

DIVERSIFIED

T.E.S.T.

TECHNOLOGIES, INC.

4675 Burr Drive • Liverpool, NY 13088 • 1-800-724-6452 • FAX: 315-457-0428 • 315-457-0245

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November 6, 2014

Mark Bullock  
**GOJO**  
One GOJO Plaza, Suite 500  
Akron, OH 44311

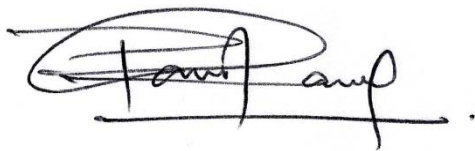
Dear Mr. Bullock:

Enclosed is the test report for the GOJO Sanitizer Dispenser TFX unit SMARTLINK™ Ready TFX™ dispenser part number with module number 2840-513-XXX tested at our facility, located at 4675 Burr Drive in Liverpool, NY. This facility is on file with the Federal Communications Commission (FCC) per 47 CFR 2.948 (Site File Number 306552)

We have completed our testing of Emissions to the FCC per 47 CFR Part 15 Class B.

Thank you for selecting DTT lab for your testing needs. We look forward to working with you on future projects. Should you have any questions or concerns regarding this report, contact me at 315-457-0245. Please feel free to visit our website at [www.dttlabs.com](http://www.dttlabs.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Prasanna Gautam", with a horizontal line underneath.

Prasanna Gautam  
Technical Associate

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<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser TFX unit	Project Number: 6492

## ***Test Information***

<b>Laboratory</b>	<b>Manufacturer</b>
<b>DTT lab.</b>	<b>GOJO Industries</b>
4675 Burr Drive	One GOJO Plaza, Suite 500
Liverpool, NY 13088	Akron, OH 443110

Report Issue Date: November 6, 2014  
 Report Number: 6492-102114-FCCB 15.249 TFX unit (Edition 1)  
 Project Number: 6492

Date Received: August 9, 2014  
 Date Tested: August 9, 2014 - November 6, 2014

Product: Sanitizer Dispenser  
 Model: TFX unit

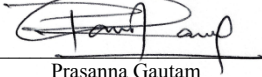
### **FCC ID: O76-T4SG0910A**

*Traceability: Reference standards of measurement have been calibrated by a competent body using standards traceable to NIST.*

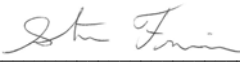
The testing performed by DTT lab, has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the FCC per 47 CFR Part 15.249. The results in this test report apply only to the GOJO Sanitizer Dispenser TFX unit.

It is the responsibility of the manufacturer to ensure that the product identification and labeling are in compliance with the applicable standards requirements. The manufacturer is also responsible for ensuring that additional units are manufactured with identical mechanical and electrical characteristics.

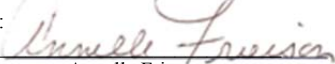
**The equipment listed above conforms to the specified requirements of the test standards listed in the Test Regulations section of this report.**

Compiled by:   
 Signature: \_\_\_\_\_  
 Prasanna Gautam  
 Technical Associate

Date: November 6, 2014

Reviewed by:   
 Signature: \_\_\_\_\_  
 Steve Frierson  
 Technical Lab Manager

Date: November 6, 2014

Authorized by:   
 Signature: \_\_\_\_\_  
 Annelle Frierson  
 Vice-President

Date: November 6, 2014

*This report shall not be reproduced, except in full, without the written approval of DTT lab,*

<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser TFX unit	Project Number: 6492

## ***Test Regulations***

**The tests were performed according to the following standards:**

<input checked="" type="checkbox"/> FCC Part 15.249	<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class B
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<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser TFX unit	Project Number: 6492

## ***Equipment under Test (EUT) Testing Operation Mode***

The EUT was operated under the following conditions during testing:

- ☐ Standby
- ☒ Normal Operating Mode
- ☐ Practice Operation

### **Description / Configuration of the EUT:**

Sanitizer Dispenser TFX unit

The EUT was powered with 6 V Batteries during the collection of data included within this report.

### **Rationale for EUT setup / configuration:**

ANSI C63.4-2009

### **Modifications:**

None

### **Deviations from test method:**

None

<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser TFX unit	Project Number: 6492

## ***Test Results***

### **Radiated Emissions 8MHz – 1000MHz**

The requirements are ☒ MET      ☐ NOT MET

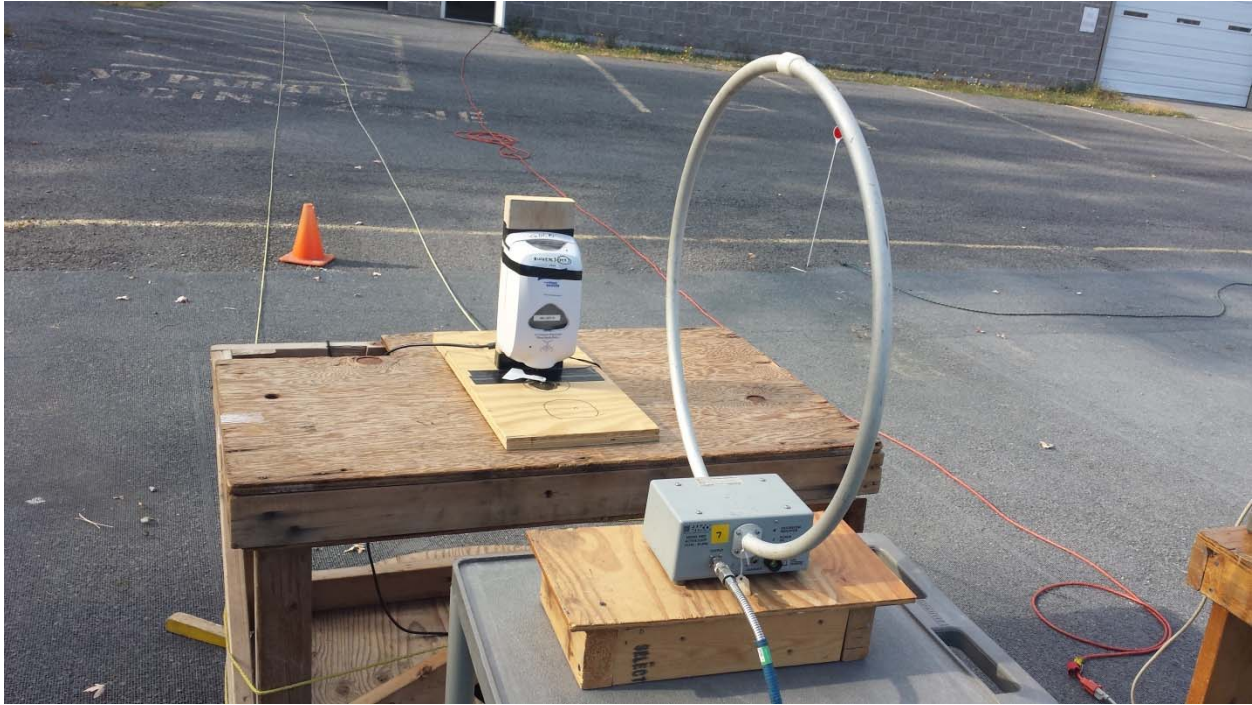
## *Diversified Test Technologies Test Report*

GOJO Industries  
Sanitizer Dispenser TFX unit

Project Number:  
6492

### *Test Setup Photographs*

#### *Radiated Emission 8MHz-30MHz*



***Diversified Test Technologies Test Report***

GOJO Industries  
Sanitizer Dispenser TFX unit

Project Number:  
6492

***Radiated Emissions 200MHz-1000MHz***



<i><b>Diversified Test Technologies Test Report</b></i>	
GOJO Industries Sanitizer Dispenser TFX unit	Project Number: 6492

## ***Emissions Testing Conditions***

### ***Radiated Emissions***

The Radiated Emissions measurements, in the frequency range of 8MHz to 1000 MHz, were tested in a horizontal and vertical polarization at the following test location:

- ☒ DTT lab. . Open Area Test Site  
☐ DTT lab.

At a test distance of:

- ☒ 1 meter  
☒ 3 meters  
☐ 10 meters  
☐ 30 meters

Measurements from 8MHz to 30 MHz were made at a test distance of 1 Meter  
Measurements from 30MHz to 1 GHz were made at a test distance of 3 Meters

DTT lab uses automated data reductions to determine product compliance to Radiated Emissions regulations. The product's signal data is compared to a current ambient scan. The frequencies that are of significant amplitude are sorted and are brought out to be further analyzed and maximized.

Test equipment used:

<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>	<b>Serial #</b>	<b>Cal Due Date</b>
Hewlett Packard	8596E	Spectrum Analyzer	3235A00144	05/16/15
EMCO	6502	Active Loop Antenna	9110-2685	11/05/15
Electro-Metrics	BIA25	Biconical Antenna, 30-200 MHz	001	10/29/15
Electro-Metrics	LPA25	Log Periodic Antenna	1242	07/08/15
Hewlett Packard	7550A	Plotter	2407A00476	
		Co-ax cable, 100 ft. RG 8/U		
		Wooden test fixture with an electric motor.		
	MFR- 57500	Blue Low loss Cable	337	
		Non-conductive wooden turntable		
		10-meter open field test range, grounded with 1/4" x 1/4" hardware cloth		

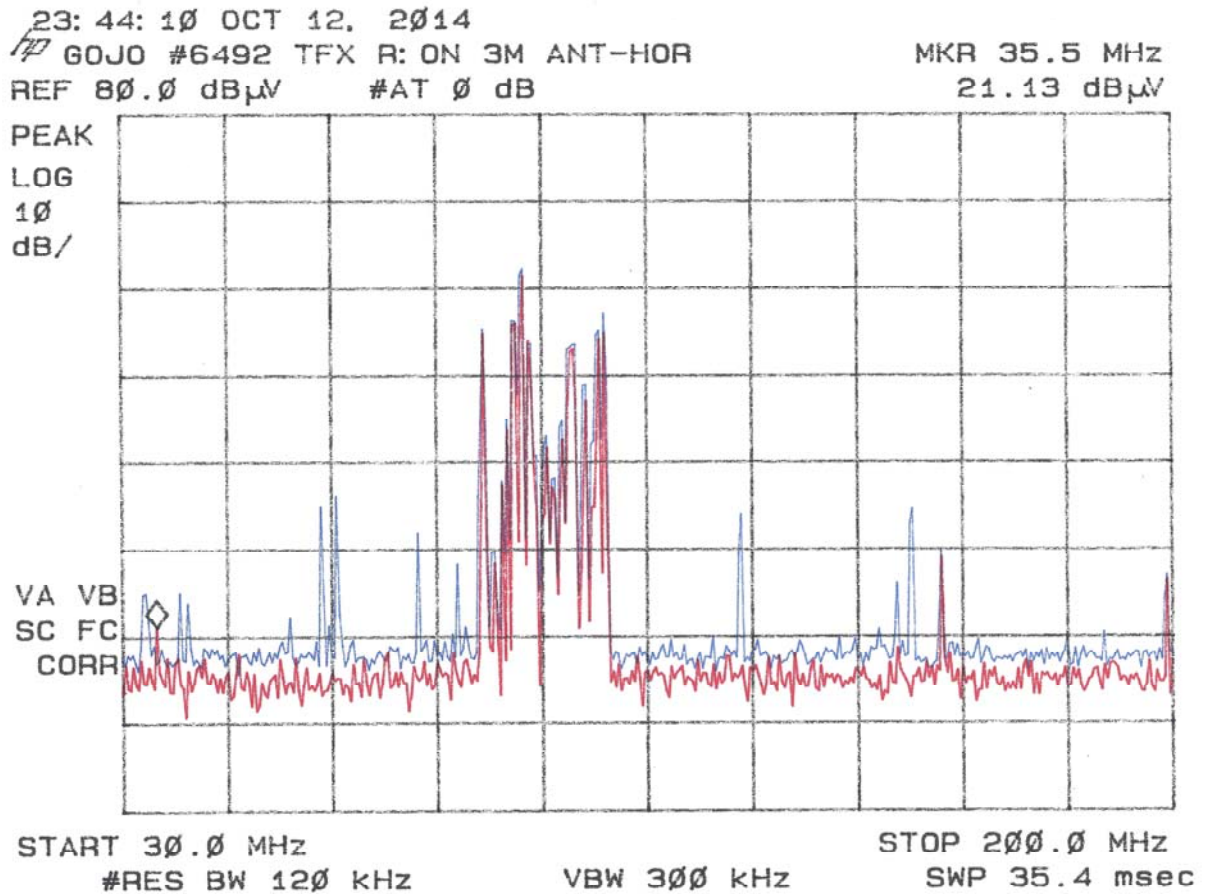
**NOTE: Calibration interval 1 year for the test equipment**

# Diversified Test Technologies Test Report

GOJO Industries  
Sanitizer Dispenser TFX unit

Project Number:  
6492

## Radiated Emissions Test Data



*Diversified Test Technologies Test Report*

GOJO Industries  
Sanitizer Dispenser TFX unit

Project Number:  
6492

00:10:30 OCT 13, 2014

GOJO #6492 TFX R: ON 3M ANT-VERT

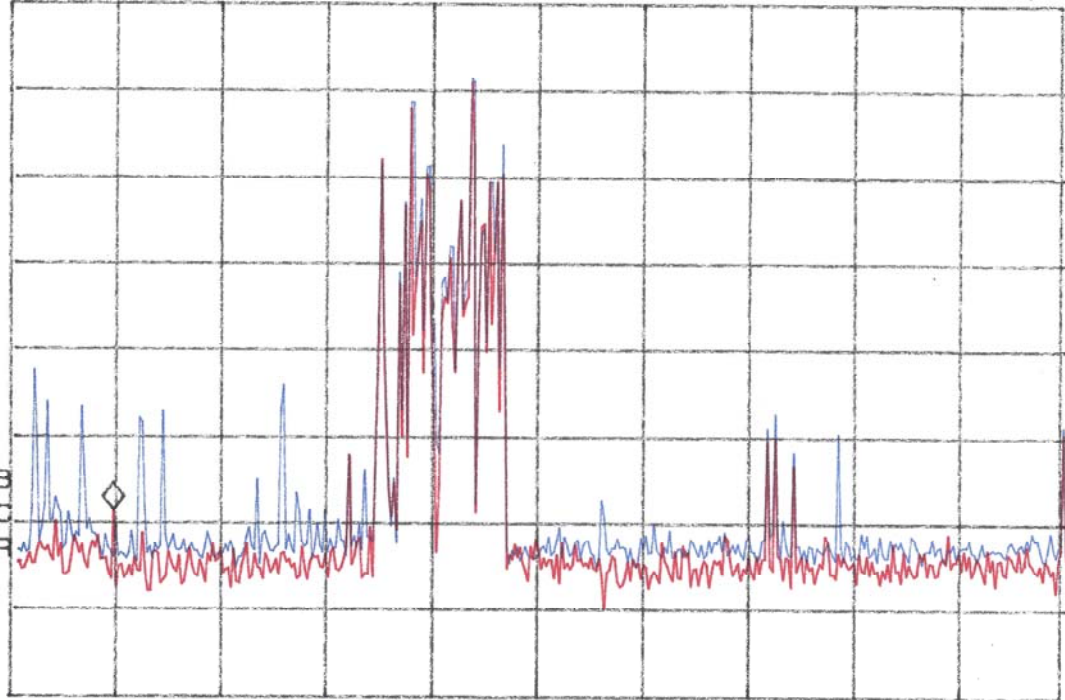
REF 80.0 dB $\mu$ V #AT 0 dB

MKR 45.3 MHz

21.48 dB $\mu$ V

PEAK  
LOG  
10  
dB/

VA VB  
SC FC  
CORR



START 30.0 MHz

#RES BW 120 KHz

VBW 300 KHz

STOP 200.0 MHz

SWP 35.4 msec

# Diversified Test Technologies Test Report

GOJO Industries  
Sanitizer Dispenser TFX unit

Project Number:  
6492

01:46:45 OCT 13, 2014

GOJO #6492 TFX R: ON 3M ANT-HOR

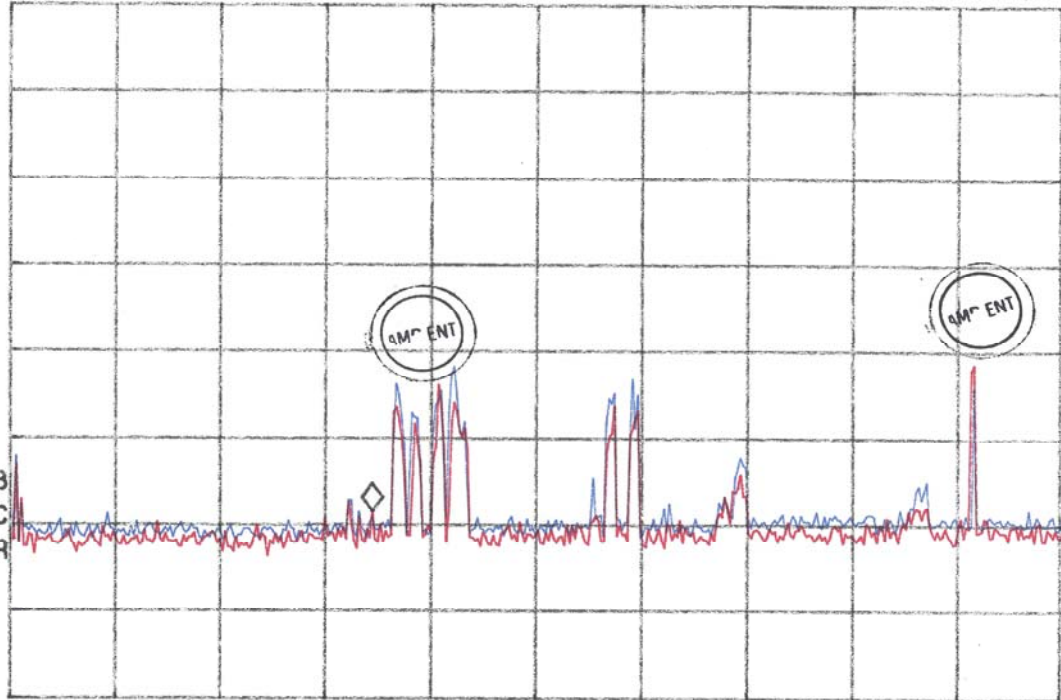
REF 80.0 dB $\mu$ V #AT 0 dB

MKR 474.0 MHz

21.60 dB $\mu$ V

PEAK  
LOG  
10  
dB/

VA VB  
SC FC  
CORR



START 200.0 MHz

#RES BW 120 kHz

VBW 300 kHz

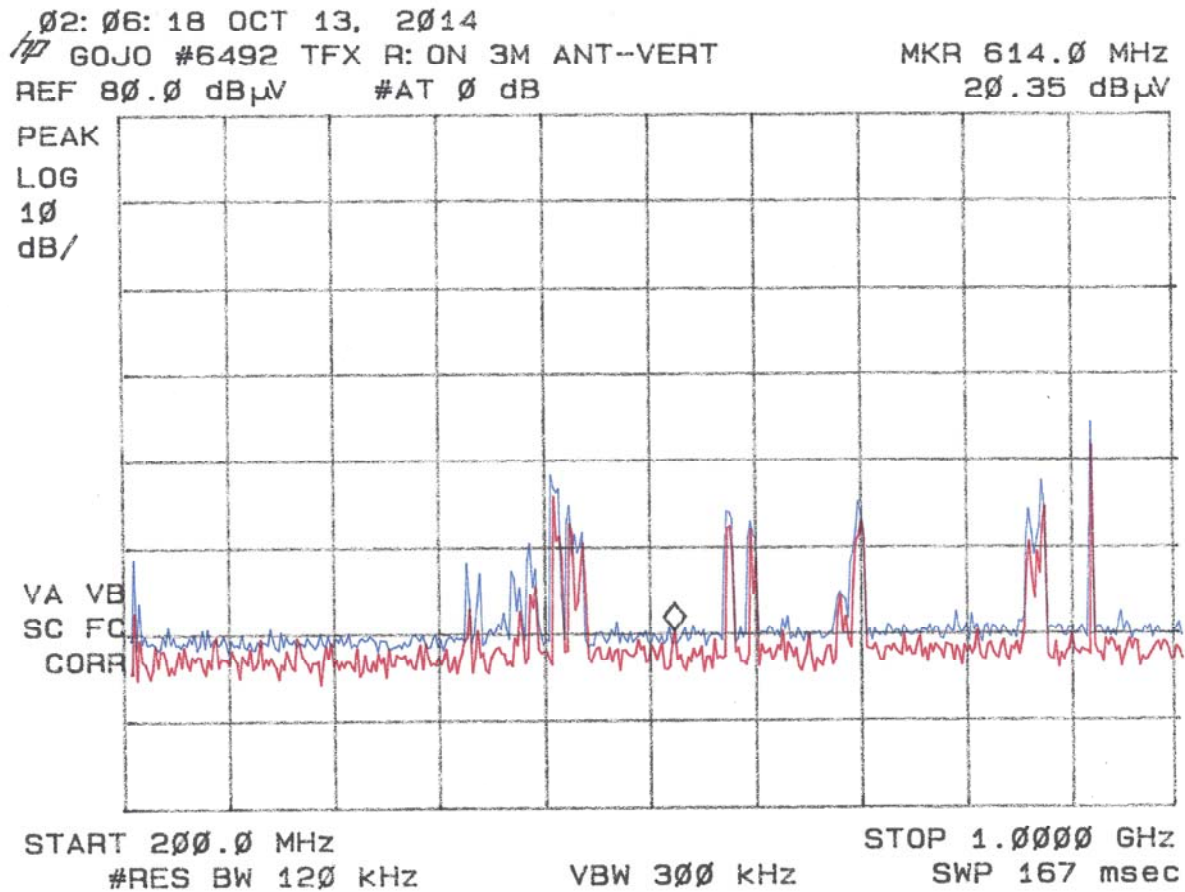
STOP 1.0000 GHz

SWP 167 msec

*Diversified Test Technologies Test Report*

GOJO Industries  
Sanitizer Dispenser TFX unit

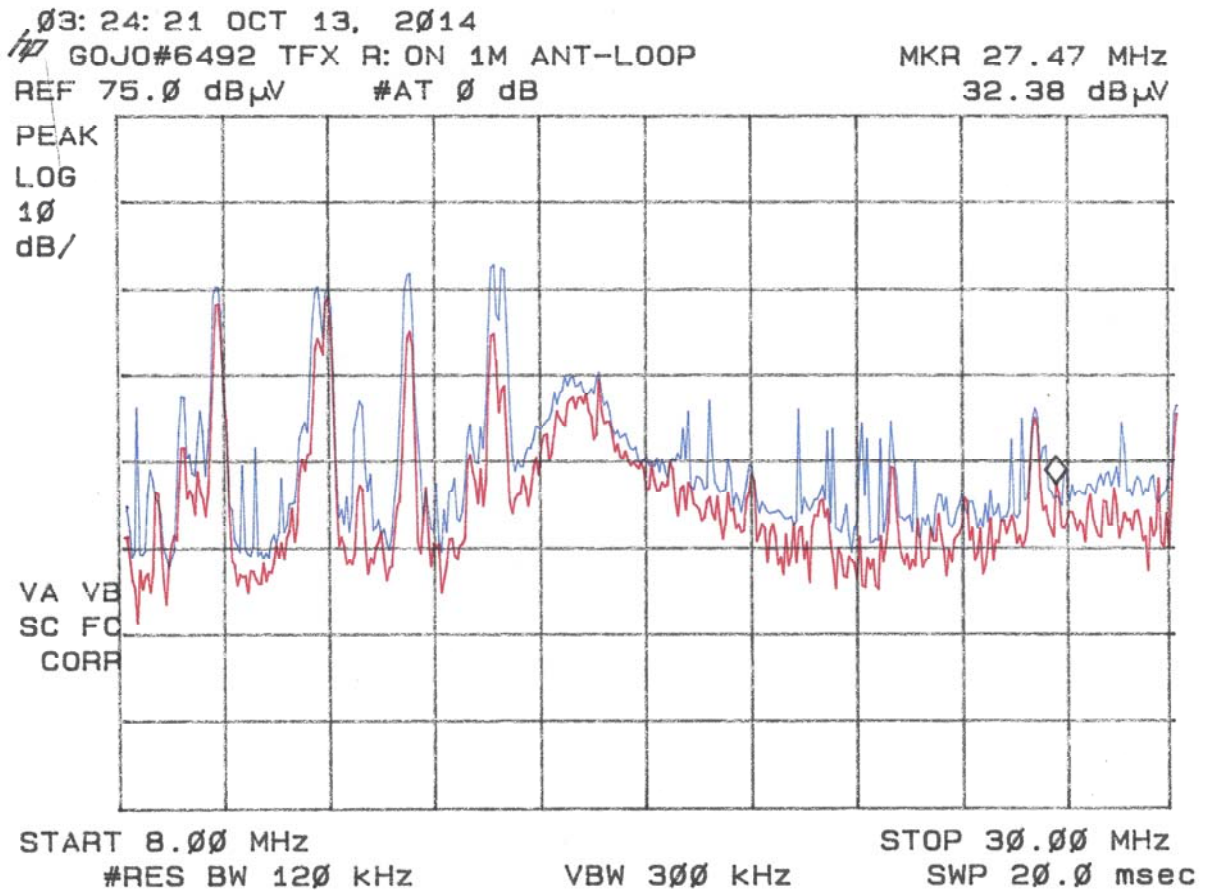
Project Number:  
6492



*Diversified Test Technologies Test Report*

GOJO Industries  
Sanitizer Dispenser TFX unit

Project Number:  
6492



# Certificate of Conformity

DTT lab, has tested the product to the current appropriate standards and finds that the product is in compliance with those requirements.

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**Rules and Regulations:**

United States 47 Code of Federal Regulations Part 15 – Electromagnetic Emissions, Class B Devices

**Standards:**

ANSI C63.4-2009, Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical Equipment in the Range of 9kHz to 40GHz.

**Section 11.0 Measurement of Information Technology Equipment (ITE)**

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**Manufacturer's Name:**

**GOJO Industries**

**Manufacturer's Address:**

One GOJO Plaza, Suite 500  
Akron, OH 44311

**Product:**

**Sanitizer Dispenser**

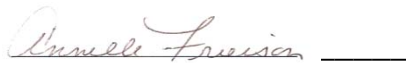
**Model Number:**

**TFX unit**

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This Certificate of Compliance issued November 6, 2014 is valid for the test sample of the product specified above and that it conforms to the Directive(s) and Standard(s).

**Signature:**



**Annelie Frierson**

**Vice President**

**DTT lab**

**4675 Burr Drive**

**Liverpool, NY 13088**

**Phone: 315-457-0245**

**Fax: 315-457-0428**