
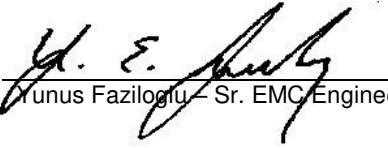




# Test Report



Curtis-Straus LLC, a wholly owned subsidiary of BV CPS

Report No	Q3573-1
Client	Alarm.com Incorporated
Address	8281 Greensboro Drive Suite 100 Tysons, VA 22102
Phone	(877) 389-4033
Items tested	ADC-IS-300-LP
FCC ID	YL6-143IS300
IC ID	9111A-143IS300
FRN	0020041976
Equipment Type	Digital Transmission System
Equipment Code	DTS
Emission Designator	941KF1D
FCC/IC Rule Parts	CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 1
Test Dates	January 3 to 4, 2017
Results	As detailed within this report
Prepared by	 Zachary Johnson / Test Engineer
Authorized by	 Yunus Faziloglu / Sr. EMC Engineer
Issue Date	<u>3/23/2017</u>
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 30 of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Form Final Report REV 12-07-15



## Summary

This test report supports an application for certification of a transmitter operating pursuant to: CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 1

The product is the ADC-IS-300-LP. It operates in the 912MHz – 924MHz frequency range.

We found that the product met the above requirements without modification. Test sample was received in good condition.

### Release Control Record

Issue No.	Reason for change	Date Issued
1	Original Release	March 23, 2017



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## Test Methodology

All testing was performed according to the following rules/procedures/documents;  
 FCC Part 15.247, RSS-247 Issue 1, RSS-Gen Issue 4, FCC KDB 558074 D01 DTS  
 Measurement Guidance v03r05 and ANSI C63.10-2013.

Radiated emissions were maximized by rotating the device around 3 orthogonal planes (X, Y and Z) as well as varying the test antenna's height and polarity.

RF measurements were performed at the antenna port. 3 channels were tested as follows:

- 912 MHz: Low Channel (#0)
- 918 MHz: Mid Channel (#19)
- 924 MHz: High Channel (#39)

EUT operating voltage is 3VDC from 2 AA batteries, therefore AC line conducted emissions testing was not required.

The following bandwidths were used during radiated spurious emissions testing.

Frequency	RBW	VBW
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz

## Product Tested - Configuration Documentation

EUT Configuration			
<b>Work Order:</b>	Q3573		
<b>Company:</b>	Alarm.com Incorporated		
<b>Company Address:</b>	8281 Greensboro Drive Suite 100		
	Tysons, VA, 22102		
<b>Contact:</b>	Emily Guthrie		
	<b>MN</b>	<b>PN</b>	<b>SN</b>
<b>EUT:</b>	ADC-IS-300-LP	ADC-IS-300-LP	Test Sample 1
<b>EUT Description:</b>	Battery powered image sensor		
<b>EUT Max Frequency:</b>	924 MHz (transmitter)		
<b>EUT Min Frequency:</b>	10 MHz (associated circuitry)		
<b>Software Operating Mode Description:</b>			
Unit was running FCC Firmware. Continuous max power transmission on 3 channels (912MHz, 918MHz and 924MHz). Modulated.			



## Statement of Conformity

ADC-IS-300-LP was found to conform to the following:

RSS-GEN	RSP-100	RSS 247	Part 15	Comments
6.3			15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
	3.1		15.19	The label is shown in the label exhibit.
	4		15.21	Information to the user is shown in the instruction manual exhibit.
			15.27	No special accessories are required for compliance.
3, 6.1			15.31	The EUT was tested in accordance with the measurement standards in this section.
6.13			15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
8.1			15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
8.3			15.203	The EUT has an SMD Helical antenna with 0dBi gain
8.10			15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable
8.8			15.207	N/A. EUT is battery powered
			15.247	The unit complies with the requirements of 15.247
		RSS 247		The unit complies with the requirements of RSS-247
6.6				Occupied Bandwidth measurements were made.

## Modifications Required for Compliance

No modifications were required for compliance.

# Test Results

## DTS Bandwidth

Limit: The minimum 6 dB bandwidth shall be at least 500 kHz. [15.247(a) (2)]

### MEASUREMENTS / RESULTS

6dB Bandwidth				
Date: Jan 4 2017		Company: Alarm.com Inc.		Work Order: Q3573
Engineer: YF / ZJ		EUT: ADC-IS-300-LP		EUT Operating Voltage/Frequency: 3VDC Battery
Temp: 20.9°C		Humidity: 33%		Pressure: 987mbar
Frequency Range: 912MHz-924MHz			Measurement Type: Conducted	
Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 8.2				
Notes:				
Frequency (MHz)	Reading (kHz)	6dB Bandwidth		
		Limit (kHz)	Margin (kHz)	Result (Pass/Fail)
912	700.1	≥500	200	Pass
918	694.4	≥500	194	Pass
924	693.2	≥500	193	Pass
Test Site: EMC-4		Cable: UFL to SMA dongle (client supplied) Attenuator A2121		
Analyzer: 1170725		Copyright Curtis-Straus LLC 2000		

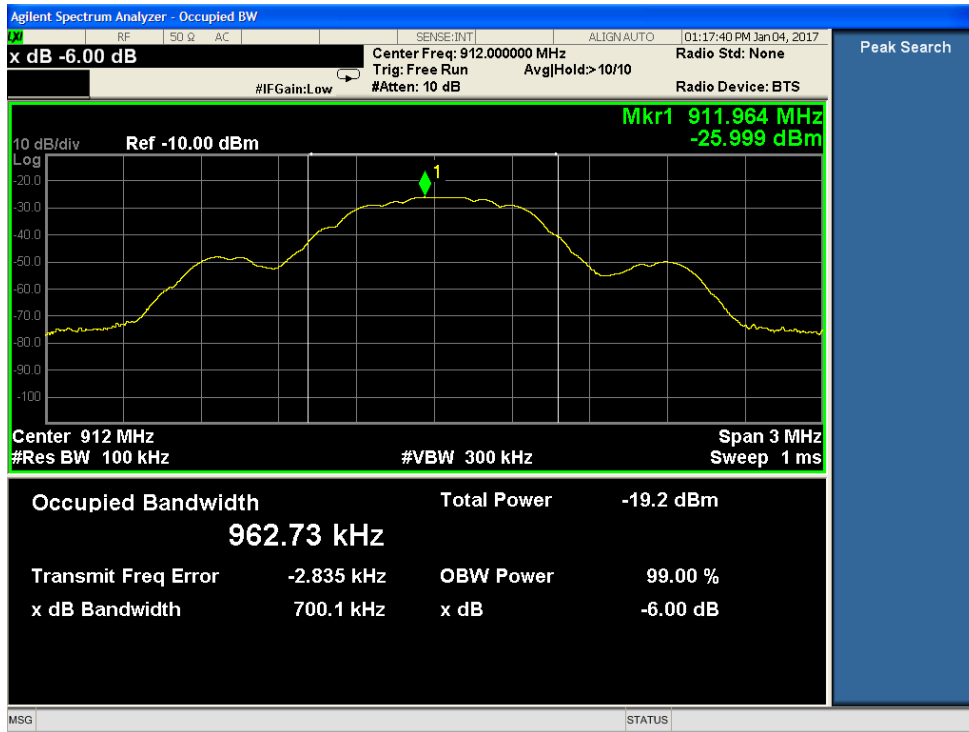
Rev. 1/21/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	

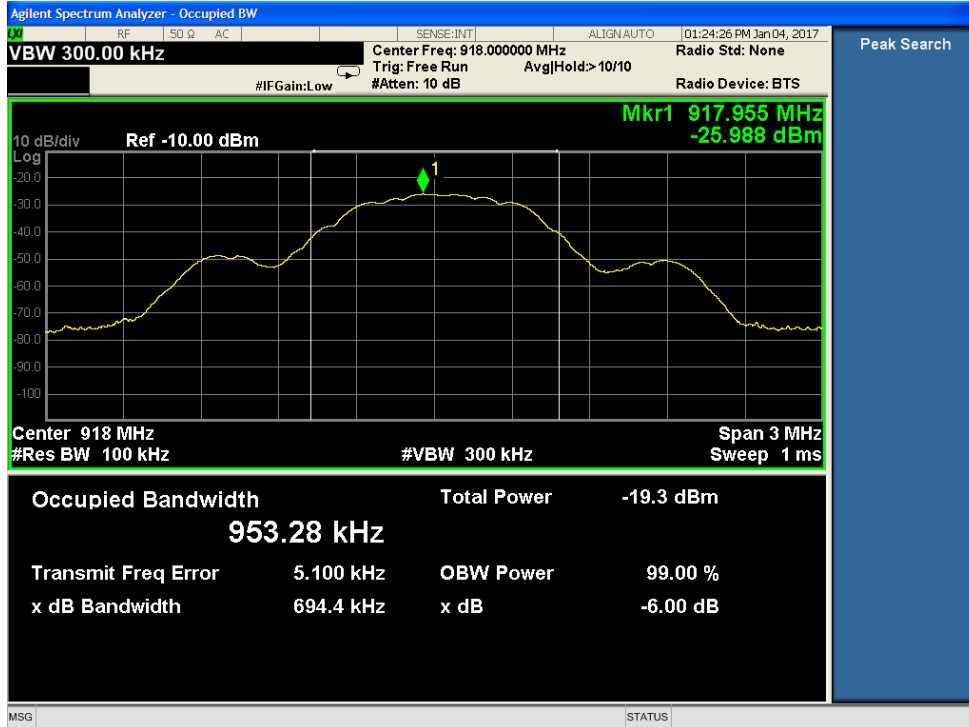
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOT(S)

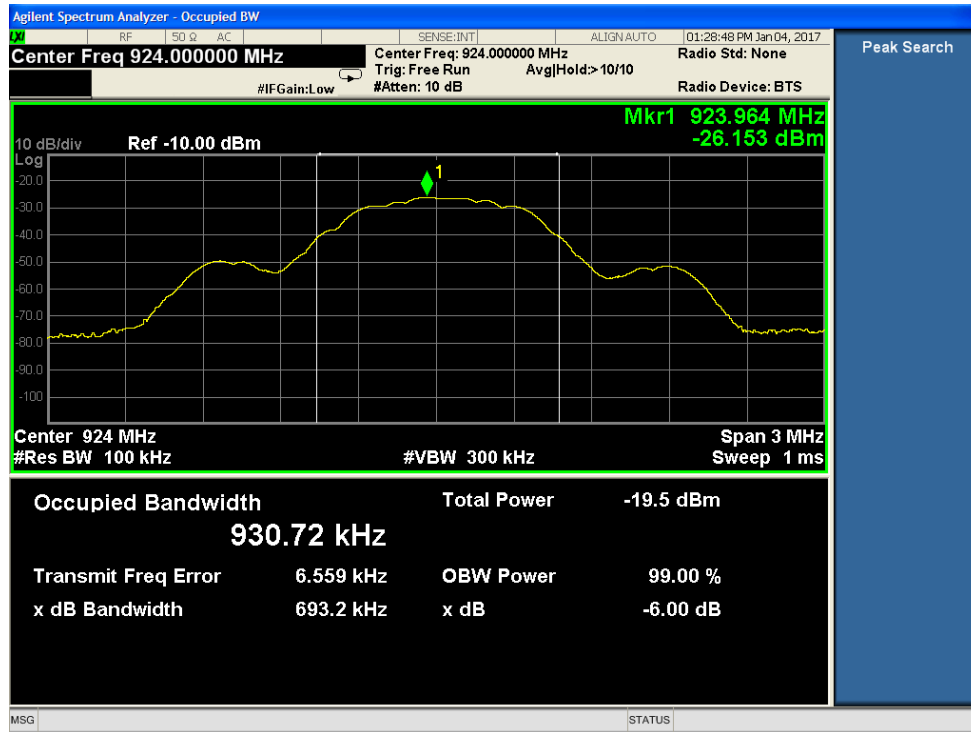


6dB Bandwidth at low channel



6dB Bandwidth at center channel





6dB Bandwidth at high channel

### Peak Output Power

#### LIMIT

Conducted Output Power

1 Watt

[15.247(b) (3)]

### MEASUREMENTS / RESULTS

Peak Output Power							
Date: Jan 4 2017		Company: Alarm.com Inc.			Work Order: Q3573		
Engineer: YF / ZJ		EUT: ADC-IS-300-LP			EUT Operating Voltage/Frequency: 3VDC Battery		
Temp: 20.9°C		Humidity: 33%		Pressure: 987mbar			
Frequency Range: 912MHz-924MHz				Measurement Type: Conducted			
Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 9.1.2							
Notes:							
Frequency (MHz)	Peak Reading (dBm)	Cable Loss (dB)	Attenuator Loss (dB)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)
912	-21.78	1.0	29.4	8.62	30.0	-21.38	Pass
918	-21.87	1.0	29.4	8.53	30.0	-21.47	Pass
924	-22.19	1.0	29.4	8.21	30.0	-21.79	Pass
Test Site: EMC-4		Cable: UFL to SMA dongle (client supplied)			Attenuator: A2121		
Analyzer: 1170725		Copyright Curtis-Straus LLC 2000					
Peak Output Power (dBm) = Peak Reading (dBm) + Cable Loss (dB) + Attenuator Loss (dB)							

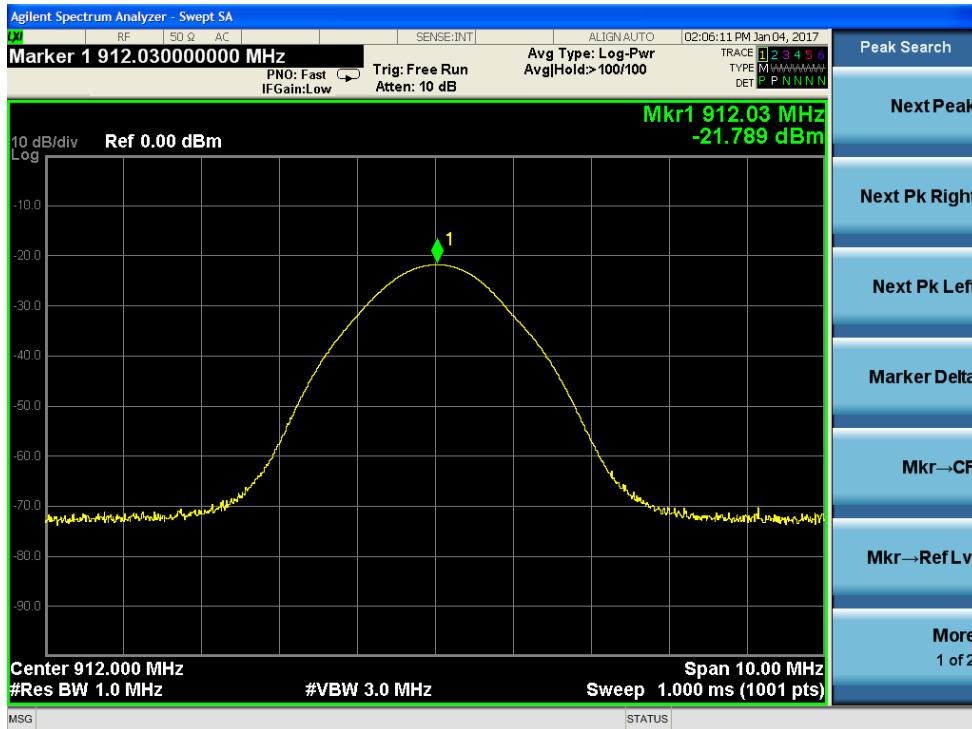
Rev. 1/21/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	

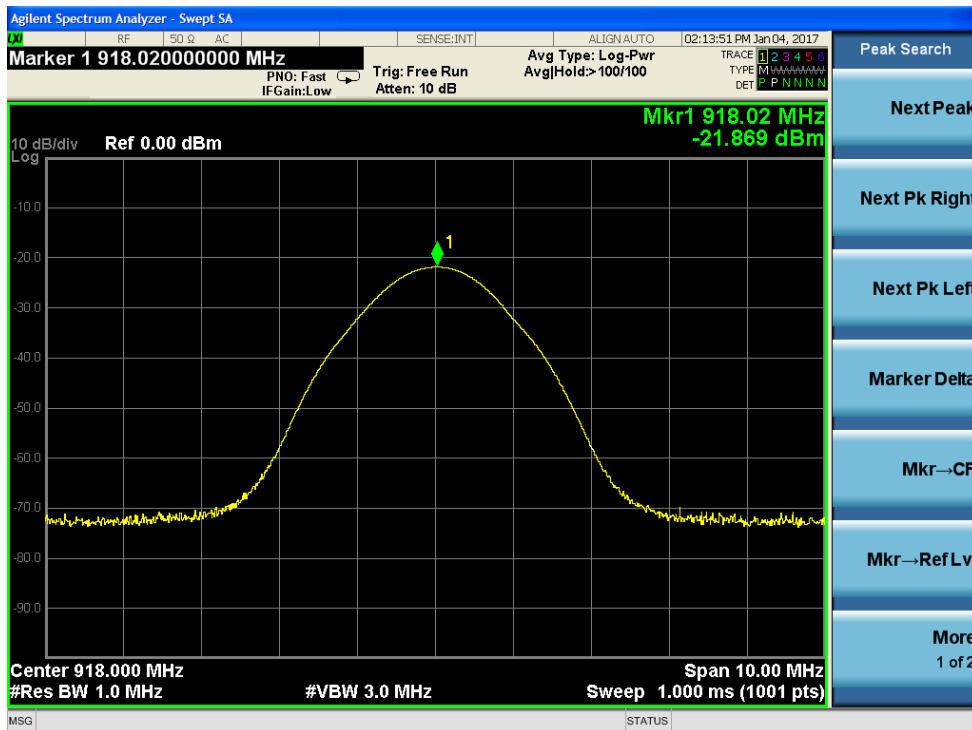
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOT(S)

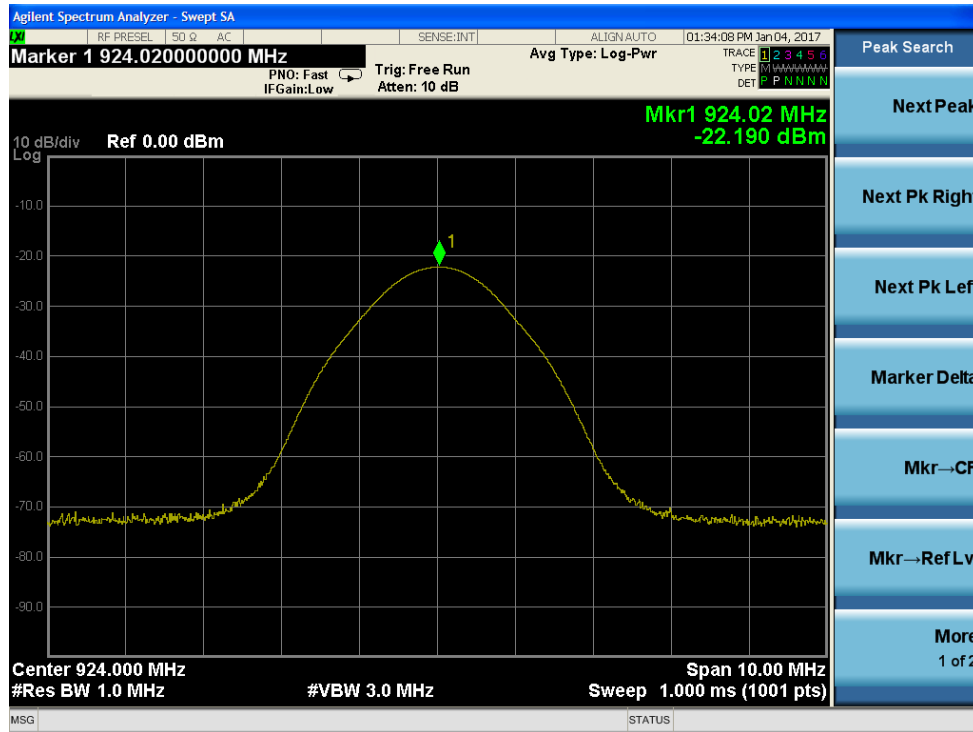


Peak Output Power at low channel



Peak Output Power at center channel





Peak Output Power at high channel

## Band Edge Measurements

### MEASUREMENTS / RESULTS

Conducted Bandedge				
Date: Jan 4 2017	Company: Alarm	Work Order: Q3573		
Engineer: YF / ZJ	EUT: ADC-IS-300-LP	EUT Operating Voltage/Frequency: 3VDC Battery		
Temp: 20.9°C	Humidity: 33%	Pressure: 987mbar		
Frequency Range: 912MHz-924MHz		Measurement Type: Conducted		
Notes:				
	Bandedge (dBm)	Delta (dB)	Limit (dB)	(Pass/Fail)
Low Bandedge	-81.86	56.7	≥ 20	Pass
High Bandedge	-82.89	57.39	≥ 20	Pass
Test Site: EMC-4	Cable: UFL to SMA dongle (client supplied)	Attenuator: A2121		Copyright Curtis-Straus LLC 2000
Analyzer: 1170725				

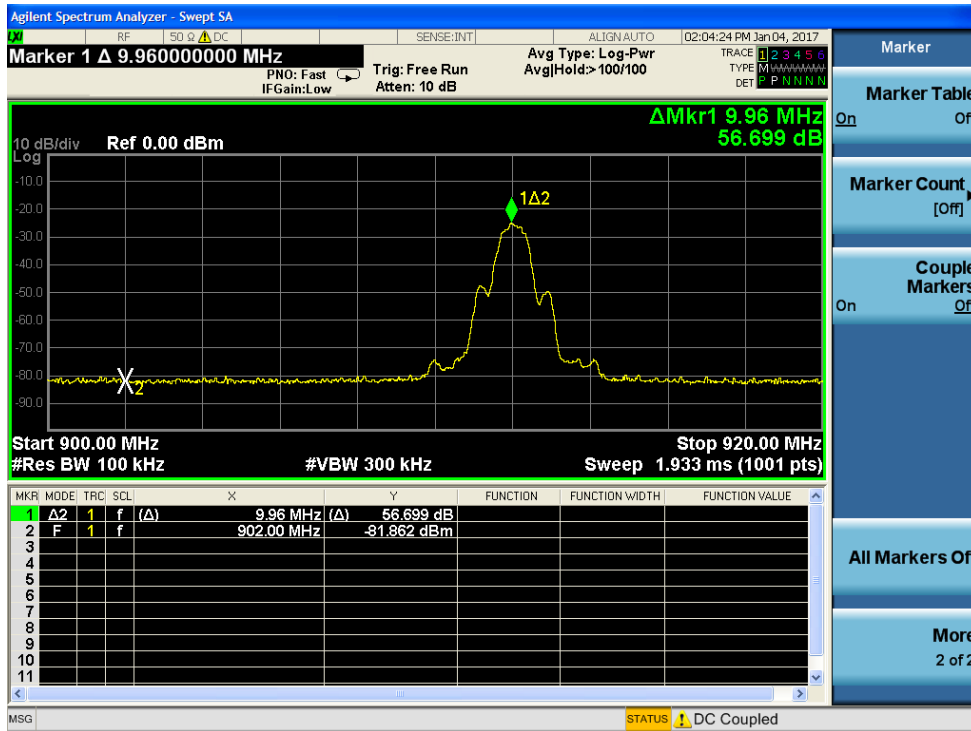
Rev. 1/21/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	

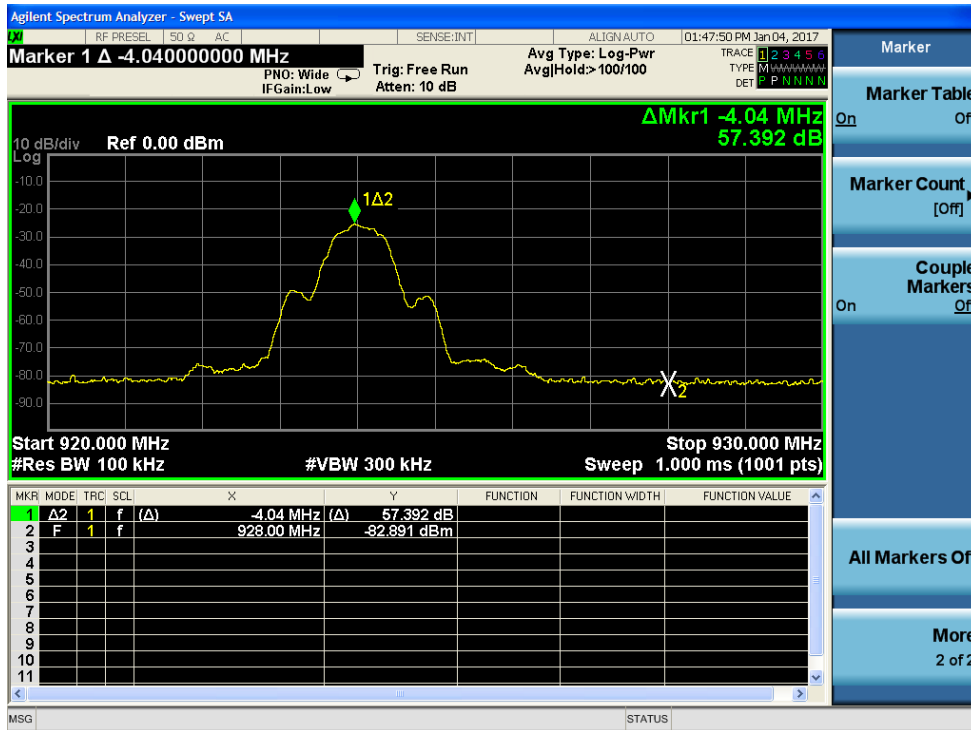
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOT(S)



902MHz Low Band Edge with Transmission at 912MHz



928MHz High Band Edge with Transmission at 924MHz



## Duty Cycle Correction Factor

### MEASUREMENTS / CALCULATIONS

**DDCF = 20log(T<sub>on</sub> / T<sub>on+off</sub>)**

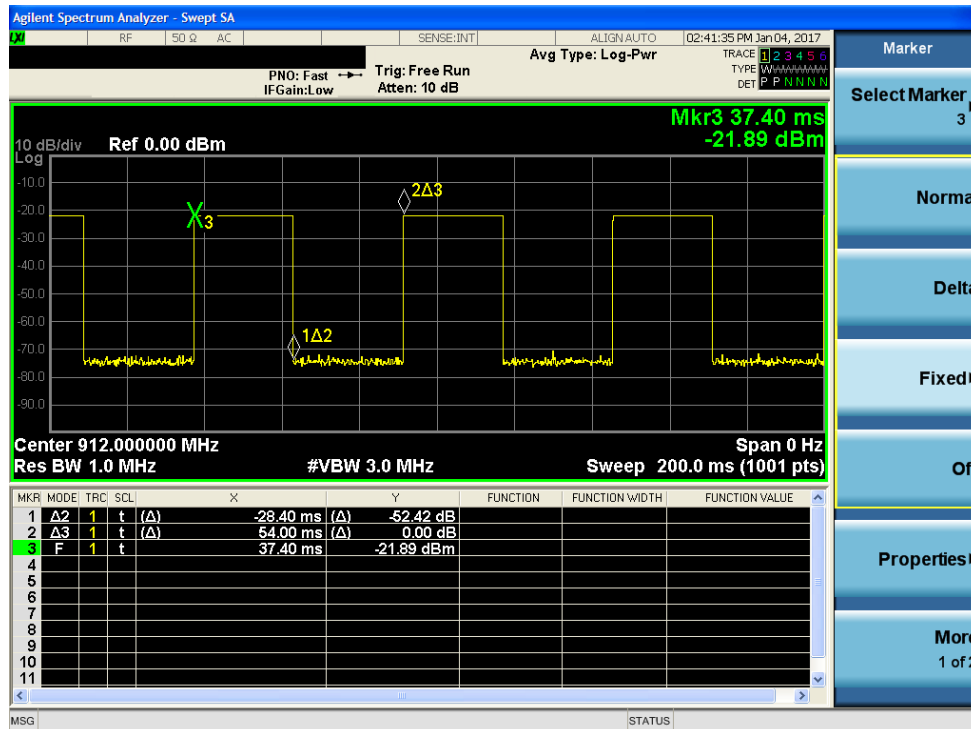
ON TIME	28.4 ms
ON + OFF TIME	54 ms
DCCF	52.59259 %
DCCF	-5.58151 dB

Rev. 1/21/2017

Spectrum Analyzers / Receivers/Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

### PLOTS



Duty Cycle



### Radiated Spurious Emissions

#### LIMITS

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

[15.247(d)]

#### MEASUREMENTS / RESULTS

Radiated Emissions Table												
Date: 03-Jan-17			Company: Alarm.com Inc.				Work Order: Q3573					
Engineer: Zac Johnson			EUT Desc: ADC-IS-300-LP				EUT Operating Voltage/Frequency: 3.0V DC					
Temp: 22.4°C			Humidity: 30%				Pressure: 1013mBar			Battery		
Frequency Range: 902-928MHz						Measurement Distance: 3m						
Notes: All 3 orientations of EUT were investigated						EUT Max Freq: 924MHz						
Worst Case Orientation Z, Bandedge Readings												
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBµV/m)	---			FCC Class B		
							Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
H	902.0	13.1	0.0	22.6	2.2	37.9	---	---	---	46.0	-8.1	Pass
V	902.0	11.6	0.0	22.6	2.2	36.4	---	---	---	46.0	-9.6	Pass
H	928.0	14.8	0.0	22.4	2.0	39.2	---	---	---	46.0	-6.8	Pass
V	928.0	12.2	0.0	22.4	2.0	36.6	---	---	---	46.0	-9.4	Pass
<b>Table Result:</b> Pass						by -6.8 dB			<b>Worst Freq:</b> 928.0 MHz			
Test Site: EMI Chamber 2			Cable 1: Asset #2052			Cable 2: Asset #2053			Cable 3: ---			
Analyzer: Rental SA#3			Preamp: none			Antenna: Red-White			Preselector: ---			
CSsoft Radiated Emissions Calculator v 1.017.180						Copyright Curtis-Straus LLC 2000						
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												

Rev. 12/29/2016

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range	Cat	Calibration Due	Calibrated on	
EMI Chamber 2	719150	2762A-7	A-0015	30-1000MHz	II	3/22/2017	3/22/2015	
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red	0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	II	1/29/2017	1/29/2016
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-White Bilog	30-2000MHz	JB1	Sunol	A091604-1	1105	I	8/12/2017	8/12/2015
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	
TH A#2081	HTC-1	HDE		2081	II	4/5/2017	4/5/2016	
Cables	Range	Mfr	Cat	Calibration Due	Calibrated on			
Asset #2052	9kHz - 18GHz	Florida RF	II	3/2/2017	3/2/2016			
Asset #2053	9kHz - 18GHz	Florida RF	II	10/1/3017	10/30/2016			

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.





Radiated Emissions Table												
Date: 03-Jan-17			Company: Alarm.com Inc.				Work Order: Q3573					
Engineer: Zac Johnson			EUT Desc: ADC-IS-300-LP				EUT Operating Voltage/Frequency: 3.0V DC					
Temp: 22.4°C			Humidity: 30%				Pressure: 1013mBar			Battery		
Frequency Range: 30-1000MHz							Measurement Distance: 3m					
Notes: All 3 orientations of EUT were investigated							EUT Max Freq: 924MHz					
Worst Case Orientation Z												
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBµV/m)	---			FCC Class B		
							Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
V	51.3	36.8	25.3	7.6	0.4	19.5	---	---	---	40.0	-20.5	Pass
V	58.1	38.9	25.3	7.4	0.5	21.5	---	---	---	40.0	-18.5	Pass
H	60.1	29.8	25.3	7.6	0.5	12.6	---	---	---	40.0	-27.4	Pass
H	131.9	31.2	25.3	14.1	0.8	20.8	---	---	---	43.5	-22.7	Pass
H	184.2	35.9	25.2	11.3	1.0	23.0	---	---	---	43.5	-20.5	Pass
V	227.9	33.2	25.2	11.1	1.0	20.1	---	---	---	46.0	-25.9	Pass
H	466.5	35.8	25.5	17.3	1.4	29.0	---	---	---	46.0	-17.0	Pass
V	466.5	32.6	25.5	17.3	1.4	25.8	---	---	---	46.0	-20.2	Pass
<b>Table Result:</b> Pass							by -17.0 dB			<b>Worst Freq:</b> 466.5 MHz		
Test Site: EMI Chamber 2			Cable 1: Asset #2052				Cable 2: Asset #2053			Cable 3: ---		
Analyzer: Rental SA#3			Preamp: Red				Antenna: Red-White			Preselector: ---		
CSsoft Radiated Emissions Calculator v 1.017.180			Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor				Copyright Curtis-Straus LLC 2000					

Rev.	12/29/2016													
<b>Spectrum Analyzers / Receivers / Preselectors</b>			<b>Range</b>	<b>MN</b>	<b>Mfr</b>	<b>SN</b>	<b>Asset</b>	<b>Cat</b>	<b>Calibration Due</b>	<b>Calibrated on</b>				
Rental MXE EMI Receiver(1170725)			20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016				
<b>Radiated Emissions Sites</b>			<b>FCC Code</b>	<b>IC Code</b>	<b>VCCI Code</b>	<b>Range</b>		<b>Cat</b>	<b>Calibration Due</b>	<b>Calibrated on</b>				
EMI Chamber 2			719150	2762A-7	A-0015	30-1000MHz		II	3/22/2017	3/22/2015				
<b>Preamps / Couplers Attenuators / Filters</b>			<b>Range</b>	<b>MN</b>	<b>Mfr</b>	<b>SN</b>	<b>Asset</b>	<b>Cat</b>	<b>Calibration Due</b>	<b>Calibrated on</b>				
Red			0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	II	1/29/2017	1/29/2016				
2130 BRP			0.009-18000MHz	BRM18770	Micro-Tronics	1	2130	II	1/6/2017	1/6/2016				
<b>Antennas</b>			<b>Range</b>	<b>MN</b>	<b>Mfr</b>	<b>SN</b>	<b>Asset</b>	<b>Cat</b>	<b>Calibration Due</b>	<b>Calibrated on</b>				
Red-White Bilog			30-2000MHz	JB1	Sunol	A091604-1	1105	I	8/12/2017	8/12/2015				
<b>Meteorological Meters</b>				<b>MN</b>	<b>Mfr</b>	<b>SN</b>	<b>Asset</b>	<b>Cat</b>	<b>Calibration Due</b>	<b>Calibrated on</b>				
Weather Clock (Pressure Only)				BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016				
TH A#2081				HTC-1	HDE		2081	II	4/5/2017	4/5/2016				
<b>Cables</b>			<b>Range</b>		<b>Mfr</b>			<b>Cat</b>	<b>Calibration Due</b>	<b>Calibrated on</b>				
Asset #2052			9kHz - 18GHz		Florida RF			II	3/2/2017	3/2/2016				
Asset #2053			9kHz - 18GHz		Florida RF			II	10/1/3017	10/30/2016				

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Table														
Date: 03-Jan-17			Company: Alarm.com Inc.				Work Order: Q3573							
Engineer: Zac Johnson			EUT Desc: ADC-IS-300-LP				EUT Operating Voltage/Frequency: 3.0V DC							
Temp: 22.4°C			Humidity: 30%				Pressure: 1013mBar			Battery				
Frequency Range: 1-6GHz							Measurement Distance: 3m							
Notes: All 3 orientations of EUT were investigated							EUT Max Freq: 924MHz							
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average		
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
H-Z	1670.0	50.9	50.9	37.3	29.7	4.1	47.4	47.4	74.0	-26.6	Pass	54.0	-6.6	Pass
H-Z	1865.0	50.3	50.3	37.4	30.9	4.2	48.0	48.0	74.0	-26.0	Pass	54.0	-6.0	Pass
V-Z	2062.0	49.7	49.7	37.3	31.9	4.6	48.9	48.9	74.0	-25.1	Pass	54.0	-5.1	Pass
V-Z	2415.0	49.0	49.0	37.5	32.3	5.0	48.8	48.8	74.0	-25.2	Pass	54.0	-5.2	Pass
V-Z	2454.0	48.5	48.5	37.5	32.4	5.1	48.5	48.5	74.0	-25.5	Pass	54.0	-5.5	Pass
H-Z	3648.0	52.7	47.1	37.9	33.3	5.9	54.0	48.4	74.0	-20.0	Pass	54.0	-5.6	Pass
V-Z	3648.0	52.9	47.3	37.9	33.3	5.9	54.2	48.6	74.0	-19.8	Pass	54.0	-5.4	Pass
H-Y	3648.0	52.0	46.4	37.9	33.3	5.9	53.3	47.7	74.0	-20.7	Pass	54.0	-6.3	Pass
V-Y	3648.0	53.5	47.9	37.9	33.3	5.9	54.8	49.2	74.0	-19.2	Pass	54.0	-4.8	Pass
H-Z	5780.0	44.4	44.4	36.4	35.2	8.1	51.3	51.3	74.0	-22.7	Pass	54.0	-2.7	Pass
<b>Table Result:</b> Pass							by -2.7 dB			<b>Worst Freq:</b> 5780.0 MHz				
Test Site: EMI Chamber 2			Cable 1: Asset #2052				Cable 2: Asset #2053			Cable 3: EMIP-HIGH-07				
Analyzer: Rental SA#3			Preamp: Asset #2111				Antenna: Blue Horn			Preselector: ---				
CSsoft Radiated Emissions Calculator v 1.017.180			Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor				Copyright Curtis-Straus LLC 2000							



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Radiated Emissions Table															
Date: 03-Jan-17				Company: Alarm.com Inc.				Work Order: Q3573							
Engineer: Zac Johnson				EUT Desc: ADC-IS-300-LP				EUT Operating Voltage/Frequency: 3.0V DC							
Temp: 22.4°C				Humidity: 30%				Pressure: 1013mBar			Battery				
Frequency Range: 6-10GHz							Measurement Distance: 1m								
Notes: All 3 orientations of EUT were investigated											EUT Max Freq: 924MHz				
Worst Case Orientation Z. All readings are noise floor															
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average			
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	
V	6550.0	45.9	45.9	36.5	35.8	8.7	53.9	53.9	83.5	-29.6	Pass	63.5	-9.6	Pass	
H	7280.0	46.4	46.4	37.1	35.9	9.5	54.7	54.7	83.5	-28.8	Pass	63.5	-8.8	Pass	
V	7656.0	45.5	45.5	36.7	36.1	9.5	54.4	54.4	83.5	-29.1	Pass	63.5	-9.1	Pass	
H	8532.0	44.7	44.7	35.8	36.1	9.7	54.7	54.7	83.5	-28.8	Pass	63.5	-8.8	Pass	
V	9292.0	45.1	45.1	36.0	36.9	10.1	56.1	56.1	83.5	-27.4	Pass	63.5	-7.4	Pass	
H	9300.0	45.5	45.5	35.9	36.9	10.1	56.6	56.6	83.5	-26.9	Pass	63.5	-6.9	Pass	
V	9892.0	44.7	44.7	36.1	37.7	10.6	56.9	56.9	83.5	-26.6	Pass	63.5	-6.6	Pass	
H	9928.0	45.4	45.4	36.0	37.8	10.7	57.9	57.9	83.5	-25.6	Pass	63.5	-5.6	Pass	
<b>Table Result:</b> Pass by -5.6 dB															
<b>Worst Freq:</b> 9928.0 MHz															
Test Site: EMI Chamber 2				Cable 1: Asset #2052				Cable 2: Asset #2053				Cable 3: EMIR-HIGH-07			
Analyzer: Rental SA#3				Preamp: Asset #2111				Antenna: Blue Horn				Preselector: ---			
CSsoft Radiated Emissions Calculator v 1.017.180															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															
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Rev. 12/29/2016

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range	Cat	Calibration Due	Calibrated on	
EMI Chamber 2	719150	2762A-7	A-0015	1-18GHz	I	4/29/2017	4/29/2015	
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
A#2111 HF Preamp	0.5-18GHz	PAM-118A	COM-POWER	551063	2111	II	11/5/2017	11/5/2016
2130 BRF	0.009-18000MHz	BRM18770	Micro-Tronics	1	2130	II	1/6/2017	1/6/2016
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Horn	1-18Ghz	3117	ETS	157647	1861	I	2/8/2017	2/8/2015
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	
TH A#2081	HTC-1	HDE		2081	II	4/5/2017	4/5/2016	
Cables	Range	Mfr	Cat	Calibration Due	Calibrated on			
Asset #2052	9kHz - 18GHz	Florida RF	II	3/2/2017	3/2/2016			
Asset #2053	9kHz - 18GHz	Florida RF	II	10/1/3017	10/30/2016			
REMI-High-07	1 - 26.5GHz	TRU-21B0707-120	TRU	8/14/2017	8/14/2016			

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



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## Conducted Spurious Emissions

### LIMITS

*In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power...*  
 [15.247(d)]

### MEASUREMENTS / RESULTS

All emissions were more than 20dB below the fundamental

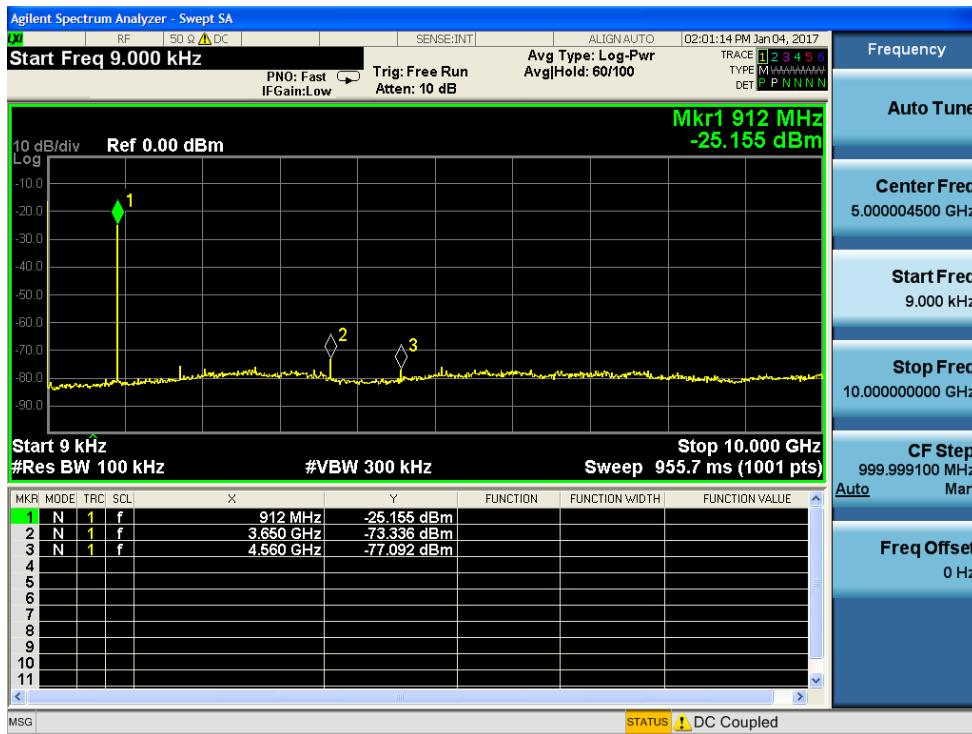
Rev. 1/21/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



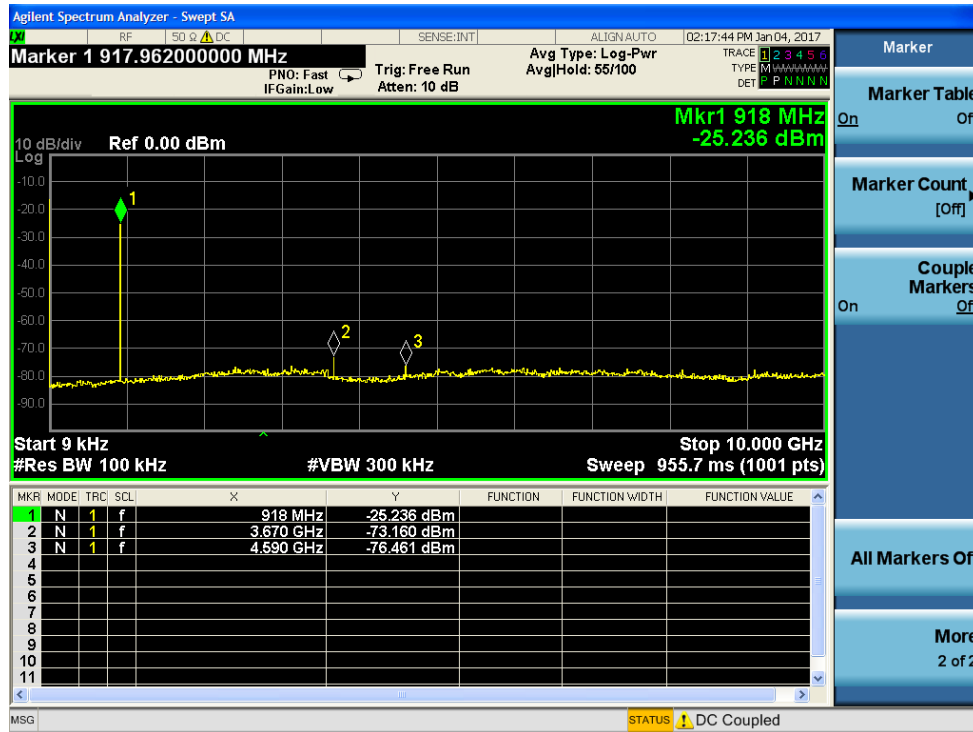
PLOT(S)



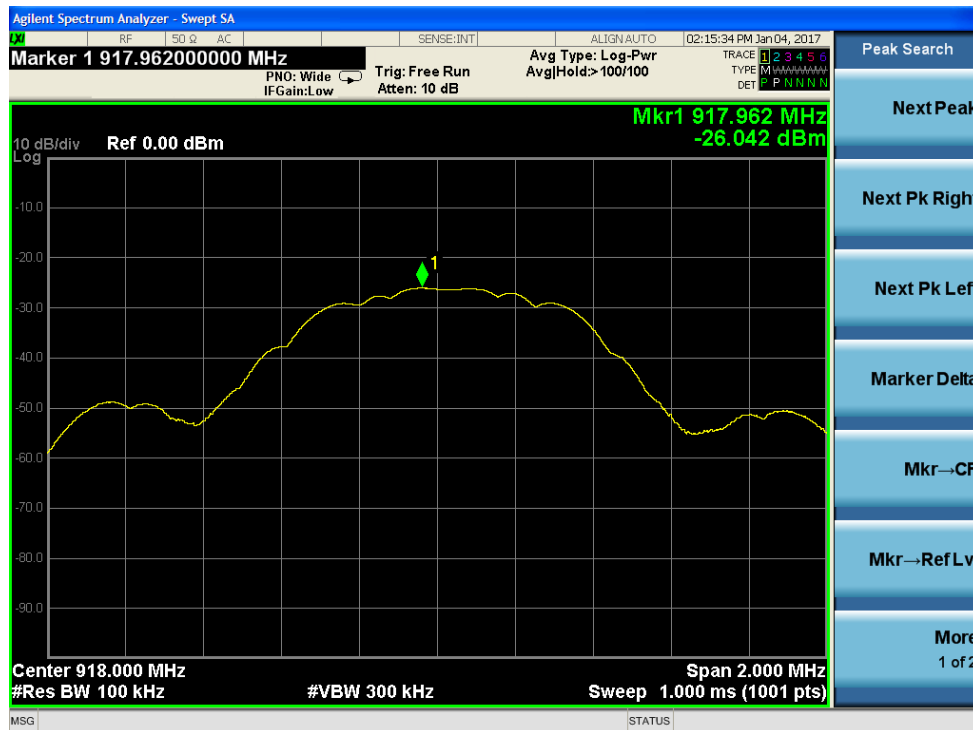
Conducted Spurious 9 KHz - 10GHz with Transmission at 912MHz



Conducted Spurious Reference with Transmission at 912MHz

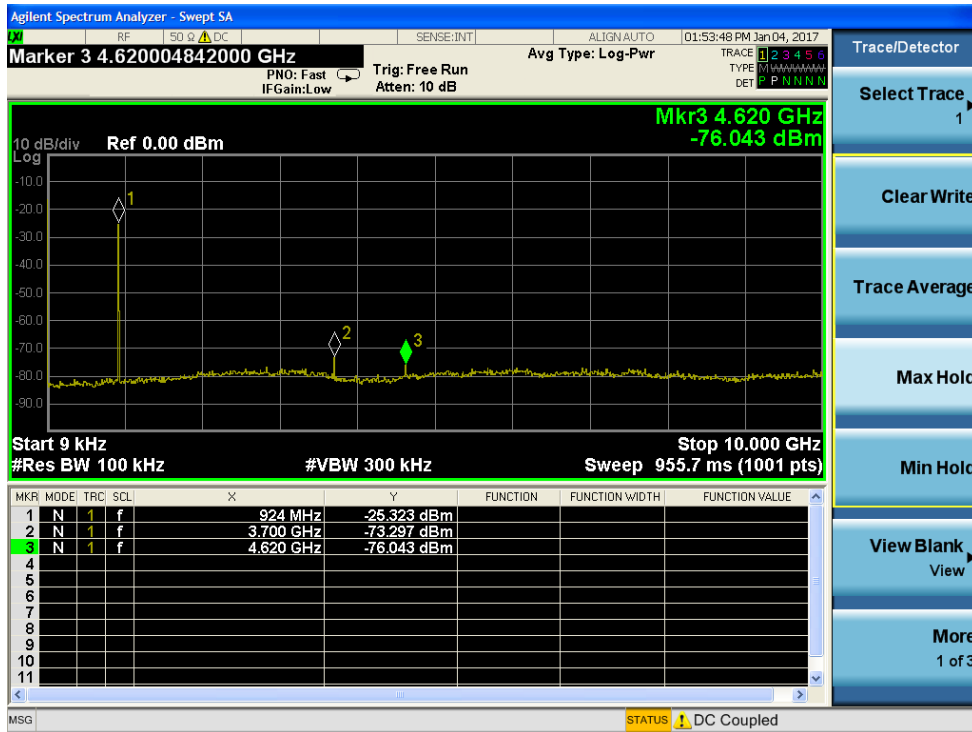


Conducted Spurious 9 KHz - 10GHz with Transmission at 918MHz

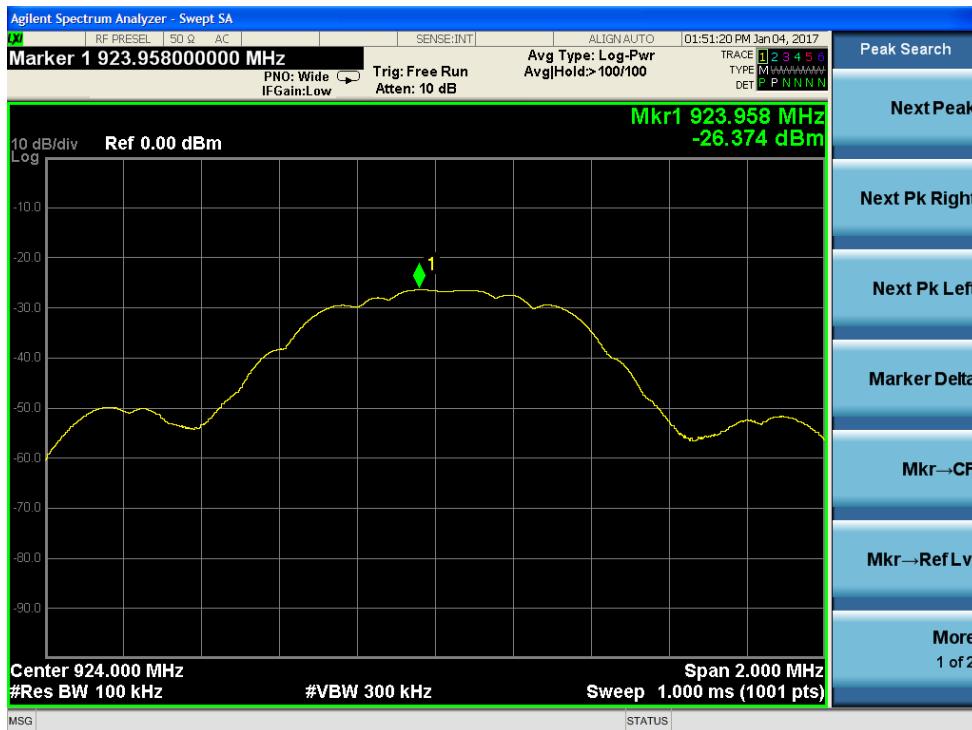


Conducted Spurious Reference with Transmission at 918MHz





Conducted Spurious 9 KHz -10GHz with Transmission at 924MHz



Conducted Spurious Reference with Transmission at 924MHz



## Power Spectral Density

### LIMIT

...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.  
[15.247(e)]

### MEASUREMENTS / RESULTS

Peak Power Spectral Density							
Date: Jan 4 2017		Company: Alarm.com Inc.			Work Order: Q3573		
Engineer: YF / ZJ		EUT: ADC-IS-300-LP		EUT Operating Voltage/Frequency: 3VDC Battery			
Temp: 20.9°C		Humidity: 33%		Pressure: 987mbar			
Frequency Range: 912MHz-924MHz		Measurement Type: Conducted		Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 10.2			
Notes:							
Frequency (MHz)	Peak Reading (dBm)	Cable Loss (dB)	Attenuator Loss (dB)	Peak PSD (dBm)	Limit (dBm)	Margin (dB)	Result
912	-31.99	1.0	29.4	-1.59	8.0	-9.59	Pass
918	-32.15	1.0	29.4	-1.75	8.0	-9.75	Pass
924	-32.47	1.0	29.4	-2.07	8.0	-10.07	Pass
Test Site: EMC-4		Cable: UFL to SMA dongle (client supplied)		Attenuator: A2121			
Analyzer: 1170725		Copyright Curtis-Straus LLC 2000					
PSD(dBm) = Reading (dBm) + Cable Loss (dB) + Attenuator Loss (dBm)							

Rev. 1/21/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



PLOT(S)

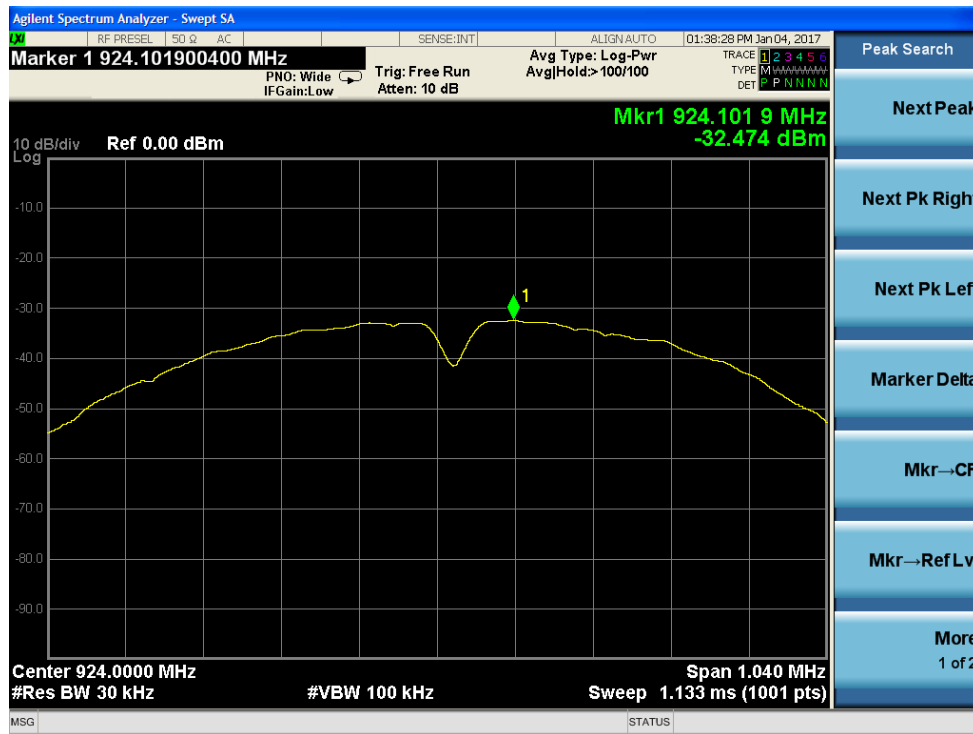


Power Spectral Density with Transmission at 912MHz



Power Spectral Density with Transmission at 918MHz





Power Spectral Density with Transmission at 924MHz



## Occupied Bandwidth

### REQUIREMENT

When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is its 99% emission bandwidth, as calculated or measured.

[RSS-GEN 4.6.1]

### MEASUREMENTS / RESULTS

99% Occupied Bandwidth			
Date: Jan 4 2017	Company: Alarm.com Inc.	Work Order: Q3573	
Engineer: YF / ZJ	EUT: ADC-IS-300-LP	EUT Operating Voltage/Frequency: 3VDC Battery	
Temp: 20.9°C	Humidity: 33%	Pressure: 987mbar	
Frequency Range: 912MHz-924MHz		Measurement Type: Conducted	
Measurement Method: RSS-Gen Issue 4 Section 6.6			
<b>Notes:</b>			
Frequency (MHz)	99% OBW (kHz)		
912	941.33		
918	930.28		
924	906.68		
Test Site: EMC-4		Cable: UFL to SMA dongle (client supplied) Attenuator A2121	
Analyzer: 1170725		Copyright Curtis-Straus LLC 2000	

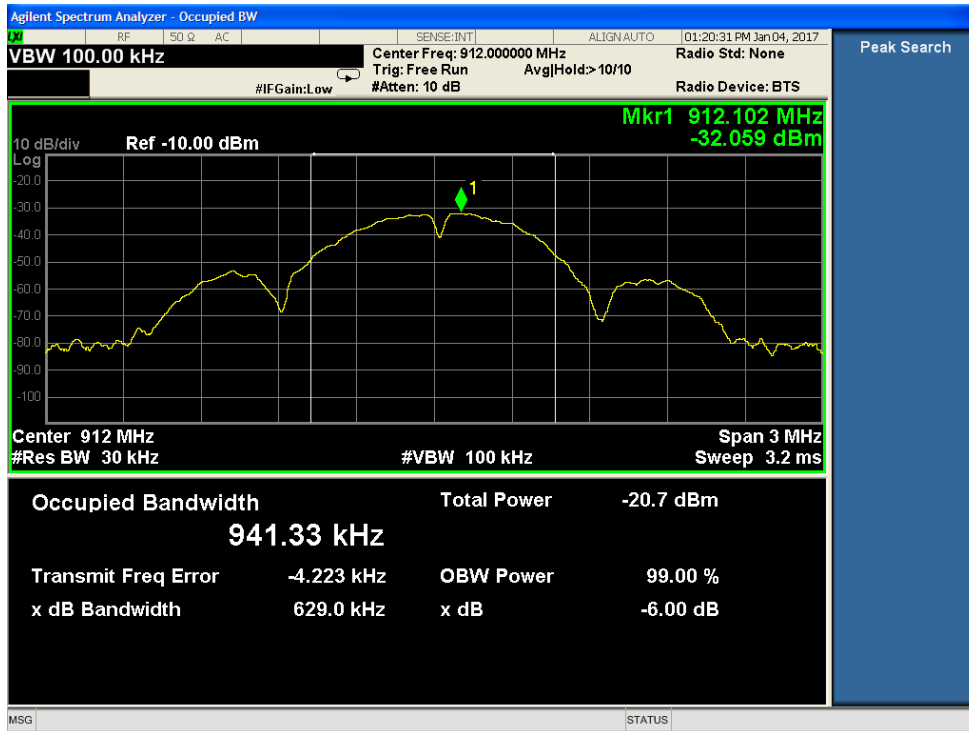
Rev. 1/21/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	12/22/2017	12/22/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	

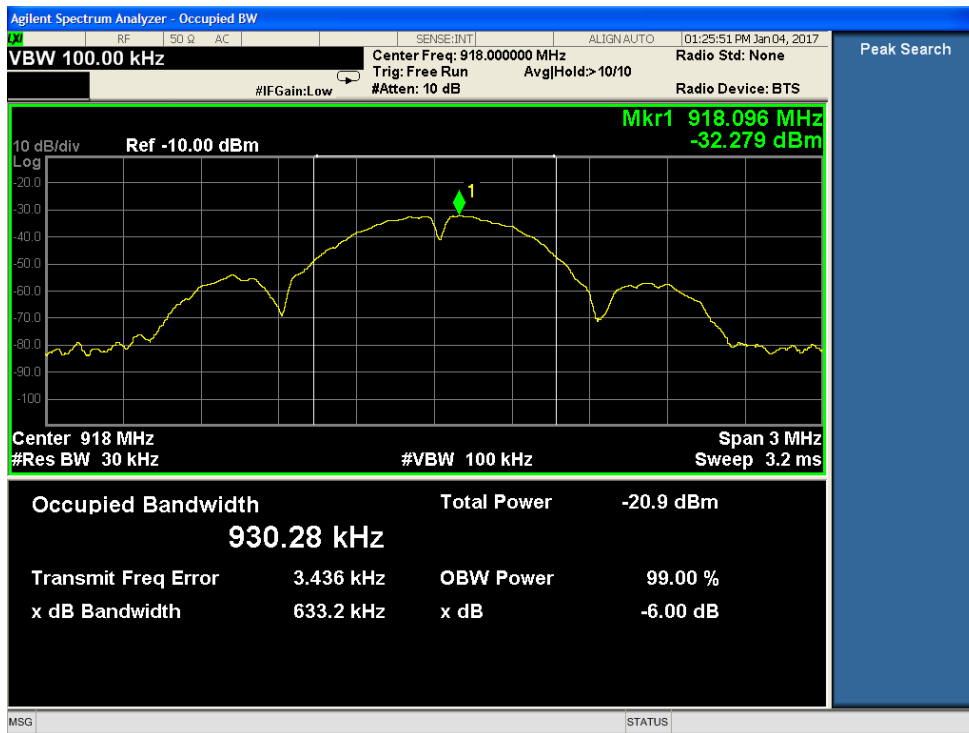
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



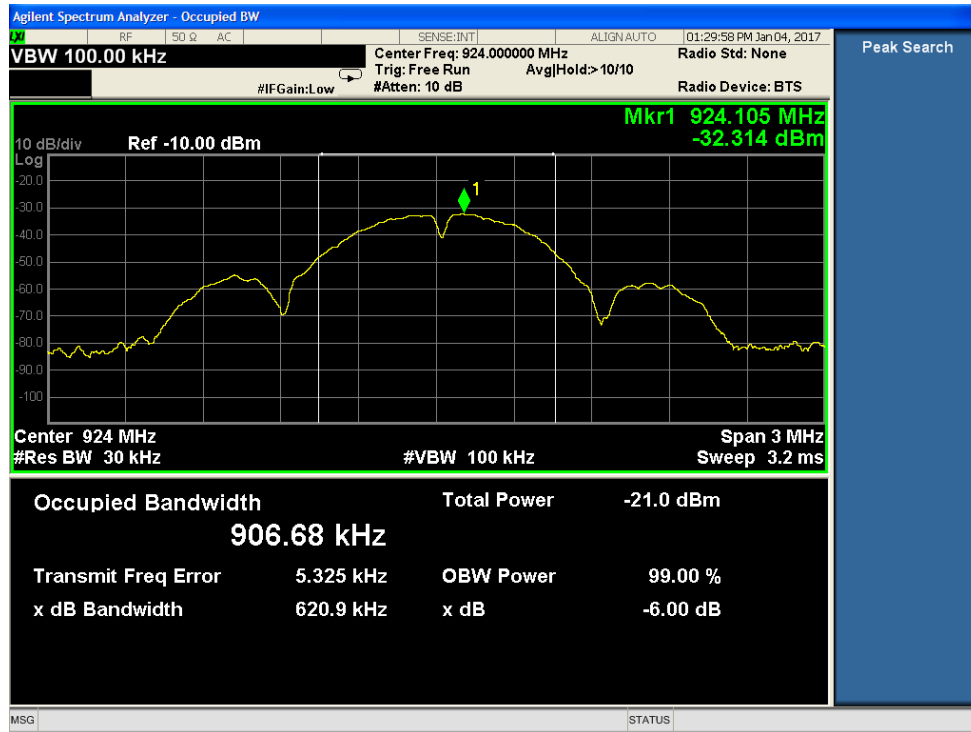
PLOT(S)



99% Occupied Bandwidth with Transmission at 912MHz



99% Occupied Bandwidth with Transmission at 918MHz



99% Occupied Bandwidth with Transmission at 924MHz

### Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radiated Emissions (30-1000MHz)		
NIST	5.6dB	N/A
CISPR	4.6dB	5.2dB (Ucisprr)
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions		
NIST	3.9dB	N/A
CISPR	3.6dB	3.6dB (Ucisprr)
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients		
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency (@ 2.4GHz)	$3.23 \times 10^{-8}$	$1 \times 10^{-7}$
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation:		
• Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency	3.4% 0.3dB	5% 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
Conducted emission of receivers	1.3dB	3dB
Radiated emission of transmitter, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of transmitter, valid up to 80GHz	3.3dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Humidity	2.37%	5%
Temperature	0.7°C	1.0°C
Time	4.1%	10%
RF Power Density, Conducted	0.4dB	3dB
DC and low frequency voltages		
Voltage (AC, <10kHz)	1.3%	2%
Voltage (DC)	0.62%	1%
The above reflects a 95% confidence level		



## Conditions Of Testing

**[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation]**, and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "**BUREAU VERITAS**," "**BUREAU VERITAS CONSUMER PRODUCTS SERVICES**," "**BVCPS**," "**MTL**," "**ACTS**," "**MTL-ACTS**" and "**CURTIS-STRAUS**" (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only where such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.
13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.
14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.



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15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B) NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.

17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

The complete list of the Approved Subcontractors Curtis-Straus may use to delegate the performance of work can be provided upon request.  
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Curtis-Straus LLC, a wholly owned subsidiary of BV CPS

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