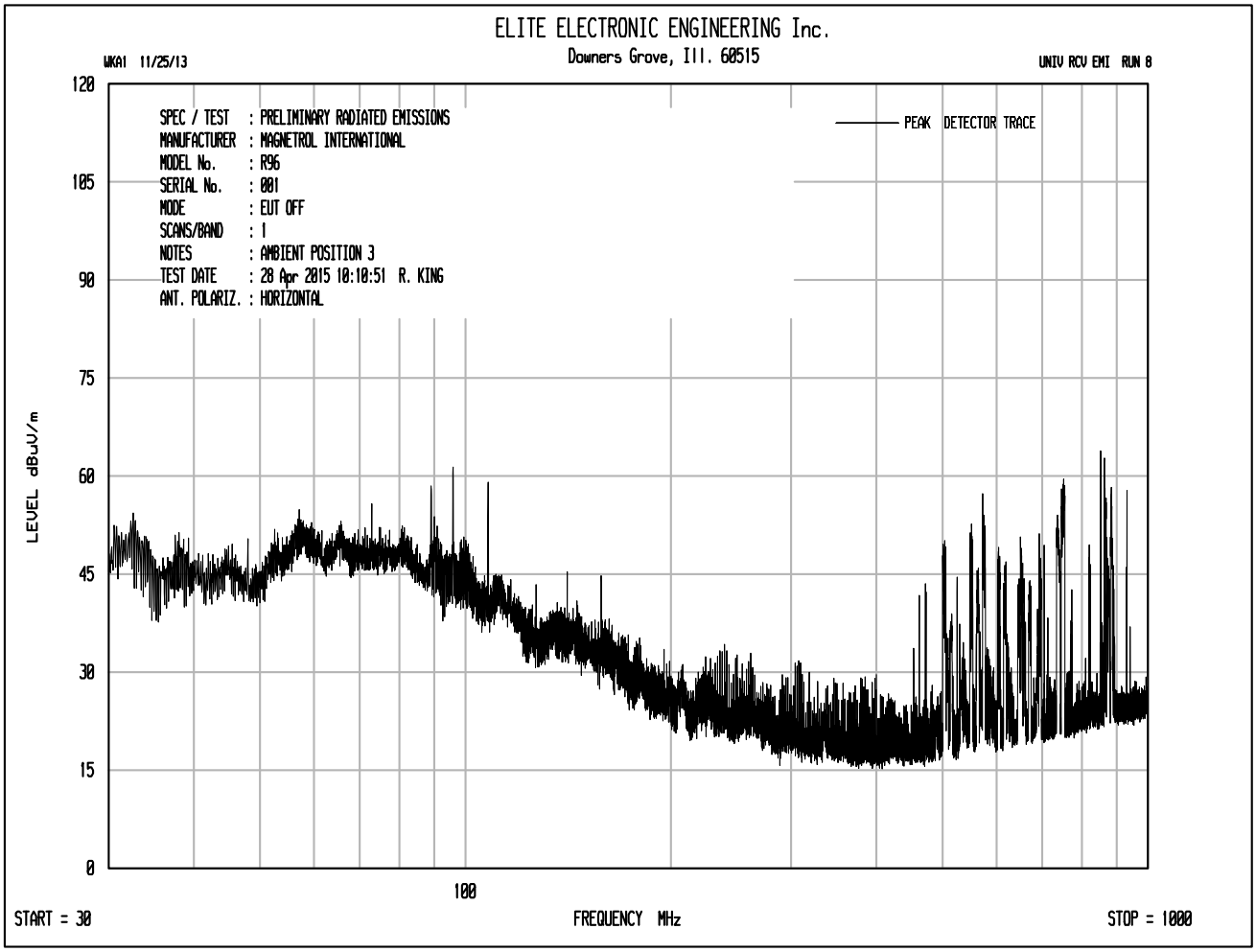

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 36
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 28 Apr 2015 14:01:04 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

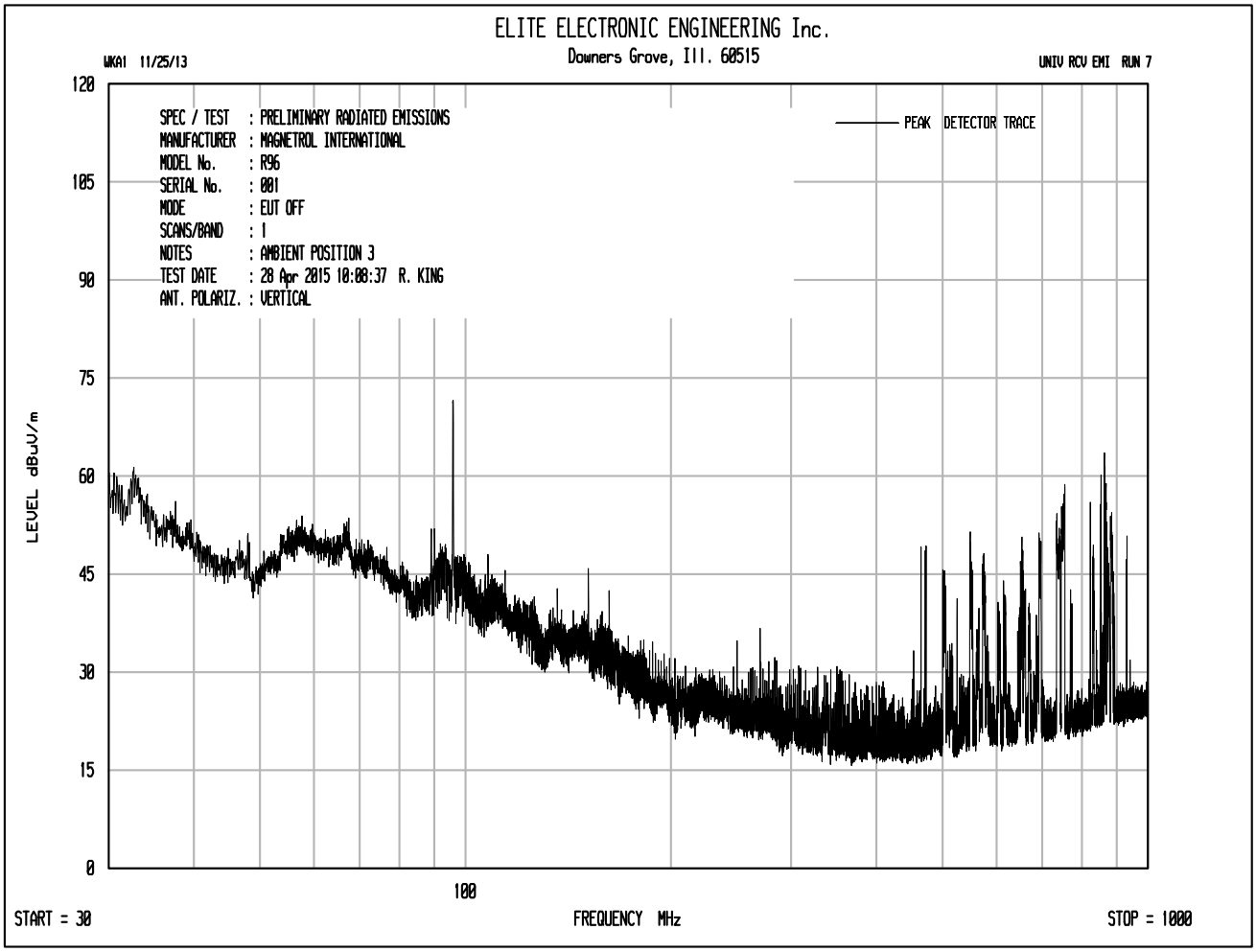

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 10
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 08:30:17 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

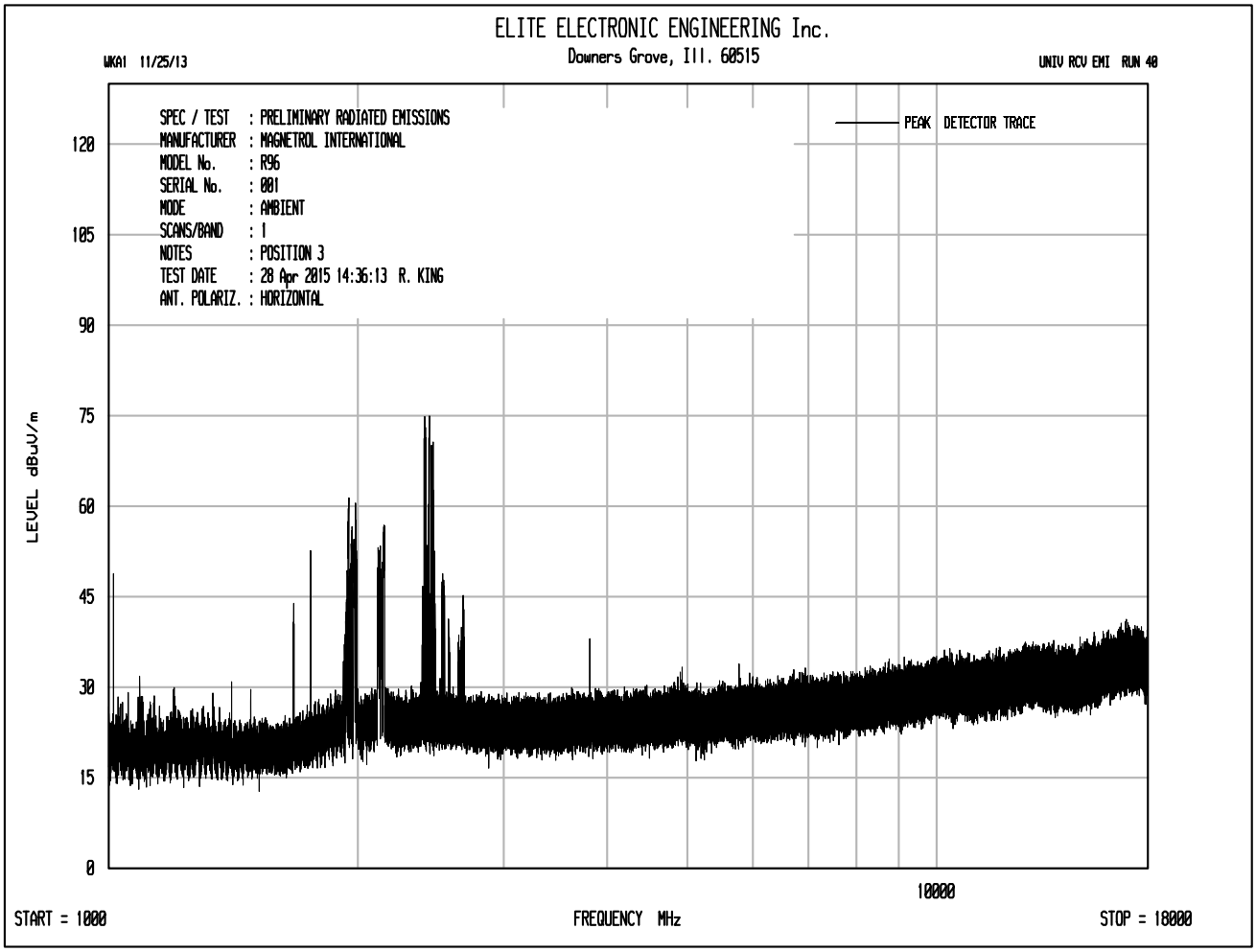

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 08:43:39 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

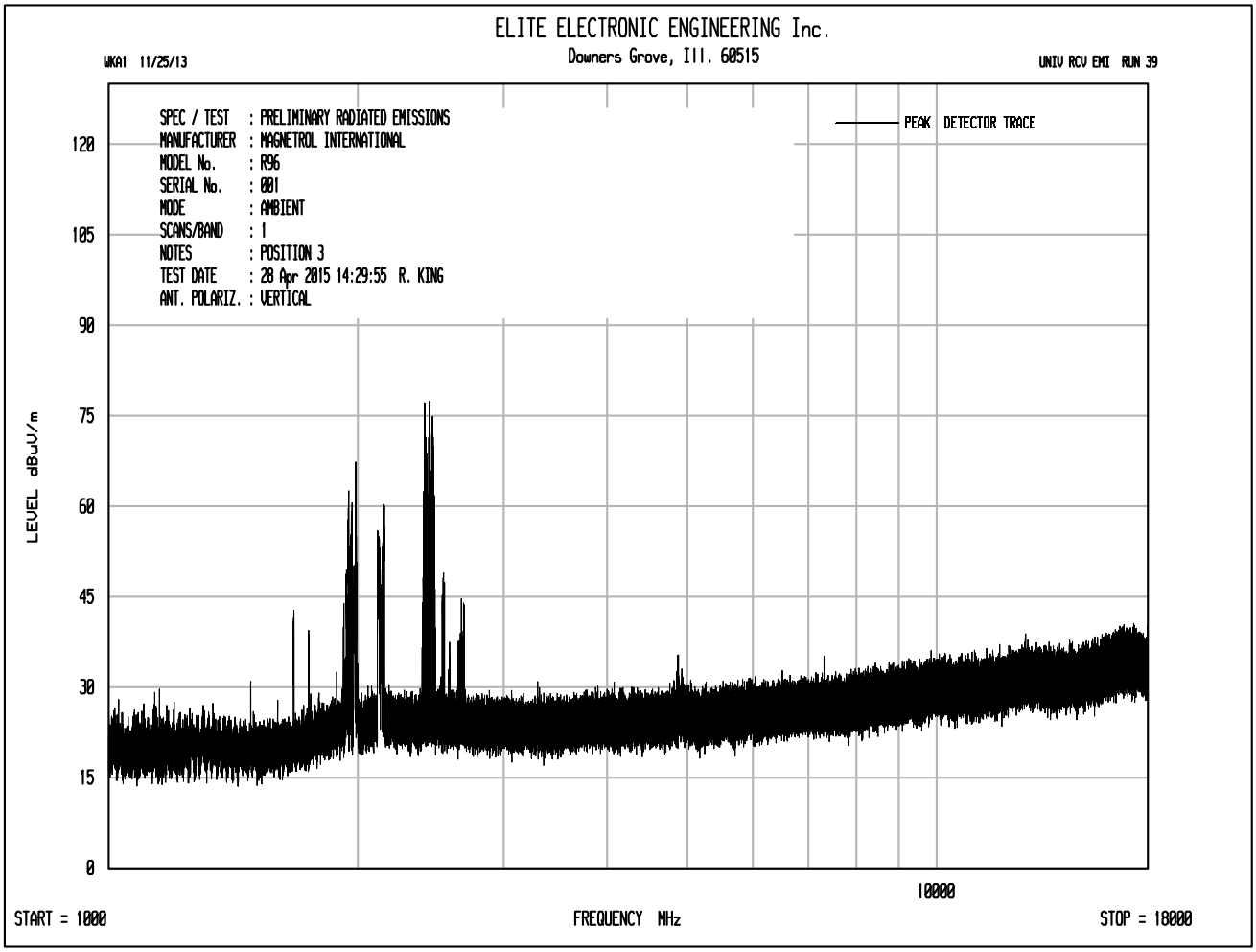

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 16
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 10:32:48 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

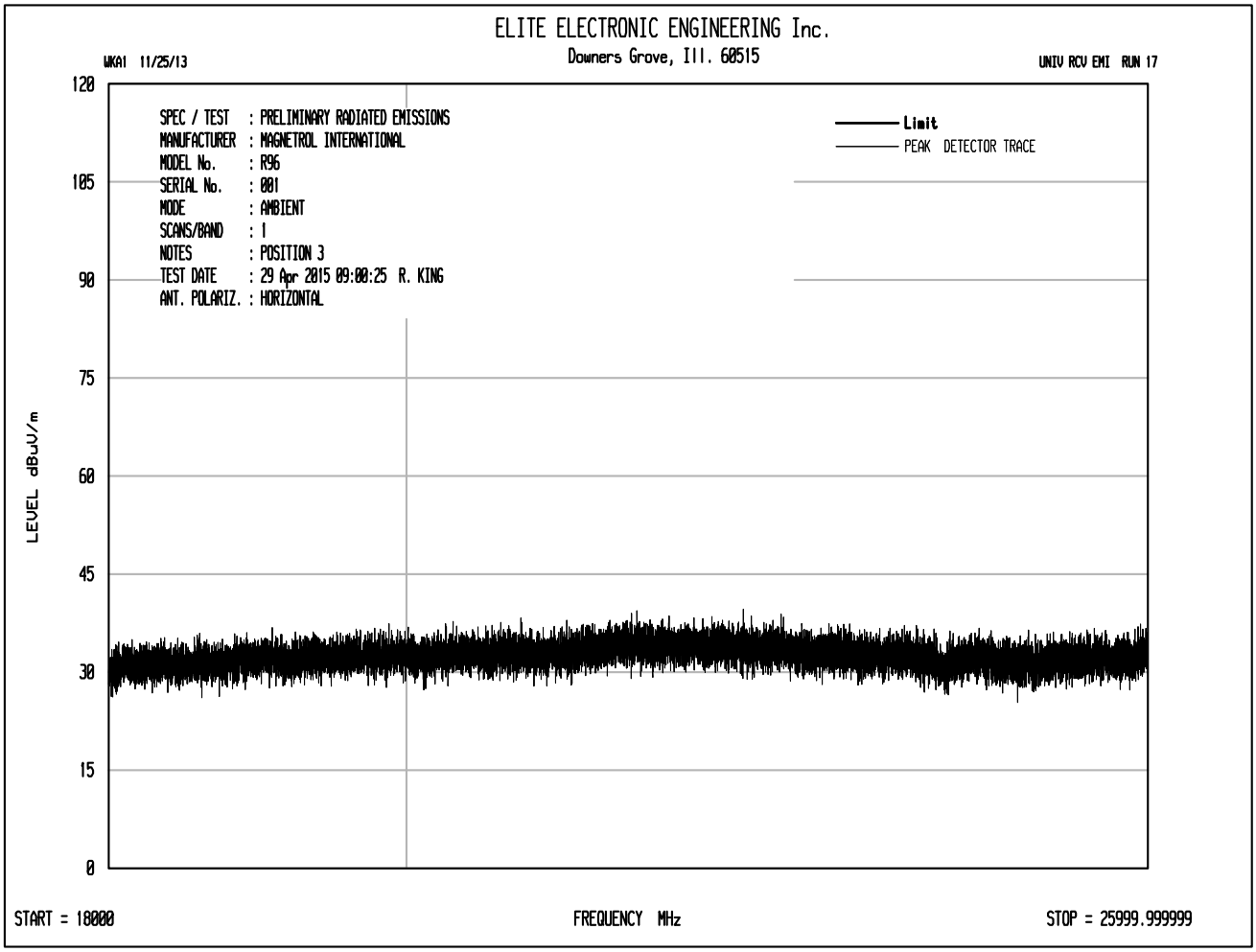

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 17
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 10:38:17 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

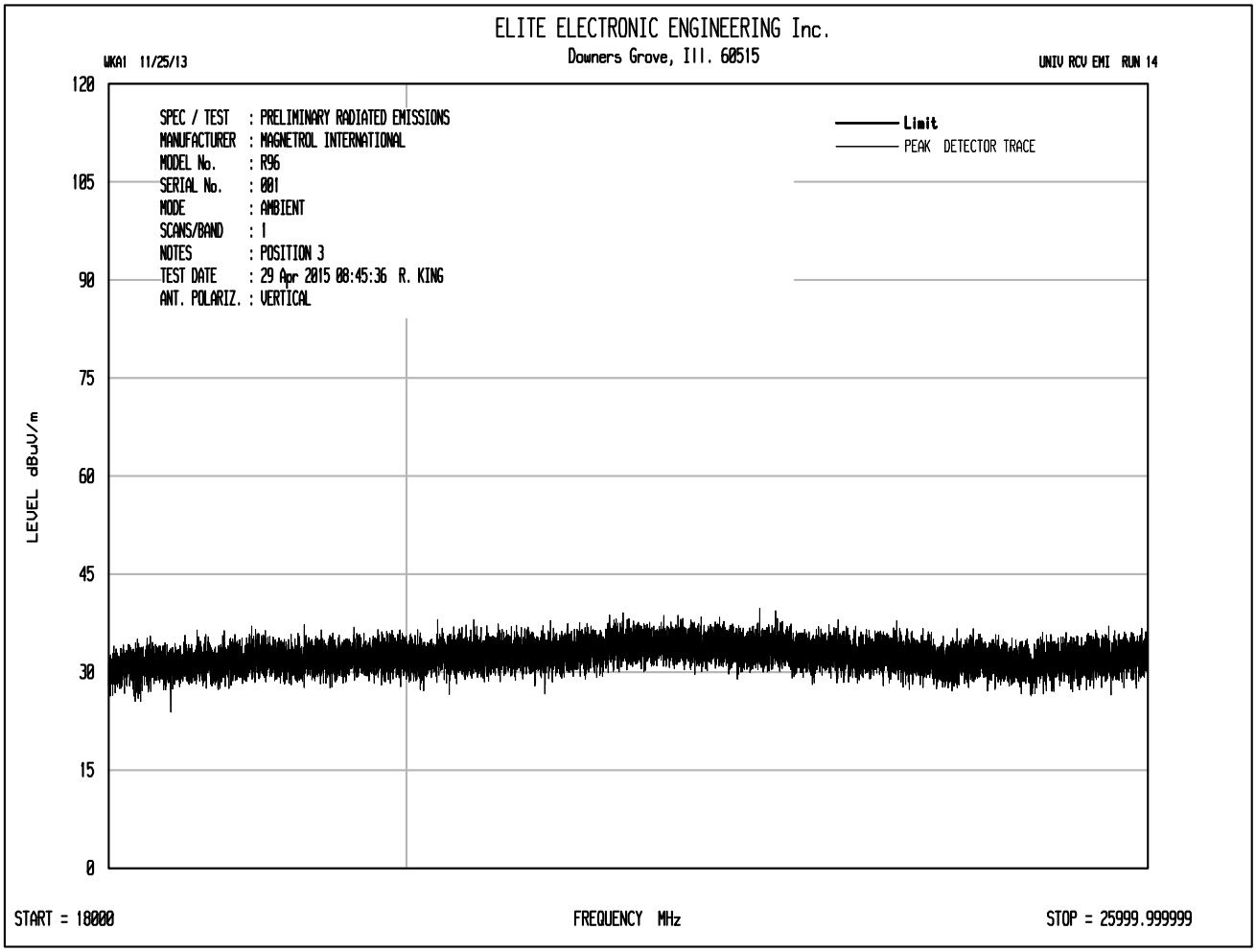

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 3
TEST DATE : 28 Apr 2015 10:10:51 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

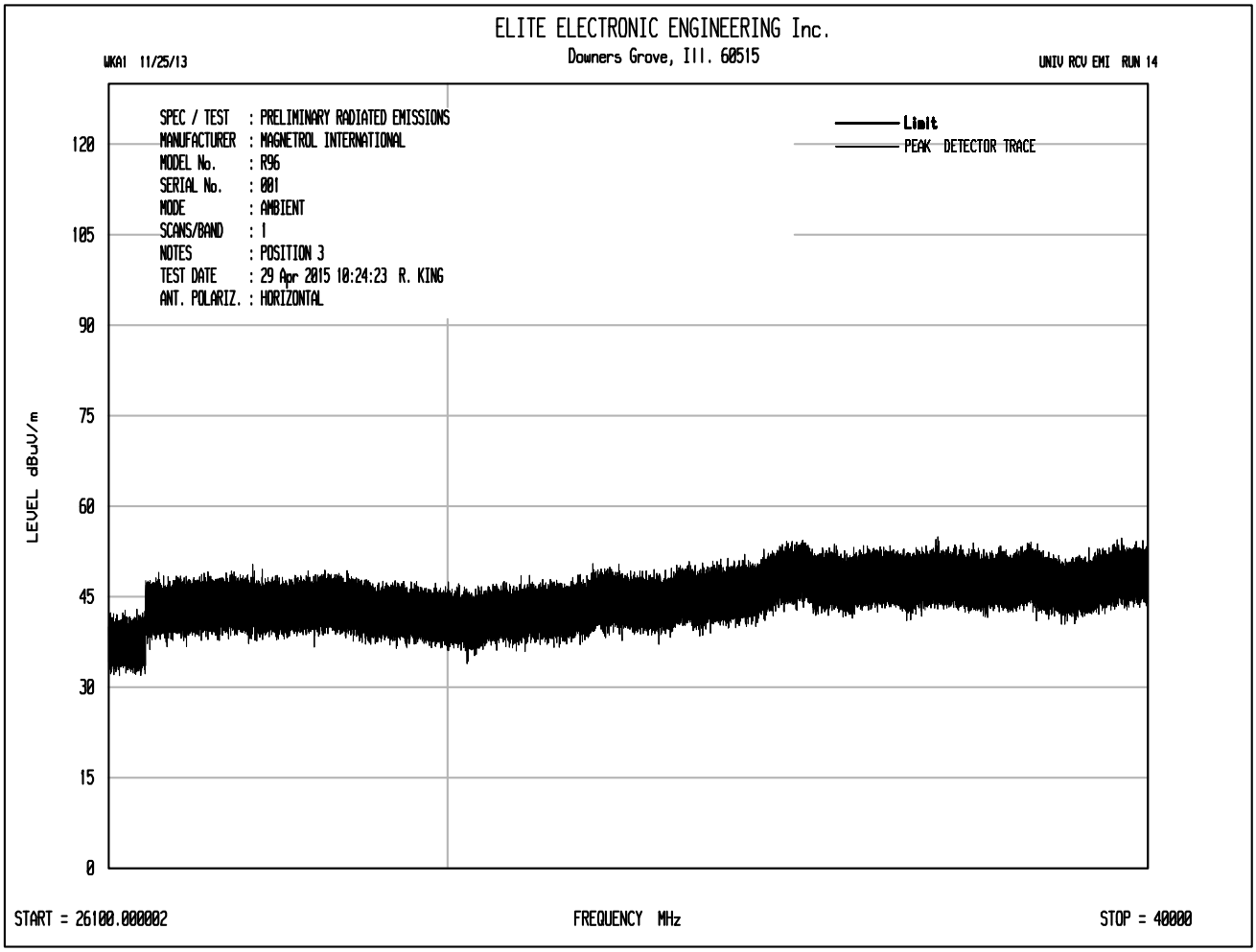

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 7
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 3
TEST DATE : 28 Apr 2015 10:08:37 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

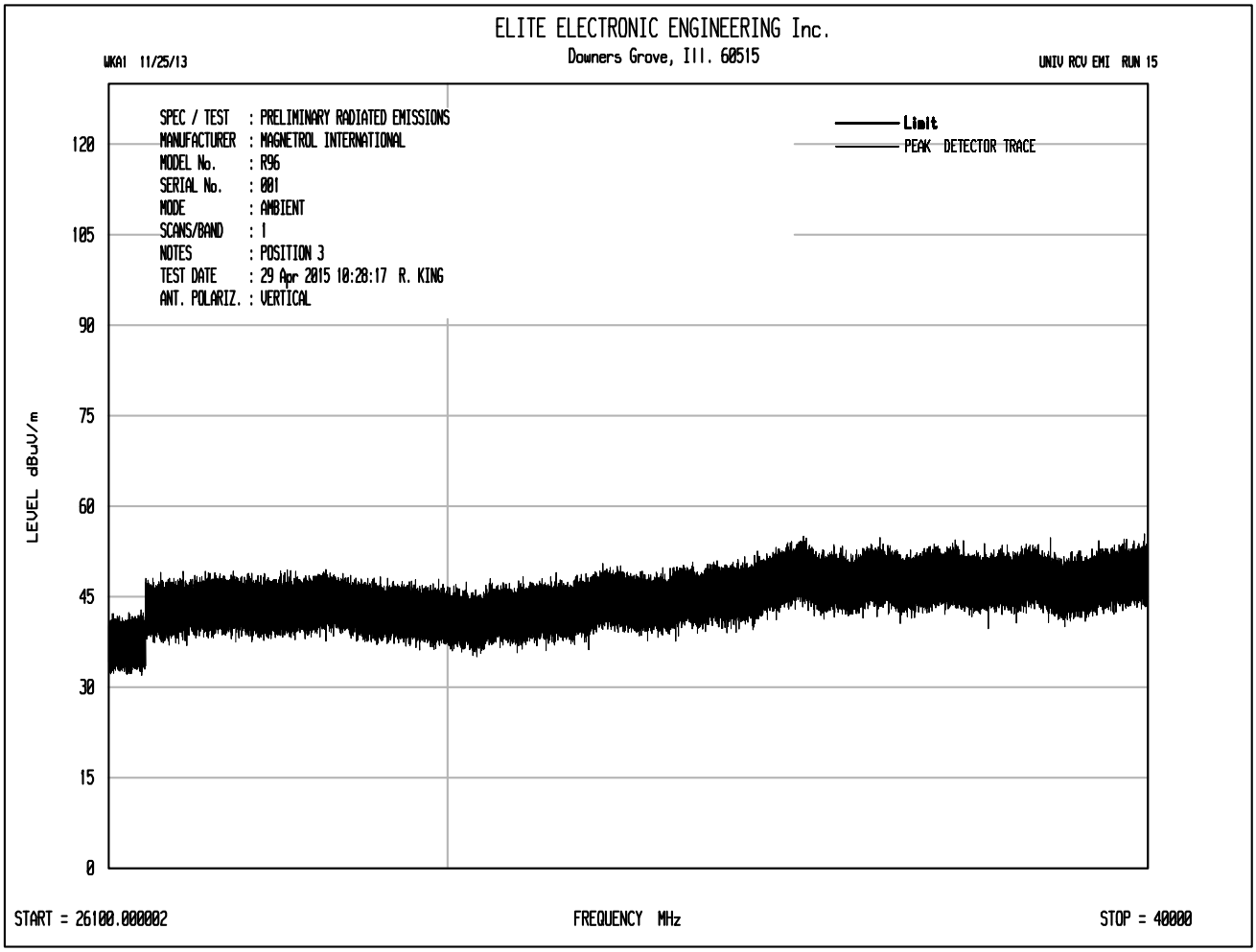

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 48
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 28 Apr 2015 14:36:13 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

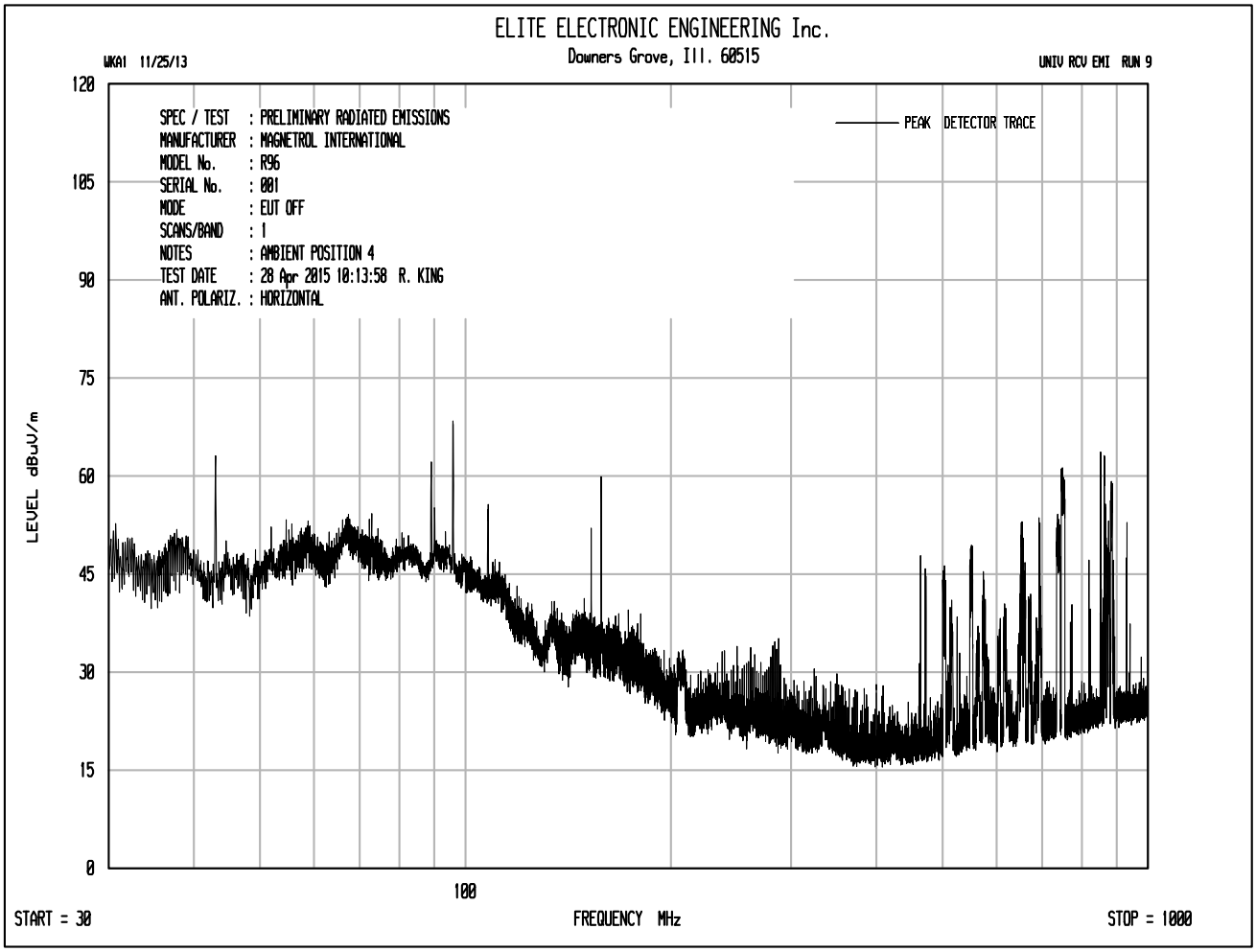

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EMI RUN 39
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 28 Apr 2015 14:29:55 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

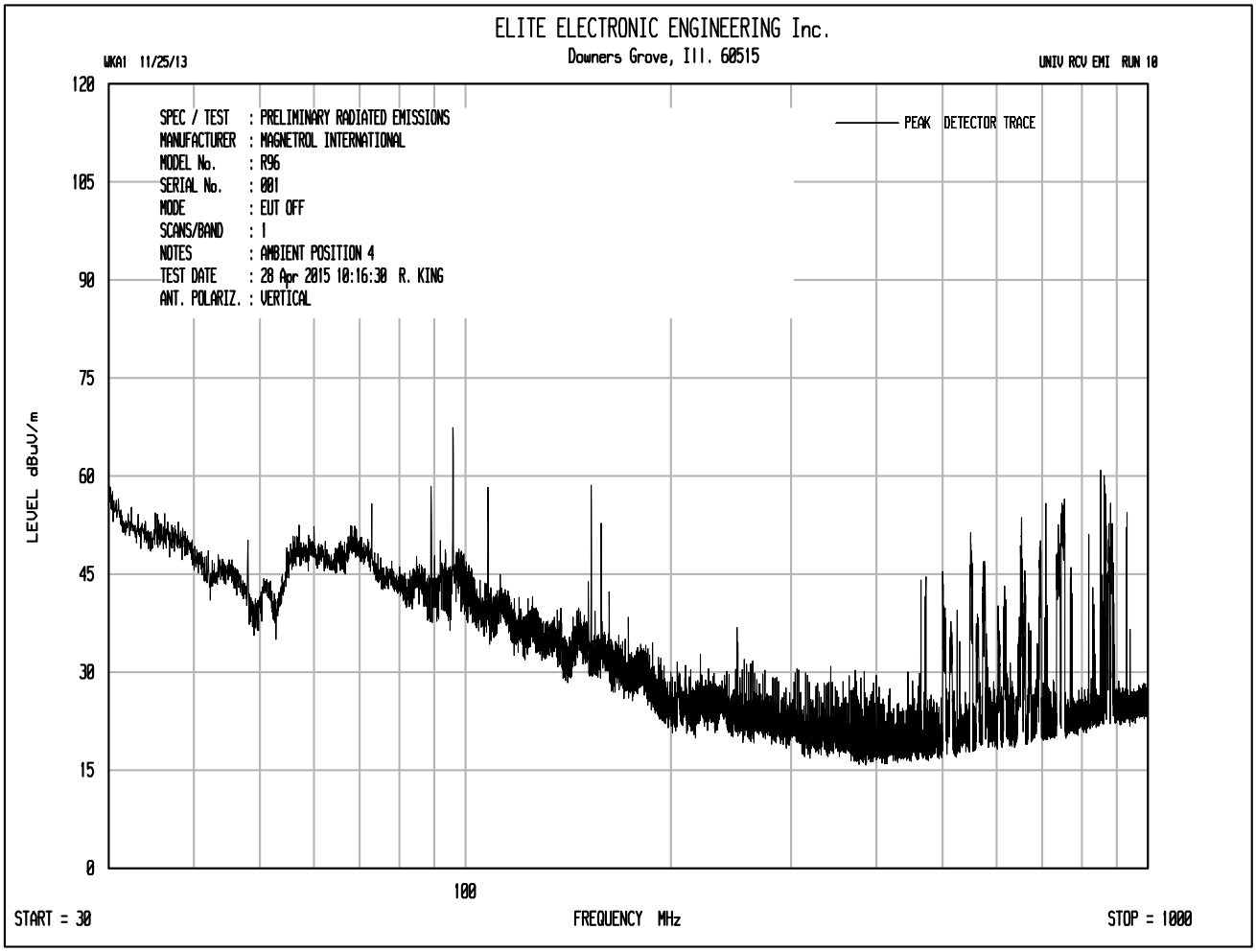

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EMI RUN 17
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 09:00:25 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

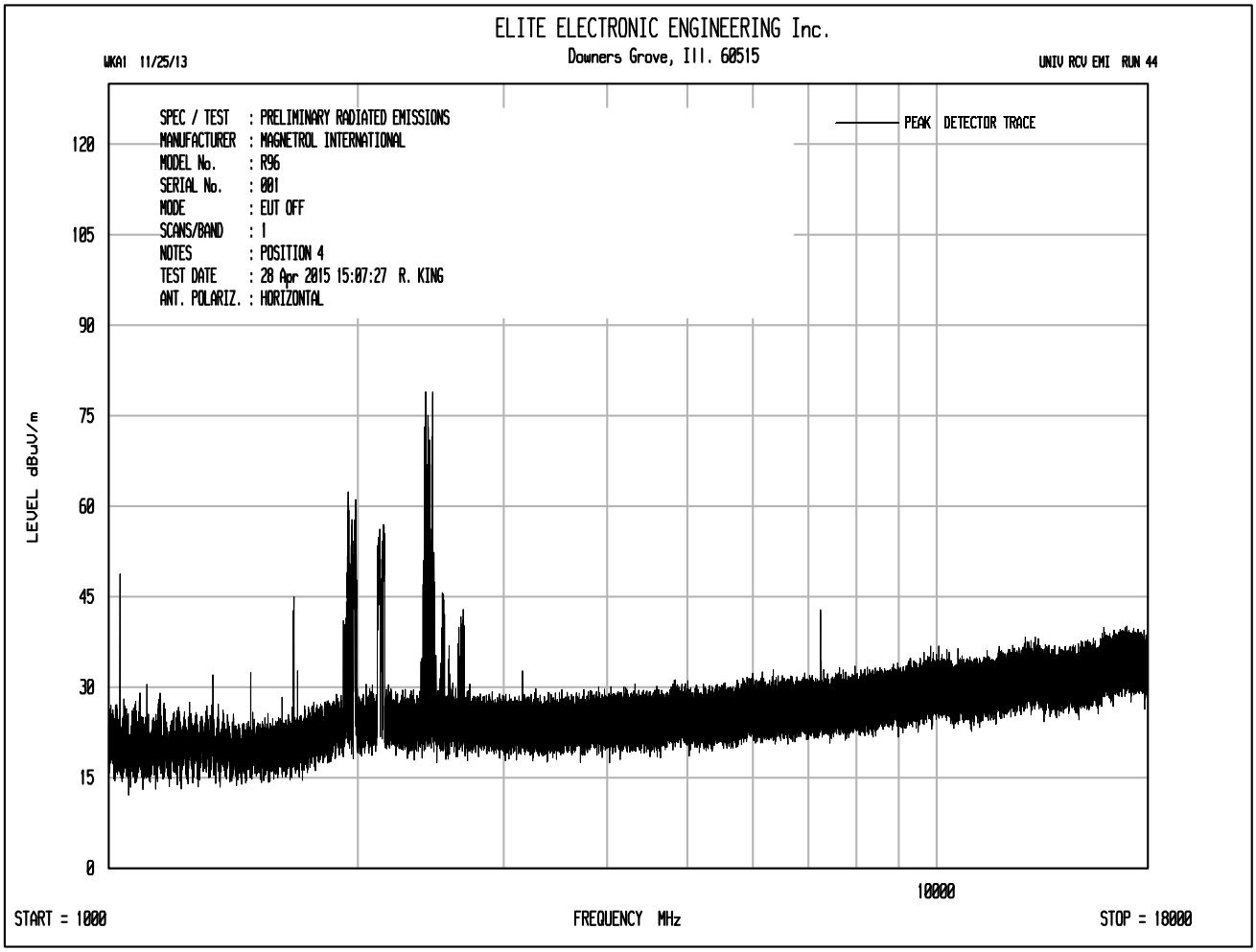

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 14
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 08:45:36 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

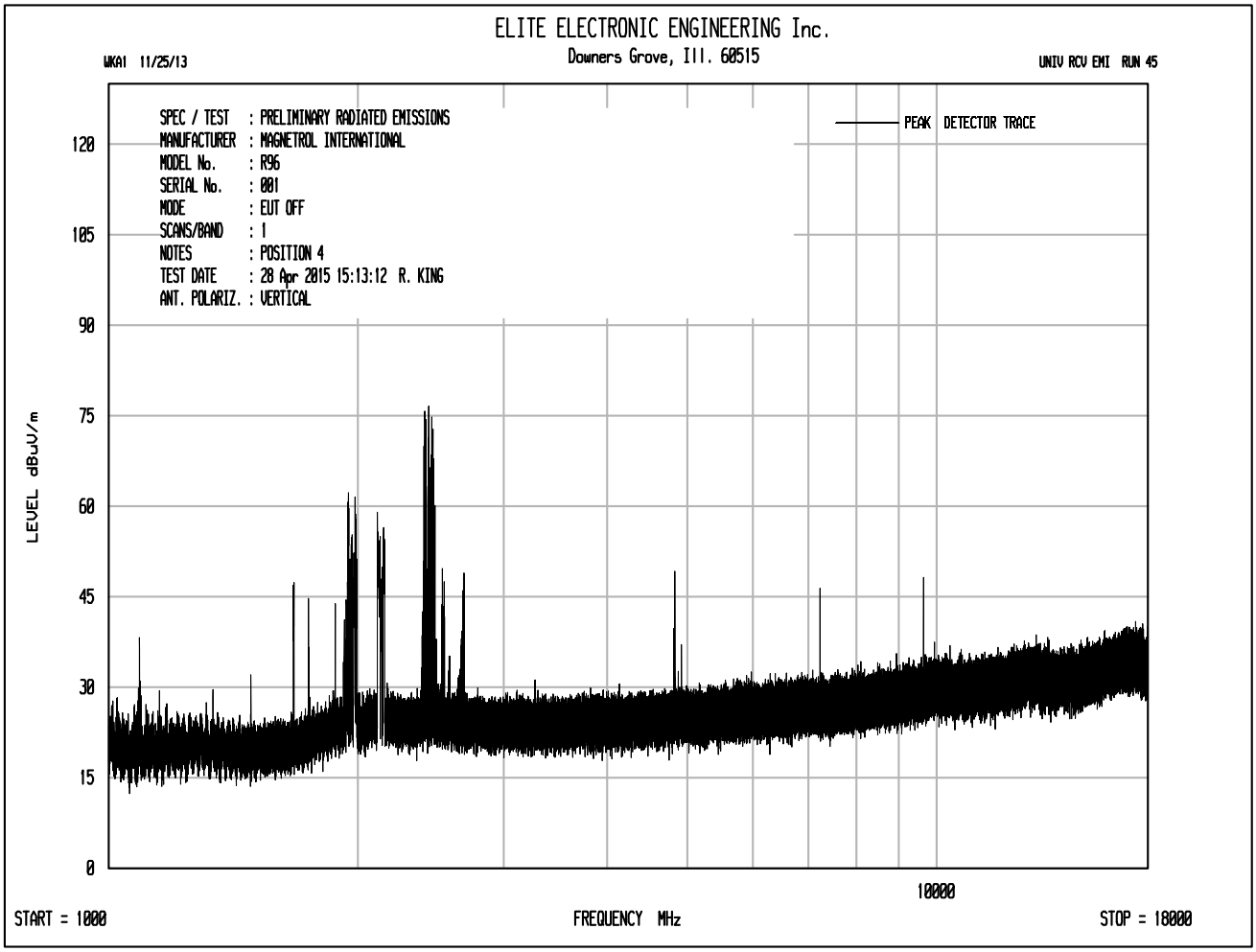

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 14
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 10:24:23 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

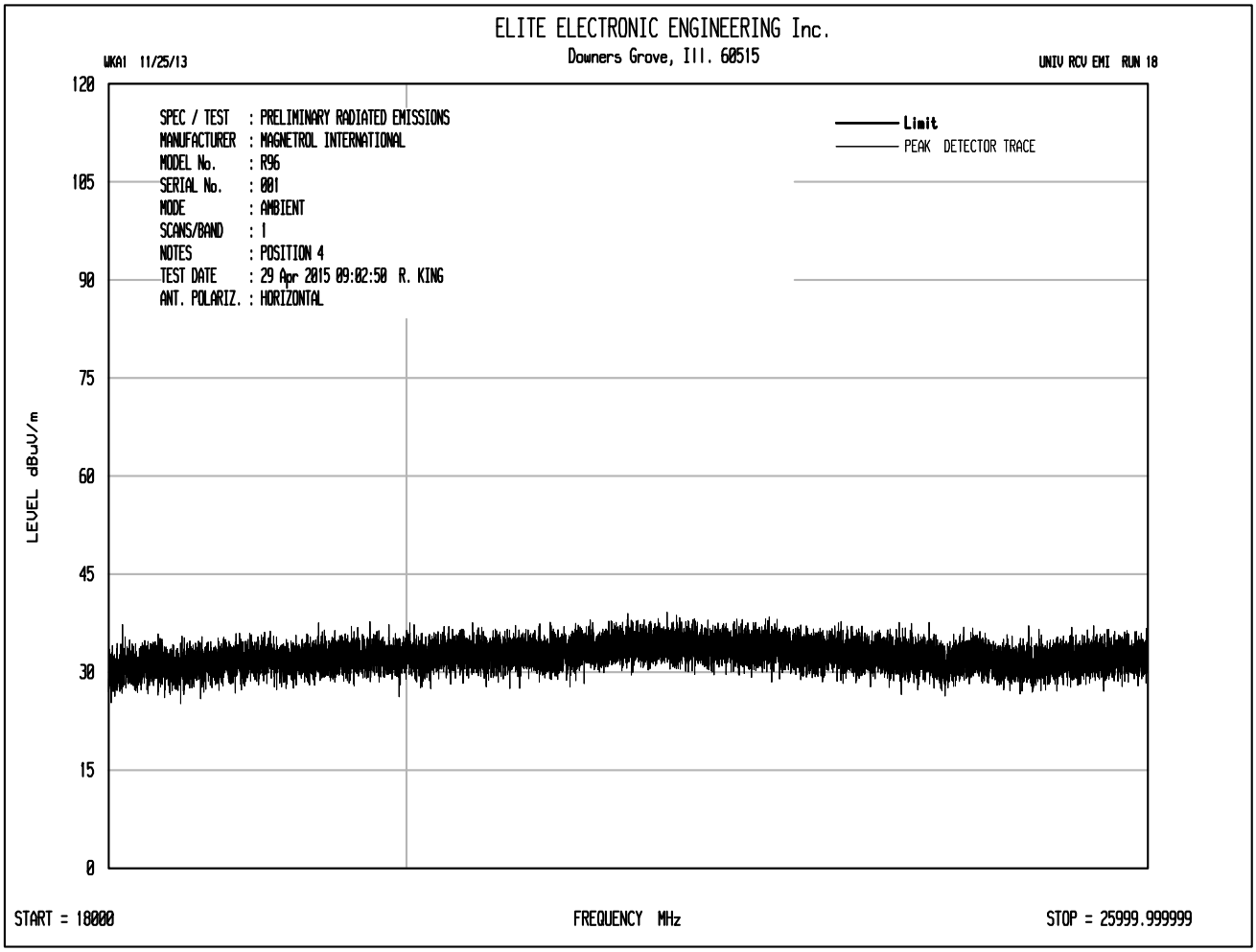

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 15
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 10:28:17 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

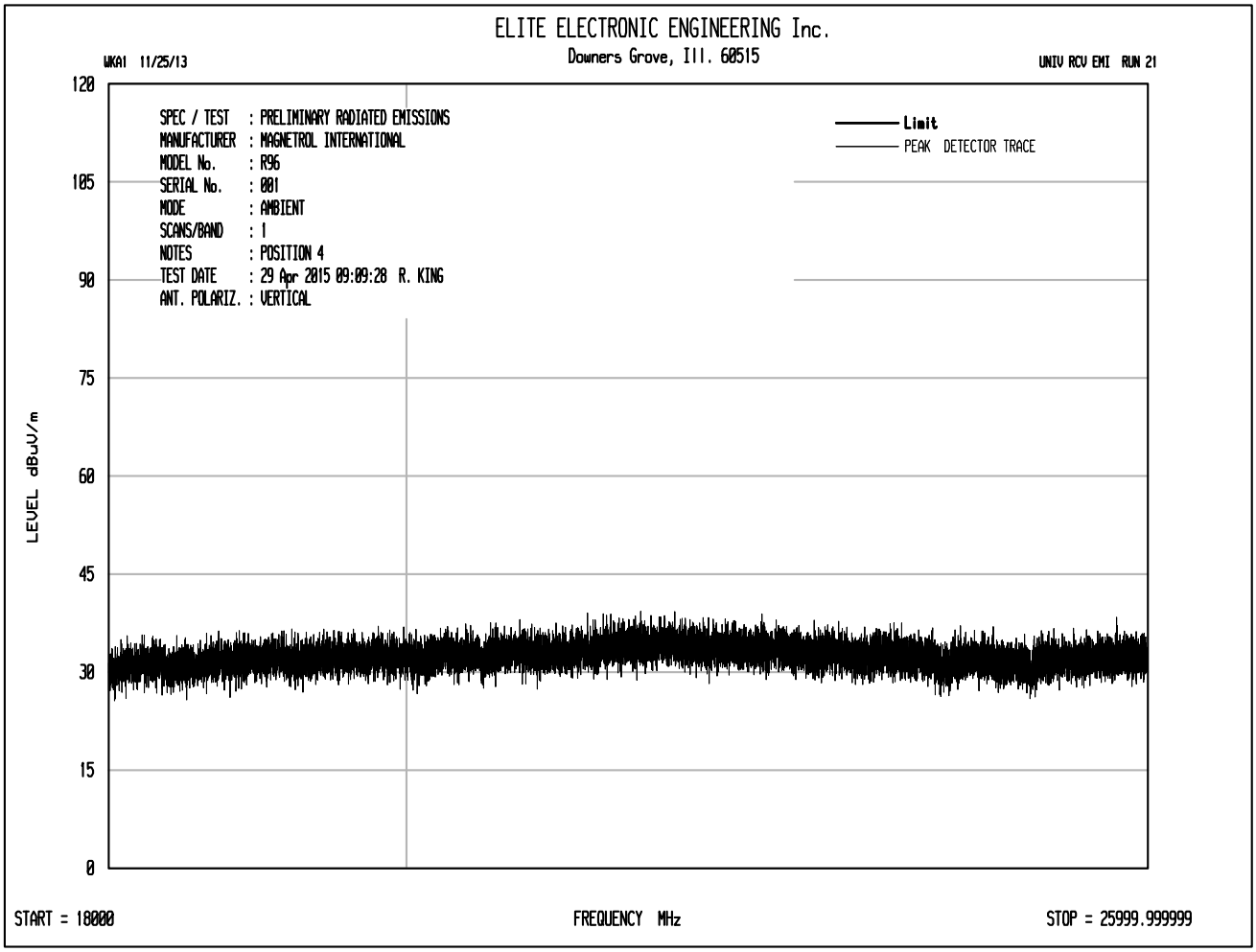

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 4
TEST DATE : 28 Apr 2015 10:13:58 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

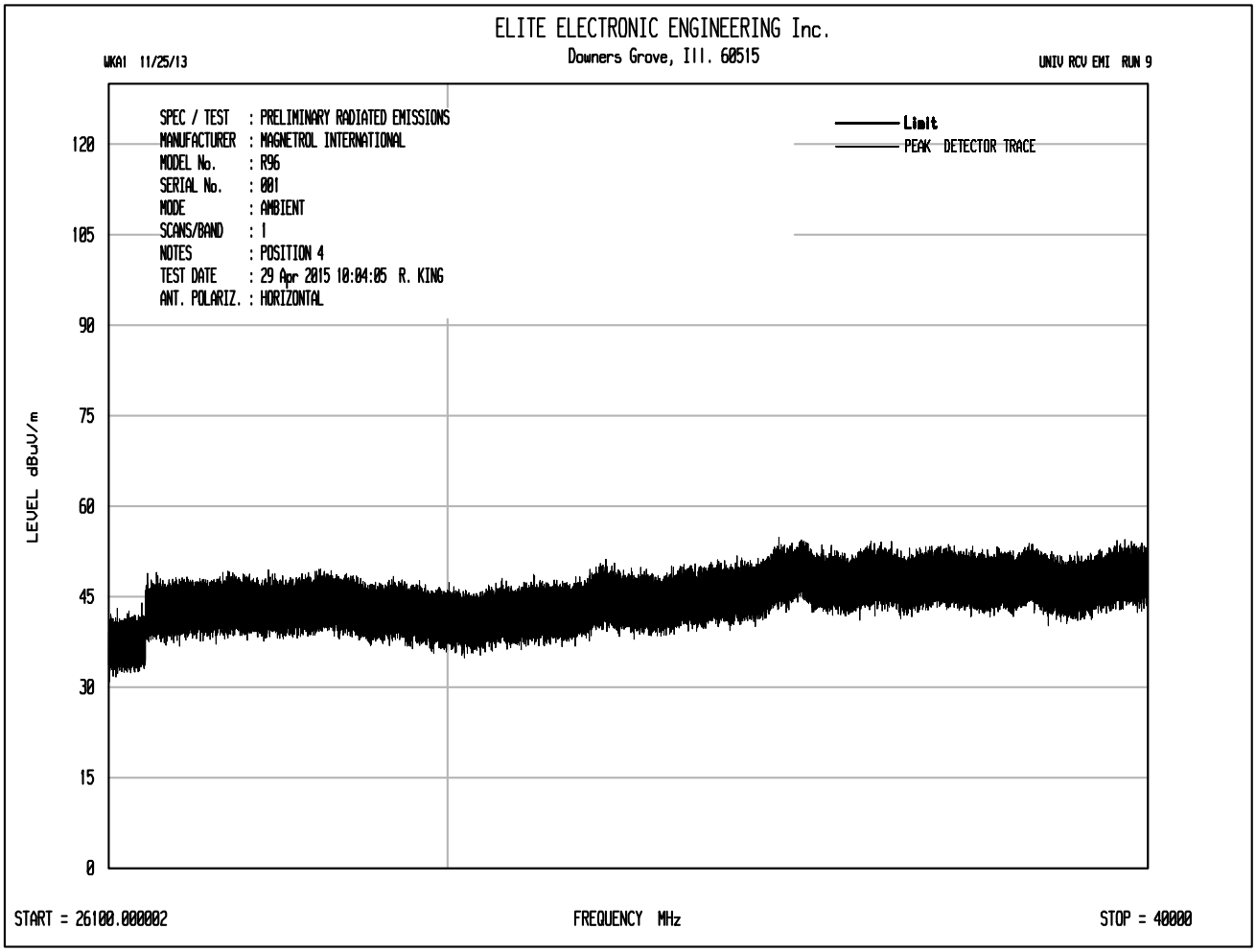

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 10
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 4
TEST DATE : 28 Apr 2015 10:16:30 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

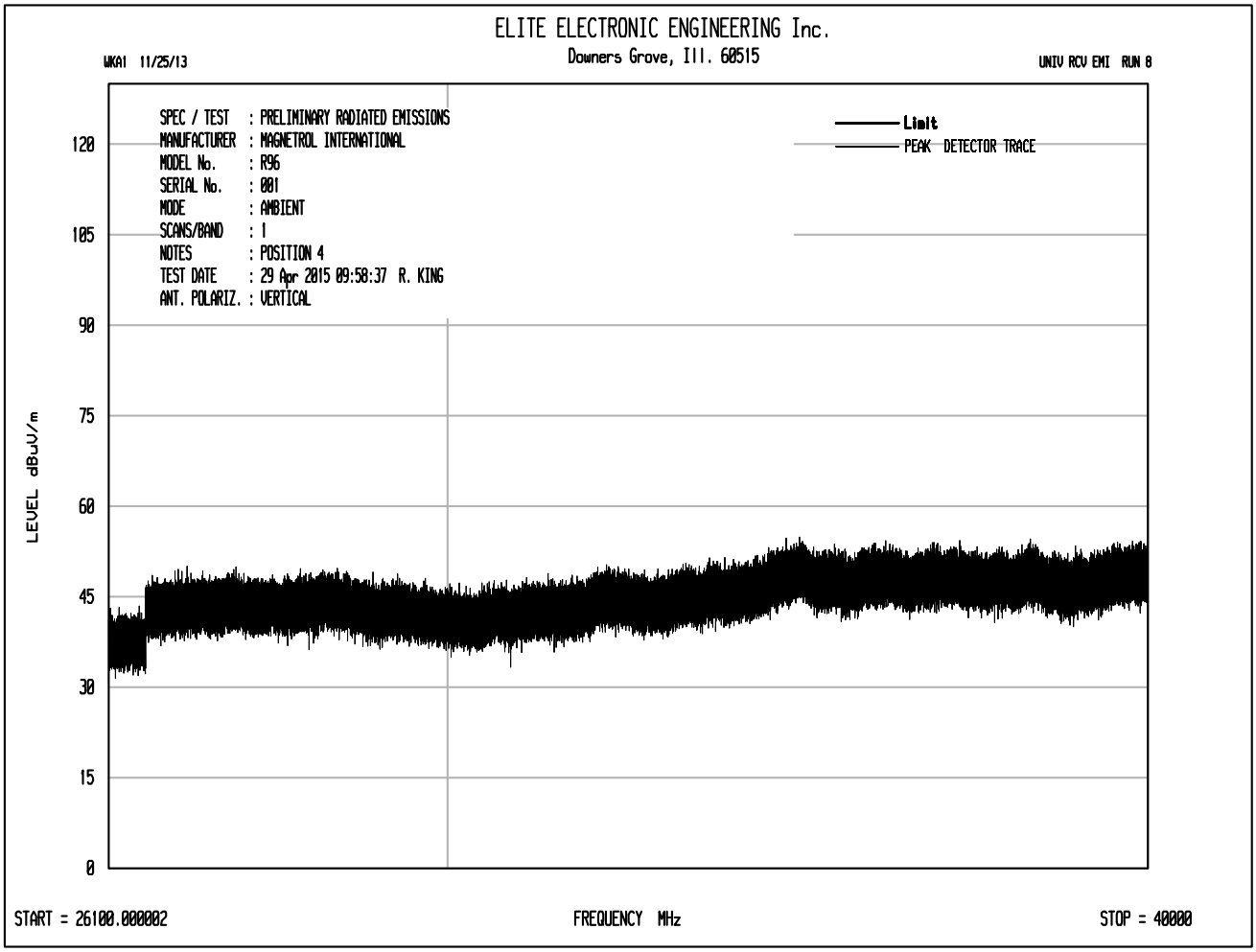

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EMI RUN 44
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 28 Apr 2015 15:07:27 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

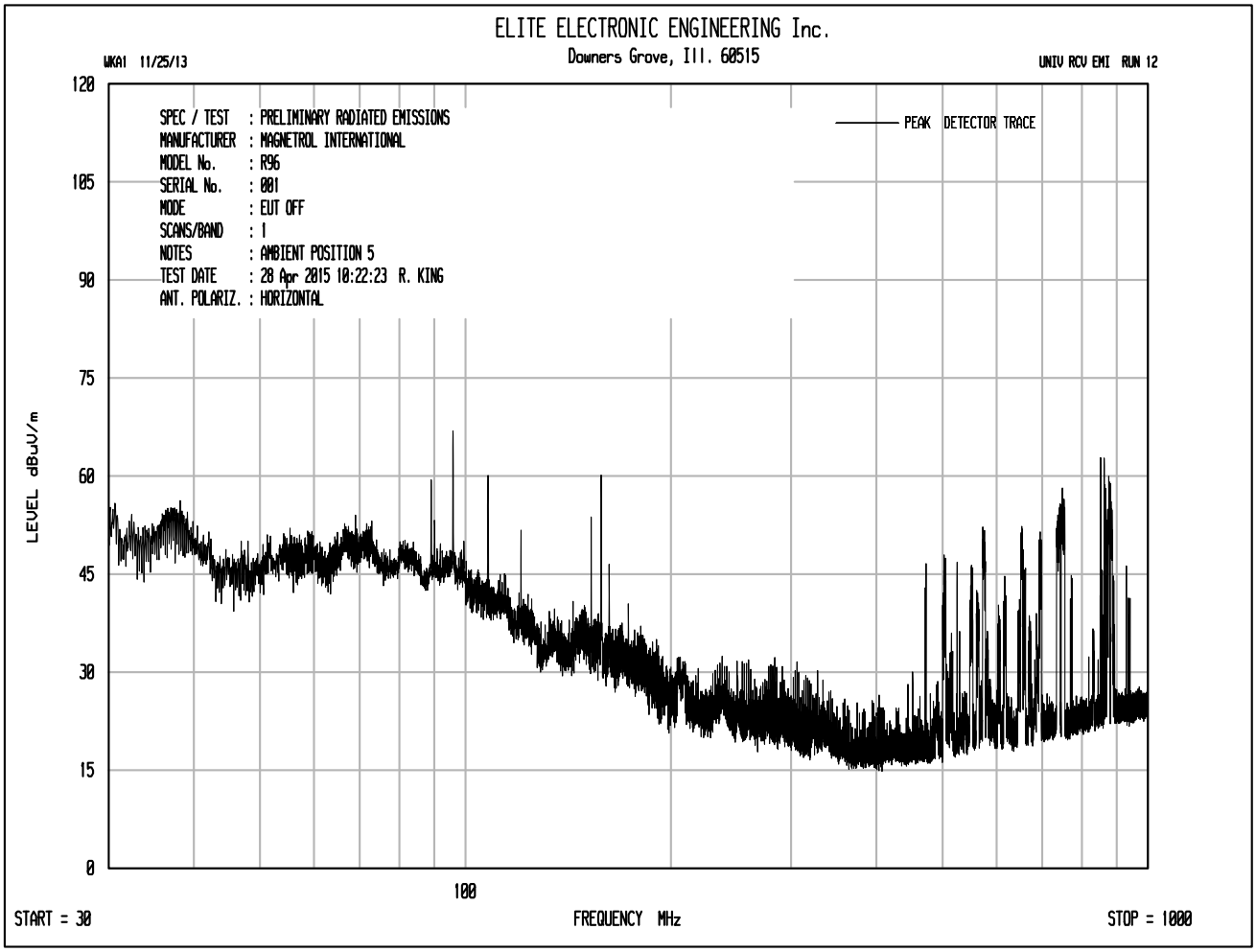

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 45
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 28 Apr 2015 15:13:12 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

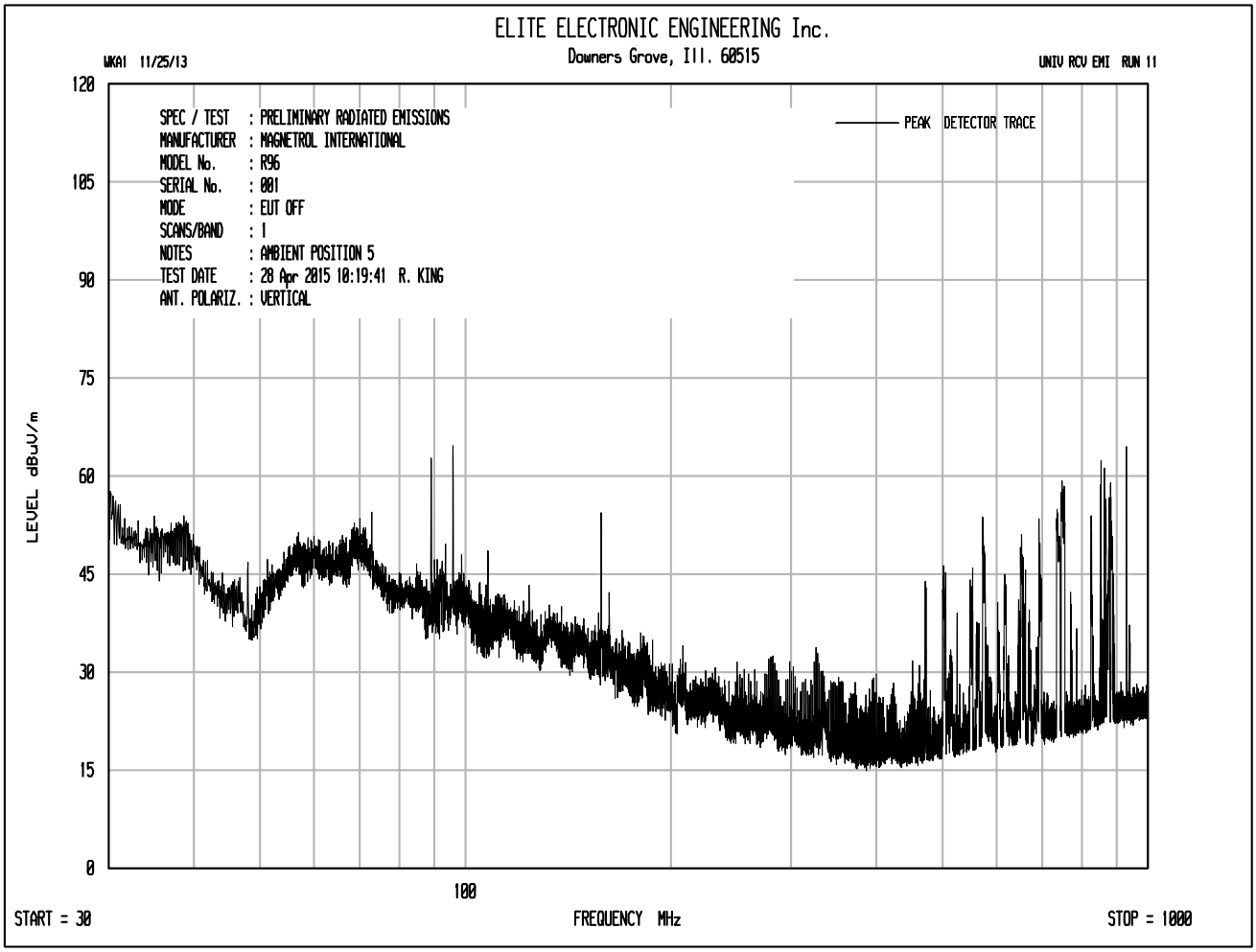

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 18
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 09:02:50 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

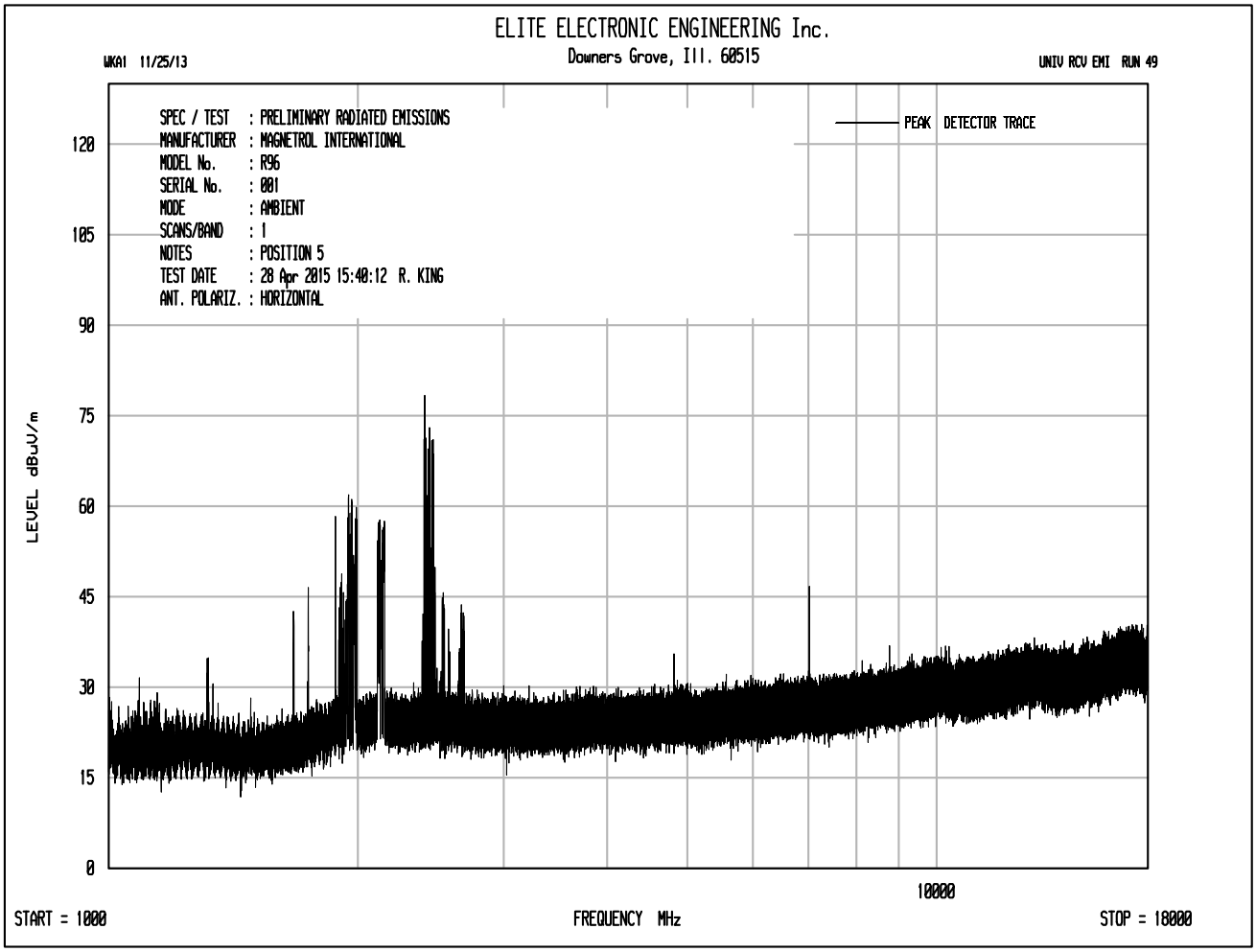

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 21
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 09:09:28 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

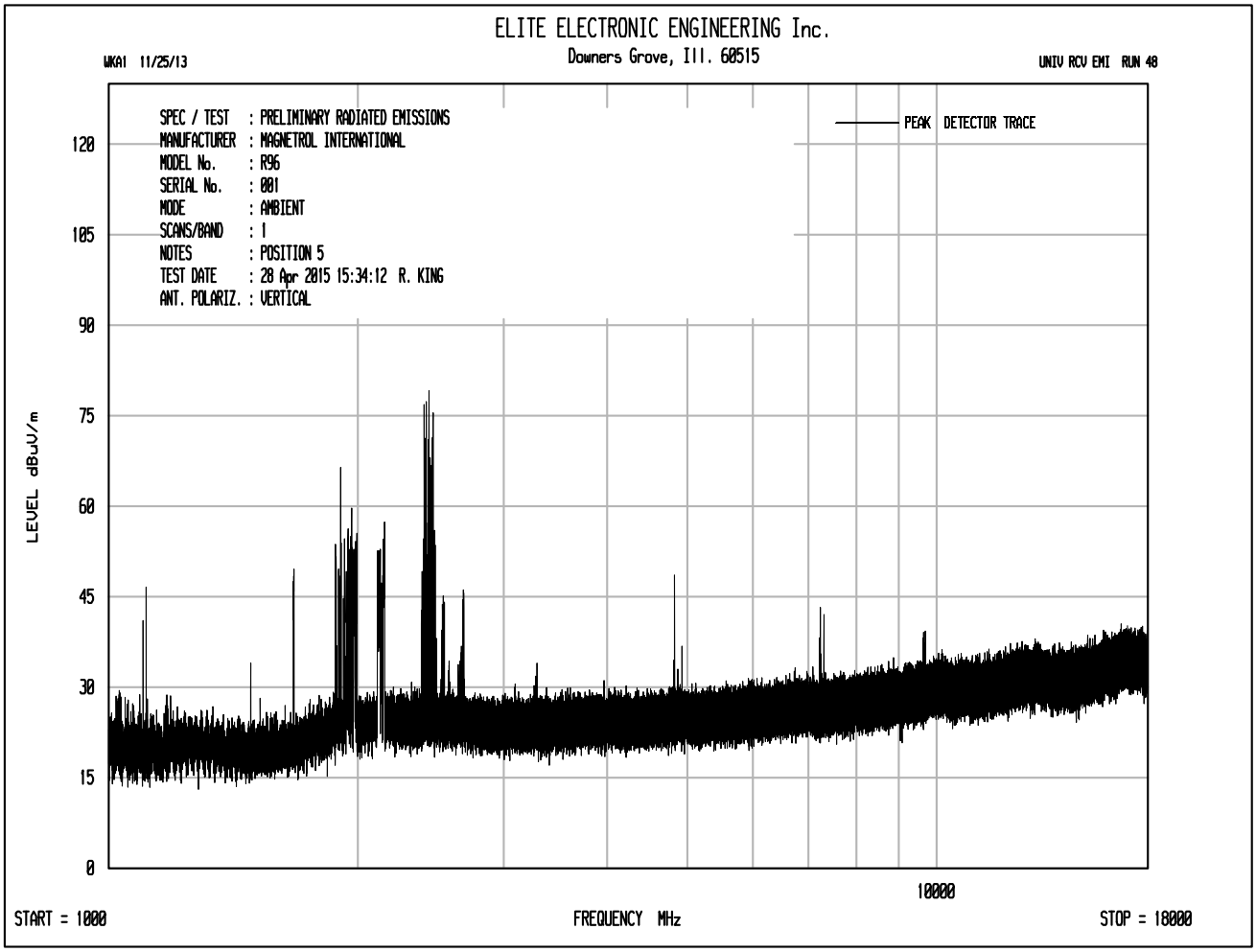

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 10:04:05 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

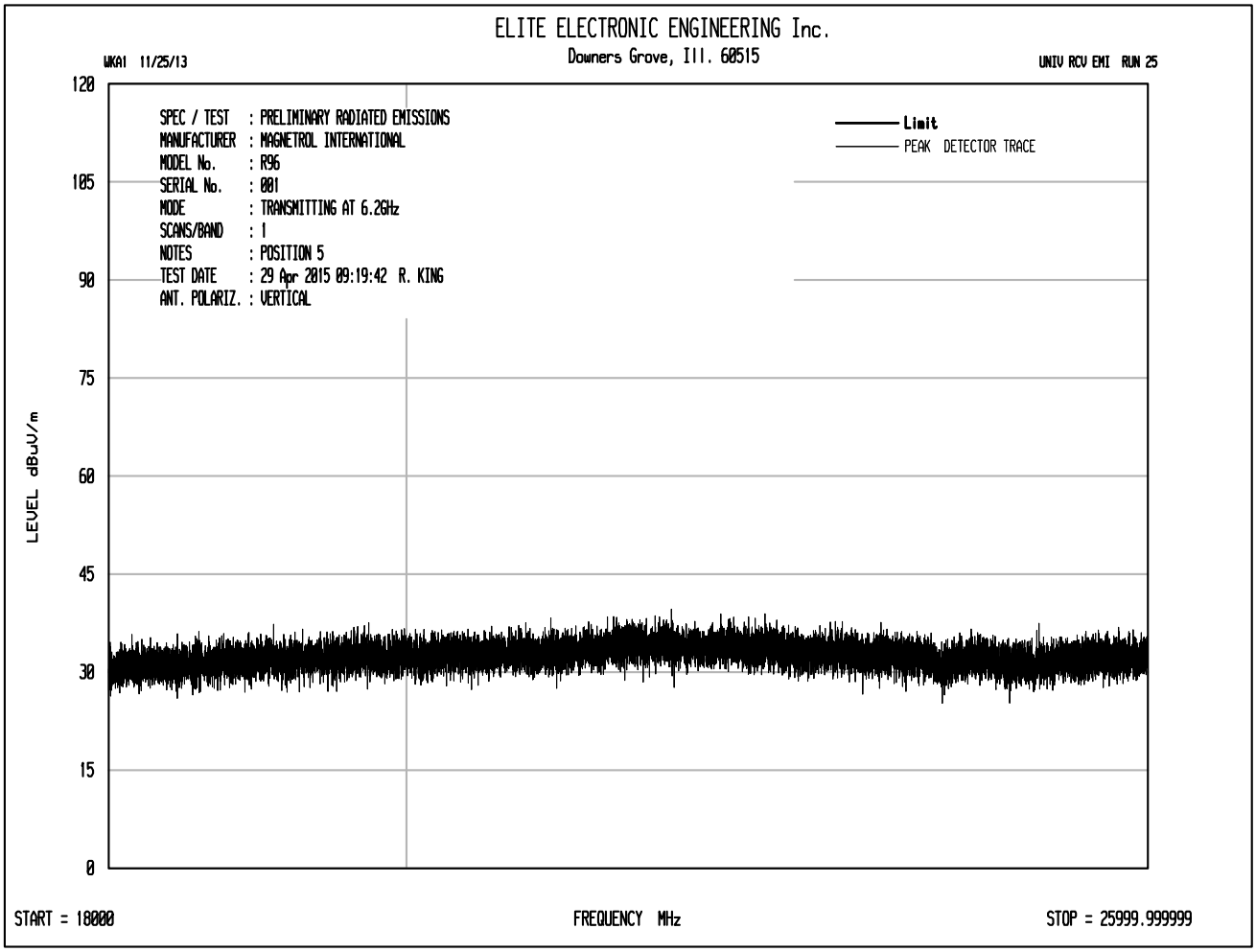

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 09:58:37 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

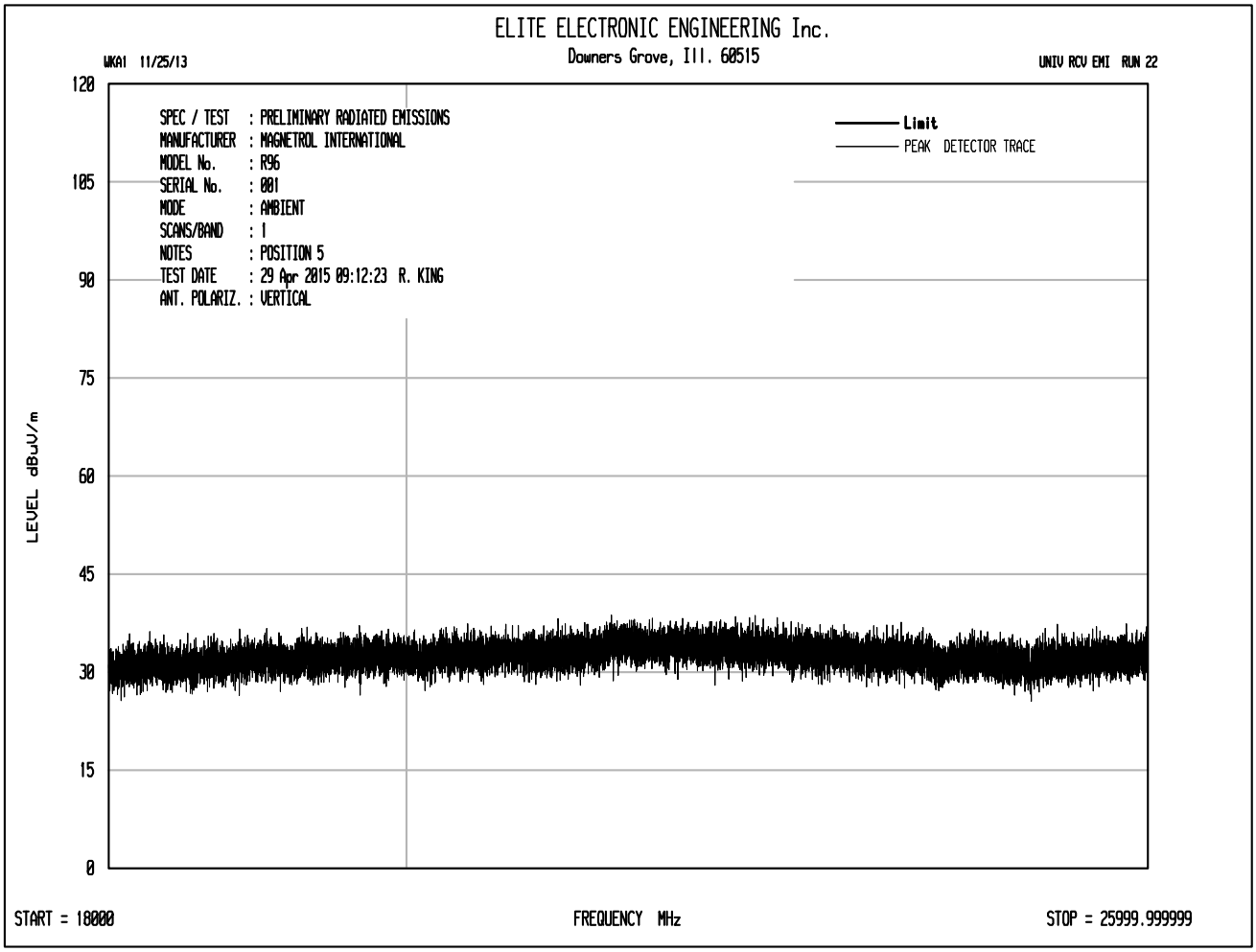

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 12
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 5
TEST DATE : 28 Apr 2015 10:22:23 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

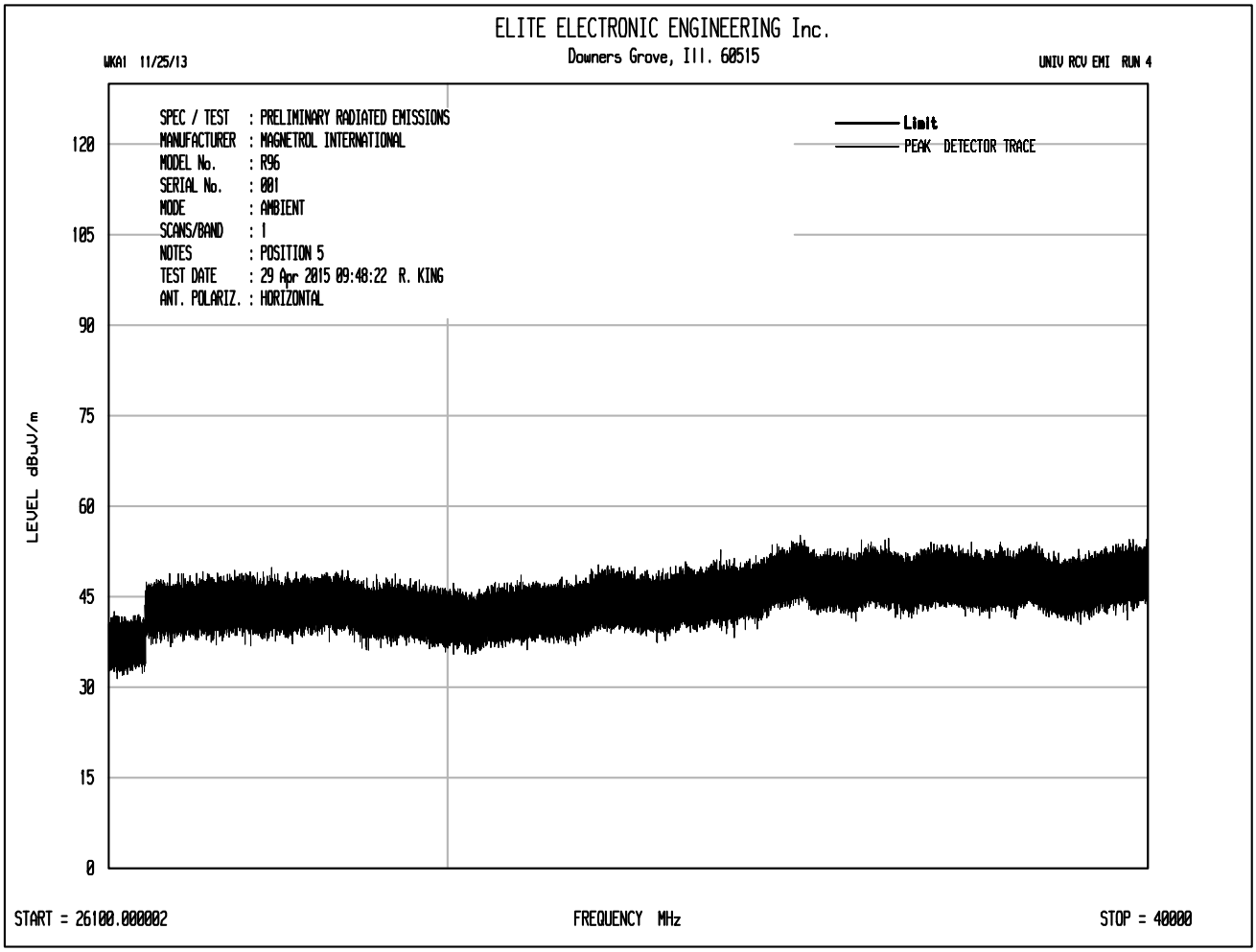

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 11
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : EUT OFF
SCANS/BAND : 1
NOTES : AMBIENT POSITION 5
TEST DATE : 28 Apr 2015 10:19:41 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

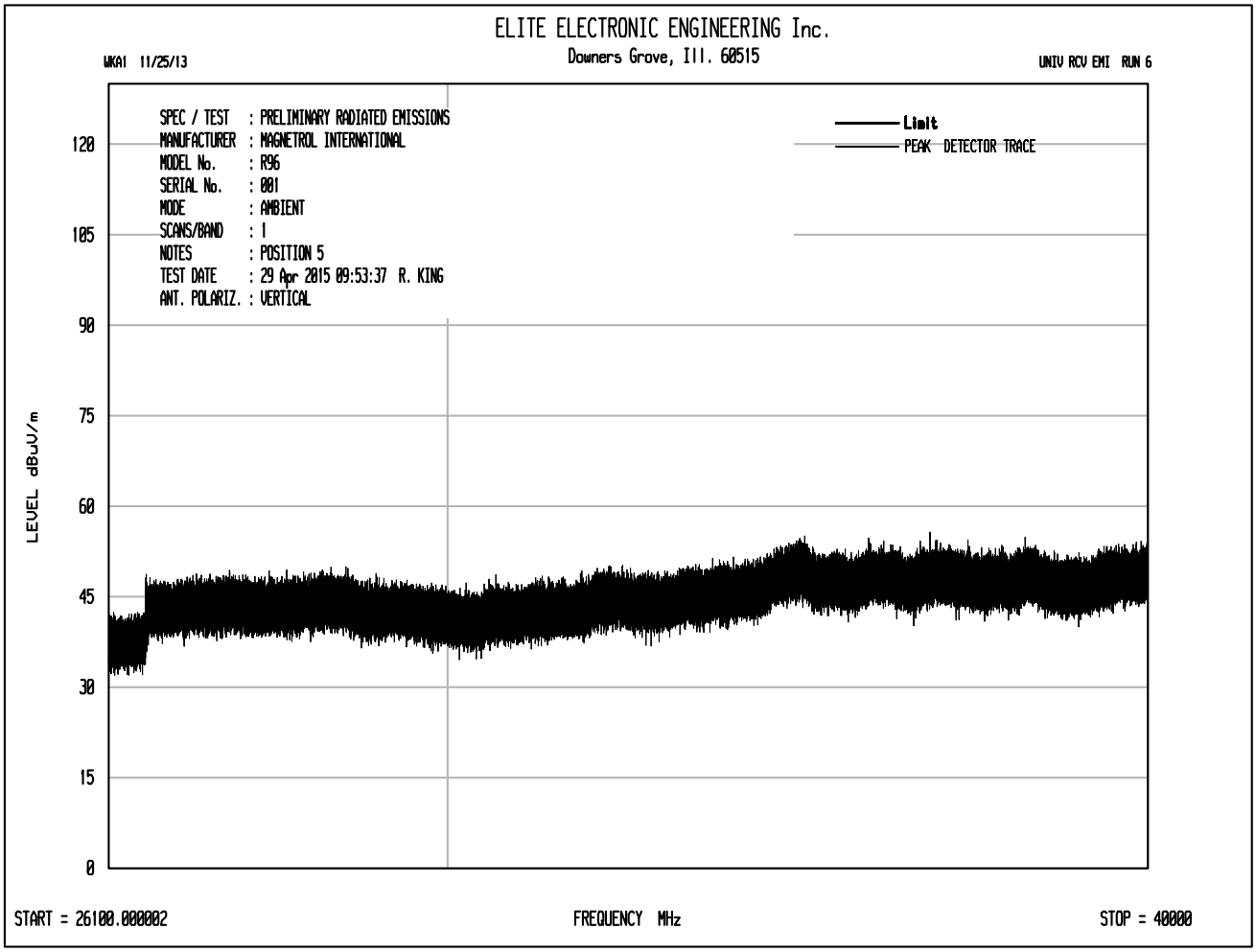

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 49
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 28 Apr 2015 15:40:12 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

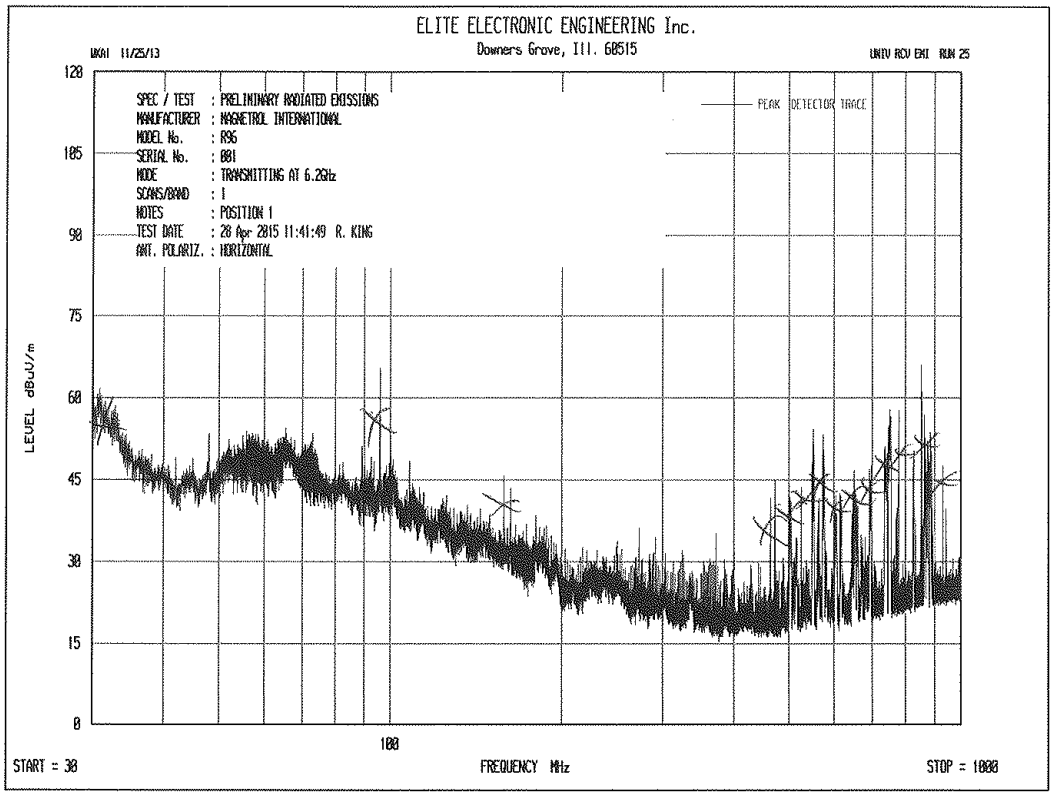

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 48
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 28 Apr 2015 15:34:12 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 25
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:19:42 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

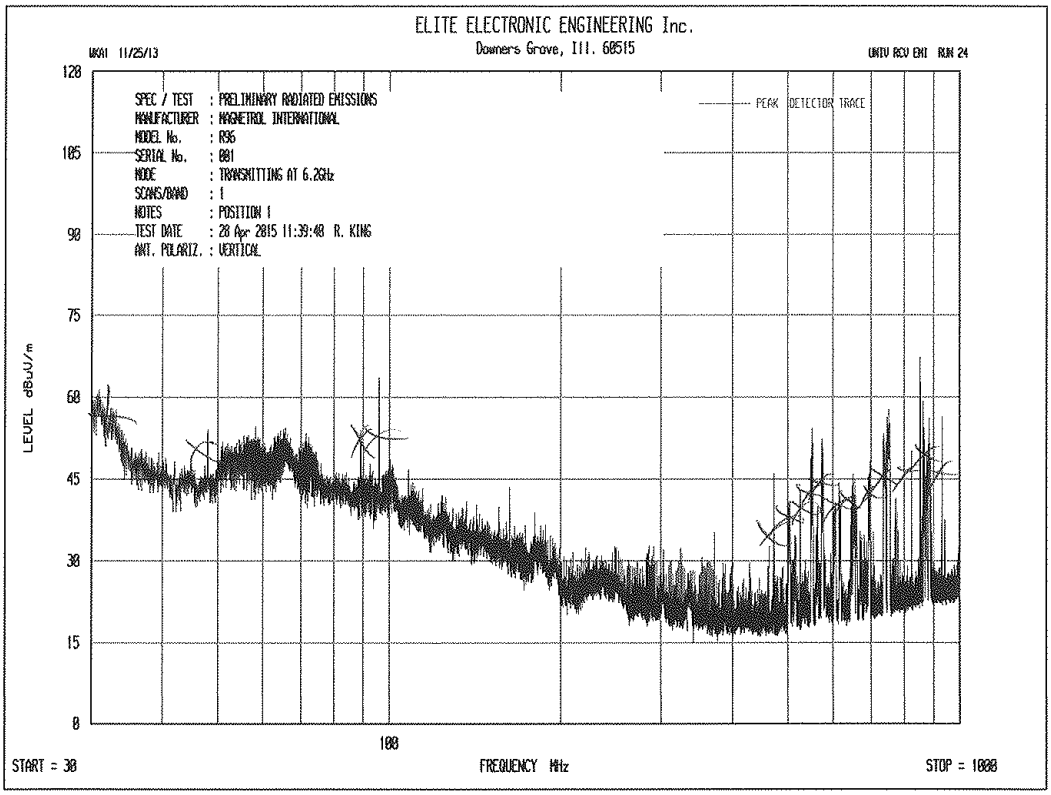

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 22
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:12:23 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 4
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:48:22 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

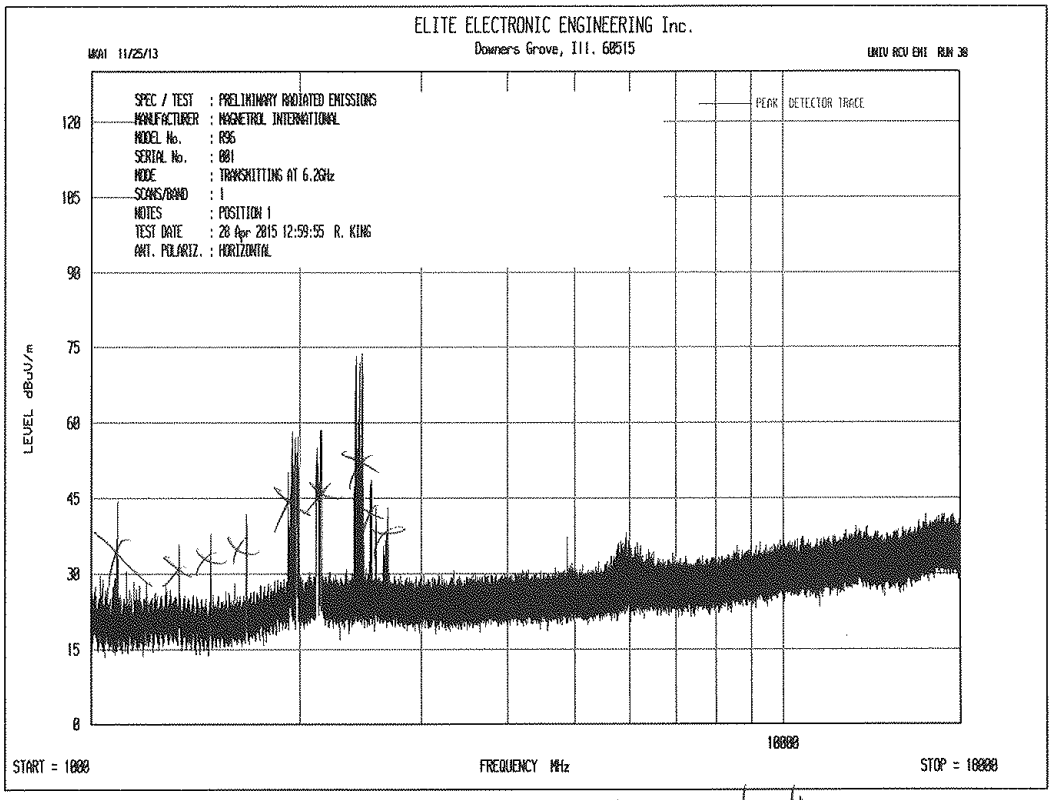

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 6
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:53:37 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000



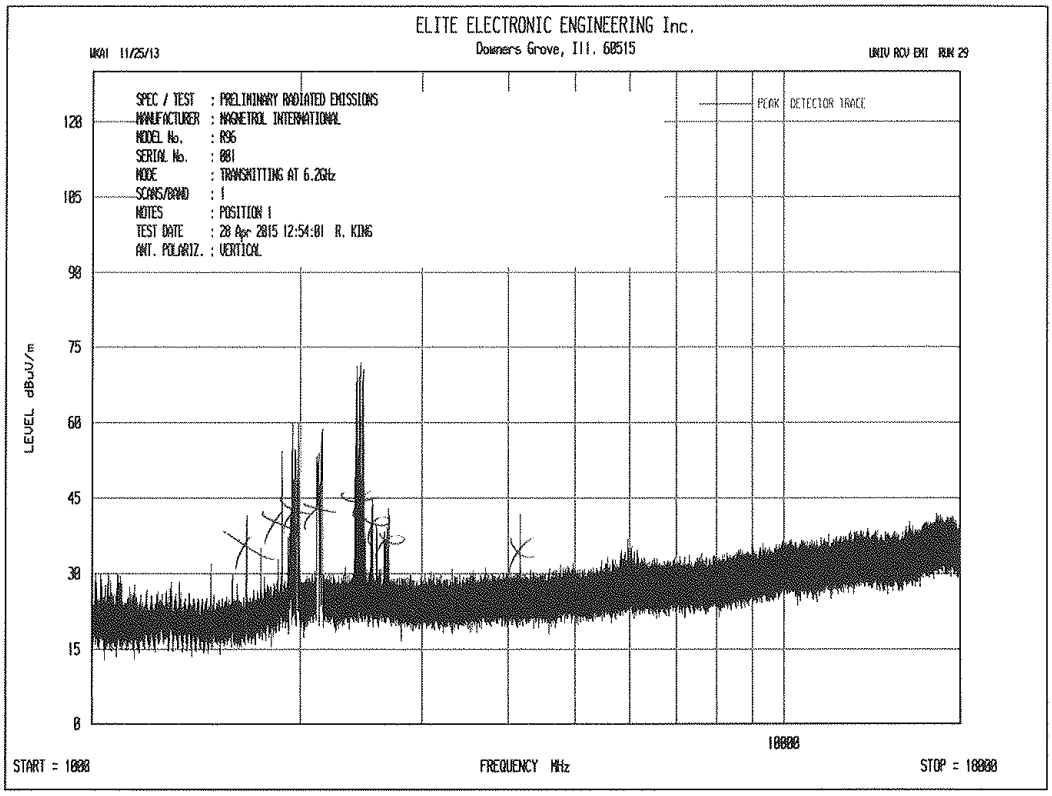
All emissions measured were attributed to the ambient environment.



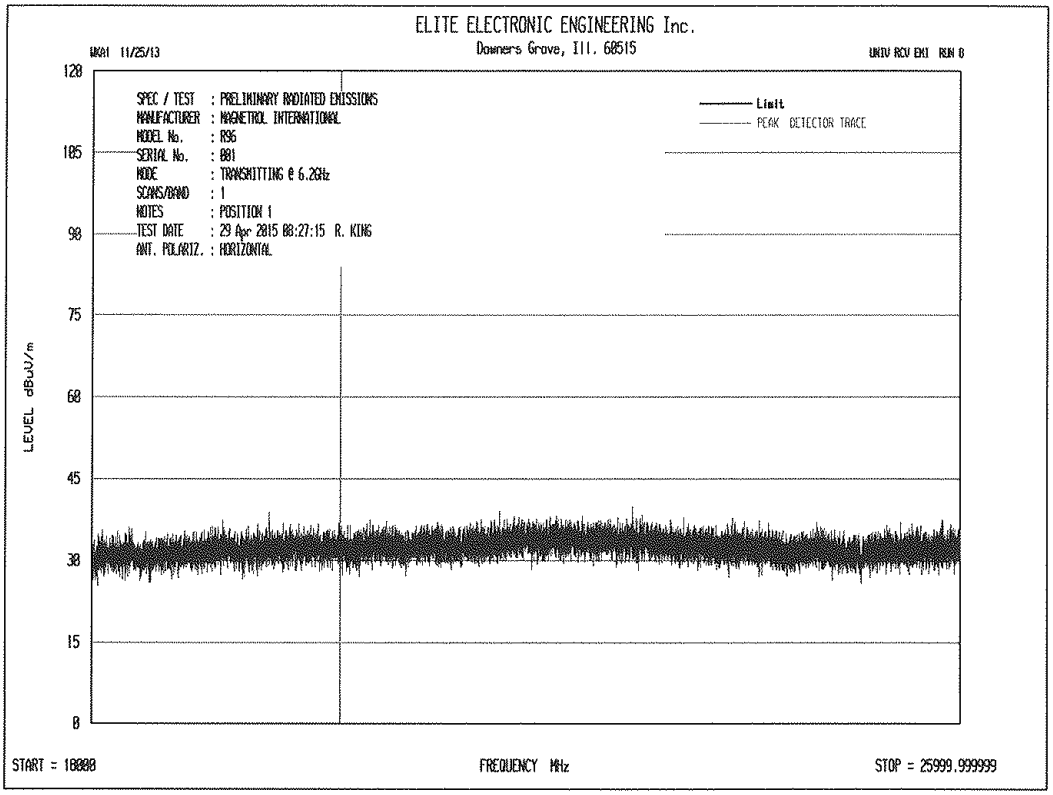
All emissions measured were attributed to the ambient environment.

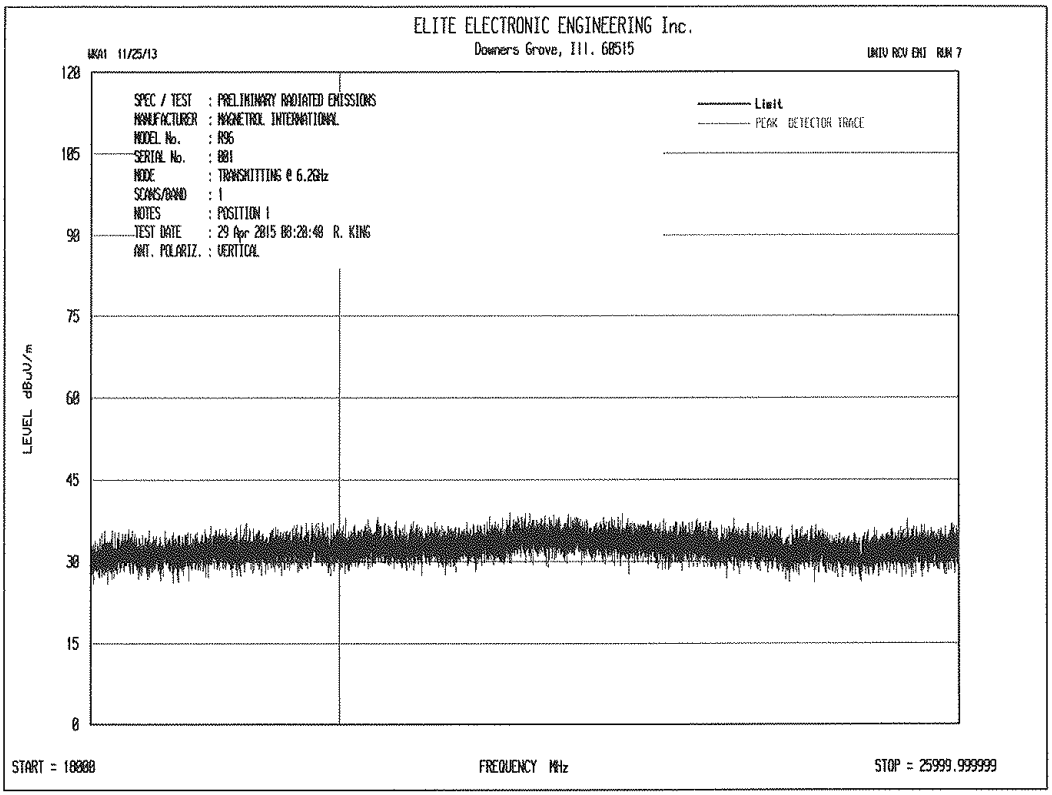


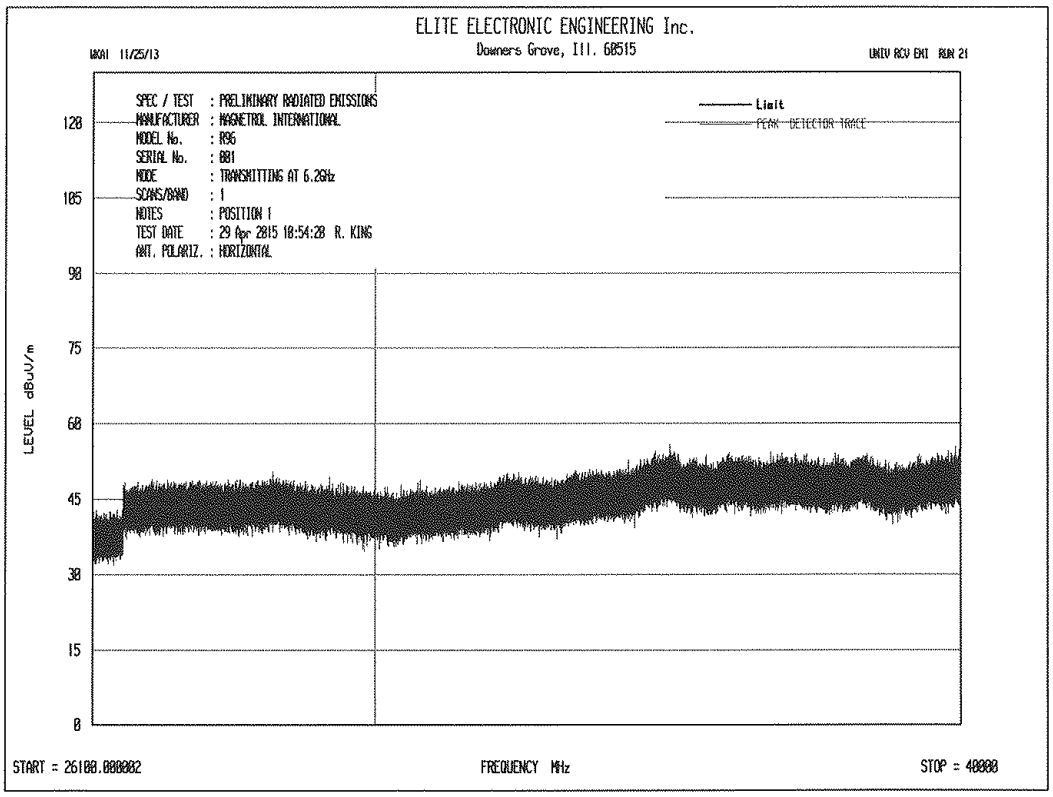
All emissions measured were attributed to the ambient environment.

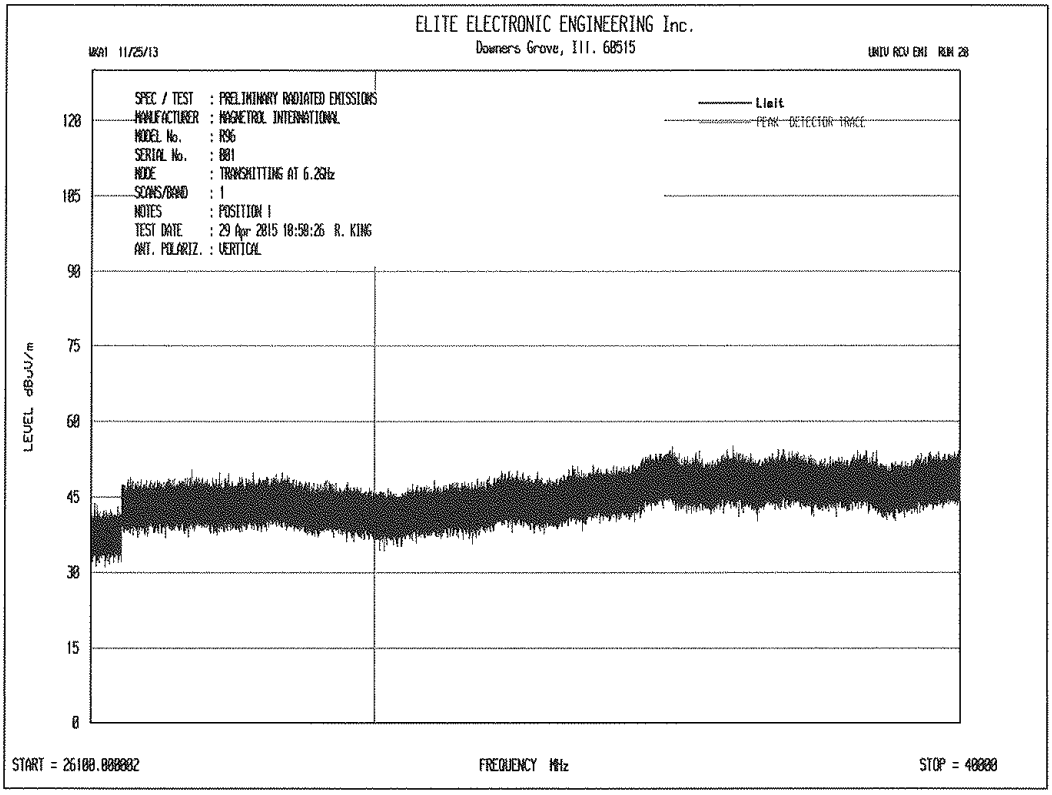


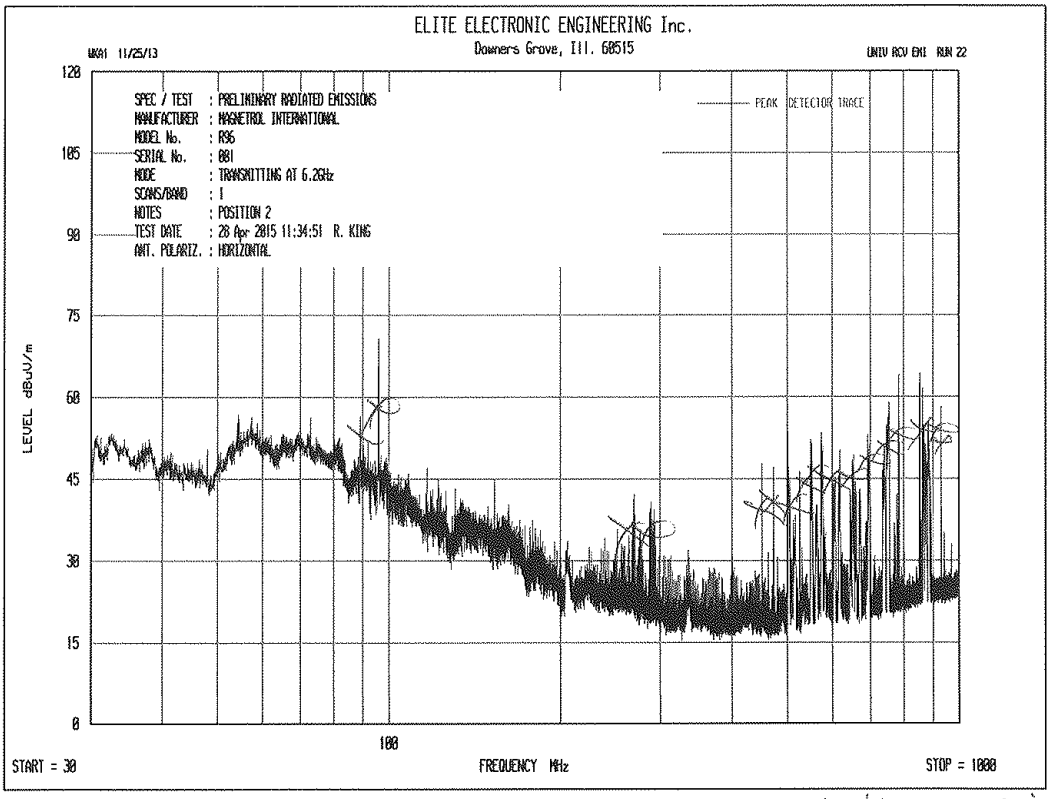
all emissions measured were attributed to the ambient environment.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EX1 RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING @ 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 08:27:15 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

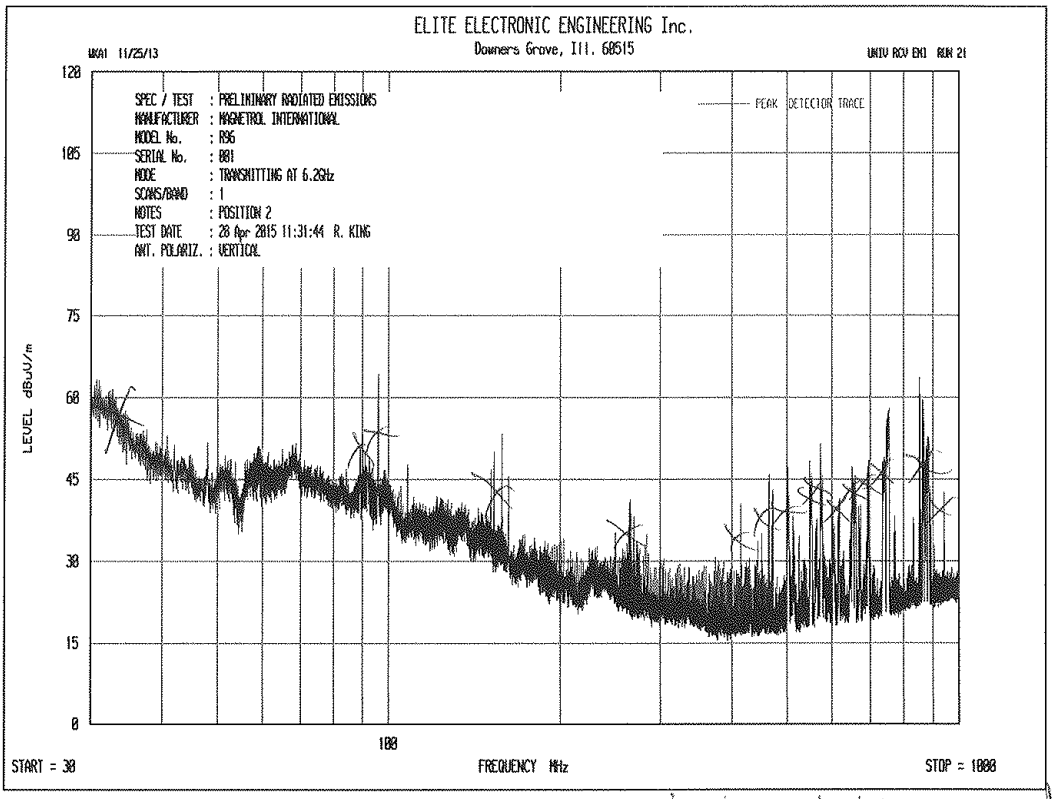

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
HKA1 11/25/13
UNIV RCV EH1 RUN 7
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING @ 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 09:28:49 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV ACV EXT RUN 2
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 10:54:28 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
128
105
90
75
60
45
30
15
0
START = 26000.000002
FREQUENCY MHz
STOP = 40000

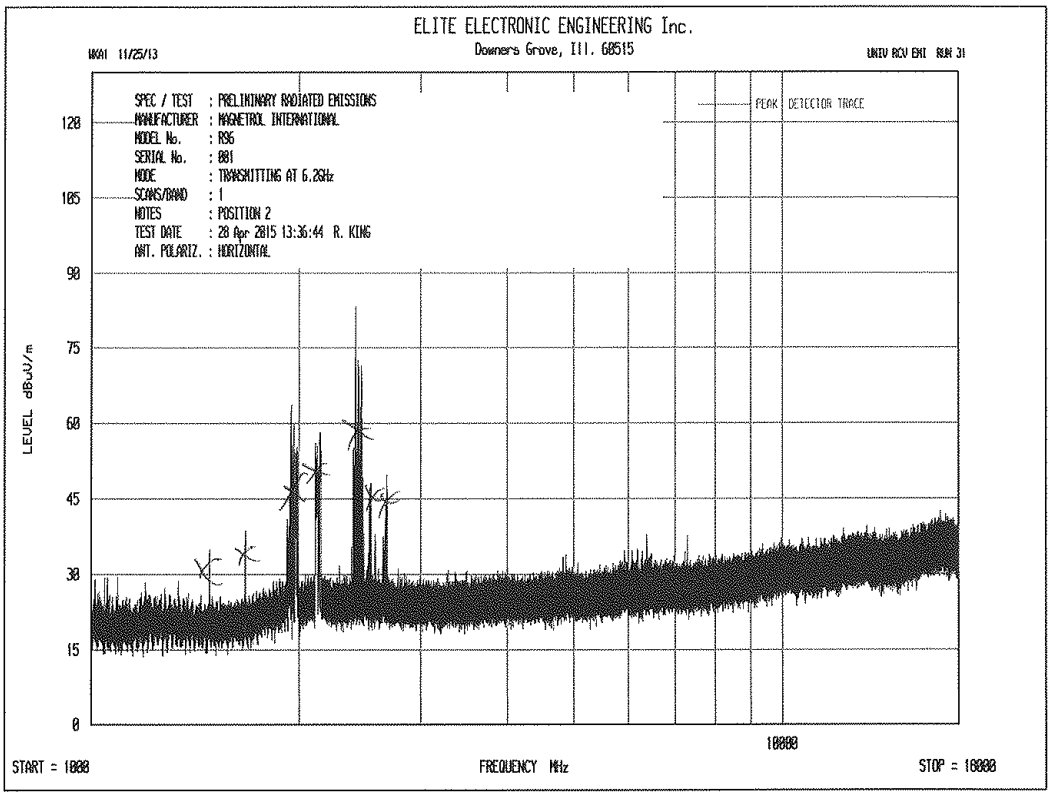

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 28
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 18:58:26 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000



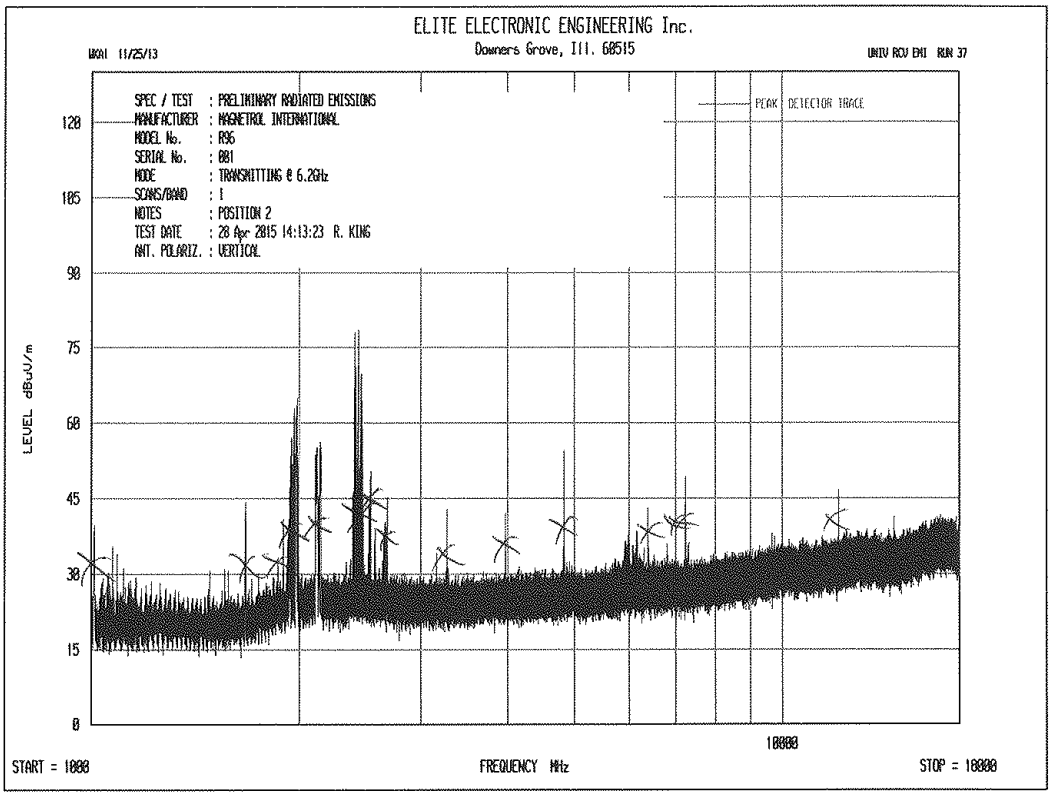
All emissions measured are attributed to the ambient environment.



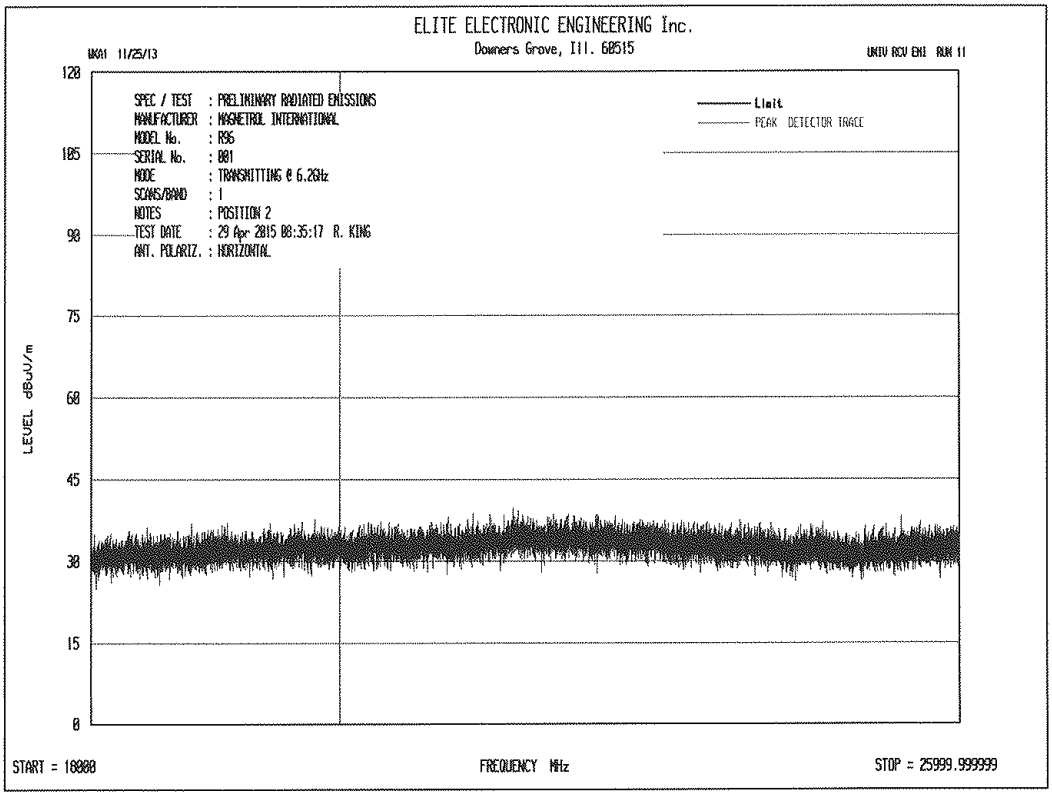
All emissions measured are attributed to the ambient environment.

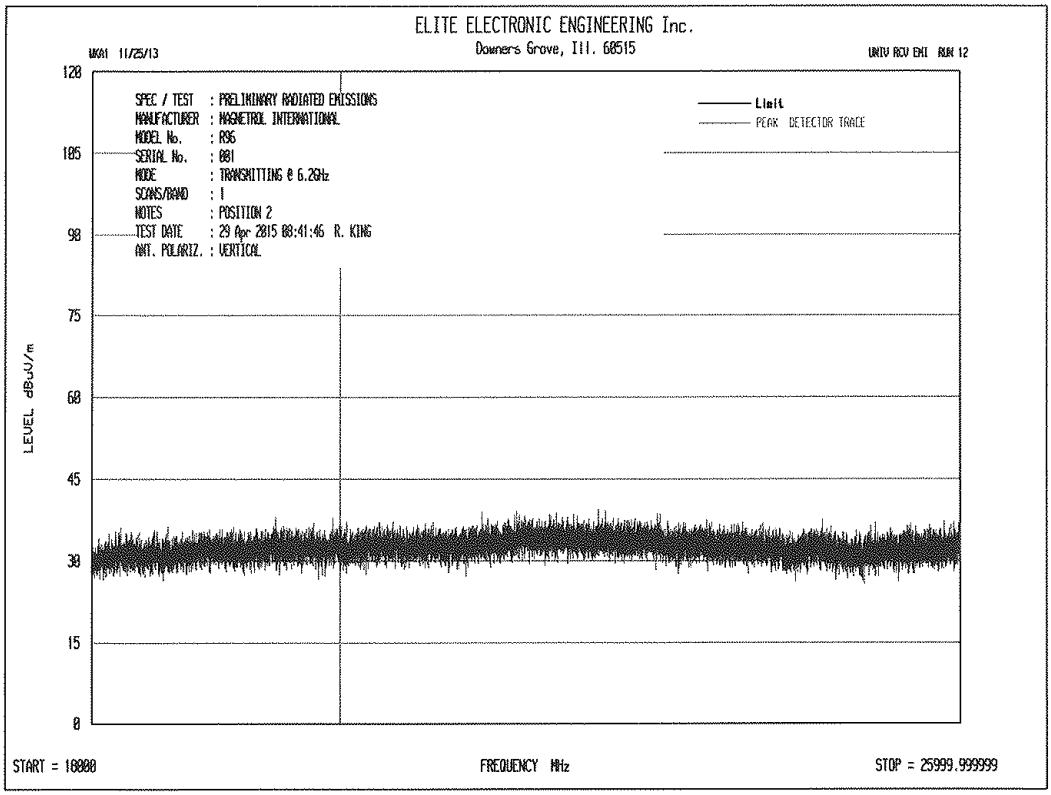


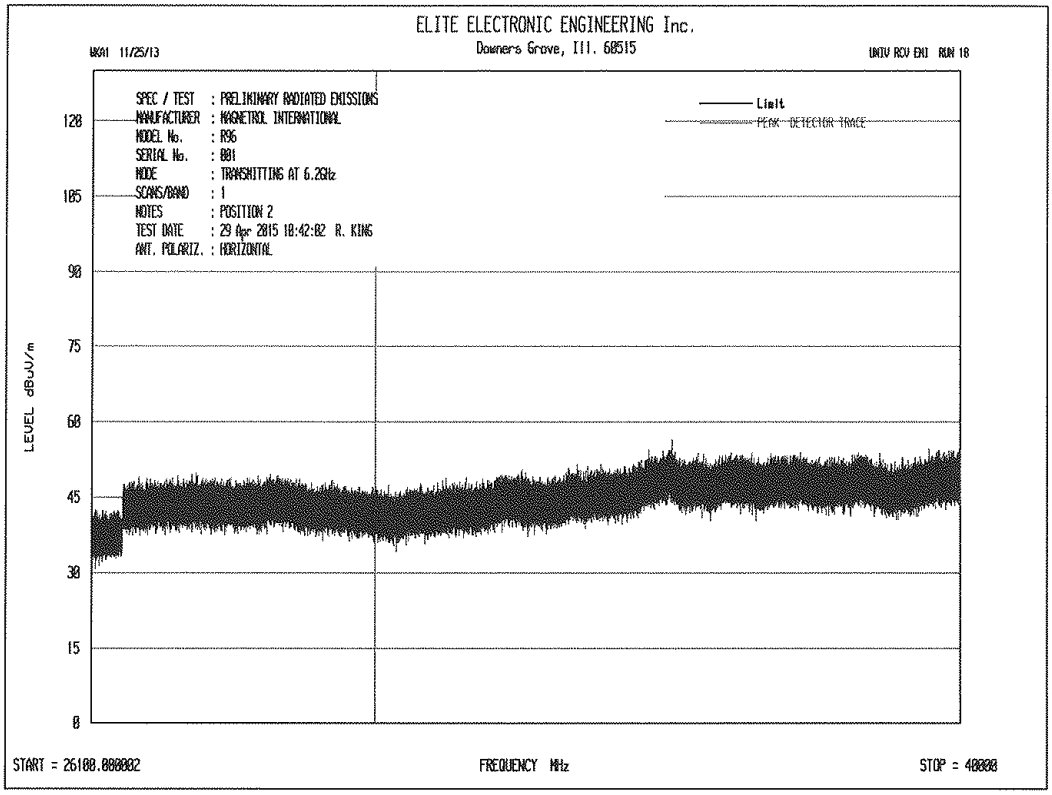
All emissions measured were attributed to the ambient environment.

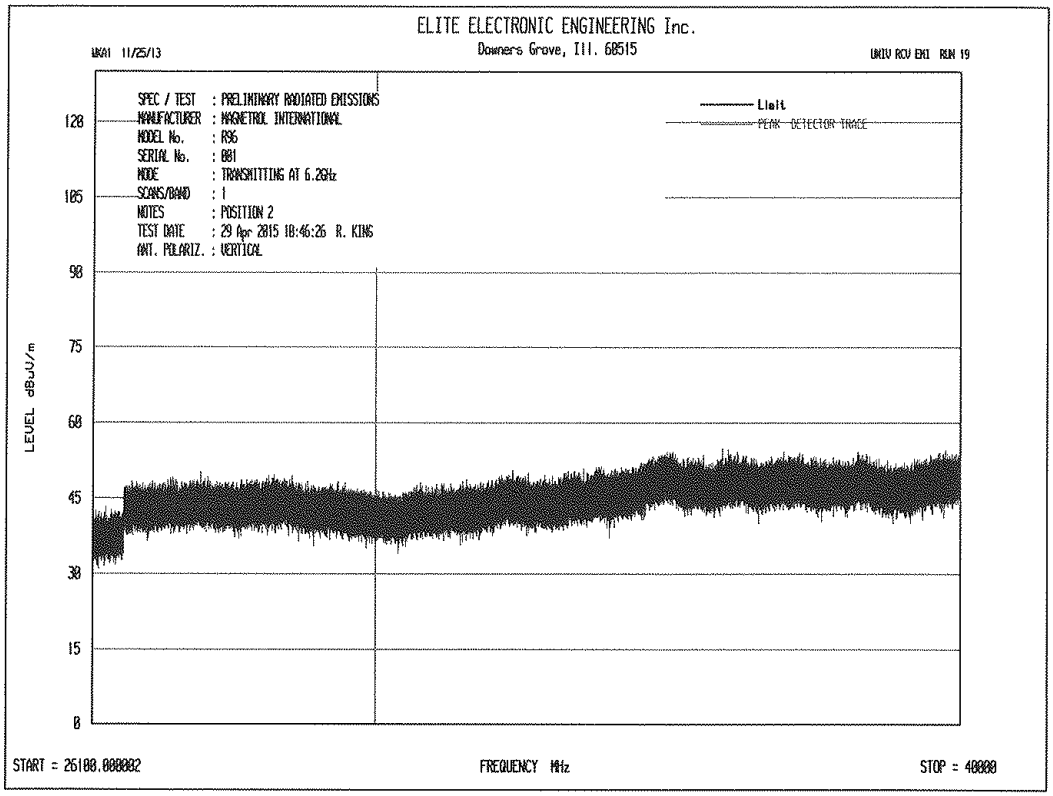


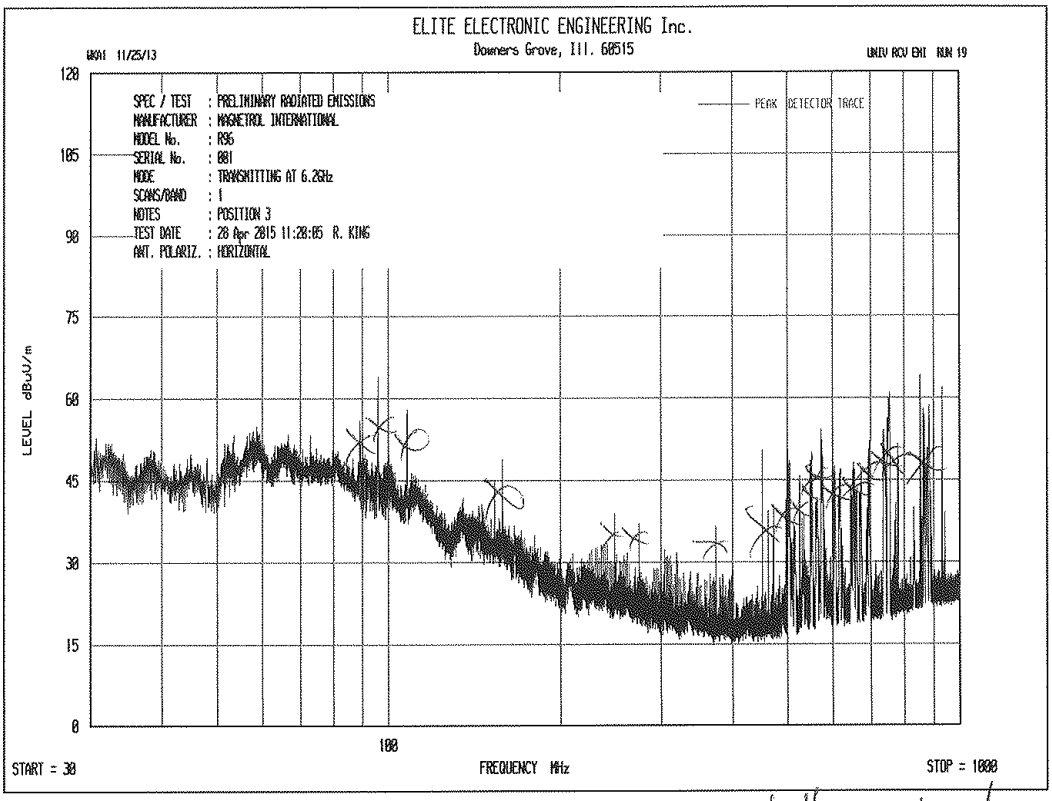
All measured emissions were attributed to the ambient environment.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EN1 RUN 11
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING @ 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 08:35:17 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

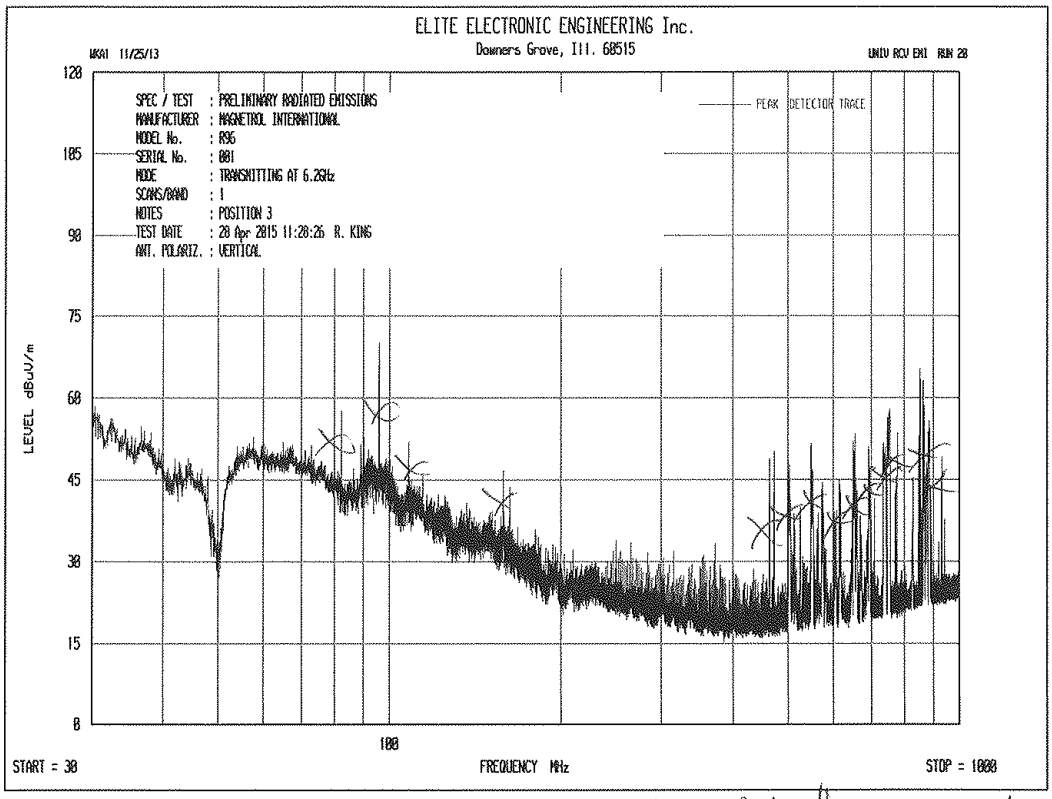

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UKA1 11/25/13
UNIV RCV EXT RUN 12
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : A96
SERIAL No. : 001
MODE : TRANSMITTING @ 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 08:41:46 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 18
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 10:42:02 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

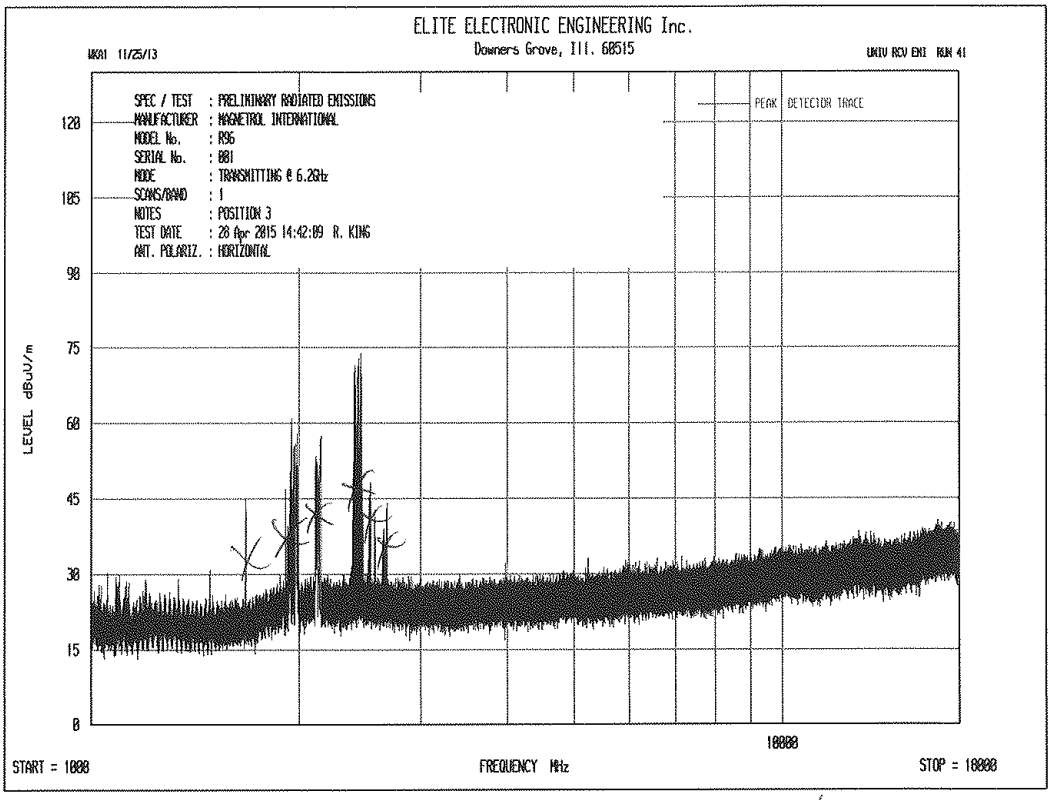

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UKA1 11/25/13
UNIV RCV EXT RSN 19
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : RS6
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 10:46:26 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26000.000002
FREQUENCY MHz
STOP = 40000



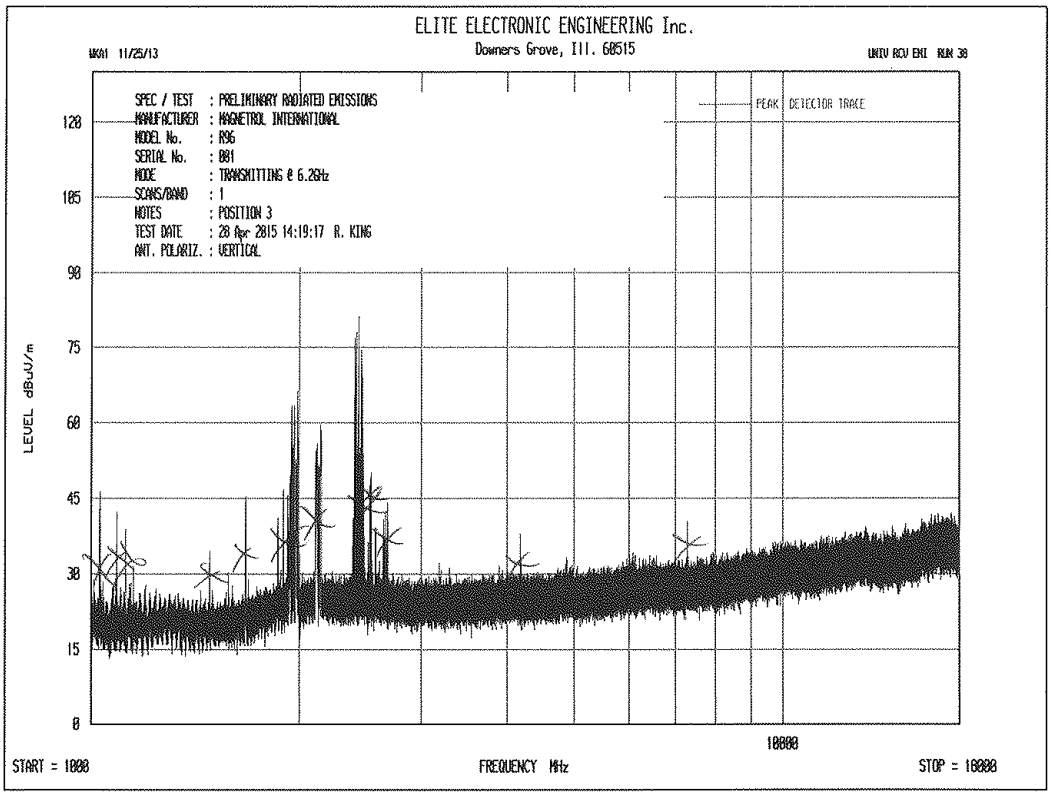
All measured emissions were attributed to the ambient environment.



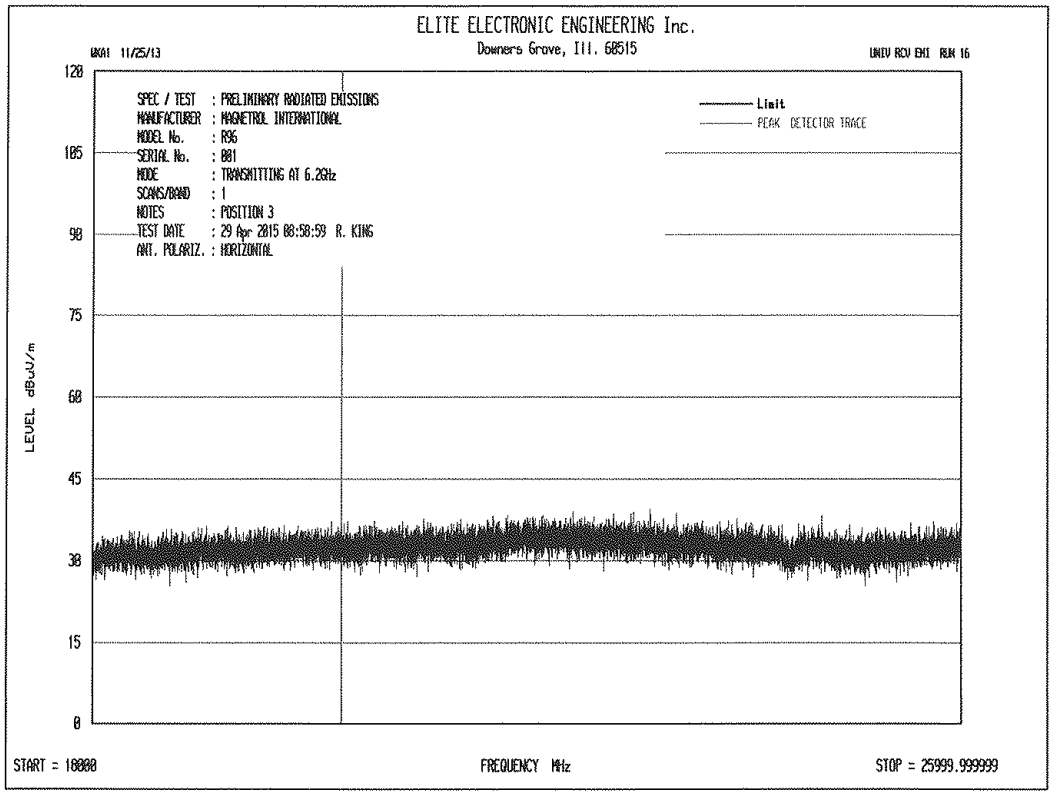
All emissions measured were attributed to the ambient environment.

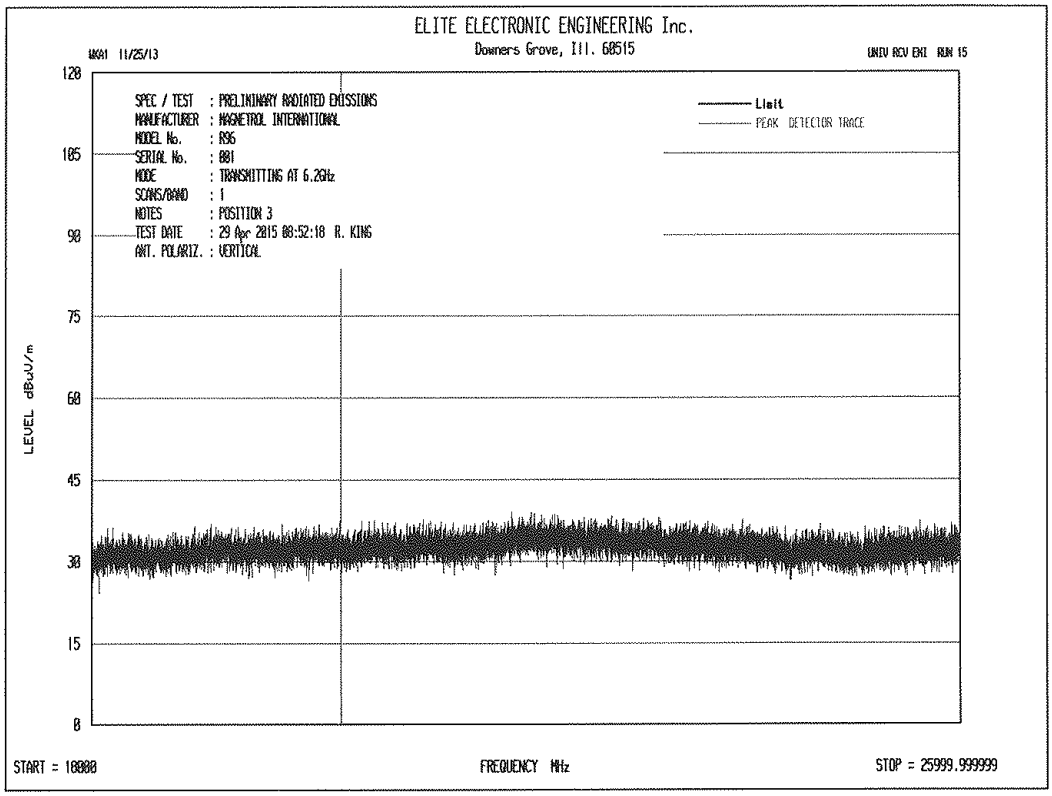


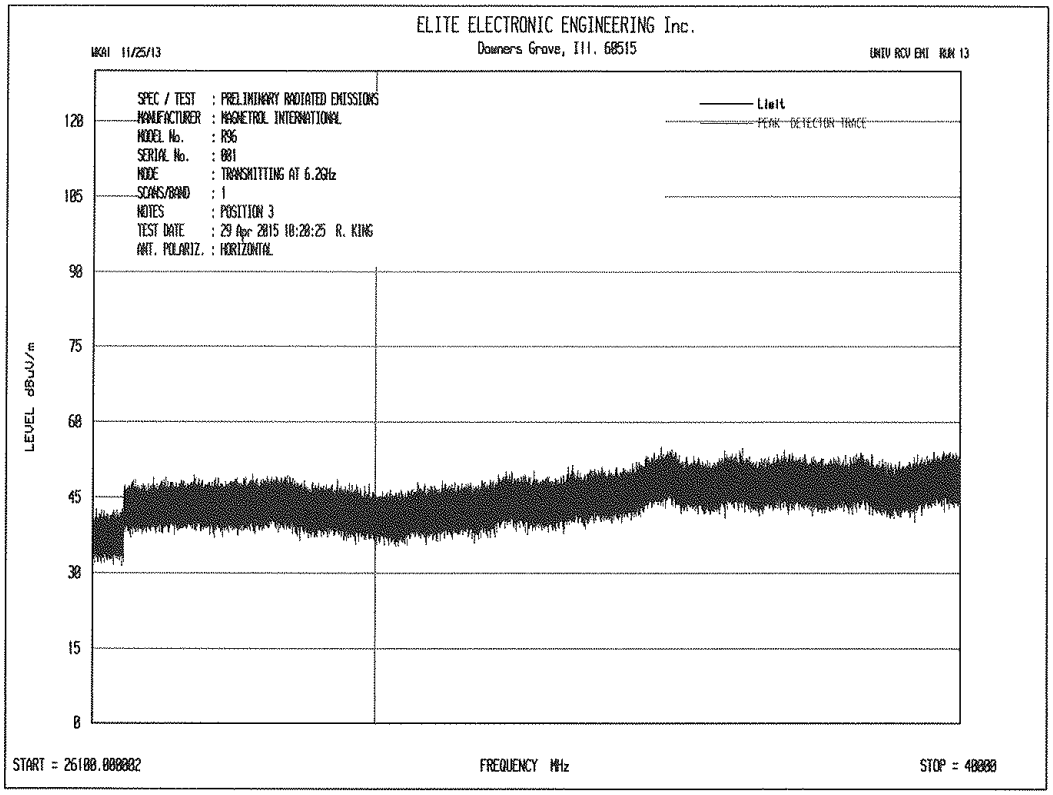
All measured emissions were attributed to the ambient environment.

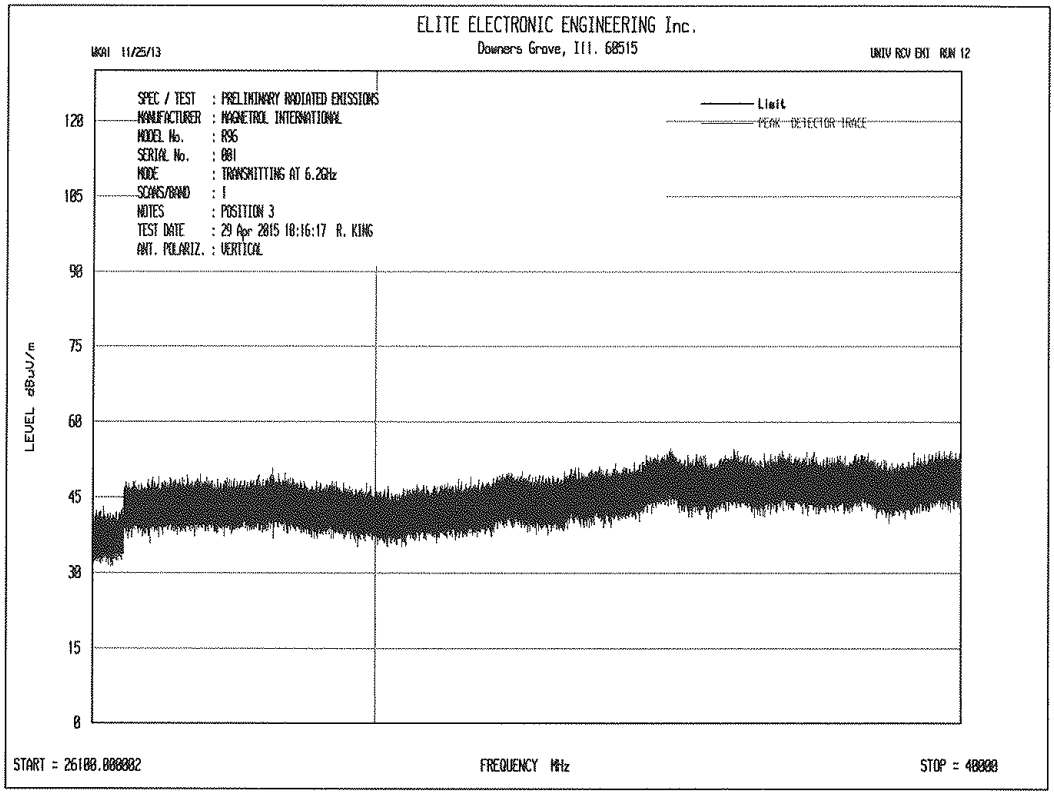


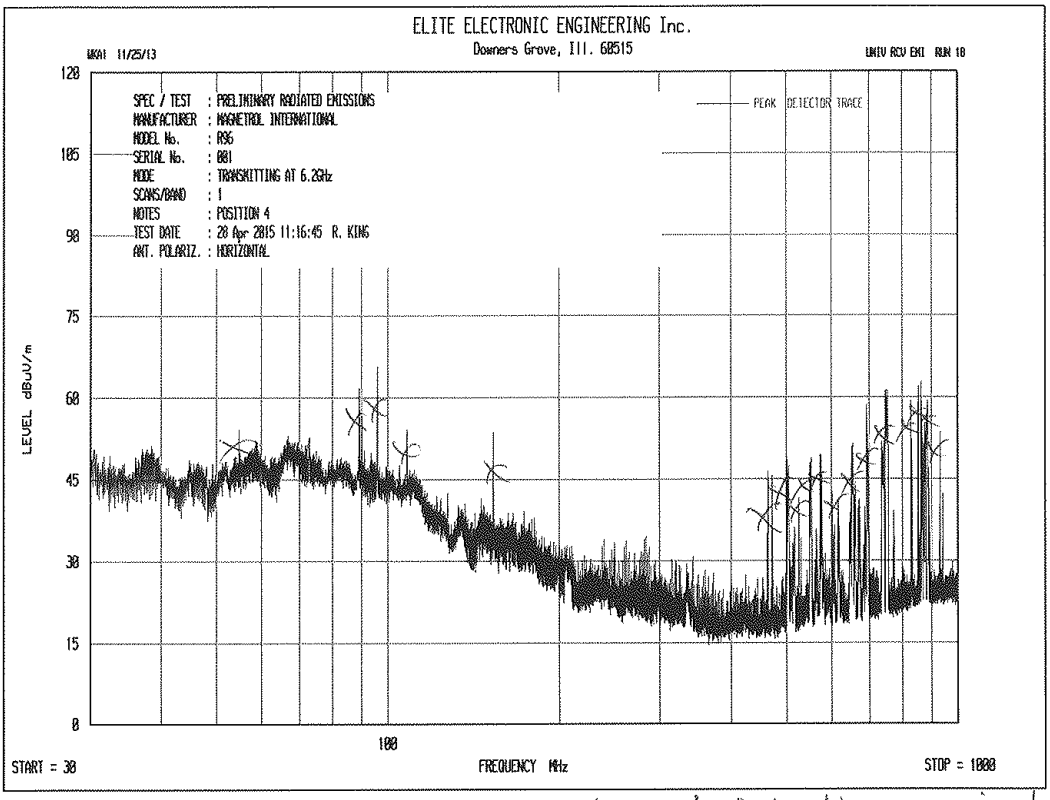
All emissions measured were attributed to the ambient environment.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EXT RUN 16
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 08:58:59 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

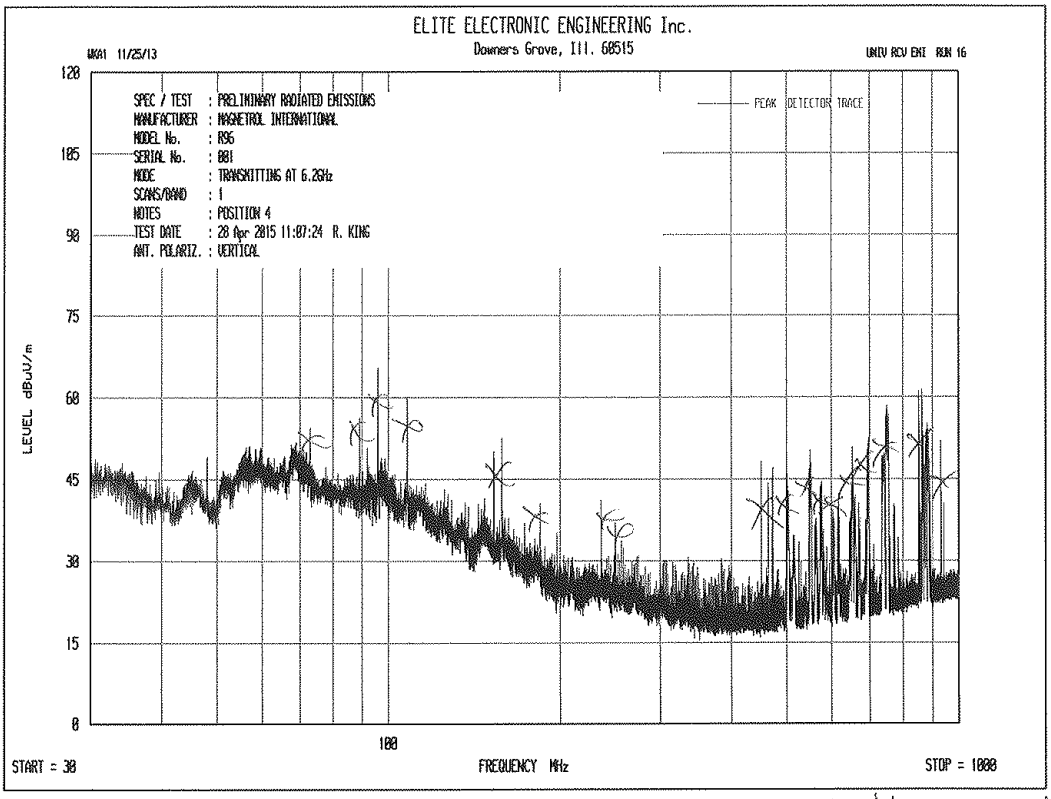

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 15
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : A96
SERIAL No. : 881
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 08:52:18 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EXT RUN 13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 10:20:25 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTION TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26000.000002
FREQUENCY MHz
STOP = 40000

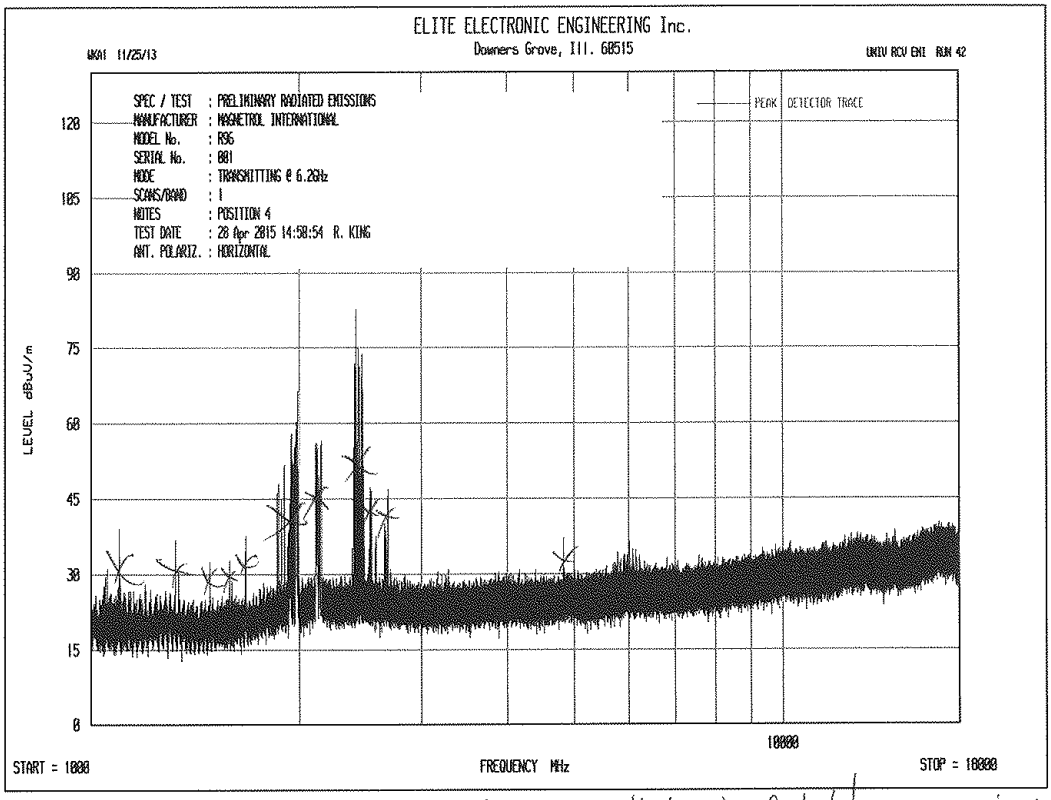

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 68515
UKAI 11/25/13
UNIV RCV EXT RUN 12
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : 705
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 10:16:17 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26000.000000
FREQUENCY MHz
STOP = 40000



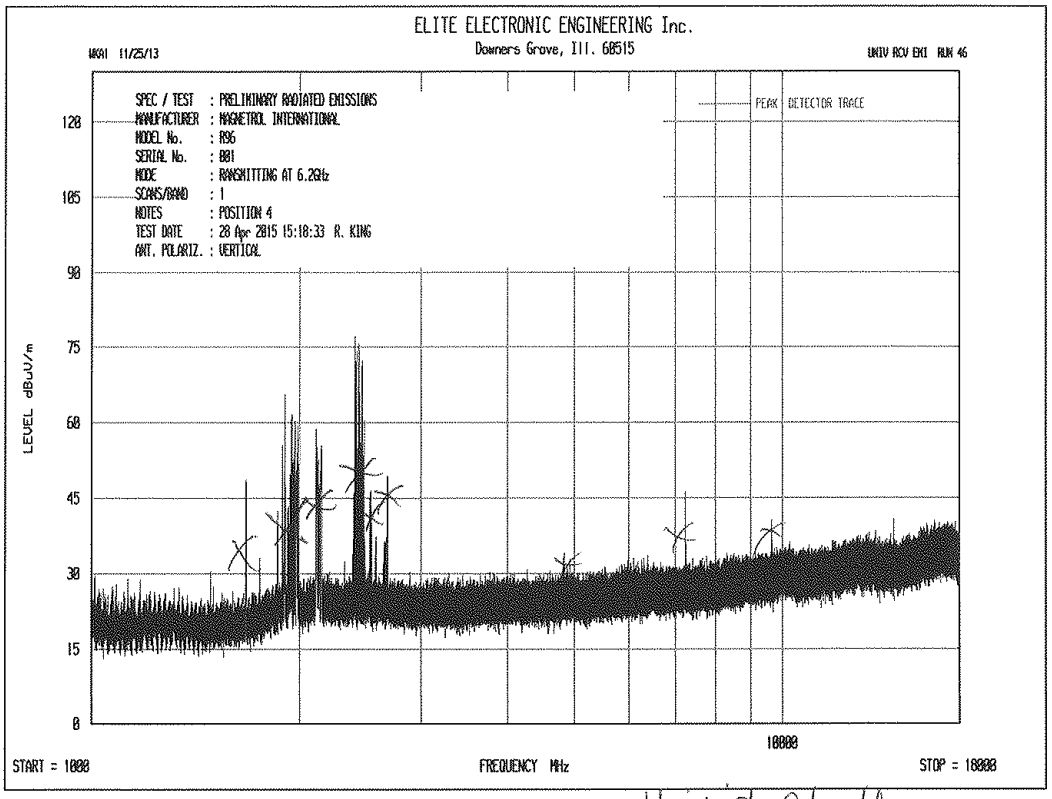
All emissions measured were attributed to the Ambient environment.



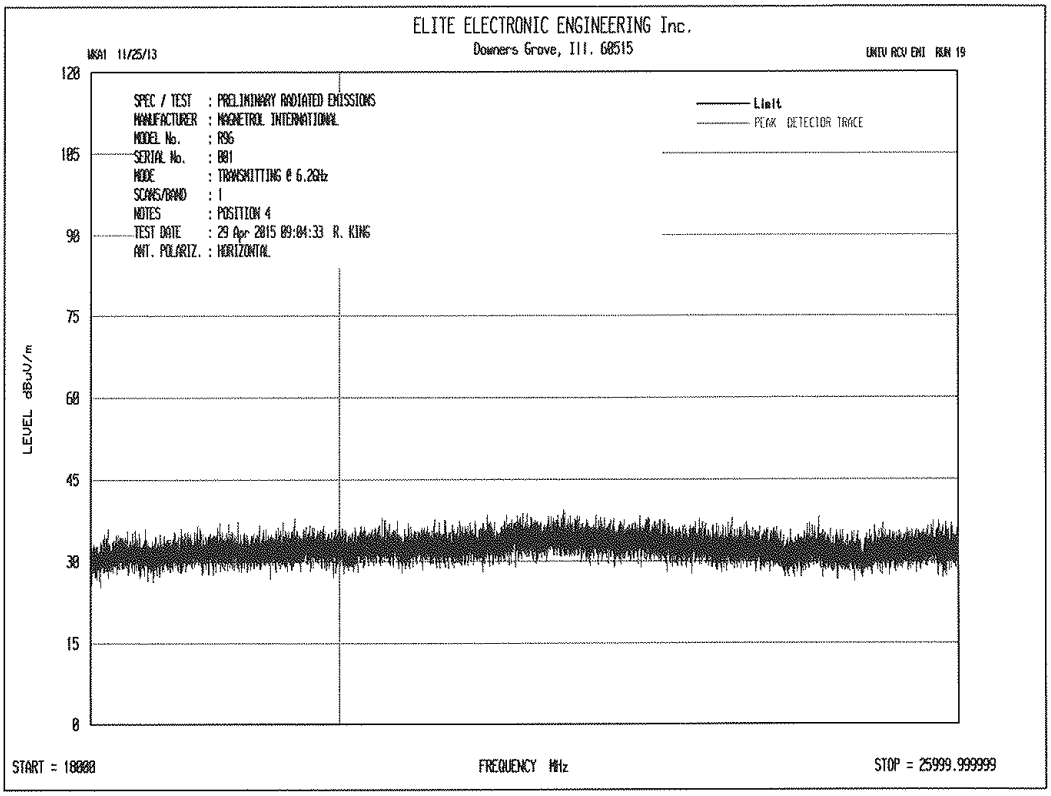
All emissions measured were attributed to the ambient environment.

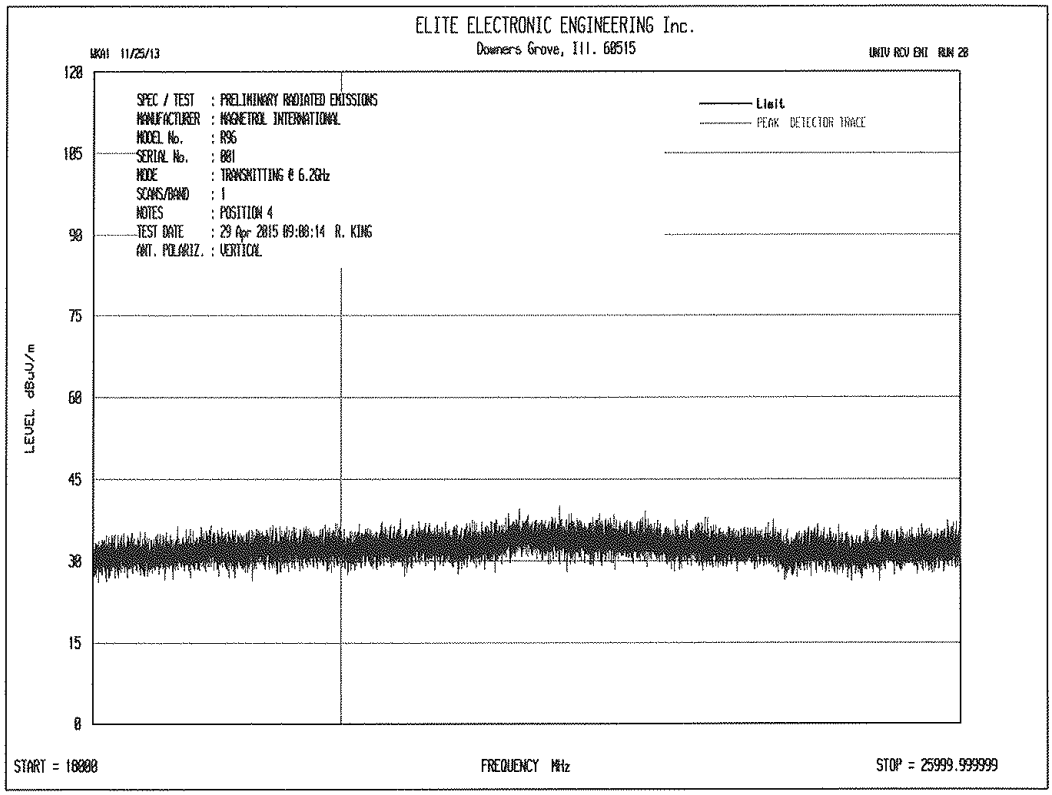


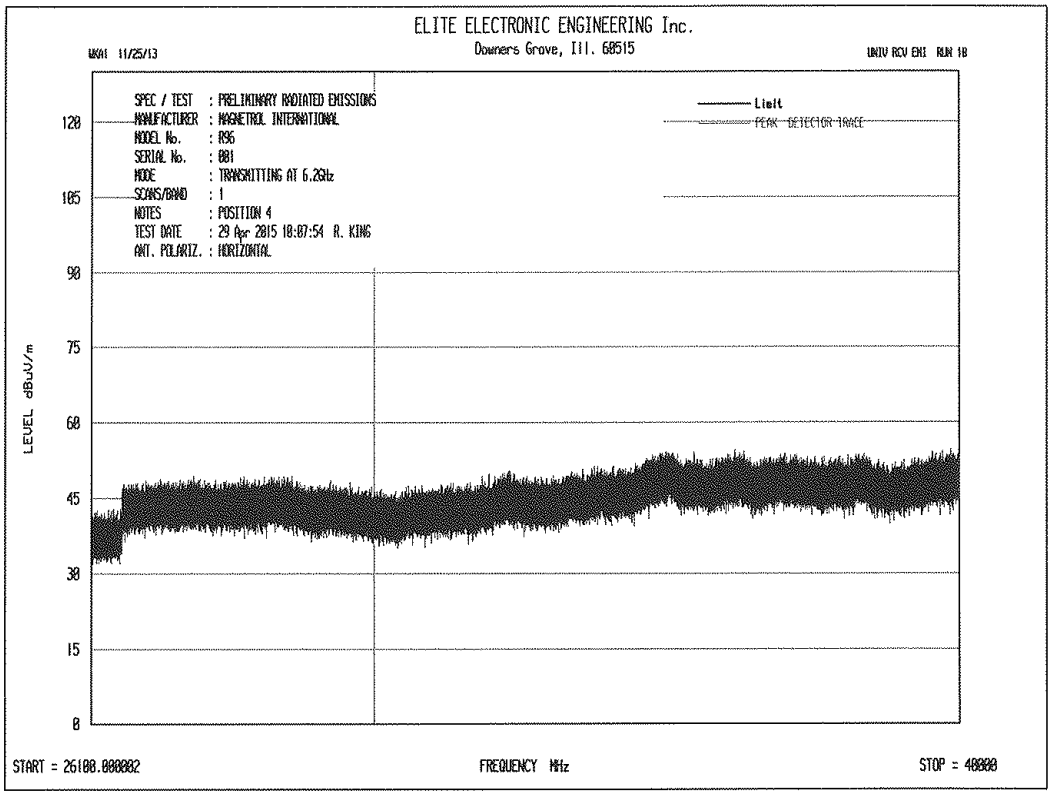
All emissions measured were attributed to the ambient environment.

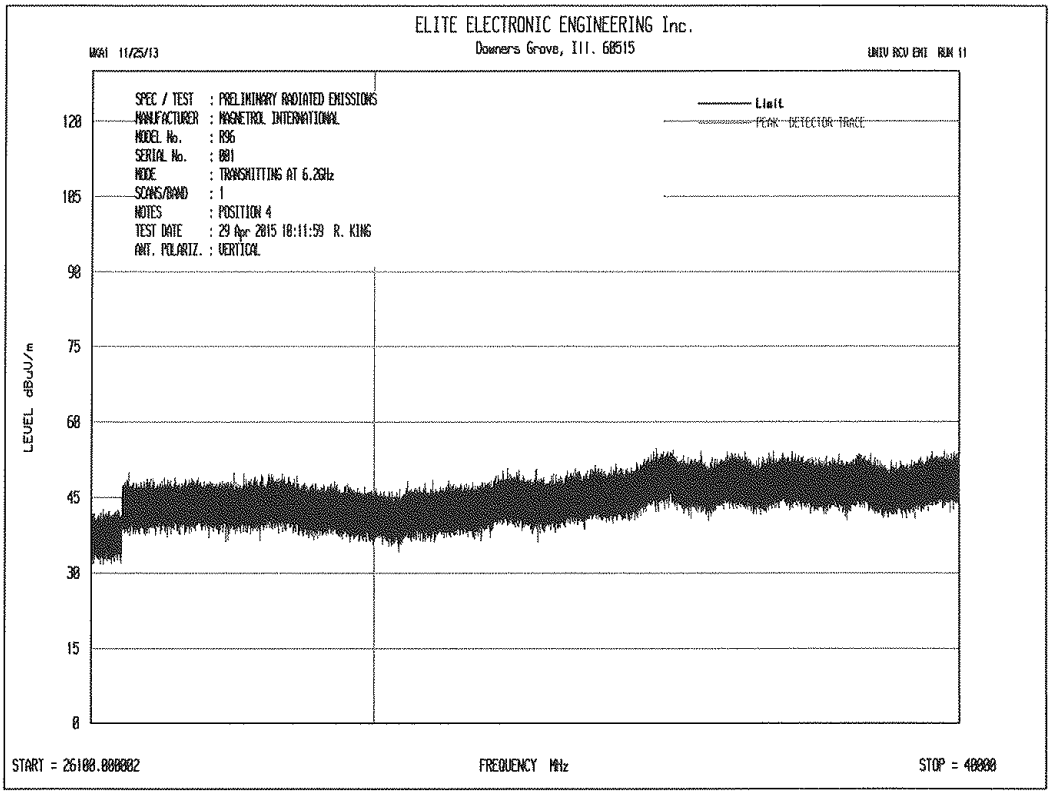


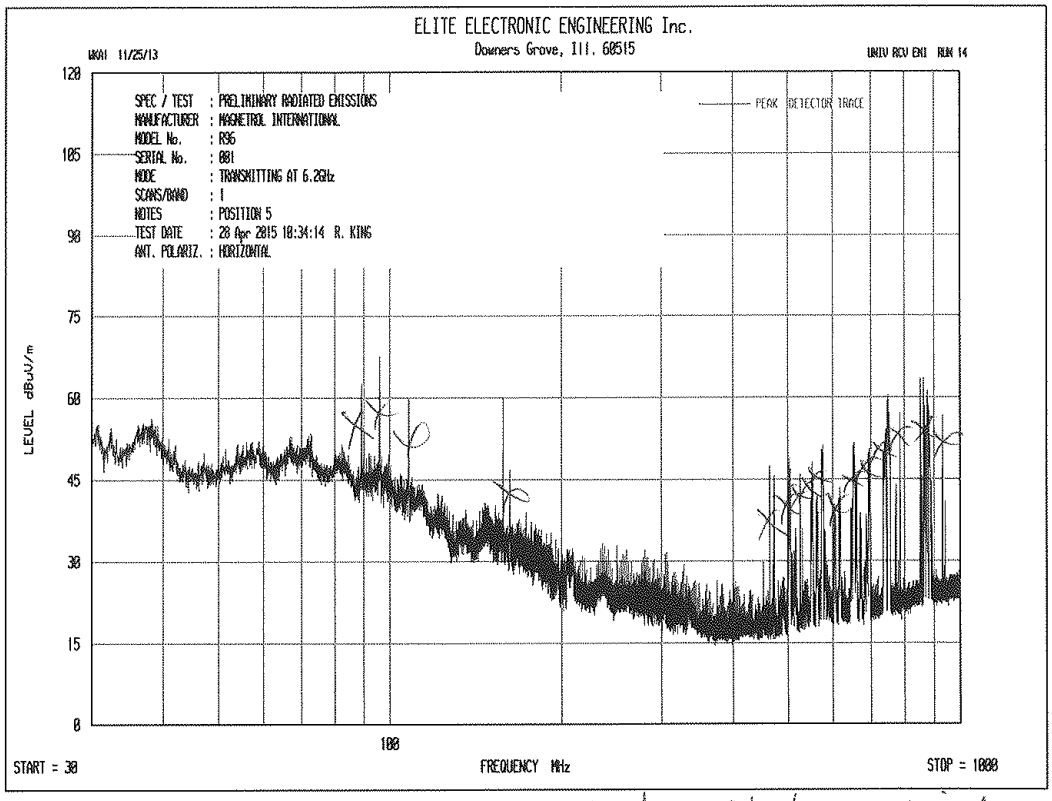
All emissions measured were attributed to the ambient environment.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
HSAI 11/25/13
UNIV ACU EXT RUN 19
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : RSG
SERIAL No. : 001
MODE : TRANSMITTING @ 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 09:04:33 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

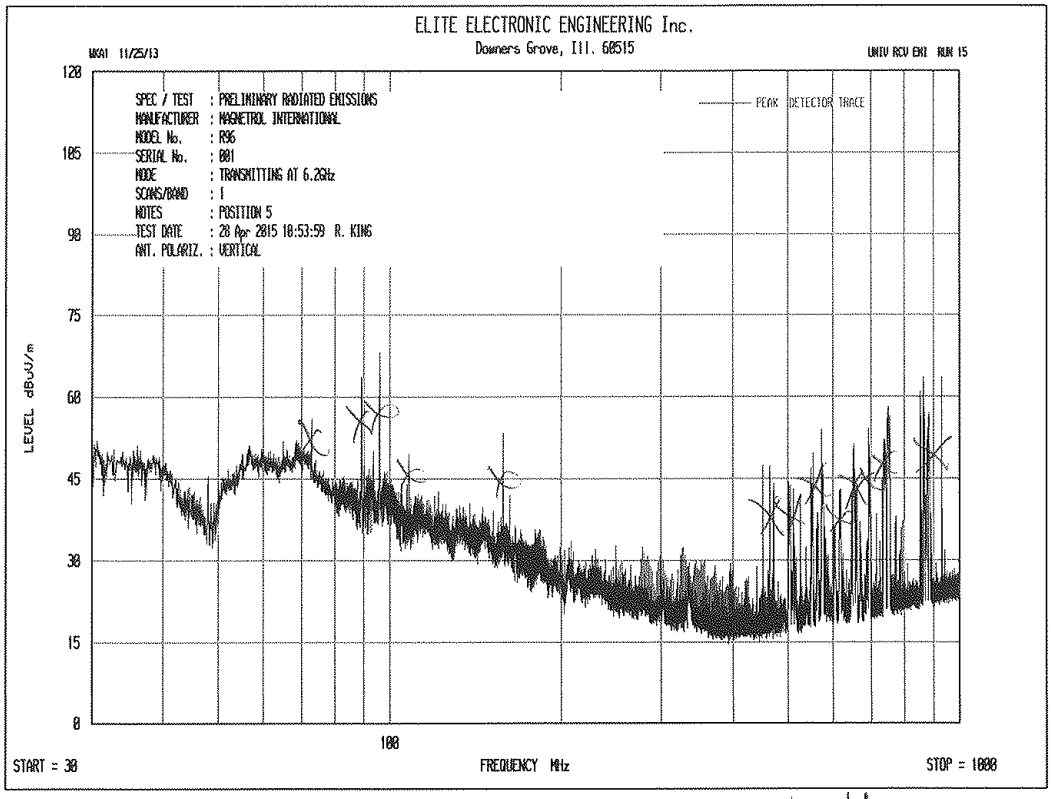

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
HKA1 11/25/13
UNIV RCV EXT RUN 28
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING @ 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 09:08:14 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EX1 RUN 1B
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 10:07:54 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26100.000002
FREQUENCY MHz
STOP = 40000

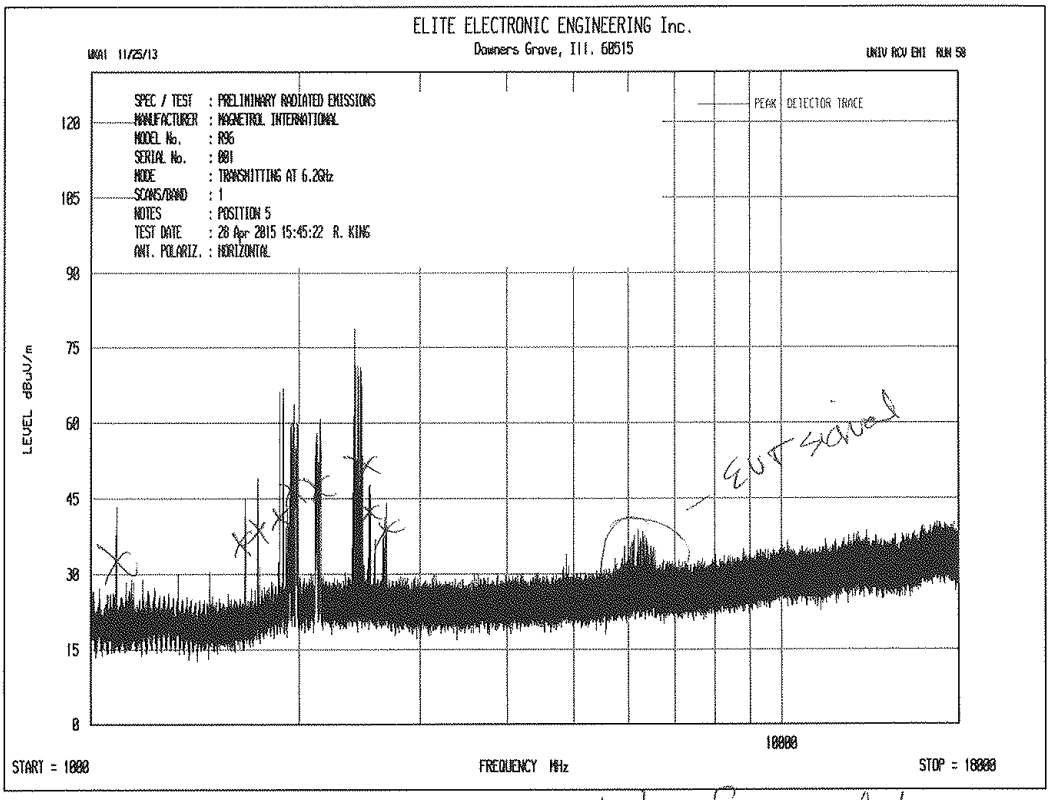

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 11
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 10:11:59 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26000.000002
FREQUENCY MHz
STOP = 40000



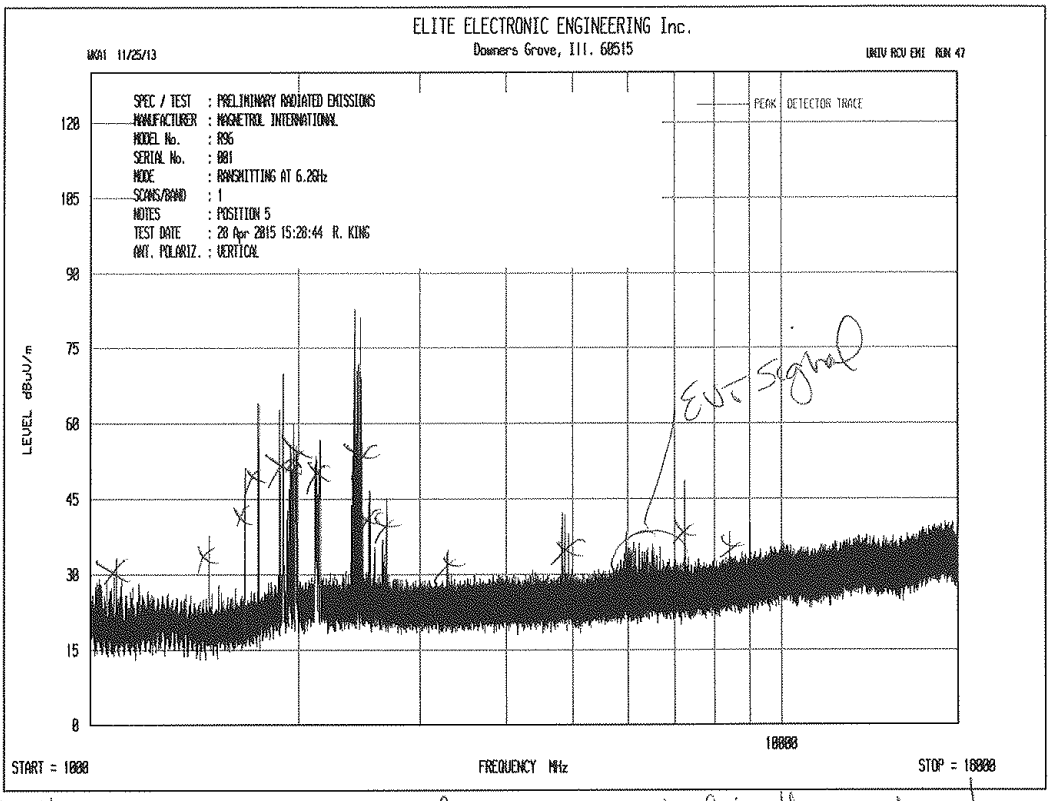
All emissions measured were attributed to the ambient environment.



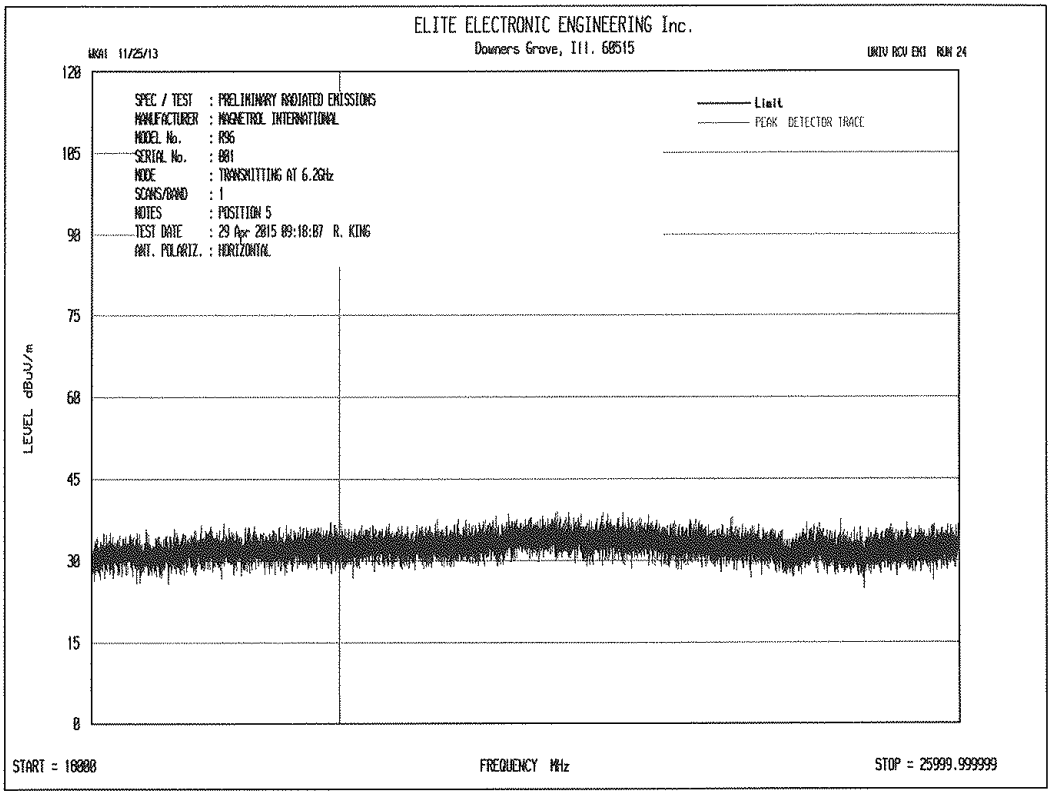
All emissions measured were attributed to the ambient environment.

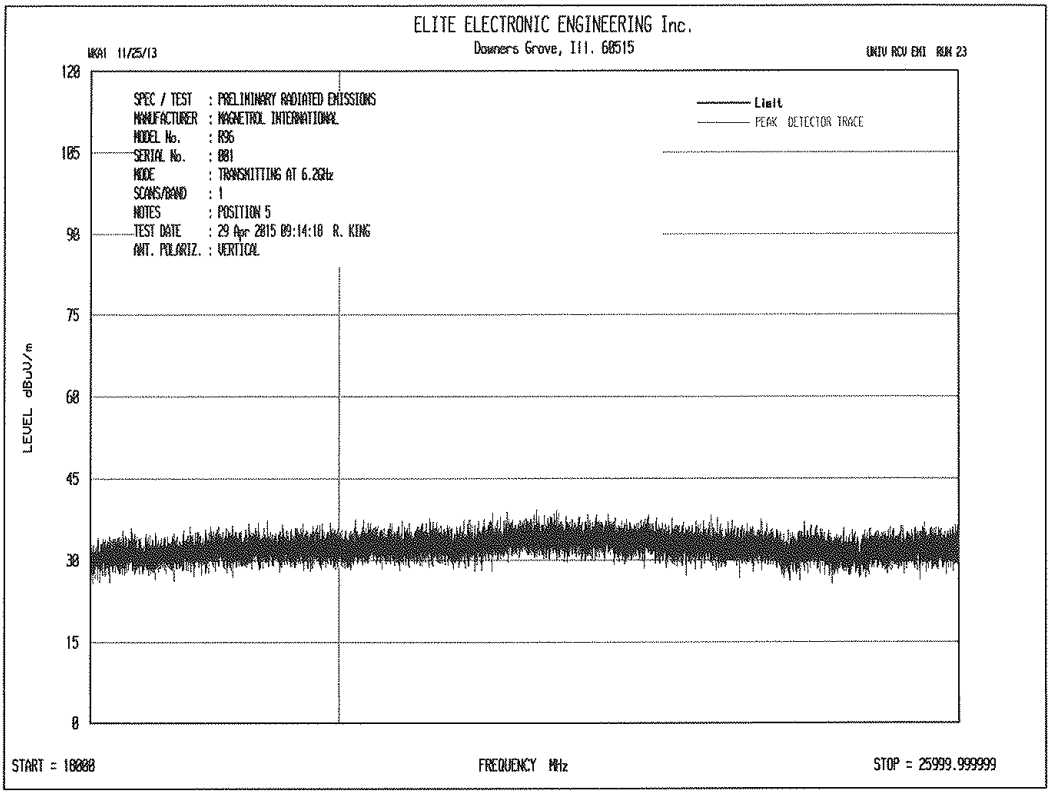


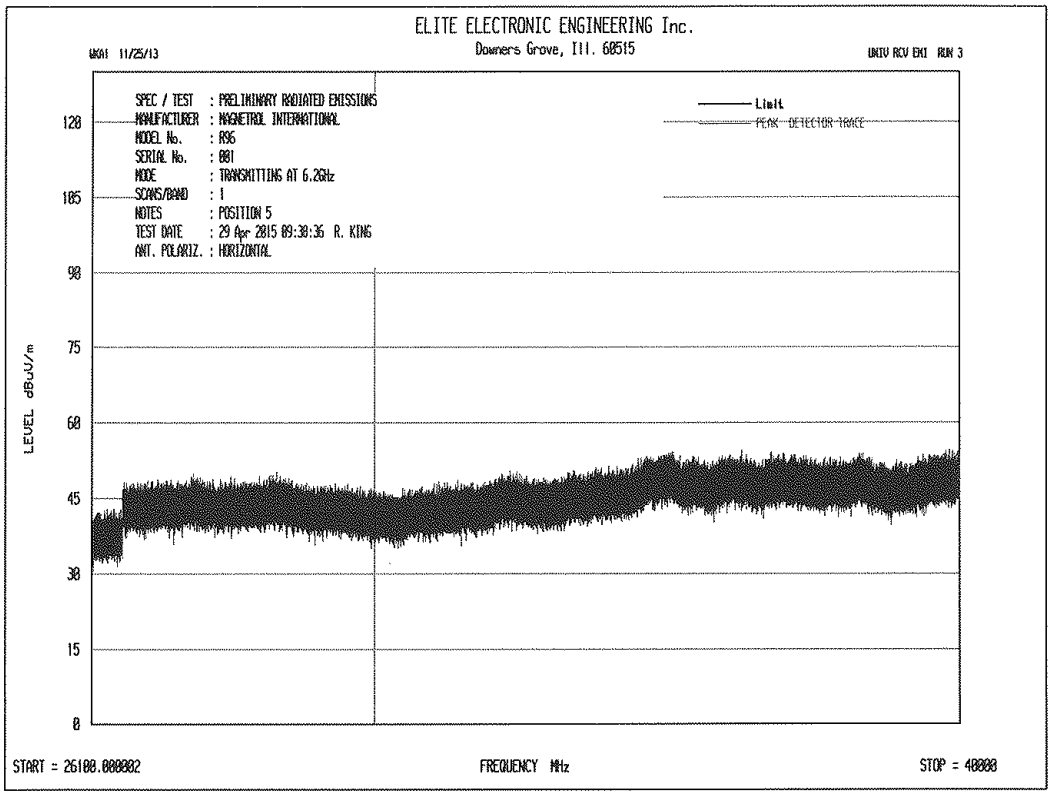
All emissions measured except the fundamental were attributed to the ambient environment.

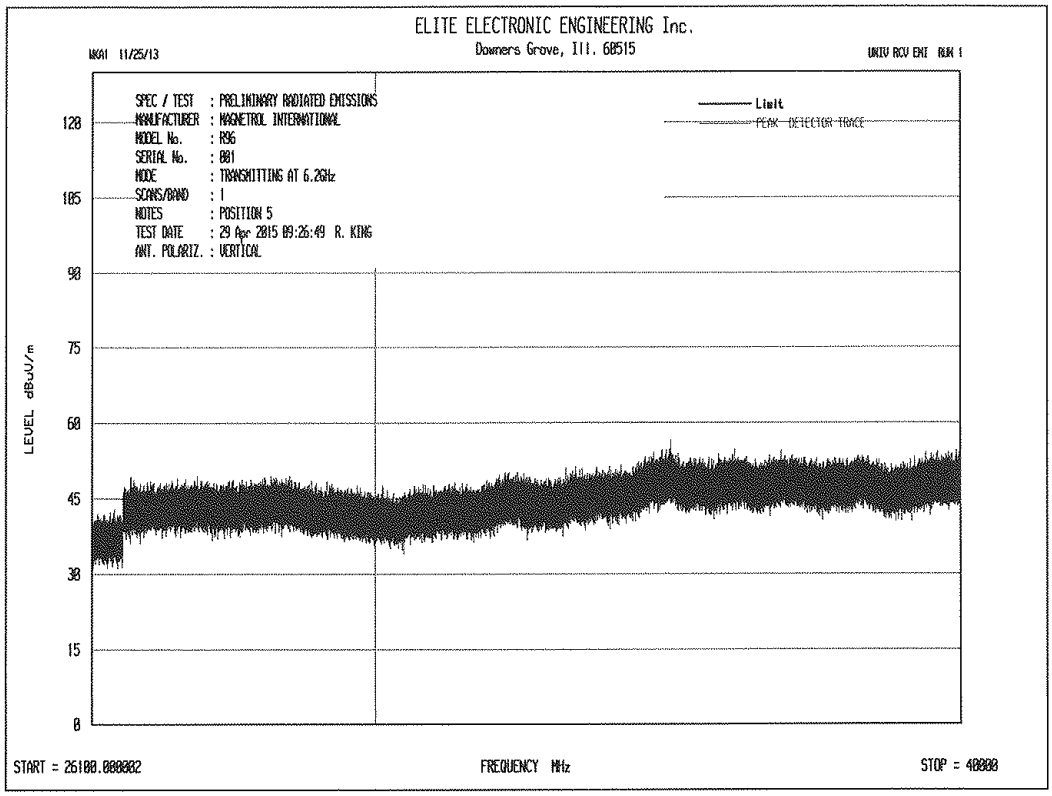


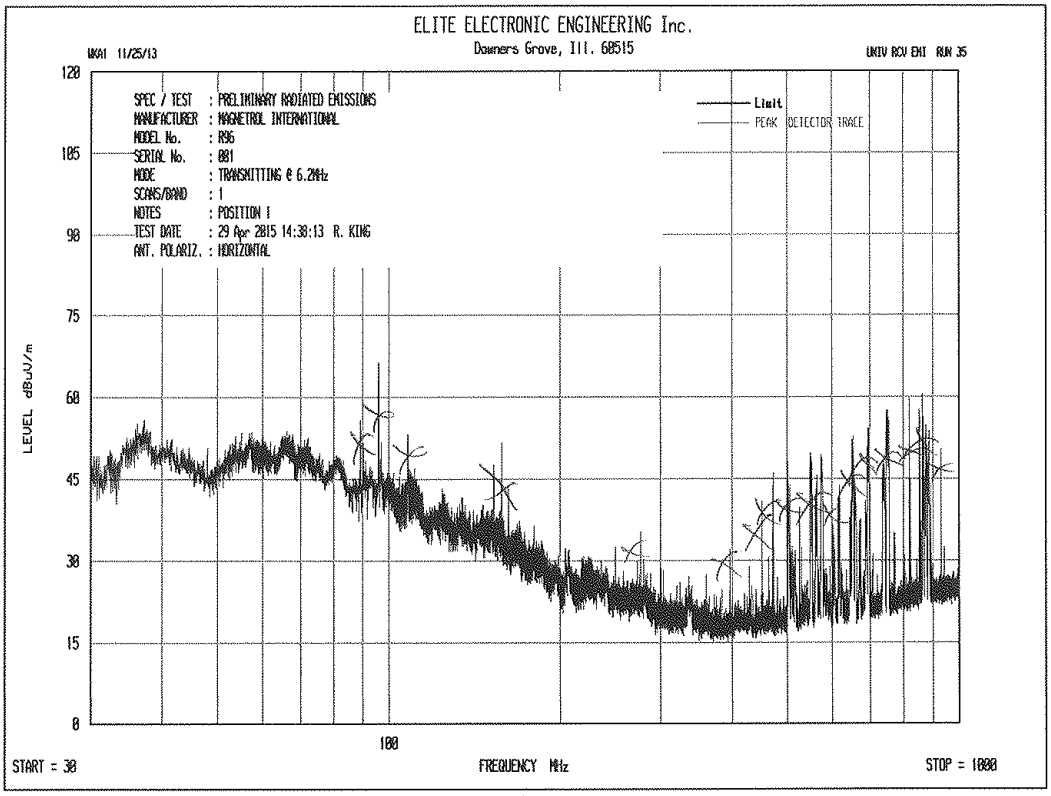
All emissions measured were attributed to the ambient environment.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UKIV RCV EXT RUN 24
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:18:07 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999

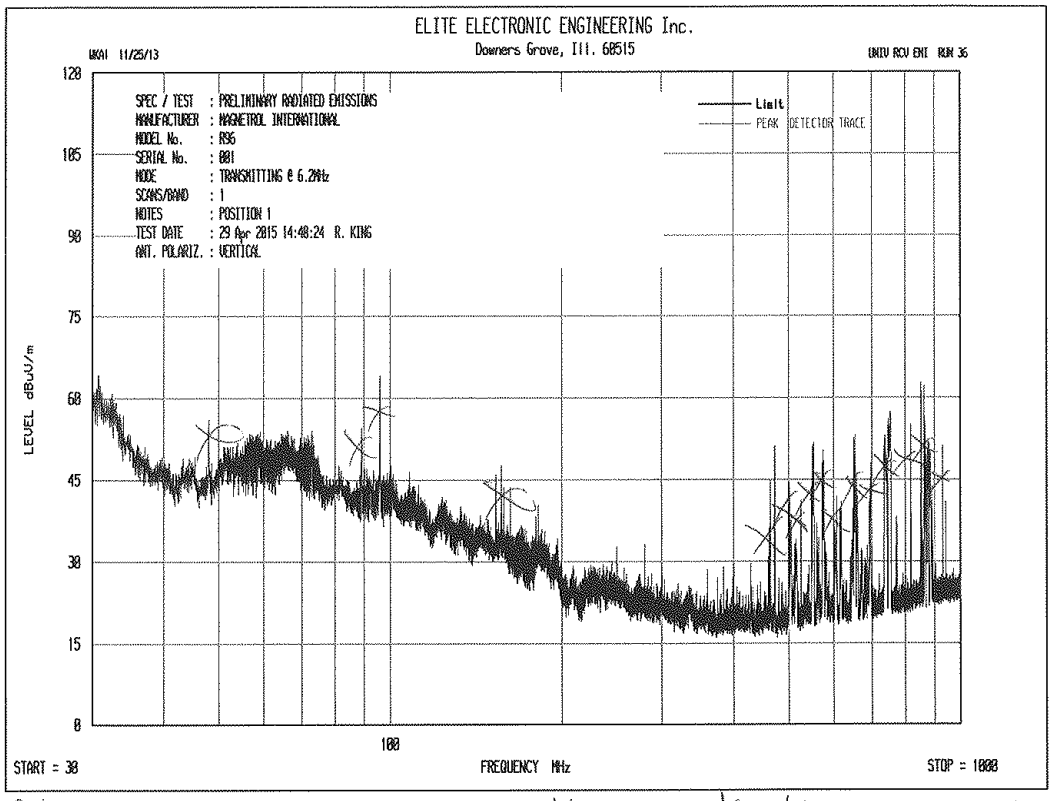

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EXT RUN 23
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:14:18 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25999.999999


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UKAI 11/25/13
UNIV RCV EXT RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:38:36 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
128
105
90
75
60
45
30
15
0
START = 26000.000002
FREQUENCY MHz
STOP = 40000

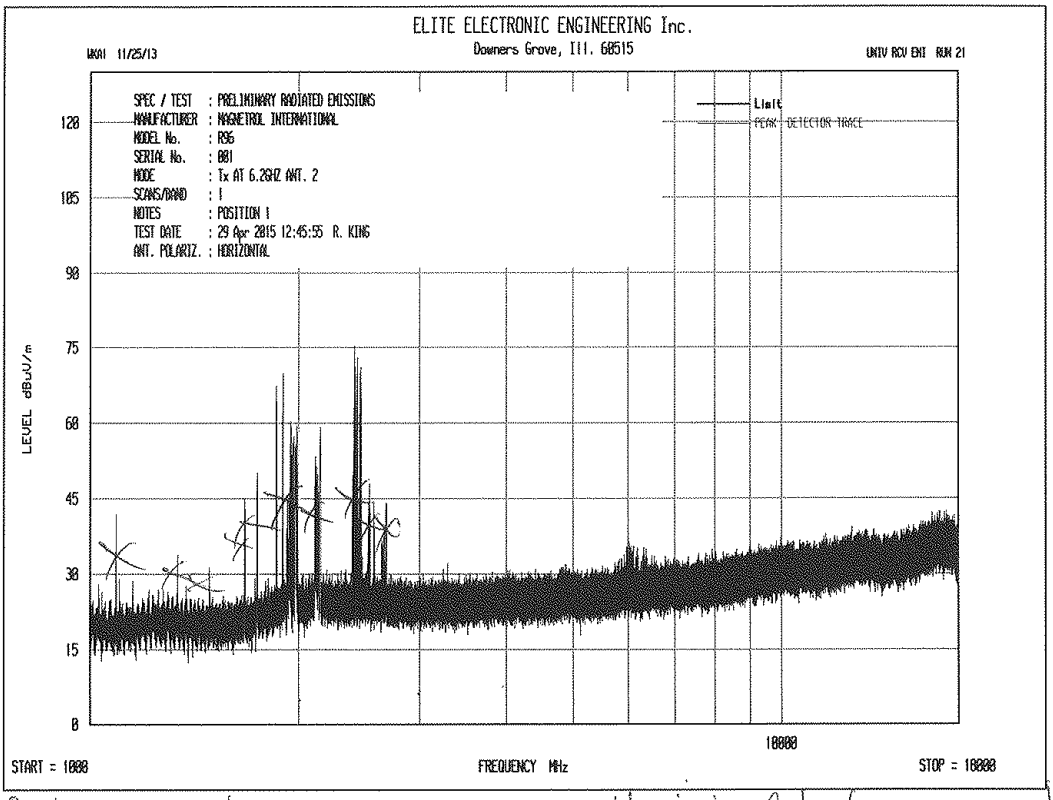

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV ENT RUN 1
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : TRANSMITTING AT 6.2GHz
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 09:26:49 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26000.000000
FREQUENCY MHz
STOP = 40000



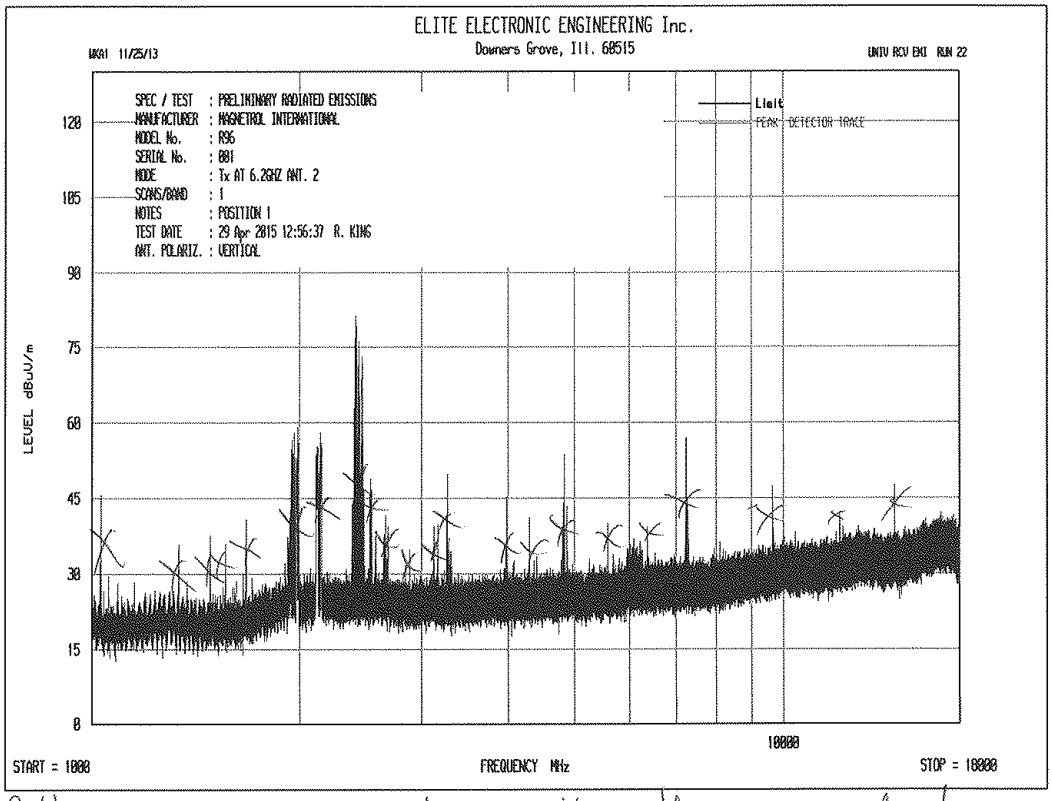
All emissions measured are attributed the the ambient environment.



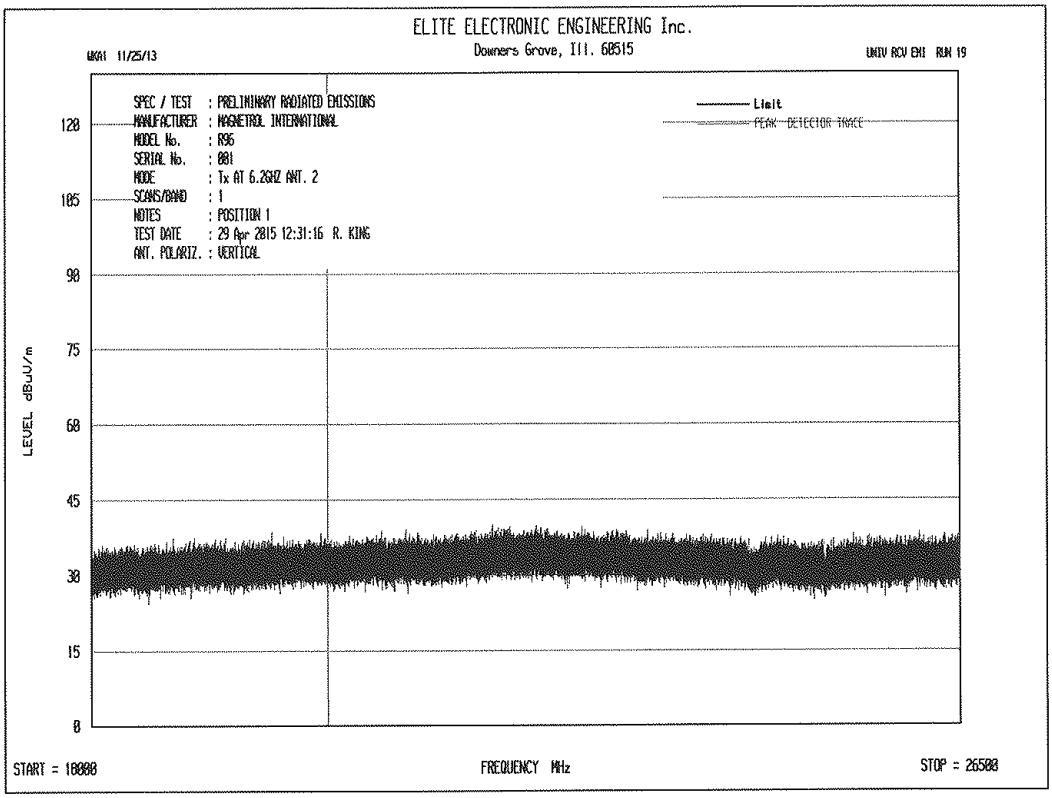
All emissions measured were attributed the the ambient environment.

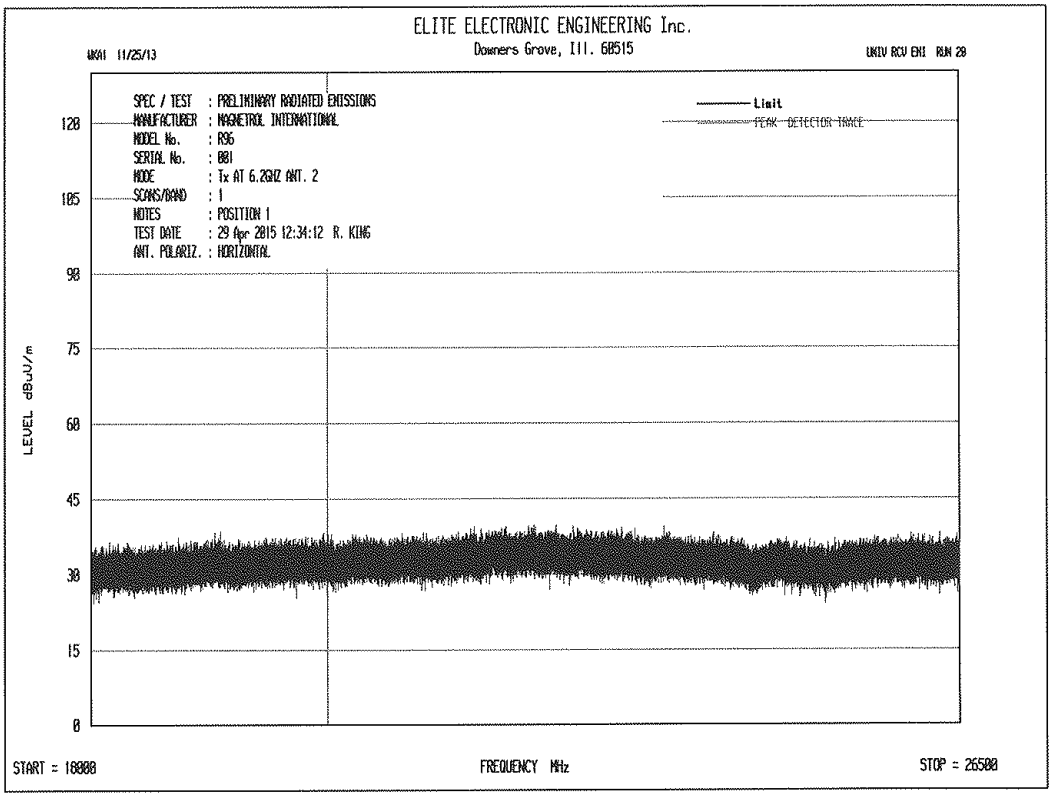


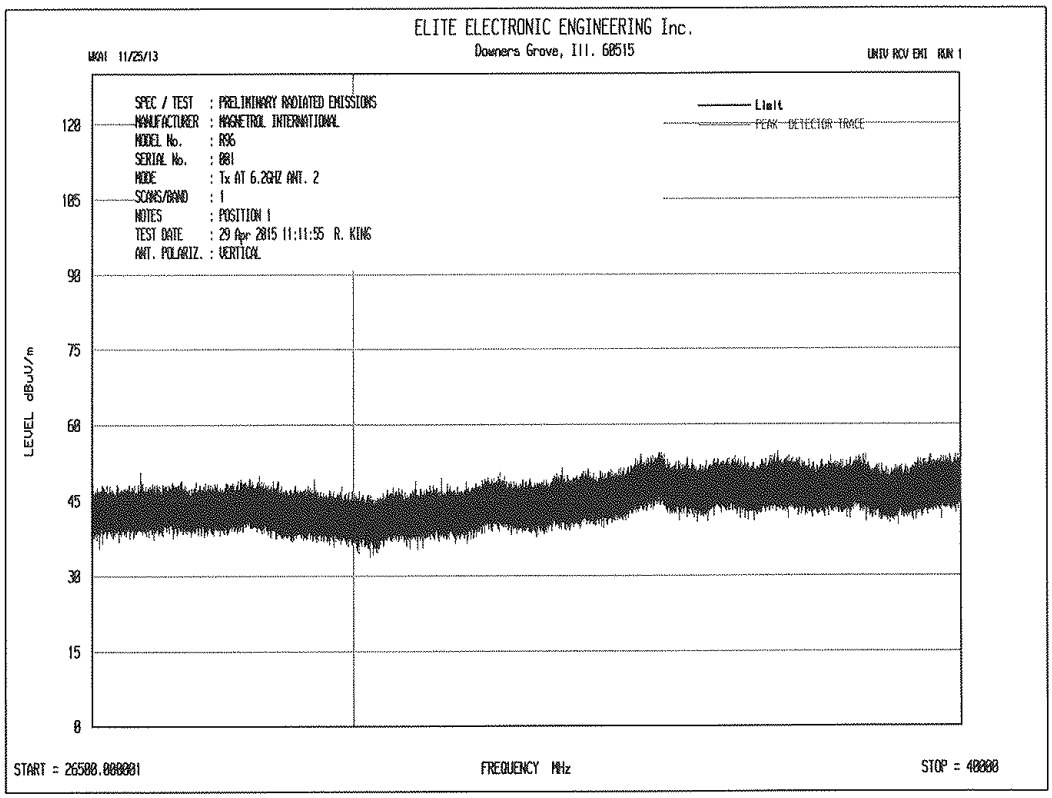
All measured emissions were attributed to the ambient environment.

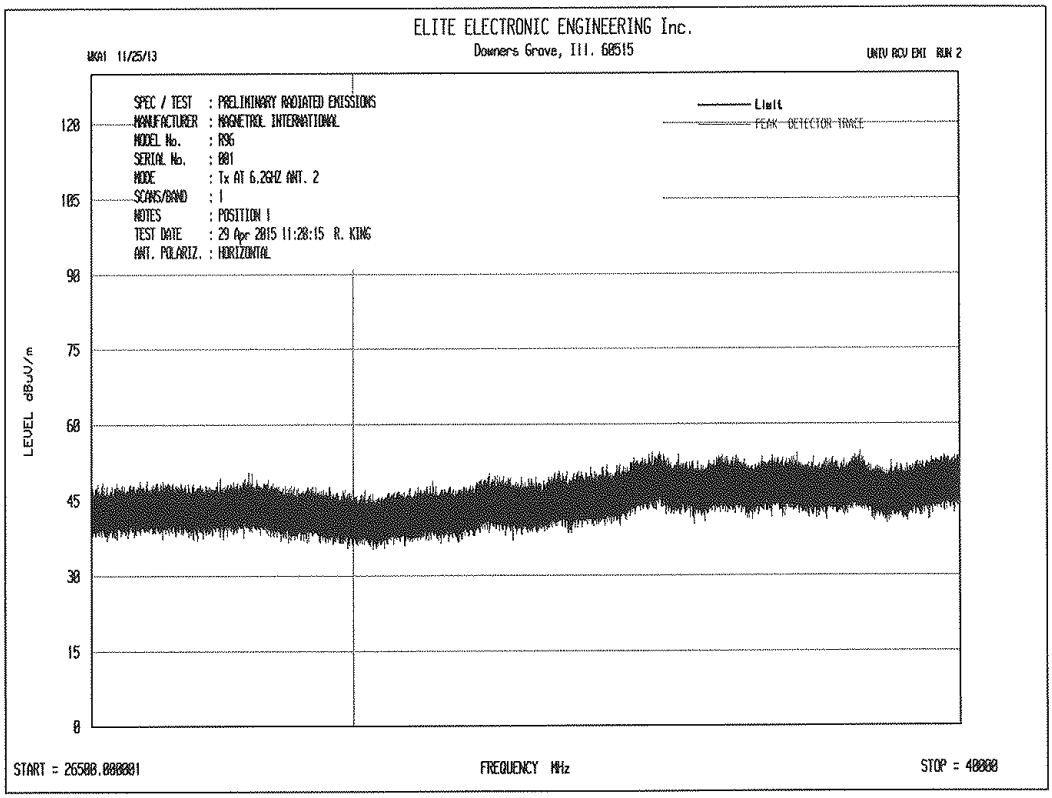


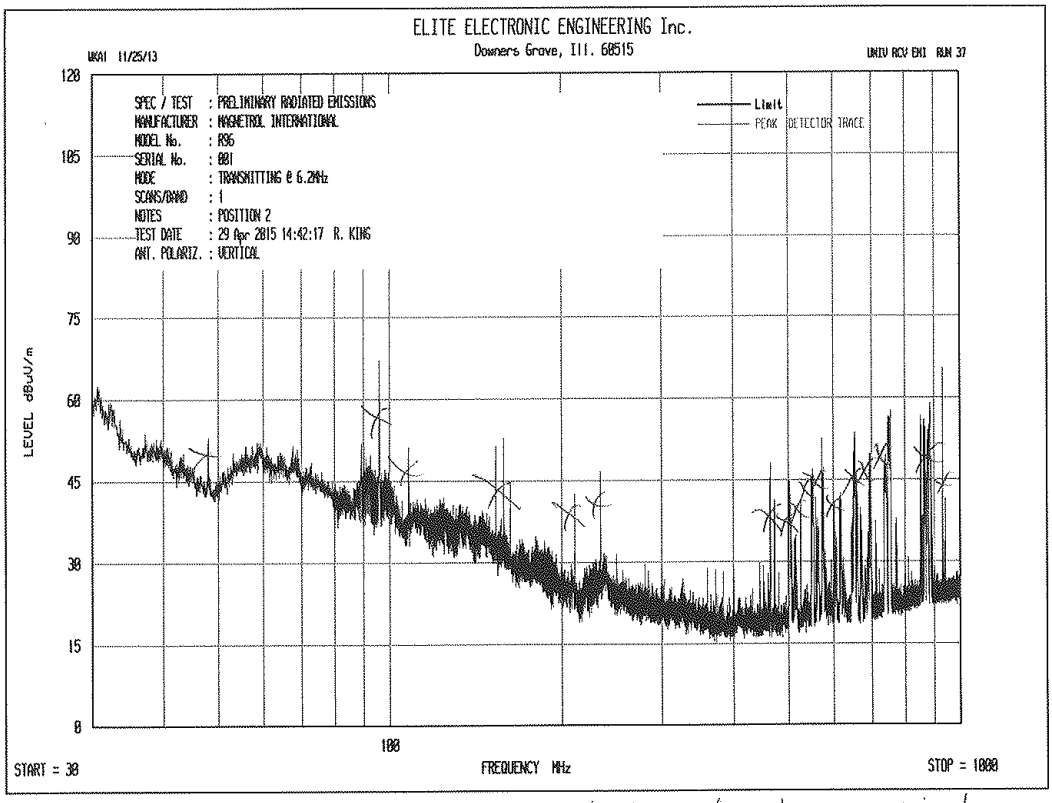
All emissions measured were within the ambient domain.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKR 11/25/13
UNIV ACV EXT RUN 19
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : RS6
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 12:31:16 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 18000
FREQUENCY MHz
STOP = 26500

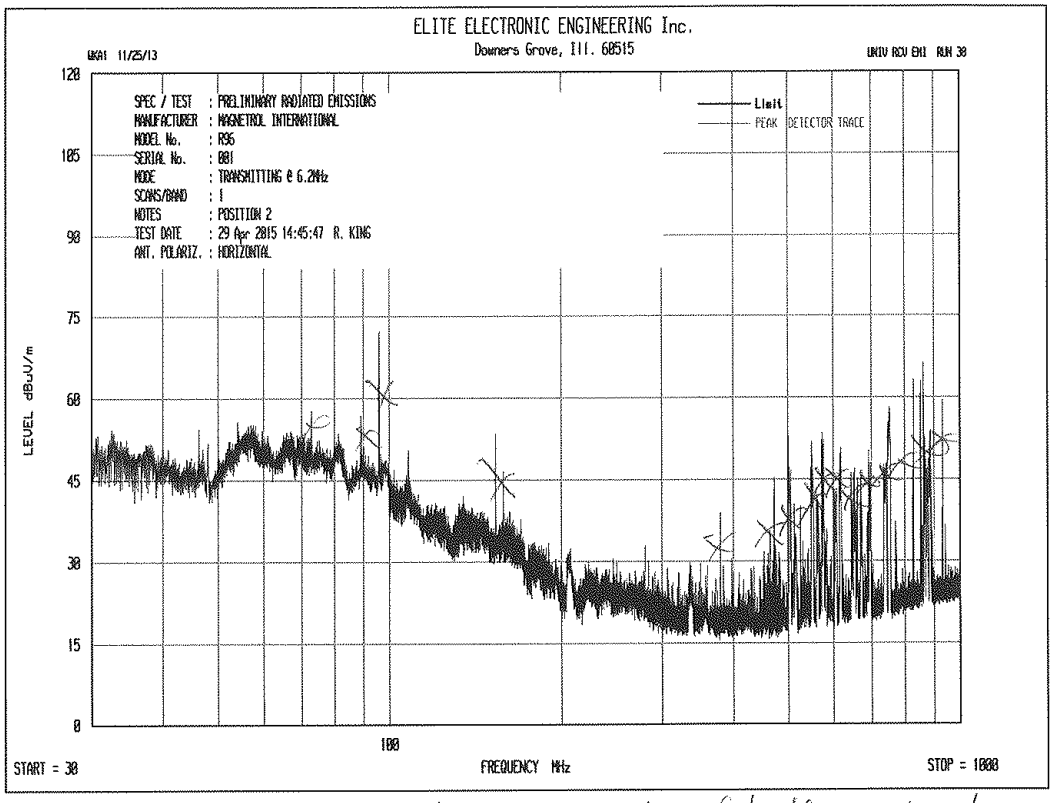

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EMI RUN 28
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 12:34:12 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EXT RUN 1
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 11:11:55 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 26500.000001
FREQUENCY MHz
STOP = 40000

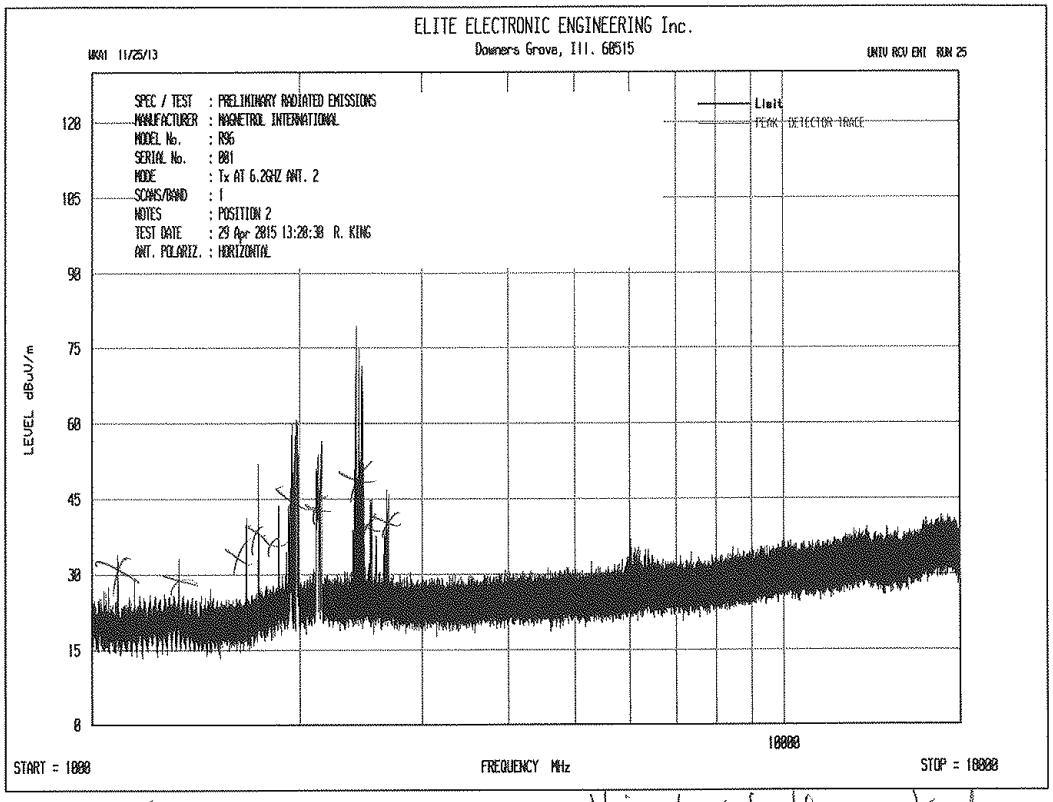

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 2
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : RSG
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 1
TEST DATE : 29 Apr 2015 11:28:15 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 26500.000001
FREQUENCY MHz
STOP = 40000



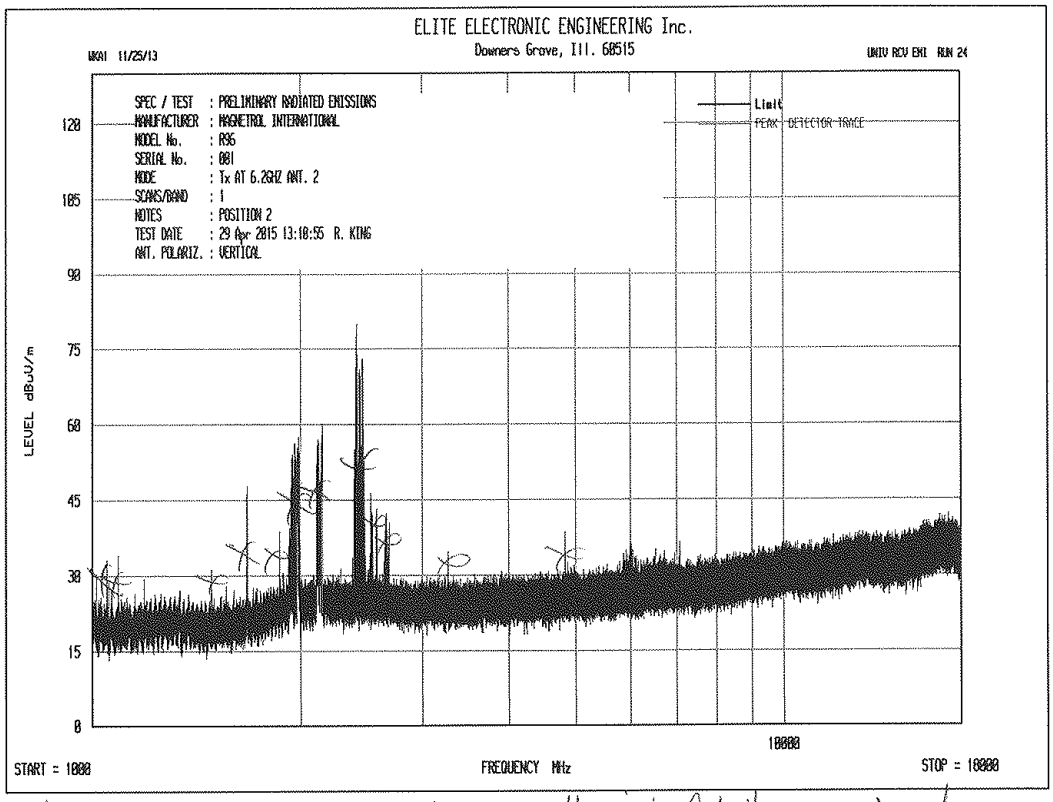
All emissions measured were attributed to the ambient environment.



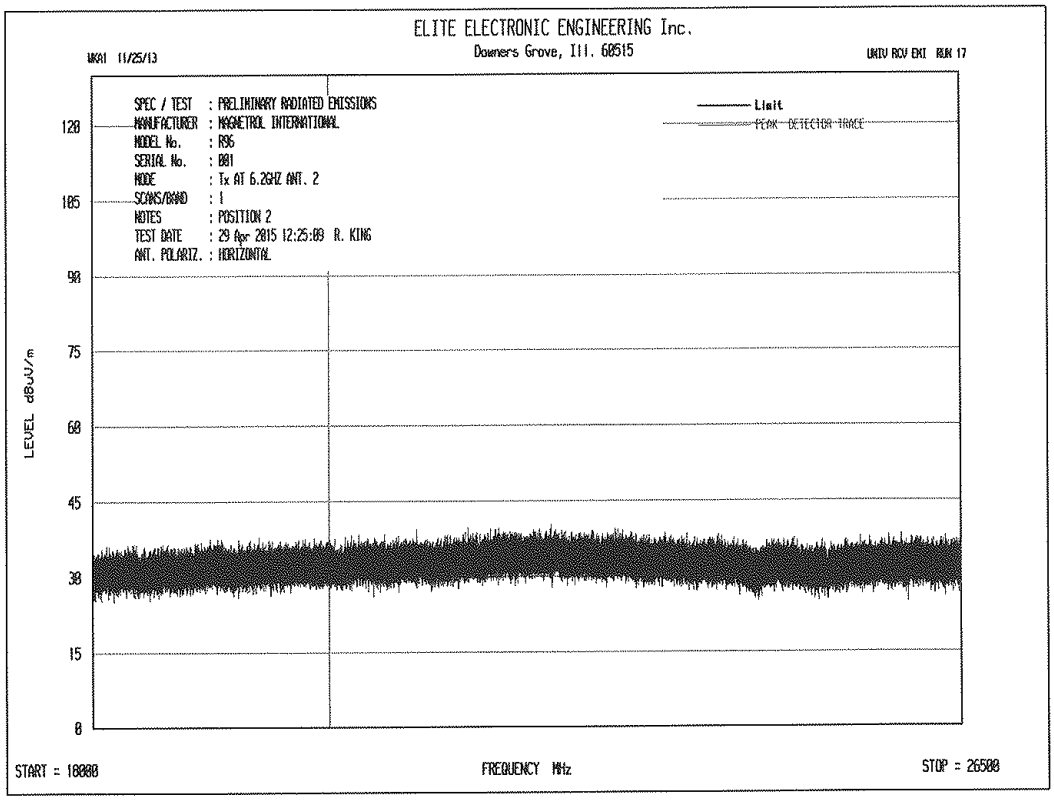
All emissions measured were attributed to the ambient environment.

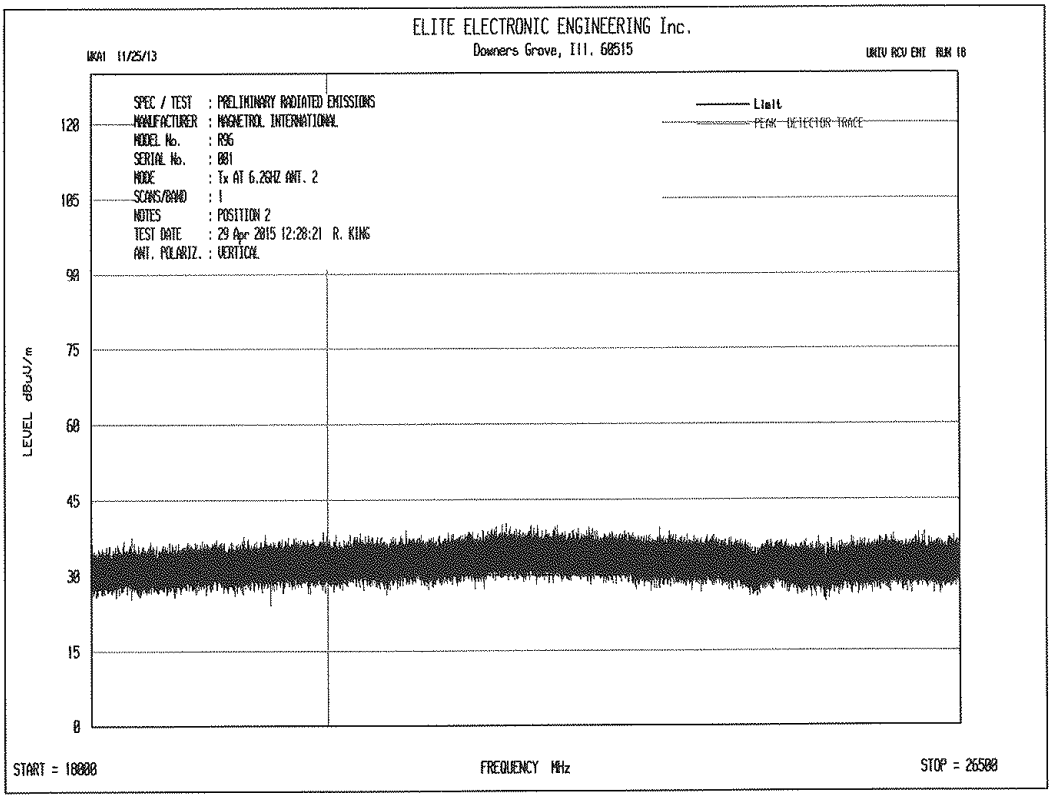


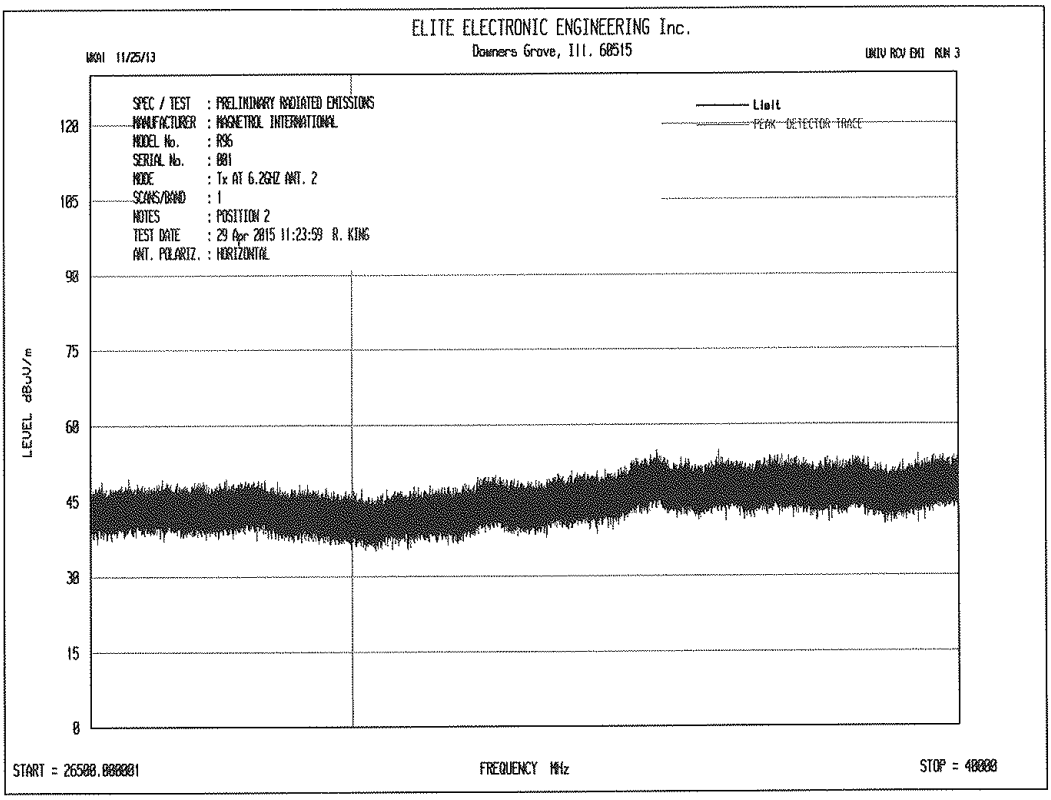
All emissions measured were attributed to the ambient environment.

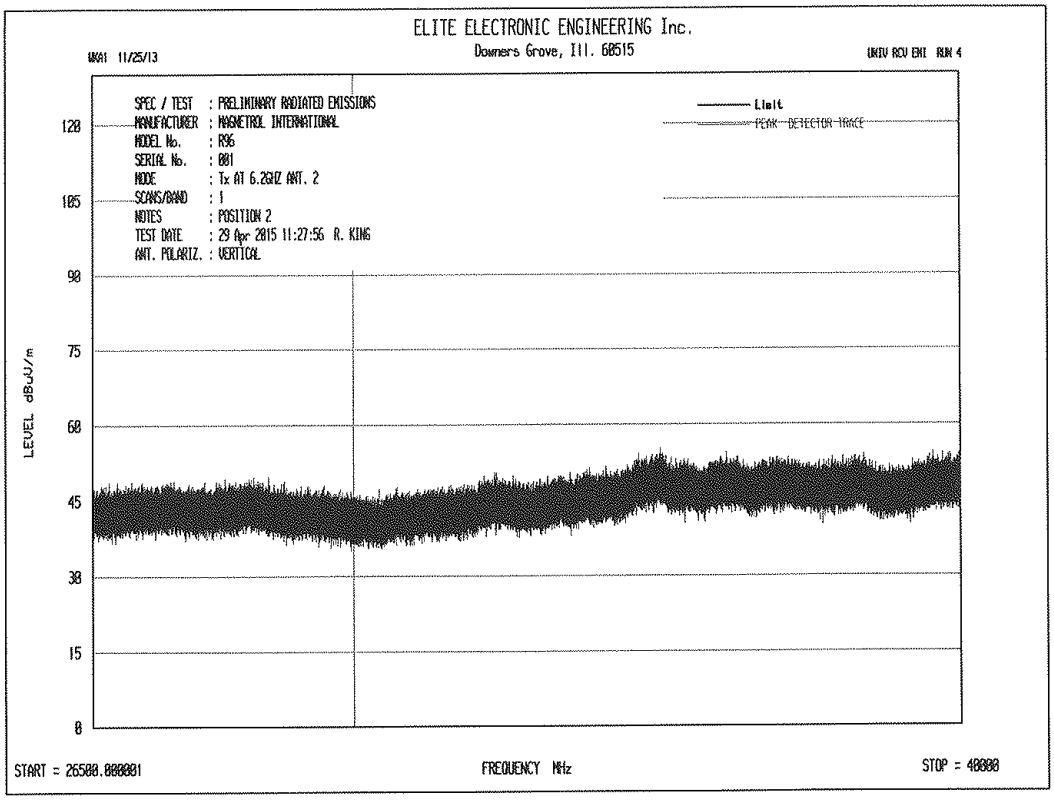


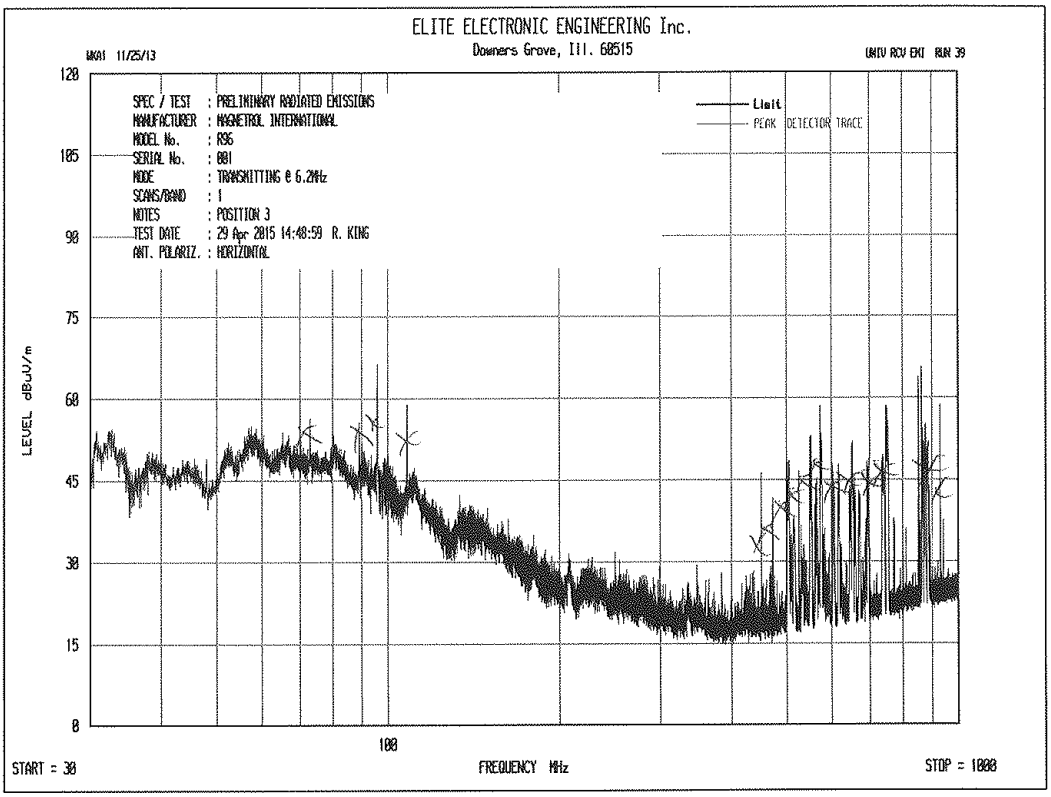
all emissions measured were attributed to the ambient environment.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EXT RUN 17
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 12:25:09 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 18000
FREQUENCY MHz
STOP = 26500

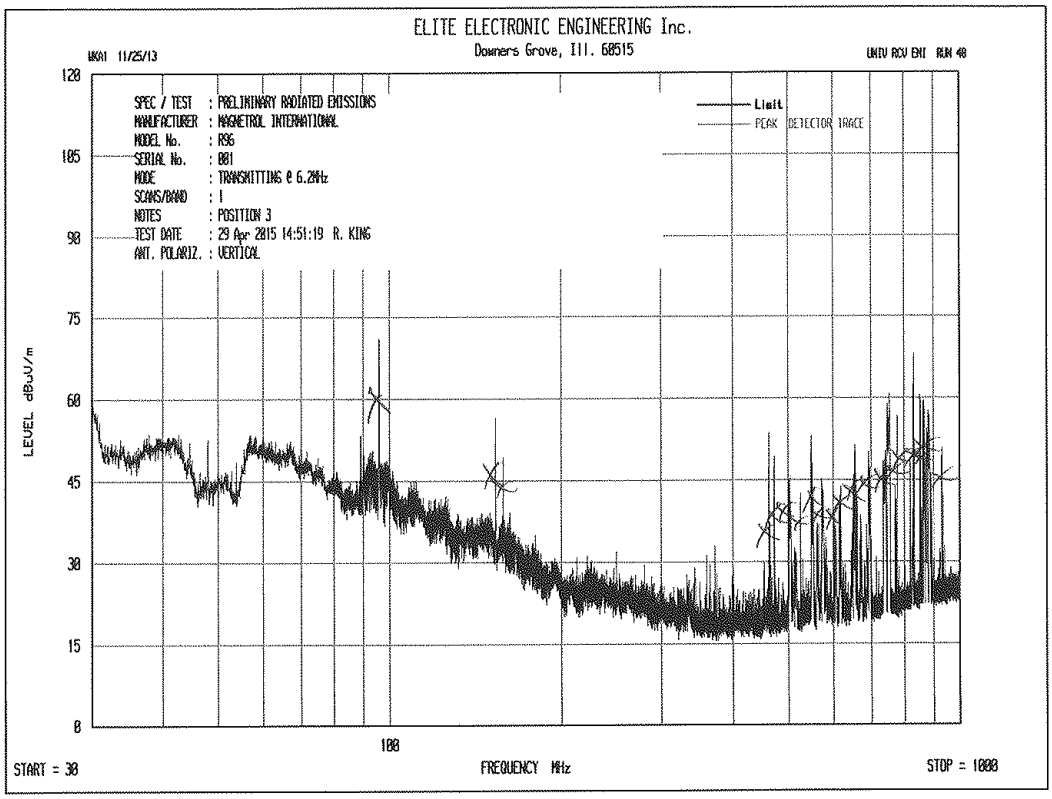

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EMI RUN 18
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 12:28:21 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
128
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UKOI 11/25/13
UKOV RCV EXT RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 11:23:59 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000

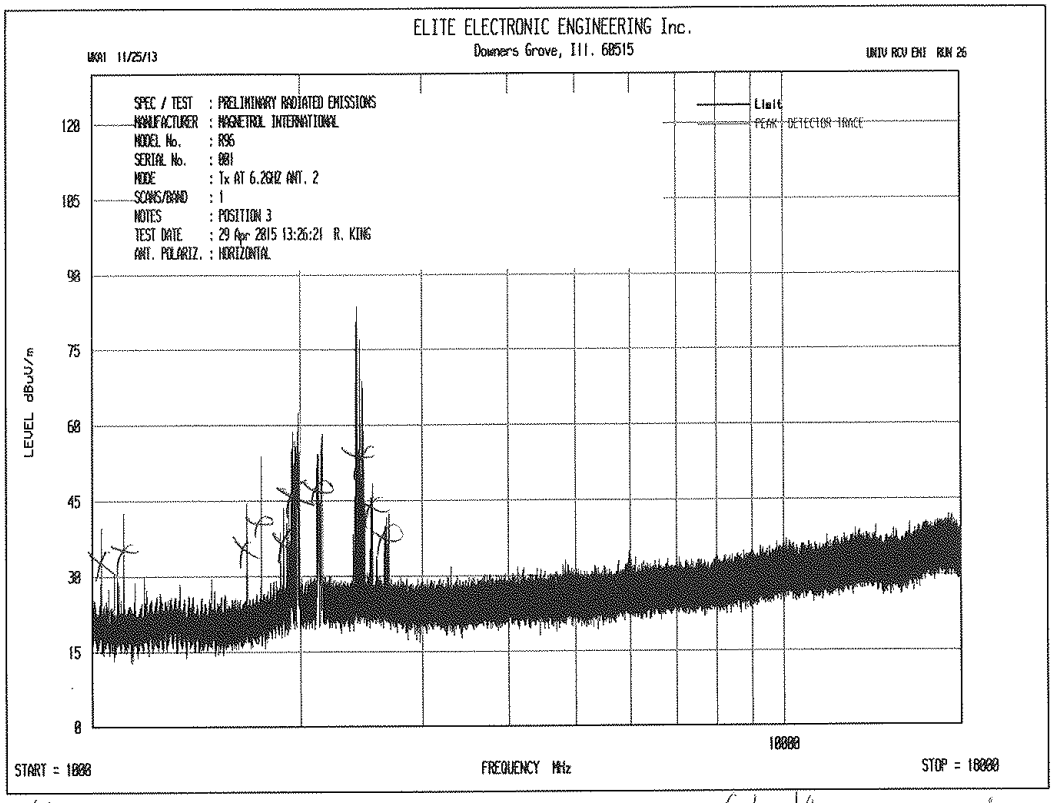

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 2
TEST DATE : 29 Apr 2015 11:27:56 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000



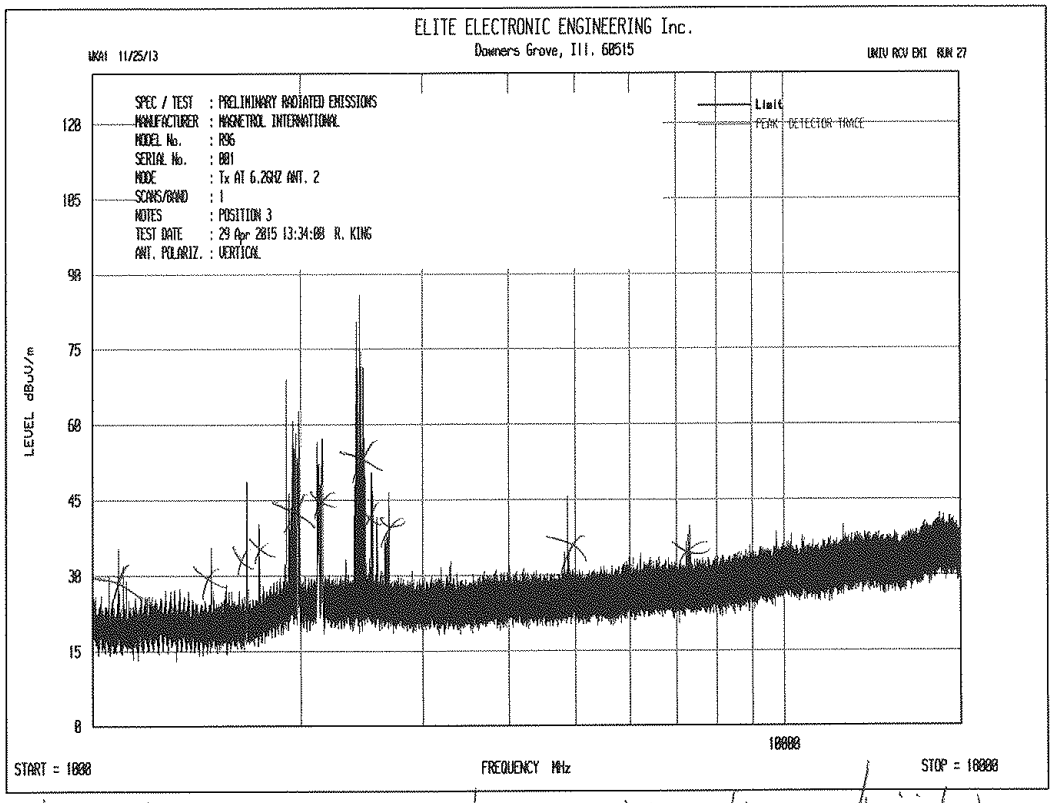
All emissions measured were attributed to the ambient environment.



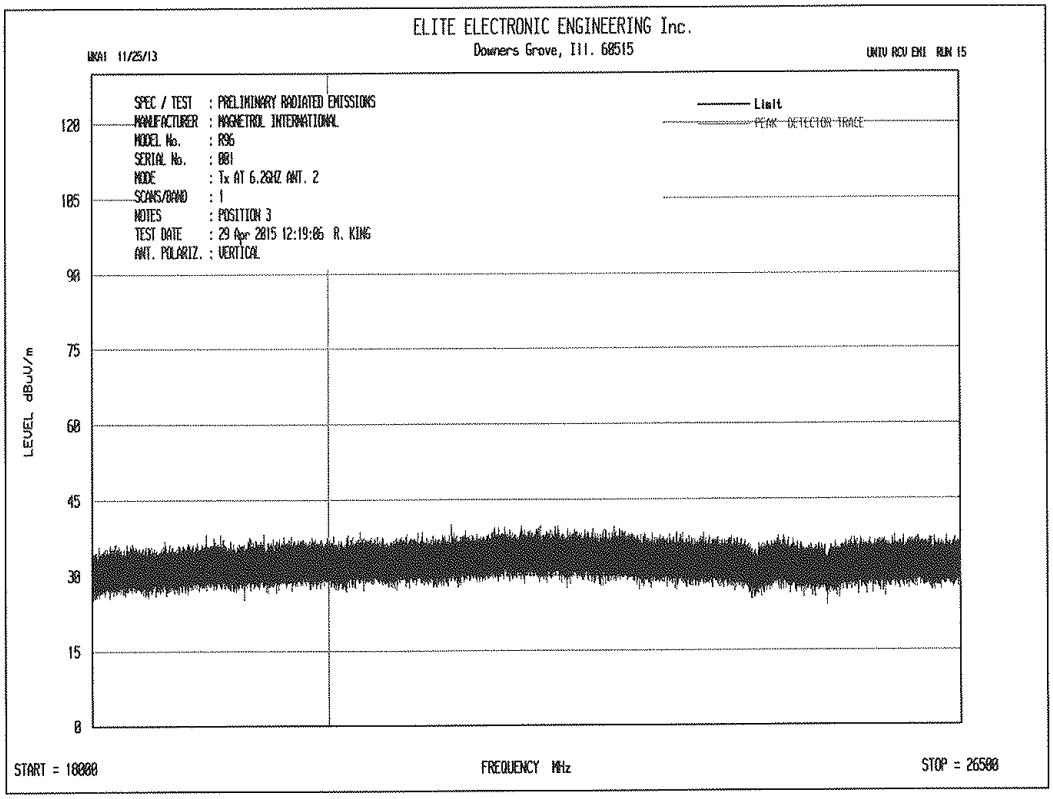
All emissions measured were attributed to the ambient environment.

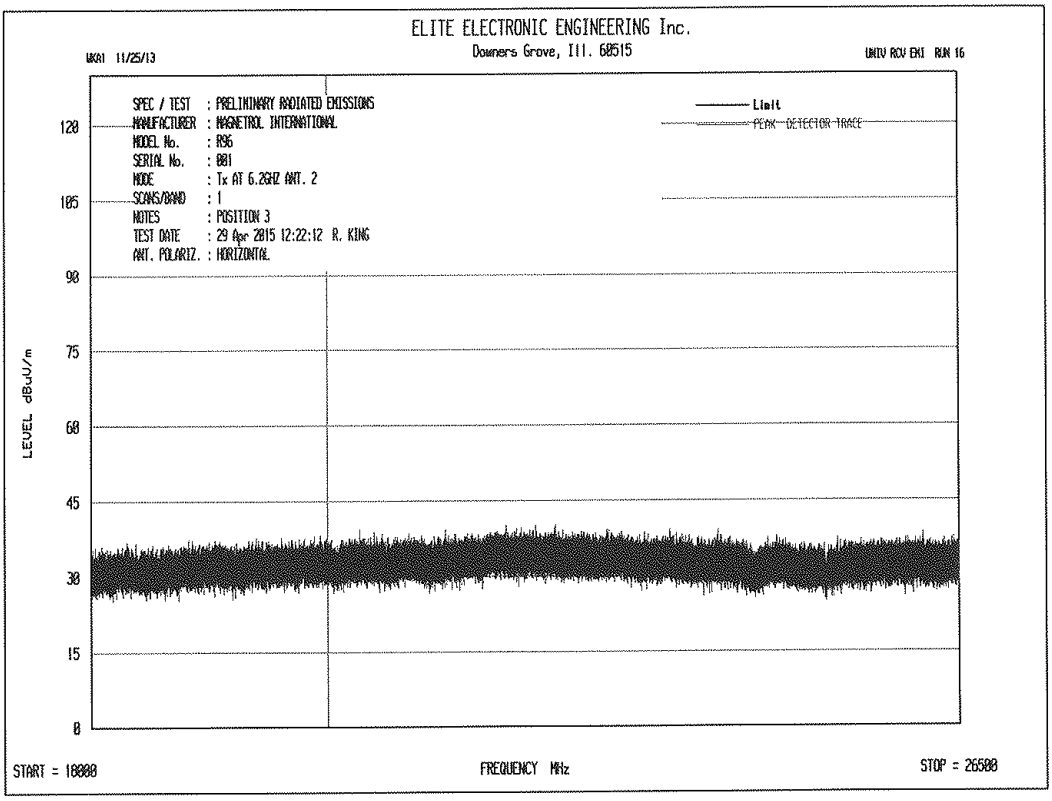


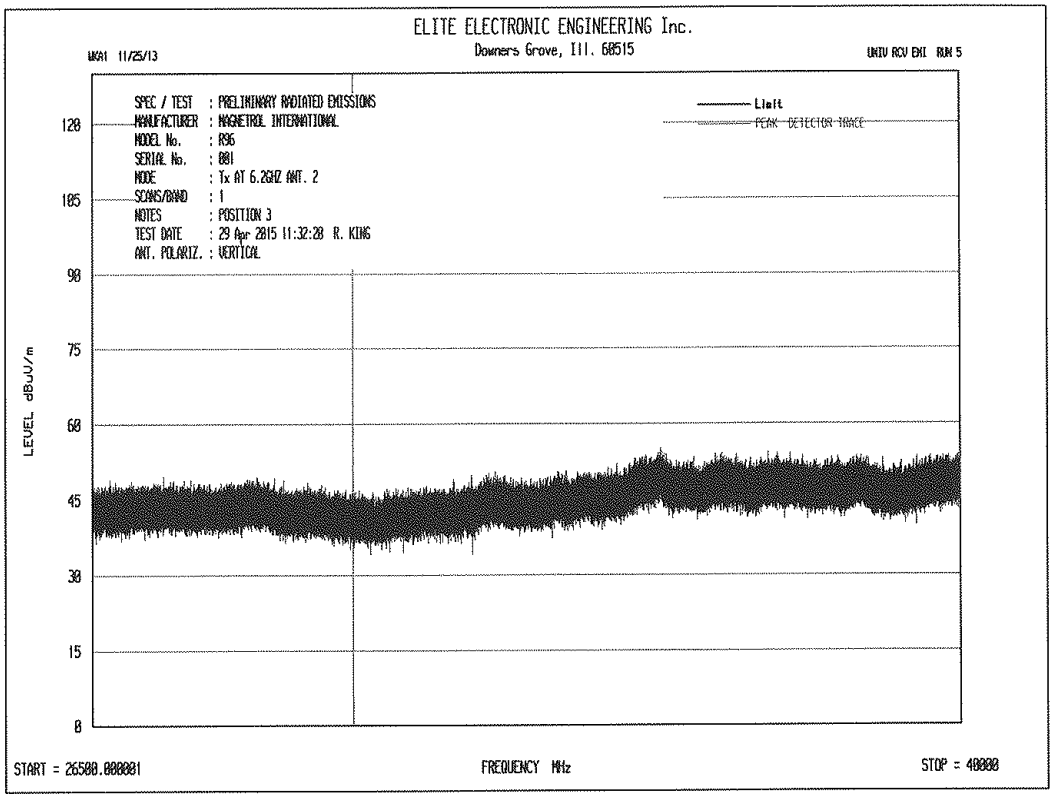
all emissions measured were attributed to the ambient environment.

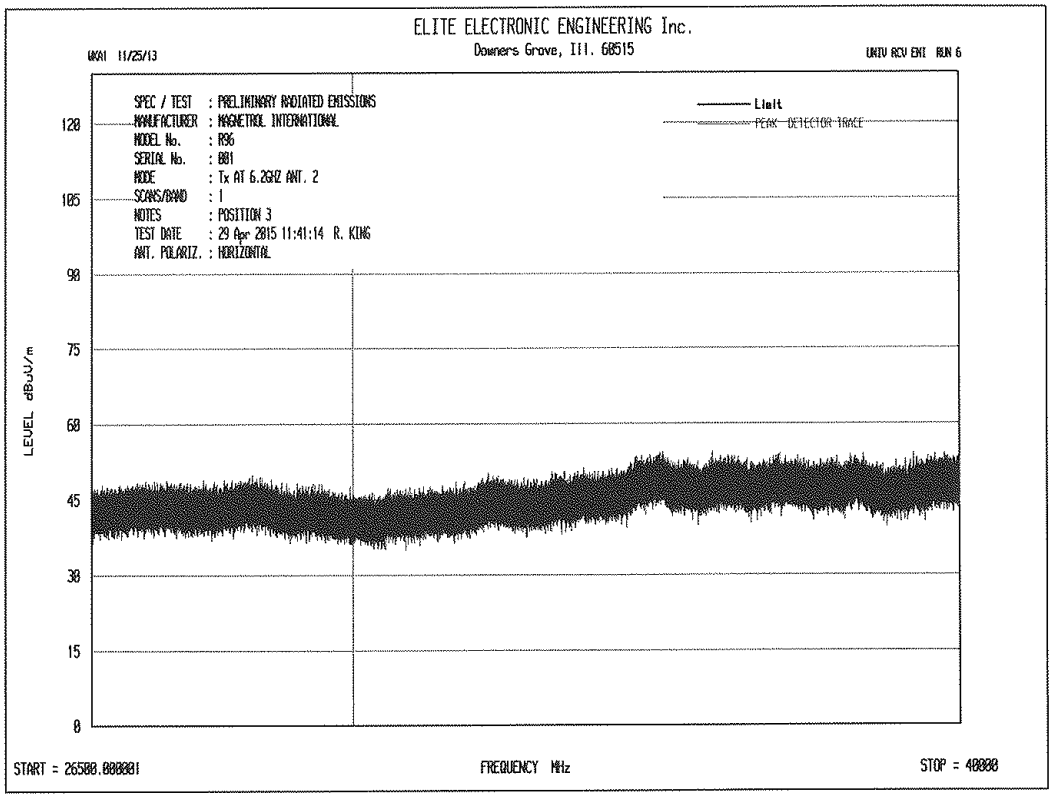


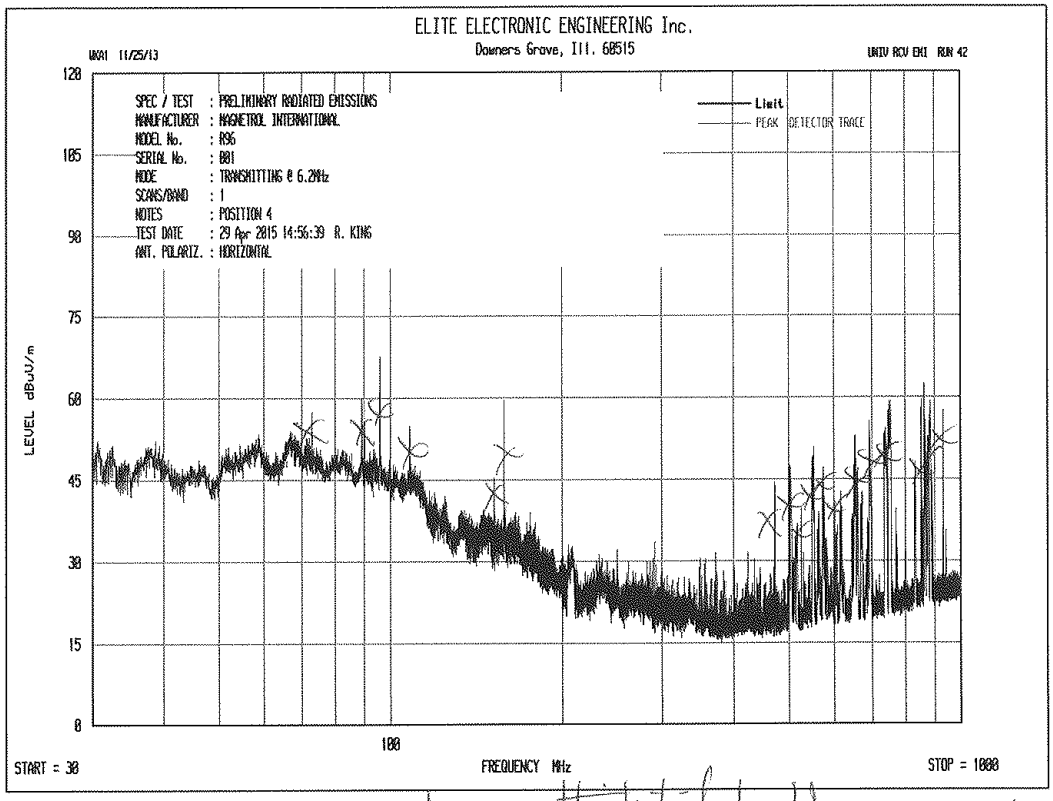
All emissions measured were within the analyzer domain.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WAA 11/25/13
UNIV RCV EXT RUN 15
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 12:19:06 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTION TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 18000
FREQUENCY MHz
STOP = 26500

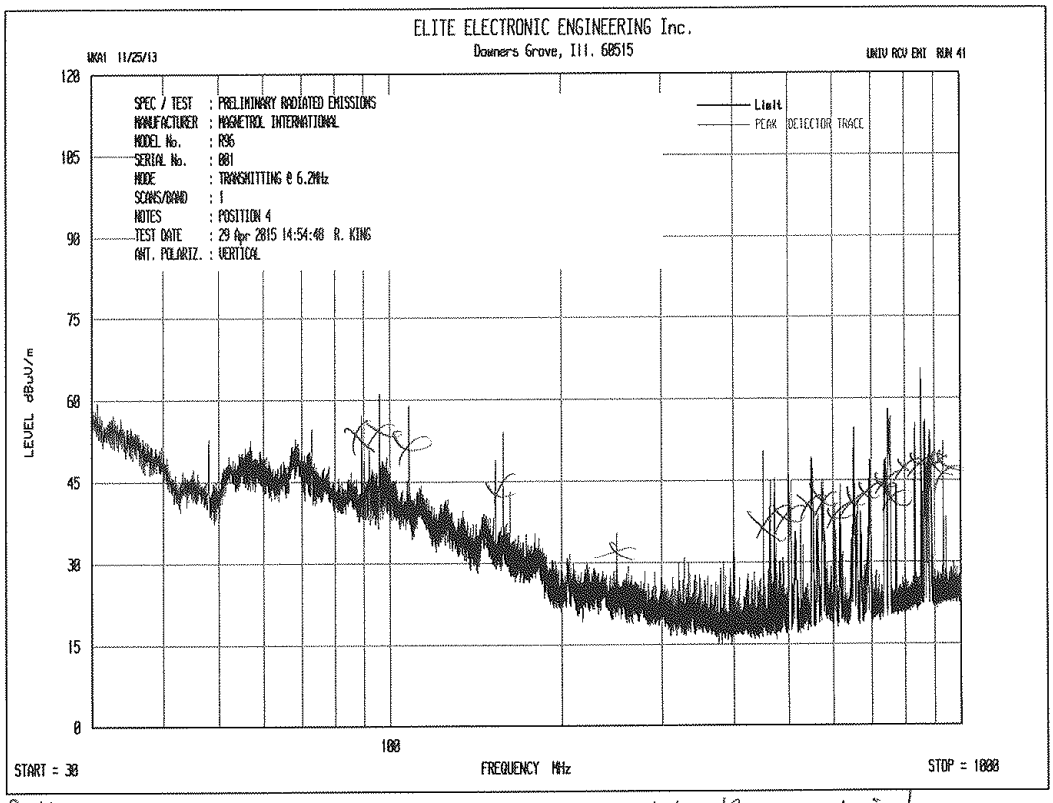

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UKN1 11/25/13
UNIV RCV EXT RUN 16
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 12:22:12 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 5
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 11:32:28 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 26500.000001
FREQUENCY MHz
STOP = 40000

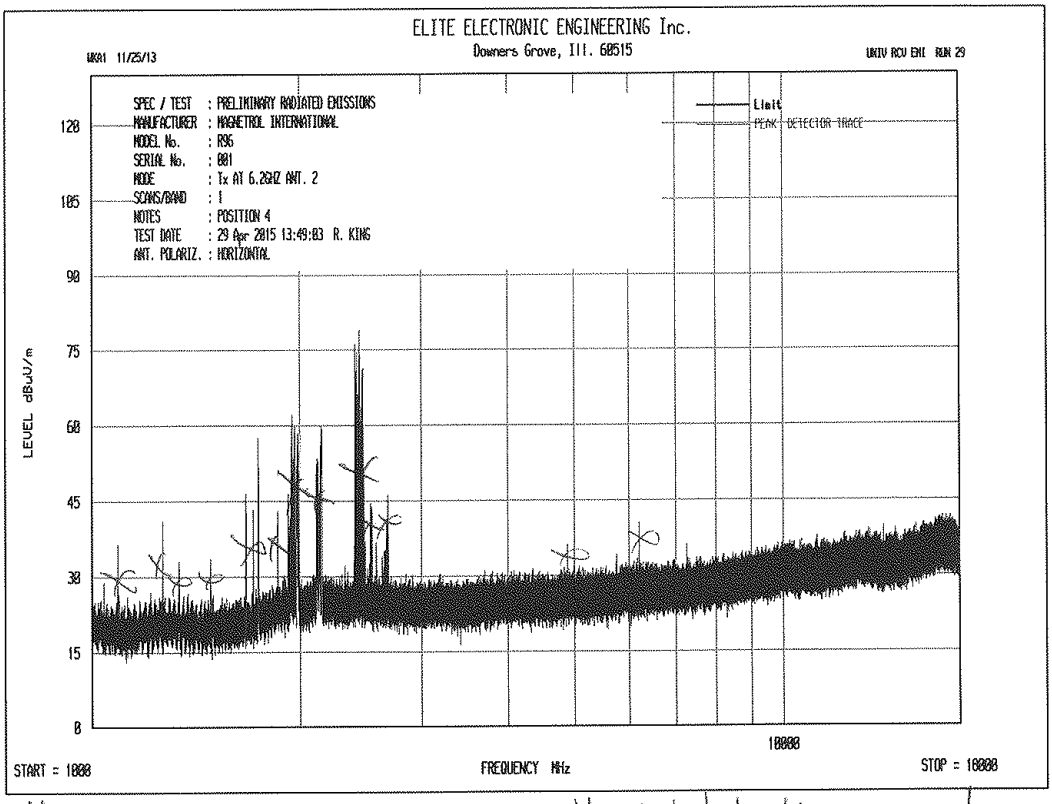

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WAI 11/25/13
UNIV RCV EXT RUN 6
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 3
TEST DATE : 29 Apr 2015 11:41:14 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000



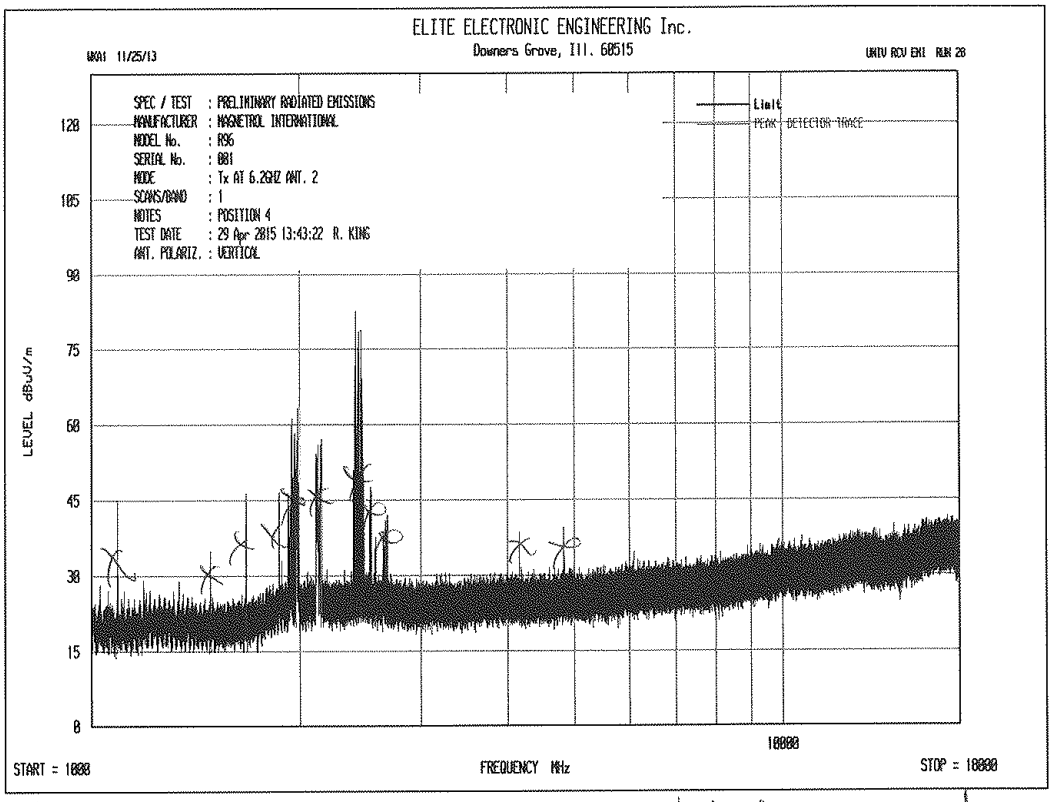
All emissions measured were attributed to the ambient environment.



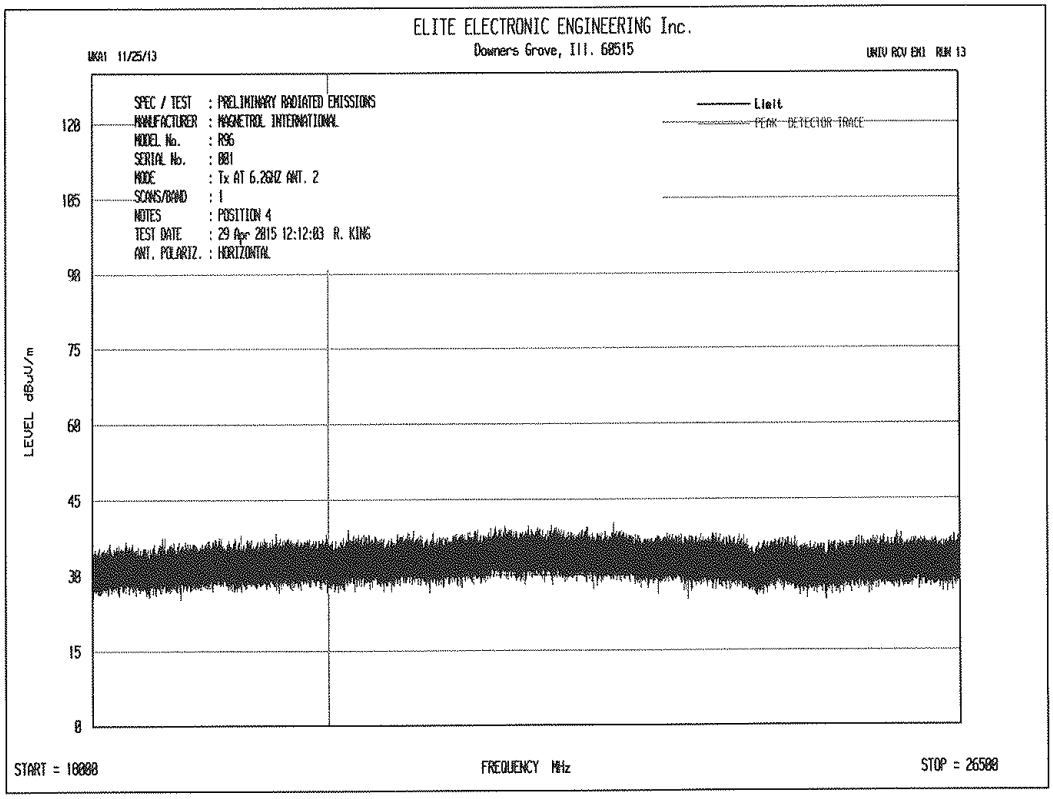
All emissions measured were attributed to the ambient environment.

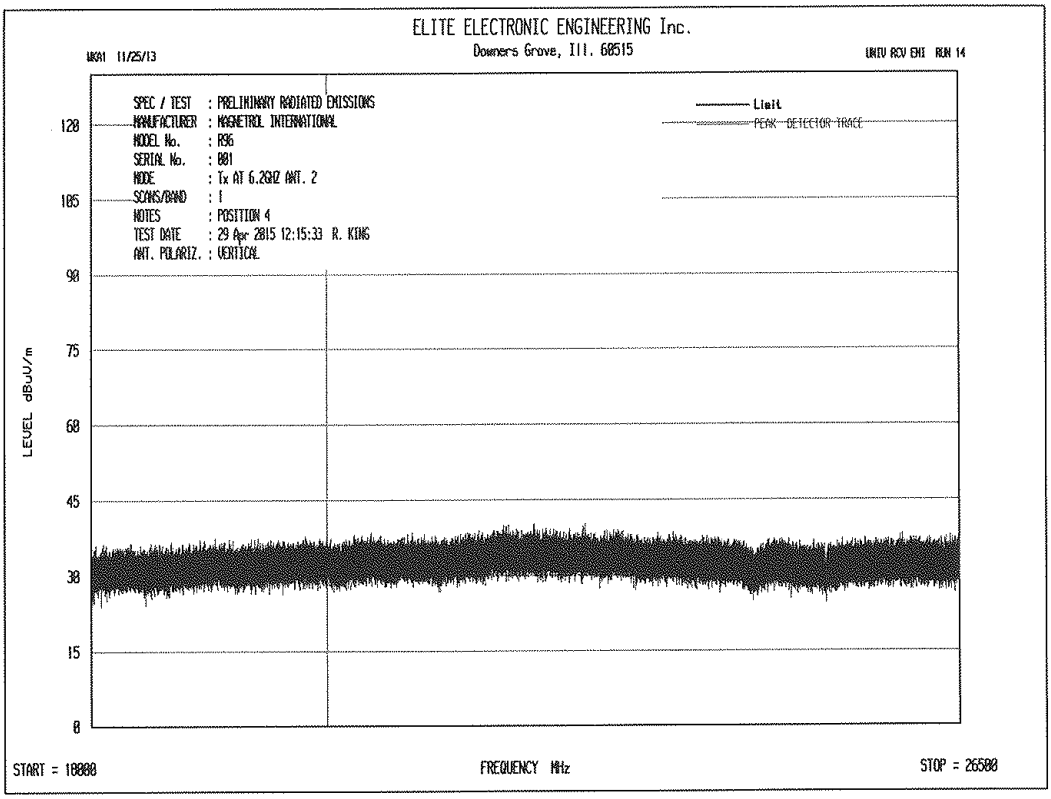


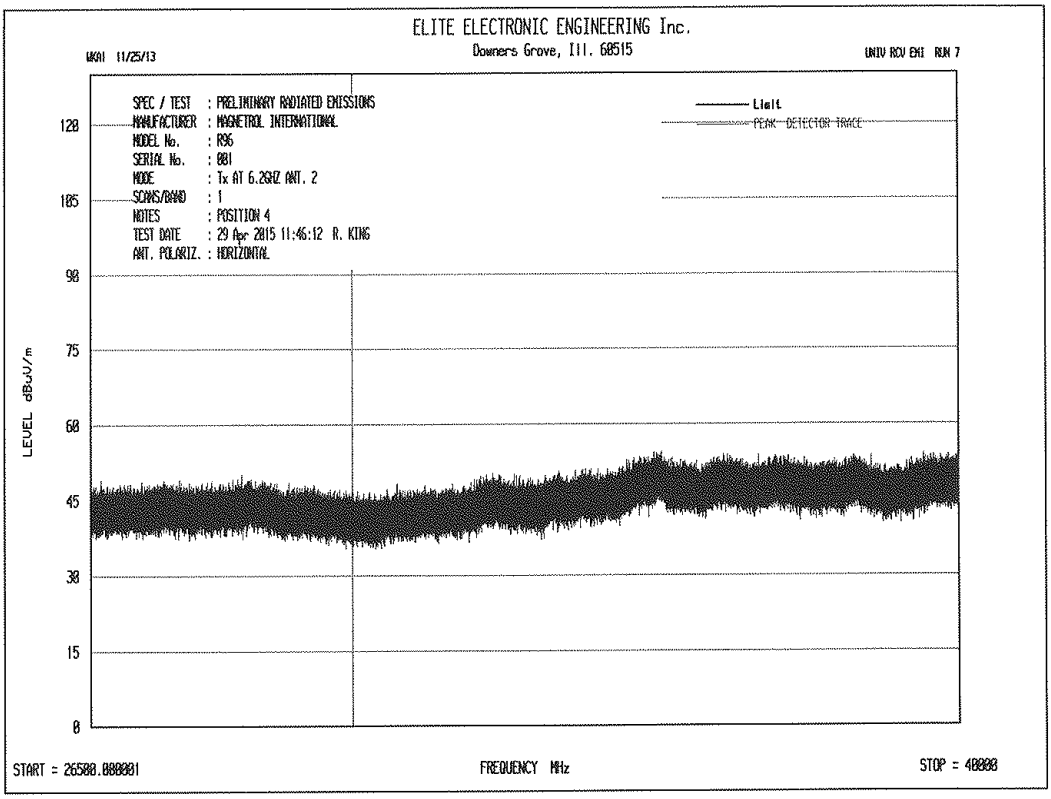
All emissions measured were attributed to the ambient environment.

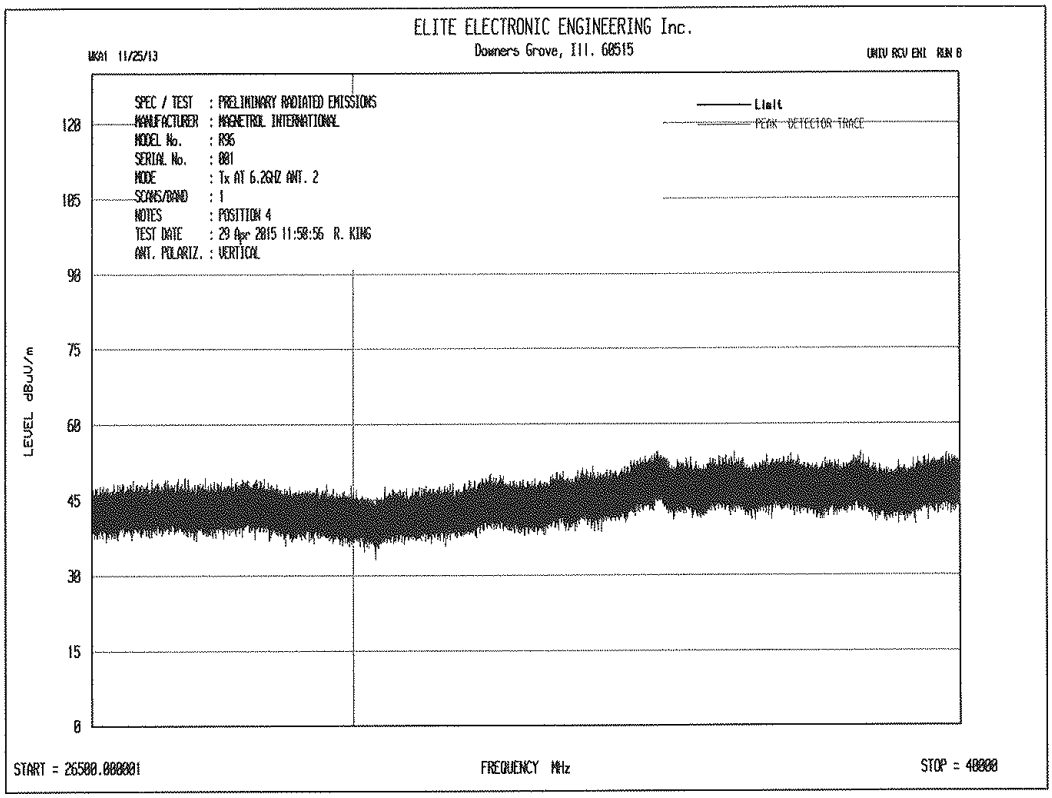


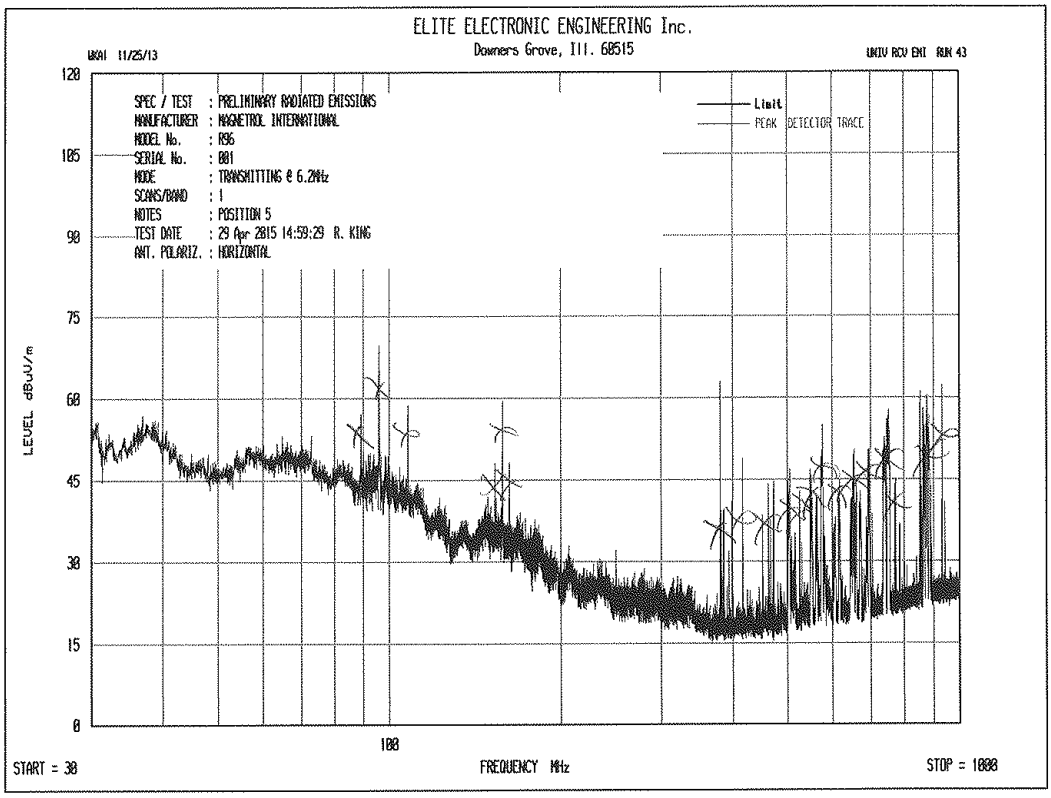
all emissions measured were attributed to the ambient environment.


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UKA1 11/25/13
UNIV RCV EX1 RUN 13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 12:12:03 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

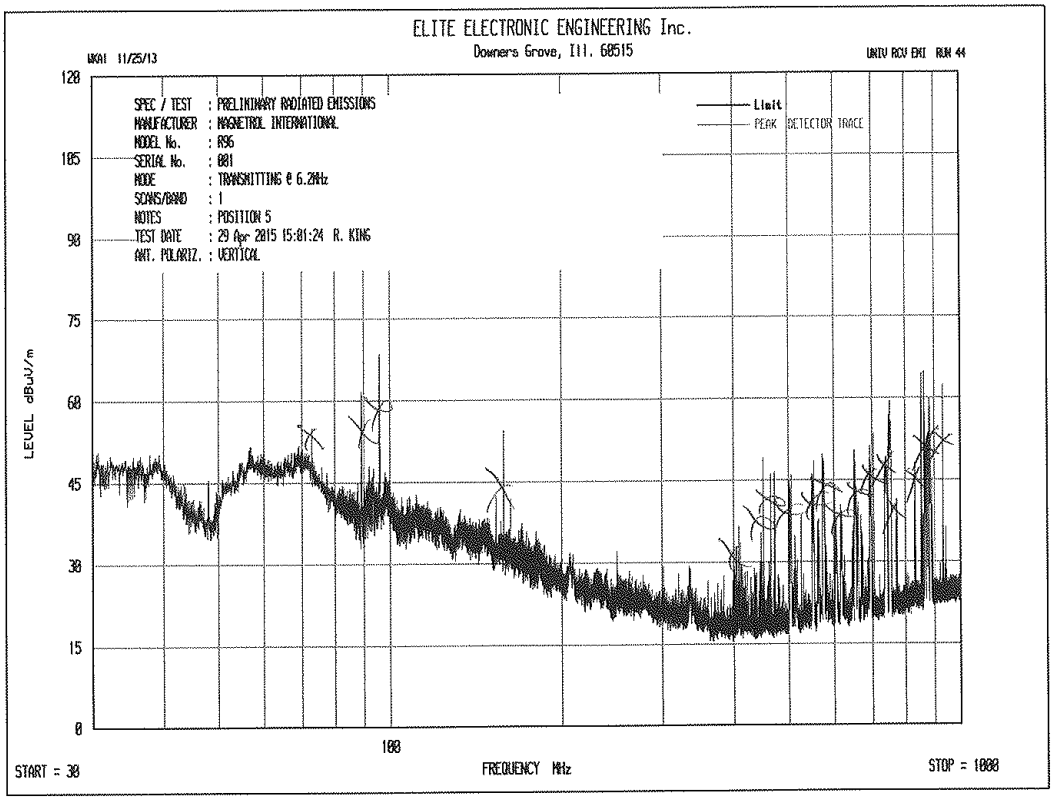

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 14
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2912 ANT. 2
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 12:15:33 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EXT RUN 7
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 11:46:12 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000

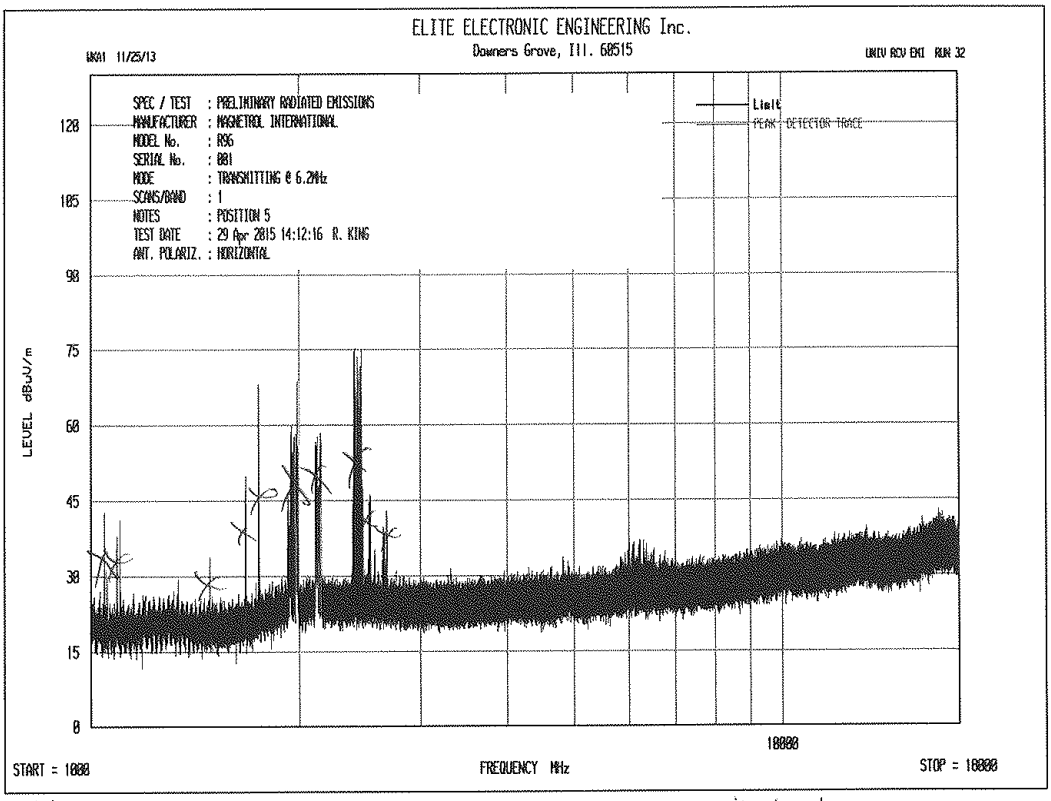

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WRA1 11/25/13
UNIV RCV EXT RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 4
TEST DATE : 29 Apr 2015 11:58:56 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000



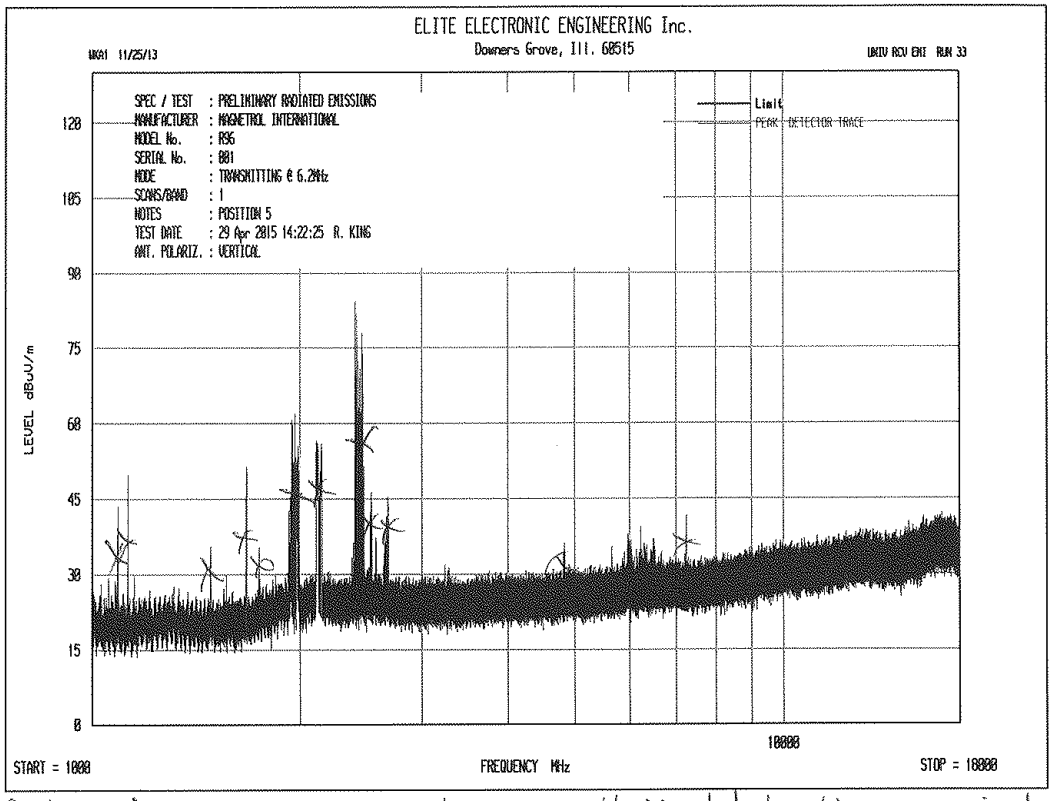
All emissions measured were attributed to the ambient environment.



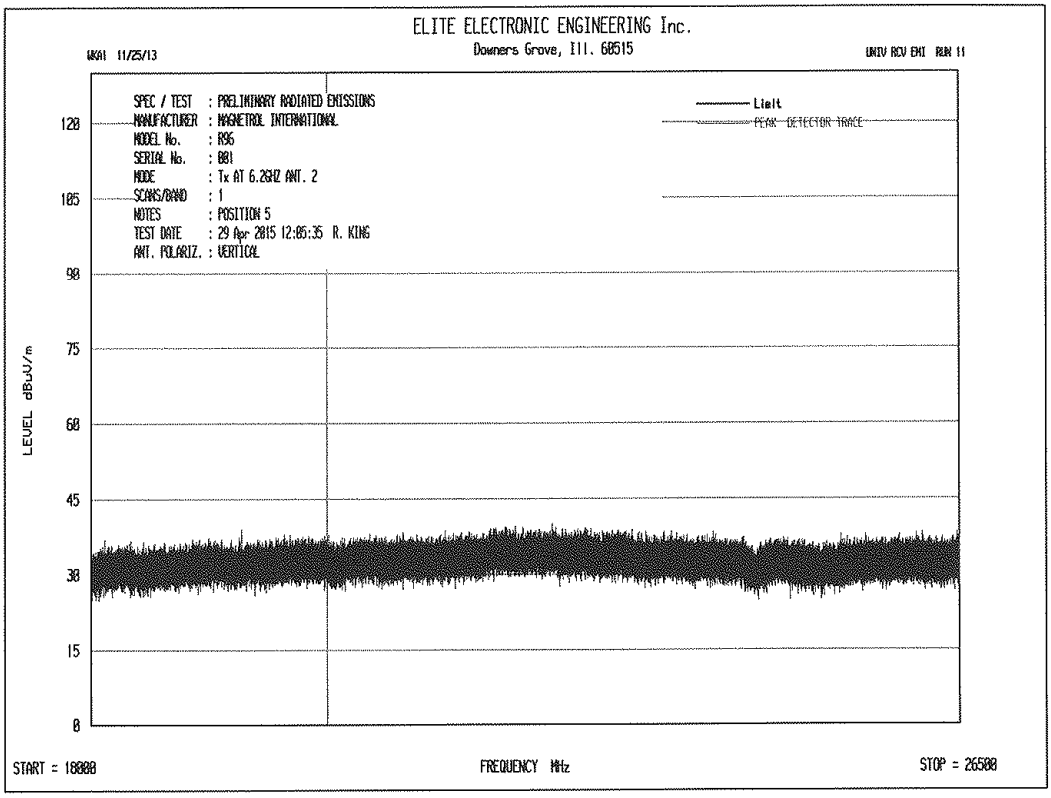
All emissions measured were attributed to the ambient environment.

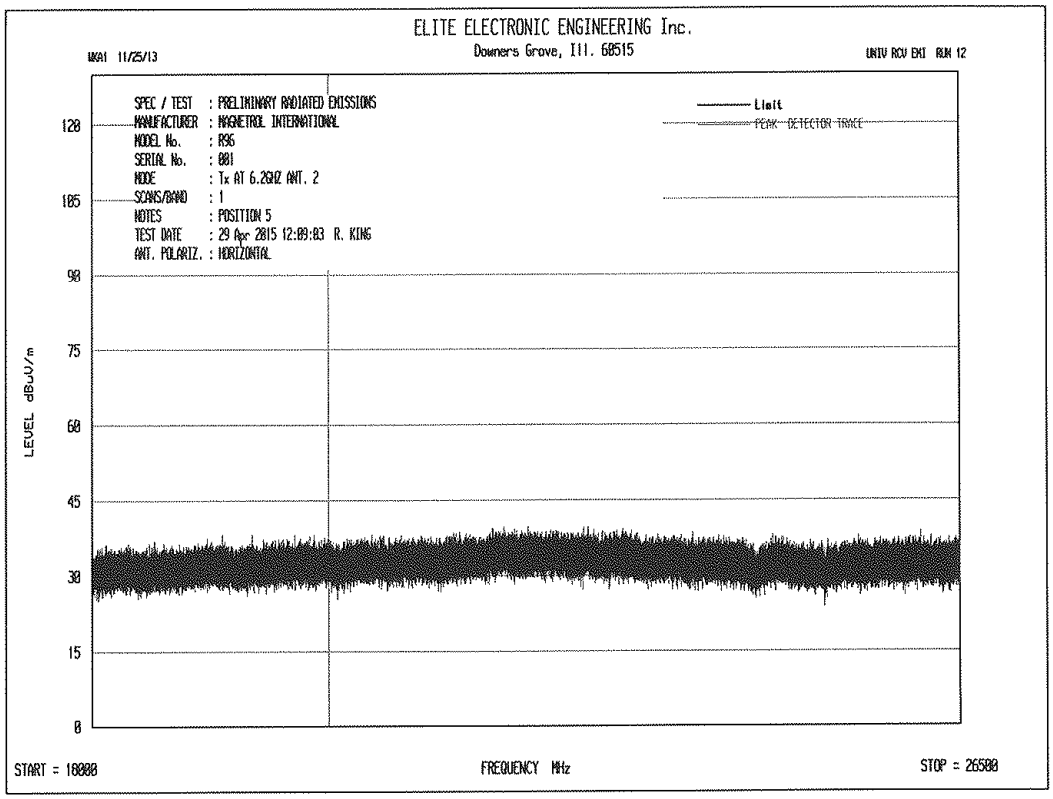


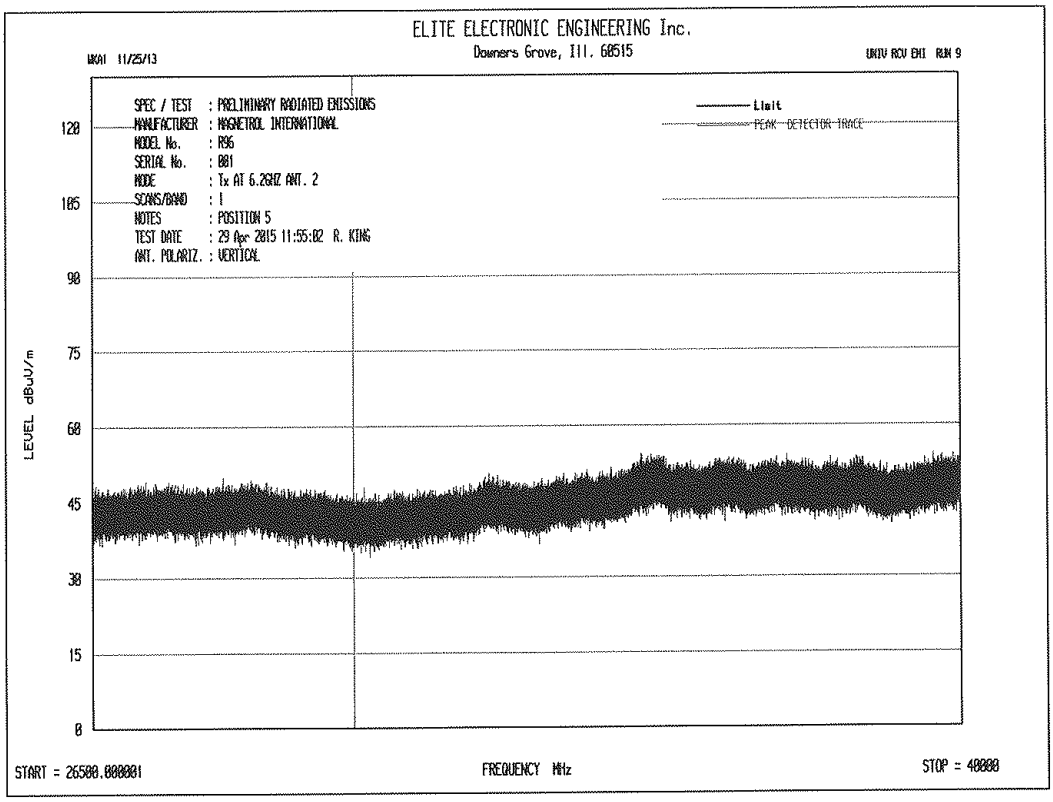
All emissions measured were attributed to the ambient environment.

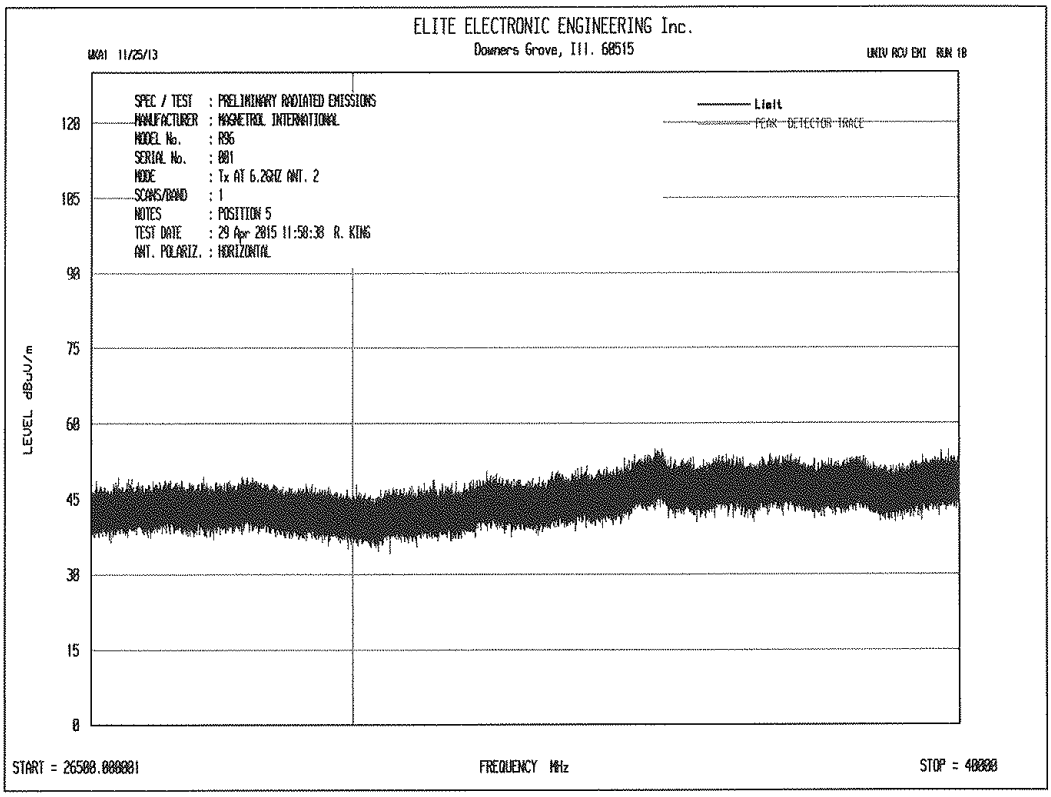


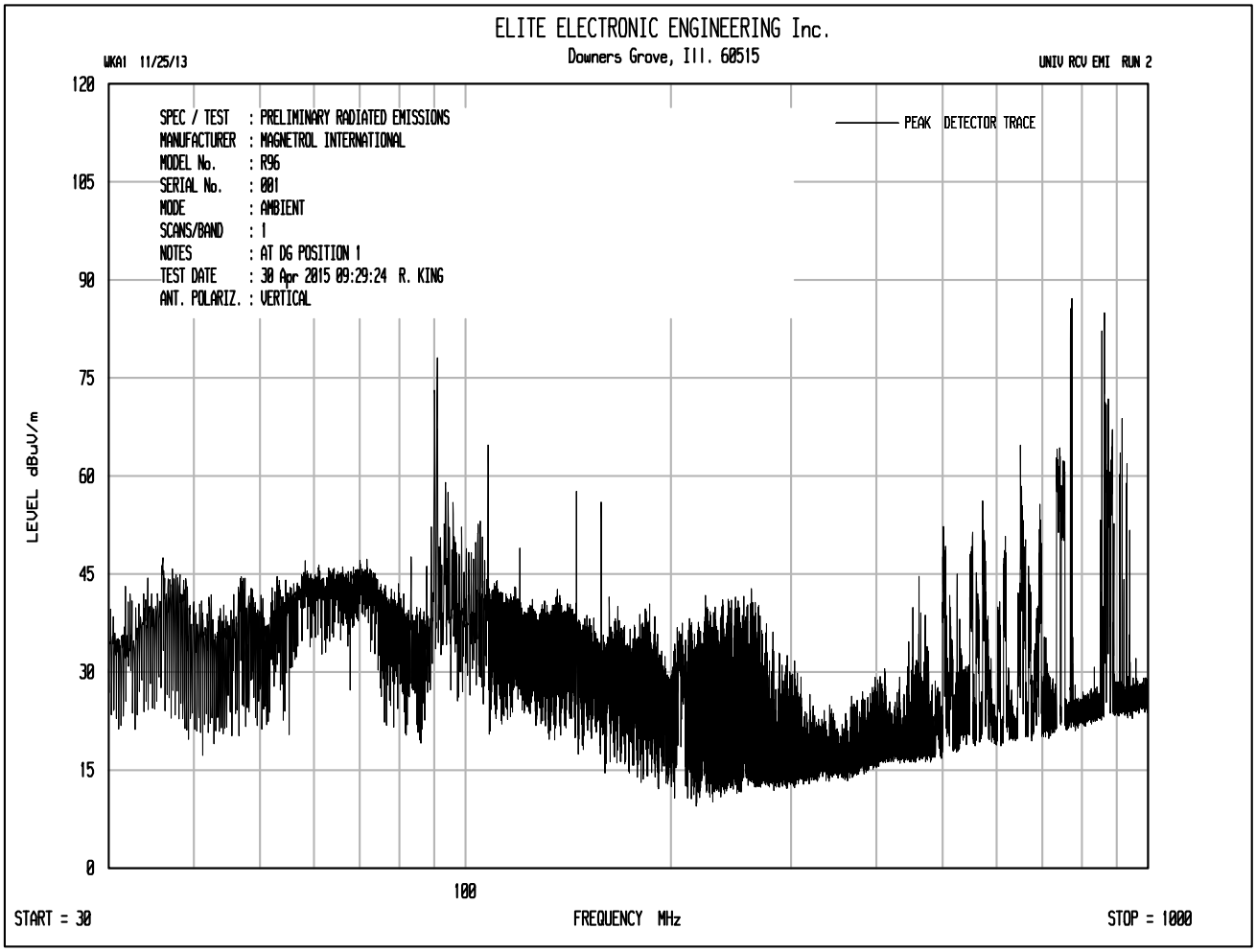
All emissions measured were attributed to the ambient environment.

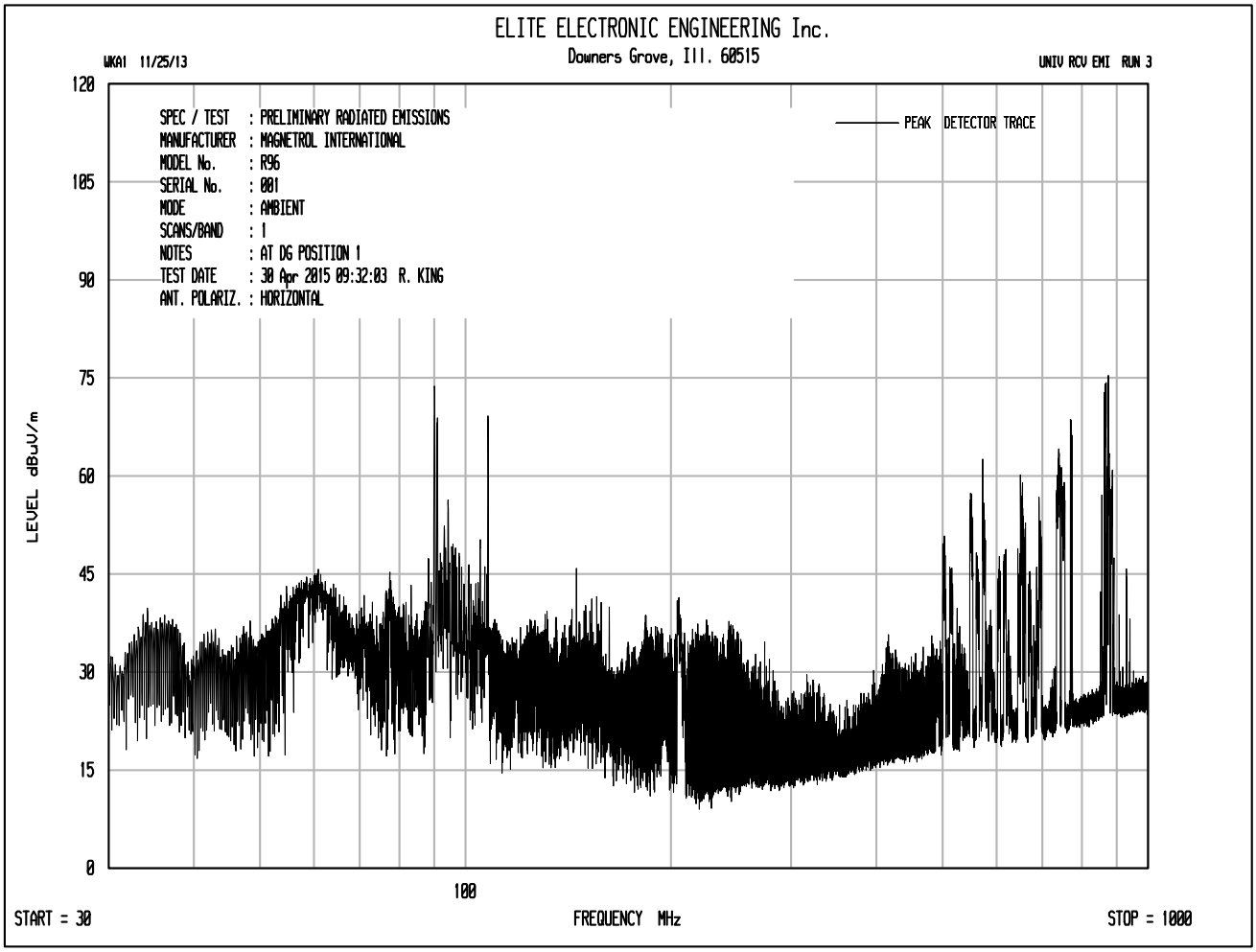

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EMI REV 11
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : 705
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 12:05:35 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
120
105
90
75
60
45
30
15
0
LEVEL dBuV/m
START = 18000
FREQUENCY MHz
STOP = 26500

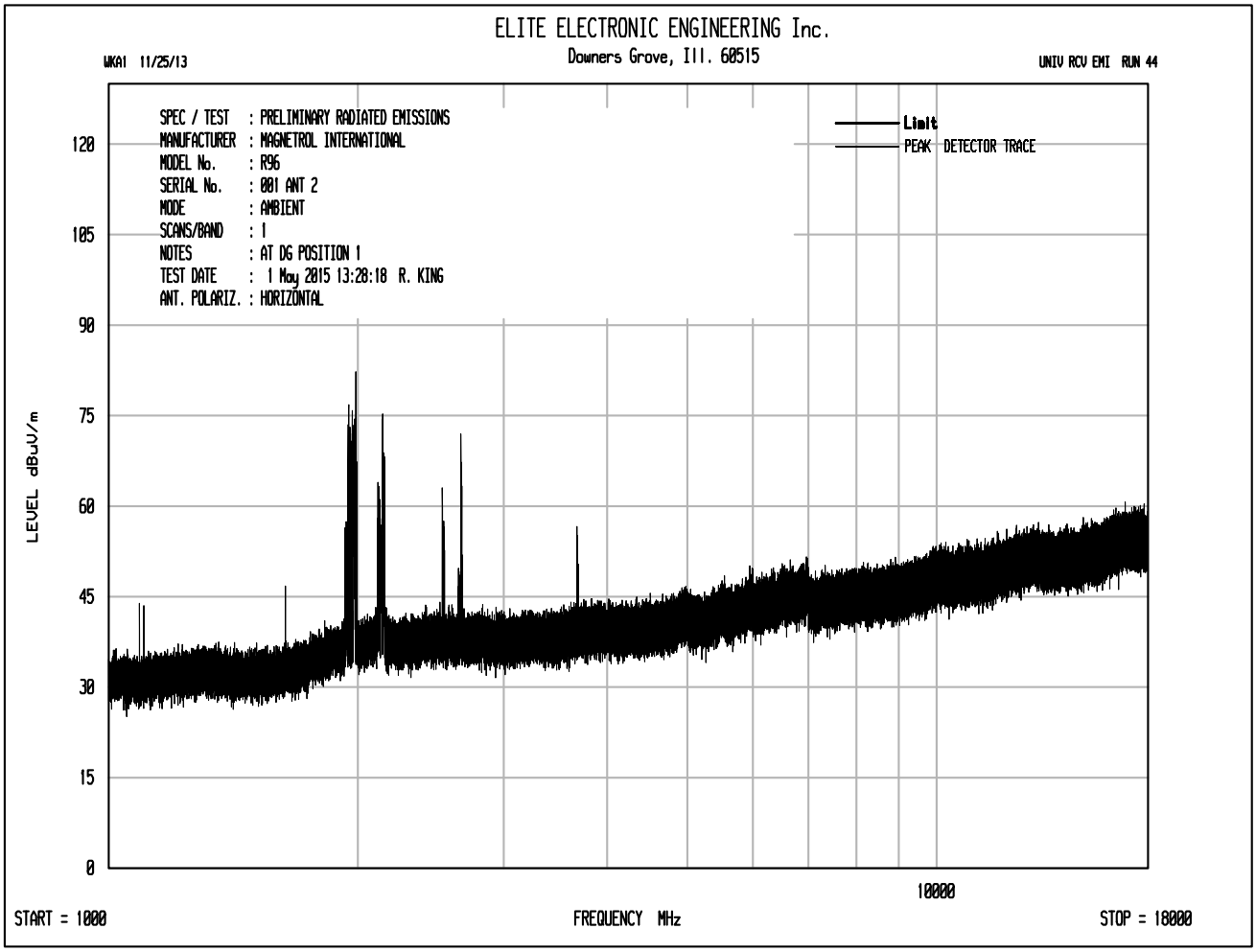

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 12
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2912 ANT. 2
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 12:09:03 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

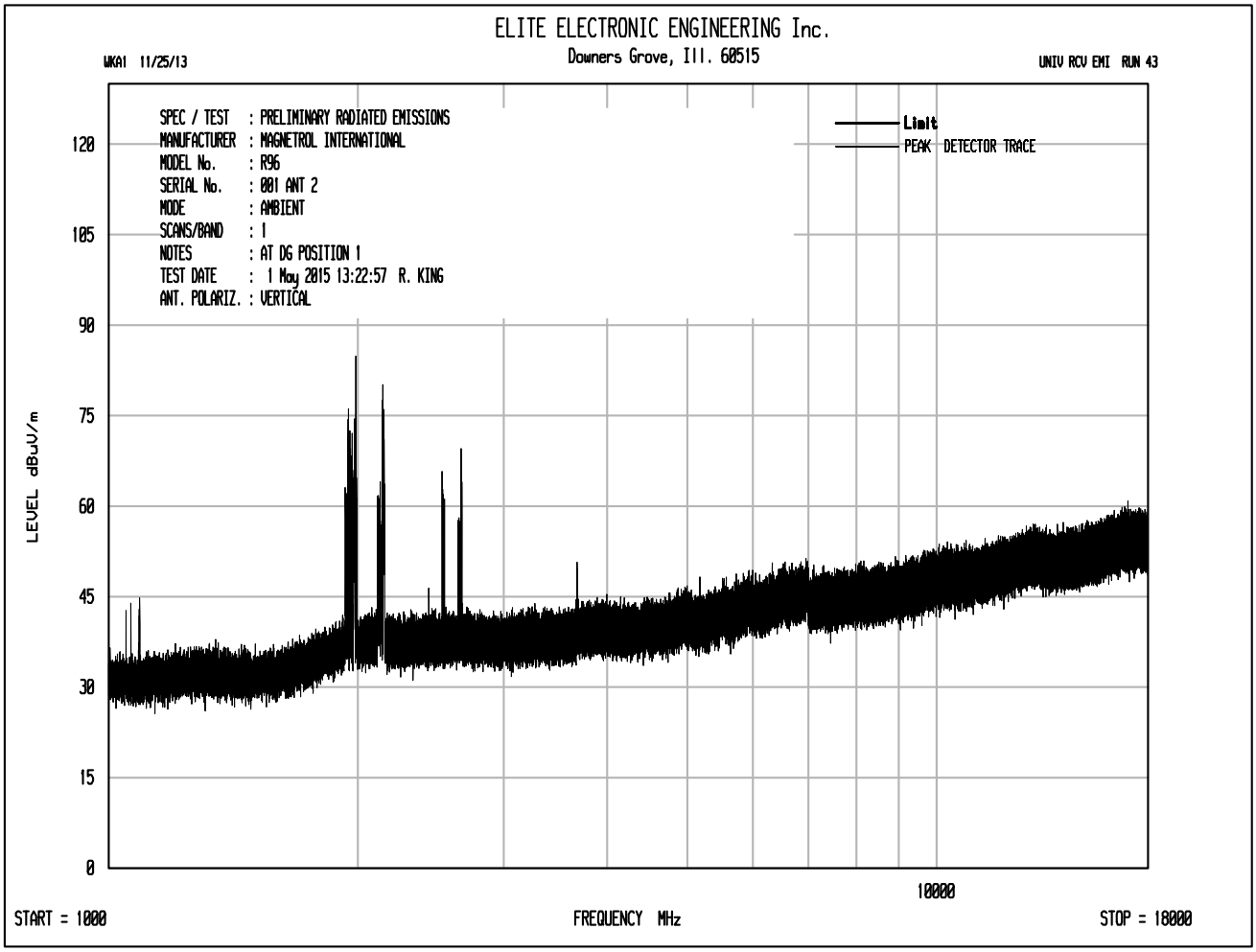

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UKA1 11/25/13
UKIV RCV EH1 RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 11:55:02 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000

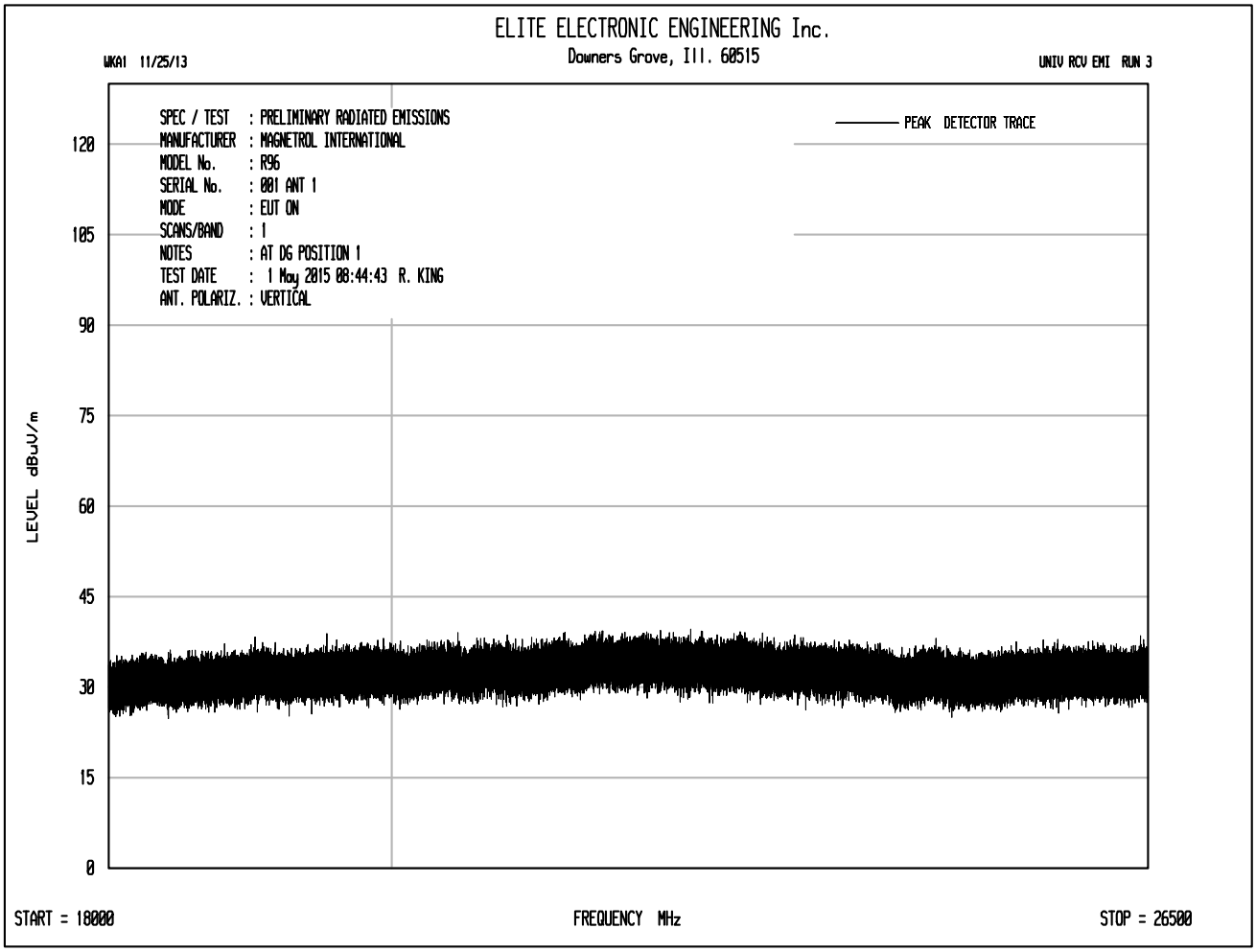

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WA1 11/25/13
UNIV RCV EXT RUN 1B
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R86
SERIAL No. : 001
MODE : Tx AT 6.2GHZ ANT. 2
SCANS/BAND : 1
NOTES : POSITION 5
TEST DATE : 29 Apr 2015 11:58:38 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000

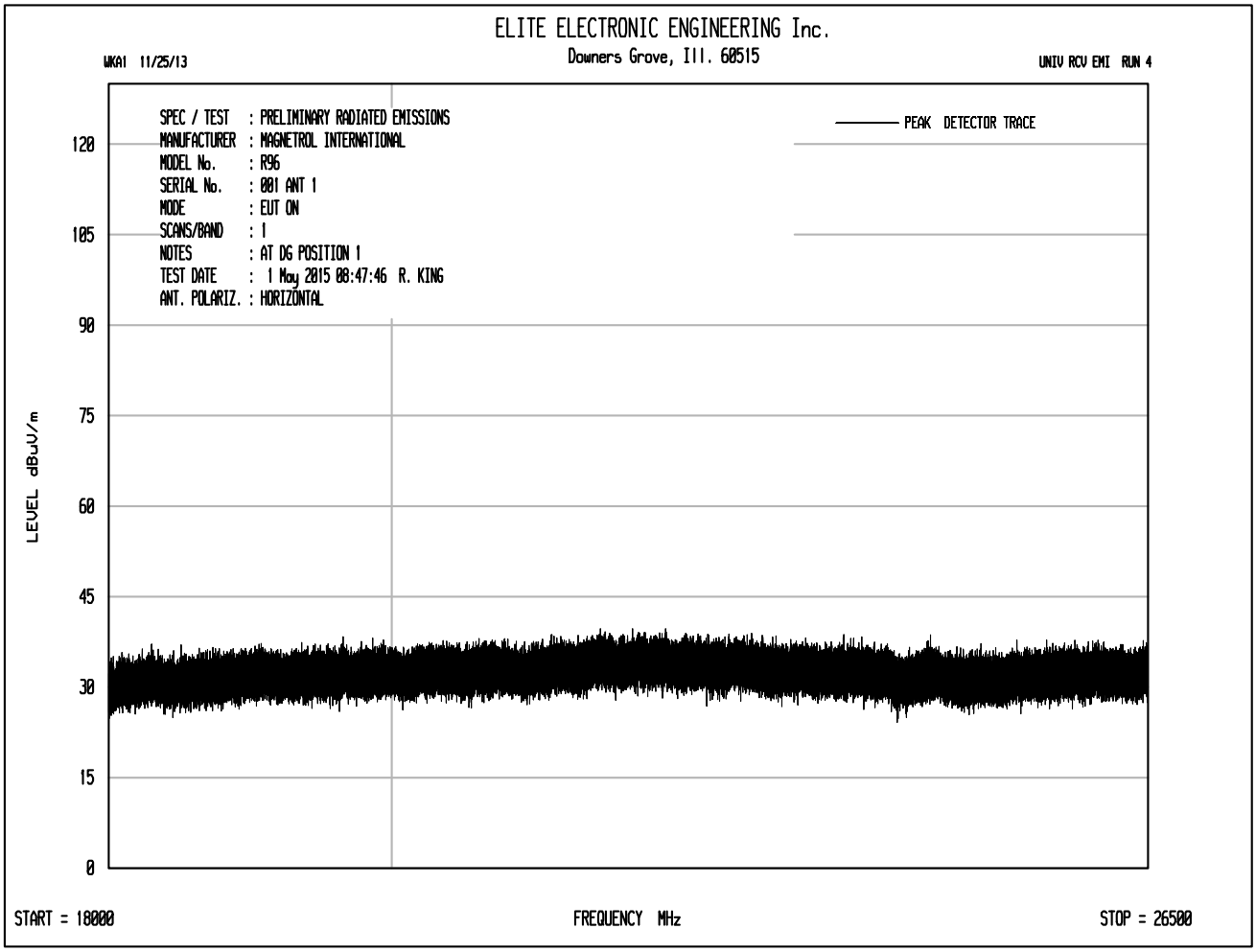

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 2
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 30 Apr 2015 09:29:24 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

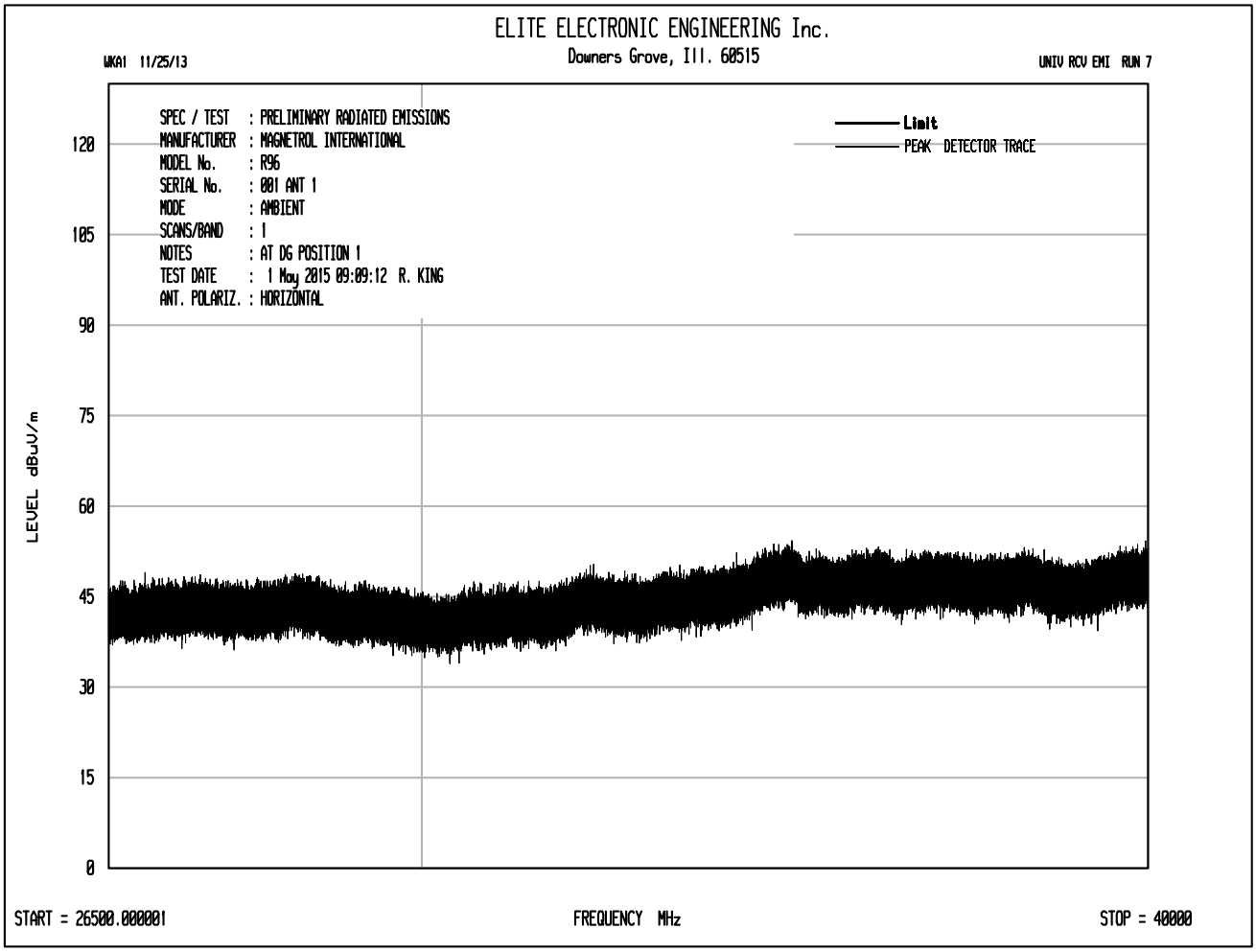

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 30 Apr 2015 09:32:03 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

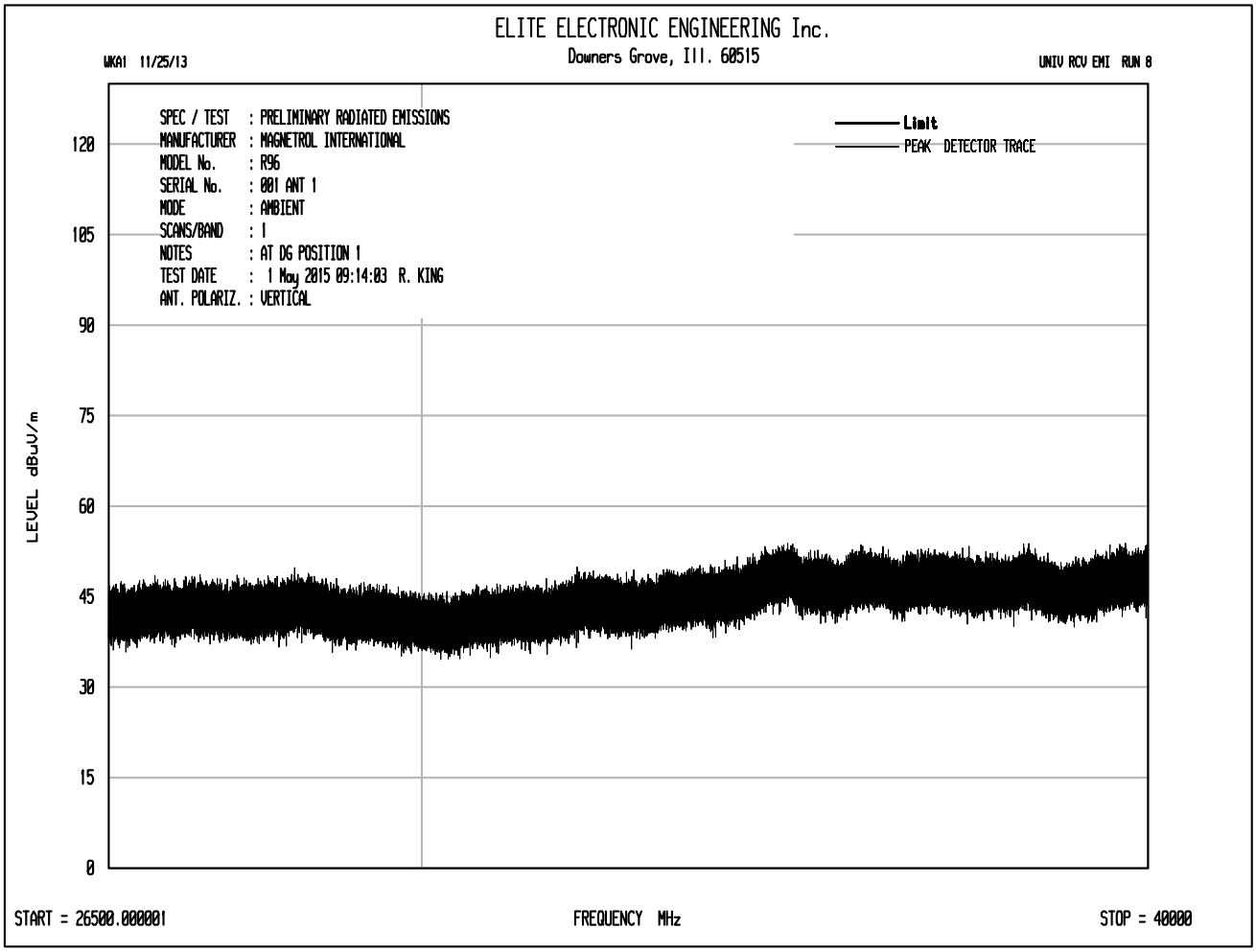

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 44
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 2
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 1 May 2015 13:28:18 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

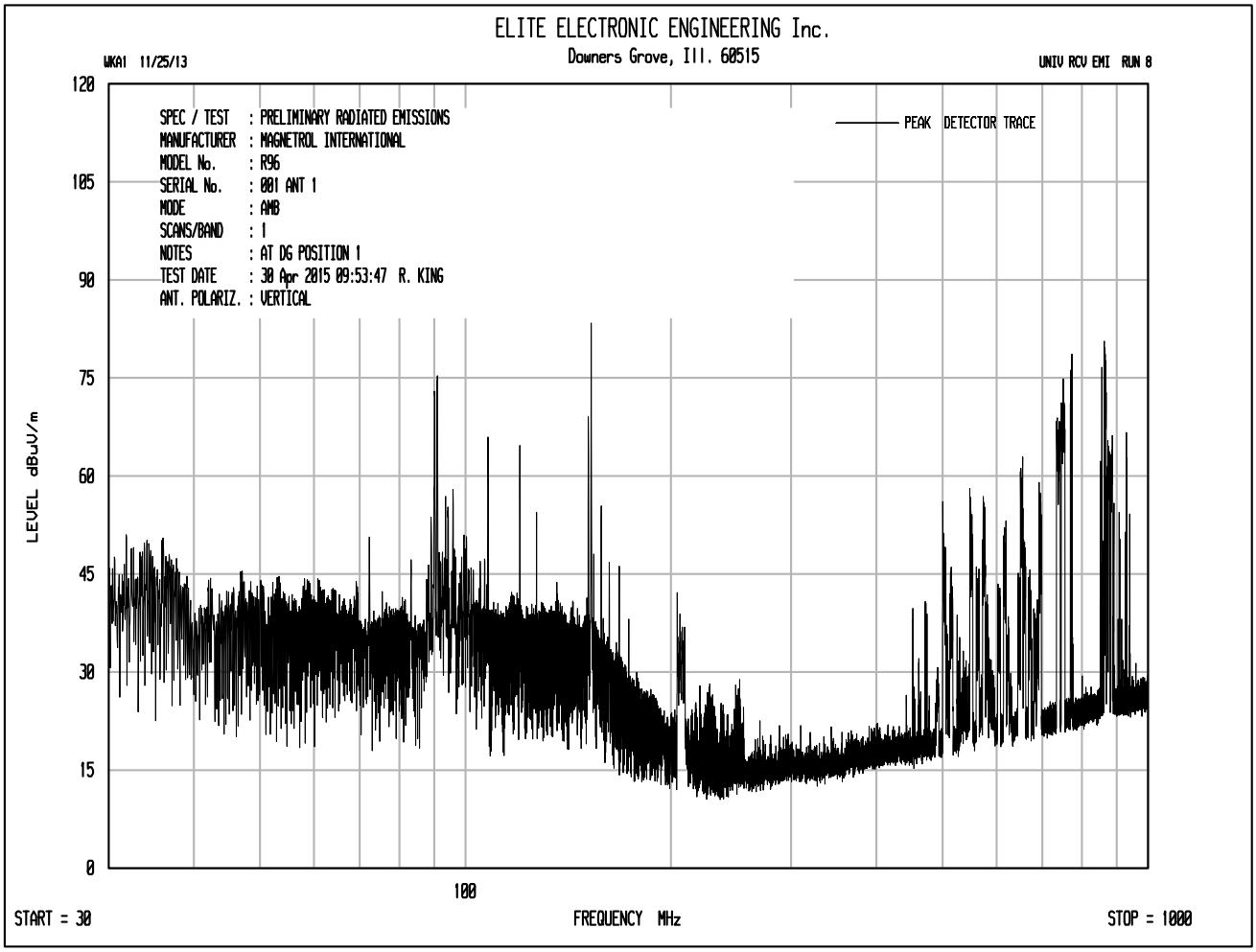

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKAI 11/25/13
UNIV RCV EMI RUN 43
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 2
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 1 May 2015 13:22:57 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000

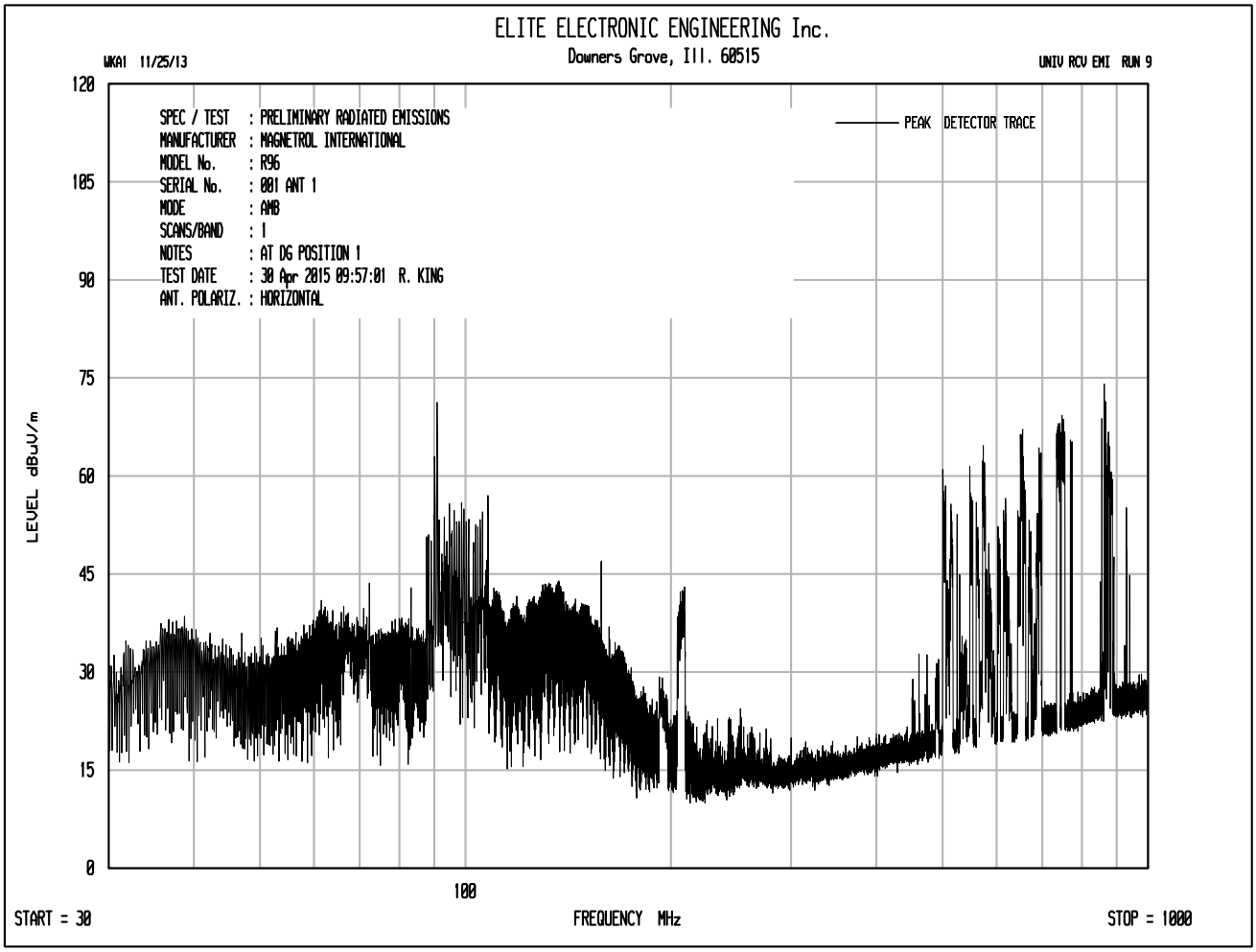

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : EUT ON
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 1 May 2015 08:44:43 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

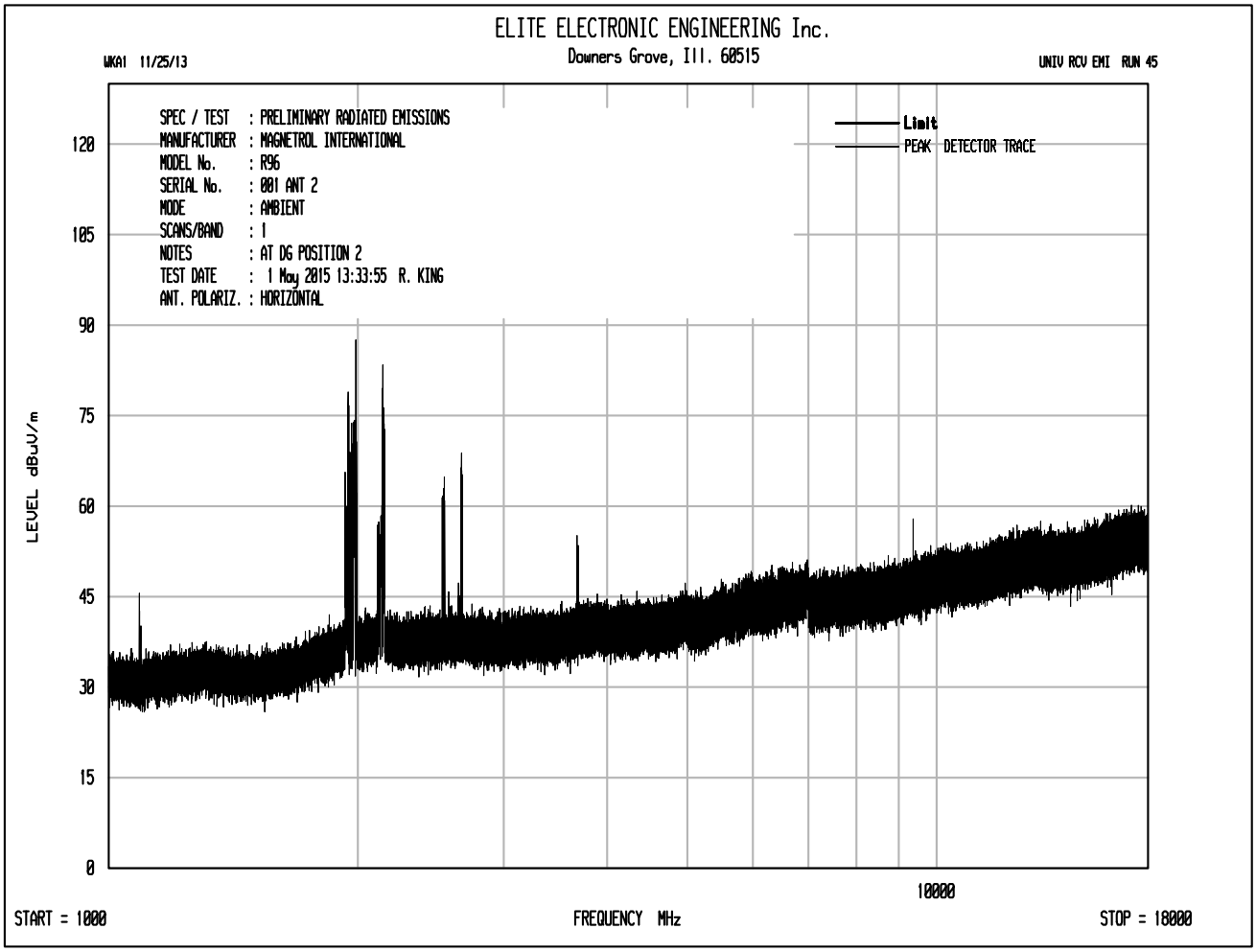

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 4
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : EUT ON
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 1 May 2015 08:47:46 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

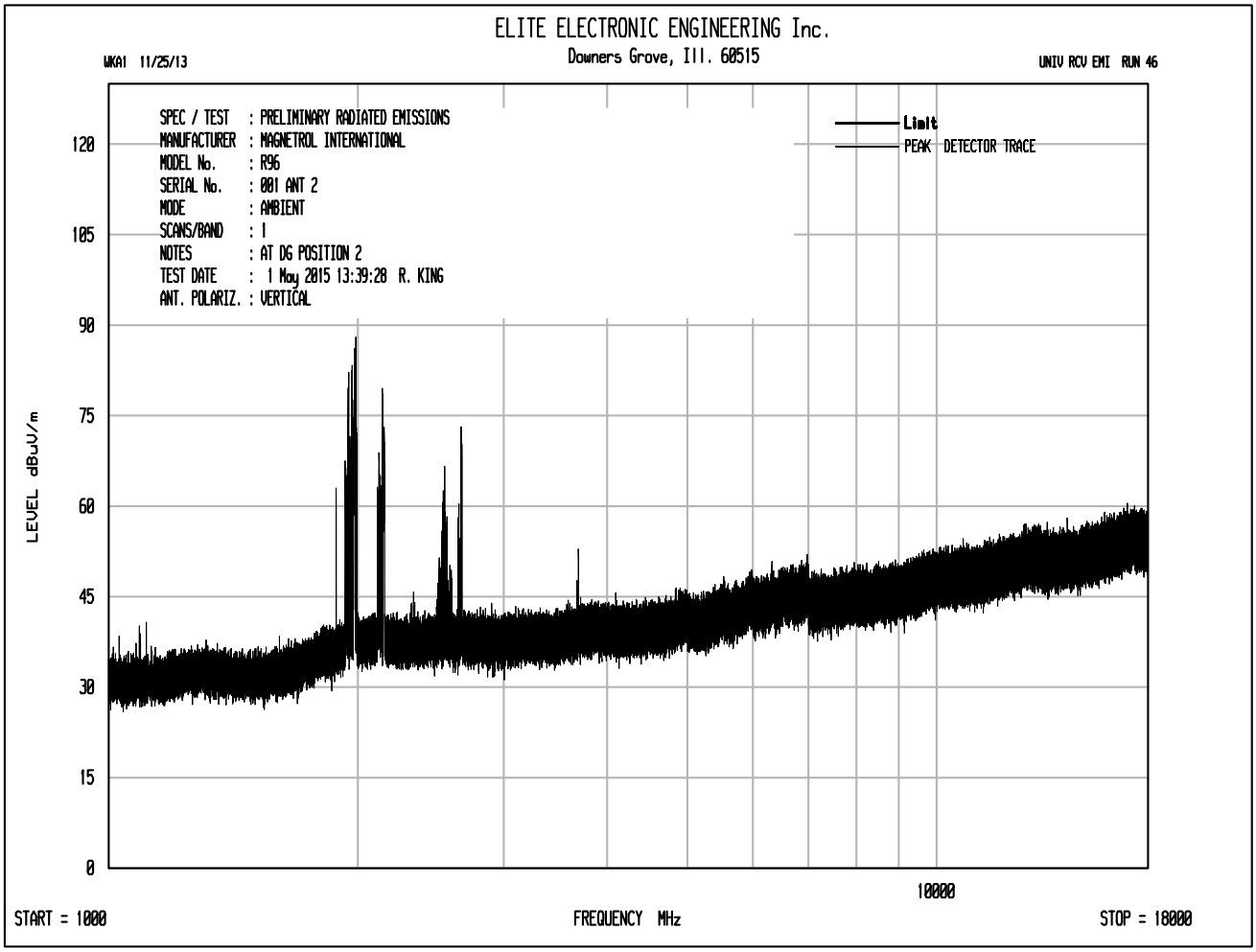

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 7
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 1 May 2015 09:09:12 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000

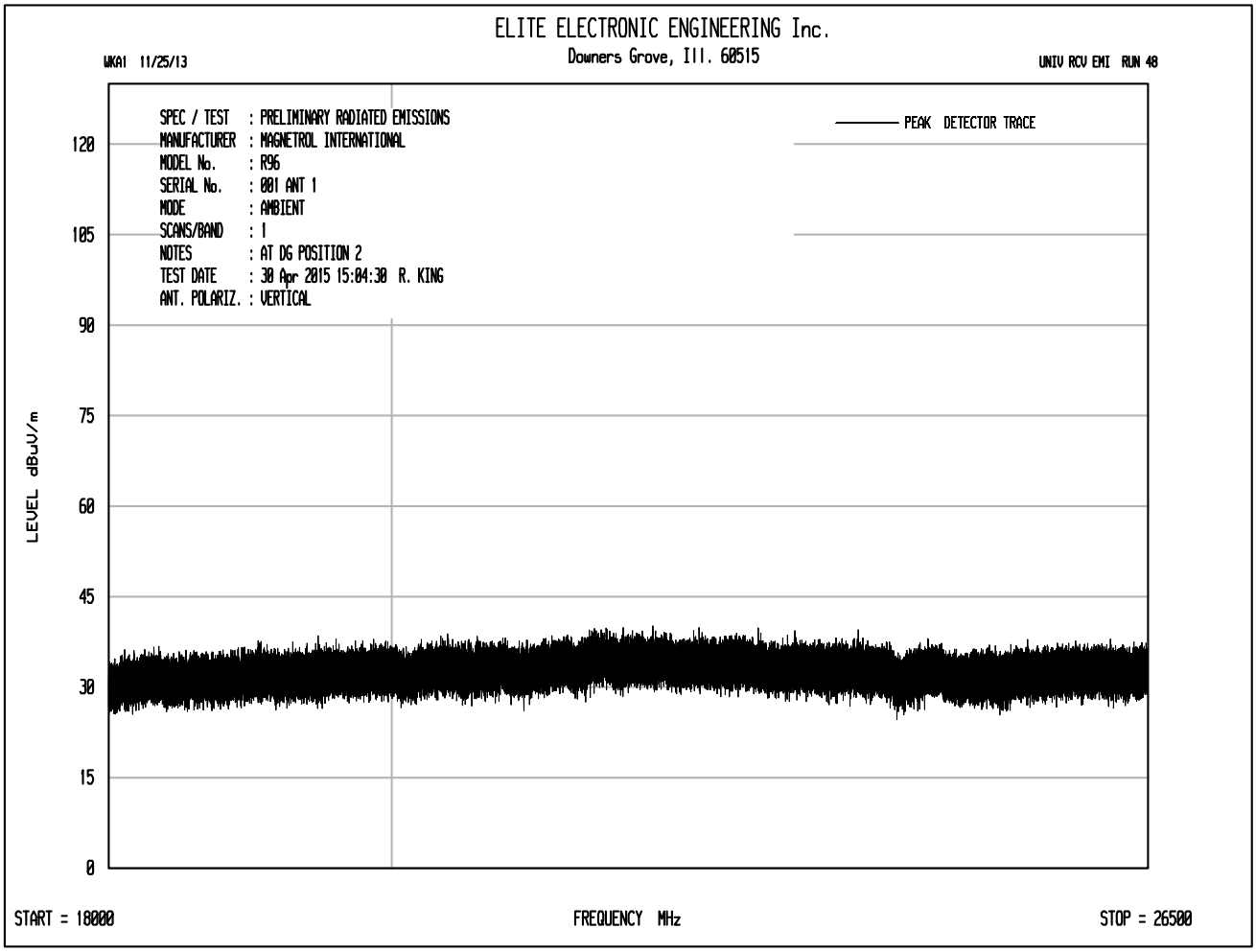

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 1 May 2015 09:14:03 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000

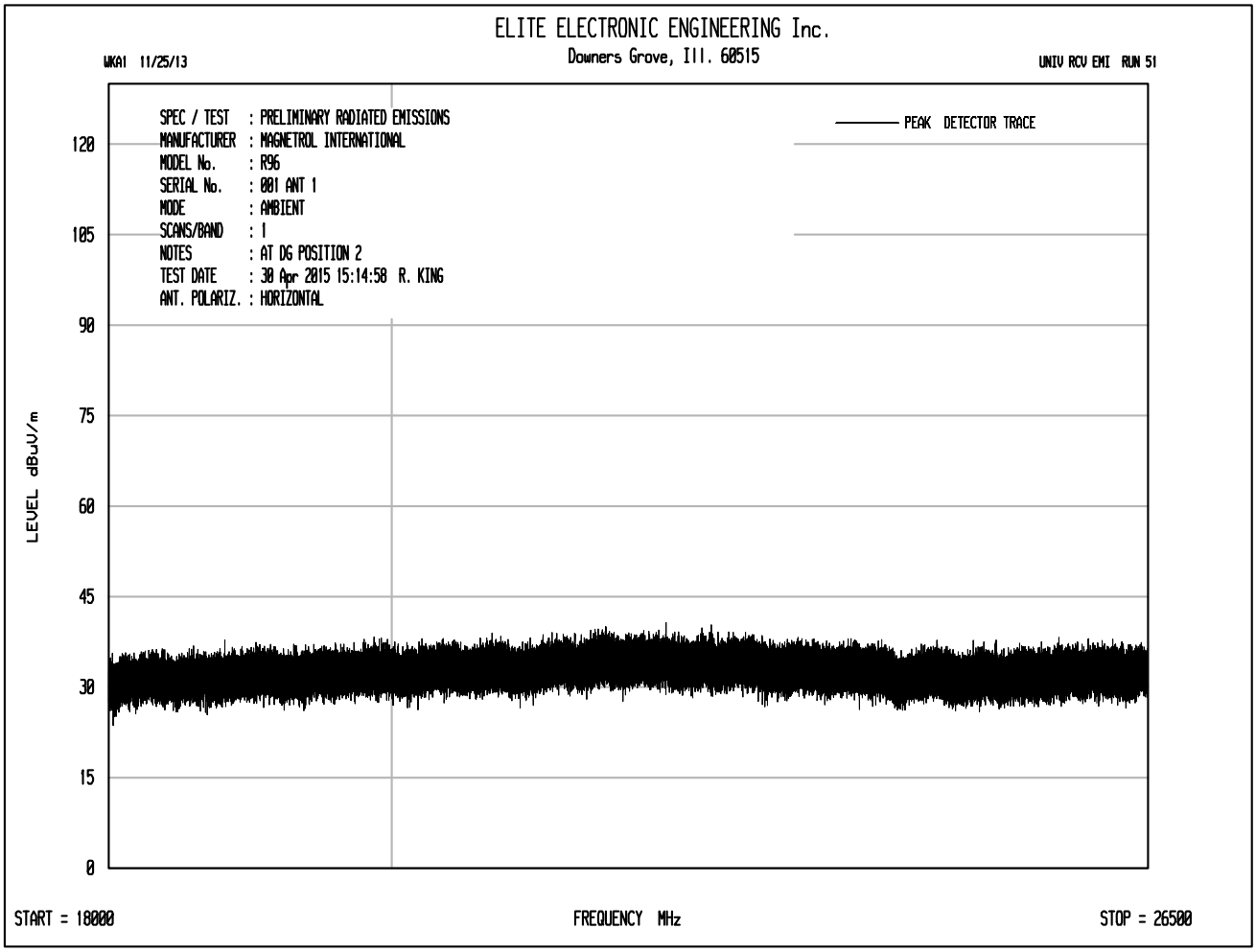

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : AMB
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 30 Apr 2015 09:53:47 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

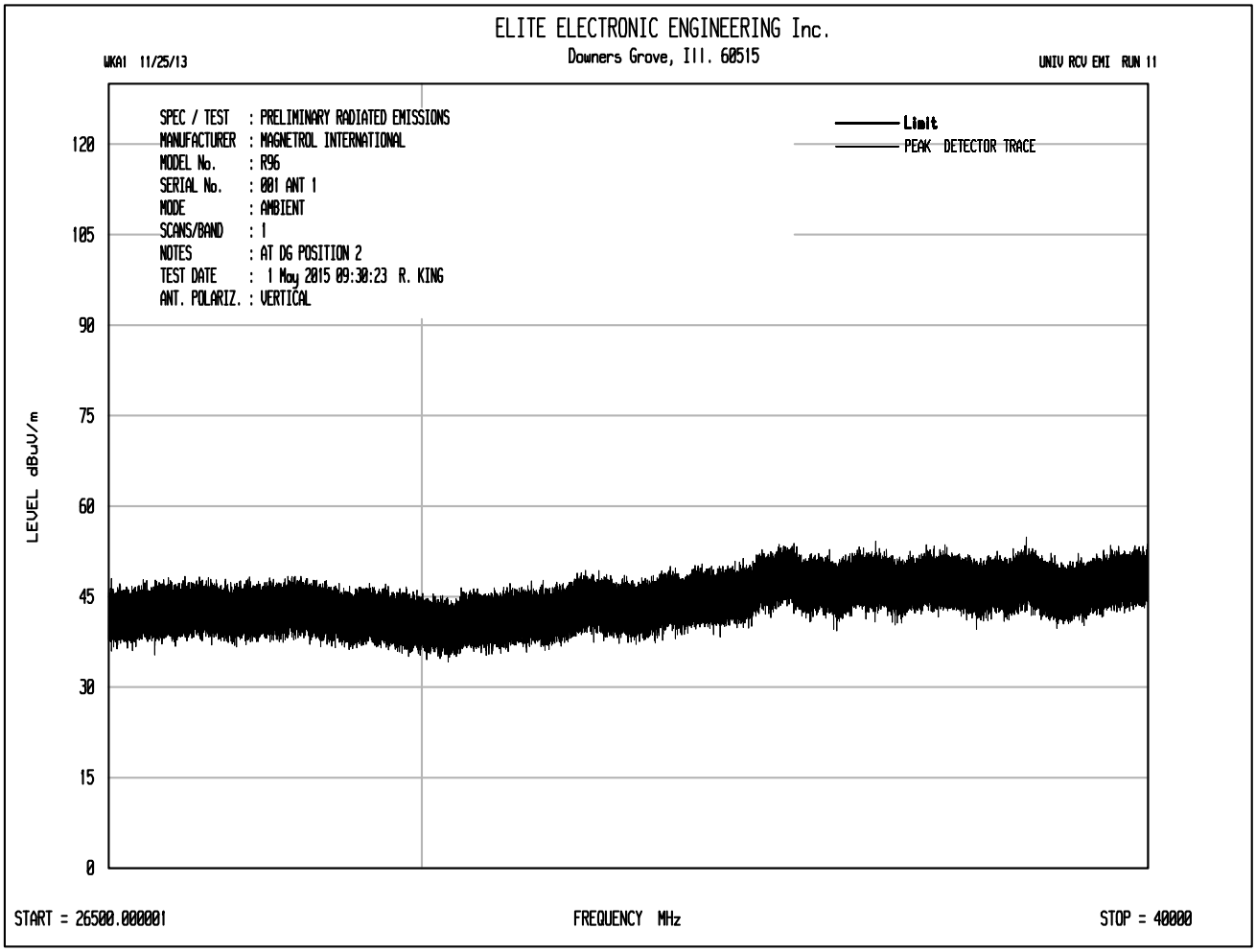

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : AMB
SCANS/BAND : 1
NOTES : AT DG POSITION 1
TEST DATE : 30 Apr 2015 09:57:01 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 45
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 2
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 2
TEST DATE : 1 May 2015 13:33:55 R. KING
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 46
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 2
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 2
TEST DATE : 1 May 2015 13:39:28 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 1000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 48
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 2
TEST DATE : 30 Apr 2015 15:04:30 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 51
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 2
TEST DATE : 30 Apr 2015 15:14:58 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 11
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MAGNETROL INTERNATIONAL
MODEL No. : R96
SERIAL No. : 001 ANT 1
MODE : AMBIENT
SCANS/BAND : 1
NOTES : AT DG POSITION 2
TEST DATE : 1 May 2015 09:30:23 R. KING
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500.000001
FREQUENCY MHz
STOP = 40000