Product Creation Studio

EKT3000K

EMC Test Report

Report No. PROU0030

Report Prepared By

NORTHWEST EMC

www.nwemc.com
1-888-EMI-CERT

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: September 19, 2011

Product Creation Studio

Model: EKT3000K

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Field Strength of Fundamental	FCC 15.249:2011	ANSI C63.10:2009	**Pass**
Duty Cycle	FCC 15.249:2011	ANSI C63.10:2009	**Pass**
Spurious Radiated Emissions	FCC 15.249:2011	ANSI C63.10:2009	**Pass**

Modifications made to the product
See the Modifications section of this report

Test Facility

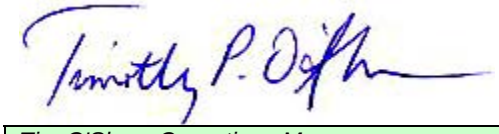
The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834D-1).

Approved By:



Tim O'Shea, Operations Manager

NVLAP Lab Code: 200630-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

Accreditations and Authorizations

FCC

Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.

NVLAP

Northwest EMC, Inc. is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. NVLAP is administered by the National Institute of Standards and Technology (NIST), an agency of the U.S. Commerce Department. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.

Industry Canada

Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1)*

CAB

Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.

Australia/New Zealand

The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).

Accreditations and Authorizations

VCCI

Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. *(Registration Numbers. - Hillsboro: C-1071, R-1025, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-3265, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).*

BSMI

Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017).

GOST

Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification

KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157, Brooklyn Park: US0175)*

VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.

SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/accreditations/

Northwest EMC Locations

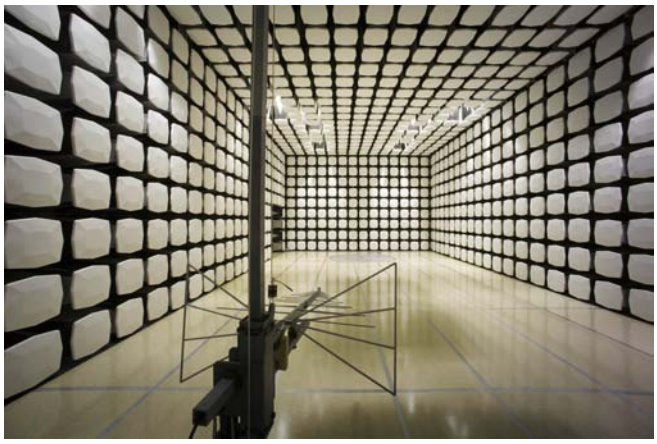
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

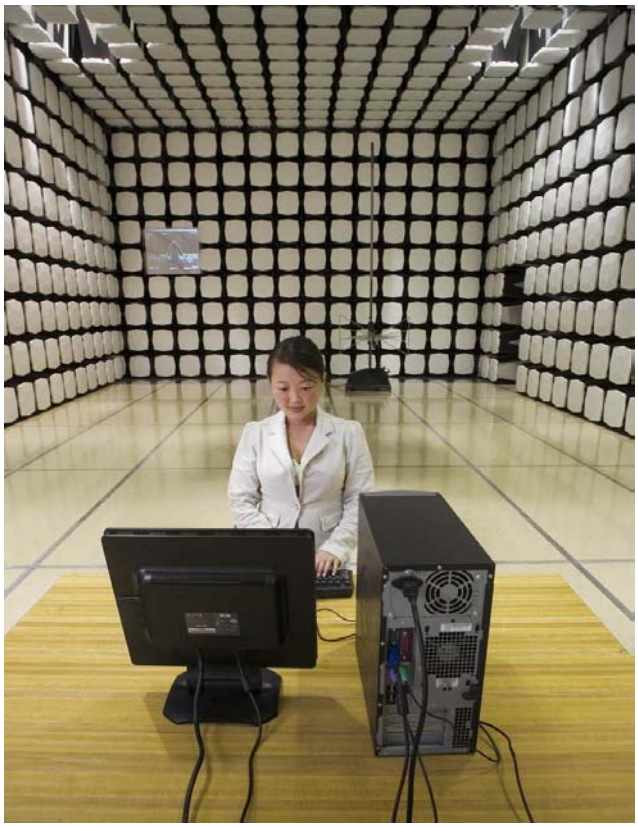
California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796





Party Requesting the Test

Company Name:	Product Creation Studio
Address:	425 Westlake Ave. N.
City, State, Zip:	Seattle, WA 98109
Test Requested By:	Keith Brown
Model:	EKT3000K
First Date of Test:	September 12, 2011
Last Date of Test:	September 12, 2011
Receipt Date of Samples:	August 25, 2011
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Low Power transceiver operating at 900 MHz.

Testing Objective:
To demonstrate compliance to FCC 15.249 specifications

CONFIGURATION 1 PROU0030

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Keyfob (Transmit)	Product Creation Studio	EKT3000K	None
Belt Clip (Transmit)	Product Creation Studio	EKT3000B	None

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	9/12/2011	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	9/12/2011	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	9/12/2011	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Field Strength of Fundamental

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Transmitting with 100% duty cycle

POWER SETTINGS INVESTIGATED

Battery

FREQUENCY RANGE INVESTIGATED

Start Frequency	905 MHz	Stop Frequency	905 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
EV01 Cables	N/A	Bilog Cables	EVA	6/28/2011	12
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/28/2011	12
Antenna, Bilog	Teseq	CBL 6141B	AXR	11/29/2010	12
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	3/2/2011	12
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	3/2/2011	12
Antenna, Horn	ETS	3160-08	AHV	NCR	0
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	6/28/2011	12
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/28/2011	12
Antenna, Horn	ETS	3115	AIZ	1/24/2011	24
High Pass Filter 1.2 - 18 GHz	Micro-Tronics	HPM50108	HFV	7/9/2010	24
Spectrum Analyzer	Agilent	E4446A	AAQ	6/24/2011	12

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and while set at the middle channel. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT and EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009).

NORTHWEST EMC

Field Strength of Fundamental

PSA 2011.05.11
EMI 2008.1.9

EUT:	EKT3000K	Work Order:	PROU0030
Serial Number:	None	Date:	09/12/11
Customer:	Product Creation Studio	Temperature:	24.1°C
Attendees:	None	Humidity:	46%
Project:	None	Barometric Pres.:	1019
Tested by:	Ethan Schoonover	Power: Battery	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.249:2011	ANSI C63.10:2009

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

None

EUT OPERATING MODES

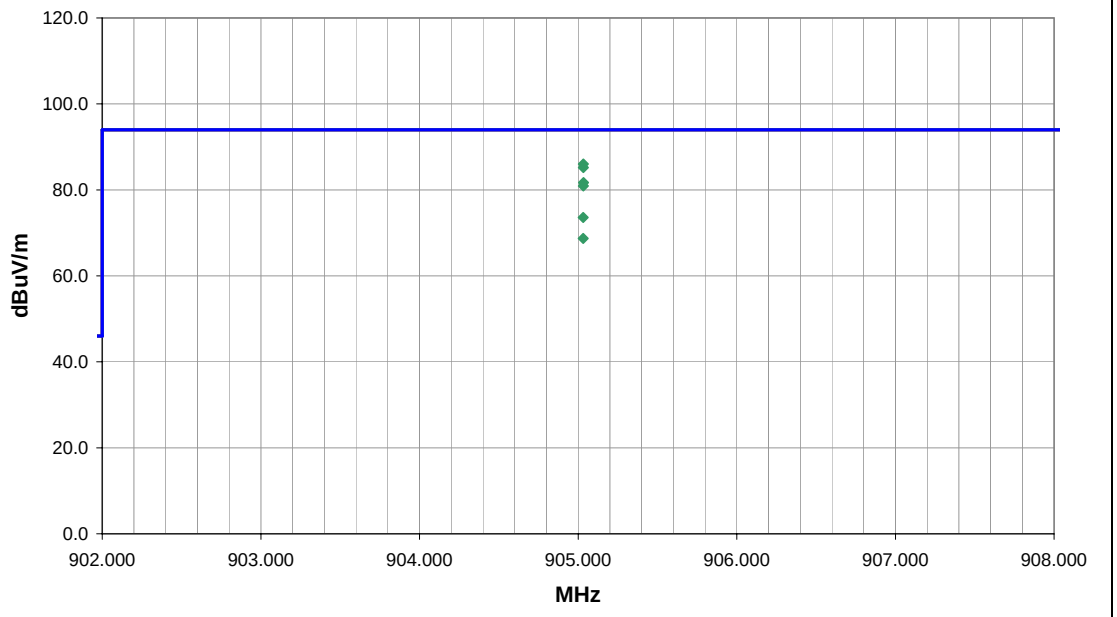
Transmitting with 100% duty cycle

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4
Configuration #	1
Results	Pass

Signature



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
905.033	58.4	27.6	115.0	1.0	3.0	0.0	H-Bilog	QP	0.0	86.0	94.0	-8.0	EUT Horz
905.033	57.6	27.6	151.0	1.0	3.0	0.0	H-Bilog	QP	0.0	85.2	94.0	-8.8	EUT Onside
905.034	54.1	27.6	81.0	1.4	3.0	0.0	V-Bilog	QP	0.0	81.7	94.0	-12.3	EUT Onside
905.033	53.3	27.6	126.0	1.3	3.0	0.0	V-Bilog	QP	0.0	80.9	94.0	-13.1	EUT Vert
905.032	46.0	27.6	0.0	2.4	3.0	0.0	H-Bilog	QP	0.0	73.6	94.0	-20.4	EUT Vert
905.032	41.1	27.6	337.0	1.0	3.0	0.0	V-Bilog	QP	0.0	68.7	94.0	-25.3	EUT Horz

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Bilog	Teseq	CBL 6141B	AXR	11/29/2010	12
EV01 Cables	N/A	Bilog Cables	EVA	6/28/2011	12
Spectrum Analyzer	Agilent	E4446A	AAQ	6/24/2011	12

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

To determine average emission measurements, a duty cycle correction factor per 15.35(c) was utilized:

Duty Cycle = On time/100 milliseconds (or the period, whichever is less)

Where “On time” = N1L1 +N2L2 +….

Where N1 is the number of type 1 pulses, L1 is length of type 1 pulses, N2 is the number of type 2 pulses, L2 is the length of type 2 pulses, etc.

Therefore, Duty Cycle = (N1L1 +N2L2 +…)/100mS or T, whichever is less, where T is the period of the pulse train.

The measured values for the EUT’s pulse train are as follows:

Period = 400 mSec

Pulsewidth of Pulse= 6.28 mSec

Number of Pulses = 1

Duty Cycle = 20 log [6.28/100]= -24 dB

The duty cycle correction factor of –24 dB was added to the average readings to determine the average levels. The transmitter was tested in a constant transmit mode for spurious emissions and field strength of the fundamental.
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NORTHWEST EMC

DUTY CYCLE

XMit 2010.01.14

EUT:	EKT3000K			Work Order:	PROU0030
Serial Number:	None			Date:	09/12/11
Customer:	Product Creation Studio			Temperature:	24.1°C
Attendees:	None			Humidity:	46%
Project:	None			Barometric Pres.:	1019
Tested by:	Ethan Schoonover	Power:	Battery	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.249:2011	ANSI C63.10:2009

COMMENTS

Typical transmission: Duty Cycle is = (6.28 ms)/100ms = 0.0628

DEVIATIONS FROM TEST STANDARD

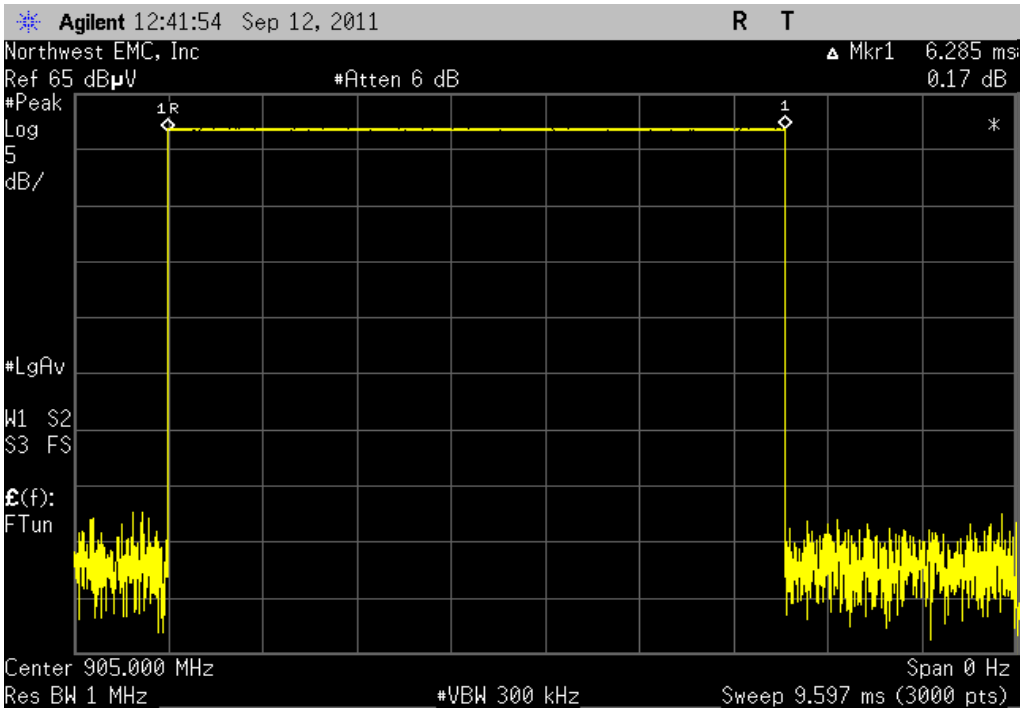
No Deviations

Configuration #	1	Signature

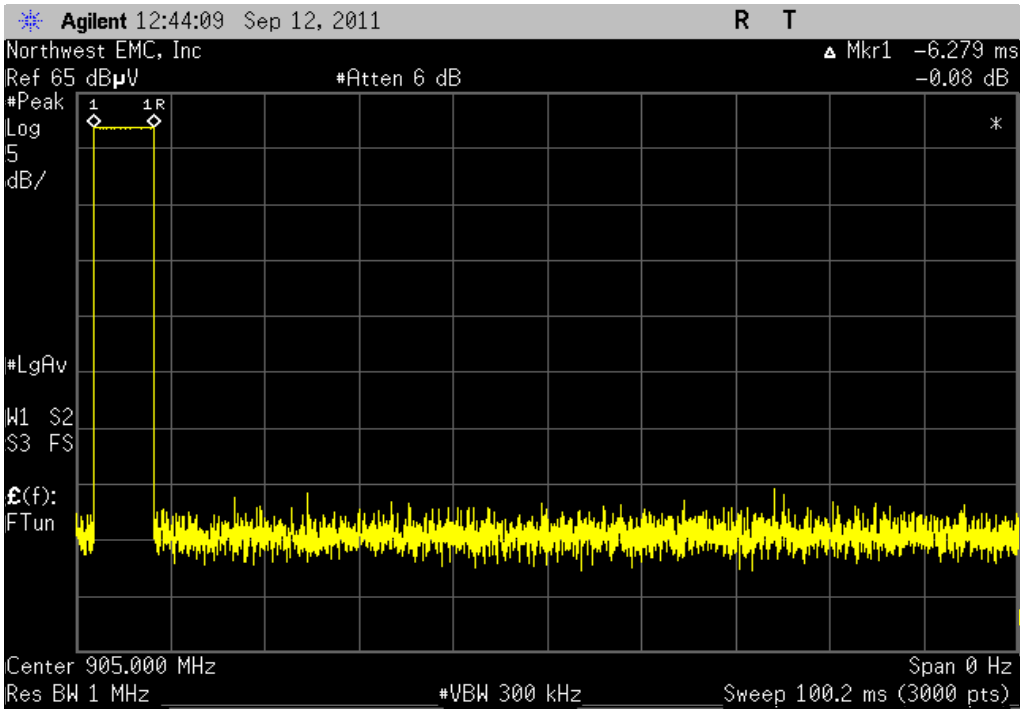
	Value	Limit	Results
Pulse Width 1	6.28 ms	N/A	N/A
100 ms	6.28 ms	N/A	N/A
Period	418.8 ms	N/A	N/A

DUTY CYCLE

Pulse Width 1					
Result:	N/A	**Value:**	6.28 ms	**Limit:**	N/A

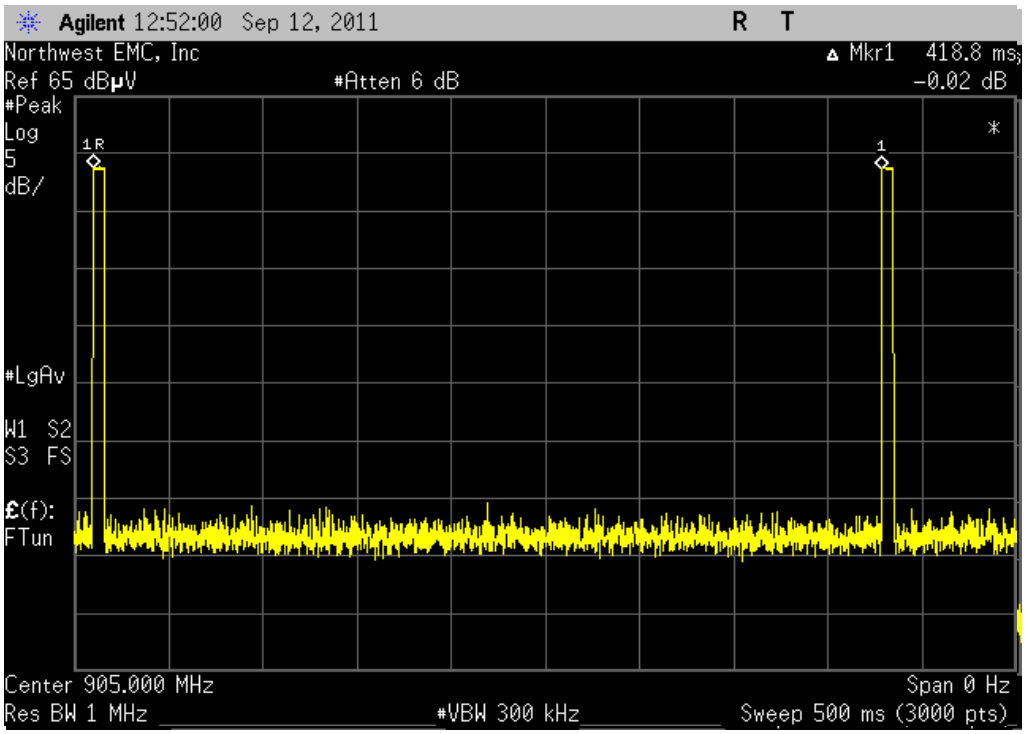


100 ms					
Result:	N/A	**Value:**	6.28 ms	**Limit:**	N/A



DUTY CYCLE

Period					
Result:	N/A	**Value:**	418.8 ms	**Limit:**	N/A



SPURIOUS RADIATED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Transmitting with 100% duty cycle

POWER SETTINGS INVESTIGATED

Battery

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	12.4 GHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	RLC Electronics	F-100-4000-5-R (HPF>4GHz up to 18GHz)	HFD	7/3/2010	24
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	3/2/2011	12
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	3/2/2011	12
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	6/28/2011	12
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/28/2011	12
Antenna, Horn	ETS	3115	AIZ	1/24/2011	24
EV01 Cables	N/A	Bilog Cables	EVA	6/28/2011	12
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/28/2011	12
Antenna, Bilog	Teseq	CBL 6141B	AXR	11/29/2010	12
Spectrum Analyzer	Agilent	E4446A	AAQ	6/24/2011	12

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2011.05.11
EMI 2008.1.9

EUT:	EKT3000K			Work Order:	PROU0030
Serial Number:	None			Date:	09/12/11
Customer:	Product Creation Studio			Temperature:	24.1°C
Attendees:	None			Humidity:	46%
Project:	None			Barometric Pres.:	1019
Tested by:	Ethan Schoonover	Power:	Battery	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.249:2011	ANSI C63.10:2009

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

None

EUT OPERATING MODES

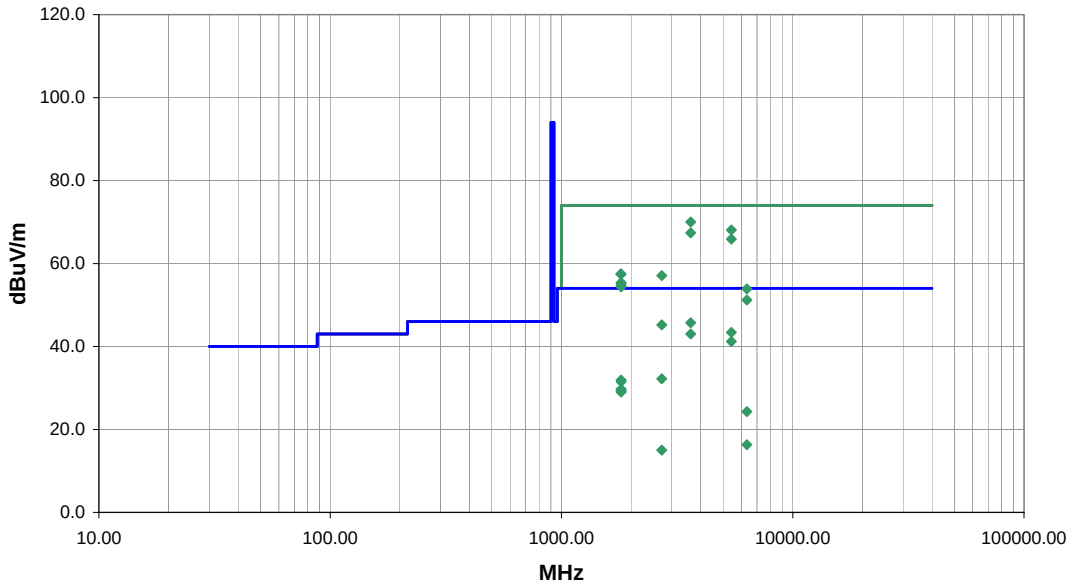
Transmitting with 100% duty cycle

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	3
Configuration #	1
Results	Pass

Signature



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Duty Cycle Correction Factor	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
3620.103	64.3	5.7	-1.0	1.3	0.0	0.0	H-Horn	PK	0.0	70.0	74.0	-4.0	EUT On Side
5430.120	57.4	10.7	25.0	1.0	0.0	0.0	H-Horn	PK	0.0	68.1	74.0	-5.9	EUT On Side
3620.087	61.7	5.7	346.0	1.0	0.0	0.0	V-Horn	PK	0.0	67.4	74.0	-6.6	EUT On Side
5430.117	55.2	10.7	99.0	1.0	0.0	0.0	V-Horn	PK	0.0	65.9	74.0	-8.1	EUT On Side
3620.123	64.0	5.7	-1.0	1.3	24.0	0.0	H-Horn	AV	0.0	45.7	54.0	-8.3	EUT On Side
5430.170	56.7	10.7	25.0	1.0	24.0	0.0	H-Horn	AV	0.0	43.4	54.0	-10.6	EUT On Side
3620.127	61.3	5.7	346.0	1.0	24.0	0.0	V-Horn	AV	0.0	43.0	54.0	-11.0	EUT On Side
5430.173	54.5	10.7	99.0	1.0	24.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	EUT On Side
1810.003	58.6	-1.1	92.0	1.0	0.0	0.0	H-Horn	PK	0.0	57.5	74.0	-16.5	EUT Horz.
1810.067	58.5	-1.1	157.0	1.3	0.0	0.0	H-Horn	PK	0.0	57.4	74.0	-16.6	EUT On Side
2715.010	53.4	3.7	25.0	1.0	0.0	0.0	H-Horn	PK	0.0	57.1	74.0	-16.9	EUT On Side
1810.130	56.5	-1.1	62.0	1.6	0.0	0.0	V-Horn	PK	0.0	55.4	74.0	-18.6	EUT Horz.
1810.083	56.3	-1.1	124.0	1.6	0.0	0.0	V-Horn	PK	0.0	55.2	74.0	-18.8	EUT On Side
1809.997	55.7	-1.1	77.0	1.6	0.0	0.0	V-Horn	PK	0.0	54.6	74.0	-19.4	EUT Vert.
1810.083	55.5	-1.1	20.0	1.3	0.0	0.0	H-Horn	PK	0.0	54.4	74.0	-19.6	EUT Vert.
6335.250	40.2	13.7	0.0	2.0	0.0	0.0	H-Horn	PK	0.0	53.9	74.0	-20.1	EUT On Side
2715.100	52.5	3.7	25.0	1.0	24.0	0.0	H-Horn	AV	0.0	32.2	54.0	-21.8	EUT On Side
1810.077	57.0	-1.1	92.0	1.0	24.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	EUT Horz.
1810.080	56.6	-1.1	157.0	1.3	24.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	EUT On Side
6335.150	37.5	13.7	223.0	1.4	0.0	0.0	V-Horn	PK	0.0	51.2	74.0	-22.8	EUT On Side
1810.080	54.8	-1.1	77.0	1.6	24.0	0.0	V-Horn	AV	0.0	29.7	54.0	-24.3	EUT Vert.
1810.080	54.6	-1.1	20.0	1.3	24.0	0.0	H-Horn	AV	0.0	29.5	54.0	-24.5	EUT Vert.
1810.080	54.3	-1.1	62.0	1.6	24.0	0.0	V-Horn	AV	0.0	29.2	54.0	-24.8	EUT Horz.
1810.090	54.1	-1.1	124.0	1.6	24.0	0.0	V-Horn	AV	0.0	29.0	54.0	-25.0	EUT On Side
2715.147	41.5	3.7	28.0	1.4	0.0	0.0	V-Horn	PK	0.0	45.2	74.0	-28.8	EUT On Side
6335.217	34.6	13.7	0.0	2.0	24.0	0.0	H-Horn	AV	0.0	24.3	54.0	-29.7	EUT On Side
6335.207	26.6	13.7	223.0	1.4	24.0	0.0	V-Horn	AV	0.0	16.3	54.0	-37.7	EUT On Side
2715.107	35.3	3.7	28.0	1.4	24.0	0.0	V-Horn	AV	0.0	15.0	54.0	-39.0	EUT On Side