Itron, Inc.

TEST REPORT FOR

Gas Endpoint Model: 500GC

Tested to The Following Standard:

FCC Part 15 Subpart C Section(s)

15.249

Report No.: 98972-5

Date of issue: September 6, 2016



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:

Itron, Inc. Terri Rayle

2111 N. Molter Road CKC Laboratories, Inc.
Liberty Lake, WA 99019 5046 Sierra Pines Drive
Mariposa, CA 95338

REPRESENTATIVE: Jay Holcomb Project Number: 98971

Customer Reference Number: 104538

DATE OF EQUIPMENT RECEIPT:August 23, 2016 **DATE(S) OF TESTING:**August 23 - 25, 2016

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.

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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. 110 Olinda Place Brea, CA 92823

Software Versions

CKC Laboratories Proprietary Software	Version	
EMITest Emissions	5.03.02	

Site Registration & Accreditation Information

Location	CB#	TAIWAN	CANADA	FCC	JAPAN
Brea D	US0060	SL2-IN-E-1146R	3082D-2	100638	A-0147

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SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C - 15.249

Test Procedure	Description	Modifications	Results
15.215(c)	Occupied Bandwidth	NA	NP
15.249(a)	.5.249(a) Field Strength of Fundamental		Pass
15.249(a)	Field Strength of Spurious Emissions	NA	Pass
15.207	AC Conducted Emissions	NA	NA1

NA = Not Applicable

NA1 = Not applicable because the EUT only operates on battery power.

NP = CKC Laboratories was not contracted to perform test.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions			
No modifications were made during testing.			

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing

Summary of Conditions	
None	

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EQUIPMENT UNDER TEST (EUT)

During testing numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
Gas Endpoint	Itron, Inc.	500GC	NA

Support Equipment:

Device	Manufacturer	Model #	S/N
None			

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type:	Stand-Alone Equipment
Modulation Type(s):	ООК
Maximum Duty Cycle:	See supplemental report
Antenna Type(s) and Gain:	See supplemental report
Antenna Connection Type:	Integral
Nominal Input Voltage:	Battery, 6.3Vdc
Firmware / Software used for Test:	App Version: 1.9.13.174
Filliwate / Software used for Test.	CSL Version: 2.9.1.1

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FCC Part 15 Subpart C

15.249(a) Field Strength of Fundamental

Test Data Summary - Voltage Variations					
Modulation Waxiiniinii Waxiiniinii					Max Deviation from V _{Nominal} (dB)
908	ООК	NA	93.6	NA	NA

Test performed using operational mode with the highest output power, representing worst case.

NA = Not Applicable, tests were performed using a fresh battery

Parameter Definitions:

Measurements performed at input voltage according to manufacturer specification.

		1 0 0
	Parameter	Value
	V _{Nominal} :	6.3VDC battery
V _{Minimum} :		NA
	V _{Maximum} :	NA

NA = Not applicable, tests were performed using a fresh battery

Test Data Summary - Voltage Variations

This equipment is battery powered and manufacturer declares the equipment cannot operate while charging. Power output tests were performed using a fresh battery.

Test Data Summary – Radiated Field Strength Measurement					
Frequency (MHz)	Modulation Ant. Type Measured Limit (dBuV/m @ 3m) (dBuV/m @ 3m)				Results
908	OOK	Integral	93.6	≤94	Pass

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Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: Itron, Inc.

Specification: 15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter) Work Order #: 98972 Date: 8/23/2016 Test Type: Time: 15:00:50 **Maximized Emissions**

Tested By: Sequence#: 1 Don Nguyen

Software: EMITest 5.03.02

Equipment Tested:

Device Manufacturer Model # S/N Configuration 1

Support Equipment:

Device Manufacturer Model # S/N Configuration 1

Test Conditions / Notes:

The EUT is placed on a Styrofoam platform at 0.8m in height for measurement below 1GHz and 1.5m in height for measurement above 1GHz. The EUT is turned on and set in transmitting mode.

The EUT has fresh battery installed. Nominal input voltage is 6.3Vdc.

The EUT is tested in preferred orientation declared by the manufacturer.

Operating frequency: 908MHz

Modulation: OOK Rated power output: +0dBm

Frequency range of measurement = fundamental RBW=120 kHz, VBW=300 kHz (peak detector) RBW=120 kHz, VBW=1MHz (QP detector)

Test environment conditions:

Temperature: 26°C Relative Humidity: 46%

Pressure: 100kPa

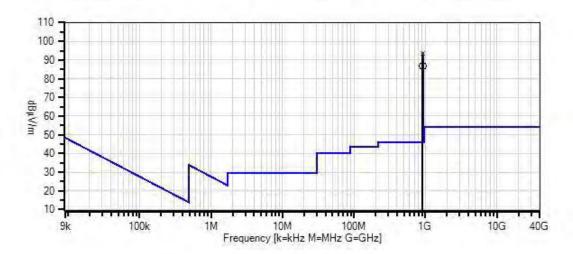
Site D

Test Method: ANSI C63.10 (2013)

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Itron, Inc WO#: 98972 Sequence#: 1 Date: 8/23/2016 15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter) Test Distance: 3 Meters Horiz



Readings

Peak Readings

QP Readings Average Readings

Ambient

Software Version: 5.03.02

1 - 15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter)

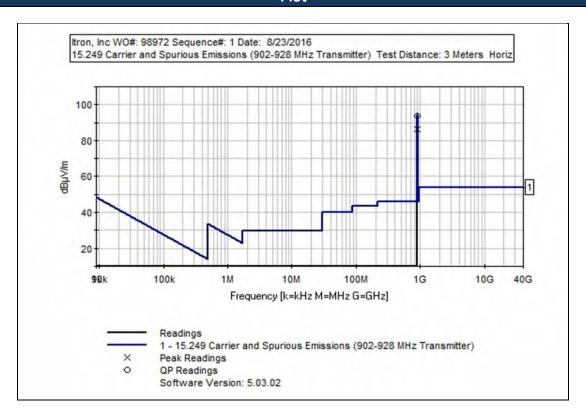
Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00010	Preamp	8447D	3/14/2016	3/14/2018
T2	AN01992	Biconilog Antenna	CBL6111C	12/4/2014	12/4/2016
T3	ANP04382	Cable	LDF-50	6/6/2016	6/6/2018
T4	ANP05555	Cable	RG223/U	4/5/2016	4/5/2018
T5	ANP05569	Cable	RG-214/U	4/4/2016	4/4/2018
T6	AN02467	Spectrum Analyzer	E7405A	5/10/2016	5/10/2017
T7	ANP05283	Attenuator	ATT-0218-06-	5/5/2016	5/5/2018
			NNN-02		

Meas	Measurement Data:		Reading listed by margin.			Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
	1 908.000M	85.2	-27.6	+22.7	+3.3	+0.5	+0.0	93.6	94.0	-0.4	Horiz
	QP		+3.6	+0.0	+5.9						
,	^ 908.000M	88.1	-27.6	+22.7	+3.3	+0.5	+0.0	96.5	94.0	+2.5	Horiz
			+3.6	+0.0	+5.9						
	3 908.000M	78.2	-27.6	+22.7	+3.3	+0.5	+0.0	86.6	94.0	-7.4	Vert
			+3.6	+0.0	+5.9						



Plot





Test Setup Photos







Test Setup Photos







15.249(a) Radiated Emissions

Test Data

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: Itron, Inc.

Specification: Use the specification of the specifi

Tested By: Don Nguyen
Software: EMITest 5.03.02

Equipment Tested:

Device Manufacturer Model # S/N
Configuration 1

Support Equipment:

Device Manufacturer Model # S/N
Configuration 1

Test Conditions / Notes:

The EUT is placed on Styrofoam platform at 0.8m in height for measurement below 1GHz and 1.5m in height for measurement above 1GHz. The EUT is turned on and set in transmitting mode.

The EUT has fresh battery installed. Nominal input voltage is 6.3Vdc. The EUT is tested in preferred orientation declared by the manufacturer.

Operating frequency: 908MHz

Modulation: OOK

Rated power output: +0dBm

Frequency range of measurement = 9kHz-9.28GHz 9 kHz - 150 kHz, RBW=200 Hz, VBW=600 Hz 150 kHz -30 MHz, RBW=9 kHz, VBW=27 kHz

30 MHz - 1000MHz, RBW=120 kHz, VBW=300 kHz (peak detector), RBW=120 kHz, VBW=1MHz (QP detector)

1000 MHz - 9280MHz, RBW=1 MHz, VBW=3 MHz

Test environment conditions:

Temperature: 26°C Relative Humidity: 46%

Pressure: 100kPa

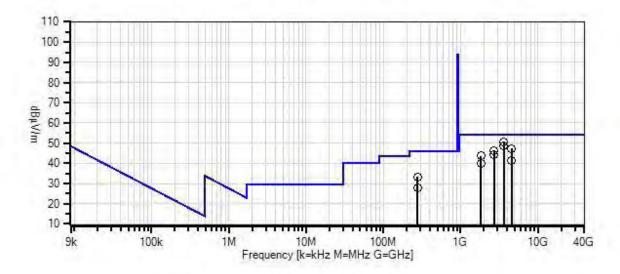
Site D

Test Method: ANSI C63.10 (2013)

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Itron, Inc WO#: 98972 Sequence#: 2 Date: 8/25/2016 15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter) Test Distance: 3 Meters Horiz



- Readings
- O Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient

Software Version: 5.03.02

- 1 - 15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter)



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00314	Loop Antenna	6502	5/20/2016	5/20/2018
T1	AN00010	Preamp	8447D	3/14/2016	3/14/2018
T2	AN01992	Biconilog Antenna	CBL6111C	12/4/2014	12/4/2016
T3	ANP05555	Cable	RG223/U	4/5/2016	4/5/2018
T4	ANP05569	Cable	RG-214/U	4/4/2016	4/4/2018
T5	ANP05283	Attenuator	ATT-0218-06-	5/5/2016	5/5/2018
			NNN-02		
	AN02467	Spectrum Analyzer	E7405A	5/10/2016	5/10/2017
T6	ANP04382	Cable	LDF-50	6/6/2016	6/6/2018
T7	AN00787	Preamp	83017A	6/10/2015	6/10/2017
T8	AN01646	Horn Antenna	3115	3/4/2016	3/4/2018
Т9	ANP05563	Cable	ANDL-1-PNMN-	6/6/2016	6/6/2018
			48		
T10	ANP06977	Cable	PHASEFLEX	4/5/2016	4/5/2018
			EJR01N01036.0		
T11	AN03169	High Pass Filter	HM1155-11SS	6/24/2015	6/24/2017

Measu	irement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11						
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	3631.996M	52.0	+0.0	+0.0	+0.0	+0.0	+0.0	50.4	54.0	-3.6	Horiz
			+0.0	+7.3	-40.4	+27.8					
			+3.0	+0.6	+0.1						
2	3631.996M	50.1	+0.0	+0.0	+0.0	+0.0	+0.0	48.5	54.0	-5.5	Vert
			+0.0	+7.3	-40.4	+27.8					
			+3.0	+0.6	+0.1						
3	4539.996M	45.4	+0.0	+0.0	+0.0	+0.0	+0.0	47.4	54.0	-6.6	Vert
			+0.0	+8.5	-40.2	+29.9					
			+3.2	+0.5	+0.1						
4	2723.996M	50.3	+0.0	+0.0	+0.0	+0.0	+0.0	46.2	54.0	-7.8	Vert
			+0.0	+6.4	-40.0	+26.3					
			+2.6	+0.4	+0.2						

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5	2723.996M	48.6	+0.0	+0.0	+0.0	+0.0	+0.0	44.5	54.0	-9.5	Horiz
			+0.0	+6.4	-40.0	+26.3					
			+2.6	+0.4	+0.2						
6	1815.996M	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	43.6	54.0	-10.4	Vert
			+0.0	+5.1	-39.4	+23.8					
			+2.2	+0.5	+0.3						
7	276.250M	37.4	-26.6	+13.0	+0.2	+1.8	+0.0	33.3	46.0	-12.7	Horiz
			+5.8	+1.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
8	4539.996M	39.3	+0.0	+0.0	+0.0	+0.0	+0.0	41.3	54.0	-12.7	Horiz
			+0.0	+8.5	-40.2	+29.9					
			+3.2	+0.5	+0.1						
9	1815.996M	47.6	+0.0	+0.0	+0.0	+0.0	+0.0	40.1	54.0	-13.9	Horiz
			+0.0	+5.1	-39.4	+23.8					
			+2.2	+0.5	+0.3						
10	276.750M	32.0	-26.6	+13.0	+0.2	+1.8	+0.0	27.9	46.0	-18.1	Vert
			+5.8	+1.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						



Band Edge

	Band Edge Summary							
Frequency (MHz) Modulation Ant. Type Field Strength (dBuV/m @3m) (dBuV/m @3m)					Results			
902	ООК	Integral	36.5	<46	Pass			
928	ООК	Integral	40.7	<46	Pass			

Test Setup / Conditions / Data

CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112 Test Location:

Customer:

15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter) Specification: Work Order #: 98972 Date: 8/23/2016 Test Type: **Maximized Emissions** Time: 15:32:10 Tested By: Don Nguyen Sequence#: 2

Software: EMITest 5.03.02

Equipment Tested:

S/N Device Manufacturer Model # Configuration 1

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on a Styrofoam platform at 0.8m in height for measurement below 1GHz and 1.5m in height for measurement above 1GHz. The EUT is turned on and set in transmitting mode.

The EUT has fresh battery installed. Nominal input voltage is 6.3Vdc. The EUT is tested in preferred orientation declared by the manufacturer.

Operating frequency: 908MHz

Modulation: OOK

Rated power output: +0dBm

Frequency range of measurement = fundamental RBW=120 kHz, VBW=300 kHz (peak detector) RBW=120 kHz, VBW=1MHz (QP detector)

Test environment conditions:

Temperature: 26°C Relative Humidity: 46%

Pressure: 100kPa

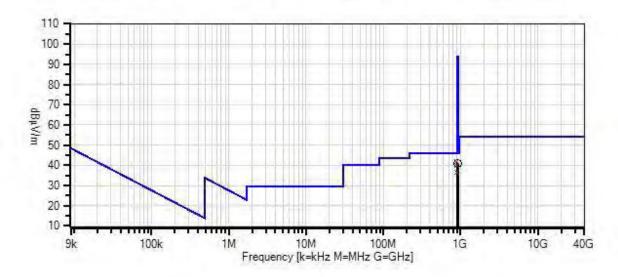
Site D

Test Method: ANSI C63.10 (2013)

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Itron, Inc WO#: 98972 Sequence#: 2 Date: 8/23/2016 15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter) Test Distance: 3 Meters Horiz



- Readings
- O Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient

Software Version: 5.03.02

- 1 - 15.249 Carrier and Spurious Emissions (902-928 MHz Transmitter)



Test Equipment:

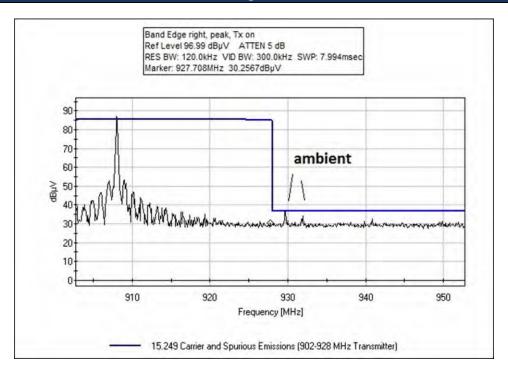
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00010	Preamp	8447D	3/14/2016	3/14/2018
T2	AN01992	Biconilog Antenna	CBL6111C	12/4/2014	12/4/2016
T3	ANP04382	Cable	LDF-50	6/6/2016	6/6/2018
T4	ANP05555	Cable	RG223/U	4/5/2016	4/5/2018
T5	ANP05569	Cable	RG-214/U	4/4/2016	4/4/2018
T6	AN02467	Spectrum Analyzer	E7405A	5/10/2016	5/10/2017
T7	ANP05283	Attenuator	ATT-0218-06-	5/5/2016	5/5/2018
			NNN-02		

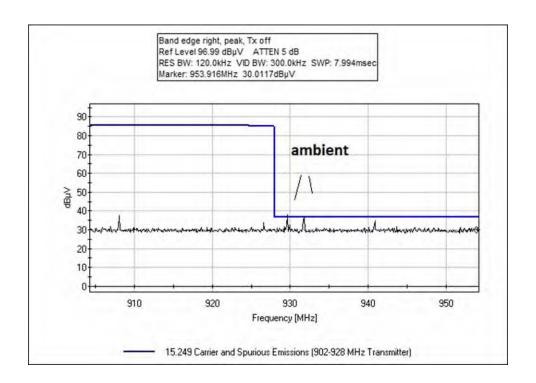
Measu	rement Data:	Re	eading lis	ted by ma	argin.	Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	901.775M	33.4	-27.6	+22.6	+3.3	+0.5	+0.0	41.7	46.0	-4.3	Horiz
	QP		+3.6	+0.0	+5.9						
^	901.775M	40.4	-27.6	+22.6	+3.3	+0.5	+0.0	48.7	46.0	+2.7	Horiz
			+3.6	+0.0	+5.9						
3	928.000M	31.7	-27.5	+22.9	+3.4	+0.6	+0.0	40.7	46.0	-5.3	Horiz
			+3.7	+0.0	+5.9						
4	900.775M	31.8	-27.6	+22.6	+3.3	+0.5	+0.0	40.1	46.0	-5.9	Horiz
	QP		+3.6	+0.0	+5.9						
^	900.775M	38.5	-27.6	+22.6	+3.3	+0.5	+0.0	46.8	46.0	+0.8	Horiz
			+3.6	+0.0	+5.9						
6	902.000M	28.2	-27.6	+22.6	+3.3	+0.5	+0.0	36.5	46.0	-9.5	Horiz
	QP		+3.6	+0.0	+5.9						
^	902.000M	36.2	-27.6	+22.6	+3.3	+0.5	+0.0	44.5	46.0	-1.5	Horiz
			+3.6	+0.0	+5.9						

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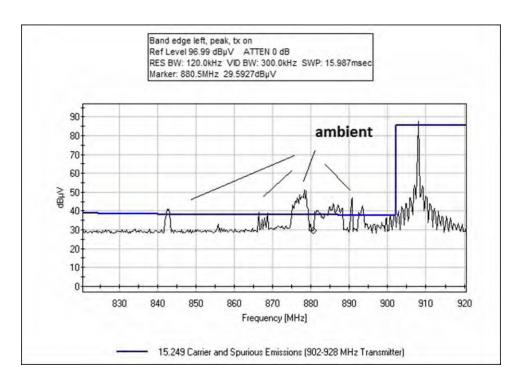


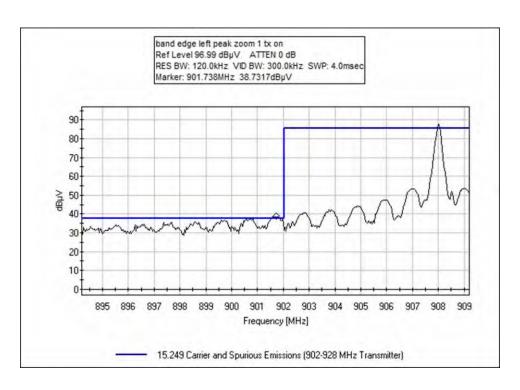
Band Edge Plots



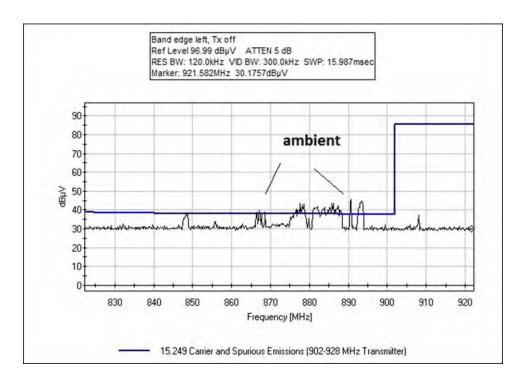


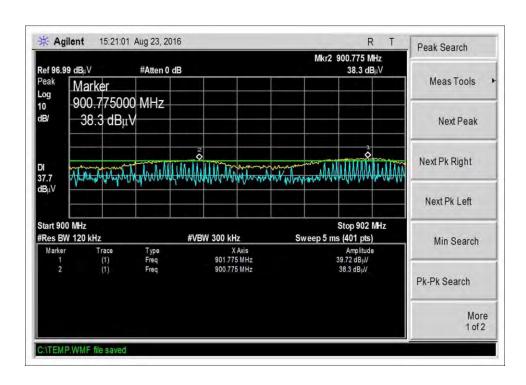




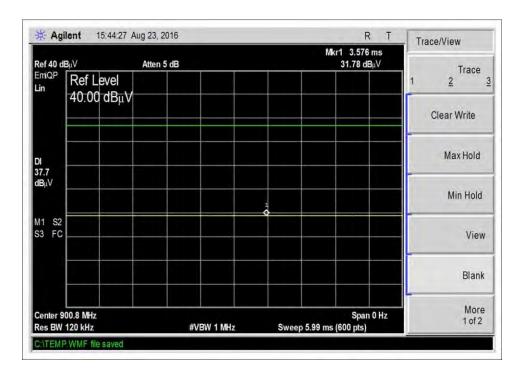


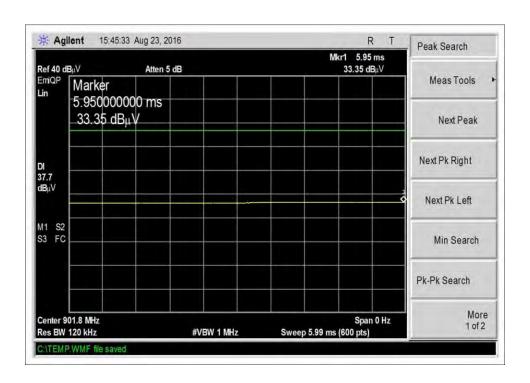














Test Setup Photos













SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in $dB\mu V/m$, the spectrum analyzer reading in $dB\mu V$ was corrected by using the following formula. This reading was then compared to the applicable specification limit. Individual measurements were compared with the displayed limit value in the margin column. The margin was calculated based on subtracting the limit value from the corrected measurement value; a positive margin represents a measurement exceeding the limit, while a negative margin represents a measurement less than the limit.

	SAMPLE CALCULATIONS								
	Meter reading	(dBμV)							
+	Antenna Factor	(dB/m)							
+	Cable Loss	(dB)							
-	Distance Correction	(dB)							
-	Preamplifier Gain	(dB)							
=	Corrected Reading	(dBμV/m)							

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TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE								
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING					
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz					
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz					
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz					
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz					
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz					

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or caret ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

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