## First Texas Products LLC

**ADDENDUM TEST REPORT TO 94983-5** 

Hobby Metal Detector Model: T2

**Tested To The Following Standards:** 

FCC Part 15 Subpart C Section 15.209 & RSS - 210 Issue 8

Report No.: 94983-5A

Date of issue: December 11, 2013



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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### **ADMINISTRATIVE INFORMATION**

### **Test Report Information**

REPORT PREPARED FOR: REPORT PREPARED BY:

First Texas Products LLC Chris Geis

1465-H Henry Brennan CKC Laboratories, Inc.
El Paso, TX 79936 5046 Sierra Pines Drive
Mariposa, CA 95338

REPRESENTATIVE: Art Nemirow Project Number: 94983

Customer Reference Number: 02110-00

**DATE OF EQUIPMENT RECEIPT:**November 14, 2013 **DATE(S) OF TESTING:**November 14, 2013

### **Revision History**

**Original:** Testing of Hobby Metal Detector to FCC Part 15 Subpart C Section 15.209 and RSS-210. **Addendum A:** To correct the processor clock speed from 4MHz to 6MHz.

## **Report Authorization**

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.

Steve Behm

Director of Quality Assurance & Engineering Services CKC Laboratories, Inc.

Steve 27 Bel

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# **Test Facility Information**



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S): CKC Laboratories, Inc. 5046 Sierra Pines Drive Mariposa, CA 95338

### **Software Versions**

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.00.14
Immunity	5.00.07

## **Site Registration & Accreditation Information**

Location	CB#	TAIWAN	CANADA	FCC	JAPAN
Mariposa A	US0103	SL2-IN-E-1147R	3082A-2	90477	A-0136

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### **SUMMARY OF RESULTS**

## Standard / Specification: FCC Part 15 Subpart C & RSS-210 Issue 8

Description	Test Procedure/Method	Results
RF Power Output	FCC Part 15 Subpart C Section 15.209	Pass
-20dBc Occupied Bandwidth	FCC Part 15 Subpart C Section 15.209	Pass
99% Bandwidth	RSS-210 A8.2(a)	Pass
Radiated Spurious Emissions	FCC Part 15 Subpart C Section 15.209	Pass

# **Conditions During Testing**

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summar	ry of Conditions
None	

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# **EQUIPMENT UNDER TEST (EUT)**

#### **EQUIPMENT UNDER TEST**

**Hobby Metal Detector** 

Manuf: First Texas Products, LLC.

Model: T2

Serial: 091304183

**Headphones** 

Manuf: Teknetic Model: T2

Serial: None

#### **PERIPHERAL DEVICES**

The EUT was not tested with peripheral devices.

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# **FCC PART 15 SUBPART C**

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CFR 15C requirements for Unlicensed Radio Frequency Devices, Subpart C - Intentional Radiators.

## FCC 15.209 RF Power Output

#### **Test Data**

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: First Texas Products, LLC Specification: 15.209 Radiated Output

Work Order #: Date: 11/13/2013 94983 Test Type: Time: 11:46:09 **Maximized Emissions** 

Equipment: **Hobby Metal Detector** Sequence#: 3

Manufacturer: First Texas Products, LLC. Tested By: Chuck Kendall

Model: T2

S/N: 091304183

Test Equipment:

	T				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00226	Loop Antenna	6502	3/28/2012	3/28/2014
T2	ANMA10M	Cable		8/17/2012	8/17/2014
	AN02111	Spectrum Analyzer	8593EM	5/20/2013	5/20/2015

*Equipment Under Test* (\* = EUT):

Function	Manufacturer	Model #	S/N
Hobby Metal Detector*	First Texas Products, LLC.	T2	091304183
Headphones	Teknetic	T2	None

Support Devices:

Function	Manufacturer	Model #	S/N
1 diletion	TVI GII GI GI GI	1110401 11	D/11

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#### Test Conditions / Notes:

Unit is set up on a wooden table some 80 cm off the ground plane with the 11"antenna in the Vertical position. A pair of Teknetics Headphones are attached using ½ "phono connector. Sensitivity is set to its maximum (100) and the discriminator is set to 0. A small piece of metal attached to one end of a short piece of wood is rotating in front of the antenna during the test.

There are 4 AA new Alkaline batteries installed in it In Accordance With 15.31(e).

Frequencies of Interest: 9kHz to 135kHz

From 9kHz to 150 kHz; RBW = 200Hz; VBW = 300 Hz

Environmental Conditions: Temperature = 19.4°C Relative Humidity = 40% Barometric Pressure = 97.8 kPa

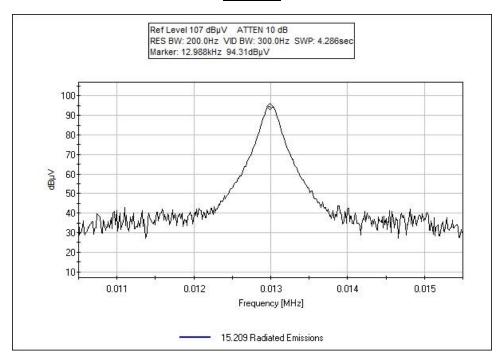
Transmitting is operating at 13 kHz

Processor Clock = 6MHz

Ext Attn: 0 dB

M	easure	ment Data:	Re	eading lis	ted by ma	argin.		Τe	est Distance	e: 3 Meters		
	#	Freq	Rdng	T1	T2			Dist	Corr	Spec	Margin	Polar
		MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m \\$	dB	Ant
	1	12.986k	94.4	+15.1	+0.3			-80.0	29.8	45.3	-15.5	Vert
										Axis 1 witl	n 11"	
										loop anteni	na	

#### **Test Plot**



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## Test Setup Photos



Low Frequency – Horizontal Polarity



Low Frequency – Vertical Polarity



### -20dBc Occupied Bandwidth

#### **Test Data**

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: First Texas Products, LLC

Specification: 15.209 Bandwidth

 Work Order #:
 94983
 Date: 11/13/2013

 Test Type:
 Maximized Emissions
 Time: 11:46:09

Equipment: **Hobby Metal Detector** Sequence#: 3

Manufacturer: First Texas Products, LLC. Tested By: Chuck Kendall

Model: T2

S/N: 091304183

Test Equipment:

-	1	I				
	ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	T1	AN00226	Loop Antenna	6502	3/28/2012	3/28/2014
ĺ	T2	AN02660	Spectrum Analyzer	E4446A	8/23/2012	8/23/2014
ĺ	Т3	ANMA10M	Cable		8/17/2012	8/17/2014

#### Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Hobby Metal Detector*	First Texas Products, LLC.	T2	091304183
Headphones	Teknetic	T2	None

#### Support Devices:

Function Manufacturer Model # S/N
-----------------------------------

#### Test Conditions / Notes:

Unit is set up on a wooden table some 80 cm off the ground plane with the 11"antenna in the Vertical position. A pair of Teknetics Headphones is attached using ¼ "phono connector. Sensitivity is set to its maximum (100) and the discriminator is set to 0. A small piece of metal attached to one end of a short piece of wood is rotating in front of the antenna during the test.

There are 4 AA new Alkaline batteries installed in it In Accordance With 15.31(e).

Frequency in kHz	Bandwidth in Hz
13	31.68

Frequencies of Interest: 9kHz to 20kHz

From 9kHz to 135kHz; RBW = 15Hz; VBW = 300kHz

Environmental Conditions: Temperature = 19.4°C Relative Humidity = 40% Barometric Pressure = 97.8 kPa

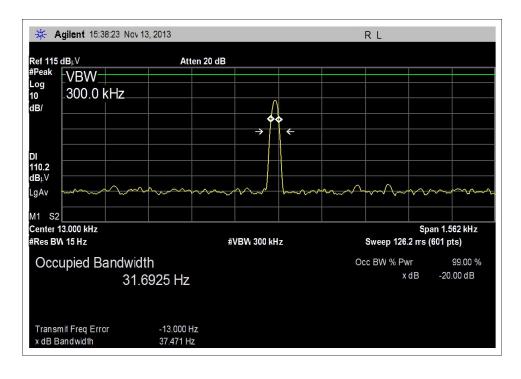
Transmitting is operating at 13 kHz

Processor Clock = 6MHz

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### **Test Plots**





### **Test Setup Photos**



Low Frequency – Horizontal Polarity



Low Frequency – Vertical Polarity



## RSS-210 A8.2(a) 99 % Bandwidth

#### **Test Data**

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: First Texas Products, LLC

Specification: RSS-210 A8.2(a) Emissions Bandwidth Measurements

 Work Order #:
 94983
 Date: 11/13/2013

 Test Type:
 Maximized Emissions
 Time: 11:46:09

Equipment: **Hobby Metal Detector** Sequence#: 3

Manufacturer: First Texas Products, LLC. Tested By: Chuck Kendall

Model: T2

S/N: 091304183

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00226	Loop Antenna	6502	3/28/2012	3/28/2014
T2	AN02660	Spectrum Analyzer	E4446A	8/23/2012	8/23/2014
Т3	ANMA10M	Cable		8/17/2012	8/17/2014

Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Hobby Metal Detector*	First Texas Products, LLC.	T2	091304183
Headphones	Teknetic	T2	None

#### Support Devices:

Function	Manufacturer	Model #	S/N

#### Test Conditions / Notes:

Unit is set up on a wooden table some 80 cm off the ground plane with the 11"antenna in the Vertical position. A pair of Teknetics Headphones is attached using ¼ "phono connector. Sensitivity is set to its maximum (100) and the discriminator is set to 0. A small piece of metal attached to one end of a short piece of wood is rotating in front of the antenna during the test.

There are 4 AA new Alkaline batteries installed in it In Accordance With 15.31(e).

Frequencies of Interest: 9kHz to 20kHz

From 9kHz to 135kHz; RBW = 15Hz; VBW = 300kHz

Environmental Conditions: Temperature = 19.4°C Relative Humidity = 40% Barometric Pressure = 97.8 kPa

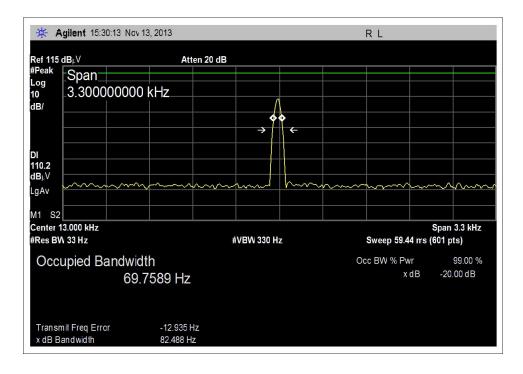
Transmitting is operating at 13 kHz

Processor Clock = 6MHz

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#### Test Plot





## Test Setup Photos



Low Frequency – Horizontal Polarity



Low Frequency-Vertical Polarity



### **FCC 15.209 Radiated Spurious Emissions**

#### **Test Data Sheets**

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: First Texas Products, LLC Specification: 15.209 Radiated Emissions

Work Order #: 94983 Date: 11/14/2013
Test Type: Maximized Emissions Time: 15:16:07
Equipment: Hobby Metal Detector Sequence#: 1

Manufacturer: First Texas Products, LLC. Tested By: Chuck Kendall

Model: T2

S/N: 091304183

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	1 AN00226	Loop Antenna	6502	3/28/2012	3/28/2014
	AN02660	Spectrum Analyzer	E4446A	8/23/2012	8/23/2014
T2	2 ANMA10M	Cable		8/17/2012	8/17/2014

Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Hobby Metal Detector*	First Texas Products, LLC.	T2	091304183
Headphones	Teknetic	T2	None

#### Support Devices:

Function	Manufacturer	Model #	S/N

#### Test Conditions / Notes:

Unit is set up on a wooden table some 80 cm off the ground plane with the 11"antenna in the Vertical position. A pair of Teknetics Headphones are attached using  $\hat{A}^{1/4}$  "phono connector. Sensitivity is set to its maximum (100) and the discriminator is set to 0. A small piece of metal attached to one end of a short piece of wood is rotating in front of the antenna during the test.

Frequencies of Interest: 9kHz to 30MHz

From 9kHz to 150 kHz; RBW = 200Hz; VBW = 620 Hz From 150 kHz to 30 MHz; RBW = 9kHz & VBW = 30kHz

Environmental Conditions: Temperature = 19.4°C Relative Humidity = 40% Barometric Pressure = 97.8 kPa

Transmitting is operating at 13 kHz

Processor Clock = 6MHz

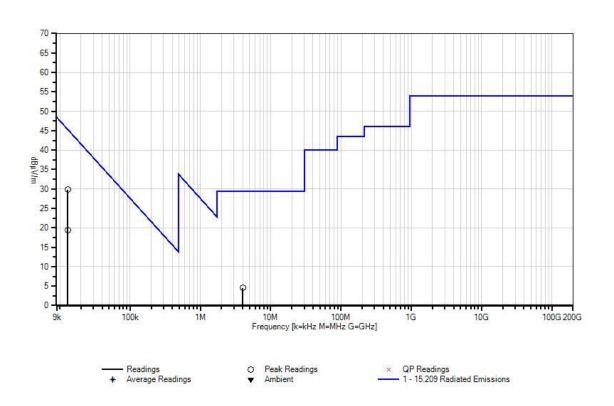
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Ext Attn: 0 dB

Measurement Data:		Re	eading lis	ted by ma	argın.		Te	est Distance	e: 3 Meters			
	#	Freq	Rdng	T1	T2			Dist	Corr	Spec	Margin	Polar
		MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
	1	12.986k	94.4	+15.1	+0.3			-80.0	29.8	45.3	-15.5	Vert
										Fundament	tal	
	2	4.002M	34.0	+9.8	+0.7			-40.0	4.5	29.5	-25.0	Vert
	3	12.985k	84.1	+15.1	+0.3			-80.0	19.5	45.3	-25.8	Horiz
	4	2.001M	26.0	+9.9	+0.5			-40.0	-3.6	29.5	-33.1	Vert

CKC Laboratories, Inc. Date: 11/14/2013 Time: 15:16:07 First Texas Products, LLC WO#: 94983 15.209 Radiated Emissions Test Distance: 3 Meters Sequence#: 1 Ext ATTN: 0 dB





Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: First Texas Products, LLC Specification: 15.209 Radiated Emissions

Work Order #: 94983 Date: 11/13/2013
Test Type: Maximized Emissions Time: 10:11:06
Equipment: Hobby Metal Detector Sequence#: 1

Man for the Property Design Land LLC

Manufacturer: First Texas Products, LLC. Tested By: Chuck Kendall

Model: T2

S/N: 091304183

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01992	Biconilog Antenna	CBL6111C	8/1/2012	8/1/2014
T2	AN00062	Preamp	8447D	6/6/2012	6/6/2014
Т3	ANMA10M	Cable		8/17/2012	8/17/2014
T4	AN02660	Spectrum Analyzer	E4446A	8/23/2012	8/23/2014

#### Equipment Under Test (\* = EUT):

(	/ -		
Function	Manufacturer	Model #	S/N
Hobby Metal Detector*	First Texas Products, LLC.	T2	091304183
Headphones	Teknetic	T2	None

#### Support Devices:

Function	Manufacturer	Model #	S/N	

#### Test Conditions / Notes:

Unit is set up on a wooden table some 80 cm off the ground plane with the 11"antenna in the Vertical position. A pair of Teknetics Headphones are attached using  $\hat{A}^{1/4}$  "phono connector. Sensitivity is set to its maximum (100) and the discriminator is set to 0. A small piece of metal attached to one end of a short piece of wood is rotating in front of the antenna during the test.

Transmitter is on and operating at 13kHz.

Processor clock is 6MHz.

Frequencies of Interest: 30MHz to 1000MHz

From 30MHz to 1000MHz; RBW = 120kHz, VBW = 300kHz

**Environmental Factors:** 

Temperature = 19.1°C Relative Humidity = 40% Barometric Pressure = 97.5 kPa

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

_				0		U						
	#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
		MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
Ī	1	30.181M	34.1	+18.3	-30.6	+1.7	+0.0	+10.5	34.0	40.0	-6.0	Horiz
										Axis 2		
Ī	2	30.079M	33.9	+18.4	-30.6	+1.7	+0.0	+10.5	33.9	40.0	-6.1	Horiz
										Axis 3		

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3	30.278M	33.7	+18.3	-30.6	+1.7	+0.0	+10.5	33.6	40.0 Axis 1	-6.4	Vert
4	30.178M	33.6	+18.3	-30.6	+1.7	+0.0	+10.5	33.5	40.0	-6.5	Horiz
	20.26714	22.6	. 10.2	20.6	. 1 7	. 0. 0	. 10.5	22.5	Axis 1		<b>X</b> 7
5	30.267M	33.6	+18.3	-30.6	+1.7	+0.0	+10.5	33.5	40.0 Axis 2	-6.5	Vert
6	30.182M	33.5	+18.3	-30.6	+1.7	±0.0	+10.5	33.4		-6.6	Vert
	30.10211	33.3	110.5	-30.0	11.7	10.0	110.5	33.4	Axis 3	-0.0	VCIT
7	37.624M	36.3	+14.5	-30.5	+1.9	+0.0	+10.5	32.7		-7.3	Horiz
									Axis 3		
8	37.827M	35.8	+14.4	-30.5	+1.9	+0.0	+10.5	32.1		-7.9	Horiz
									Axis 1		
9	37.825M	35.7	+14.4	-30.5	+1.9	+0.0	+10.5	32.0	40.0	-8.0	Vert
									Axis 1		
10	37.725M	34.5	+14.5	-30.5	+1.9	+0.0	+10.5	30.9	40.0	-9.1	Horiz
									Axis 2		
11	37.725M	33.9	+14.5	-30.5	+1.9	+0.0	+10.5	30.3	40.0	-9.7	Vert
									Axis 2		
12	37.725M	33.4	+14.5	-30.5	+1.9	+0.0	+10.5	29.8	40.0	-10.2	Vert
									Axis 3		
13	45.395M	36.3	+10.6	-30.6	+2.1	+0.0	+10.5	28.9	40.0	-11.1	Horiz
									Axis 1		
14	45.395M	35.8	+10.6	-30.6	+2.1	+0.0	+10.5	28.4		-11.6	Vert
									Axis 2		
15	65.199M	38.6	+5.3	-30.3	+2.5	+0.0	+10.5	26.6		-13.4	Vert
									Axis 3		
16	52.125M	36.9	+7.5	-30.6	+2.3	+0.0	+10.5	26.6		-13.4	Vert
1.7	45.0053.5	22.0	10.6	20.6	2.1	0.0	10.5	265	Axis 1	10.7	** '
17	45.395M	33.9	+10.6	-30.6	+2.1	+0.0	+10.5	26.5	40.0	-13.5	Horiz
10	45.0043.6	22.6	10.6	20.6	. 2.1	. 0. 0	. 10.7	26.2	Axis 2	12.0	
18	45.294M	33.6	+10.6	-30.6	+2.1	+0.0	+10.5	26.2	40.0	-13.8	Horiz
10	01 20214	35.3	.7.0	20.2	12.0	. 0. 0	. 10.5	26.1	Axis 3	12.0	<b>V</b> 7 = ==4
19	81.293M	33.3	+7.8	-30.3	+2.8	+0.0	+10.5	20.1	40.0	-13.9	Vert
20	45.495M	33.5	+10.5	-30.6	+2.1	ι Ο Ο	+10.5	26.0	Axis 3 40.0	-14.0	Vert
20	43.493IVI	33.3	+10.5	-30.0	+2.1	+0.0	+10.5	20.0	Axis 1	-14.0	Vert
21	81.193M	35.2	+7.8	-30.3	+2.8	±0.0	+10.5	26.0	40.0	-14.0	Horiz
21	01.175141	33.2	17.0	30.3	12.0	10.0	110.5	20.0	Axis 3	14.0	HOHZ
22	51.491M	35.8	+7.8	-30.6	+2.3	+0.0	+10.5	25.8	40.0	-14.2	Horiz
	J1.171111	55.0	17.0	50.0	. 2.3	10.0	110.5	25.0	Axis 3	1 1.4	110112
23	115.035M	34.4	+10.9	-30.1	+3.3	+0.0	+10.5	29.0	43.5	-14.5	Vert
							,		Axis 2		
24	52.025M	35.6	+7.6	-30.6	+2.3	+0.0	+10.5	25.4	40.0	-14.6	Horiz
									Axis 1		
25	45.395M	32.8	+10.6	-30.6	+2.1	+0.0	+10.5	25.4	40.0	-14.6	Vert
									Axis 3		
26	52.025M	35.2	+7.6	-30.6	+2.3	+0.0	+10.5	25.0	40.0	-15.0	Vert
									Axis 2		
27	114.935M	33.7	+10.9	-30.1	+3.3	+0.0	+10.5	28.3	43.5	-15.2	Horiz
									Axis 3		
28	65.200M	36.5	+5.3	-30.3	+2.5	+0.0	+10.5	24.5	40.0	-15.5	Horiz
									Axis 2		

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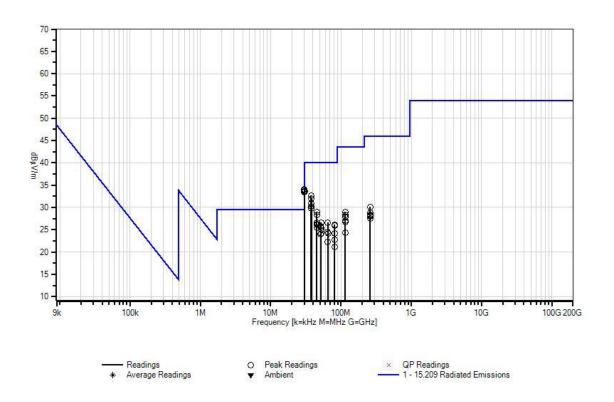


29	65.200M	36.5	+5.3	-30.3	+2.5	+0.0 +10.5	24.5	40.0 Axis 2	-15.5	Vert
30	115.035M	33.2	+10.9	-30.1	+3.3	+0.0 +10.5	27.8	43.5 Axis 1	-15.7	Horiz
31	65.300M	36.2	+5.3	-30.3	+2.5	+0.0 +10.5	24.2	40.0 Axis 1	-15.8	Vert
32	52.023M	34.4	+7.6	-30.6	+2.3	+0.0 +10.5	24.2	40.0 Axis 2	-15.8	Horiz
33	81.300M	33.4	+7.8	-30.3	+2.8	+0.0 +10.5	24.2	40.0 Axis 2	-15.8	Vert
34	260.000M	31.2	+12.3	-29.0	+5.1	+0.0 +10.5	30.1	46.0 Axis 1	-15.9	Vert
35	51.591M	34.1	+7.7	-30.6	+2.3	+0.0 +10.5	24.0	40.0 Axis 3	-16.0	Vert
36	115.035M	32.5	+10.9	-30.1	+3.3	+0.0 +10.5	27.1	43.5 Axis 3	-16.4	Vert
37	115.135M	32.0	+11.0	-30.1	+3.3	+0.0 +10.5	26.7	43.5 Axis 1	-16.8	Vert
38	259.800M	30.0	+12.2	-29.0	+5.1	+0.0 +10.5	28.8	46.0 Axis 3	-17.2	Horiz
39	81.400M	31.9	+7.8	-30.3	+2.8	+0.0 +10.5	22.7		-17.3	Vert
40	259.899M	29.5	+12.2	-29.0	+5.1	+0.0 +10.5	28.3	46.0 Axis 2	-17.7	Vert
41	65.200M	34.2	+5.3	-30.3	+2.5	+0.0 +10.5	22.2	40.0 Axis 1	-17.8	Horiz
42	65.099M	34.2	+5.3	-30.3	+2.5	+0.0 +10.5	22.2	40.0 Axis 3	-17.8	Horiz
43	259.899M	29.3	+12.2	-29.0	+5.1	+0.0 +10.5	28.1		-17.9	Horiz
44	259.899M	29.1	+12.2	-29.0	+5.1	+0.0 +10.5	27.9		-18.1	Horiz
45	259.899M	28.7	+12.2	-29.0	+5.1	+0.0 +10.5	27.5		-18.5	Vert
46	81.351M	30.3	+7.8	-30.3	+2.8	+0.0 +10.5	21.1	40.0 Axis 2	-18.9	Horiz
47	115.035M	29.7	+10.9	-30.1	+3.3	+0.0 +10.5	24.3	43.5 Axis 2	-19.2	Horiz

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## Test Setup Photos



Low Frequency – Horizontal Polarity



Low Frequency – Vertical Polarity





Middle Frequency - Axis 1



Middle Frequency - Axis 2





Middle Frequency - Axis 3

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