



Whites Electronics, Inc.

Bullseye TRX

FCC 15.209:2013

Report #: WHIT0047



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

Last Date of Test: November 22, 2013
Whites Electronics, Inc.
Model: Bullseye TRX

Emissions

Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.209:2013	ANSI C63.10:2009	Pass
Field of Strength Fundamental	FCC 15.209:2013	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Kyle Holgate, 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 HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

KCC / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Hong Kong

OFTA – Recognized by OFTA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

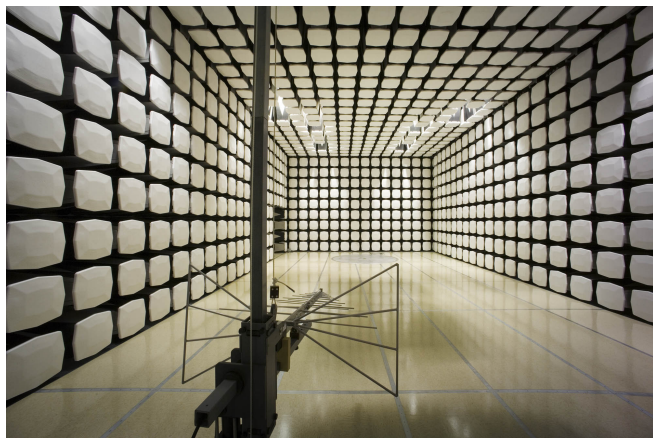
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is listed below. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	3.80	-3.80
AC Powerline Conducted Emissions (dB)	2.94	-2.94



Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs NC01-05, SU02, SU07 19201 120 th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1
NVLAP				
NVLAP Lab Code: 200630-0	NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200629-0



Client and Equipment Under Test (EUT) Information

Company Name:	Whites Electronics, Inc.
Address:	1011 Pleasant Valley Road
City, State, Zip:	Sweet Home, OR 97386
Test Requested By:	Charles Tucharadt
Model:	Bullseye TRX
First Date of Test:	November 22, 2013
Last Date of Test:	November 22, 2013
Receipt Date of Samples:	November 15, 2013
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Hand held localizing metal detector utilizing a 12 kHz inductive radio and a single integral antenna.
Testing Objective:
To demonstrate compliance of the inductive portion of the device to FCC Part 15.209 specifications



CONFIGURATIONS

Configuration WHIT0047- 1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Metal Detector	White's Electronics, Inc	Bullseye TRX	None

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	11/22/2013	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	11/22/2013	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

On, typical detection mode.

POWER SETTINGS INVESTIGATED

Internal Battery

CONFIGURATIONS INVESTIGATED

WHIT0047 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	9 kHz	Stop Frequency	18 kHz
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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
Spectrum Analyzer	Agilent	E4443A	AFB	1/31/2012	24 mo
EV11 Cables	N/A	3m Test Distance Cables	EVM	3/13/2013	12 mo
Antenna, Loop	EMCO	6502	AOA	6/28/2011	36 mo

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

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and orientation in 3 orthogonal planes, the EUT and/or associated antenna is positioned in 3 orthogonal planes (per ANSI C63.10). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.

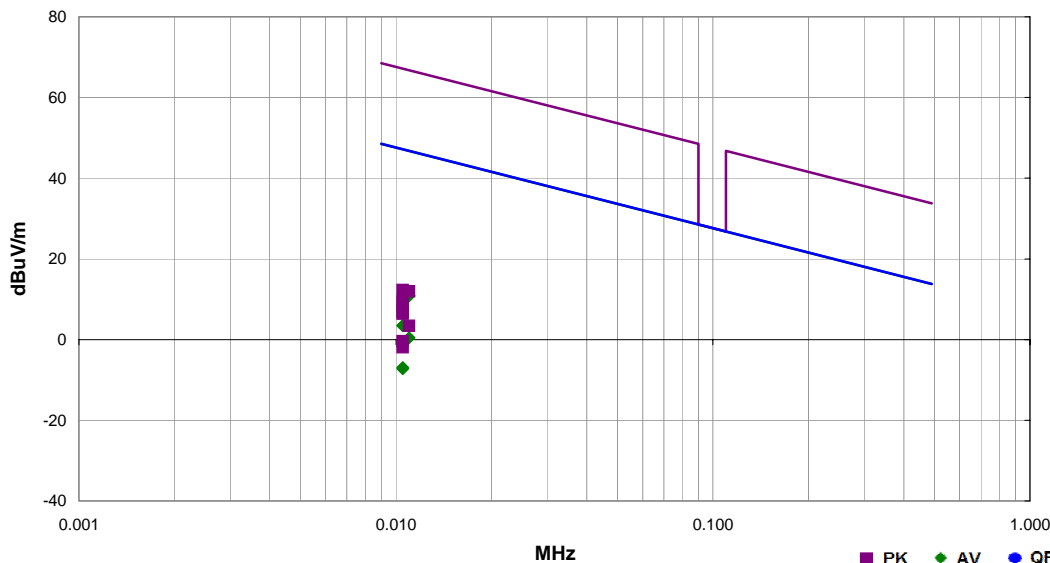
As outlined in 15.209(e) and 15.31(f)(2), measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

If there are no detectable emissions above the noise floor, the data included will show noise floor measurements for reference only.

Work Order:	WHIT0047	Date:	11/22/13	
Project:	None	Temperature:	22.7 °C	
Job Site:	EV11	Humidity:	23% RH	
Serial Number:	None	Barometric Pres.:	1032 mbar	
EUT:	Bullseye TRX			
Configuration:	1			
Customer:	Whites Electronics, Inc.			
Attendees:	None			
EUT Power:	Internal Battery			
Operating Mode:	On, typical detection mode.			
Deviations:	None			
Comments:	See comments below for EUT orientation.			

Test Specifications	Test Method
FCC 15.209:2013	ANSI C63.10:2009

Run #	5	Test Distance (m)	3	Antenna Height(s)	1m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.011	72.2	18.6	1.0	277.0	3.0	0.0	See Comments	AV	-80.0	10.8	46.8	-35.9	EUT on Side, Antenna Perp to gnd Para to EUT
0.011	72.2	18.9	1.0	273.0	3.0	0.0	See Comments	AV	-80.0	11.1	47.2	-36.1	EUT Horizontal, Antenna Perp to gnd Para to EUT
0.011	68.4	18.9	1.0	186.0	3.0	0.0	See Comments	AV	-80.0	7.3	47.2	-39.9	EUT on Side, Antenna Perp to gnd Perp to EUT
0.011	68.3	18.9	1.0	356.0	3.0	0.0	See Comments	AV	-80.0	7.2	47.2	-40.0	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.011	64.6	18.9	1.0	277.0	3.0	0.0	See Comments	AV	-80.0	3.5	47.2	-43.7	EUT Vertical, Antenna Para to gnd Perp to EUT
0.011	64.6	18.9	1.0	290.0	3.0	0.0	See Comments	AV	-80.0	3.5	47.2	-43.7	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.011	61.8	18.6	1.0	260.0	3.0	0.0	See Comments	AV	-80.0	0.4	46.8	-46.3	EUT Vertical, Antenna Perp to gnd Para to EUT
0.011	54.2	18.9	1.0	282.0	3.0	0.0	See Comments	AV	-80.0	-6.9	47.2	-54.1	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.011	53.9	18.9	1.0	212.0	3.0	0.0	See Comments	AV	-80.0	-7.2	47.2	-54.4	EUT on Side, Antenna Para to gnd Perp to EUT
0.011	73.3	18.6	1.0	277.0	3.0	0.0	See Comments	PK	-80.0	11.9	66.8	-54.8	EUT on Side, Antenna Perp to gnd Para to EUT
0.011	73.4	18.9	1.0	273.0	3.0	0.0	See Comments	PK	-80.0	12.3	67.2	-54.9	EUT Horizontal, Antenna Perp to gnd Para to EUT
0.011	70.4	18.9	1.0	186.0	3.0	0.0	See Comments	PK	-80.0	9.3	67.2	-57.9	EUT on Side, Antenna Perp to gnd Perp to EUT
0.011	70.3	18.9	1.0	356.0	3.0	0.0	See Comments	PK	-80.0	9.2	67.2	-58.0	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.011	67.9	18.9	1.0	290.0	3.0	0.0	See Comments	PK	-80.0	6.8	67.2	-60.4	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.011	67.5	18.9	1.0	277.0	3.0	0.0	See Comments	PK	-80.0	6.4	67.2	-60.8	EUT Vertical, Antenna Para to gnd Perp to EUT
0.011	64.8	18.6	1.0	260.0	3.0	0.0	See Comments	PK	-80.0	3.4	66.8	-63.3	EUT Vertical, Antenna Perp to gnd Para to EUT
0.011	60.7	18.9	1.0	282.0	3.0	0.0	See Comments	PK	-80.0	-0.4	67.2	-67.6	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.011	59.2	18.9	1.0	212.0	3.0	0.0	See Comments	PK	-80.0	-1.9	67.2	-69.1	EUT on Side, Antenna Para to gnd Perp to EUT

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. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

On, typical detection mode.

POWER SETTINGS INVESTIGATED

Internal Battery

CONFIGURATIONS INVESTIGATED

WHIT0047 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	9 kHz	Stop Frequency	490 kHz
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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
Spectrum Analyzer	Agilent	E4443A	AFB	1/31/2012	24 mo
EV11 Cables	N/A	3m Test Distance Cables	EVM	3/13/2013	12 mo
Antenna, Loop	EMCO	6502	AOA	6/28/2011	36 mo

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

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and orientation in 3 orthogonal planes, the EUT and/or associated antenna is positioned in 3 orthogonal planes (per ANSI C63.10). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.


For measurements below 30 MHz, as outlined in 15.209(e) and 15.31(f)(2), measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

If there are no detectable emissions above the noise floor, the data included will show noise floor measurements for reference only.



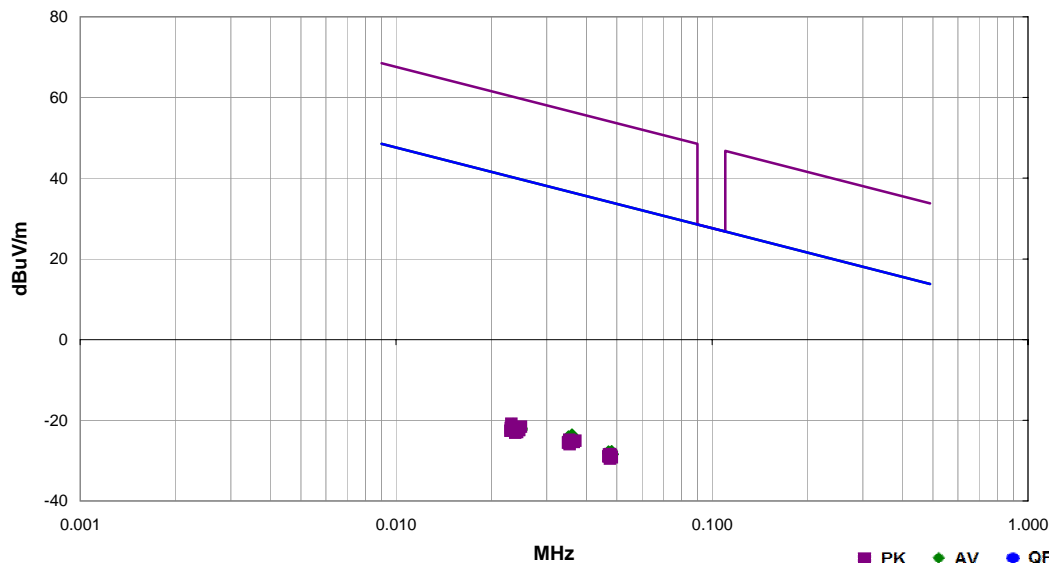
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2012.12.14
EmiR5 2013.08.26

Work Order:	WHIT0047	Date:	11/22/13	
Project:	None	Temperature:	22.7 °C	
Job Site:	EV11	Humidity:	23% RH	
Serial Number:	None	Barometric Pres.:	1032 mbar	
EUT:	Bullseye TRX			
Configuration:	1			
Customer:	Whites Electronics, Inc.			
Attendees:	None			
EUT Power:	Internal Battery			
Operating Mode:	On, typical detection mode.			
Deviations:	None			
Comments:	See comments below for EUT orientation.			

Test Specifications	Test Method
FCC 15.209:2013	ANSI C63.10:2009

Run #	6	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.036	43.6	12.8	1.0	51.0	3.0	0.0	See Comments	AV	-80.0	-23.6	36.4	-60.0	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.035	43.0	12.9	1.0	76.0	3.0	0.0	See Comments	AV	-80.0	-24.1	36.7	-60.7	EUT Vertical, Antenna Para to gnd Perp to EUT
0.036	42.6	12.9	1.0	273.0	3.0	0.0	See Comments	AV	-80.0	-24.5	36.5	-61.1	EUT on Side, Antenna Para to gnd Perp to EUT
0.023	45.0	14.0	1.0	237.0	3.0	0.0	See Comments	AV	-80.0	-21.0	40.2	-61.2	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.035	42.3	12.9	1.0	238.0	3.0	0.0	See Comments	AV	-80.0	-24.8	36.7	-61.4	EUT Horizontal, Antenna Perp to gnd Para to EUT
0.036	42.2	12.9	1.0	-5.0	3.0	0.0	See Comments	AV	-80.0	-24.9	36.5	-61.5	EUT on Side, Antenna Perp to gnd Perp to EUT
0.024	44.4	14.0	1.0	77.0	3.0	0.0	See Comments	AV	-80.0	-21.6	40.0	-61.6	EUT Vertical, Antenna Perp to gnd Para to EUT
0.048	40.8	11.5	1.0	-5.0	3.0	0.0	See Comments	AV	-80.0	-27.7	33.9	-61.6	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.025	44.1	13.9	1.0	19.0	3.0	0.0	See Comments	AV	-80.0	-22.0	39.6	-61.6	EUT Horizontal, Antenna Perp to gnd Para to EUT
0.037	41.9	12.8	1.0	291.0	3.0	0.0	See Comments	AV	-80.0	-25.3	36.3	-61.7	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.035	42.0	12.9	1.0	365.0	3.0	0.0	See Comments	AV	-80.0	-25.1	36.6	-61.7	EUT Vertical, Antenna Perp to gnd Para to EUT
0.025	44.1	13.9	1.0	152.0	3.0	0.0	See Comments	AV	-80.0	-22.0	39.8	-61.7	EUT on Side, Antenna Perp to gnd Para to EUT
0.036	41.9	12.9	1.0	157.0	3.0	0.0	See Comments	AV	-80.0	-25.2	36.5	-61.8	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.025	43.9	13.9	1.0	286.0	3.0	0.0	See Comments	AV	-80.0	-22.2	39.7	-61.9	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.024	44.0	14.0	1.0	244.0	3.0	0.0	See Comments	AV	-80.0	-22.0	39.9	-61.9	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.047	40.6	11.6	1.0	273.0	3.0	0.0	See Comments	AV	-80.0	-27.8	34.1	-61.9	EUT Vertical, Antenna Para to gnd Perp to EUT
0.024	44.1	14.0	1.0	210.0	3.0	0.0	See Comments	AV	-80.0	-21.9	40.1	-62.0	EUT on Side, Antenna Para to gnd Perp to EUT
0.025	43.7	13.9	1.0	316.0	3.0	0.0	See Comments	AV	-80.0	-22.4	39.7	-62.0	EUT Vertical, Antenna Para to gnd Perp to EUT
0.024	43.9	14.0	1.0	323.0	3.0	0.0	See Comments	AV	-80.0	-22.1	39.9	-62.0	EUT on Side, Antenna Para to gnd Perp to EUT
0.036	41.5	12.9	1.0	71.0	3.0	0.0	See Comments	AV	-80.0	-25.6	36.6	-62.2	EUT on Side, Antenna Perp to gnd Para to EUT
0.047	40.3	11.6	1.0	143.0	3.0	0.0	See Comments	AV	-80.0	-28.1	34.1	-62.2	EUT on Side, Antenna Para to gnd Perp to EUT
0.048	40.2	11.6	1.0	122.0	3.0	0.0	See Comments	AV	-80.0	-28.2	34.0	-62.3	EUT on Side, Antenna Perp to gnd Para to EUT
0.048	40.1	11.5	1.0	262.0	3.0	0.0	See Comments	AV	-80.0	-28.4	33.9	-62.3	EUT Vertical, Antenna Para to gnd Para to EUT
0.048	40.1	11.6	1.0	-5.0	3.0	0.0	See Comments	AV	-80.0	-28.3	34.0	-62.4	EUT Horizontal, Antenna Perp to gnd Para to EUT
0.047	40.1	11.6	1.0	259.0	3.0	0.0	See Comments	AV	-80.0	-28.3	34.1	-62.4	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.048	40.0	11.6	1.0	171.0	3.0	0.0	See Comments	AV	-80.0	-28.4	34.0	-62.5	EUT on Side, Antenna Perp to gnd Perp to EUT
0.048	39.8	11.5	1.0	189.0	3.0	0.0	See Comments	AV	-80.0	-28.7	34.0	-62.6	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.023	45.1	14.0	1.0	152.0	3.0	0.0	See Comments	PK	-80.0	-20.9	60.3	-81.1	EUT on Side, Antenna Para to gnd Para to EUT
0.025	44.5	13.9	1.0	286.0	3.0	0.0	See Comments	PK	-80.0	-21.6	59.7	-81.3	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.037	42.2	12.7	1.0	71.0	3.0	0.0	See Comments	PK	-80.0	-25.1	56.2	-81.3	EUT on Side, Antenna Para to gnd Para to EUT
0.035	42.2	12.9	1.0	76.0	3.0	0.0	See Comments	PK	-80.0	-24.9	56.6	-81.5	EUT Vertical, Antenna Para to gnd Perp to EUT
0.037	41.8	12.8	1.0	51.0	3.0	0.0	See Comments	PK	-80.0	-25.4	56.3	-81.8	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.036	41.8	12.9	1.0	273.0	3.0	0.0	See Comments	PK	-80.0	-25.3	56.5	-81.8	EUT on Side, Antenna Para to gnd Perp to EUT
0.036	41.8	12.9	1.0	238.0	3.0	0.0	See Comments	PK	-80.0	-25.3	56.6	-81.9	EUT Horizontal, Antenna Perp to gnd Para to EUT

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.025	43.7	13.9	1.0	19.0	3.0	0.0	See Comments	PK	-80.0	-22.4	59.8	-82.1	EUT Horizontal, Antenna Perp to gnd Para to EUT
0.035	41.5	12.9	1.0	-5.0	3.0	0.0	See Comments	PK	-80.0	-25.6	56.6	-82.2	EUT on Side, Antenna Perp to gnd Perp to EUT
0.035	41.5	13.0	1.0	365.0	3.0	0.0	See Comments	PK	-80.0	-25.6	56.7	-82.3	EUT Vertical, Antenna Perp to gnd Para to EUT
0.025	43.6	13.9	1.0	237.0	3.0	0.0	See Comments	PK	-80.0	-22.5	59.8	-82.3	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.023	44.0	14.1	1.0	316.0	3.0	0.0	See Comments	PK	-80.0	-21.9	60.3	-82.3	EUT Vertical, Antenna Para to gnd Perp to EUT
0.035	41.4	12.9	1.0	157.0	3.0	0.0	See Comments	PK	-80.0	-25.7	56.6	-82.3	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.048	40.0	11.6	1.0	189.0	3.0	0.0	See Comments	PK	-80.0	-28.4	54.0	-82.5	EUT Vertical, Antenna Perp to gnd Perp to EUT
0.035	41.1	12.9	1.0	291.0	3.0	0.0	See Comments	PK	-80.0	-26.0	56.6	-82.6	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.047	39.9	11.6	1.0	171.0	3.0	0.0	See Comments	PK	-80.0	-28.5	54.1	-82.6	EUT on Side, Antenna Perp to gnd Perp to EUT
0.023	43.5	14.0	1.0	244.0	3.0	0.0	See Comments	PK	-80.0	-22.5	60.2	-82.7	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.048	39.7	11.5	1.0	262.0	3.0	0.0	See Comments	PK	-80.0	-28.8	54.0	-82.7	EUT Vertical, Antenna Perp to gnd Para to EUT
0.048	39.7	11.5	1.0	259.0	3.0	0.0	See Comments	PK	-80.0	-28.8	54.0	-82.7	EUT Horizontal, Antenna Para to gnd Perp to EUT
0.047	39.7	11.6	1.0	143.0	3.0	0.0	See Comments	PK	-80.0	-28.7	54.1	-82.8	EUT on Side, Antenna Para to gnd Perp to EUT
0.024	43.1	14.0	1.0	77.0	3.0	0.0	See Comments	PK	-80.0	-22.9	59.9	-82.8	EUT Vertical, Antenna Perp to gnd Para to EUT
0.023	43.3	14.1	1.0	323.0	3.0	0.0	See Comments	PK	-80.0	-22.6	60.3	-83.0	EUT on Side, Antenna Perp to gnd Perp to EUT
0.047	39.4	11.6	1.0	273.0	3.0	0.0	See Comments	PK	-80.0	-29.0	54.1	-83.1	EUT Vertical, Antenna Para to gnd Perp to EUT
0.047	39.4	11.6	1.0	-5.0	3.0	0.0	See Comments	PK	-80.0	-29.0	54.1	-83.1	EUT Horizontal, Antenna Perp to gnd Perp to EUT
0.048	39.3	11.5	1.0	-5.0	3.0	0.0	See Comments	PK	-80.0	-29.2	53.9	-83.1	EUT Horizontal, Antenna Perp to gnd Para to EUT
0.024	42.9	14.0	1.0	210.0	3.0	0.0	See Comments	PK	-80.0	-23.1	60.0	-83.1	EUT on Side, Antenna Para to gnd Perp to EUT
0.048	38.9	11.6	1.0	122.0	3.0	0.0	See Comments	PK	-80.0	-29.5	54.0	-83.6	EUT on Side, Antenna Perp to gnd Para to EUT