

Enlighted, Inc.

TEST REPORT FOR

Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems Model: SU-2-00

Tested To The Following Standards:

FCC Part 15 Subpart C Sections 15.207, 15.247
and
RSS 210 Issue 8

Report No.: 92667-7

Date of issue: January 25, 2012



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

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

TABLE OF CONTENTS

Administrative Information	3
Test Report Information	3
Report Authorization	3
Test Facility Information	4
Site Registration & Accreditation Information	4
Summary of Results	5
Conditions During Testing	5
Equipment Under Test	6
Peripheral Devices	6
FCC Part 15 Subpart C	7
15.207 AC Conducted Emissions	7
15.247 (a)(2) -6dBc Occupied Bandwidth	16
15.247(b)(3) RF Power Output	19
Bandedge	21
15.247(d) Radiated Spurious Emissions	24
15.247(e) Power Spectral Density	75
RSS-210	77
99 % Bandwidth	77
Supplemental Information	80
Measurement Uncertainty	80
Emissions Test Details	80

ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Enlighted, Inc.
930 Benecia Ave.
Sunnyvale, CA 94085

Representative: Po Chiu

REPORT PREPARED BY:

Dianne Dudley
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 92667

DATE OF EQUIPMENT RECEIPT:

January 10, 2012

DATE(S) OF TESTING:

January 10-12, 2012

Report Authorization

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

A handwritten signature in black ink that reads "Steve Behm".

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

Test Facility Information



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

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Site Registration & Accreditation Information

Location	CB #	Japan	Canada	FCC
Fremont	US0082	R-2160, C-2332, T-228 & G-522	3082B-1	958979

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C 15.209, 15.247 and RSS 210 Issue 8

Description	Test Procedure/Method	Results
Voltage Variation	FCC Part 15 Subpart C Section 15.31(e)	Pass
AC Conducted Emissions	FCC Part 15 Subpart C Section 15.207 / ANSI C63.4 (2003)	Pass
-6dBc Occupied Bandwidth	FCC Part 15 Subpart C Section 15.247(a)(2) / DA 00-705	Pass
RF Power Output	FCC Part 15 Subpart C Section 15.247(b)(3) / DA 00-705	Pass
Bandedge	FCC Part 15 Subpart C Section 15.247(d) / DA 00-705 /	Pass
Radiated Spurious Emissions	FCC Part 15 Subpart C Section 15.247(d) / 15.209 / DA 00-705	Pass
Power Spectral Density	FCC Part 15 Subpart C 15.247(e) / DA 00-705	Pass
99% Bandwidth	RSS 210 Issue 8	Pass

Conditions During Testing

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

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

EQUIPMENT UNDER TEST

Intelligent Light Sensor for Smart Networked Energy
Saving Lighting Systems

Manuf: Enlighted, Inc.

Model: SU-2-00

Serial: ASI48295 Rev C

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

AC Adaptor

Manuf: None

Model: AD35-0900300DU

Serial: 2302AA

Laptop

Manuf: Acer

Model: Aspire 5750 Series

Serial: LXR9702166123024B71601

AC Adapter

Manuf: Delta Electronics, Inc.

Model: ADP-65VH B

Serial: 679W1480GFA

FCC PART 15 SUBPART C

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

15.207 AC Conducted Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**

Specification: **15.207 AC Mains - Average**

Work Order #: **92667**

Date: 1/10/2012

Test Type: **Conducted Emissions**

Time: 1:45:53 PM

Equipment: **Intelligent Light Sensor for Smart
Networked Energy Saving Lighting
Systems**

Sequence#: 7

Manufacturer: **Enlighted, Inc.**

Tested By: **A. Brar**

Model: **SU-2-00**

110V 60Hz

S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T2	ANP05440	Cable		3/7/2011	3/7/2013
T3	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/2/2010	12/2/2012
T4	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T5	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/10/2011	3/10/2013
	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/10/2011	3/10/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA

Test Conditions / Notes:

FCC15.207B 0.15-30MHz Conducted Emissions. Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa. EUT is in continuous transmit mode set to middle channel. The EUT has 16 channels, 1 through 15. EUT is setup in typical mounting configuration.

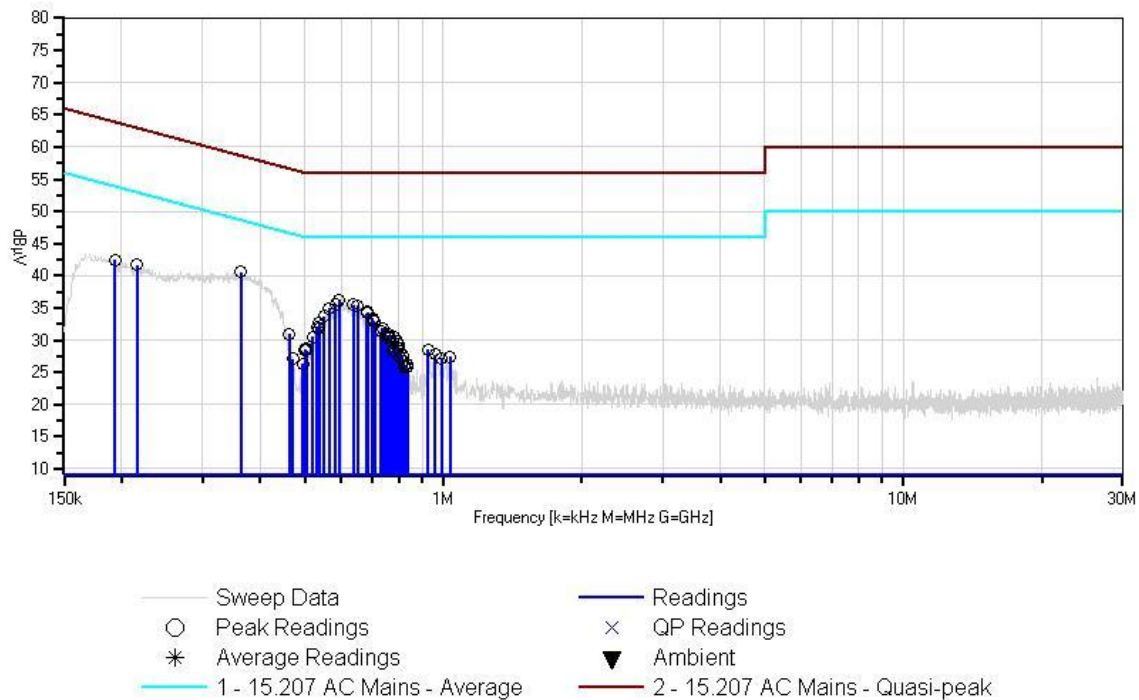
Ext Attn: 0 dB

Measurement Data:			Reading listed by margin.					Test Lead: Black			
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	363.071k	29.9	+0.0 +0.8	+0.0	+0.1	+9.8	+0.0	40.6	48.7	-8.1	Black
2	593.596k	25.6	+0.0 +0.6	+0.0	+0.2	+9.9	+0.0	36.3	46.0	-9.7	Black
3	582.688k	24.9	+0.0 +0.6	+0.0	+0.2	+9.9	+0.0	35.6	46.0	-10.4	Black
4	637.228k	24.9	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	35.5	46.0	-10.5	Black
5	652.499k	24.8	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	35.4	46.0	-10.6	Black
6	564.507k	24.2	+0.0 +0.6	+0.0	+0.2	+9.9	+0.0	34.9	46.0	-11.1	Black
7	216.176k	30.1	+0.0 +1.6	+0.0	+0.1	+9.9	+0.0	41.7	53.0	-11.3	Black
8	193.632k	30.5	+0.0 +1.8	+0.0	+0.2	+9.9	+0.0	42.4	53.9	-11.5	Black
9	685.224k	23.8	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	34.4	46.0	-11.6	Black
10	681.588k	23.6	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	34.2	46.0	-11.8	Black
11	550.691k	23.0	+0.0 +0.6	+0.0	+0.2	+9.9	+0.0	33.7	46.0	-12.3	Black
12	702.677k	22.8	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	33.4	46.0	-12.6	Black
13	704.858k	22.4	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	33.0	46.0	-13.0	Black
14	708.494k	22.2	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	32.8	46.0	-13.2	Black
15	536.874k	22.2	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	32.7	46.0	-13.3	Black
16	531.056k	21.6	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	32.1	46.0	-13.9	Black
17	737.582k	21.2	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	31.8	46.0	-14.2	Black
18	740.491k	21.2	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	31.8	46.0	-14.2	Black

19	538.328k	21.2	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	31.7	46.0	-14.3	Black
20	733.946k	20.7	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	31.3	46.0	-14.7	Black
21	760.853k	20.3	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	30.8	46.0	-15.2	Black
22	755.763k	20.2	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	30.7	46.0	-15.3	Black
23	749.945k	20.0	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	30.5	46.0	-15.5	Black
24	765.943k	20.0	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	30.5	46.0	-15.5	Black
25	784.851k	20.0	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	30.5	46.0	-15.5	Black
26	520.148k	20.0	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	30.5	46.0	-15.5	Black
27	463.426k	20.3	+0.0 +0.7	+0.0	+0.1	+9.8	+0.0	30.9	46.6	-15.7	Black
28	791.396k	19.3	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	29.8	46.0	-16.2	Black
29	797.941k	18.9	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	29.4	46.0	-16.6	Black
30	795.759k	18.4	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	28.9	46.0	-17.1	Black
31	501.968k	18.1	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	28.6	46.0	-17.4	Black
32	800.849k	18.1	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	28.6	46.0	-17.4	Black
33	500.513k	18.0	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	28.5	46.0	-17.5	Black
34	782.669k	18.0	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	28.5	46.0	-17.5	Black
35	928.238k	18.2	+0.0 +0.4	+0.0	+0.1	+9.8	+0.0	28.5	46.0	-17.5	Black
36	504.877k	17.9	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	28.4	46.0	-17.6	Black
37	775.397k	17.9	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	28.4	46.0	-17.6	Black
38	807.394k	17.8	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	28.3	46.0	-17.7	Black
39	962.259k	17.4	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	27.8	46.0	-18.2	Black
40	816.121k	17.0	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	27.5	46.0	-18.5	Black
41	1.035M	17.0	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	27.4	46.0	-18.6	Black
42	804.485k	16.8	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	27.3	46.0	-18.7	Black
43	992.029k	16.8	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	27.2	46.0	-18.8	Black
44	817.575k	16.3	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	26.8	46.0	-19.2	Black

45	471.425k	16.5	+0.0 +0.7	+0.0	+0.1	+9.8	+0.0	27.1	46.5	-19.4	Black
46	495.423k	15.8	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	26.3	46.1	-19.8	Black
47	834.301k	15.8	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	26.2	46.0	-19.8	Black
48	824.120k	15.6	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	26.1	46.0	-19.9	Black
49	836.482k	15.4	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	25.8	46.0	-20.2	Black
50	820.484k	15.2	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	25.7	46.0	-20.3	Black

CKC Laboratories, Inc. Date: 1/10/2012 Time: 1:45:53 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
15.207 AC Mains - Average Test Lead: Black 110V 60Hz Sequence#: 7 Black



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **92667** Date: 1/10/2012
 Test Type: **Conducted Emissions** Time: 1:38:16 PM
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 6
 Manufacturer: **Enlighted, Inc.** Tested By: **A. Brar**
 Model: **SU-2-00** 110V 60Hz
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T2	ANP05440	Cable		3/7/2011	3/7/2013
T3	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/2/2010	12/2/2012
T4	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/10/2011	3/10/2013
T5	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/10/2011	3/10/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA

Test Conditions / Notes:

FCC15.207B 0.15-30MHz Conducted Emissions.
 Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa.
 EUT is in continuous transmit mode set to middle channel.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

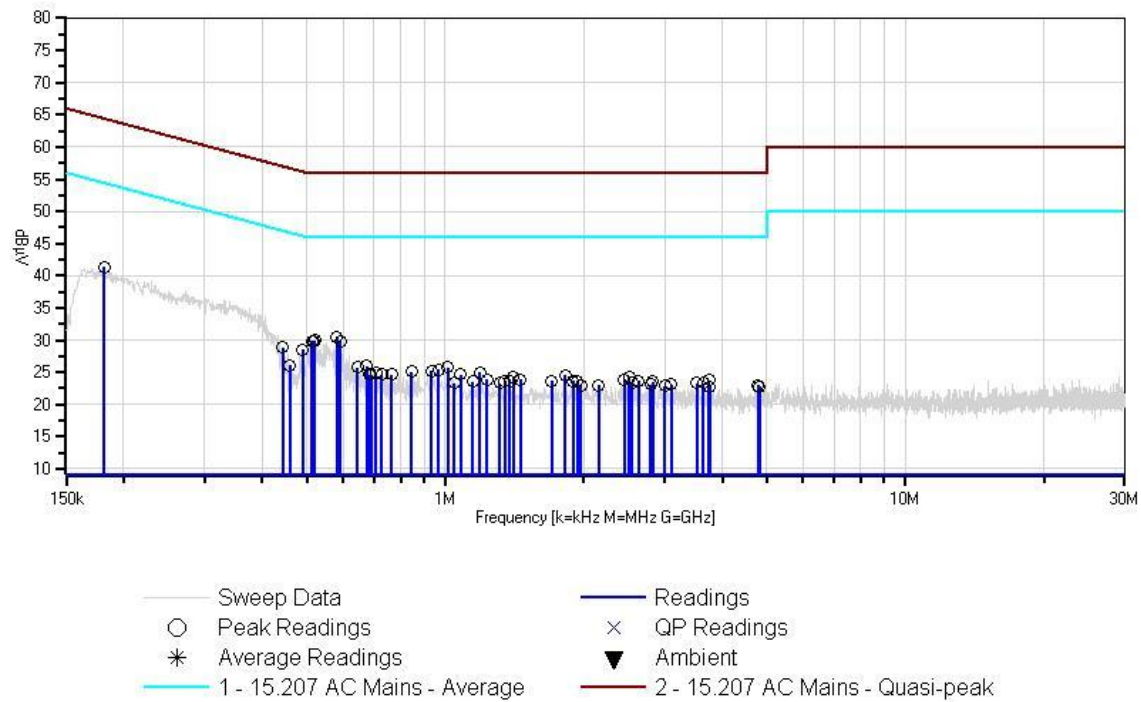
Test Lead: White

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	T5								
			dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	181.270k	29.2	+0.0 +1.9	+0.0	+0.3	+9.9	+0.0	41.3	54.4	-13.1	White
2	581.960k	19.7	+0.0 +0.6	+0.0	+0.2	+9.9	+0.0	30.4	46.0	-15.6	White

3	520.148k	19.5	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	30.0	46.0	-16.0	White
4	516.512k	19.4	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	29.9	46.0	-16.1	White
5	592.868k	19.2	+0.0 +0.6	+0.0	+0.2	+9.9	+0.0	29.9	46.0	-16.1	White
6	513.603k	19.3	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	29.8	46.0	-16.2	White
7	489.605k	18.0	+0.0 +0.6	+0.0	+0.1	+9.8	+0.0	28.5	46.2	-17.7	White
8	443.064k	18.3	+0.0 +0.7	+0.0	+0.1	+9.8	+0.0	28.9	47.0	-18.1	White
9	675.043k	15.4	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	26.0	46.0	-20.0	White
10	1.013M	15.4	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	25.8	46.0	-20.2	White
11	644.500k	15.1	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	25.7	46.0	-20.3	White
12	459.063k	15.5	+0.0 +0.7	+0.0	+0.1	+9.8	+0.0	26.1	46.7	-20.6	White
13	966.512k	15.0	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	25.4	46.0	-20.6	White
14	932.490k	14.9	+0.0 +0.4	+0.0	+0.1	+9.8	+0.0	25.2	46.0	-20.8	White
15	843.755k	14.6	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	25.1	46.0	-20.9	White
16	1.188M	14.5	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	25.0	46.0	-21.0	White
17	707.040k	14.3	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	24.9	46.0	-21.1	White
18	727.402k	14.1	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	24.7	46.0	-21.3	White
19	690.314k	14.0	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	24.6	46.0	-21.4	White
20	683.769k	14.0	+0.0 +0.5	+0.0	+0.2	+9.9	+0.0	24.6	46.0	-21.4	White
21	1.081M	14.2	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	24.6	46.0	-21.4	White
22	764.489k	14.1	+0.0 +0.5	+0.0	+0.2	+9.8	+0.0	24.6	46.0	-21.4	White
23	1.826M	14.1	+0.0 +0.4	+0.1	+0.1	+9.8	+0.0	24.5	46.0	-21.5	White
24	2.510M	13.8	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	24.3	46.0	-21.7	White
25	1.405M	13.7	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	24.2	46.0	-21.8	White
26	1.234M	13.4	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.9	46.0	-22.1	White
27	1.456M	13.5	+0.0 +0.4	+0.1	+0.1	+9.8	+0.0	23.9	46.0	-22.1	White
28	2.451M	13.4	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.9	46.0	-22.1	White

29	3.748M	13.3	+0.1 +0.4	+0.1	+0.1	+9.8	+0.0	23.8	46.0	-22.2	White
30	1.383M	13.2	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.7	46.0	-22.3	White
31	1.702M	13.3	+0.0 +0.4	+0.1	+0.1	+9.8	+0.0	23.7	46.0	-22.3	White
32	1.898M	13.3	+0.0 +0.4	+0.1	+0.1	+9.8	+0.0	23.7	46.0	-22.3	White
33	1.345M	13.1	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.6	46.0	-22.4	White
34	1.940M	13.2	+0.0 +0.4	+0.1	+0.1	+9.8	+0.0	23.6	46.0	-22.4	White
35	2.629M	13.1	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.6	46.0	-22.4	White
36	1.149M	13.0	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.5	46.0	-22.5	White
37	2.829M	13.0	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.5	46.0	-22.5	White
38	1.315M	12.8	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.3	46.0	-22.7	White
39	1.047M	12.9	+0.0 +0.4	+0.0	+0.2	+9.8	+0.0	23.3	46.0	-22.7	White
40	2.544M	12.8	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.3	46.0	-22.7	White
41	3.637M	12.8	+0.1 +0.4	+0.1	+0.1	+9.8	+0.0	23.3	46.0	-22.7	White
42	3.527M	12.8	+0.1 +0.4	+0.1	+0.1	+9.8	+0.0	23.3	46.0	-22.7	White
43	2.799M	12.6	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.1	46.0	-22.9	White
44	3.097M	12.6	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	23.1	46.0	-22.9	White
45	1.974M	12.6	+0.0 +0.4	+0.1	+0.1	+9.8	+0.0	23.0	46.0	-23.0	White
46	2.157M	12.6	+0.0 +0.4	+0.1	+0.1	+9.8	+0.0	23.0	46.0	-23.0	White
47	4.794M	12.4	+0.0 +0.5	+0.1	+0.1	+9.9	+0.0	23.0	46.0	-23.0	White
48	2.999M	12.4	+0.0 +0.4	+0.1	+0.2	+9.8	+0.0	22.9	46.0	-23.1	White
49	3.756M	12.3	+0.1 +0.4	+0.1	+0.1	+9.8	+0.0	22.8	46.0	-23.2	White
50	4.815M	12.2	+0.0 +0.5	+0.1	+0.1	+9.9	+0.0	22.8	46.0	-23.2	White

CKC Laboratories, Inc. Date: 1/10/2012 Time: 1:38:16 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.207 AC Mains - Average Test Lead: White 110V 60Hz Sequence#: 6 White



Test Setup Photos



15.247 (a)(2) -6dBc Occupied Bandwidth

Test Conditions / Setup

The EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. The EUT is setup in typical mounting configuration.

Temperature: 19.1°C,

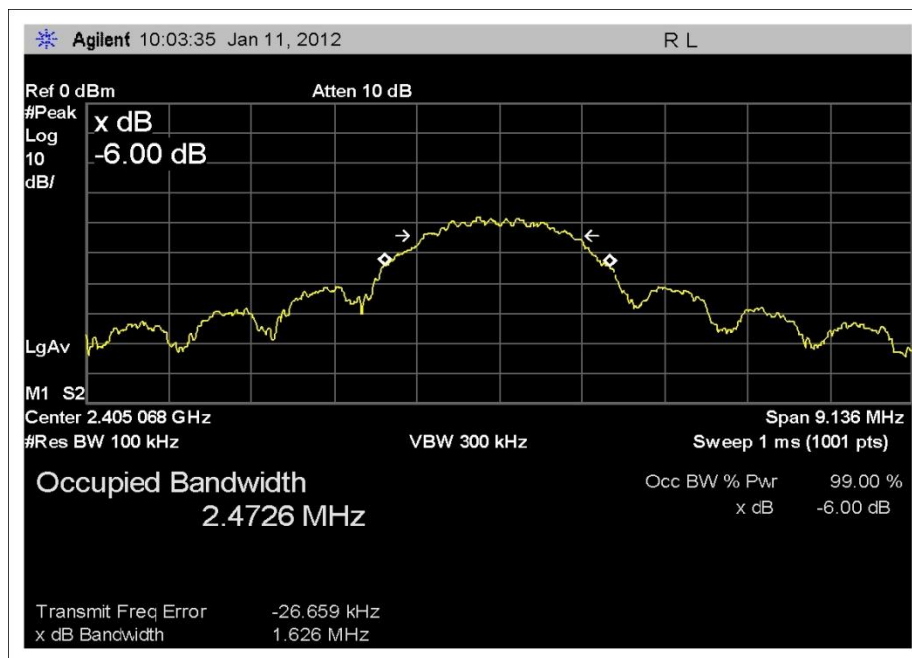
Relative Humidity: 35%

Atmospheric Pressure: 102kPa.

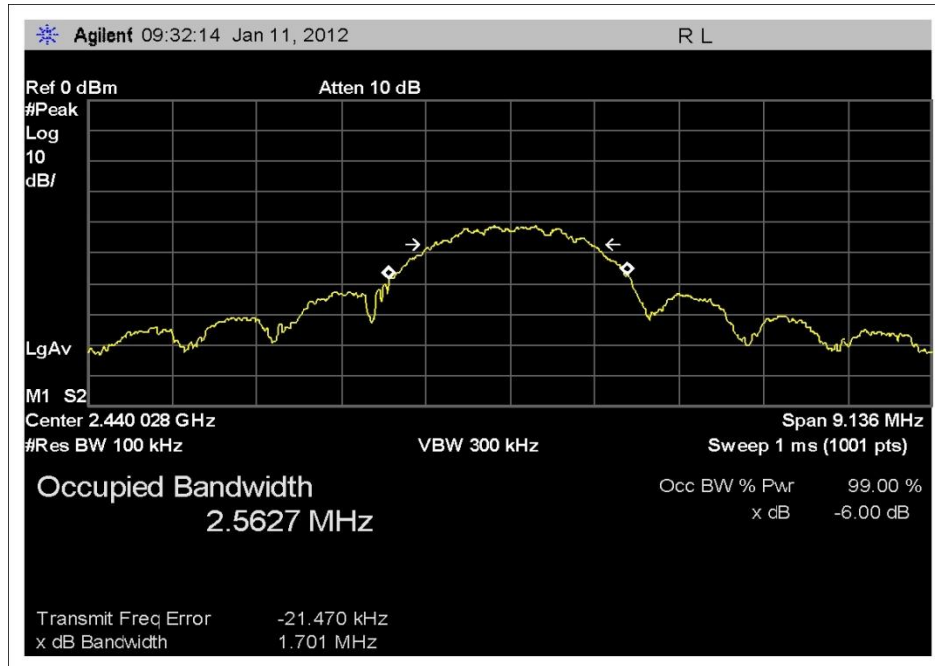
Engineer Name: A. Brar

Test Equipment					
Asset/Serial #	Description	Model	Manufacturer	Cal Date	Cal Due
AN02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
ANP05138	Cable	FSJ1P-50A-4	Andrews	3/19/2010	3/19/2012
ANP04241	Cable	FSJ1-50A	Andrews	3/2/2010	3/2/2012
AN02061	Horn Antenna-ANSI C63.5	DRG-118A	ARA	1/17/2011	1/17/2013

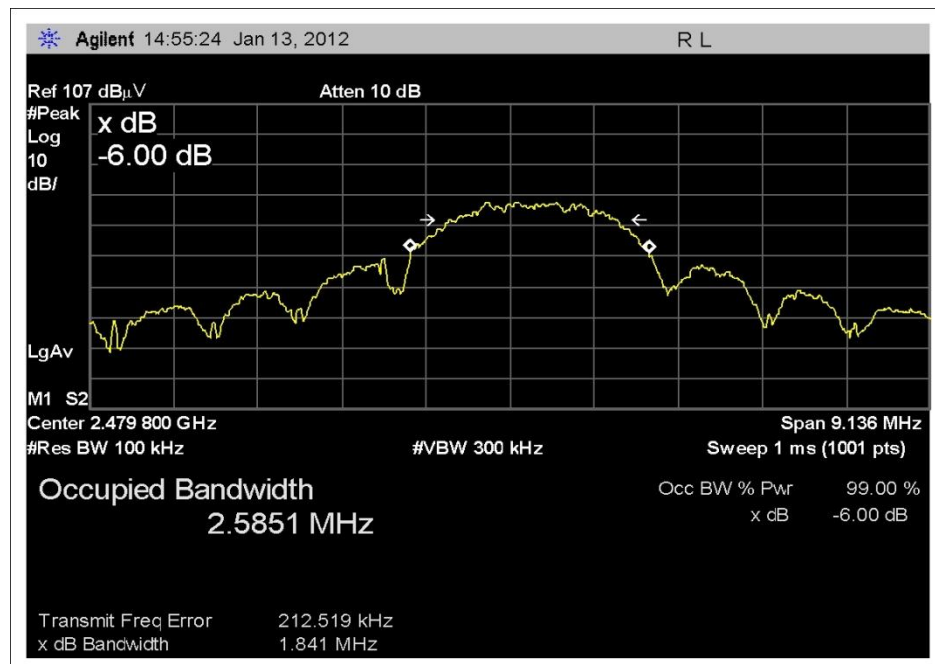
Test Plots



Low Channel



Mid Channel



High Channel

Test Setup Photos



15.247(b)(3) RF Power Output

Test Conditions / Setup

The EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. The EUT is setup in typical mounting configuration.

RBW/VBW 3/8MHz

Temperature: 19.1°C

Relative Humidity: 35%

Atmospheric Pressure: 102kPa.

*FCC15.31e is covered by this data as the voltage was varied to 85% and 115% of the nominal EUT voltage of 12V DC. FCC15.31m is covered by this data, three channels were tested.

Engineer Name: A. Brar

Test Equipment					
Asset/Serial #	Description	Model	Manufacturer	Cal Date	Cal Due
AN02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
ANP05138	Cable	FSJ1P-50A-4	Andrews	3/19/2010	3/19/2012
ANP04241	Cable	FSJ1-50A	Andrews	3/2/2010	3/2/2012
AN02061	Horn Antenna-ANSI C63.5	DRG-118A	ARA	1/17/2011	1/17/2013
AN03218	DC Power Supply	72-6610	Tenma	2/15/11	2/15/13
AN02131	DMM	DMM914	Tektronix	9/9/11	9/9/13

Test Data

Test Results			
Frequency (MHz)	Measured Power in Watts	Power Limit in Watts	Pass/Fail
2404.50 Low Channel	0.0078908	1.00	Pass
2439.58 Middle Channel	0.0039548	1.00	Pass
2479.66 High Channel	0.0057164	1.00	Pass

Test Setup Photos



Bandedge

Test Conditions / Setup

The EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. The EUT is setup in typical mounting configuration. The EUT meets the requirements at low and high channels using average detector, 10Hz VBW.

RBW/VBW 1/3MHz

Temperature: 19.1°C

Relative Humidity: 35%

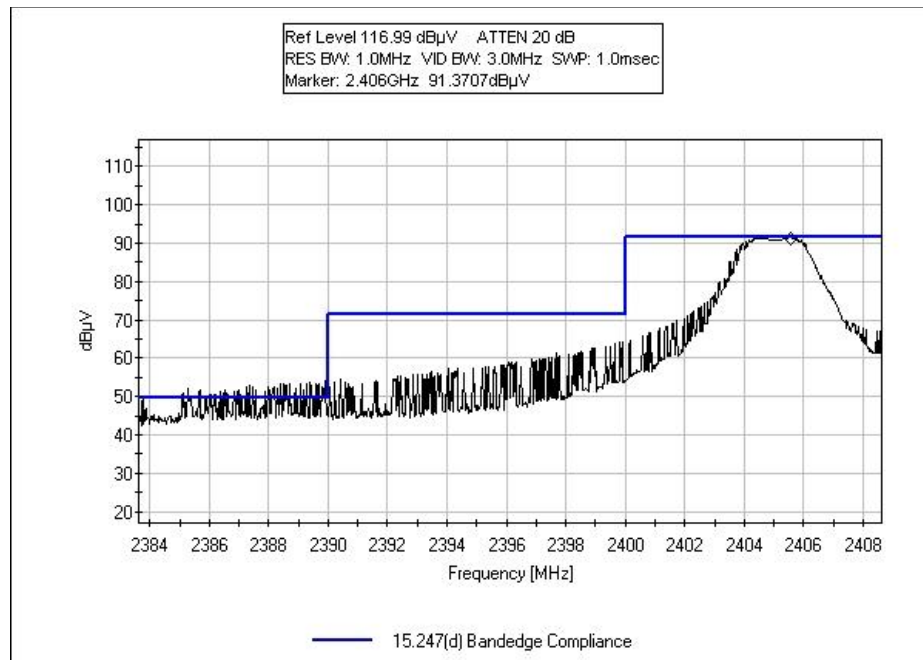
Atmospheric Pressure: 102kPa.

Engineer Name: A. Brar

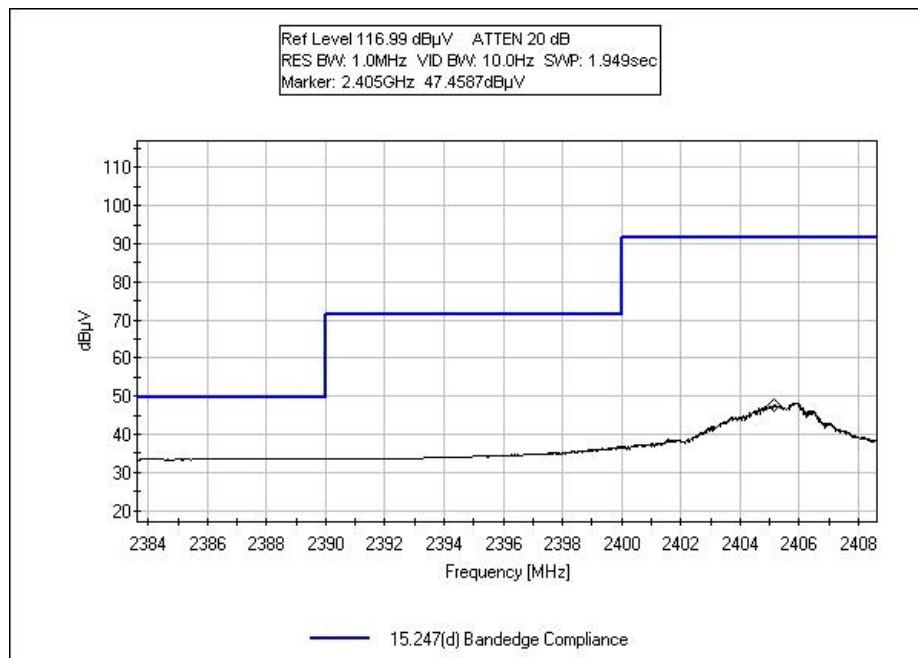
Test Equipment

Asset/Serial #	Description	Model	Manufacturer	Cal Date	Cal Due
AN02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
ANP05138	Cable	FSJ1P-50A-4	Andrews	3/19/2010	3/19/2012
ANP04241	Cable	FSJ1-50A	Andrews	3/2/2010	3/2/2012
AN02061	Horn Antenna-ANSI C63.5	DRG-118A	ARA	1/17/2011	1/17/2013

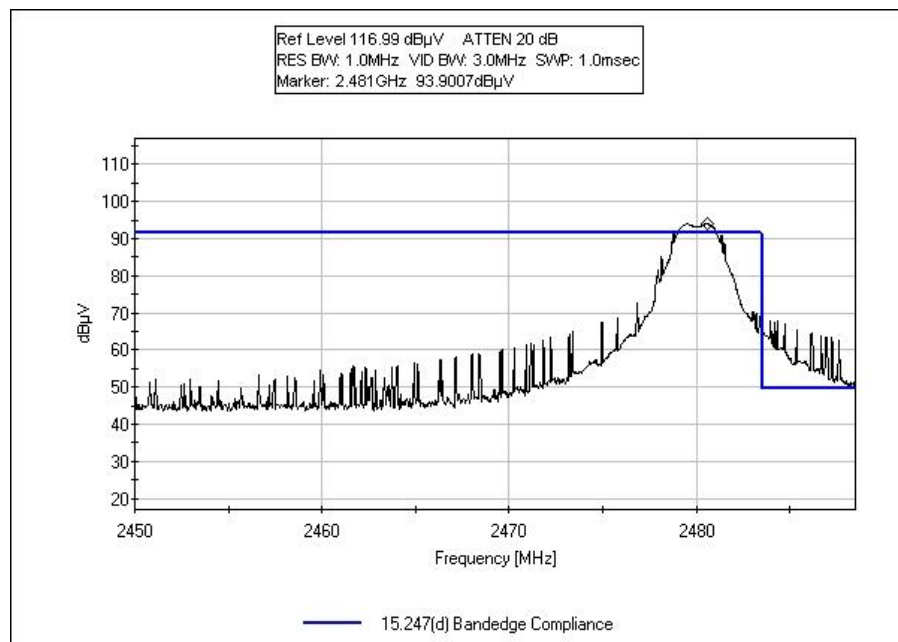
Test Data



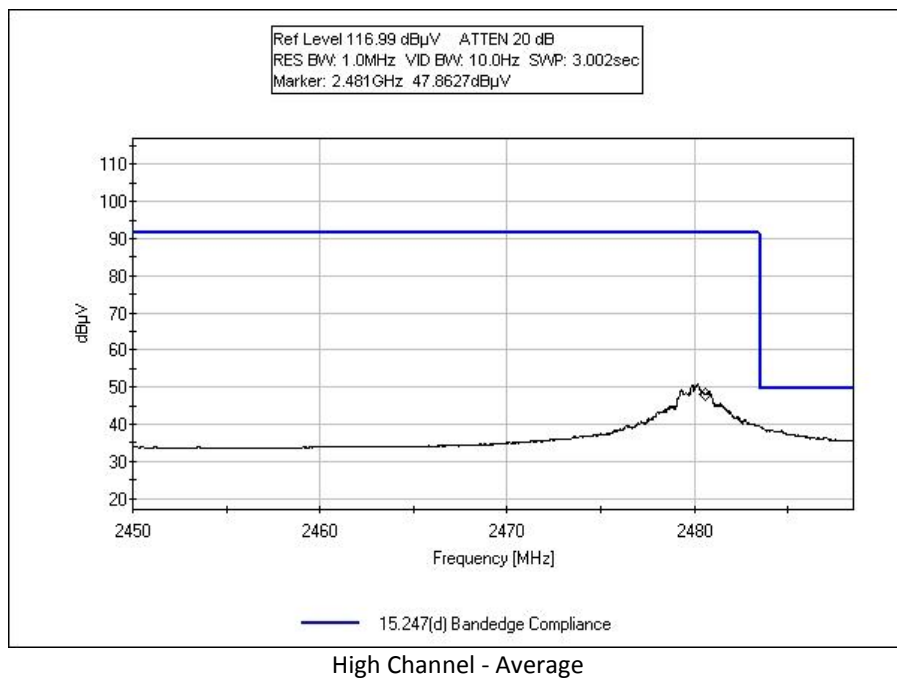
Low Channel



Low Channel - Average



High Channel



Test Setup Photos



15.247(d) Radiated Spurious Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **92667** Date: 1/10/2012
 Test Type: **Maximized Emissions** Time: 4:21:32 PM
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 25
 Manufacturer: Enlighted, Inc. Tested By: A. Brar
 Model: SU-2-00
 S/N: ASI48295 Rev C

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T2	ANP05440	Cable		3/7/2011	3/7/2013
T3	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

0.09 - 30MHz Radiated Emissions
 EUT set to Lo-Ch.
 Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.247 is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

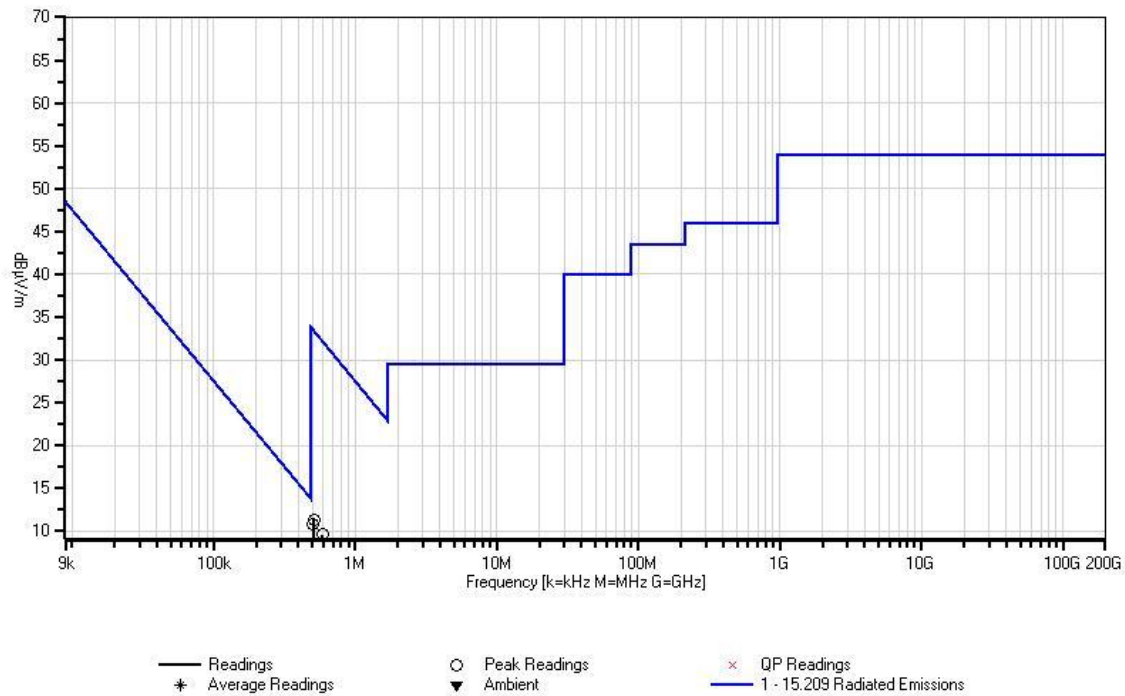
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	513.782k	40.3	+0.0	+0.0	+11.1		-40.0 -5	11.4	33.4	-22.0	Perpe 100
2	829.478k	35.4	+0.0	+0.0	+11.4		-40.0 -5	6.8	29.2	-22.4	Paral 100
3	593.229k	38.3	+0.0	+0.0	+11.3		-40.0 -5	9.6	32.1	-22.5	Paral 100
4	505.419k	39.8	+0.0	+0.0	+11.1		-40.0 -5	10.9	33.5	-22.6	Paral 100
5	837.841k	35.1	+0.0	+0.0	+11.4		-40.0 -5	6.5	29.1	-22.6	Paral 100
6	695.673k	36.6	+0.0	+0.0	+11.5		-40.0 -5	8.1	30.7	-22.6	Perpe 100
7	714.490k	36.3	+0.0	+0.0	+11.5		-40.0 -5	7.8	30.5	-22.7	Paral 100
8	802.299k	35.4	+0.0	+0.0	+11.4		-40.0 -5	6.8	29.5	-22.7	Paral 100
9	620.408k	37.6	+0.0	+0.0	+11.3		-40.0 -5	8.9	31.7	-22.8	Perpe 100
10	727.034k	36.1	+0.0	+0.0	+11.5		-40.0 -5	7.6	30.4	-22.8	Paral 100

CKC Laboratories, Inc. Date: 1/10/2012 Time: 4:21:32 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.209 Radiated Emissions Test Distance: 3 Meters Sequence#: 25 Parallel



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **92667** Date: 1/10/2012
 Test Type: **Maximized Emissions** Time: 4:09:45 PM
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 24
 Manufacturer: **Enlighted, Inc.** Tested By: A. Brar
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T2	ANP05440	Cable		3/7/2011	3/7/2013
T3	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

0.09 - 30MHz Radiated Emissions
 EUT set to Mid-Ch.
 Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.247 is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

Measurement Data:

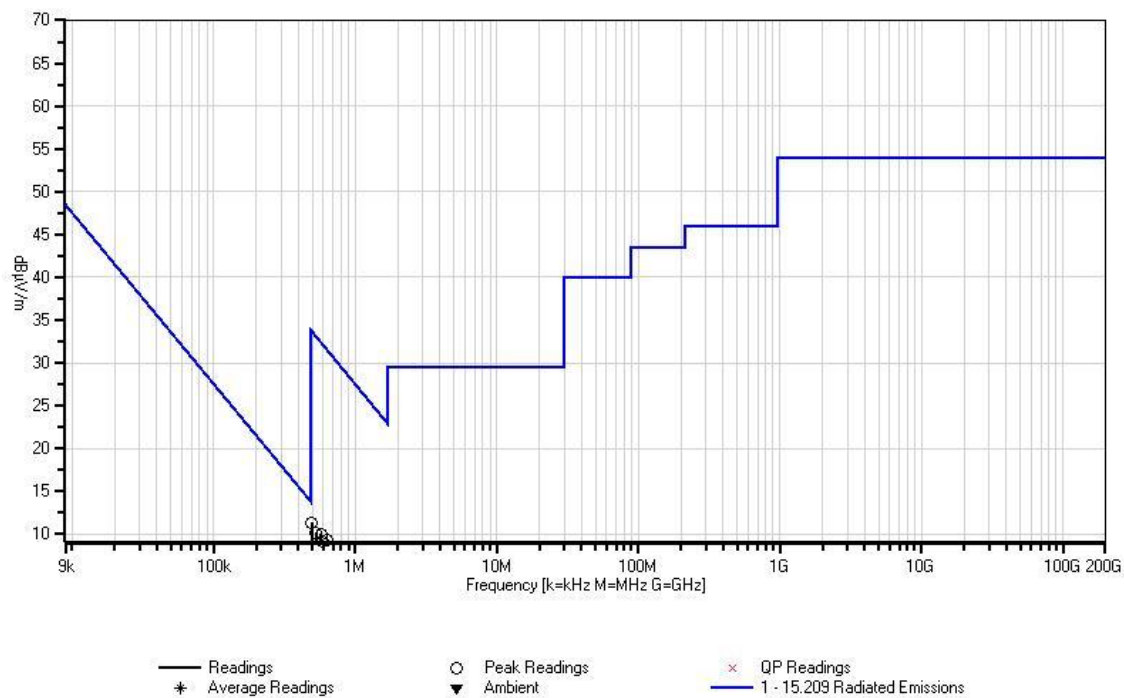
Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	643.406k	38.0	+0.0	+0.0	+11.4	-40.0	-5	9.4	31.4	-22.0	Perpe 100
2	578.594k	38.7	+0.0	+0.0	+11.3	-40.0	-5	10.0	32.3	-22.3	Perpe 100
3	672.676k	37.3	+0.0	+0.0	+11.4	-40.0	-5	8.7	31.0	-22.3	Perpe 100
4	497.057k	40.3	+0.0	+0.0	+11.1	-40.0	-5	11.4	33.7	-22.3	Paral 100
5	743.759k	36.2	+0.0	+0.0	+11.5	-40.0	-5	7.7	30.2	-22.5	Perpe 100

6	837.841k	34.9	+0.0	+0.0	+11.4	-40.0 -5	6.3	29.1	-22.8	Paral 100
7	806.480k	35.2	+0.0	+0.0	+11.4	-40.0 -5	6.6	29.4	-22.8	Paral 100
8	530.508k	39.0	+0.0	+0.0	+11.2	-40.0 -5	10.2	33.1	-22.9	Perpe 100
9	706.127k	36.2	+0.0	+0.0	+11.5	-40.0 -5	7.7	30.6	-22.9	Perpe 100
10	591.138k	37.9	+0.0	+0.0	+11.3	-40.0 -5	9.2	32.2	-23.0	Perpe 100

CKC Laboratories, Inc. Date: 1/10/2012 Time: 4:09:45 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
15.209 Radiated Emissions Test Distance: 3 Meters Sequence#: 24 Parallel



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **92667** Date: 1/10/2012
 Test Type: **Maximized Emissions** Time: 4:01:28 PM
 Equipment: **Intelligent Light Sensor for Smart
Networked Energy Saving Lighting
Systems** Sequence#: 23
 Manufacturer: **Enlighted, Inc.** Tested By: A. Brar
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T2	ANP05440	Cable		3/7/2011	3/7/2013
T3	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

0.09 - 30MHz Radiated Emissions
 EUT set to Hi-Ch.
 Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.247 is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

Measurement Data:

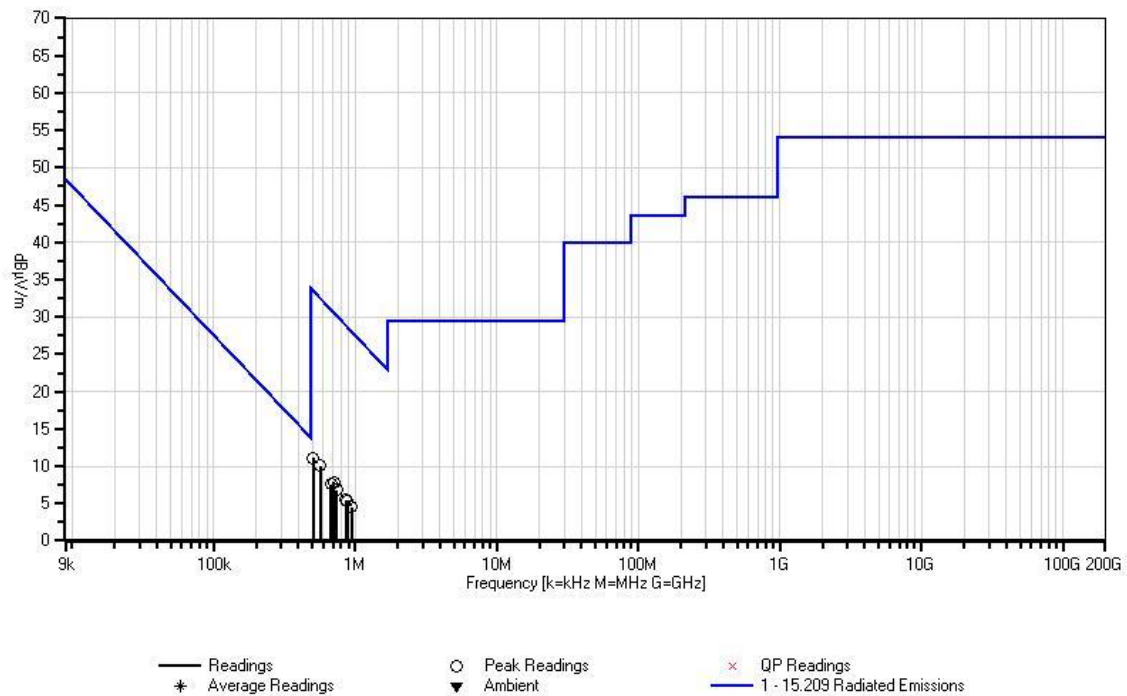
Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	507.510k	40.0	+0.0	+0.0	+11.1	-40.0	365	11.1	33.5	-22.4	Paral 100
2	570.231k	38.9	+0.0	+0.0	+11.2	-40.0	365	10.1	32.5	-22.4	Paral 100
3	706.127k	36.4	+0.0	+0.0	+11.5	-40.0	365	7.9	30.6	-22.7	Paral 100
4	879.655k	33.9	+0.0	+0.1	+11.4	-40.0	365	5.4	28.7	-23.3	Paral 100
5	875.474k	33.8	+0.0	+0.1	+11.4	-40.0	365	5.3	28.7	-23.4	Paral 100

6	739.578k	35.3	+0.0	+0.0	+11.5	-40.0 364	6.8	30.2	-23.4	Perpe 100
7	674.766k	36.1	+0.0	+0.0	+11.5	-40.0 365	7.6	31.0	-23.4	Paral 100
8	860.839k	34.0	+0.0	+0.1	+11.4	-40.0 365	5.5	28.9	-23.4	Paral 100
9	946.557k	33.1	+0.0	+0.0	+11.4	-40.0 365	4.5	28.0	-23.5	Paral 100
10	1.522M	28.1	+0.0	+0.1	+11.4	-40.0 365	-0.4	23.9	-24.3	Paral 100

CKC Laboratories, Inc. Date: 1/10/2012 Time: 4:01:28 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
15.209 Radiated Emissions Test Distance: 3 Meters Sequence#: 23 Parallel



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **92667** Date: 1/10/2012
 Test Type: **Maximized Emissions** Time: 2:07:44 PM
 Equipment: **Intelligent Light Sensor for Smart
Networked Energy Saving Lighting
Systems** Sequence#: 10
 Manufacturer: **Enlighted, Inc.** Tested By: A. Brar
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05299	Cable	RG214	3/6/2011	3/6/2013
T2	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T3	ANP05440	Cable		3/7/2011	3/7/2013
T4	AN00730	Preamp		1/31/2011	1/31/2013
T5	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

FCC15.209B 30-1000MHz Radiated Emissions.
 EUT set to Lo-Ch.
 Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.247 is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

Measurement Data:

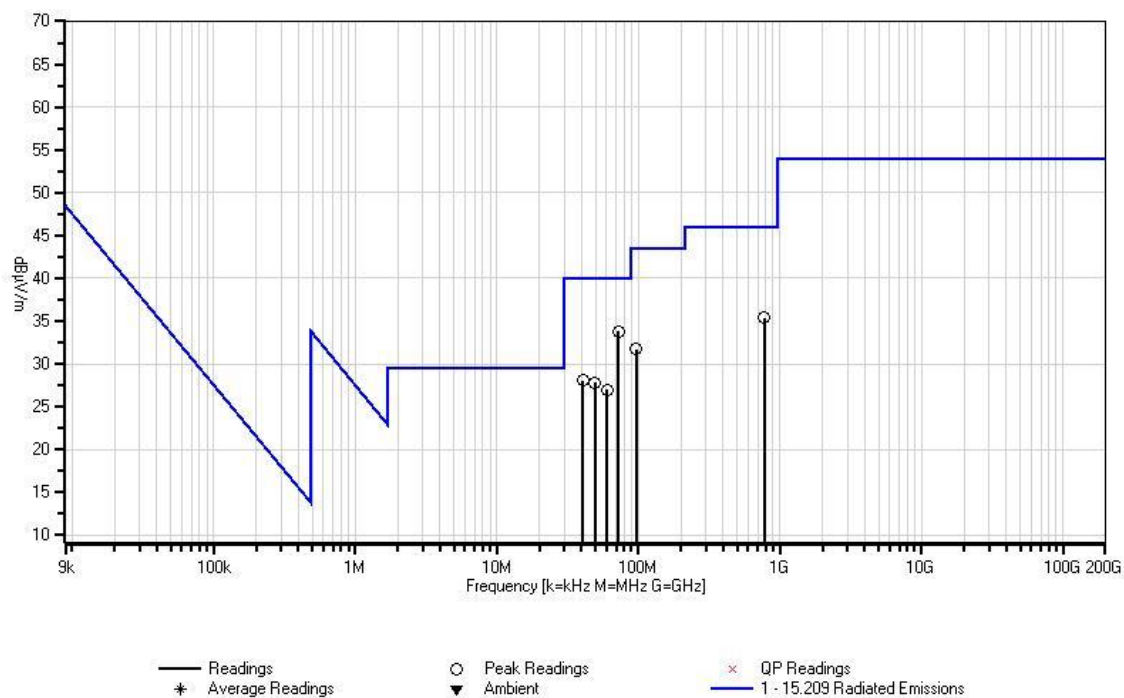
Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	72.724M	54.0	+0.0 +6.7	+0.2	+0.4	-27.5	+0.0 365	33.8	40.0	-6.2	Vert 129
2	778.230M	38.3	+0.2 +21.5	+0.9	+1.7	-27.2	+0.0 365	35.4	46.0	-10.6	Vert 129
3	96.909M	48.8	+0.0 +9.6	+0.3	+0.5	-27.5	+0.0 365	31.7	43.5	-11.8	Vert 129

4	40.914M	41.7	+0.0 +13.4	+0.2	+0.3	-27.5	+0.0 365	28.1	40.0	-11.9	Vert 129
5	49.565M	45.6	+0.0 +9.1	+0.2	+0.4	-27.5	+0.0 365	27.8	40.0	-12.2	Vert 129
6	60.546M	48.1	+0.0 +5.8	+0.2	+0.4	-27.5	+0.0 365	27.0	40.0	-13.0	Vert 129

CKC Laboratories, Inc. Date: 1/10/2012 Time: 2:07:44 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
15.209 Radiated Emissions Test Distance: 3 Meters Sequence#: 10 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **92667** Date: 1/10/2012
 Test Type: **Maximized Emissions** Time: 2:54:07 PM
 Equipment: **Intelligent Light Sensor for Smart
Networked Energy Saving Lighting
Systems** Sequence#: 13
 Manufacturer: **Enlighted, Inc.** Tested By: A. Brar
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05299	Cable	RG214	3/6/2011	3/6/2013
T2	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T3	ANP05440	Cable		3/7/2011	3/7/2013
T4	AN00730	Preamplifier		1/31/2011	1/31/2013
T5	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

30-1000MHz Radiated Emissions
 EUT set to Mid-Ch.
 Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.247 is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

Measurement Data:

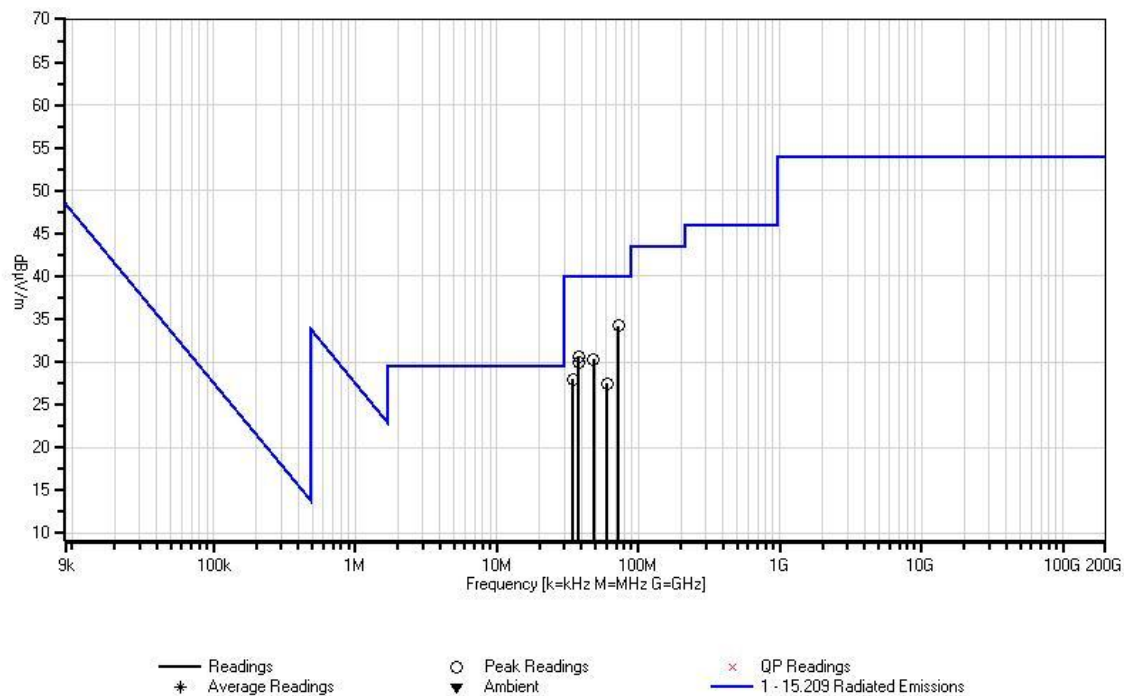
Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	72.658M	54.4	+0.0 +6.7	+0.2	+0.4	-27.5	+0.0 -5	34.2	40.0	-5.8	Vert 129
2	38.186M	42.3	+0.0 +15.4	+0.2	+0.3	-27.6	+0.0 -5	30.6	40.0	-9.4	Vert 129
3	48.434M	47.6	+0.0 +9.6	+0.2	+0.4	-27.5	+0.0 -5	30.3	40.0	-9.7	Horiz 130

4	37.919M	41.4	+0.0 +15.6	+0.2	+0.3	-27.6	+0.0 -5	29.9	40.0	-10.1	Vert 129
5	34.592M	36.9	+0.0 +18.2	+0.2	+0.3	-27.6	+0.0 -5	28.0	40.0	-12.0	Vert 129
6	60.546M	48.6	+0.0 +5.8	+0.2	+0.4	-27.5	+0.0 -5	27.5	40.0	-12.5	Vert 129

CKC Laboratories, Inc. Date: 1/10/2012 Time: 2:54:07 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
15.209 Radiated Emissions Test Distance: 3 Meters Sequence#: 13 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **92667** Date: 1/10/2012
 Test Type: **Maximized Emissions** Time: 3:20:08 PM
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 16
 Manufacturer: **Enlighted, Inc.** Tested By: A. Brar
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05299	Cable	RG214	3/6/2011	3/6/2013
T2	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T3	ANP05440	Cable		3/7/2011	3/7/2013
T4	AN00730	Preamp		1/31/2011	1/31/2013
T5	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

30-1000MHz Radiated Emissions
 EUT set to Hi-Ch.
 Temperature: 18.6°C, Relative Humidity: 32% & Atmospheric Pressure: 102.1kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.247 is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

Measurement Data:

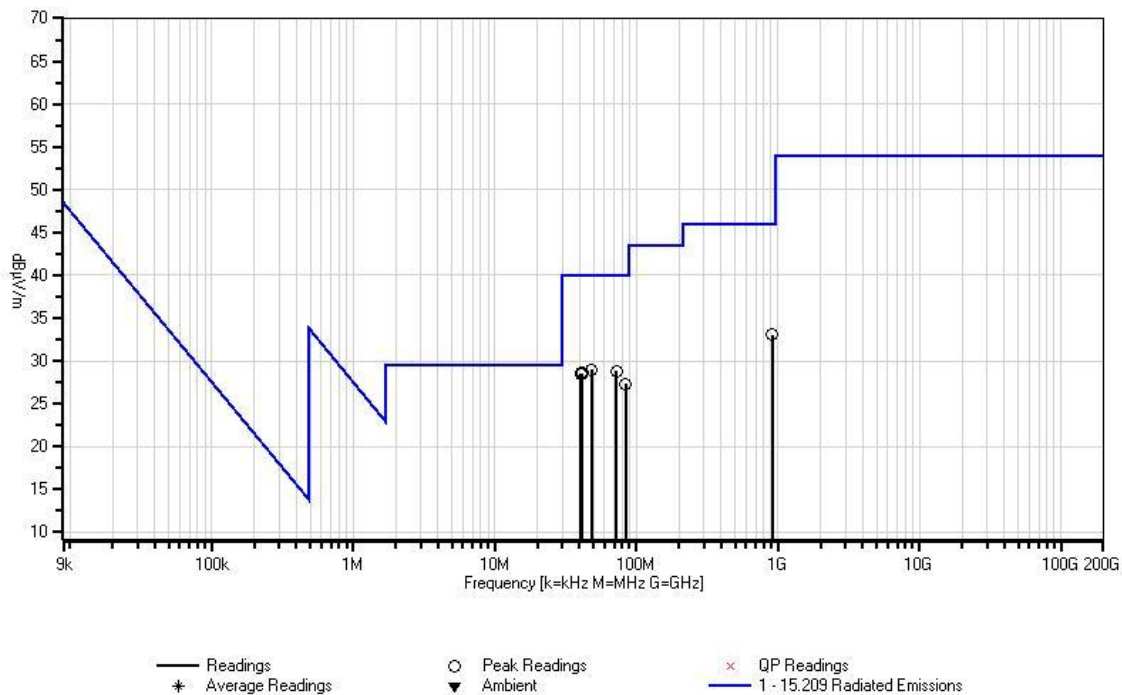
Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	48.434M	46.3	+0.0 +9.6	+0.2	+0.4	-27.5	+0.0 348	29.0	40.0	-11.0	Horiz 130
2	72.658M	49.0	+0.0 +6.7	+0.2	+0.4	-27.5	+0.0 348	28.8	40.0	-11.2	Horiz 130
3	40.847M	42.2	+0.0 +13.4	+0.2	+0.3	-27.5	+0.0 -5	28.6	40.0	-11.4	Vert 129

4	41.513M	42.6	+0.0 +13.0	+0.2	+0.3	-27.5	+0.0 -5	28.6	40.0	-11.4	Vert 129
5	40.515M	41.9	+0.0 +13.6	+0.2	+0.3	-27.5	+0.0 -5	28.5	40.0	-11.5	Vert 129
6	84.171M	45.9	+0.0 +8.2	+0.2	+0.5	-27.5	+0.0 -5	27.3	40.0	-12.7	Vert 129
7	915.167M	35.6	+0.2 +21.9	+1.0	+1.9	-27.5	+0.0 -5	33.1	46.0	-12.9	Vert 129

CKC Laboratories, Inc. Date: 1/10/2012 Time: 3:20:08 PM Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
15.209 Radiated Emissions Test Distance: 3 Meters Sequence#: 16 Vert



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/11/2012
 Test Type: **Maximized Emissions** Time: 16:29:26
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 34
 Manufacturer: **Enlighted, Inc.** Tested By: A. Brar
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05138	Cable	FSJ1P-50A-4	3/19/2010	3/19/2012
T2	ANP04241	Cable	FSJ1-50A	3/2/2010	3/2/2012
T3	AN02061	Horn Antenna-ANSI C63.5	DRG-118A	1/17/2011	1/17/2013
T4	ANP05843	Cable	32022-2-29094K-48TC	7/30/2010	7/30/2012
T5	AN02810	Preamplifier	83051A	1/7/2012	1/7/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 1-6GHz Spurious Emissions
 Low Channel.
 Temperature: 19.1°C, Relative Humidity: 35% & Atmospheric Pressure: 102kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.

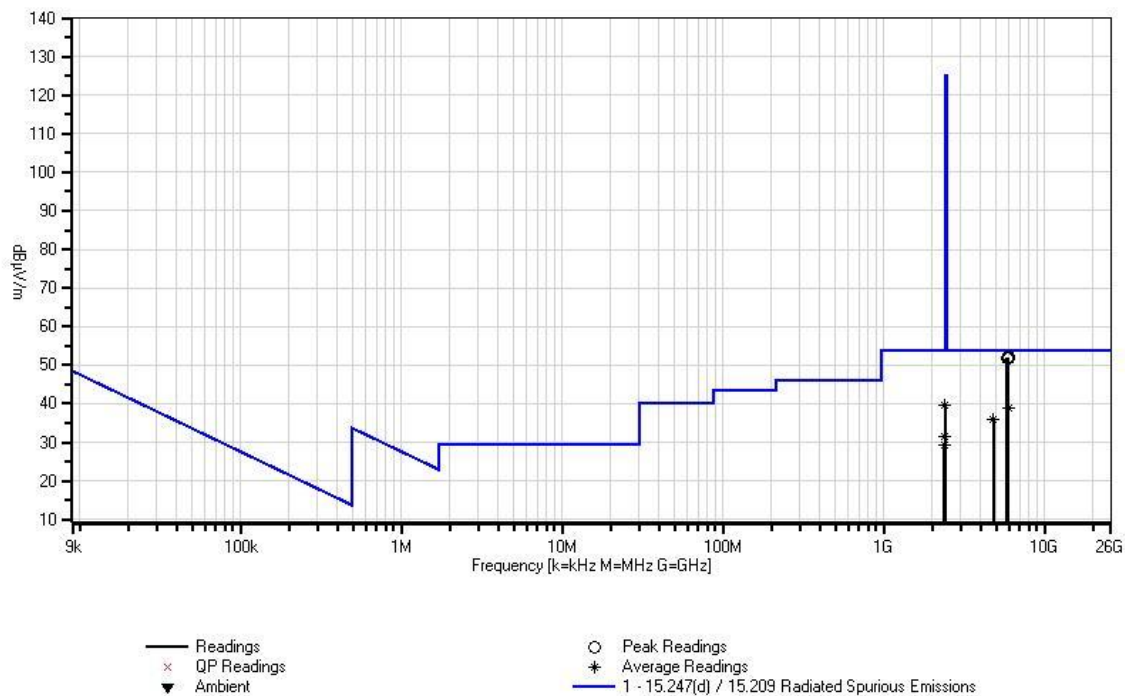
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	T5				Table	dBμV/m	dBμV/m	dB	Ant
1	5947.409M	39.0	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	52.0	54.0	-2.0	Vert 120
2	5862.621M	39.3	+3.9 -27.4	+0.9	+34.1	+1.1	+0.0 -5	51.9	54.0	-2.1	Vert 120
3	5951.703M	38.9	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	51.9	54.0	-2.1	Vert 120

4	5959.931M	38.9	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	51.9	54.0	-2.1	Vert 120
5	5927.196M	38.8	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	51.8	54.0	-2.2	Horiz 121
6	5952.060M	38.8	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	51.8	54.0	-2.2	Horiz 121
7	5955.101M	38.8	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	51.8	54.0	-2.2	Horiz 121
8	5926.838M	38.8	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	51.8	54.0	-2.2	Vert 120
9	5862.442M	39.2	+3.9 -27.4	+0.9	+34.1	+1.1	+0.0 -5	51.8	54.0	-2.2	Horiz 121
10	2399.871M Ave	35.3	+2.3 -27.0	+0.5	+27.7	+0.7	+0.0 281	39.5	54.0	-14.5	Vert 122
^	2399.871M	60.8	+2.3 -27.0	+0.5	+27.7	+0.7	+0.0 281	65.0	54.0	+11.0	Vert 122
12	5949.914M Ave	25.9	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 281	38.9	54.0	-15.1	Horiz 122
^	5949.914M	40.1	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	53.1	54.0	-0.9	Horiz 121
14	5960.468M Ave	25.9	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 281	38.9	54.0	-15.1	Vert 122
^	5960.468M	39.4	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 -5	52.4	54.0	-1.6	Vert 120
16	4809.100M Ave	25.4	+3.4 -27.9	+0.8	+33.1	+1.1	+0.0 281	35.9	54.0	-18.1	Horiz 122
^	4809.100M	52.0	+3.4 -27.9	+0.8	+33.1	+1.1	+0.0 338	62.5	54.0	+8.5	Horiz 100
18	2399.703M Ave	27.2	+2.3 -27.0	+0.5	+27.7	+0.7	+0.0 281	31.4	54.0	-22.6	Horiz 122
^	2399.703M	64.1	+2.3 -27.0	+0.5	+27.7	+0.7	+0.0 -5	68.3	54.0	+14.3	Horiz 121
20	2387.691M Ave	25.2	+2.3 -27.0	+0.5	+27.7	+0.7	+0.0 281	29.4	54.0	-24.6	Vert 122
^	2387.691M	49.6	+2.3 -27.0	+0.5	+27.7	+0.7	+0.0 -5	53.8	54.0	-0.2	Vert 120

CKC Laboratories, Inc. Date: 1/11/2012 Time: 16:29:26 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 34 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/11/2012
 Test Type: **Maximized Emissions** Time: 16:42:14
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 36
 Manufacturer: **Enlighted, Inc.** Tested By: **A. Brar**
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05138	Cable	FSJ1P-50A-4	3/19/2010	3/19/2012
T2	ANP04241	Cable	FSJ1-50A	3/2/2010	3/2/2012
T3	AN02061	Horn Antenna-ANSI C63.5	DRG-118A	1/17/2011	1/17/2013
T4	ANP05843	Cable	32022-2-29094K-48TC	7/30/2010	7/30/2012
T5	AN02810	Preamplifier	83051A	1/7/2012	1/7/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 1-6GHz Spurious Emissions
 Mid Channel.
 Temperature: 19.1°C, Relative Humidity: 35% & Atmospheric Pressure: 102kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.

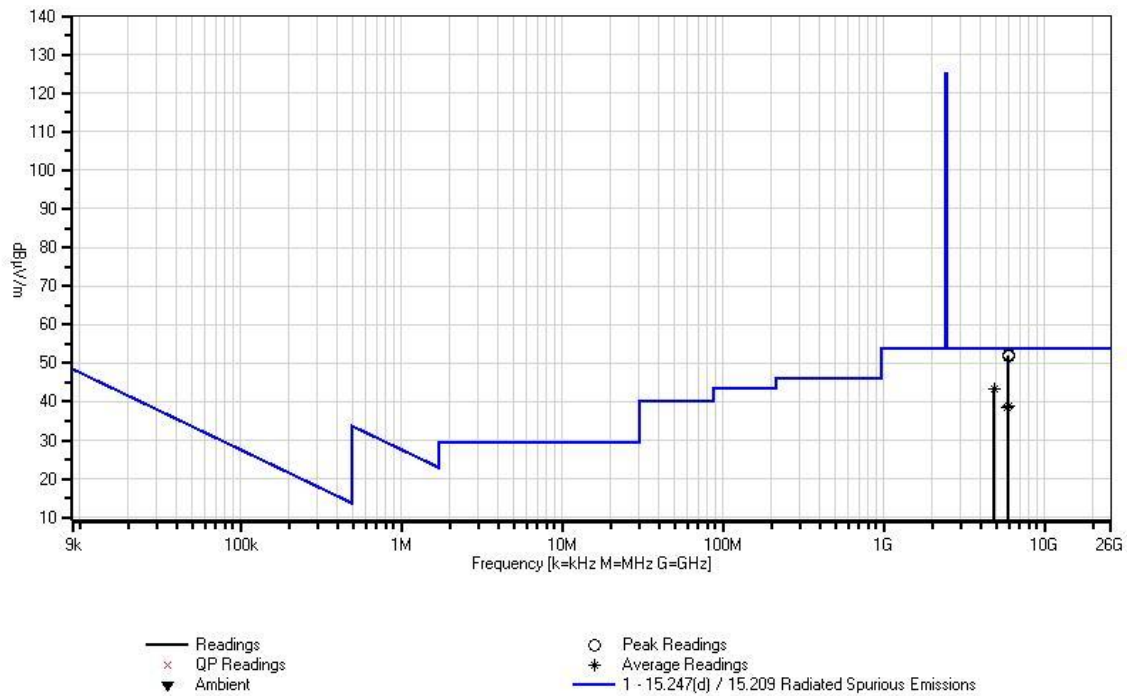
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	T5				Table	dBμV/m	dBμV/m	dB	Ant
1	5969.412M	38.9	+4.0 -27.3	+1.0	+34.3	+1.1	+0.0 365	52.0	54.0	-2.0	Horiz 122
2	5986.763M	38.9	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 365	51.9	54.0	-2.1	Horiz 122

3	5994.097M	38.9	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 365	51.9	54.0	-2.1	Horiz 122
4	5976.925M	38.9	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 365	51.9	54.0	-2.1	Horiz 122
5	5949.735M	38.9	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 365	51.9	54.0	-2.1	Horiz 122
6	5945.621M	38.8	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 365	51.8	54.0	-2.2	Horiz 122
7	4879.134M Ave	32.7	+3.5 -27.8	+0.8	+33.0	+1.1	+0.0 323	43.3	54.0	-10.7	Horiz 122
^	4879.134M	49.4	+3.5 -27.8	+0.8	+33.0	+1.1	+0.0	60.0	54.0	+6.0	Horiz 122
9	4881.085M Ave	32.6	+3.5 -27.8	+0.8	+33.0	+1.1	+0.0 323	43.2	54.0	-10.8	Horiz 122
^	4881.084M	46.8	+3.5 -27.8	+0.8	+33.0	+1.1	+0.0	57.4	54.0	+3.4	Horiz 122
11	5972.453M Ave	25.9	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 -5	38.9	54.0	-15.1	Vert 122
^	5972.453M	39.1	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 -5	52.1	54.0	-1.9	Vert 122
13	5911.991M Ave	25.8	+4.0 -27.4	+1.0	+34.2	+1.1	+0.0 323	38.7	54.0	-15.3	Horiz 122
^	5911.991M	39.4	+4.0 -27.4	+1.0	+34.2	+1.1	+0.0 365	52.3	54.0	-1.7	Horiz 122

CKC Laboratories, Inc. Date: 1/11/2012 Time: 16:42:14 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 36 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/11/2012
 Test Type: **Maximized Emissions** Time: 16:50:09
 Equipment: **Intelligent Light Sensor for Smart
Networked Energy Saving Lighting
Systems** Sequence#: 36
 Manufacturer: **Enlighted, Inc.** Tested By: **A. Brar**
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05138	Cable	FSJ1P-50A-4	3/19/2010	3/19/2012
T2	ANP04241	Cable	FSJ1-50A	3/2/2010	3/2/2012
T3	AN02061	Horn Antenna-ANSI C63.5	DRG-118A	1/17/2011	1/17/2013
T4	ANP05843	Cable	32022-2-29094K-48TC	7/30/2010	7/30/2012
T5	AN02810	Preamplifier	83051A	1/7/2012	1/7/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 1-6GHz Spurious Emissions
 Hi Channel.
 Temperature: 19.1°C, Relative Humidity: 35% & Atmospheric Pressure: 102kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.

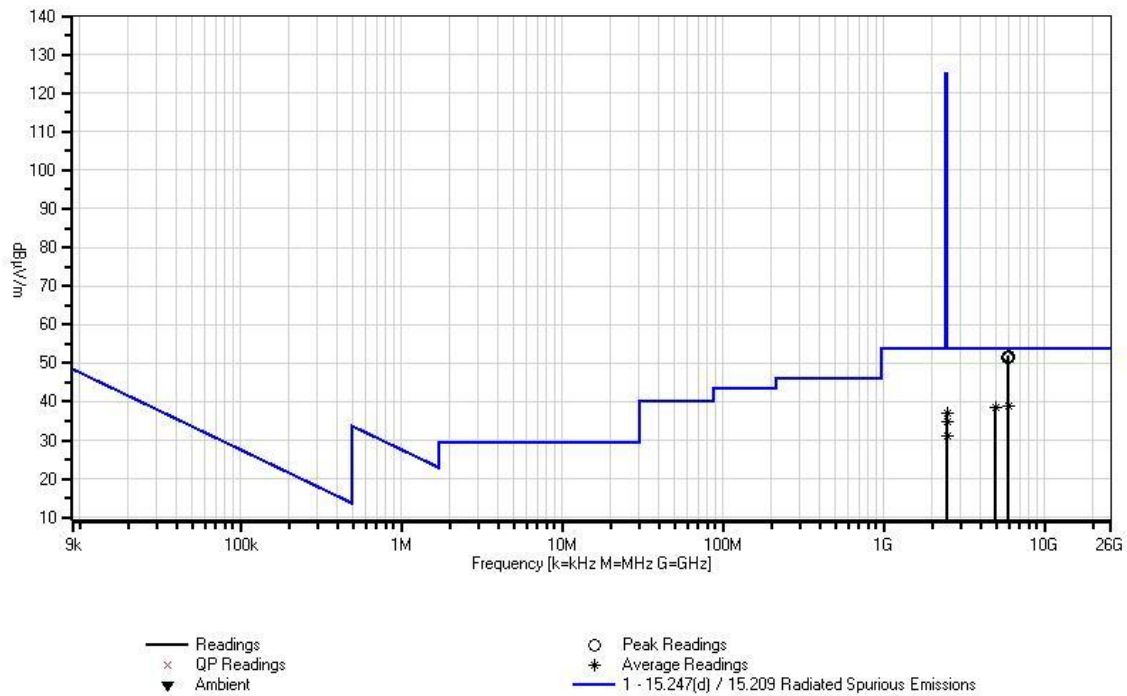
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	5938.823M	38.9	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 302	51.9	54.0	-2.1	Horiz 122
2	5988.909M	38.8	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 302	51.8	54.0	-2.2	Horiz 122
3	5967.086M	38.6	+4.0 -27.3	+1.0	+34.2	+1.1	+0.0 302	51.6	54.0	-2.4	Horiz 122

4	5891.062M	38.5	+4.0 -27.4	+1.0	+34.1	+1.1	+0.0 -4	51.3	54.0	-2.7	Vert 122
5	5908.593M	38.4	+4.0 -27.4	+1.0	+34.2	+1.1	+0.0 -4	51.3	54.0	-2.7	Vert 122
6	5981.218M Ave	25.9	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 -4	38.9	54.0	-15.1	Vert 122
^	5981.218M	39.2	+4.0 -27.3	+0.9	+34.3	+1.1	+0.0 -4	52.2	54.0	-1.8	Vert 122
8	4959.260M Ave	27.7	+3.5 -27.5	+0.8	+32.9	+1.1	+0.0 369	38.5	54.0	-15.5	Horiz 122
^	4959.260M	41.2	+3.5 -27.5	+0.8	+32.9	+1.1	+0.0 302	52.0	54.0	-2.0	Horiz 122
10	2484.788M Ave	32.8	+2.3 -27.0	+0.5	+27.9	+0.7	+0.0 369	37.2	54.0	-16.8	Horiz 122
^	2484.788M	61.2	+2.3 -27.0	+0.5	+27.9	+0.7	+0.0 302	65.6	54.0	+11.6	Horiz 122
12	2487.791M Ave	30.3	+2.4 -27.0	+0.5	+27.9	+0.7	+0.0 -4	34.8	54.0	-19.2	Vert 122
^	2487.791M	53.3	+2.4 -27.0	+0.5	+27.9	+0.7	+0.0 -4	57.8	54.0	+3.8	Vert 122
14	2483.787M Ave	26.6	+2.3 -27.0	+0.5	+27.9	+0.7	+0.0 -4	31.0	54.0	-23.0	Vert 122
^	2483.787M	52.7	+2.3 -27.0	+0.5	+27.9	+0.7	+0.0 -4	57.1	54.0	+3.1	Vert 122

CKC Laboratories, Inc. Date: 1/11/2012 Time: 16:50:09 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 36 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 10:13:55
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 45
 Manufacturer: **Enlighted, Inc.** Tested By: N. Gamez
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05138	Cable	FSJ1P-50A-4	3/19/2010	3/19/2012
T2	ANP04241	Cable	FSJ1-50A	3/2/2010	3/2/2012
T3	AN02061	Horn Antenna-ANSI C63.5	DRG-118A	1/17/2011	1/17/2013
T4	ANP05843	Cable	32022-2-29094K-48TC	7/30/2010	7/30/2012
T5	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
T6	AN01416	High Pass Filter	84300-80038	2/23/2010	2/23/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 6-12.5GHz Radiated Emissions
 Low Channel.
 Temperature: 18.7°C
 Relative Humidity: 34%
 Atmospheric Pressure: 101.9kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

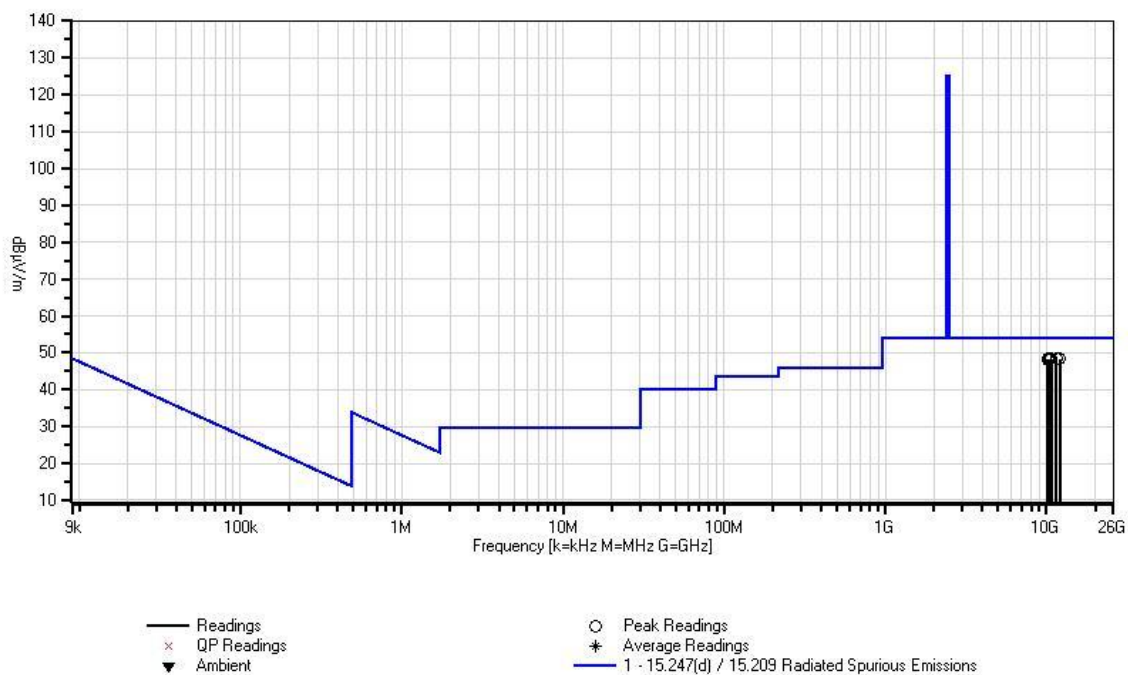
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	T5 dB	T6 dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	12086.522 M	55.1	+5.9 -56.1	+1.7 +0.1	+39.8	+1.9	+0.0	48.4	54.0	-5.6	Vert
							364				121
2	10143.139 M	57.7	+5.4 -58.4	+1.5 +1.0	+39.6	+1.5	+0.0	48.3	54.0	-5.7	Horiz
							-5				121
3	11465.460 M	55.5	+5.9 -56.4	+1.7 +0.2	+39.8	+1.6	+0.0	48.3	54.0	-5.7	Horiz
							-5				121
4	10659.655 M	57.6	+5.5 -58.5	+1.3 +0.6	+40.3	+1.5	+0.0	48.3	54.0	-5.7	Vert
							364				121
5	10375.371 M	57.7	+5.5 -58.6	+1.4 +0.9	+39.9	+1.5	+0.0	48.3	54.0	-5.7	Vert
							364				121
6	10260.256 M	57.6	+5.4 -58.6	+1.5 +1.0	+39.8	+1.5	+0.0	48.2	54.0	-5.8	Horiz
							-5				121

CKC Laboratories, Inc. Date: 1/12/2012 Time: 10:13:55 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN:
 ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 45 Vert
 Vert



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 10:30:55
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 48
 Manufacturer: **Enlighted, Inc.** Tested By: **N. Gamez**
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05138	Cable	FSJ1P-50A-4	3/19/2010	3/19/2012
T2	ANP04241	Cable	FSJ1-50A	3/2/2010	3/2/2012
T3	AN02061	Horn Antenna-ANSI C63.5	DRG-118A	1/17/2011	1/17/2013
T4	ANP05843	Cable	32022-2-29094K-48TC	7/30/2010	7/30/2012
T5	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
T6	AN01416	High Pass Filter	84300-80038	2/23/2010	2/23/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 6-12.5GHz Radiated Emissions
 Mid Channel.
 Temperature: 18.7°C
 Relative Humidity: 34%
 Atmospheric Pressure: 101.9kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

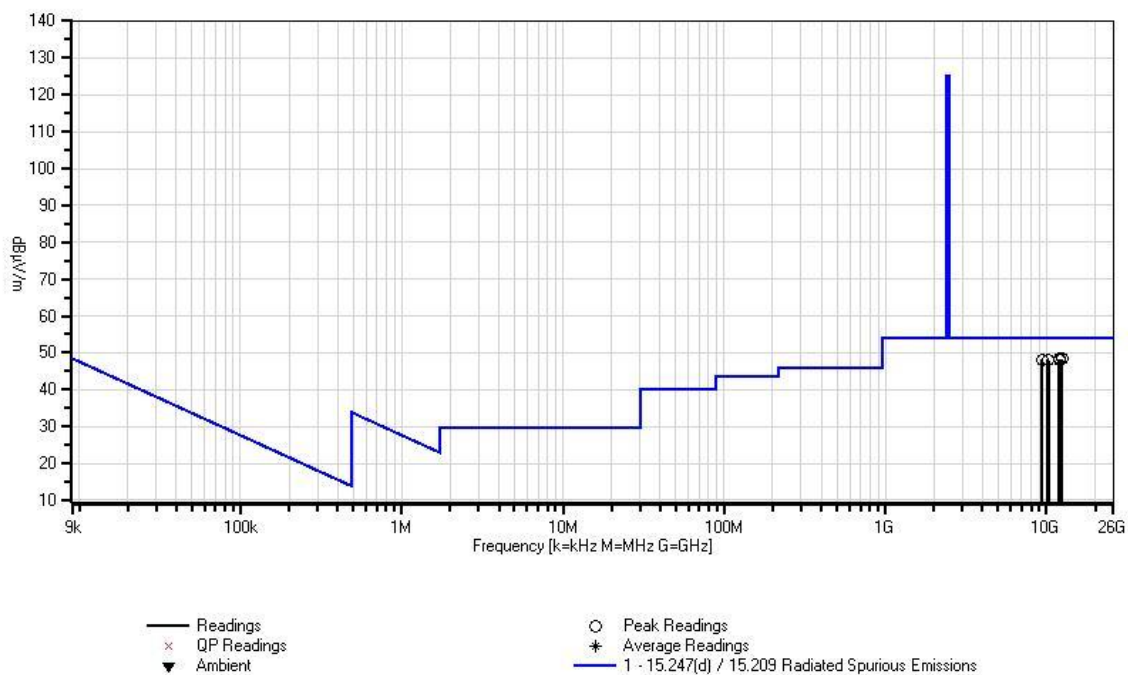
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	12433.804 M	55.7	+6.3 -57.1	+1.5 +0.0	+40.0	+2.0	+0.0 365	48.4	54.0	-5.6	Horiz 121
2	11963.958 M	54.9	+5.9 -56.1	+1.9 +0.2	+39.7	+1.8	+0.0 -5	48.3	54.0	-5.7	Vert 121
3	10191.187 M	57.6	+5.4 -58.5	+1.5 +1.0	+39.7	+1.5	+0.0 -5	48.2	54.0	-5.8	Vert 121
4	9353.350M	58.2	+5.2 -57.3	+1.2 +0.6	+38.7	+1.5	+0.0 -5	48.1	54.0	-5.9	Vert 121
5	11959.954 M	54.7	+5.9 -56.2	+1.9 +0.2	+39.7	+1.8	+0.0 365	48.0	54.0	-6.0	Horiz 121
6	10257.253 M	57.4	+5.4 -58.6	+1.5 +1.0	+39.8	+1.5	+0.0 365	48.0	54.0	-6.0	Horiz 121

CKC Laboratories, Inc. Date: 1/12/2012 Time: 10:30:55 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 48 Horiz
 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 10:45:51
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 51
 Manufacturer: **Enlighted, Inc.** Tested By: N. Gamez
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP05138	Cable	FSJ1P-50A-4	3/19/2010	3/19/2012
T2	ANP04241	Cable	FSJ1-50A	3/2/2010	3/2/2012
T3	AN02061	Horn Antenna-ANSI C63.5	DRG-118A	1/17/2011	1/17/2013
T4	ANP05843	Cable	32022-2-29094K-48TC	7/30/2010	7/30/2012
T5	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
T6	AN01416	High Pass Filter	84300-80038	2/23/2010	2/23/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 6-12.5GHz Radiated Emissions
 High Channel.
 Temperature: 18.7°C
 Relative Humidity: 34%
 Atmospheric Pressure: 101.9kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

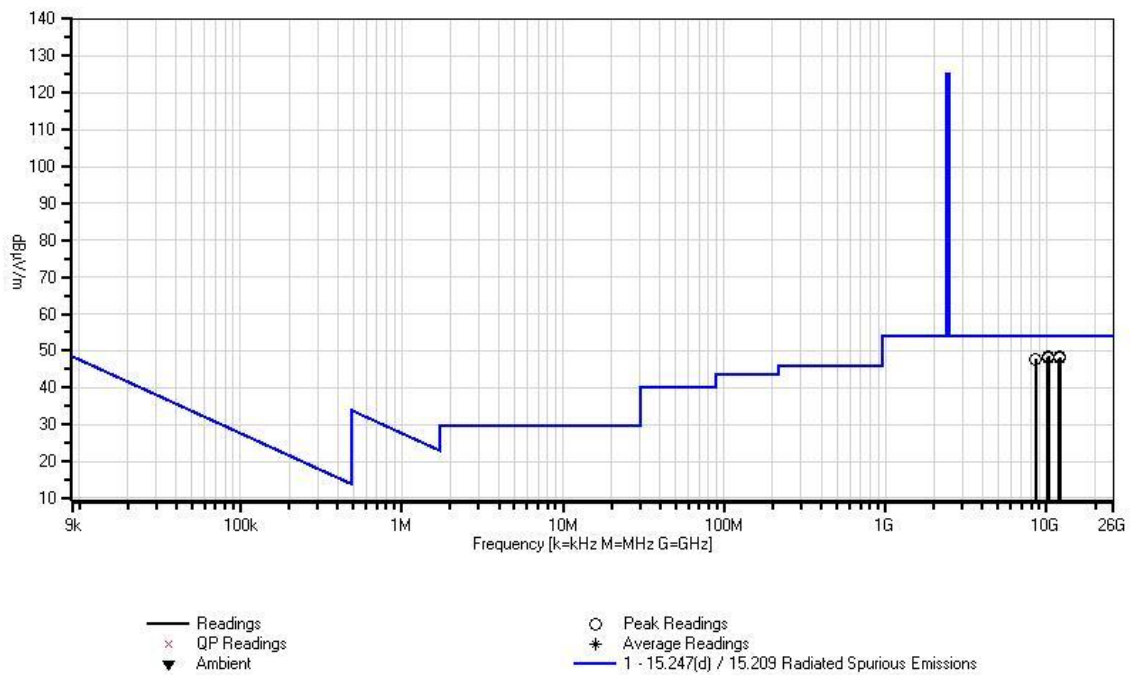
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	10271.267 M	57.9	+5.4 -58.6	+1.5 +1.0	+39.8	+1.5	+0.0 364	48.5	54.0	-5.5	Vert 121
2	10264.260 M	57.8	+5.4 -58.6	+1.5 +1.0	+39.8	+1.5	+0.0 -5	48.4	54.0	-5.6	Horiz 121
3	12026.748 M	54.9	+5.9 -55.9	+1.8 +0.1	+39.7	+1.8	+0.0 -5	48.3	54.0	-5.7	Horiz 121
4	10145.141 M	57.5	+5.4 -58.4	+1.5 +1.0	+39.6	+1.5	+0.0 364	48.1	54.0	-5.9	Vert 121
5	11950.945 M	54.7	+5.9 -56.2	+1.9 +0.2	+39.7	+1.8	+0.0 -5	48.0	54.0	-6.0	Horiz 121
6	8522.520M	57.7	+4.8 -56.4	+1.2 +0.0	+39.1	+1.4	+0.0 364	47.8	54.0	-6.2	Vert 121

CKC Laboratories, Inc. Date: 1/12/2012 Time: 10:45:51 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 51 Vert
 Vert



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 11:50:14
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 54
 Manufacturer: **Enlighted, Inc.** Tested By: N. Gamez
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	AN02693	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-12001800-20-10P	11/23/2010	11/23/2012
T2	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T3	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
T4	ANP00928	Cable	various	3/29/2010	3/29/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 12.5-18GHz Radiated Emissions
 Low Channel.
 Temperature: 18.7°C
 Relative Humidity: 34%
 Atmospheric Pressure: 101.9kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

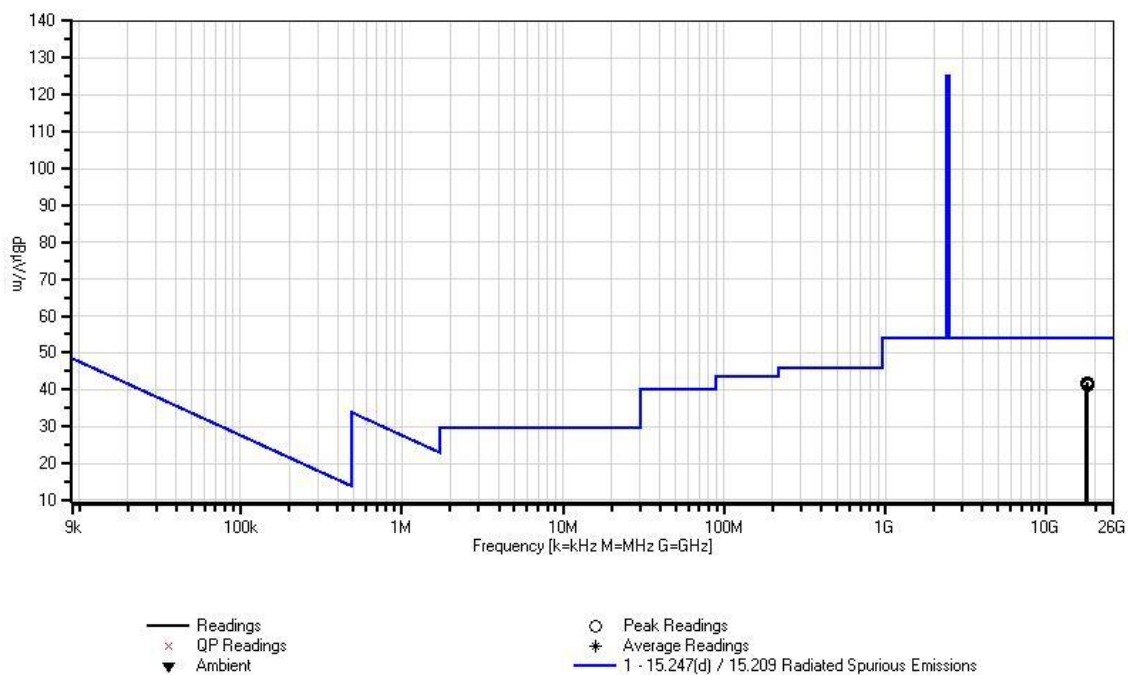
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	17898.525 M	42.2	-11.9	+6.2	+4.7	+0.7	+0.0	41.9	54.0	-12.1	Vert
							368				100
2	17842.095 M	42.2	-12.0	+6.2	+4.7	+0.7	+0.0	41.8	54.0	-12.2	Horiz
							364				100
3	17987.130 M	41.6	-11.7	+6.2	+4.7	+0.7	+0.0	41.5	54.0	-12.5	Vert
							368				100
4	17996.535 M	41.5	-11.7	+6.2	+4.7	+0.7	+0.0	41.4	54.0	-12.6	Horiz
							364				100
5	17624.790 M	42.2	-12.4	+6.2	+4.7	+0.6	+0.0	41.3	54.0	-12.7	Horiz
							364				100
6	17972.775 M	41.3	-11.7	+6.2	+4.7	+0.7	+0.0	41.2	54.0	-12.8	Vert
							368				100

CKC Laboratories, Inc. Date: 1/12/2012 Time: 11:50:14 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 54 Vert
 Vert



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 13:01:28
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 57
 Manufacturer: **Enlighted, Inc.** Tested By: N. Gamez
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	AN02693	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-12001800-20-10P	11/23/2010	11/23/2012
T2	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T3	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
T4	ANP00928	Cable	various	3/29/2010	3/29/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 12.5-18GHz Radiated Emissions Mid Channel. Temperature: 18.7°C Relative Humidity: 34% Atmospheric Pressure: 101.9kPa. EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. EUT is setup in typical mounting configuration. FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.
--

Ext Attn: 0 dB

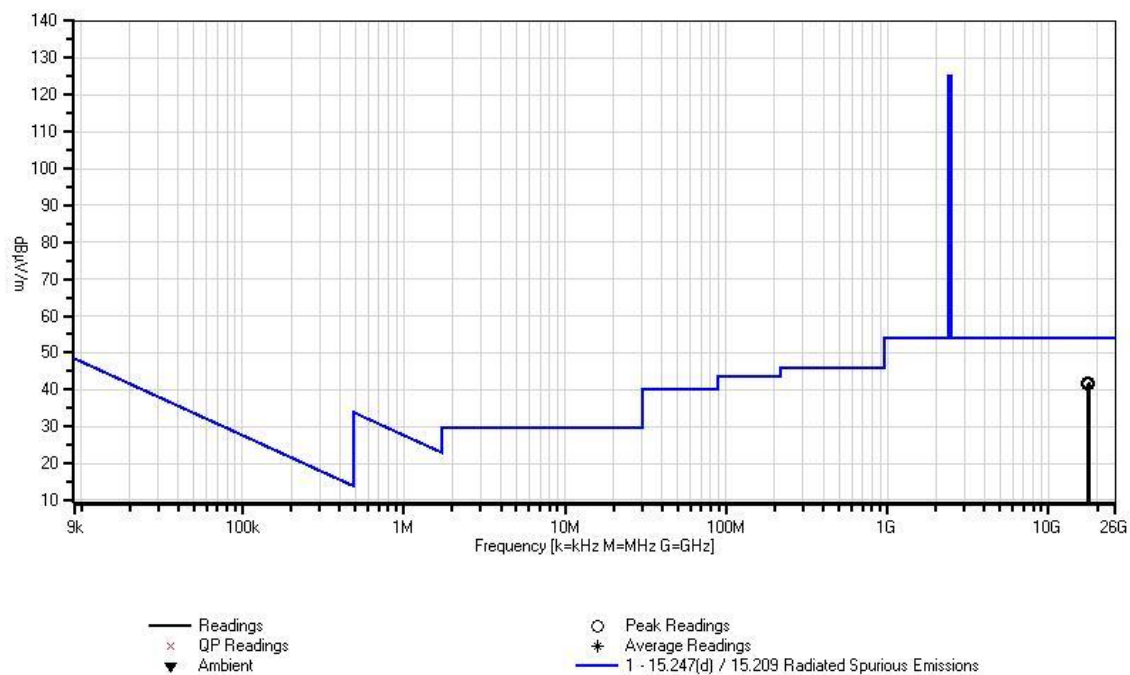
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	17804.475 M	42.4	-12.0	+6.2	+4.7	+0.6	+0.0	41.9	54.0	-12.1	Horiz
							365				100
2	17327.823 M	44.5	-14.0	+6.0	+4.7	+0.6	+0.0	41.8	54.0	-12.2	Vert
							364				100
3	17747.550 M	42.2	-12.1	+6.2	+4.7	+0.7	+0.0	41.7	54.0	-12.3	Vert
							364				100
4	17344.840 M	44.2	-13.9	+6.0	+4.7	+0.6	+0.0	41.6	54.0	-12.4	Vert
							364				100
5	17849.520 M	41.9	-11.9	+6.2	+4.7	+0.7	+0.0	41.6	54.0	-12.4	Horiz
							365				100
6	17438.934 M	43.0	-13.2	+6.1	+4.7	+0.7	+0.0	41.3	54.0	-12.7	Horiz
							365				100

CKC Laboratories, Inc. Date: 1/12/2012 Time: 13:01:28 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 57 Horiz
 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 13:14:42
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 60
 Manufacturer: **Enlighted, Inc.** Tested By: **N. Gamez**
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	AN02693	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-12001800-20-10P	11/23/2010	11/23/2012
T2	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T3	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
T4	ANP00928	Cable	various	3/29/2010	3/29/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	Not Listed on the Adaptor	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 12.5-18GHz Radiated Emissions Hi Channel. Temperature: 18.7°C Relative Humidity: 34% Atmospheric Pressure: 101.9kPa. EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. EUT is setup in typical mounting configuration. FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

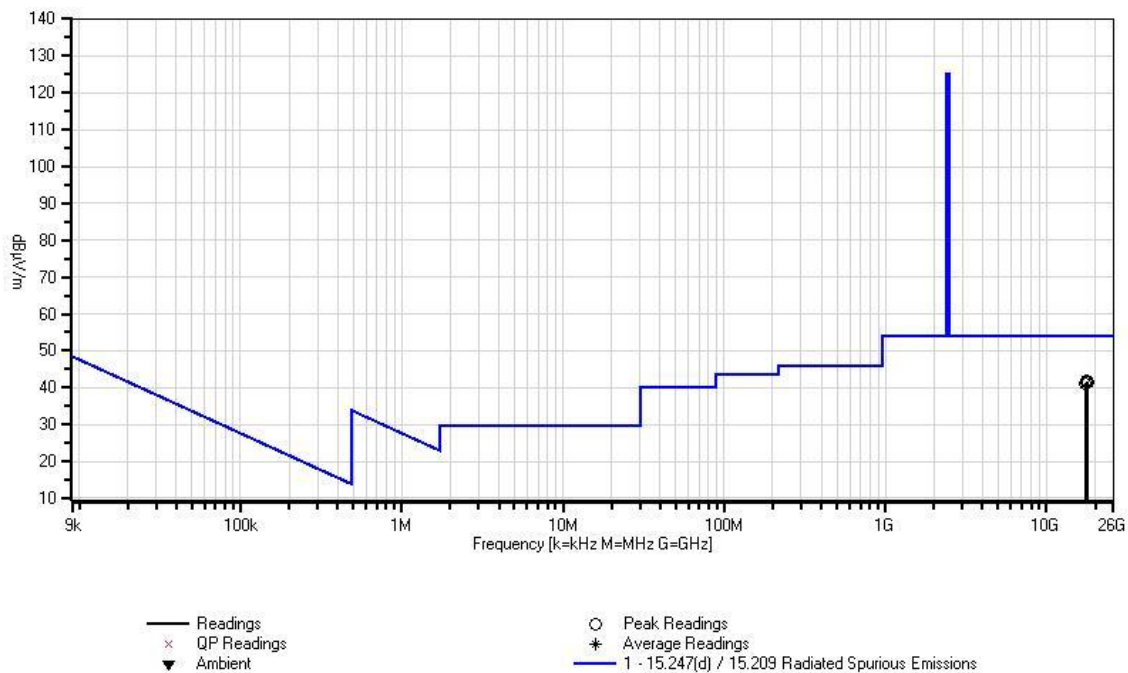
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	17834.670 M	42.2	-12.0	+6.2	+4.7	+0.7	+0.0	41.8	54.0	-12.2	Horiz
							364				100
2	17956.440 M	41.8	-11.8	+6.2	+4.7	+0.7	+0.0	41.6	54.0	-12.4	Vert
							364				100
3	17966.835 M	41.7	-11.8	+6.2	+4.7	+0.7	+0.0	41.5	54.0	-12.5	Horiz
							364				100
4	17992.575 M	41.6	-11.7	+6.2	+4.7	+0.7	+0.0	41.5	54.0	-12.5	Vert
							364				100
5	17843.085 M	41.9	-12.0	+6.2	+4.7	+0.7	+0.0	41.5	54.0	-12.5	Vert
							364				100
6	17397.893 M	43.3	-13.5	+6.1	+4.7	+0.6	+0.0	41.2	54.0	-12.8	Horiz
							364				100

CKC Laboratories, Inc. Date: 1/12/2012 Time: 13:14:42 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 60 Vert
 Vert



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 15:08:07
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 63
 Manufacturer: **Enlighted, Inc.** Tested By: **N. Gamez**
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T2	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
T3	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
T4	ANP00929	Cable	various	3/29/2010	3/29/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 18-25GHz Radiated Emissions
 Low Channel.
 Temperature: 20.2°C
 Relative Humidity: 32%
 Atmospheric Pressure: 101.7kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

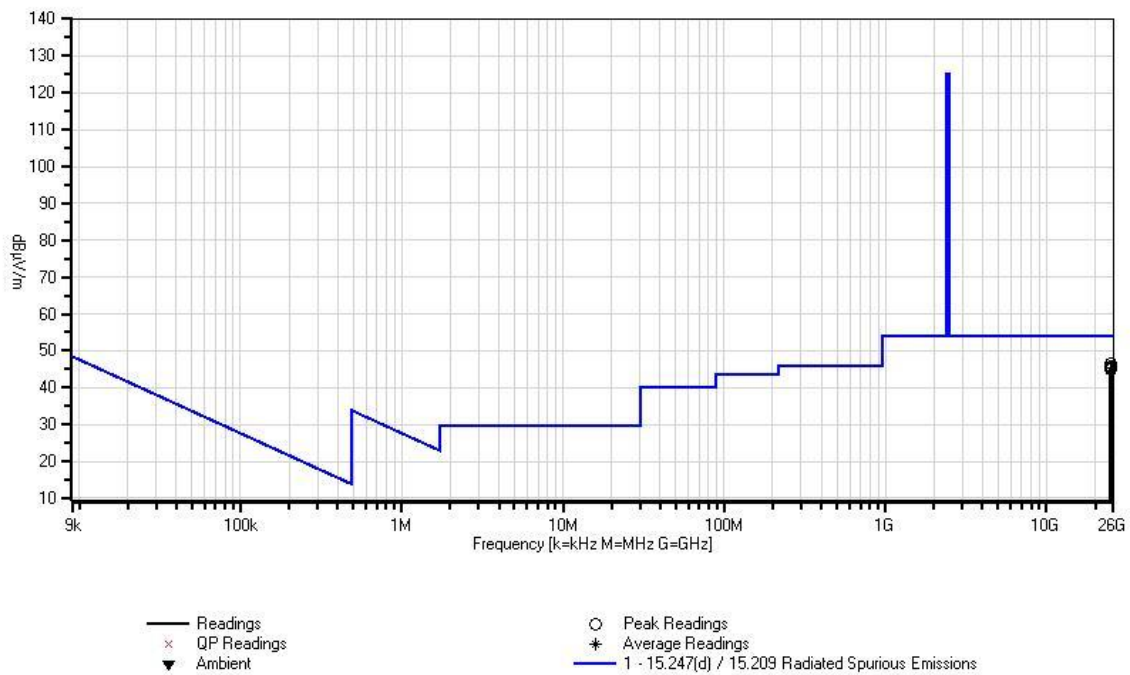
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24975.150 M	47.1	+7.4	+5.6	-16.5	+3.0	+0.0	46.6	54.0	-7.4	Vert
							-5				110
2	24968.192 M	47.1	+7.4	+5.6	-16.6	+3.0	+0.0	46.5	54.0	-7.5	Horiz
							365				110
3	24917.498 M	46.3	+7.4	+5.6	-16.6	+3.0	+0.0	45.7	54.0	-8.3	Horiz
							365				110
4	24950.300 M	46.3	+7.4	+5.6	-16.6	+3.0	+0.0	45.7	54.0	-8.3	Horiz
							365				110
5	24869.786 M	46.0	+7.4	+5.6	-16.7	+3.0	+0.0	45.3	54.0	-8.7	Vert
							-5				110
6	24816.110 M	45.5	+7.4	+5.6	-16.8	+3.1	+0.0	44.8	54.0	-9.2	Vert
							-5				110

CKC Laboratories, Inc. Date: 1/12/2012 Time: 15:08:07 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 63 Vert
 Vert



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 15:26:06
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 66
 Manufacturer: **Enlighted, Inc.** Tested By: **N. Gamez**
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T2	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
T3	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
T4	ANP00929	Cable	various	3/29/2010	3/29/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	Not Listed on the Adaptor	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 18-25GHz Radiated Emissions Mid Channel. Temperature: 20.2°C Relative Humidity: 32% Atmospheric Pressure: 101.7kPa. EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. EUT is setup in typical mounting configuration. FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.
--

Ext Attn: 0 dB

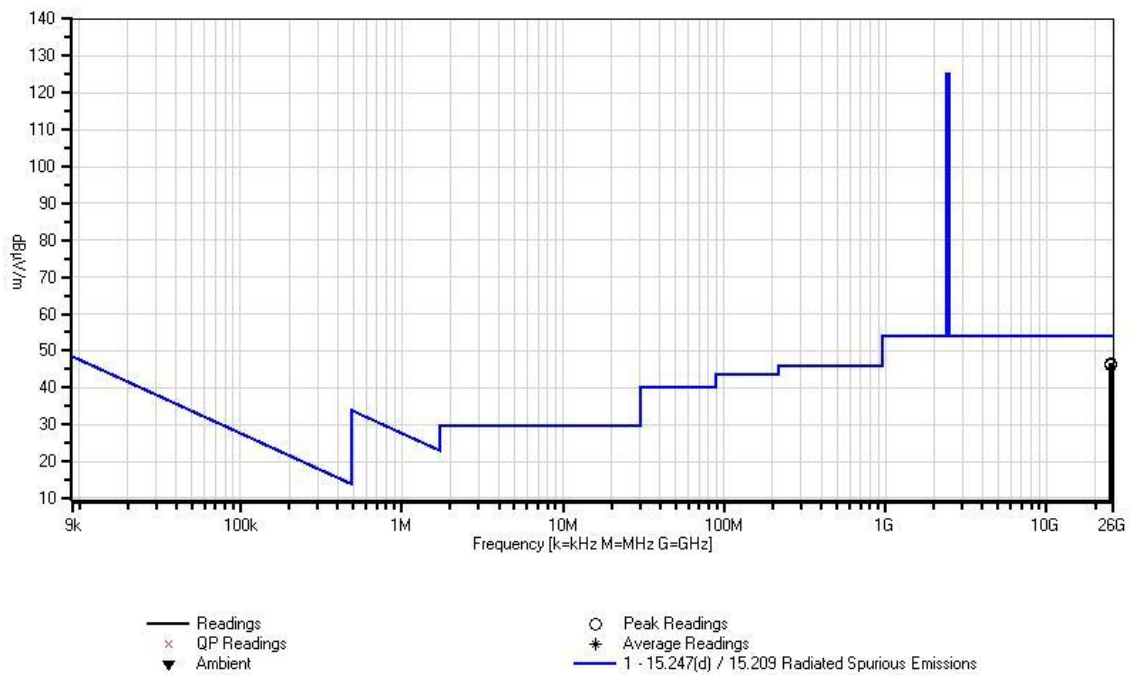
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24994.036 M	47.1	+7.4	+5.6	-16.5	+3.0	+0.0	46.6	54.0	-7.4	Horiz
							365				110
2	24988.072 M	47.1	+7.4	+5.6	-16.5	+3.0	+0.0	46.6	54.0	-7.4	Vert
							-5				110
3	24914.516 M	47.3	+7.4	+5.6	-16.7	+3.0	+0.0	46.6	54.0	-7.4	Vert
							-5				110
4	24969.186 M	46.9	+7.4	+5.6	-16.6	+3.0	+0.0	46.3	54.0	-7.7	Vert
							-5				110
5	24921.474 M	46.7	+7.4	+5.6	-16.6	+3.0	+0.0	46.1	54.0	-7.9	Horiz
							365				110
6	24930.420 M	46.6	+7.4	+5.6	-16.6	+3.0	+0.0	46.0	54.0	-8.0	Horiz
							365				110

CKC Laboratories, Inc. Date: 1/12/2012 Time: 15:26:06 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 66 Horiz
 Horiz



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Enlighted, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **92667** Date: 1/12/2012
 Test Type: **Maximized Emissions** Time: 15:38:57
 Equipment: **Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems** Sequence#: 69
 Manufacturer: **Enlighted, Inc.** Tested By: **N. Gamez**
 Model: **SU-2-00**
 S/N: **ASI48295 Rev C**

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T2	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
T3	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
T4	ANP00929	Cable	various	3/29/2010	3/29/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Intelligent Light Sensor for Smart Networked Energy Saving Lighting Systems*	Enlighted, Inc.	SU-2-00	ASI48295 Rev C

Support Devices:

Function	Manufacturer	Model #	S/N
AC Adaptor	None	AD35-0900300DU	2302AA
Laptop	Acer	Aspire 5750 Series	LXR9702166123024B71601
AC Adapter	Delta Electronics, Inc.	ADP-65VH B	679W1480GFA

Test Conditions / Notes:

15.209 18-25GHz Radiated Emissions
 Hi Channel.
 Temperature: 20.2°C
 Relative Humidity: 32%
 Atmospheric Pressure: 101.7kPa.
 EUT is in continuous transmit mode.
 The EUT has 16 channels, 1 through 15.
 EUT is setup in typical mounting configuration.
 FCC15.209c is covered by this data sheet, ensuring the spurious emissions are not higher than fundamental.

Ext Attn: 0 dB

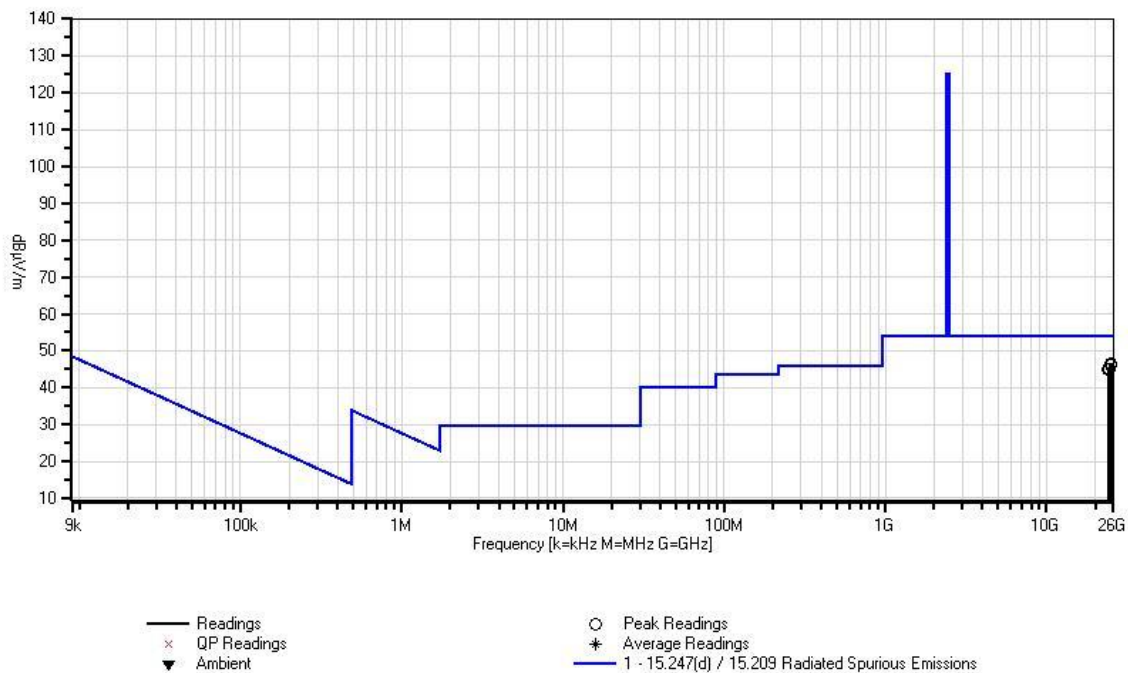
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24998.012 M	47.0	+7.4	+5.6	-16.5	+3.0	+0.0	46.5	54.0	-7.5	Vert
							365				110
2	24959.246 M	46.8	+7.4	+5.6	-16.6	+3.0	+0.0	46.2	54.0	-7.8	Horiz
							-5				110
3	24924.456 M	46.7	+7.4	+5.6	-16.6	+3.0	+0.0	46.1	54.0	-7.9	Vert
							365				110
4	24893.642 M	46.8	+7.4	+5.6	-16.7	+3.0	+0.0	46.1	54.0	-7.9	Vert
							365				110
5	24289.290 M	46.5	+7.3	+5.5	-17.4	+3.0	+0.0	44.9	54.0	-9.1	Horiz
							-5				110
6	24124.286 M	46.6	+7.2	+5.5	-17.5	+3.0	+0.0	44.8	54.0	-9.2	Horiz
							-5				110

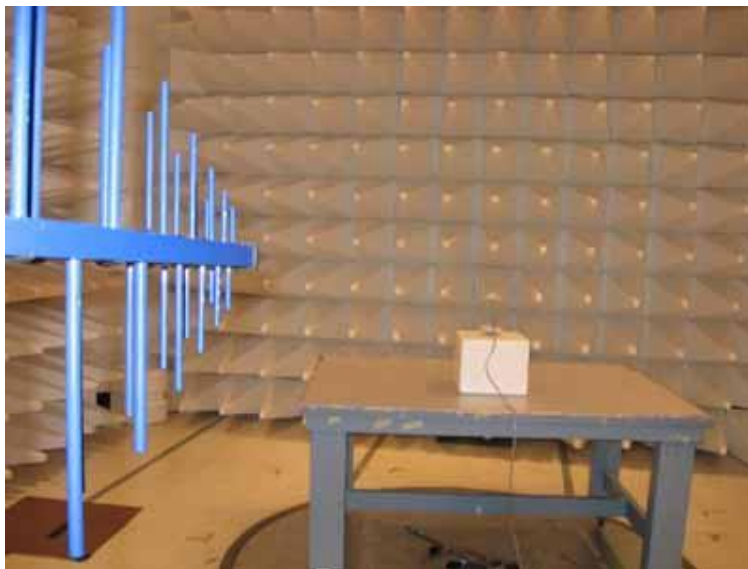
CKC Laboratories, Inc. Date: 1/12/2012 Time: 15:38:57 Enlighted, Inc. WO#: 92667 Model: SU-2-00 SN: ASI48295 Rev C
 15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 69 Vert
 Vert



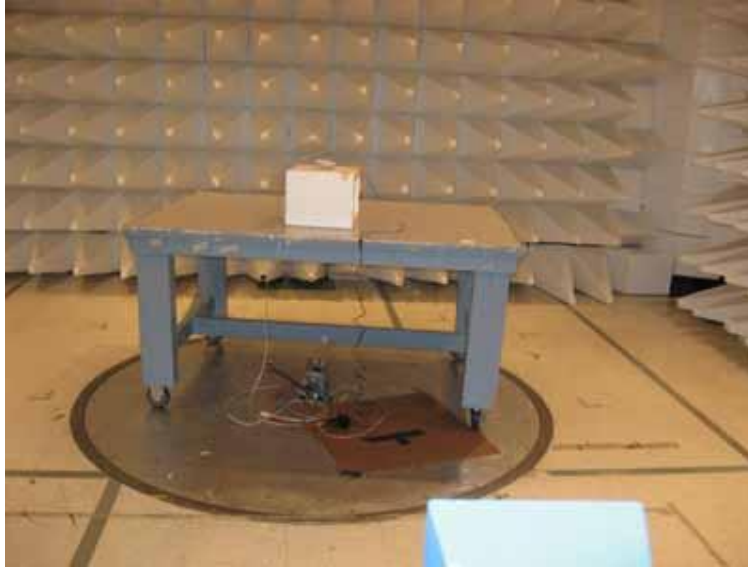
Test Setup Photos



0.09-30MHz



30-1000MHz



1-25GHz

15.247(e) Power Spectral Density

Test Conditions / Setup

The EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. The EUT is setup in typical mounting configuration.

RBW/VBW 3/9.1kHz

Temperature: 19.1°C

Relative Humidity: 35%

Atmospheric Pressure: 102kPa.

Engineer Name: A. Brar

Test Equipment					
Asset/Serial #	Description	Model	Manufacturer	Cal Date	Cal Due
AN02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
ANP05138	Cable	FSJ1P-50A-4	Andrews	3/19/2010	3/19/2012
ANP04241	Cable	FSJ1-50A	Andrews	3/2/2010	3/2/2012
AN02061	Horn Antenna-ANSI C63.5	DRG-118A	ARA	1/17/2011	1/17/2013

Test Data

Test Results			
Frequency (MHz)	Measured Power in dBm	Power Limit in dBm	Pass/Fail
2404.50 Low Channel	1.17	8	Pass
2439.58 Middle Channel	-2.029	8	Pass
2479.66 High Channel	-3.429	8	Pass

Test Setup Photos



RSS-210

99 % Bandwidth

Test Conditions / Setup

The EUT is in continuous transmit mode. The EUT has 16 channels, 1 through 15. The EUT is setup in typical mounting configuration.

Temperature: 19.1°C

Relative Humidity: 35%

Atmospheric Pressure: 102kPa.

Engineer Name: A. Brar

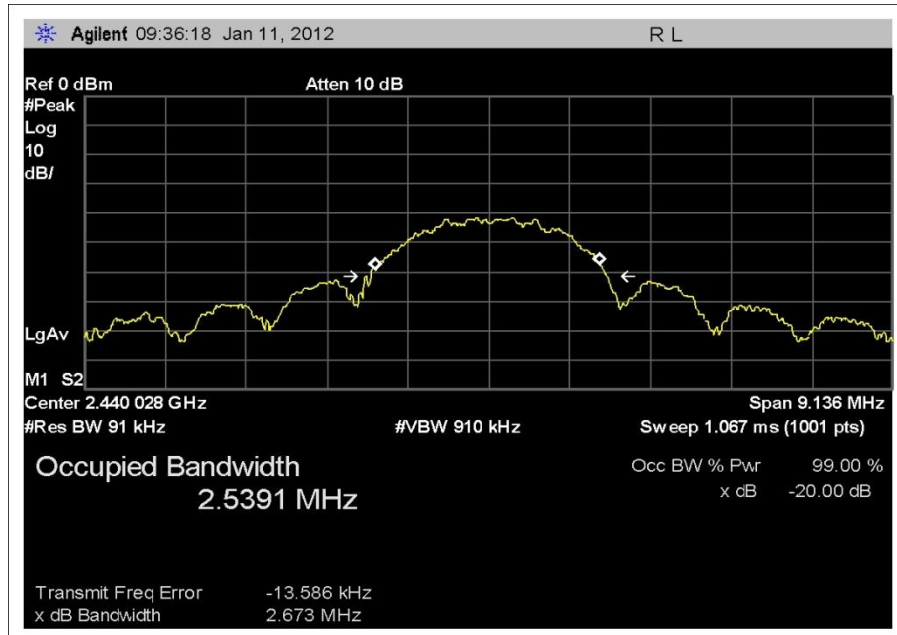
Test Equipment

Asset/Serial #	Description	Model	Manufacturer	Cal Date	Cal Due
AN02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
ANP05138	Cable	FSJ1P-50A-4	Andrews	3/19/2010	3/19/2012
ANP04241	Cable	FSJ1-50A	Andrews	3/2/2010	3/2/2012
AN02061	Horn Antenna-ANSI C63.5	DRG-118A	ARA	1/17/2011	1/17/2013

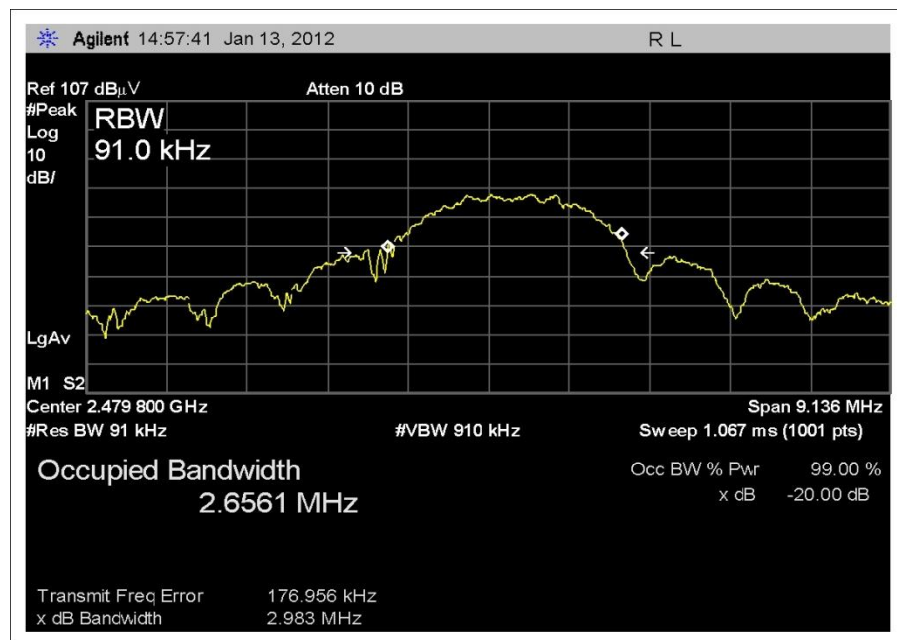
Test Data



Low Channel



Mid Channel



High Channel

Test Setup Photos



SUPPLEMENTAL INFORMATION

Measurement Uncertainty

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

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k=2$. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

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

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

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

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula. This reading was then compared to the applicable specification limit.

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

TEST INSTRUMENTATION AND ANALYZER SETTINGS

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

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

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

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

Peak

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

Quasi-Peak

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

Average

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