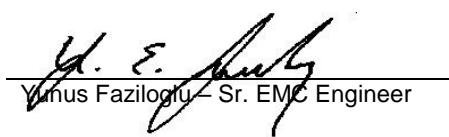




BUREAU
VERITAS

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

Test Report

Report No	EQ2569-1
Client	Ideal Industries, Inc.
Address	Becker Place Sycamore, IL 60178
Phone	(815) 895-1295
Items tested	SCD1000-EM
FCC ID	2AAMXSCD1000EM
IC	11250A-SCD1000EM
FRN	0002862225
Equipment Type	Digital Transmission System
Equipment Code	DTS
Emission Designator	767KG1D
FCC/IC Rule Parts	CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 1
Test Dates	August 25, 29 and September 2, 2016
Results	As detailed within this report
Prepared by	 Tuyen Truong – Test Engineer
Authorized by	 Yunus Faziloglu – Sr. EMC Engineer
Issue Date	1/23/2017
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 31 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 7-20-07 (DW)



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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 SCD1000-EM. It is a digitally modulated transmitter that operates in the 902-928MHz frequency range. The product was tested with a permanently attached wire antenna with 4.55dBi gain.

We found that the product met the above requirements without modification. The test samples were received in good condition.

Model tested: SCD1000-EM

Additional model: SCLED1000EM

Results in this report also represent the additional model above. Per client, circuit and PCB are identical for both models. The only difference is where dim and dim return leads egress from the product housing.



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Test Methodology

All testing was performed according to the following rules/procedures/documents; CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 1, ISED Canada 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 three orthogonal axes as well as varying the test antenna's height and polarity. AC line conducted emissions testing was performed with a 50Ω/50µH LISN. The EUT operating voltage was 120/277VAC at 60Hz.

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

Low channel = 902.7MHz

Mid channel = 915MHz

High channel = 927.3MHz

The following bandwidths were used during radiated spurious and AC line conducted emissions tests:

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-10GHz	1MHz	3MHz



Product Tested - Configuration Documentation

EUT Configuration																	
Work Order:	Q2569																
Company:	Ideal Industries, Inc																
Company Address:	Becker Place Sycamore, IL 60178																
Contact:	Tim Tunnell																
	MN			PN			SN										
EUT:	SCD1000-EM			--			02001D67 (Radiated & Conducted EMI)										
	SCD1000-EM			--			Sample 2 (RF Measurement)										
EUT Description:	Smart Connector																
EUT TX Frequency:	902.7 to 927.3 MHz																
Port Label	Port Type	# ports	# populated	cable type	shielded	ferrites	length (m)	in/out	under test	comment							
AC Mains	Power AC	1	1	Power AC	No	No	1	in	yes								
Antenna	other	1	1	other	No	No	0.05	in	yes								
Load	Power AC	1	1	Power AC	No	No	3	in	yes								
Dimming	Power AC	1	1	other	No	No	3	in	yes								
Software Operating Mode Description:																	
EUT was set to transmit at Low (902.7MHz), Middle (915MHz) and High (927.3MHz) channels.																	



Statement of Conformity

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 antenna for this device is a permanently attached wire antenna with 4.55dBi 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	EUT meets the AC Line conducted emissions requirements of this section.
			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.



Test Results

Bandwidth

LIMIT

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

MEASUREMENTS / RESULTS

6dB BANDWIDTH		
Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569
Engineer: Tuyen Truong	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120Vac/60Hz
Temp: 23.4°C	Humidity: 50%	Pressure: 1010mBar
Frequency Range: 902.7-927.3 MHz		
Notes:		
Frequency (MHz)	Reading (kHz)	6dB BW
		Limit (kHz)
902.7	647.903	≥500
915	647.869	≥500
927.3	648.396	≥500
Test Site: CEMI5	Attenuation: Asset#791	+147.903
Analyzer: SA#1328		+147.869
		+148.396
Copyright Curtis-Straus LLC 2000		

Rev. 8/21/2016

Spectrum Analyzers / Receivers/Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Conducted Test Sites (Mains / Telco) CEMI 5	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2085		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2085	Asset 831 II	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Preamps/Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasternack	SN 1	Asset 791	Cat II	Calibration Due 8/14/2017	Calibrated on 8/14/2016

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



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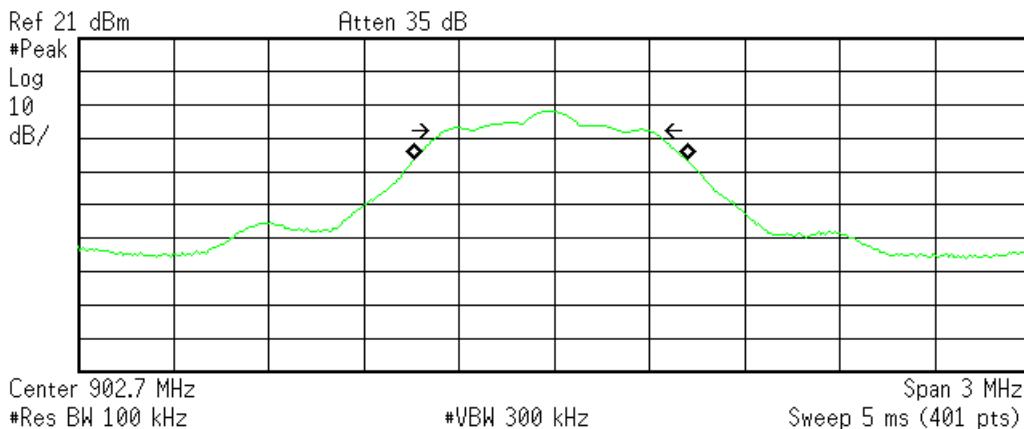
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Testing Cert. No. 1627-01

PLOT(s)

* Agilent 08:03:11 Aug 25, 2016

R T

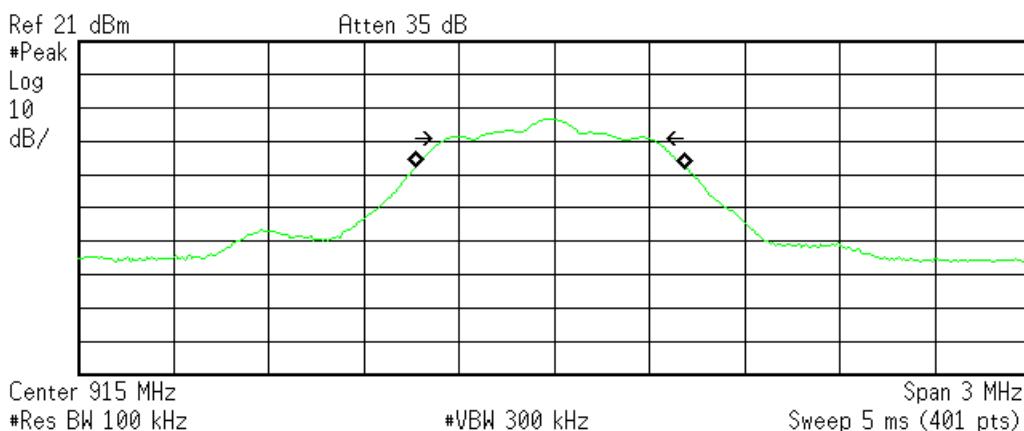


Transmit Freq Error -11.433 kHz
 x dB Bandwidth 647.903 kHz

6dB Bandwidth – Low Channel

* Agilent 08:19:33 Aug 25, 2016

R T



Transmit Freq Error -11.108 kHz
 x dB Bandwidth 647.869 kHz

C:\temp.gif file saved

6dB Bandwidth – Mid Channel

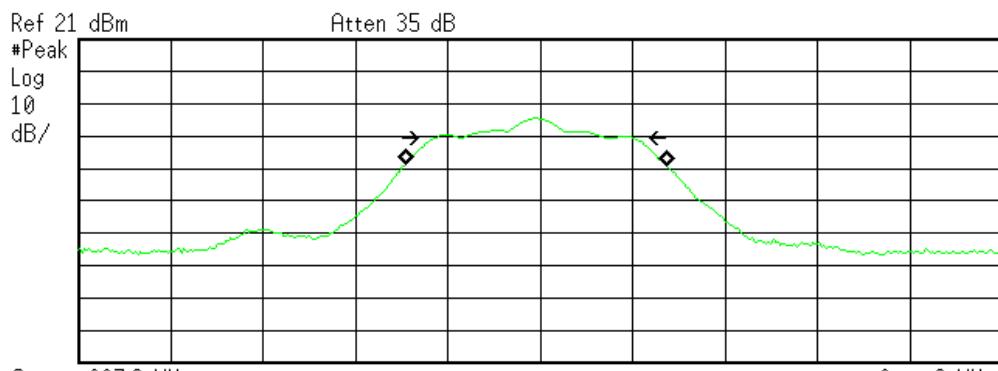


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Agilent 08:23:01 Aug 25, 2016

R T



Occupied Bandwidth
850.5329 kHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

Transmit Freq Error -12.914 kHz
x dB Bandwidth 648.396 kHz

C:\temp.gif file saved

6dB Bandwidth – High Channel



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Testing Cert. No. 1627-01

Fundamental Emission Output Power

LIMIT

Conducted Output Power

1 Watt

[15.247(b) (3)]

Per 558074 D01 DTS Measurement Guidance v03r05 Section 9.2.2.2 (AVGSA-1 Average Conducted Output Power)

MEASUREMENTS / RESULTS

Fundamental Emission Output Power														
Date: 25-Aug-16	Company: Ideal Industries, Inc.				Work Order: Q2569									
Engineer: Tuyen Truong	EUT Desc: SCD1000				EUT Operating Voltage/Frequency: 120Vac/60Hz									
Temp: 23.4°C	Humidity: 50%				Pressure: 1010mBar									
Frequency Range: 902.7-927.3 MHz														
Notes:														
Frequency (MHz)	Reading (dBm)	Attenuation (dB)		Final Conducted Reading (dBm)		FCC 15.247								
902.7	-1.96	19.42		17.46	30.0	-12.54	Pass							
915	-3.46	19.42		15.96	30.0	-14.04	Pass							
927.3	-4.61	19.42		14.81	30.0	-15.19	Pass							
Table Result: Pass by -12.54 dB				Worst Freq: 902.7 MHz										
Test Site: CEM15				Attenuation: Asset#791										
Analyzer: SA#1328														
Copyright Curtis-Straus LLC 2000														

Rev. 8/21/2016

Spectrum Analyzers / Receivers/Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Conducted Test Sites (Mains / Telco) CEMI 5	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2085		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2085	Asset 1	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Preamps/Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasternack	SN 1	Asset 791	Cat II	Calibration Due 8/14/2017	Calibrated on 8/14/2016

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

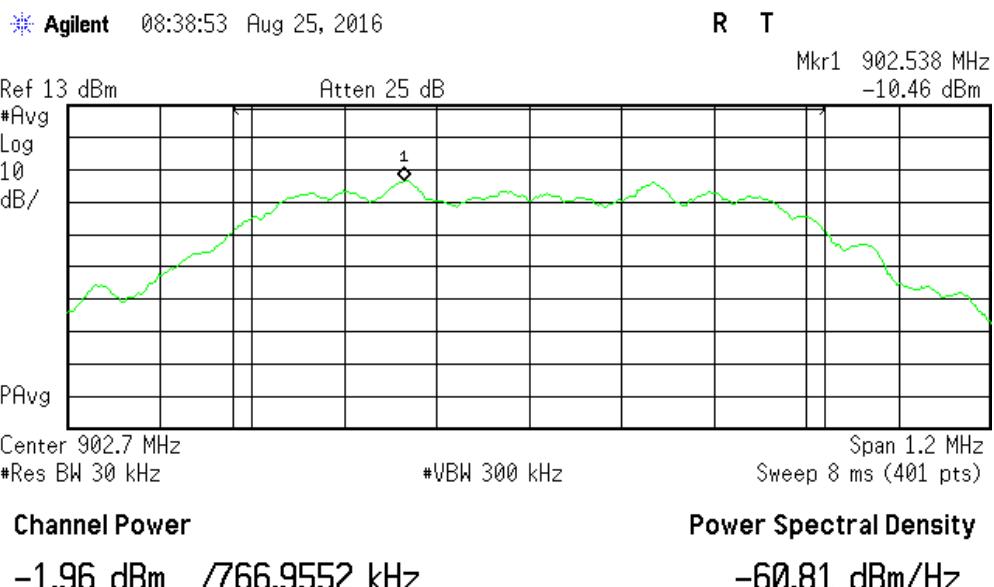


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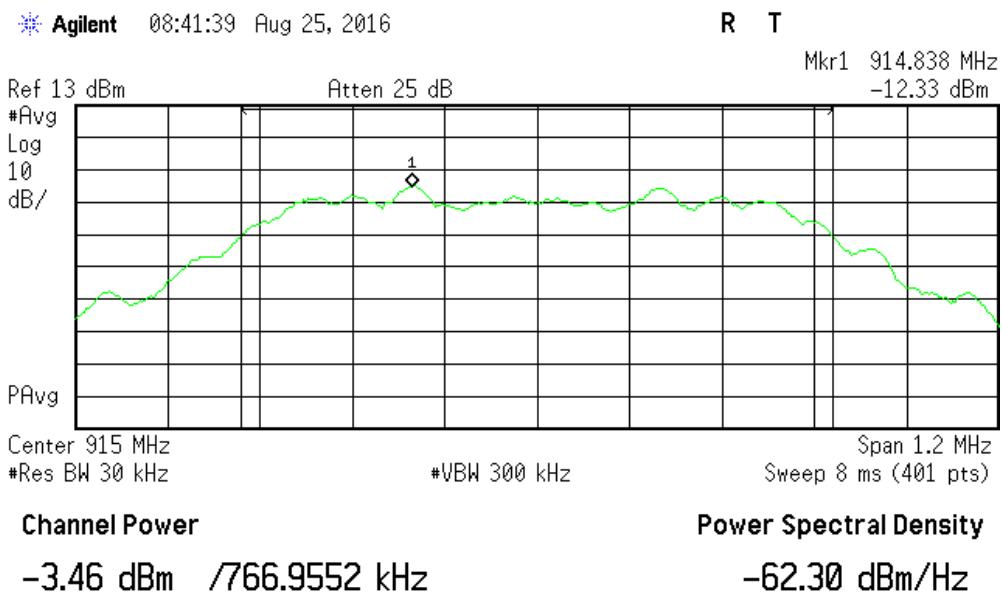


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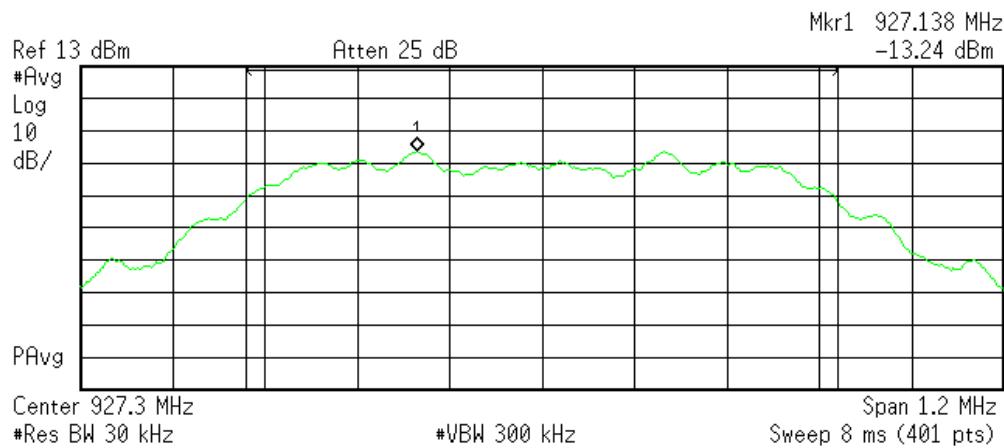
Testing Cert. No. 1627-01

PLOTS**C:\temp.gif file saved**

Channel Power – Low Channel

**C:\temp.gif file saved**

Channel Power – Mid Channel

Agilent 08:35:56 Aug 25, 2016**R T****Channel Power**

-4.61 dBm / 766.9552 kHz

Power Spectral Density

-63.46 dBm/Hz

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Channel Power – High Channel



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Radiated 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

[15.247(d)]

MEASUREMENTS / RESULTS

Spurious Conducted Emissions - Maximum In Band Peak PSD in 100 KHz RBW														
Date: 25-Aug-16	Company: Ideal Industries, Inc.					Work Order: Q2569								
Engineer: Tuyen Truong	EUT Desc: SCD1000					EUT Operating Voltage/Frequency: 120Vac/60Hz								
Temp: 23.4°C	Humidity: 50%					Pressure: 1010mBar								
Frequency Range: 902.7-927.3 MHz														
Notes: Maximum In Band Peak PSD in 100 KHz RBW														
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Adjusted Reading (dBm)											
902.7	-1.043	19.42	18.4											
Test Site: CEMI5 Attenuation: Asset#/791														
Analyzer: SA#1328														
Copyright Curtis-Straus LLC 2000														

Rev. 8/21/2016

Spectrum Analyzers / Receivers/Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4406B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Conducted Test Sites (Mains / Telco) CEMI 5	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2085		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2085	Asset 831 II	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Preamps /Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasternack	SN 1	Asset 791	Cat II	Calibration Due 8/14/2017	Calibrated on 8/14/2016

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



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Testing Cert. No. 1627-01

Radiated Emissions Table - FCC 15.247(d) - non restricted band

Date: 08-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569										
Engineer: Zachary Johnson	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120V/60Hz										
Temp: 22.6°C	Humidity: 50%	Pressure: 1010mBar										
Frequency Range: 30-1000MHz		Measurement Distance: 3 m										
Notes: All 3 channels (Low, Mid and High) were investigated and only the worst case recorded.		EUT TX Freq: 902.7 to 927.3 MHz										
Adjusted FS readings compared to Peak Power Spectral Density (worst case) including the 4.55dBi Antenna gain with the limit being 30dB below which corresponds to 88.2dB μ V/m												
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB μ V/m)	--			FCC 15.247 (d)		
							Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)
V	41.2	50.4	22.4	13.2	0.4	41.6	---	---	---	88.2	-46.6	Pass
V	54.2	47.7	22.5	7.5	0.5	33.2	---	---	---	88.2	-55.0	Pass
H	76.4	32.3	22.4	8.8	0.6	19.3	---	---	---	88.2	-68.9	Pass
V	80.7	43.3	22.5	8.0	0.6	29.4	---	---	---	88.2	-58.8	Pass
V	207.5	43.4	22.5	11.0	0.9	32.8	---	---	---	88.2	-55.4	Pass
H	800.3	34.5	22.4	21.3	2.2	35.6	---	---	---	88.2	-52.6	Pass
H	75.59	42.4	22.4	9.0	0.6	29.6	---	---	---	88.2	-58.6	Pass
H	821.52	36.5	22.3	21.7	2.2	38.1	---	---	---	88.2	-50.1	Pass
H	80.44	41.4	22.5	8.1	0.6	27.6	---	---	---	88.2	-60.6	Pass
H	799.21	37.6	22.4	21.3	2.1	38.6	---	---	---	88.2	-49.6	Pass
H	77.53	42.6	22.4	8.6	0.6	29.4	---	---	---	88.2	-58.8	Pass
H	799.21	40.1	22.4	21.3	2.1	41.1	---	---	---	88.2	-47.1	Pass
Table Result: Pass by -46.6 dB			Worst Freq: 41.2 MHz									
Test Site: EMI Chamber 2	Cable 1: Asset #2052			Cable 2: Asset #1507			Cable 3: ---					
Analyzer: Rental SA#1	Preamp: Blue			Antenna: Red-Black			Preselector: ---					
CSsoft Radiated Emissions Calculator	v 1.017.169						Copyright Curtis-Straus LLC 2000					
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												

Note: No emissions found within 10dB of the limit, which was set -30dB down from the peak of Power Spectral Density of the Fundamental frequency (worst case). (See section 15.247(e) – Power Spectral Density) (i.e. Worst Case Conducted Power Spectral Density Reading + Antenna Gain = EIRP then calculated field strength based off of $P = (Ed)^2/(30G)$. Field Strength – 30dB = Adjusted Limit dB μ V/m

Rev. 9/1/2016

Spectrum Analyzers / Receivers /Preselectors SA #2 (1860)	Range 9kHz-26.5 GHz	MN E7405A	Mfr Agilent	SN MY45104916	Asset 1860	Cat I	Calibration Due 12/23/2016	Calibrated on 12/23/2015
Radiated Emissions Sites EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps /Couplers Attenuators / Filters Blue	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 759	Cat II	Calibration Due 5/13/2017	Calibrated on 5/13/2016
Antennas Red-Black Biog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-2	Asset 1106	Cat I	Calibration Due 2/9/2017	Calibrated on 2/9/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2081		MN BA928	Mfr Oregon Scientific	SN C3166-1	Asset 831	Cat I	Calibration Due 4/28/2018	Calibrated on 4/28/2016
		MN HTC-1	Mfr HDE	SN 2081	Asset II	Cat II	Calibration Due 4/5/2017	Calibrated on 4/5/2016
Cables Asset #1507 Asset #2052	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II	Calibration Due 2/14/2017 3/2/2017	Calibrated on 2/14/2016 3/2/2016

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



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Testing Cert. No. 1627-01

Radiated Emissions Table - FCC 15.247(d) - restricted band

Date: 08-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569										
Engineer: Zachary Johnson	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120V/60Hz										
Temp: 22.6°C	Humidity: 50%	Pressure: 1010mBar										
Frequency Range: 30-1000MHz		Measurement Distance: 3 m										
Notes: All 3 channels (Low, Mid and High) were investigated and only the worst case recorded.		EUT TX Freq: 902.7 to 927.3 MHz										
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dB _µ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB _µ V/m)	--			FCC 15.209		
							Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)

Table Result: Pass by -6.9 dB**Worst Freq:** 330.7 MHz

Test Site: EMI Chamber 2	Cable 1: Asset #2052	Cable 2: Asset #1507	Cable 3: ---
Analyzer: Rental SA#1	Preamp: Blue	Antenna: Red-Black	Preselector: ---
CSsoft Radiated Emissions Calculator	v 1.017.169		Copyright Curtis-Straus LLC 2000
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor			

Rev. 9/1/2016

Spectrum Analyzers / Receivers /Preselectors SA #2 (1860)	Range 9kHz-26.5 GHz	MN E7405A	Mfr Agilent	SN MY45104916	Asset 1860	Cat I	Calibration Due 12/23/2016	Calibrated on 12/23/2015
Radiated Emissions Sites EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps /Couplers Attenuators / Filters Blue	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 759	Cat II	Calibration Due 5/13/2017	Calibrated on 5/13/2016
Antennas Red-Black BiLog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-2	Asset 1106	Cat I	Calibration Due 2/9/2017	Calibrated on 2/9/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2081		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2081	Asset I II	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Cables Asset #1507 Asset #2052	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II II	Calibration Due 2/14/2017 3/2/2017	Calibrated on 2/14/2016 3/2/2016

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

Radiated Emissions Table

Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569							
Engineer: Zachary Johnson	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120V/60Hz							
Temp: 22.6°C	Humidity: 50%	Pressure: 1010mBar							
Frequency Range: 1-6GHz		Measurement Distance: 3 m							
Notes: TX on Low channel Limit is set at 30dB below the fundamental		EUT TX Freq: 902.7 to 927.3 MHz							
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _µ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _µ V/m)	FCC 15.247(d)		
							Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)

Table Result: Pass by -31.4 dB**Worst Freq:** 5656.0 MHz

Test Site: EMI Chamber 2	Cable 1: Asset #2052	Cable 2: Asset #1507	Cable 3: ---
Analyzer: Rental SA#1	Preamp: Asset #1517	Antenna: Blue Horn	Preselector: ---
CSsoft Radiated Emissions Calculator	v 1.017.169		Copyright Curtis-Straus LLC 2000
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor			

Radiated Emissions Table

Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569							
Engineer: Zachary Johnson	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120V/60Hz							
Temp: 22.6°C	Humidity: 50%	Pressure: 1010mBar							
Frequency Range: 1-6GHz		Measurement Distance: 3 m							
Notes: TX on Mid channel Limit is set at 30dB below the fundamental		EUT TX Freq: 902.7 to 927.3 MHz							
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _µ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _µ V/m)	FCC 15.247(d)		
							Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)

Table Result: Pass by -31.3 dB**Worst Freq:** 5714.0 MHz

Test Site: EMI Chamber 2	Cable 1: Asset #2052	Cable 2: Asset #1507	Cable 3: ---
Analyzer: Rental SA#1	Preamp: Asset #1517	Antenna: Blue Horn	Preselector: ---
CSsoft Radiated Emissions Calculator	v 1.017.169		Copyright Curtis-Straus LLC 2000
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor			



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Radiated Emissions Table

Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569										
Engineer: Zachary Johnson	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120V/60Hz										
Temp: 22.6°C	Humidity: 50%	Pressure: 1010mBar										
Frequency Range: 1-6GHz		Measurement Distance: 3 m										
Notes: TX on High channel Limit is set at 30dB below the fundamental		EUT TX Freq: 902.7 to 927.3 MHz										
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _u V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _u V/m)				FCC 15.247(d)		
H	1082.0	34.9	21.2	28.5	2.5	44.7				Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)
V	2411.0	40.4	20.9	32.3	3.6	55.4				88.2	-43.5	Pass
										88.2	-32.8	Pass
Table Result: Pass		by -32.8 dB			Worst Freq: 2411.0 MHz							
Test Site: EMI Chamber 2		Cable 1: Asset #2052	Cable 2: Asset #1507		Cable 3: ---		Antenna: Blue Horn		Preselector: ---			
Analyzer: Rental SA#1		Preamp: Asset #1517							Copyright Curtis-Straus LLC 2000			
CSsoft Radiated Emissions Calculator v 1.017.169												
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												

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Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Brown		9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	1/21/2017	1/21/2016
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
1517 HF Preamp		1-20GHz	CS	CS	N/A	1517	II	8/14/2017	8/14/2016
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	II	4/5/2017	4/5/2016	
Cables		Range	Mfr		Cat	Calibration Due	Calibrated on		
Asset #1507		9kHz - 18GHz	Florida RF		II	2/14/2017	2/14/2016		
Asset #2052		9kHz - 18GHz	Florida RF		II	3/2/2017	3/2/2016		

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

Radiated Emissions Table

Date: 29-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569									
Engineer: Chris Bramley	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120V/60Hz									
Temp: 24.5°C	Humidity: 40%	Pressure: 1010mBar									
Frequency Range: 6-10GHz		Measurement Distance: 1 m									
Notes: EUT Tx at 902.7MHz.		EUT Max Freq: 927.3MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _u V)	Average Reading (dB _u V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _u V/m)	Adjusted Avg Reading (dB _u V/m)	FCC 15.209 High Frequency - Peak	FCC 15.209 High Frequency - Average	
									Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)
h	6318.9	34.09	24.3	16.2	35.8	8.0	61.7	51.9	83.5	-21.8	Pass
v	7221.6	41.47	34.2	15.9	35.9	8.0	69.5	62.2	83.5	-14.0	Pass
v	8124.3	34.48	22.5	15.9	36.1	8.1	62.8	50.8	83.5	-20.7	Pass
h	9027.0	33.56	20.5	15.8	36.6	8.0	62.4	49.3	83.5	-21.1	Pass
									63.5	-11.6	Pass
									63.5	-1.3	Pass
									63.5	-12.7	Pass
									63.5	-14.2	Pass
Table Result: Pass		by -1.3 dB			Worst Freq: 7221.6 MHz						
Test Site: EMI Chamber 1		Cable 1: Asset #2051	Cable 2: Asset #1784		Antenna: Blue Horn				Copyright Curtis-Straus LLC 2000		
Analyzer: Rental SA#1		Preamp: Brown									
CSsoft Radiated Emissions Calculator v 1.017.170											
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor											



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Radiated Emissions Table

Date: 29-Aug-16		Company: Ideal Industries, Inc.								Work Order: Q2569											
Engineer: Chris Bramley		EUT Desc: SCD1000								EUT Operating Voltage/Frequency: 120V/60Hz											
Temp: 24.5°C		Humidity: 40%								Pressure: 1010mBar											
Frequency Range: 6-10GHz												Measurement Distance: 1 m									
Notes: EUT Tx at 915MHz.												EUT Max Freq: 927.3MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average									
h	6405.0	34.43	23.0	16.0	35.8	8.2	62.4	51.0	83.5	-21.1	Pass	63.5	-12.5	Pass							
v	7320.0	37.47	28.3	15.9	35.9	7.7	65.2	56.0	83.5	-18.3	Pass	63.5	-7.5	Pass							
v	8235.0	33.88	21.5	16.0	36.1	8.1	62.1	49.7	83.5	-21.4	Pass	63.5	-13.8	Pass							
h	9150.0	31.95	19.2	15.7	36.7	8.0	61.0	48.2	83.5	-22.5	Pass	63.5	-15.3	Pass							

Table Result: Pass by -7.5 dB**Worst Freq:** 7320.0 MHz

Test Site: EMI Chamber 1

Cable 1: Asset #2051

Analyzer: Rental SA#1

Preamp: Brown

CSsoft Radiated Emissions Calculator v 1.017.170

Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Cable 2: Asset #1784

Antenna: Blue Horn

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Radiated Emissions Table

Date: 29-Aug-16		Company: Ideal Industries, Inc.								Work Order: Q2569											
Engineer: Chris Bramley		EUT Desc: SCD1000								EUT Operating Voltage/Frequency: 120V/60Hz											
Temp: 24.5°C		Humidity: 40%								Pressure: 1010mBar											
Frequency Range: 6-10GHz												Measurement Distance: 1 m									
Notes: EUT Tx at 927.3MHz.												EUT Max Freq: 927.3MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC 15.209 High Frequency - Peak			FCC 15.209 High Frequency - Average									
h	6491.1	33.78	22.5	16.1	35.8	7.2	60.7	49.4	83.5	-22.8	Pass	63.5	-14.1	Pass							
v	7418.4	35.96	25.5	15.9	36.0	7.9	64.0	53.5	83.5	-19.5	Pass	63.5	-10.0	Pass							
v	8345.7	33.12	19.5	16.0	36.1	8.2	61.4	47.8	83.5	-22.1	Pass	63.5	-15.7	Pass							
h	9273.0	32.28	18.9	15.6	36.8	8.6	62.1	48.7	83.5	-21.4	Pass	63.5	-14.8	Pass							

Table Result: Pass by -10.0 dB**Worst Freq:** 7418.4 MHz

Test Site: EMI Chamber 1

Cable 1: Asset #2051

Analyzer: Rental SA#1

Preamp: Brown

CSsoft Radiated Emissions Calculator v 1.017.170

Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Cable 2: Asset #1784

Antenna: Blue Horn

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Spectrum Analyzers / Receivers / Preselectors

Brown	Range 9kHz-26.5GHz	MN E4407B	Mfr Agilent	SN SG44210511	Asset 1510	Cat I	Calibration Due 1/21/2017	Calibrated on 1/21/2016
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz	Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015	
Preamps / Couplers Attenuators / Filters Brown	Range 1-10GHz	MN CS	Mfr CS	SN N/A	Asset 1523	Cat II	Calibration Due 10/8/2016	Calibrated on 10/8/2015
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2080	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2080	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016	
Cables Asset #1784 Asset #2051	Range 9kHz - 18GHz 9kHz - 18GHz	Mfr Florida RF Florida RF	Cat II II	Calibration Due 3/7/2017 3/2/2017	Calibrated on 3/7/2016 3/2/2016			

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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 based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB ...

[15.247(d)]

MEASUREMENTS / RESULTS

Spurious Conducted Emissions - Maximum In Band Peak PSD in 100 KHz RBW			
Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569	
Engineer: Tuyen Truong	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120Vac/60Hz	
Temp: 23.4°C	Humidity: 50%	Pressure: 1010mBar	
Frequency Range: 902.7-927.3 MHz			
Notes: Maximum In Band Peak PSD in 100 KHz RBW			
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Adjusted Reading (dBm)
902.7	-1.043	19.42	18.4
Test Site: CEMI5	Attenuation: Asset#791		
Analyzer: SA#1328			
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Band Edge									
Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569							
Engineer: Tuyen Truong	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120Vac/60Hz							
Temp: 23.4°C	Humidity: 50%	Pressure: 1010mBar							
Frequency Range: 902.7-927.3 MHz									
Notes: The Limit here is set to -30dB from the max in-band peak PSD level in 100kHz RBW (Attenuation factor included or 19.42dBm)									
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Final Conducted Reading (dBm)	FCC 15.247					
902.0	-37.58	19.42	-18.16	Limit (dBm)	Margin (dB)	Result (Pass/Fail)			
928.0	-43.22	19.42	-23.80	-11.60	-6.56	Pass			
-11.60	-12.20	Pass							
Table Result: Pass	by	-6.56 dB		Worst Freq:	902.0 MHz				
Test Site: CEMI5	Attenuation: Asset#791								
Analyzer: SA#1328									
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Rev. 8/21/2016	Spectrum Analyzers / Receivers/Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Conducted Test Sites (Mains / Telco) CEMI 5	FCC Code 719150	VCCI Code A-0015				Cat III	Calibration Due NA	Calibrated on N/A	
Meteorological Meters Weather Clock (Pressure Only) TH A#2085	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2085	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016		
Preamps/Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasternack	SN 1	Asset 791	Cat II	Calibration Due 8/14/2017	Calibrated on 8/14/2016	

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

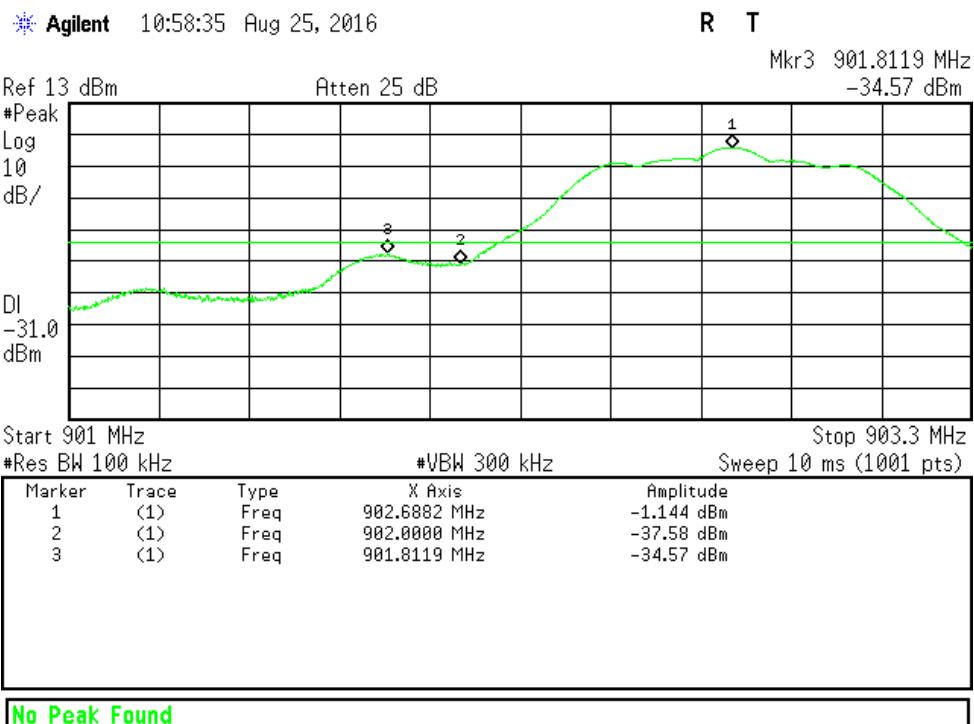


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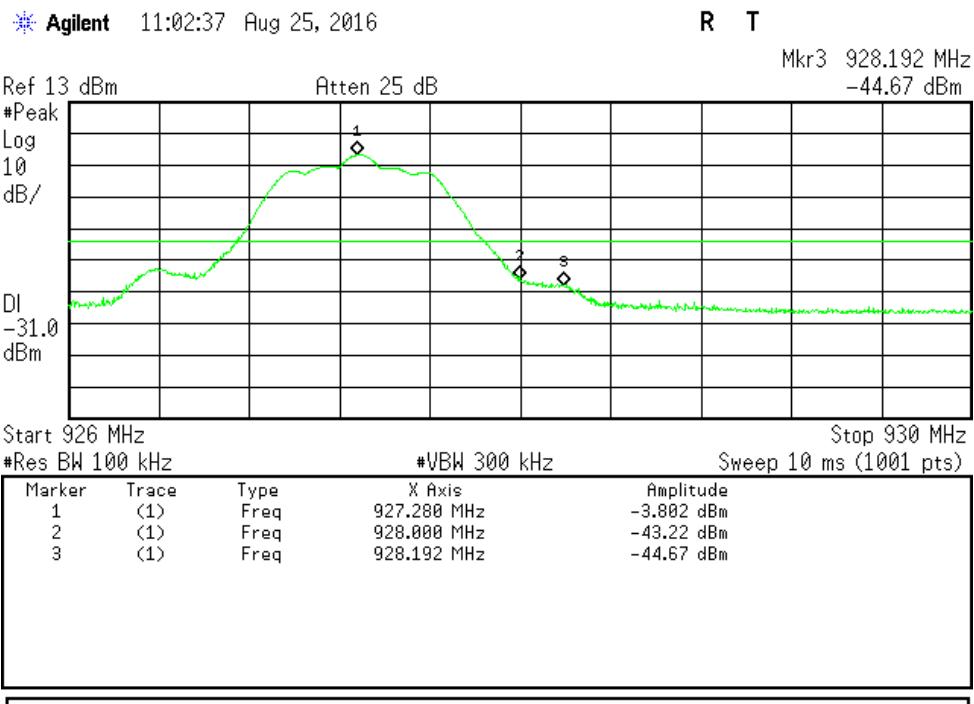


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Testing Cert. No. 1627-01

Plots**Conducted Band Edge**

Lower Channel – Band-edge (<-30dBm)



Upper Channel – Band-edge (<-30dBm)



Conducted Spurious Emission

Conducted spurious emissions at the antenna port were measured in accordance with FCC KDB 558074 D01 DTS Measurement Guidance v03r05 Section 11.0.

Frequency range up to 10GHz was investigated for all 3 channels (low, middle and high) at the EUT antenna port.

Spurious Conducted Emissions - Maximum In Band Peak PSD in 100 KHz RBW			
Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569	
Engineer: Tuyen Truong	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120Vac/60Hz	
Temp: 23.4°C	Humidity: 50%	Pressure: 1010mBar	
Frequency Range: 902.7-927.3 MHz			
Notes: Maximum In Band Peak PSD in 100 KHz RBW			
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Adjusted Reading (dBm)
902.7	-1.043	19.42	18.4
Test Site: CEMI5	Attenuation: Asset#791		
Analyzer: SA#1328			
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Conducted Spurious Emission			
Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569	
Engineer: Tuyen Truong	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120Vac/60Hz	
Temp: 23.4°C	Humidity: 50%	Pressure: 1010mBar	
Frequency Range: 902.7-927.3 MHz			
Notes: TX on low channel The Limit here is set to -30dB from the max in-band peak PSD level in 100kHz RBW (Attenuation factor included or 19.42dBm)			
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Final Conducted Reading (dBm)
30.0	-53.74	19.42	-34.32
1805.4	-53.18	19.42	-33.76
Table Result:	Pass	by -22.16 dB	Worst Freq: 1805.4 MHz
Test Site: CEMI5	Attenuation: Asset#791		
Analyzer: SA#1328			
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Conducted Spurious Emission			
Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569	
Engineer: Tuyen Truong	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120Vac/60Hz	
Temp: 23.4°C	Humidity: 50%	Pressure: 1010mBar	
Frequency Range: 902.7-927.3 MHz			
Notes: TX on mid channel The Limit here is set to -30dB from the max in-band peak PSD level in 100kHz RBW (Attenuation factor included or 19.42dBm)			
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Final Conducted Reading (dBm)
30.0	-53.93	19.42	-34.51
1830.0	-53.48	19.42	-34.06
Table Result:	Pass	by -22.46 dB	Worst Freq: 1830.0 MHz
Test Site: CEMI5	Attenuation: Asset#791		
Analyzer: SA#1328			
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Conducted Spurious Emission

Date: 25-Aug-16	Company: Ideal Industries, Inc.	Work Order: Q2569				
Engineer: Tuyen Truong	EUT Desc: SCD1000	EUT Operating Voltage/Frequency: 120Vac/60Hz				
Temp: 23.4°C	Humidity: 50%	Pressure: 1010mBar				
Frequency Range: 902.7-927.3 MHz						
Notes: TX on high channel The Limit here is set to -30dB from the max in-band peak PSD level in 100kHz RBW (Attenuation factor included or 19.42dBm)						
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Final Conducted Reading (dBm)	FCC 15.247		
				Limit (dBm)	Margin (dB)	Result (Pass/Fail)
30.0	-53.30	19.42	-33.88	-11.60	-22.28	Pass
1854.6	-53.19	19.42	-33.77	-11.60	-22.17	Pass
Table Result: Pass by -22.17 dB				Worst Freq: 1854.6 MHz		
Test Site: CEMI5		Attenuation: Asset#791				
Analyzer: SA#1328			Copyright Curtis-Straus LLC 2000			

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Spectrum Analyzers / Receivers /Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Conducted Test Sites (Mains / Telco) CEMI 5	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2085		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 2085	Asset 831 2085	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Preamps/Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasterнак	SN 1	Asset 791	Cat II	Calibration Due 8/14/2017	Calibrated on 8/14/2016

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BUREAU
VERITAS



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Testing Cert. No. 1627-01

Power Spectral Density

LIMIT

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

Per 558074 D01 DTS Measurement Guidance v03r05 DTS Method 10.3 AVGPSD-1 (trace averaging with EUT transmitting at full power throughout each sweep)

MEASUREMENTS / RESULTS

Power Spectral Density													
Date: 25-Aug-16		Company: Ideal Industries, Inc.		Work Order: Q2569									
Engineer: Tuyen Truong		EUT Desc: SCD1000		EUT Operating Voltage/Frequency: 120Vac/60Hz									
Temp: 23.4°C		Humidity: 50%		Pressure: 1010mBar									
Frequency Range: 902.7-927.3 MHz													
Notes:													
Frequency (MHz)	Reading (dBm)	Attenuation (dB)	Final Conducted Reading (dBm)	FCC 15.247									
				Limit (dBm)	Margin (dB)	Result (Pass/Fail)							
902.7	-13.49	19.42	5.93	8.0	-2.07	Pass							
915	-15.64	19.42	3.78	8.0	-4.22	Pass							
927.3	-17.91	19.42	1.51	8.0	-6.49	Pass							
Table Result: Pass		by -2.07 dB	Worst Freq: 902.7 MHz										
Test Site: CEMI5		Attenuation: Asset#791											
Analyzer: SA#1328													
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Rev. 8/21/2016

Spectrum Analyzers / Receivers/Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SA EMI Chamber (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	I	2/26/2017	2/26/2016
Conducted Test Sites (Mains / Telco)	FCC Code		VCCI Code		Cat	Calibration Due	Calibrated on	
CEMI 5	719150		A-0015		III	NA		N/A
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#2085	HTC-1	HDE	2085	II		4/5/2017	4/5/2016	
Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
HF 20dB 50W Attenuator	0.009-18 GHz	PE 7019-20	Pasternack	1	791	II	8/14/2017	8/14/2016

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



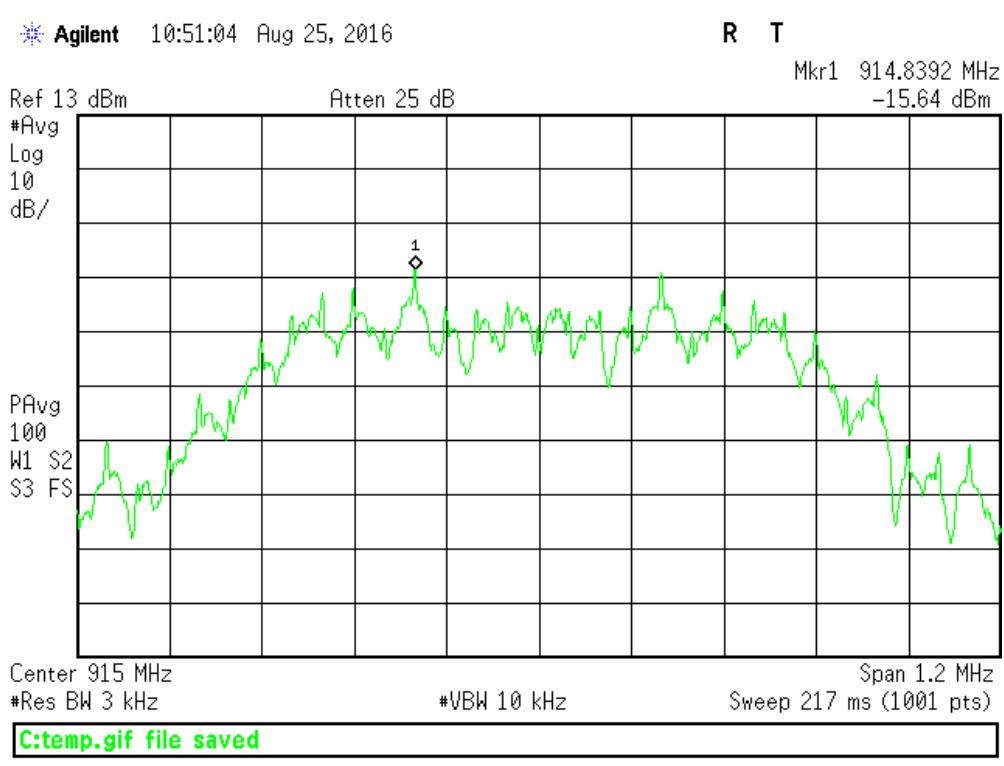
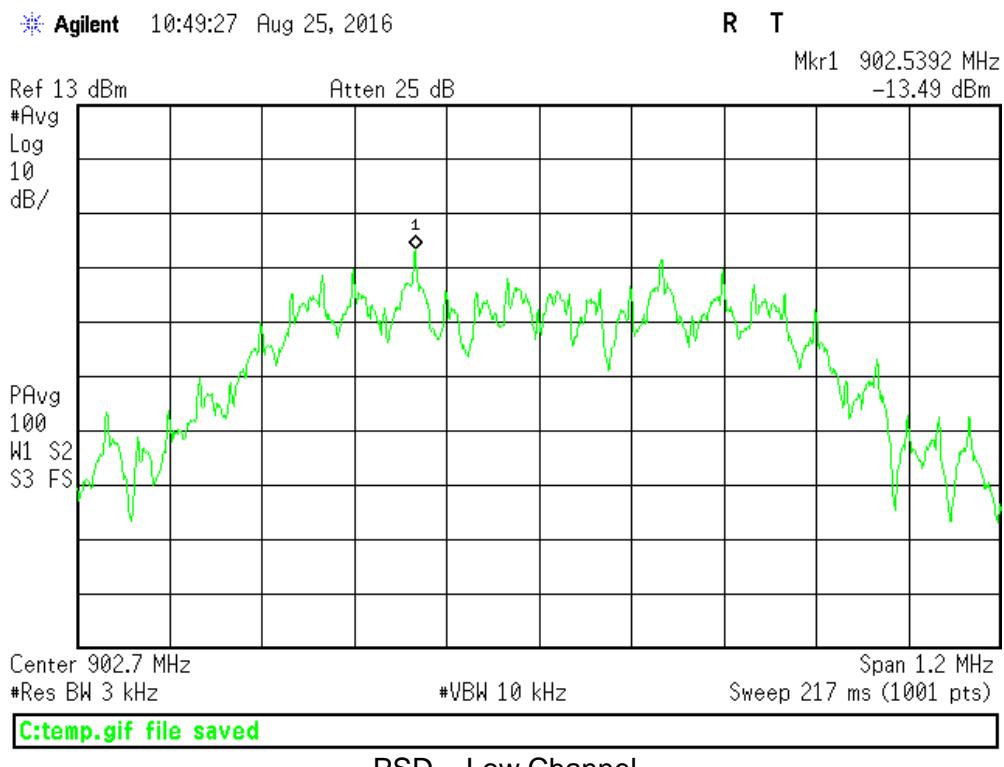
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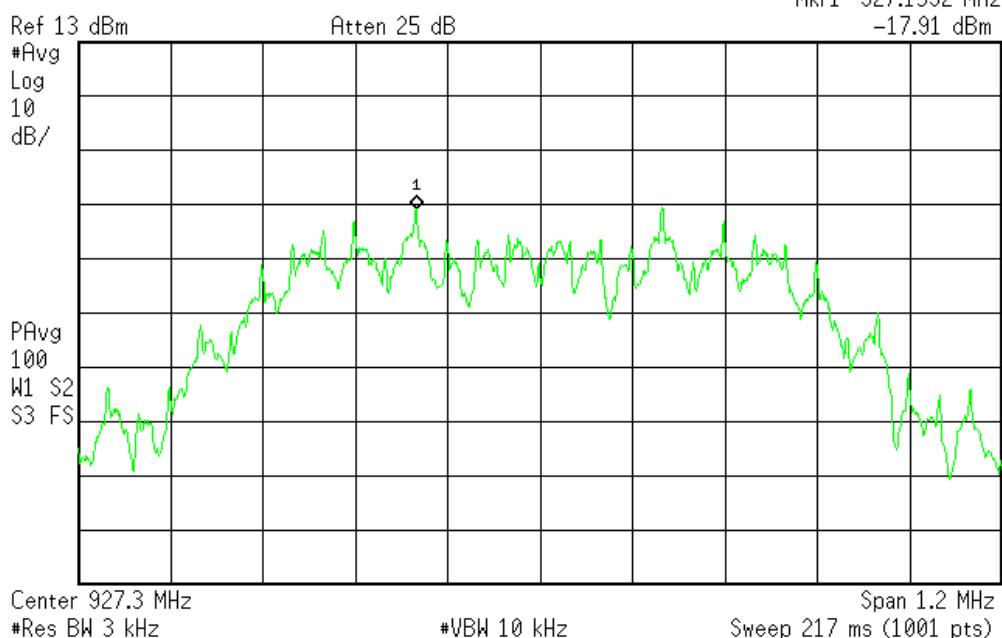
Testing Cert. No. 1627-01

PLOTS



Agilent 10:52:25 Aug 25, 2016

R T

Mkr1 927.1392 MHz
-17.91 dBm

PSD – High Channel



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AC Line Conducted Emissions

LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dB μ V)	Average limit (dB μ V)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

AC Conducted Emissions Data Table

Date: 02-Sep-16		Company: Ideal Industries, Inc.		Work Order: Q2569										
Engineer: Tuyen Truong		EUT Desc: SCD1000												
Temp: 22.7 °C		Humidity: 47%								Pressure: 1010 mBar				
Notes:														
				Frequency Range: 0.15 to 30 MHz		EUT Input Voltage/Frequency: 120Vac/60Hz								
Frequency (MHz)	Quasi-Peak Readings		Average Readings		LISN Factors		Cable Factor	ATTN Factor	FCC 15.207		FCC 15.207			
	QP1 (dB μ V)	QP2 (dB μ V)	AVG1 (dB μ V)	AVG2 (dB μ V)	L1 (dB)	L2 (dB)	(dB)	(dB)	QP Limit (dB μ V)	Margin (dB)	Result (Pass/Fail)	AVG Limit (dB μ V)	Margin (dB)	Result (Pass/Fail)
0.43	25.2	26.3	17.6	19.9	0.0	0.0	-0.1	-20.3	57.2	-10.4	Pass	47.2	-6.8	Pass
0.90	23.1	21.4	11.2	10.8	-0.1	0.0	-0.1	-20.3	56.0	-12.4	Pass	46.0	-14.3	Pass
4.03	19.6	17.8	8.9	8.3	-0.1	-0.1	-0.2	-20.3	56.0	-15.8	Pass	46.0	-16.5	Pass
10.08	18.8	16.7	7.8	6.3	-0.1	-0.1	-0.2	-20.3	60.0	-20.6	Pass	50.0	-21.5	Pass
13.36	20.4	18.7	8.3	6.8	-0.2	-0.2	-0.2	-20.3	60.0	-18.9	Pass	50.0	-21.0	Pass
22.99	18.0	16.2	6.4	5.1	-0.2	-0.2	-0.3	-20.3	60.0	-21.3	Pass	50.0	-22.8	Pass
Result: Pass		Worst Margin:		-6.8 dB		Frequency:		0.433 MHz						
Measurement Device: LISN Asset 1791		Cable: CEMI-01		Spectrum Analyzer: Rental SA #5		Site: CEMI 6		Equipment Factor Sheet rev: 8/24/2016						
C-S CEMI Calculator Version 3.0.14														
Adjusted Reading = Raw Reading + LISN Insertion Loss + Cable Loss + Attenuation														

AC Conducted Emissions Data Table

Date: 02-Sep-16		Company: Ideal Industries, Inc.		Work Order: Q2569										
Engineer: Tuyen Truong		EUT Desc: SCD1000												
Temp: 22.7 °C		Humidity: 47%								Pressure: 1010 mBar				
Notes:														
				Frequency Range: 0.15 to 30 MHz		EUT Input Voltage/Frequency: 277Vac/60Hz								
Frequency (MHz)	Quasi-Peak Readings		Average Readings		LISN Factors		Cable Factor	ATTN Factor	FCC 15.207		FCC 15.207			
	QP1 (dB μ V)	QP2 (dB μ V)	AVG1 (dB μ V)	AVG2 (dB μ V)	L1 (dB)	L2 (dB)	(dB)	(dB)	QP Limit (dB μ V)	Margin (dB)	Result (Pass/Fail)	AVG Limit (dB μ V)	Margin (dB)	Result (Pass/Fail)
0.43	26.7	27.1	19.2	18.4	0.0	0.0	-0.1	-20.3	57.2	-9.7	Pass	47.2	-7.6	Pass
0.90	18.5	20.8	14.6	9.9	-0.1	0.0	-0.1	-20.3	56.0	-14.7	Pass	46.0	-10.9	Pass
4.03	20.1	18.2	10.5	7.6	-0.1	-0.1	-0.2	-20.3	56.0	-15.4	Pass	46.0	-14.9	Pass
10.08	18.9	19.7	11.3	7.0	-0.1	-0.1	-0.2	-20.3	60.0	-19.6	Pass	50.0	-18.1	Pass
13.36	20.0	19.1	8.3	7.1	-0.2	-0.2	-0.2	-20.3	60.0	-19.3	Pass	50.0	-21.0	Pass
22.99	14.9	15.7	4.3	3.9	-0.2	-0.2	-0.3	-20.3	60.0	-23.6	Pass	50.0	-24.9	Pass
Result: Pass		Worst Margin:		-7.6 dB		Frequency:		0.433 MHz						
Measurement Device: LISN Asset 1791		Cable: CEMI-01		Spectrum Analyzer: Rental SA #5		Site: CEMI 6		Equipment Factor Sheet rev: 8/24/2016						
C-S CEMI Calculator Version 3.0.14														
Adjusted Reading = Raw Reading + LISN Insertion Loss + Cable Loss + Attenuation														



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Testing Cert. No. 1627-01

Rev. 8/29/2016

Spectrum Analyzers / Receivers / Preselectors SA EMI Chamber (1327)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY45103416	Asset 1327	Cat I	Calibration Due 8/4/2017	Calibrated on 8/4/2016
LISNs/Measurement Probes LISN Asset 1791	Range 9kHz-30MHz	MN NNLK 8121	Mfr Schwarzbeck	SN NNLK 8121-603	Asset 1791	Cat I	Calibration Due 6/23/2017	Calibrated on 6/23/2016
Conducted Test Sites (Mains / Telco) CEMI 6	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2082		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2082	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Cables CEMI-01	Range 9kHz - 2GHz		Mfr C-S			Cat II	Calibration Due 9/11/2016	Calibrated on 9/11/2015
Attenuators 20dB Attenuator-60	Range 9kHz-2GHz	MN N/A	Mfr	SN	Asset	Cat II	Calibration Due 4/12/2017	Calibrated on 4/12/2016

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



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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: 25-Aug-16	Company: Ideal Industries, Inc.					Work Order: Q2569												
Engineer: Tuyen Truong	EUT Desc: SCD1000					EUT Operating Voltage/Frequency: 120Vac/60Hz												
Temp: 23.4°C	Humidity: 50%					Pressure: 1010mBar												
Frequency Range: 902.7-927.3 MHz																		
Notes:																		
Frequency (MHz)	Occupied Bandwidth Reading (kHz)																	
902.7	764.7554																	
915	765.6934																	
927.3	766.9552																	
Test Site: CEMI5	Attenuation: Asset#791																	
Analyzer: SA#1328																		
Copyright Curtis-Straus LLC 2000																		

Rev. 8/21/2016

Spectrum Analyzers / Receivers /Preselectors SA EMI Chamber (1328)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY44210241	Asset 1328	Cat I	Calibration Due 2/26/2017	Calibrated on 2/26/2016
Conducted Test Sites (Mains / Telco) CEMI 5	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2085		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 2085	Asset 831 2085	Cat I II	Calibration Due 4/28/2018 4/5/2017	Calibrated on 4/28/2016 4/5/2016
Preamps /Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasterнак	SN 1	Asset 791	Cat II	Calibration Due 8/14/2017	Calibrated on 8/14/2016

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



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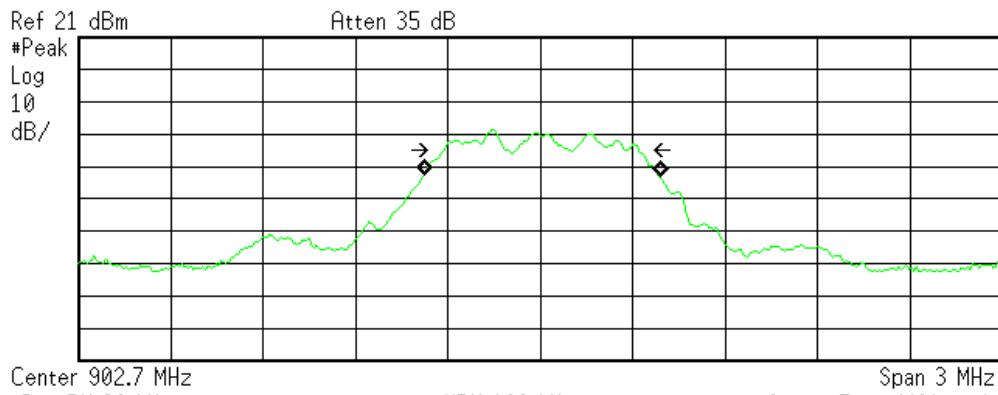
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Plot(s)

Agilent 08:09:27 Aug 25, 2016

R T



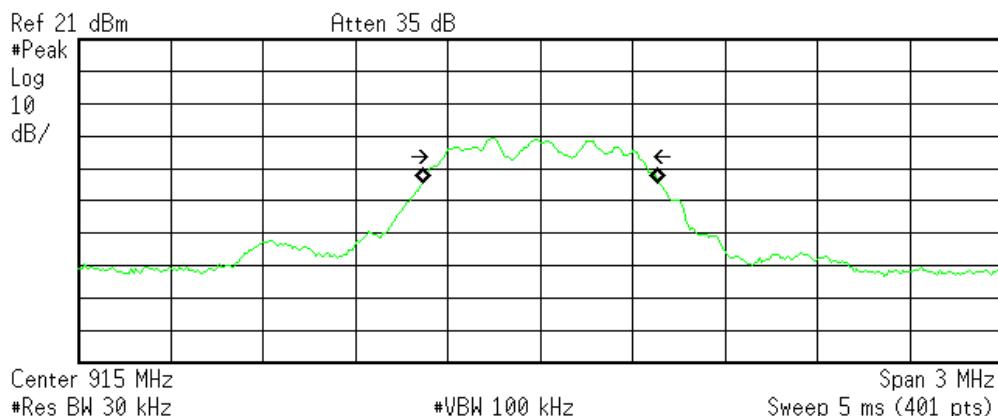
Transmit Freq Error 3.933 kHz
x dB Bandwidth 633.769 kHz

C:\temp.gif file saved

Occupied Bandwidth – Low Channel

Agilent 08:16:35 Aug 25, 2016

R T



Transmit Freq Error 3.254 kHz
x dB Bandwidth 634.038 kHz

C:\temp.gif file saved

Occupied Bandwidth – Middle Channel



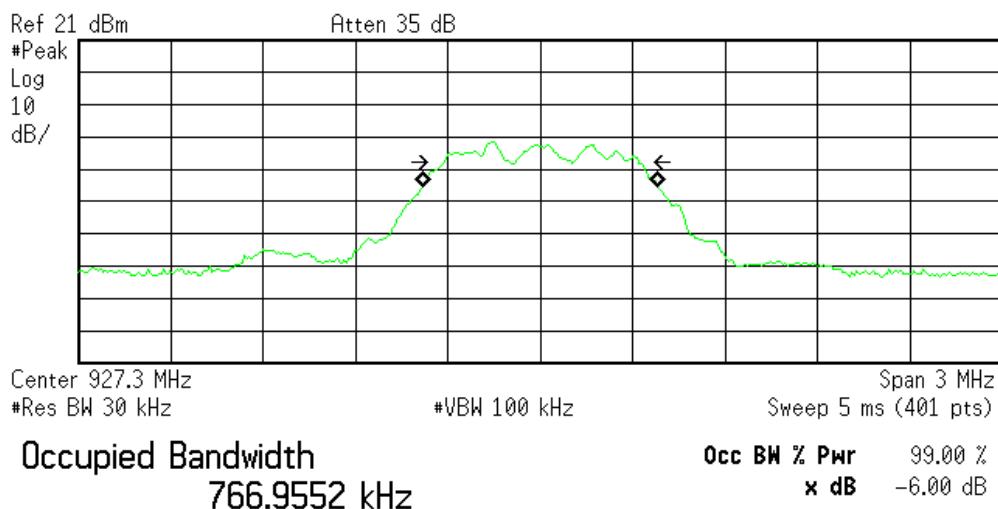
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 Agilent 08:27:13 Aug 25, 2016

R T



Transmit Freq Error 742.731 Hz
x dB Bandwidth 634.287 kHz

C:\temp.gif file saved

Occupied Bandwidth – High Channel



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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 CISPR	5.6dB 4.6dB	N/A 5.2dB (Ucispr)
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 CISPR	3.9dB 3.6dB	N/A 3.6dB (Ucispr)
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	23.1%	N/A
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)	3.23×10^{-8}	1×10^{-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	1.3%	3%
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 were 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



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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.

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.

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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