Enlighted, Inc.

ADDENDUM TO TEST REPORT 95673-6

Sensor Model: RS-2b/SU-2b

Tested To The Following Standards:

FCC Part 15 Subpart C Section(s): 15.207 and 15.247

Report No.: 95673-6A

Date of issue: June 26, 2014



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

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

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TABLE OF CONTENTS

Administrative Information	3
Test Report Information	3
Revision History	3
Report Authorization	3
Test Facility Information	4
Software Versions	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
15.31(e) Voltage Variations	29
15.247(a)(2) Occupied Bandwidth	32
15.247(b)(3) RF Power Output	36
15.247(d) Field Strength of Spurious Emissions and Band Edge	43
15. 247(e) Power Spectral Density	83
Supplemental Information	90
Measurement Uncertainty	90
Emissions Test Details	90



ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR: REPORT PREPARED BY:

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Sunnyvale, CA 94085 5046 Sierra Pines Drive
Mariposa, CA 95338

REPRESENTATIVE: Heber Alfaro Project Number: 95673

Customer Reference Number: PO0001006

DATE OF EQUIPMENT RECEIPT: May 9, 2014 **DATE(S) OF TESTING:** May 9-12, 2014

Revision History

Original: Testing of Sensor, RS-2b/SU-2b to FCC Part 15.207 and 15.247. Addendum A: Section 15.31e statements were revised.

Report Authorization

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

Steve Behm

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

Page 3 of 91 Report No.: 95673-6A



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

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.00.14
Immunity	5.00.07

Site Registration & Accreditation Information

Location	CB #	TAIWAN	CANADA	FCC	JAPAN	
Fremont	US0082	SL2-IN-E-1148R	3082B-1	958979	A-0149	

Page 4 of 91 Report No.: 95673-6A



SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C

Test Procedure/Method	Description	Results
15.207 / ANSI C63.4	Conducted Emissions	Pass
15.31(e)	Voltage Variation	Pass
15.247(a)(2) / DA 00-705	Occupied Bandwidth	Pass
15.247(b)(3)/ DA 00-705	RF Power Output	Pass
15.247(d) / DA 00-705	Field Strength of Spurious Emissions and Band Edge	Pass
15.247(e) / DA 00-705	Power Spectral Density	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	

Page 5 of 91 Report No.: 95673-6A



EQUIPMENT UNDER TEST (EUT)

Laptop

EQUIPMENT UNDER TEST

<u>Sensor</u>

Manuf: Enlighted, Inc. Model: RS-2b/SU-2b Serial: ENG 1

PERIPHERAL DEVICES

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

Power Adapter of Laptop

Manuf: DELL Manuf: DELL

 Model:
 DA65NM111-00
 Model:
 Latitude E5530

 Serial:
 CN-01XRN1-48661-39B-CMUG-A01
 Serial:
 18734426425

DC Power Supply

Manuf: Protek Model: 3006B Serial: AG4070

> Page 6 of 91 Report No.: 95673-6A



FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) CFR 47 Section 15 Subpart C requirements for Intentional Radiators.

15.207 AC Conducted Emissions

Test Data

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 #: 95673 Date: 5/9/2014
Test Type: Conducted Emissions Time: 10:42:53 AM

Equipment: Sensor Sequence#: 1

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b 120V 60Hz

S/N: ENG 1

Test Equipment:

II	D	Asset #	Description	Model	Calibration Date	Cal Due Date
T	1	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
T	2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T	3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
Т	4	AN00493	50uH LISN-L1 (L) Loss W/O European	3816/NM	3/4/2013	3/4/2015
			Adapter Adapter			
		AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
		AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
Т	5	ANP05258	High Pass Filter	HE9615-150K- 50-720B	12/6/2012	12/6/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 7 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Conducted Emission

Frequency Range: 150kHz to 30MHz Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits next to it. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "Putty", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmit.

Ext Attn: 0 dB

Measur	ement Data:	: Reading listed by margin.					Test Lead: Black				
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V$	$dB\mu V$	dB	Ant
1	4.573M	32.5	+9.7 +0.2	+0.2	+0.1	+0.1	+0.0	42.8	46.0	-3.2	Black
2	10.779M	36.5	+9.7 +0.0	+0.3	+0.1	+0.2	+0.0	46.8	50.0	-3.2	Black
3	4.105M	32.5	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	42.6	46.0	-3.4	Black
4	24.203M	35.5	+9.6 +0.2	+0.4	+0.1	+0.6	+0.0	46.4	50.0	-3.6	Black
5	11.373M	35.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	46.2	50.0	-3.8	Black
6	10.896M	35.6	+9.7 +0.0	+0.3	+0.1	+0.2	+0.0	45.9	50.0	-4.1	Black
7	3.348M	31.7	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	41.8	46.0	-4.2	Black
8	4.785M	31.4	+9.6 +0.2	+0.2	+0.1	+0.1	+0.0	41.6	46.0	-4.4	Black
9	4.241M	31.4	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	41.5	46.0	-4.5	Black
10	4.692M	31.1	+9.6 +0.2	+0.2	+0.1	+0.1	+0.0	41.3	46.0	-4.7	Black
11	4.815M	31.1	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	41.2	46.0	-4.8	Black
12	3.986M	31.1	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	41.2	46.0	-4.8	Black
13	9.607M	34.9	+9.6 +0.0	+0.3	+0.1	+0.3	+0.0	45.2	50.0	-4.8	Black
14	4.905M	31.1	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	41.2	46.0	-4.8	Black

Page 8 of 91 Report No.: 95673-6A



15	10.202M	34.6	+9.7 +0.0	+0.3	+0.1	+0.3	+0.0	45.0	50.0	-5.0	Black
16	11.256M	34.6	+9.7	+0.3	+0.1	+0.2	+0.0	45.0	50.0	-5.0	Black
17	9.725M	34.6	+0.1	+0.3	+0.1	+0.3	+0.0	44.9	50.0	-5.1	Black
			+0.0								
18	12.103M	34.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	44.8	50.0	-5.2	Black
19	8.553M	34.3	+9.7 +0.1	+0.3	+0.1	+0.2	+0.0	44.7	50.0	-5.3	Black
20	4.224M	30.6	+9.6	+0.2	+0.1	+0.1	+0.0	40.7	46.0	-5.3	Black
21	10.661M	34.4	+0.1 +9.7	+0.3	+0.1	+0.2	+0.0	44.7	50.0	-5.3	Black
			+0.0								
22	9.139M	34.3	+9.6 +0.1	+0.3	+0.1	+0.3	+0.0	44.7	50.0	-5.3	Black
22	4 000M	20.2		+0.2	+0.1	+0.1	100	40.3	46.0	5 7	Dlastr
23	4.998M	30.2	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0		46.0	-5.7	Black
24	10.310M	33.9	+9.7 +0.0	+0.3	+0.1	+0.3	+0.0	44.3	50.0	-5.7	Black
25	3.629M	30.0	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	40.1	46.0	-5.9	Black
26	4.326M	29.7	+9.6	+0.2	+0.1	+0.1	+0.0	39.8	46.0	-6.2	Black
			+0.1								
27	310.712k	33.4	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	43.4	50.0	-6.6	Black
28	384.887k	31.8	+9.6 +0.0	+0.1	+0.0	+0.1	+0.0	41.6	48.2	-6.6	Black
29	7.391M	33.2	+9.6	+0.2	+0.1	+0.2	+0.0	43.4	50.0	-6.6	Black
2.0	2 (0 = 3 -	• • •	+0.1	0.0	0.4		0.0	20.2			·
30	3.607M	29.2	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	39.3	46.0	-6.7	Black
31	7.968M	32.7	+9.6	+0.3	+0.1	+0.2	+0.0	43.0	50.0	-7.0	Black
			+0.1								
32	349.253k	32.1	+9.6	+0.1	+0.0	+0.1	+0.0	42.0	49.0	-7.0	Black
			+0.1								
33	8.679M	32.6	+9.7 +0.1	+0.3	+0.1	+0.2	+0.0	43.0	50.0	-7.0	Black
34	8.436M	32.7	+9.6	+0.3	+0.1	+0.2	+0.0	43.0	50.0	-7.0	Black
			+0.1								
35	10.085M	32.5	+9.7 +0.0	+0.3	+0.1	+0.3	+0.0	42.9	50.0	-7.1	Black
36	5.418M	32.5	+9.7	+0.2	+0.1	+0.1	+0.0	42.8	50.0	-7.2	Black
	0.005		+0.2					42.5	50.		D: :
37	8.085M	32.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	42.8	50.0	-7.2	Black
38	424.883k	30.3	+9.6 +0.0	+0.1	+0.0	+0.1	+0.0	40.1	47.4	-7.3	Black
39	9.256M	32.3	+9.6	+0.3	+0.1	+0.3	+0.0	42.7	50.0	-7.3	Black
			+0.1								
40	11.472M	32.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	42.7	50.0	-7.3	Black
			±0.1								

Page 9 of 91 Report No.: 95673-6A



41	2.774M	28.6	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	38.6	46.0	-7.4	Black
42	3.752M	28.4	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	38.5	46.0	-7.5	Black
43	13.004M	32.2	+9.6	+0.3	+0.1	+0.2	+0.0	42.5	50.0	-7.5	Black
44	3.854M	27.9	+0.1 +9.6 +0.1	+0.2	+0.1	+0.1	+0.0	38.0	46.0	-8.0	Black
45	5.157M	31.8	+9.6 +0.2	+0.2	+0.1	+0.1	+0.0	42.0	50.0	-8.0	Black
46	3.773M	27.8	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	37.9	46.0	-8.1	Black
47	9.031M	31.5	+9.6 +0.1	+0.3	+0.1	+0.3	+0.0	41.9	50.0	-8.1	Black
48	11.580M	31.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	41.9	50.0	-8.1	Black
49	12.427M	31.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	41.8	50.0	-8.2	Black
50	7.499M	31.6	+9.6 +0.1	+0.2	+0.1	+0.2	+0.0	41.8	50.0	-8.2	Black
51	12.896M	31.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	41.8	50.0	-8.2	Black
52	12.535M	31.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	41.8	50.0	-8.2	Black
53	9.193M	31.2	+9.6 +0.1	+0.3	+0.1	+0.3	+0.0	41.6	50.0	-8.4	Black
54	9.688M	30.9	+9.6 +0.0	+0.3	+0.1	+0.3	+0.0	41.2	50.0	-8.8	Black
55	7.851M	30.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	41.0	50.0	-9.0	Black
56	9.842M	30.7	+9.6 +0.0	+0.3	+0.1	+0.3	+0.0	41.0	50.0	-9.0	Black
57	9.490M	30.0	+9.6 +0.0	+0.3	+0.1	+0.3	+0.0	40.3	50.0	-9.7	Black
58	166.725k	34.9	+9.6 +0.4	+0.1	+0.0	+0.1	+0.0	45.1	55.1	-10.0	Black
59	13.130M	29.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	40.0	50.0	-10.0	Black
60	463.425k	26.6	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	36.5	46.6	-10.1	Black
61	6.445M	29.7	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	39.8	50.0	-10.2	Black
62	10.427M	29.5	+9.7 +0.0	+0.3	+0.1	+0.2	+0.0	39.8	50.0	-10.2	Black
63	12.364M	29.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	39.7	50.0	-10.3	Black
64	13.481M	29.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	39.7	50.0	-10.3	Black
65	358.707k	28.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	38.3	48.8	-10.5	Black
66	2.463M	25.5	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	35.5	46.0	-10.5	Black

Page 10 of 91 Report No.: 95673-6A



67	10.391M	29.2	+9.7 +0.0	+0.3	+0.1	+0.2	+0.0	39.5	50.0	-10.5	Black
68	154.362k	34.5	+9.7	+0.0	+0.0	+0.1	+0.0	45.2	55.8	-10.6	Black
69	24.148M	28.0	+0.9	+0.4	+0.1	+0.6	+0.0	38.9	50.0	-11.1	Black
70	24.258M	28.0	+0.2	+0.4	+0.1	+0.6	+0.0	38.9	50.0	-11.1	Black
			+0.2								
71	13.589M	28.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	38.7	50.0	-11.3	Black
72	10.508M	28.3	+9.7	+0.3	+0.1	+0.2	+0.0	38.6	50.0	-11.4	Black
73	173.270k	33.0	+0.0	+0.1	+0.0	+0.1	+0.0	43.1	54.8	-11.7	Black
			+0.3								
74	195.086k	31.9	+9.6	+0.1	+0.0	+0.1	+0.0	41.9	53.8	-11.9	Black
75	273.624k	29.1	+0.2	+0.1	+0.0	+0.1	+0.0	39.1	51.0	-11.9	Black
, ,	273.02 IR	27.1	+0.2	. 0.1	. 0.0	0.1	. 0.0	37.1	21.0	11.9	Black
76	27.540M	26.8	+9.6 +0.2	+0.5	+0.1	+0.6	+0.0	37.8	50.0	-12.2	Black
77	187.814k	31.8	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	41.8	54.1	-12.3	Black
78	159.453k	33.0	+9.6	+0.0	+0.0	+0.1	+0.0	43.1	55.5	-12.4	Black
79	28.602M	26.4	+0.4	+0.5	+0.1	+0.7	+0.0	37.5	50.0	-12.5	Black
19	26.002101	20.4	+0.2	10.3	10.1	10.7	10.0	37.3	30.0	-12.3	Diack
80	28.719M	26.1	+9.6 +0.2	+0.5	+0.1	+0.7	+0.0	37.2	50.0	-12.8	Black
81	180.542k	31.5	+9.6 +0.3	+0.1	+0.0	+0.1	+0.0	41.6	54.5	-12.9	Black
82	404.521k	25.1	+9.6	+0.1	+0.0	+0.1	+0.0	34.9	47.8	-12.9	Black
02	101.521R	20.1	+0.0	. 0.1	. 0.0	0.1	. 0.0	5 1.5	17.0	12.9	Black
83	504.148k	23.1	+9.7	+0.1	+0.0	+0.1	+0.0	33.1	46.0	-12.9	Black
84	28.006M	25.9	+0.1	+0.5	+0.1	+0.7	+0.0	37.0	50.0	-13.0	Black
04	20.000WI	23.9	+0.2	10.3	10.1	10.7	10.0	37.0	30.0	-13.0	Diack
85	420.520k	24.5	+9.6 +0.0	+0.1	+0.0	+0.1	+0.0	34.3	47.4	-13.1	Black
86	6.634M	26.8	+9.6	+0.2	+0.1	+0.1	+0.0	36.9	50.0	-13.1	Black
	0.00 1111	20.0	+0.1	0.2	0.1	0.1	0.0	20.5	20.0	15.1	
87	26.485M	25.7	+9.7 +0.2	+0.5	+0.1	+0.6	+0.0	36.8	50.0	-13.2	Black
88	398.703k	24.8	+9.6	+0.1	+0.0	+0.1	+0.0	34.6	47.9	-13.3	Black
			+0.0								
89	26.951M	25.7	+9.6 +0.2	+0.5	+0.1	+0.6	+0.0	36.7	50.0	-13.3	Black
90	13.364M	26.3	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.6	50.0	-13.4	Black
91	443.063k	23.5	+9.6	+0.1	+0.0	+0.1	+0.0	33.3	47.0	-13.7	Black
			+0.0								
92	27.430M	25.3	+9.6 +0.2	+0.5	+0.1	+0.6	+0.0	36.3	50.0	-13.7	Black
			+0.2								

Page 11 of 91 Report No.: 95673-6A



93	28.129M	25.2	+9.6 +0.2	+0.5	+0.1	+0.7	+0.0	36.3	50.0	-13.7	Black
94	27.067M	25.0	+9.6	+0.5	+0.1	+0.6	+0.0	36.0	50.0	-14.0	Black
0.5	1406714	25.6	+0.2	+0.2	+0.1	.0.2	10.0	25.0	50.0	1.4.1	D1 1
95	14.067M	25.6	+9.6	+0.3	+0.1	+0.2	+0.0	35.9	50.0	-14.1	Black
96	446.699k	22.8	+0.1	+0.1	+0.0	+0.1	+0.0	32.6	46.9	-14.3	Dlask
90	440.099K	22.0	+0.0	±0.1	±0.0	70.1	+0.0	32.0	40.9	-14.3	Black
97	27.307M	24.7	+9.6	+0.5	+0.1	+0.6	+0.0	35.7	50.0	-14.3	Black
	27.507111	21.7	+0.2	. 0.5	. 0.1	. 0.0	. 0.0	33.1	50.0	11.5	Diuck
98	27.657M	24.7	+9.6	+0.5	+0.1	+0.6	+0.0	35.7	50.0	-14.3	Black
			+0.2								
99	23.915M	24.6	+9.7	+0.4	+0.1	+0.6	+0.0	35.6	50.0	-14.4	Black
			+0.2								
100	24.498M	24.7	+9.6	+0.4	+0.1	+0.6	+0.0	35.6	50.0	-14.4	Black
			+0.2								
101	453.244k	22.4	+9.6	+0.1	+0.0	+0.1	+0.0	32.3	46.8	-14.5	Black
			+0.1								
102	27.198M	24.5	+9.6	+0.5	+0.1	+0.6	+0.0	35.5	50.0	-14.5	Black
			+0.2								
103	392.159k	23.6	+9.6	+0.1	+0.0	+0.1	+0.0	33.4	48.0	-14.6	Black
104	207 (221	25.5	+0.0	. 0.1		. 0. 1		25.5	50.2	140	D1 1
104	297.622k	25.5	+9.6	+0.1	+0.0	+0.1	+0.0	35.5	50.3	-14.8	Black
105	110 1521-	22.0	+0.2	+0.1	+0.0	+0.1	+0.0	31.9	46.9	-15.0	Black
103	448.153k	22.0	+9.0 +0.1	+0.1	+0.0	+0.1	+0.0	31.9	40.9	-13.0	Diack
106	13.716M	24.7	+9.6	+0.3	+0.1	+0.2	+0.0	35.0	50.0	-15.0	Black
100	13.71011	27.7	+0.1	10.5	. 0.1	10.2	10.0	33.0	30.0	13.0	Diack
107	26.019M	23.9	+9.7	+0.4	+0.1	+0.6	+0.0	34.9	50.0	-15.1	Black
			+0.2								
108	29.061M	23.7	+9.6	+0.5	+0.1	+0.8	+0.0	34.9	50.0	-15.1	Black
			+0.2								
109	14.184M	24.5	+9.6	+0.3	+0.1	+0.2	+0.0	34.8	50.0	-15.2	Black
			+0.1								
110	21.211M	23.5	+9.7	+0.4	+0.1	+0.8	+0.0	34.7	50.0	-15.3	Black
			+0.2								
111	26.841M	23.6	+9.7	+0.5	+0.1	+0.6	+0.0	34.7	50.0	-15.3	Black
110	125 7011	21.0	+0.2	. 0. 1		.0.1		21.7	47.1	15.4	D1 1
112	435.791k	21.9	+9.6	+0.1	+0.0	+0.1	+0.0	31.7	47.1	-15.4	Black
113	13.950M	24.3	+0.0	+0.3	+0.1	+0.2	+0.0	34.6	50.0	-15.4	Black
113	13.93UNI	24.3	+9.6 +0.1	±0.3	±0.1	±0.∠	±0.0	34.0	30.0	-13.4	DIACK
114	20.625M	23.5	+9.7	+0.4	+0.1	+0.7	+0.0	34.6	50.0	-15.4	Black
117	20.023111	43.3	+0.2	· U.T	0.1	. 0.7	.0.0	J-1.U	20.0	-13.⊤	Diack
115	20.517M	23.2	+9.7	+0.4	+0.1	+0.7	+0.0	34.3	50.0	-15.7	Black
1		_	+0.2	J	J. 1	J.,			- 3.0	-0.,	
116	28.828M	23.1	+9.6	+0.5	+0.1	+0.7	+0.0	34.2	50.0	-15.8	Black
			+0.2								
117	29.191M	23.0	+9.6	+0.5	+0.1	+0.8	+0.0	34.2	50.0	-15.8	Black
			+0.2								
118	27.506M	23.1	+9.6	+0.5	+0.1	+0.6	+0.0	34.1	50.0	-15.9	Black
			+0.2								

Page 12 of 91 Report No.: 95673-6A



119	27.896M	23.1	+9.6 +0.2	+0.5	+0.1	+0.6	+0.0	34.1	50.0	-15.9	Black
120	29.294M	22.9	+9.6	+0.5	+0.1	+0.8	+0.0	34.1	50.0	-15.9	Black
121	15 220M	22.6	+0.2	+0.3	+0.1	+0.2	+0.0	24.0	50.0	160	Dlask
121	15.238M	23.6	+9.7 +0.1	+0.3	+0.1	+0.2	+0.0	34.0	50.0	-16.0	Black
122	20.157M	22.9	+9.7	+0.4	+0.1	+0.7	+0.0	34.0	50.0	-16.0	Black
122	20.107111	22.9	+0.2	. 0. 1	. 0.1	. 0.7	. 0.0	3 1.0	20.0	10.0	Black
123	28.239M	22.9	+9.6	+0.5	+0.1	+0.7	+0.0	34.0	50.0	-16.0	Black
			+0.2								
124	2.038M	20.0	+9.6	+0.1	+0.0	+0.1	+0.0	29.9	46.0	-16.1	Black
			+0.1								
125	14.643M	23.6	+9.6	+0.3	+0.1	+0.2	+0.0	33.9	50.0	-16.1	Black
126	25 42014	22.0	+0.1	+0.4	+0.1	10.6	10.0	22.0	50.0	16.1	D11.
126	25.430M	22.9	+9.7 +0.2	+0.4	+0.1	+0.6	+0.0	33.9	50.0	-16.1	Black
127	484.514k	20.2	+9.6	+0.1	+0.0	+0.1	+0.0	30.1	46.3	-16.2	Black
127	404.514K	20.2	+0.1	. 0.1	10.0	. 0.1	10.0	30.1	40.5	10.2	Diack
128	431.428k	21.2	+9.6	+0.1	+0.0	+0.1	+0.0	31.0	47.2	-16.2	Black
			+0.0								
129	21.094M	22.7	+9.7	+0.4	+0.1	+0.7	+0.0	33.8	50.0	-16.2	Black
			+0.2								
130	20.049M	22.8	+9.6	+0.4	+0.1	+0.7	+0.0	33.8	50.0	-16.2	Black
121	25 2201 5	22.0	+0.2	. 0. 4	. 0. 1	. 0 . 6	. 0. 0	22.5	5 0.0	160	D1 1
131	25.320M	22.8	+9.6 +0.2	+0.4	+0.1	+0.6	+0.0	33.7	50.0	-16.3	Black
132	25.896M	22.7	+9.7	+0.4	+0.1	+0.6	+0.0	33.7	50.0	-16.3	Black
132	23.690W	22.1	+0.2	10.4	10.1	10.0	10.0	33.1	30.0	-10.5	Diack
133	23.854M	22.5	+9.7	+0.4	+0.1	+0.6	+0.0	33.5	50.0	-16.5	Black
			+0.2								
134	501.239k	19.5	+9.7	+0.1	+0.0	+0.1	+0.0	29.5	46.0	-16.5	Black
			+0.1								
135	29.774M	22.2	+9.6	+0.5	+0.1	+0.9	+0.0	33.5	50.0	-16.5	Black
			+0.2								
136	26.601M	22.4	+9.7	+0.5	+0.1	+0.6	+0.0	33.5	50.0	-16.5	Black
127	25 702M	22.4	+0.2	+0.4	+0.1	10.6	+0.0	22.4	50.0	16.6	Dlask
137	25.793M	22.4	+9.7 +0.2	+0.4	+0.1	+0.6	+0.0	33.4	50.0	-16.6	Black
138	21.562M	22.2	+9.7	+0.4	+0.1	+0.8	+0.0	33.4	50.0	-16.6	Black
130	21.002111		+0.2		. 0.1	. 0.0	. 0.0	55.1	20.0	10.0	Diack
139	29.644M	22.2	+9.6	+0.5	+0.1	+0.8	+0.0	33.4	50.0	-16.6	Black
			+0.2								
140	26.540M	22.3	+9.7	+0.5	+0.1	+0.6	+0.0	33.4	50.0	-16.6	Black
	• • • • • • • • • • • • • • • • • • • •		+0.2								
141	28.362M	22.1	+9.6	+0.5	+0.1	+0.7	+0.0	33.2	50.0	-16.8	Black
1.42	20.07714	22.0	+0.2	±0.4	±0 1	±0.7	±0.0	22 1	50.0	16.0	Dlast
142	20.977M	22.0	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	33.1	50.0	-16.9	Black
143	24.964M	22.2	+9.6	+0.4	+0.1	+0.6	+0.0	33.1	50.0	-16.9	Black
173	27.7UTIVI	44.4	+0.2	· U.T	0.1	. 0.0	. 0.0	JJ.1	20.0	10.7	Diack
144	15.706M	22.6	+9.7	+0.3	+0.1	+0.2	+0.0	33.0	50.0	-17.0	Black
			+0.1								

Page 13 of 91 Report No.: 95673-6A



145	19.932M	21.9	+9.6 +0.2	+0.4	+0.1	+0.6	+0.0	32.8	50.0	-17.2	Black
146	28.945M	21.6	+9.6	+0.5	+0.1	+0.7	+0.0	32.7	50.0	-17.3	Black
147	29.342M	21.4	+0.2	+0.5	+0.1	+0.8	+0.0	32.6	50.0	-17.4	Black
147	29.342IVI	21.4	+0.2	10.3	10.1	10.8	10.0	32.0	30.0	-1 / .4	Diack
148	291.804k	23.0	+9.6	+0.1	+0.0	+0.1	+0.0	33.0	50.5	-17.5	Black
			+0.2								
149	478.696k	19.0	+9.6	+0.1	+0.0	+0.1	+0.0	28.9	46.4	-17.5	Black
1.50	40.5.4001	10.5	+0.1	. 0. 1		. 0.1	. 0. 0	20.6	46.1	15.5	D1 1
150	495.422k	18.7	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	28.6	46.1	-17.5	Black
151	25.560M	21.4	+9.7	+0.4	+0.1	+0.6	+0.0	32.4	50.0	-17.6	Black
131	23.300W	21.7	+0.2	⊺ ∪. ¬	10.1	10.0	10.0	32.4	30.0	-17.0	Diack
152	543.417k	18.6	+9.5	+0.1	+0.0	+0.1	+0.0	28.4	46.0	-17.6	Black
			+0.1								
153	29.404M	21.2	+9.6	+0.5	+0.1	+0.8	+0.0	32.4	50.0	-17.6	Black
			+0.2								
154	26.725M	21.3	+9.7	+0.5	+0.1	+0.6	+0.0	32.4	50.0	-17.6	Black
1.5.5	1477014	22.0	+0.2	10.2	+0.1	10.2	100	22.2	50.0	17.7	D11.
155	14.770M	22.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	32.3	50.0	-17.7	Black
156	16.310M	21.9	+9.7	+0.3	+0.1	+0.2	+0.0	32.3	50.0	-17.7	Black
130	10.510141	21.7	+0.1	. 0.5	. 0.1	. 0.2	. 0.0	32.3	50.0	17.7	Diuck
157	285.987k	22.8	+9.6	+0.1	+0.0	+0.1	+0.0	32.8	50.6	-17.8	Black
			+0.2								
158	24.840M	21.3	+9.6	+0.4	+0.1	+0.6	+0.0	32.2	50.0	-17.8	Black
			+0.2								
159	21.625M	20.9	+9.7	+0.4	+0.1	+0.8	+0.0	32.1	50.0	-17.9	Black
160	25 (7())	21.1	+0.2	+0.4	+0.1	10.6	100	22.1	50.0	17.0	D11-
160	25.676M	21.1	+9.7 +0.2	+0.4	+0.1	+0.6	+0.0	32.1	50.0	-17.9	Black
161	15.824M	21.5	+9.7	+0.3	+0.1	+0.2	+0.0	31.9	50.0	-18.1	Black
101	13.02 1141	21.5	+0.1	. 0.5	. 0.1	. 0.2	. 0.0	51.7	50.0	10.1	Diuck
162	16.175M	21.4	+9.7	+0.3	+0.1	+0.2	+0.0	31.8	50.0	-18.2	Black
			+0.1								
163	21.679M	20.6	+9.7	+0.4	+0.1	+0.8	+0.0	31.8	50.0	-18.2	Black
			+0.2								
164	15.589M	21.3	+9.7	+0.3	+0.1	+0.2	+0.0	31.7	50.0	-18.3	Black
165	20.74214	20.6	+0.1	+0.4	±0 1	+0.7		21.7	50.0	10.2	Dlast
165	20.743M	20.6	+9.7 +0.2	+0.4	+0.1	+∪./	+0.0	31.7	50.0	-18.3	Black
166	15.004M	21.3	+9.6	+0.3	+0.1	+0.2	+0.0	31.6	50.0	-18.4	Black
100	15.00 1111	21.3	+0.1	. 0.5	. 0.1	. 0.2	. 0.0	51.0	50.0	10.7	Diuck
167	19.806M	20.7	+9.6	+0.4	+0.1	+0.6	+0.0	31.6	50.0	-18.4	Black
			+0.2								
168	15.121M	21.1	+9.7	+0.3	+0.1	+0.2	+0.0	31.5	50.0	-18.5	Black
			+0.1								
169	499.785k	17.5	+9.7	+0.1	+0.0	+0.1	+0.0	27.5	46.0	-18.5	Black
170	10 44514	20.6	+0.1	±0.4	±0 1	±0.4		21.5	50.0	10 5	Dlast
170	19.445M	20.6	+9.6 +0.2	+0.4	+0.1	+0.6	+0.0	31.5	50.0	-18.5	Black
			10.2								

Page 14 of 91 Report No.: 95673-6A



171 17,905M 20.9 +9.7 +0.4 +0.1 +0.3 +0.0 31.5 50.0 -18.5 Black +0.2 +0.2 +0.2 +0.2 +0.1 +0.0 31.3 50.0 -18.7 Black +0.2 +												
172 289.623k 21.9 +9.6 +0.1 +0.0 +0.1 +0.0 31.9 50.5 -18.6 Black +0.2 +0.0 31.2 50.0 -18.8 Black +0.2 +0.1 +0.1 +0.6 +0.0 31.2 50.0 -18.8 Black +0.2	171	17.905M	20.9		+0.4	+0.1	+0.3	+0.0	31.5	50.0	-18.5	Black
173 22.157M 20.2 +9.7 +0.4 +0.1 +0.7 +0.0 31.3 50.0 -18.7 Black +0.2 174 281.623k 22.0 +9.6 +0.1 +0.0 +0.1 +0.0 32.0 50.8 -18.8 Black +0.2 175 17.472M 20.7 +9.7 +0.4 +0.1 +0.2 +0.0 31.2 50.0 -18.8 Black +0.1 +0.1 +0.1 +0.6 +0.0 31.2 50.0 -18.8 Black +0.1 +0.2 +0.0 31.2 50.0 -18.8 Black +0.1 +0.2 +0.0 31.2 50.0 -18.8 Black +0.1 +0.2 +0.0 30.9 50.0 -19.1 Black +0.1 +0.1 +0.5 +0.0 30.9 50.0 -19.1 Black +0.1 +0.1 +0.6 +0.0 30.9 50.0 -19.1 Black +0.1 +0.1 +0.6 +0.0 30.9 50.0 -19.2 Black +0.1 +0.1 +0.1 +0.0 +0.1 +0.0 26.8 46.0 -19.2 Black +0.1 +0.1 +0.0 +0.1 +0.0 26.8 46.0 -19.2 Black +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black +0.1 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.1 +0.1 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black +0.1 +0.1 +0.0 +0.1 +0.0 30.7 50.0 -19.3 Black +0.2 +0.2 +0.1 +0.0 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.1 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.1 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.1 +0.1 +0.0 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.1 +0.1 +0.0 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.1 +0.1 +0.0 +0.1 +0.0 40.1 +0.0 +0.1 +0.0 40.1 +0.0 +0.1 +0.0 40.0 +0.1 +0.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 40.0 +0.1 +0.0 4	172	289.623k	21.9	+9.6	+0.1	+0.0	+0.1	+0.0	31.9	50.5	-18.6	Black
174 281.623k 22.0 +9.6 +0.1 +0.0 +0.1 +0.0 32.0 50.8 -18.8 Black +0.2	173	22.157M	20.2		+0.4	+0.1	+0.7	+0.0	31.3	50.0	-18.7	Black
174				+0.2								
175	174	281.623k	22.0	+9.6	+0.1	+0.0	+0.1	+0.0	32.0	50.8	-18.8	Black
176	175	17.472M	20.7	+9.7	+0.4	+0.1	+0.2	+0.0	31.2	50.0	-18.8	Black
177 15.355M 20.5 +9.7 +0.3 +0.1 +0.2 +0.0 30.9 50.0 -19.1 Black +0.1 +0.1 +0.5 +0.0 30.9 50.0 -19.1 Black +0.1 +0.1 +0.5 +0.0 30.9 50.0 -19.1 Black +0.1 +0.1 +0.6 +0.0 30.9 50.0 -19.1 Black +0.1 +0.2 +0.2 +0.2 +0.1 +0.0 +0.1 +0.0 26.8 46.0 -19.2 Black +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black +0.1 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black +0.1 +0.1 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black +0.1 +0.1 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.1 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.1 +0.1 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.2 +0.2 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.2 +0.2 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.2 +0.1 +0.1 +0.6 +0.0 30.7 50.0 -19.6 Black +0.2 +0.1 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black +0.2 +	176	23.085M	20.2	+9.7	+0.4	+0.1	+0.6	+0.0	31.2	50.0	-18.8	Black
178 18.959M 20.2 +9.6 +0.4 +0.1 +0.5 +0.0 30.9 50.0 -19.1 Black +0.1 179 23.676M 19.9 +9.7 +0.4 +0.1 +0.6 +0.0 30.9 50.0 -19.1 Black +0.2 180 506.330k 16.8 +9.7 +0.1 +0.0 +0.1 +0.0 26.8 46.0 -19.2 Black +0.1 181 22.040M 19.7 +9.7 +0.4 +0.1 +0.7 +0.0 30.8 50.0 -19.2 Black +0.2 182 24.731M 19.9 +9.6 +0.4 +0.1 +0.6 +0.0 30.8 50.0 -19.2 Black +0.2 183 1.851M 16.8 +9.6 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black +0.1 184 15.049M 20.4 +9.6 +0.1 +0.0 +0.1 +0.2 +0.0 30.7 50.0 -19.3 Black +0.1 185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.2 186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black +0.2 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.2 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.1 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black +0.1 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black +0.1 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1	177	15.355M	20.5	+9.7	+0.3	+0.1	+0.2	+0.0	30.9	50.0	-19.1	Black
179 23.676M 19.9 +9.7 +0.4 +0.1 +0.6 +0.0 30.9 50.0 -19.1 Black +0.2	178	18 959M	20.2		+0.4	+0.1	+0.5	+0.0	30.9	50.0	_10 1	Black
179 23.676M 19.9 +9.7 +0.4 +0.1 +0.6 +0.0 30.9 50.0 -19.1 Black +0.2	176	10.73711	20.2		¹ U. ⊣	10.1	10.5	10.0	30.7	30.0	-17.1	Diack
180 506,330k 16.8 +9.7 +0.1 +0.0 +0.1 +0.0 26.8 46.0 -19.2 Black +0.1 +0.1 +0.1 +0.7 +0.0 30.8 50.0 -19.2 Black +0.2 182 24.731M 19.9 +9.6 +0.4 +0.1 +0.6 +0.0 30.8 50.0 -19.2 Black +0.2 183 1.851M 16.8 +9.6 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black +0.1 184 15.049M 20.4 +9.6 +0.3 +0.1 +0.2 +0.0 30.7 50.0 -19.3 Black +0.1 185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.2 186 471,424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black +0.1 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 30.4 50.0 -19.6 Black +0.1 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black +0.1 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black +0.1 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black +0.1 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 18.00M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1 190 190.00M 18.00M 18.00M 18.00M 1	179	23 676M	19 9		+0 4	+0.1	+0.6	+0.0	30.9	50.0	-19 1	Black
180 506.330k 16.8 +9.7 +0.1 +0.0 +0.1 +0.0 26.8 46.0 -19.2 Black 181 22.040M 19.7 +9.7 +0.4 +0.1 +0.7 +0.0 30.8 50.0 -19.2 Black 182 24.731M 19.9 +9.6 +0.4 +0.1 +0.6 +0.0 30.8 50.0 -19.2 Black 183 1.851M 16.8 +9.6 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black 184 15.049M 20.4 +9.6 +0.3 +0.1 +0.2 +0.0 30.7 50.0 -19.3 Black 185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black 186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black 187	1//	23.070111	17.7			. 0.1	.0.0	. 0.0	30.9	20.0	17.1	Bluck
181 22.040M 19.7 +9.7 +0.4 +0.1 +0.7 +0.0 30.8 50.0 -19.2 Black 182 24.731M 19.9 +9.6 +0.4 +0.1 +0.6 +0.0 30.8 50.0 -19.2 Black 183 1.851M 16.8 +9.6 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black 184 15.049M 20.4 +9.6 +0.3 +0.1 +0.2 +0.0 30.7 50.0 -19.3 Black 185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black 186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black 189	180	506.330k	16.8	+9.7	+0.1	+0.0	+0.1	+0.0	26.8	46.0	-19.2	Black
182 24.731M 19.9 +9.6 +0.4 +0.1 +0.6 +0.0 30.8 50.0 -19.2 Black 183 1.851M 16.8 +9.6 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black 184 15.049M 20.4 +9.6 +0.3 +0.1 +0.2 +0.0 30.7 50.0 -19.3 Black 185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black 186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black 189	181	22.040M	19.7	+9.7	+0.4	+0.1	+0.7	+0.0	30.8	50.0	-19.2	Black
+0.2 183 1.851M 16.8 +9.6 +0.1 +0.0 +0.1 +0.0 26.7 46.0 -19.3 Black +0.1 184 15.049M 20.4 +9.6 +0.3 +0.1 +0.2 +0.0 30.7 50.0 -19.3 Black +0.1 185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black +0.2 186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black +0.1 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black +0.2 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black +0.1 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black +0.1 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black +0.1 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1												
+0.1 184	182	24.731M	19.9		+0.4	+0.1	+0.6	+0.0	30.8	50.0	-19.2	Black
184 15.049M 20.4 +9.6 +0.3 +0.1 +0.2 +0.0 30.7 50.0 -19.3 Black 185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black 186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black 191	183	1.851M	16.8		+0.1	+0.0	+0.1	+0.0	26.7	46.0	-19.3	Black
185 19.553M 19.8 +9.6 +0.4 +0.1 +0.6 +0.0 30.7 50.0 -19.3 Black 186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black	184	15.049M	20.4		+0.3	+0.1	+0.2	+0.0	30.7	50.0	-19.3	Black
186 471.424k 17.0 +9.6 +0.1 +0.0 +0.1 +0.0 26.9 46.5 -19.6 Black 187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black	185	19.553M	19.8	+9.6	+0.4	+0.1	+0.6	+0.0	30.7	50.0	-19.3	Black
+0.1 187	186	471 424k	17.0		+0.1	+0.0	+0.1	+0.0	26.9	46.5	-196	Black
187 198.722k 24.1 +9.6 +0.1 +0.0 +0.1 +0.0 34.1 53.7 -19.6 Black 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black	100	1,71.12 IR	17.0			. 0.0	. 0.1	. 0.0	20.9	10.5	17.0	Bluck
+0.2 188 18.878M 19.8 +9.6 +0.4 +0.1 +0.4 +0.0 30.4 50.0 -19.6 Black +0.1 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black +0.1 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black +0.1 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1	187	198.722k	24.1		+0.1	+0.0	+0.1	+0.0	34.1	53.7	-19.6	Black
+0.1 189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black +0.1 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black +0.1 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1												
189 14.734M 20.1 +9.6 +0.3 +0.1 +0.2 +0.0 30.4 50.0 -19.6 Black 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1	188	18.878M	19.8	+9.6	+0.4	+0.1	+0.4	+0.0	30.4	50.0	-19.6	Black
+0.1 190 519.420k 16.4 +9.6 +0.1 +0.0 +0.1 +0.0 26.3 46.0 -19.7 Black +0.1 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1												
+0.1 191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1	189	14.734M	20.1		+0.3	+0.1	+0.2	+0.0	30.4	50.0	-19.6	Black
191 1.800M 16.3 +9.6 +0.1 +0.0 +0.1 +0.0 26.2 46.0 -19.8 Black +0.1	190	519.420k	16.4		+0.1	+0.0	+0.1	+0.0	26.3	46.0	-19.7	Black
+0.1	191	1 800M	16.3		+0.1	+0.0	+0.1	+0.0	26.2	46.0	-19 8	Black
	171			+0.1								Diack
192 22.743M 19.1 +9.7 +0.4 +0.1 +0.7 +0.0 30.2 50.0 -19.8 Black +0.2	192	22.743M	19.1	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	30.2	50.0	-19.8	Black
193 22.625M 19.0 +9.7 +0.4 +0.1 +0.7 +0.0 30.1 50.0 -19.9 Black	193	22.625M	19.0		+0 4	+0 1	+0.7	+0.0	30 1	50.0	-199	Black
+0.2	173	0_0111	17.0		·	0.1	0.7	0.0	20.1	50.0	17.7	Liuvi
194 200.903k 23.4 +9.6 +0.1 +0.0 +0.1 +0.0 33.4 53.6 -20.2 Black +0.2	194	200.903k	23.4	+9.6	+0.1	+0.0	+0.1	+0.0	33.4	53.6	-20.2	Black
195 22.229M 18.6 +9.7 +0.4 +0.1 +0.7 +0.0 29.7 50.0 -20.3 Black	195	22.229M	18.6		+0.4	+0.1	+0.7	+0.0	29.7	50.0	-20.3	Black
				+0.2								
	196	475.060k	16.1	+9.6	+0.1	+0.0	+0.1	+0.0	26.0	46.4	-20.4	Black
												Bluck

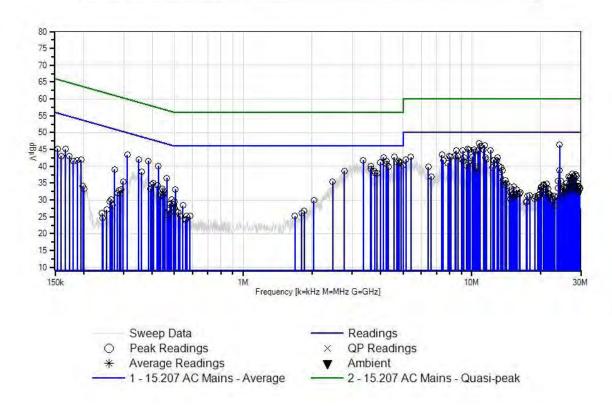
Page 15 of 91 Report No.: 95673-6A



197 17.355M 18.9 +9.7 +0.4 +0.1 +0.2 +0.0 29.4 50.0 -20.6 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.3 46.0 -20.7 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.3 46.0 -20.7 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.3 46.0 -20.7 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.3 46.0 -20.7 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black +0.1 +0.1 +0.1 +0.2 +0.0 29.2 50.0 -20.8 Black +0.1 +0.1 +0.1 +0.2 +0.0 29.2 50.0 -20.8 Black +0.1 +0.1 +0.1 +0.0 +0.1 +0.0 25.5 46.6 -21.1 Black +0.1 +0.1 +0.0 +0.1 +0.0 25.5 46.6 -21.1 Black +0.2												
198 528.873k 15.4 +9.6 +0.1 +0.0 +0.1 +0.0 25.3 46.0 -20.7 Black 199 565.234k 15.4 +9.6 +0.1 +0.0 +0.1 +0.0 25.3 46.0 -20.7 Black 200 584.141k 15.3 +9.6 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black 201 1.685M 15.3 +9.6 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black 202 17.292M 18.7 +9.7 +0.4 +0.1 +0.2 +0.0 29.2 50.0 -20.8 Black 203 467.061k 15.6 +9.6 +0.1 +0.0 +0.1 +0.0 25.5 46.6 -21.1 Black 204 263.443k 20.1 +9.6 +0.1 +0.0 +0.1 +0.0 25.5 46.6 -21.1 Black 205	197	17.355M	18.9		+0.4	+0.1	+0.2	+0.0	29.4	50.0	-20.6	Black
+0.1				+0.1								
199 565.234k 15.4 +9.6 +0.1 +0.0 +0.1 +0.0 25.3 46.0 -20.7 Black 200 584.141k 15.3 +9.6 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black 201 1.685M 15.3 +9.6 +0.1 +0.0 +0.1 +0.0 25.2 46.0 -20.8 Black 202 17.292M 18.7 +9.7 +0.4 +0.1 +0.2 +0.0 29.2 50.0 -20.8 Black 203 467.061k 15.6 +9.6 +0.1 +0.0 +0.1 +0.0 29.2 50.0 -20.8 Black 204 263.443k 20.1 +9.6 +0.1 +0.0 +0.1 +0.0 30.1 51.3 -21.2 Black 205 23.130M 17.4 +9.7 +0.4 +0.1 +0.6 +0.1 +0.0 28.4 50.0 -21.6 Black	198	528.873k	15.4	+9.6	+0.1	+0.0	+0.1	+0.0	25.3	46.0	-20.7	Black
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+0.1 201				+0.1								
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+0.1 202 17.292M 18.7 +9.7 +0.4 +0.1 +0.2 +0.0 29.2 50.0 -20.8 Black +0.1 203 467.061k 15.6 +9.6 +0.1 +0.0 +0.1 +0.0 25.5 46.6 -21.1 Black +0.1 204 263.443k 20.1 +9.6 +0.1 +0.0 +0.1 +0.0 30.1 51.3 -21.2 Black +0.2 205 23.130M 17.4 +9.7 +0.4 +0.1 +0.6 +0.0 28.4 50.0 -21.6 Black +0.2 206 563.052k 14.4 +9.6 +0.1 +0.0 +0.1 +0.0 24.3 46.0 -21.7 Black +0.1 207 558.689k 14.2 +9.6 +0.1 +0.0 +0.1 +0.0 24.1 46.0 -21.9 Black +0.1 208 260.534k 19.4 +9.6 +0.1 +0.0 +0.1 +0.0 29.4 51.4 -22.0 Black +0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.1								
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+0.1 203 467.061k 15.6 +9.6 +0.1 +0.0 +0.1 +0.0 25.5 46.6 -21.1 Black +0.1 204 263.443k 20.1 +9.6 +0.1 +0.0 +0.1 +0.0 30.1 51.3 -21.2 Black +0.2 205 23.130M 17.4 +9.7 +0.4 +0.1 +0.6 +0.0 28.4 50.0 -21.6 Black +0.2 206 563.052k 14.4 +9.6 +0.1 +0.0 +0.1 +0.0 24.3 46.0 -21.7 Black +0.1 207 558.689k 14.2 +9.6 +0.1 +0.0 +0.1 +0.0 24.1 46.0 -21.9 Black +0.1 208 260.534k 19.4 +9.6 +0.1 +0.0 +0.1 +0.0 29.4 51.4 -22.0 Black +0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.1								
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+0.1 204 263.443k 20.1 +9.6 +0.1 +0.0 +0.1 +0.0 30.1 51.3 -21.2 Black +0.2 205 23.130M 17.4 +9.7 +0.4 +0.1 +0.6 +0.0 28.4 50.0 -21.6 Black +0.2 206 563.052k 14.4 +9.6 +0.1 +0.0 +0.1 +0.0 24.3 46.0 -21.7 Black +0.1 207 558.689k 14.2 +9.6 +0.1 +0.0 +0.1 +0.0 24.1 46.0 -21.9 Black +0.1 208 260.534k 19.4 +9.6 +0.1 +0.0 +0.1 +0.0 29.4 51.4 -22.0 Black +0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.1								
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+0.2 205 23.130M 17.4 +9.7 +0.4 +0.1 +0.6 +0.0 28.4 50.0 -21.6 Black +0.2 206 563.052k 14.4 +9.6 +0.1 +0.0 +0.1 +0.0 24.3 46.0 -21.7 Black +0.1 207 558.689k 14.2 +9.6 +0.1 +0.0 +0.1 +0.0 24.1 46.0 -21.9 Black +0.1 208 260.534k 19.4 +9.6 +0.1 +0.0 +0.1 +0.0 29.4 51.4 -22.0 Black +0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.1								
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+0.2 206 563.052k 14.4 +9.6 +0.1 +0.0 +0.1 +0.0 24.3 46.0 -21.7 Black +0.1 207 558.689k 14.2 +9.6 +0.1 +0.0 +0.1 +0.0 24.1 46.0 -21.9 Black +0.1 208 260.534k 19.4 +9.6 +0.1 +0.0 +0.1 +0.0 29.4 51.4 -22.0 Black +0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.2								
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+0.1 207 558.689k 14.2 +9.6 +0.1 +0.0 +0.1 +0.0 24.1 46.0 -21.9 Black +0.1 208 260.534k 19.4 +9.6 +0.1 +0.0 +0.1 +0.0 29.4 51.4 -22.0 Black +0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.2								
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+0.1 208 260.534k 19.4 +9.6 +0.1 +0.0 +0.1 +0.0 29.4 51.4 -22.0 Black +0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.1								
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+0.2 209 267.806k 18.5 +9.6 +0.1 +0.0 +0.1 +0.0 28.5 51.2 -22.7 Black +0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.1								
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+0.2 210 252.535k 17.1 +9.6 +0.1 +0.0 +0.1 +0.0 27.1 51.7 -24.6 Black +0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.2								
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+0.2 211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.2								
211 241.627k 16.1 +9.6 +0.1 +0.0 +0.1 +0.0 26.1 52.0 -25.9 Black +0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black	210	252.535k	17.1	+9.6	+0.1	+0.0	+0.1	+0.0	27.1	51.7	-24.6	Black
+0.2 212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black				+0.2								
212 243.081k 14.7 +9.6 +0.1 +0.0 +0.1 +0.0 24.7 52.0 -27.3 Black	211	241.627k	16.1	+9.6	+0.1	+0.0	+0.1	+0.0	26.1	52.0	-25.9	Black
				+0.2								
+0.2	212	243.081k	14.7	+9.6	+0.1	+0.0	+0.1	+0.0	24.7	52.0	-27.3	Black
				+0.2								



CKC Laboratories, Inc. Date: 5/9/2014 Time: 10:42:53 AM Enlighted, Inc WO#: 95673 Test Lead: Black 120V 60Hz Sequence#: 1





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 #: 95673 Date: 5/9/2014
Test Type: Conducted Emissions Time: 10:47:30 AM

Equipment: Sensor Sequence#: 2

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b 120V 60Hz

S/N: ENG 1

Test Equipment:

Test Equi	Pinteritt				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
Т3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN00493	50uH LISN-L1 (L)	3816/NM	3/4/2013	3/4/2015
		Loss W/O European			
		Adapter			
T4	AN00493	50uH LISN-L(2) N	3816/NM	3/4/2013	3/4/2015
		Loss W/O European			
		Adapter			
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T5	ANP05258	High Pass Filter	HE9615-150K-	12/6/2012	12/6/2014
			50-720B		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 18 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Conducted Emission

Frequency Range: 150kHz to 30MHz Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits next to it. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by RS 232 cable. The EUT is set continuously transmit.

Ext Attn: 0 dB

Measur	rement Data:	Re	eading list	ted by ma	argin.			Test Lead	d: White		
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V$	$dB\mu V$	dB	Ant
1	10.779M	36.3	+9.7 +0.0	+0.3	+0.1	+0.7	+0.0	47.1	50.0	-2.9	White
2	4.479M	32.2	+9.7 +0.2	+0.2	+0.1	+0.6	+0.0	43.0	46.0	-3.0	White
3	24.210M	34.9	+9.6 +0.2	+0.4	+0.1	+1.0	+0.0	46.2	50.0	-3.8	White
4	4.101M	31.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	42.0	46.0	-4.0	White
5	4.573M	31.0	+9.7 +0.2	+0.2	+0.1	+0.7	+0.0	41.9	46.0	-4.1	White
6	11.256M	34.8	+9.7 +0.1	+0.3	+0.1	+0.7	+0.0	45.7	50.0	-4.3	White
7	11.364M	34.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	45.7	50.0	-4.3	White
8	12.103M	34.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	45.7	50.0	-4.3	White
9	3.021M	30.9	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	41.4	46.0	-4.6	White
10	3.046M	30.8	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	41.3	46.0	-4.7	White
11	4.909M	30.5	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	41.2	46.0	-4.8	White
12	9.734M	34.3	+9.6 +0.0	+0.3	+0.1	+0.8	+0.0	45.1	50.0	-4.9	White
13	10.661M	34.3	+9.7 +0.0	+0.3	+0.1	+0.7	+0.0	45.1	50.0	-4.9	White
14	10.193M	34.1	+9.7 +0.0	+0.3	+0.1	+0.8	+0.0	45.0	50.0	-5.0	White

Page 19 of 91 Report No.: 95673-6A



15	4.888M	29.9	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	40.6	46.0	-5.4	White
16	10.310M	33.6	+9.7	+0.3	+0.1	+0.8	+0.0	44.5	50.0	-5.5	White
17	207.0601-	21.0	+0.0	+0.1	100	10.6	100	42.2	40.1	<i>5</i> 0	XX71. 14 -
17	387.069k	31.9	+9.6 +0.0	+0.1	+0.0	+0.6	+0.0	42.2	48.1	-5.9	White
18	4.224M	29.5	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	40.1	46.0	-5.9	White
19	426.338k	31.0	+9.6	+0.1	+0.0	+0.6	+0.0	41.3	47.3	-6.0	White
20	0.60714	22.1	+0.0	.0.2	. 0.1			12.0	50.0		3371 1
20	9.607M	33.1	+9.6 +0.0	+0.3	+0.1	+0.8	+0.0	43.9	50.0	-6.1	White
21	9.139M	32.5	+9.6	+0.3	+0.1	+0.8	+0.0	43.4	50.0	-6.6	White
			+0.1								
22	307.804k	32.7	+9.6	+0.1	+0.0	+0.6	+0.0	43.2	50.0	-6.8	White
			+0.2								
23	8.562M	32.2	+9.7	+0.3	+0.1	+0.7	+0.0	43.1	50.0	-6.9	White
			+0.1								
24	347.800k	31.4	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	41.8	49.0	-7.2	White
25	5.274M	32.0	+9.6	+0.2	+0.1	+0.7	+0.0	42.8	50.0	-7.2	White
			+0.2								
26	10.887M	32.0	+9.7	+0.3	+0.1	+0.7	+0.0	42.8	50.0	-7.2	White
			+0.0								
27	10.076M	31.8	+9.7 +0.0	+0.3	+0.1	+0.8	+0.0	42.7	50.0	-7.3	White
28	8.679M	31.7	+9.7	+0.3	+0.1	+0.7	+0.0	42.6	50.0	-7.4	White
26	0.079W	31.7	+0.1	10.5	10.1	10.7	10.0	42.0	30.0	-/.4	Willia
29	4.152M	27.9	+9.6	+0.2	+0.1	+0.6	+0.0	38.5	46.0	-7.5	White
2	1.132111	21.5	+0.1	. 0.2	. 0.1	. 0.0	. 0.0	30.3	10.0	7.5	vv inte
30	9.256M	31.6	+9.6	+0.3	+0.1	+0.8	+0.0	42.5	50.0	-7.5	White
	7.22		+0.1		***	• • •	•••			, , ,	,, ===+
31	4.016M	27.8	+9.6	+0.2	+0.1	+0.6	+0.0	38.4	46.0	-7.6	White
			+0.1								
32	8.085M	31.6	+9.6	+0.3	+0.1	+0.7	+0.0	42.4	50.0	-7.6	White
			+0.1								
33	9.031M	31.4	+9.6	+0.3	+0.1	+0.8	+0.0	42.3	50.0	-7.7	White
			+0.1								
34	10.436M	31.4	+9.7	+0.3	+0.1	+0.7	+0.0	42.2	50.0	-7.8	White
	44.0555		+0.0								
35	11.022M	31.3	+9.7	+0.3	+0.1	+0.7	+0.0	42.2	50.0	-7.8	White
26	7.0603.5	21.2	+0.1	10.2			. 0. 0	12.1	50.0	5 0	3371 *-
36	7.968M	31.3	+9.6	+0.3	+0.1	+0.7	+0.0	42.1	50.0	-7.9	White
37	8.445M	31.3	+0.1	+0.3	+0.1	+0.7	+0.0	42.1	50.0	-7.9	White
3/	6.443IVI	31.3	+9.6 +0.1	±0.3	±0.1	±0./	±0.0	42.1	30.0	-1.9	wille
38	13.013M	31.3	+9.6	+0.3	+0.1	+0.7	+0.0	42.1	50.0	-7.9	White
50	15.015111	ر.1ر	+0.1	. 0.3	0.1	. 0.7	.0.0	72,1	50.0	-1.7	** 111tC
39	11.716M	31.2	+9.6	+0.3	+0.1	+0.7	+0.0	42.0	50.0	-8.0	White
	11., 101,1	21.2	+0.1	0.5	V.1	. 0.7	0.0	.2.0	20.0	0.0	11110
40	11.139M	31.0	+9.7	+0.3	+0.1	+0.7	+0.0	41.9	50.0	-8.1	White
			+0.1	-					-		
•											

Page 20 of 91 Report No.: 95673-6A



41	11.490M	31.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	41.9	50.0	-8.1	White
42	463.426k	28.0	+9.6	+0.1	+0.0	+0.6	+0.0	38.4	46.6	-8.2	White
43	5.157M	31.0	+0.1	+0.2	+0.1	+0.7	+0.0	41.8	50.0	-8.2	White
	0.10 / 1.1	51.0	+0.2	٠.ــ	0.1	0.7	0.0		20.0	0.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
44	8.112M	31.0	+9.6	+0.3	+0.1	+0.7	+0.0	41.8	50.0	-8.2	White
4.5	0.05111	20.0	+0.1	+0.2	+0.1	۱0.0	+0.0	41.7	50.0	0.2	XX71. 14 .
45	9.851M	30.9	+9.6 +0.0	+0.3	+0.1	+0.8	+0.0	41.7	50.0	-8.3	White
46	12.418M	30.8	+9.6	+0.3	+0.1	+0.7	+0.0	41.6	50.0	-8.4	White
			+0.1								
47	12.896M	30.7	+9.6	+0.3	+0.1	+0.7	+0.0	41.5	50.0	-8.5	White
48	7 201M	30.7	+0.1	+0.2	+0.1	+0.7	+0.0	41.4	50.0	-8.6	White
40	7.391M	30.7	+9.0 +0.1	+0.2	+0.1	+0.7	+0.0	41.4	50.0	-8.0	white
49	175.452k	35.2	+9.6	+0.1	+0.0	+0.6	+0.0	45.8	54.7	-8.9	White
			+0.3								
50	5.053M	30.2	+9.6	+0.2	+0.1	+0.7	+0.0	41.0	50.0	-9.0	White
51	7.400M	30.1	+0.2	+0.2	+0.1	+0.7	+0.0	40.8	50.0	-9.2	White
51	7.499M	30.1	+9.0 +0.1	+0.2	+0.1	±0.7	+0.0	40.8	30.0	-9.2	white
52	166.726k	35.1	+9.6	+0.1	+0.0	+0.6	+0.0	45.8	55.1	-9.3	White
			+0.4								
53	9.679M	29.7	+9.6	+0.3	+0.1	+0.8	+0.0	40.5	50.0	-9.5	White
54	10.382M	29.7	+0.0	+0.3	+0.1	+0.7	+0.0	40.5	50.0	-9.5	White
34	10.362101	29.1	+0.0	+0.3	+0.1	±0.7	+0.0	40.3	30.0	-9.3	Wille
55	12.544M	29.7	+9.6	+0.3	+0.1	+0.7	+0.0	40.5	50.0	-9.5	White
			+0.1								
56	9.499M	29.6	+9.6	+0.3	+0.1	+0.8	+0.0	40.4	50.0	-9.6	White
57	12.184M	29.6	+0.0	+0.3	+0.1	+0.7	+0.0	40.4	50.0	-9.6	White
37	12.104101	29.0	+0.1	+0.3	+0.1	±0.7	+0.0	40.4	30.0	-9.0	Wille
58	12.292M	29.4	+9.6	+0.3	+0.1	+0.7	+0.0	40.2	50.0	-9.8	White
			+0.1								
59	12.454M	29.4	+9.6	+0.3	+0.1	+0.7	+0.0	40.2	50.0	-9.8	White
60	12.968M	29.4	+0.1	+0.3	+0.1	+0.7	+0.0	40.2	50.0	-9.8	White
00	12.9001	29.4	+0.1	10.3	10.1	10.7	10.0	40.2	30.0	- 2.6	Willie
61	12.247M	29.1	+9.6	+0.3	+0.1	+0.7	+0.0	39.9	50.0	-10.1	White
			+0.1								
62	189.996k	33.2	+9.6	+0.1	+0.0	+0.6	+0.0	43.7	54.0	-10.3	White
63	5.968M	28.3	+0.2	+0.2	+0.1	+0.7	+0.0	39.1	50.0	-10.9	White
05	J.7001VI	20.3	+0.1	10.2	10.1	10.7	10.0	37.1	30.0	-10.7	Willie
64	6.571M	28.1	+9.6	+0.2	+0.1	+0.7	+0.0	38.8	50.0	-11.2	White
			+0.1								
65	13.481M	28.0	+9.6	+0.3	+0.1	+0.7	+0.0	38.8	50.0	-11.2	White
66	13.598M	27.9	+0.1	+0.3	+0.1	+0.7	+0.0	38.7	50.0	-11.3	White
	13.370111	41.9	+0.1	10.5	0.1	10.7	10.0	30.1	50.0	-11.3	VV IIIC
L											

Page 21 of 91 Report No.: 95673-6A



67												
68 416.157k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.0 47.5 -11.5 White 69 449.609k 24.6 +9.6 +0.1 +0.0 +0.6 +0.0 35.0 46.9 -11.9 White 70 152.909k 31.8 +9.7 +0.0 +0.0 +0.6 +0.0 43.7 55.8 -12.1 White 71 405.977k 24.9 +9.6 +0.1 +0.0 +0.6 +0.0 35.2 47.7 -12.5 White 72 28.588M 26.0 +9.6 +0.5 +0.1 +1.1 +0.0 37.5 50.0 -12.5 White 40.1 +0.1 +0.0 +0.6 +0.0 33.3 46.0 -12.7 White 75 9.391M 26.3 +9.6 +0.1 +0.0 +0.6 +0.0 37.2 50.0 -12.8 White 76 13.364M 26.4 +9.6	67	24.258M	27.4		+0.4	+0.1	+1.0	+0.0	38.7	50.0	-11.3	White
69 449.609k 24.6 +9.6 +0.1 +0.0 +0.6 +0.0 35.0 46.9 -11.9 White	68	416.157k	25.7	+9.6	+0.1	+0.0	+0.6	+0.0	36.0	47.5	-11.5	White
+0.1												
1.6	69	449.609k	24.6		+0.1	+0.0	+0.6	+0.0	35.0	46.9	-11.9	White
71	70	152.909k	31.8		+0.0	+0.0	+0.6	+0.0	43.7	55.8	-12.1	White
72 28,588M 26.0 +9.6 +0.5 +0.1 +1.1 +0.0 37.5 50.0 -12.5 White 73 501,968k 22.8 +9.7 +0.1 +0.0 +0.6 +0.0 33.3 46.0 -12.7 White 74 361.617k 25.5 +9.6 +0.1 +0.0 +0.6 +0.0 35.9 48.7 -12.8 White 75 9.391M 26.3 +9.6 +0.3 +0.1 +0.8 +0.0 37.2 50.0 -12.8 White 76 13.364M 26.4 +9.6 +0.3 +0.1 +0.7 +0.0 37.2 50.0 -12.8 White 40.1 17 28.006M 25.7 +9.6 +0.5 +0.1 +1.0 +0.0 37.1 50.0 -12.8 White 78 2.366M 22.6 +9.6 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White <td< td=""><td>71</td><td>405.977k</td><td>24.9</td><td>+9.6</td><td>+0.1</td><td>+0.0</td><td>+0.6</td><td>+0.0</td><td>35.2</td><td>47.7</td><td>-12.5</td><td>White</td></td<>	71	405.977k	24.9	+9.6	+0.1	+0.0	+0.6	+0.0	35.2	47.7	-12.5	White
Ho.2	72	20 50014	26.0		10.5	+0.1	+1-1	+0.0	27.5	50.0	12.5	W/1.:4 a
+0.1	12		26.0		+0.5	+0.1	+1.1	+0.0	37.3	50.0	-12.5	wnite
+0.1	73	501.968k	22.8	+9.7	+0.1	+0.0	+0.6	+0.0	33.3	46.0	-12.7	White
74 361.617k 25.5 +9.6 +0.1 +0.0 +0.6 +0.0 35.9 48.7 -12.8 White 75 9.391M 26.3 +9.6 +0.3 +0.1 +0.8 +0.0 37.2 50.0 -12.8 White 76 13.364M 26.4 +9.6 +0.3 +0.1 +0.7 +0.0 37.2 50.0 -12.8 White 77 28.006M 25.7 +9.6 +0.5 +0.1 +1.0 +0.0 37.1 50.0 -12.9 White 78 2.366M 22.6 +9.6 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 40.1 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 40.1 +0.1 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +				+0.1								
10	74	361.617k	25.5	+9.6	+0.1	+0.0	+0.6	+0.0	35.9	48.7	-12.8	White
75 9.391M 26.3 +9.6 +0.3 +0.1 +0.8 +0.0 37.2 50.0 -12.8 White +0.1												
13.364M	75	9.391M	26.3		+0.3	+0.1	+0.8	+0.0	37.2	50.0	-12.8	White
76 13.364M 26.4 +9.6 +0.3 +0.1 +0.7 +0.0 37.2 50.0 -12.8 White 77 28.006M 25.7 +9.6 +0.5 +0.1 +1.0 +0.0 37.1 50.0 -12.9 White 78 2.366M 22.6 +9.6 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 79 13.247M 26.0 +9.6 +0.3 +0.1 +0.7 +0.0 36.8 50.0 -13.2 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 82 24	'5		_0.5		0.5	V.1	0.0	0.0	J , .2	20.0	12.0	
+0.1 77 28.006M 25.7 +9.6 +0.5 +0.1 +1.0 +0.0 37.1 50.0 -12.9 White 78 2.366M 22.6 +9.6 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 79 13.247M 26.0 +9.6 +0.3 +0.1 +0.7 +0.0 36.8 50.0 -13.2 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White <td< td=""><td>76</td><td>13 364M</td><td>26.4</td><td></td><td>+0.3</td><td>+0.1</td><td>+0.7</td><td>+0.0</td><td>37.2</td><td>50.0</td><td>-12.8</td><td>White</td></td<>	76	13 364M	26.4		+0.3	+0.1	+0.7	+0.0	37.2	50.0	-12.8	White
77 28.006M 25.7 +9.6 +0.5 +0.1 +1.0 +0.0 37.1 50.0 -12.9 White 78 2.366M 22.6 +9.6 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 79 13.247M 26.0 +9.6 +0.3 +0.1 +0.7 +0.0 36.8 50.0 -13.2 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 1	/0	13.304101	20.4		10.5	0.1	10.7	10.0	51.4	50.0	-12.0	VV 1111C
78 2.366M 22.6 +9.6 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 79 13.247M 26.0 +9.6 +0.3 +0.1 +0.7 +0.0 36.8 50.0 -13.2 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 3	77	28 006M	25.7		+0.5	+0 1	+1 0	+0.0	37 1	50.0	_12 0	White
78 2.366M 22.6 +9.6 +0.1 +0.0 +0.6 +0.0 33.0 46.0 -13.0 White 79 13.247M 26.0 +9.6 +0.3 +0.1 +0.7 +0.0 36.8 50.0 -13.2 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 3	//	28.000101	23.1		+0.5	±0.1	⊤1.0	±0.0	37.1	30.0	-12.9	vv iiite
+0.1 +0.1 +0.2 +9.6 +0.3 +0.1 +0.7 +0.0 36.8 50.0 -13.2 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.1 +0.0 +0.6 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 3	70	2 26614	22.6		+Ω 1	100	10.6	10.0	22.0	16.0	12.0	White
79 13.247M 26.0 +9.6 +0.3 +0.1 +0.7 +0.0 36.8 50.0 -13.2 White 80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.4 +0.1 +1.0 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 <td< td=""><td>/8</td><td>2.300NI</td><td>22.0</td><td></td><td>+0.1</td><td>+0.0</td><td>+0.6</td><td>+0.0</td><td>33.0</td><td>40.0</td><td>-13.0</td><td>wnite</td></td<>	/8	2.300NI	22.0		+0.1	+0.0	+0.6	+0.0	33.0	40.0	-13.0	wnite
#0.1 #0.1 #0.1 #0.0 36.6 50.0 -13.4 White 81 15.706M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 457.608k 22.3 +9.6 +0.1		12.2453.5	260						26.0	50.0	12.2	3371 1
80 14.067M 25.8 +9.6 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 <td< td=""><td> 79</td><td>13.247M</td><td>26.0</td><td></td><td>+0.3</td><td>+0.1</td><td>+0.7</td><td>+0.0</td><td>36.8</td><td>50.0</td><td>-13.2</td><td>White</td></td<>	79	13.247M	26.0		+0.3	+0.1	+0.7	+0.0	36.8	50.0	-13.2	White
Ho Ho Ho Ho Ho Ho Ho Ho												
81 15.706M 25.7 +9.7 +0.3 +0.1 +0.7 +0.0 36.6 50.0 -13.4 White 82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White 89 <t< td=""><td>80</td><td>14.067M</td><td>25.8</td><td></td><td>+0.3</td><td>+0.1</td><td>+0.7</td><td>+0.0</td><td>36.6</td><td>50.0</td><td>-13.4</td><td>White</td></t<>	80	14.067M	25.8		+0.3	+0.1	+0.7	+0.0	36.6	50.0	-13.4	White
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82 24.498M 25.3 +9.6 +0.4 +0.1 +1.0 +0.0 36.6 50.0 -13.4 White 83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White 89 <t< td=""><td>81</td><td>15.706M</td><td>25.7</td><td></td><td>+0.3</td><td>+0.1</td><td>+0.7</td><td>+0.0</td><td>36.6</td><td>50.0</td><td>-13.4</td><td>White</td></t<>	81	15.706M	25.7		+0.3	+0.1	+0.7	+0.0	36.6	50.0	-13.4	White
Ho.2 Ho.2 Ho.6 Ho.1 Ho.0 Ho.6 Ho.0 Ho.6				+0.1								
Ho.2 Ho.2 Ho.6 Ho.1 Ho.0 Ho.6 Ho.0 Ho.6	82	24.498M	25.3	+9.6	+0.4	+0.1	+1.0	+0.0	36.6	50.0	-13.4	White
83 321.621k 25.7 +9.6 +0.1 +0.0 +0.6 +0.0 36.2 49.7 -13.5 White 84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White 89 269.262k 26.5 +9.6 +0.5 +0.1 +1.0 +0.0 37.0 51.1 -14.1 White 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8		-							-	-		
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84 15.238M 25.6 +9.7 +0.3 +0.1 +0.7 +0.0 36.5 50.0 -13.5 White 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 <		221.021R	-0.7		J.1	3.0	5.0	0.0	20.2	.,,,	10.0	., 11100
+0.1 85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White +0.2 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White +0.2 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White +0.1 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White +0.2 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White +0.2 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	84	15 238M	25.6		+0.3	+0.1	+0.7	+0.0	36.5	50.0	-13.5	White
85 303.440k 25.9 +9.6 +0.1 +0.0 +0.6 +0.0 36.4 50.1 -13.7 White 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 <	04	13.2301VI	23.0		10.5	0.1	10.7	10.0	50.5	50.0	-13.3	VV IIILC
+0.2 86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White +0.2 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White +0.1 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White +0.2 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White +0.2 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	0.5	202 4401-	25.0		<u></u> ⊥∩ 1	⊥ ∩ ∩	⊥ ∩ <i>4</i>	±0.0	26.4	50.1	12 7	White
86 26.485M 24.6 +9.7 +0.5 +0.1 +1.0 +0.0 36.1 50.0 -13.9 White 87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	83	3U3.44UK	23.9		±0.1	±0.0	±0.6	±0.0	30.4	30.1	-13./	vv mite
+0.2 87 457.608k	0.6	26 49534	24.6		10.5	+0.1	+1.Λ	10.0	26.1	50.0	12.0	W/la:4-
87 457.608k 22.3 +9.6 +0.1 +0.0 +0.6 +0.0 32.7 46.7 -14.0 White 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	86	26.485M	24.6		+0.5	+0.1	+1.0	+0.0	36.1	50.0	-13.9	White
+0.1 88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White +0.2 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White +0.2 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White		155 5001	22.2		. 6 1			. 0. 0	22 -	46 =	110	****
88 28.123M 24.6 +9.6 +0.5 +0.1 +1.0 +0.0 36.0 50.0 -14.0 White 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	87	457.608k	22.3		+0.1	+0.0	+0.6	+0.0	32.7	46.7	-14.0	White
+0.2 89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White +0.2 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White												
89 269.262k 26.5 +9.6 +0.1 +0.0 +0.6 +0.0 37.0 51.1 -14.1 White 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	88	28.123M	24.6		+0.5	+0.1	+1.0	+0.0	36.0	50.0	-14.0	White
+0.2 90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White												
90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	89	269.262k	26.5	+9.6	+0.1	+0.0	+0.6	+0.0	37.0	51.1	-14.1	White
90 16.292M 24.9 +9.7 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White				+0.2								
+0.1 91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	90	16.292M	24.9		+0.3	+0.1	+0.7	+0.0	35.8	50.0	-14.2	White
91 14.184M 25.0 +9.6 +0.3 +0.1 +0.7 +0.0 35.8 50.0 -14.2 White +0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White											•	
+0.1 92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	91	14.184M	25.0		+0.3	+0 1	+0.7	+0.0	35 8	50.0	-14 2	White
92 28.493M 24.4 +9.6 +0.5 +0.1 +1.0 +0.0 35.8 50.0 -14.2 White	'	1 1.10 1111	25.0		. 0.5		3.7	. 0.0	55.0	20.0	11.2	,, 11100
	92	28 493M	24.4		+0.5	+0.1	+1.0	+0.0	35 8	50.0	_14 2	White
10.2] 22	∠0. 1 931 V I	∠+.+		10.5	0.1	11.0	10.0	55.0	50.0	-1→.∠	vv IIItE
				10.2								

Page 22 of 91 Report No.: 95673-6A



93	27.540M	24.4	+9.6 +0.2	+0.5	+0.1	+1.0	+0.0	35.8	50.0	-14.2	White
94	455.427k	22.0	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.4	46.8	-14.4	White
95	26.951M	24.2	+9.6	+0.5	+0.1	+1.0	+0.0	35.6	50.0	-14.4	White
			+0.2								
96	27.417M	23.9	+9.6 +0.2	+0.5	+0.1	+1.0	+0.0	35.3	50.0	-14.7	White
97	27.657M	23.8	+9.6 +0.2	+0.5	+0.1	+1.0	+0.0	35.2	50.0	-14.8	White
98	476.515k	21.2	+9.6	+0.1	+0.0	+0.6	+0.0	31.6	46.4	-14.8	White
- 00	2.52 0001	22.6	+0.1	. 0. 1		.0.6	. 0. 0	240	40.0	140	XX 71
99	352.890k	23.6	+9.6	+0.1	+0.0	+0.6	+0.0	34.0	48.9	-14.9	White
100	16.175M	24.2	+0.1	+0.3	+0.1	+0.7	+0.0	35.1	50.0	-14.9	White
100	10.1/3WI	24.2	+9.7	+0.3	+0.1	±0.7	+0.0	33.1	30.0	-14.9	willte
101	24.107M	23.6	+9.6	+0.4	+0.1	+1.1	+0.0	35.0	50.0	-15.0	White
101	∠¬.10/1V1	23.0	+0.2	· U. T	0.1	1.1	10.0	55.0	50.0	-13.0	VV IIIC
102	28.712M	23.4	+9.6	+0.5	+0.1	+1.1	+0.0	34.9	50.0	-15.1	White
102	20.,12111	<i>2</i> J.⊤	+0.2	. 0.3	. 0.1	. 1.1	. 0.0	5 (.)	20.0	13.1	***************************************
103	538.328k	20.5	+9.5	+0.1	+0.0	+0.6	+0.0	30.8	46.0	-15.2	White
100	000.02011	20.0	+0.1	0.1	0.0	0.0	0.0	20.0		10.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
104	13.716M	24.0	+9.6	+0.3	+0.1	+0.7	+0.0	34.8	50.0	-15.2	White
			+0.1								
105	14.652M	24.0	+9.6	+0.3	+0.1	+0.7	+0.0	34.8	50.0	-15.2	White
105			+0.1						-		
106	15.112M	23.7	+9.7	+0.3	+0.1	+0.7	+0.0	34.6	50.0	-15.4	White
107	15 500M	22.7	+0.1	+0.3	+0.1	+0.7	+0.0	34.6	50.0	15 /	White
107	15.589M	23.7	+9.7 +0.1	+0.3	+0.1	+0.7	+0.0	34.0	50.0	-15.4	White
108	29.061M	22.9	+9.6	+0.5	+0.1	+1.1	+0.0	34.4	50.0	-15.6	White
108	29.001WI	22.9	+0.2	+0.3	±0.1	⊤1.1	+0.0	34.4	30.0	-13.0	Wille
109	14.535M	23.5	+9.6	+0.3	+0.1	+0.7	+0.0	34.3	50.0	-15.7	White
10)	1 1.555111	<i>د.د</i>	+0.1	. 0.3	. 0.1	. 0.7	. 0.0	57.5	50.0	15.7	,, 11160
110	20.517M	22.8	+9.7	+0.4	+0.1	+1.1	+0.0	34.3	50.0	-15.7	White
	_0.01/111		+0.2	J. I	J.1	1	0.0	2 1.5	2 3.0	20.7	
111	21.094M	22.7	+9.7	+0.4	+0.1	+1.1	+0.0	34.2	50.0	-15.8	White
			+0.2					- -			
112	293.987k	24.1	+9.6	+0.1	+0.0	+0.6	+0.0	34.6	50.4	-15.8	White
L			+0.2								
113	26.834M	22.7	+9.7	+0.5	+0.1	+1.0	+0.0	34.2	50.0	-15.8	White
			+0.2								
114	24.032M	22.8	+9.6	+0.4	+0.1	+1.1	+0.0	34.2	50.0	-15.8	White
			+0.2								
115	360.163k	22.4	+9.6	+0.1	+0.0	+0.6	+0.0	32.8	48.7	-15.9	White
115	10.0503.5	22.2	+0.1			=	. 0. 0	24.5	7 0 0	1-0	****
116	13.950M	23.3	+9.6	+0.3	+0.1	+0.7	+0.0	34.1	50.0	-15.9	White
117	26.0263.5	22.6	+0.1	10.4	10.1	.10	+0.0	240	50.0	1.6.0	33.71 **
117	26.026M	22.6	+9.7	+0.4	+0.1	+1.0	+0.0	34.0	50.0	-16.0	White
110	14 12014	22.1	+0.2	10.2	+0.1	10.7	10.0	22.0	50.0	1.6 1	Wilsian
118	14.139M	23.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	33.9	50.0	-16.1	White
			+0.1								

Page 23 of 91 Report No.: 95673-6A



119	480.152k	19.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	30.2	46.3	-16.1	White
120	28.410M	22.5	+9.6	+0.5	+0.1	+1.0	+0.0	33.9	50.0	-16.1	White
101	20.17014	22.4	+0.2	.0.5	.0.1	. 1 1	. 0. 0	22.0	50.0	161	XX 71
121	29.178M	22.4	+9.6 +0.2	+0.5	+0.1	+1.1	+0.0	33.9	50.0	-16.1	White
122	28.828M	22.4	+9.6	+0.5	+0.1	+1.1	+0.0	33.9	50.0	-16.1	White
122	20.020111	22.7	+0.2	10.5	. 0.1	. 1.1	10.0	33.7	30.0	-10.1	Willie
123	16.878M	22.8	+9.7	+0.3	+0.1	+0.8	+0.0	33.8	50.0	-16.2	White
			+0.1								
124	16.049M	22.9	+9.7	+0.3	+0.1	+0.7	+0.0	33.8	50.0	-16.2	White
			+0.1								
125	21.220M	22.3	+9.7	+0.4	+0.1	+1.1	+0.0	33.8	50.0	-16.2	White
126	25.55.0.6	22.4	+0.2	. 0. 7	. 0. 1	. 1 0	. 0. 0	22.0	5 0.0	160	TT 71 1.
126	27.574M	22.4	+9.6	+0.5	+0.1	+1.0	+0.0	33.8	50.0	-16.2	White
127	26.27514	22.2	+0.2	+0.5	+0.1	+1.0	100	33.8	50.0	16.2	Wilsian
127	26.375M	22.3	+9.7 +0.2	+0.5	+0.1	+1.0	+0.0	33.8	30.0	-16.2	White
128	14.706M	22.9	+9.6	+0.3	+0.1	+0.7	+0.0	33.7	50.0	-16.3	White
120	14.700W	22.9	+0.1	10.5	10.1	10.7	10.0	33.1	30.0	-10.5	Willia
129	29.418M	22.2	+9.6	+0.5	+0.1	+1.1	+0.0	33.7	50.0	-16.3	White
12)	29.110111	22.2	+0.2	. 0.2	0.1		0.0	33.7	20.0	10.5	VV IIICO
130	29.767M	22.1	+9.6	+0.5	+0.1	+1.2	+0.0	33.7	50.0	-16.3	White
			+0.2								
131	23.902M	22.1	+9.7	+0.4	+0.1	+1.1	+0.0	33.6	50.0	-16.4	White
			+0.2								
132	16.752M	22.6	+9.7	+0.3	+0.1	+0.8	+0.0	33.6	50.0	-16.4	White
			+0.1								
133	27.314M	22.2	+9.6	+0.5	+0.1	+1.0	+0.0	33.6	50.0	-16.4	White
124	20.05214	22.1	+0.2	10.5	+0.1	.1.1	100	22.6	50.0	1.6.4	XX71. 14 .
134	28.952M	22.1	+9.6 +0.2	+0.5	+0.1	+1.1	+0.0	33.6	50.0	-16.4	White
135	28.328M	22.2	+9.6	+0.5	+0.1	+1.0	+0.0	33.6	50.0	-16.4	White
133	20.320IVI	22.2	+0.2	10.5	10.1	11.0	10.0	33.0	30.0	-10.4	Willia
136	20.040M	22.1	+9.6	+0.4	+0.1	+1.1	+0.0	33.5	50.0	-16.5	White
150	20.0 .01.1		+0.2	0	0.1		0.0	22.0	20.0	10.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
137	24.977M	22.2	+9.6	+0.4	+0.1	+1.0	+0.0	33.5	50.0	-16.5	White
			+0.2								
138	26.601M	22.0	+9.7	+0.5	+0.1	+1.0	+0.0	33.5	50.0	-16.5	White
			+0.2								
139	20.959M	21.9	+9.7	+0.4	+0.1	+1.1	+0.0	33.4	50.0	-16.6	White
1.10	10.022.5	21.0	+0.2				. 0 . 0	22.2	7 0 0	1	TT 71 *:
140	19.923M	21.9	+9.6	+0.4	+0.1	+1.1	+0.0	33.3	50.0	-16.7	White
1.4.1	28.239M	21.9	+0.2	+0.5	+0.1	+1.0	+0.0	33.3	50.0	-16.7	White
141	28.239IVI	21.9	+9.6 +0.2	±0.5	±0.1	+1.0	±0.0	33.3	30.0	-10./	wille
142	2.093M	18.8	+9.6	+0.1	+0.0	+0.6	+0.0	29.2	46.0	-16.8	White
172	2.0731 V 1	10.0	+0.1	0.1	. 0.0	. 0.0	.0.0	27.2	70.0	10.0	** 11160
143	15.004M	22.4	+9.6	+0.3	+0.1	+0.7	+0.0	33.2	50.0	-16.8	White
1.5			+0.1	0.5	0.1	···	0.0		20.0	20.0	
144	483.060k	19.0	+9.6	+0.1	+0.0	+0.6	+0.0	29.4	46.3	-16.9	White
			+0.1								

Page 24 of 91 Report No.: 95673-6A



145	392.887k	20.8	+9.6 +0.0	+0.1	+0.0	+0.6	+0.0	31.1	48.0	-16.9	White
146	20.625M	21.6	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	33.1	50.0	-16.9	White
147	14.770M	22.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	33.1	50.0	-16.9	White
148	284.533k	23.2	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	33.7	50.7	-17.0	White
149	17.463M	21.9	+9.7 +0.1	+0.4	+0.1	+0.8	+0.0	33.0	50.0	-17.0	White
150	16.625M	21.8	+9.7 +0.1	+0.3	+0.1	+0.8	+0.0	32.8	50.0	-17.2	White
151	25.786M	21.4	+9.7 +0.2	+0.4	+0.1	+1.0	+0.0	32.8	50.0	-17.2	White
152	25.896M	21.4	+9.7 +0.2	+0.4	+0.1	+1.0	+0.0	32.8	50.0	-17.2	White
153	491.787k	18.4	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	28.8	46.1	-17.3	White
154	24.834M	21.4	+9.6 +0.2	+0.4	+0.1	+1.0	+0.0	32.7	50.0	-17.3	White
155	517.239k	18.0	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	28.5	46.0	-17.5	White
156	18.049M	21.4	+9.6 +0.1	+0.4	+0.1	+0.9	+0.0	32.5	50.0	-17.5	White
157	29.664M	21.0	+9.6 +0.2	+0.5	+0.1	+1.1	+0.0	32.5	50.0	-17.5	White
158	20.400M	20.8	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	32.3	50.0	-17.7	White
159	316.530k	21.5	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.0	49.8	-17.8	White
160	23.792M	20.7	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	32.2	50.0	-17.8	White
161	24.614M	20.8	+9.6 +0.2	+0.4	+0.1	+1.0	+0.0	32.1	50.0	-17.9	White
162	487.424k	17.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	28.2	46.2	-18.0	White
163	29.527M	20.4	+9.6 +0.2	+0.5	+0.1	+1.1	+0.0	31.9	50.0	-18.1	White
164	29.897M	20.2	+9.6 +0.2	+0.5	+0.1	+1.2	+0.0	31.8	50.0	-18.2	White
165	510.694k	17.1	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	27.6	46.0	-18.4	White
166	291.805k	21.5	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.0	50.5	-18.5	White
167	19.337M	20.1	+9.6 +0.2	+0.4	+0.1	+1.1	+0.0	31.5	50.0	-18.5	White
168	19.571M	20.0	+9.6 +0.2	+0.4	+0.1	+1.1	+0.0	31.4	50.0	-18.6	White
169	618.321k	16.8	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	27.3	46.0	-18.7	White
170	19.806M	19.9	+9.6 +0.2	+0.4	+0.1	+1.1	+0.0	31.3	50.0	-18.7	White
<u> </u>											

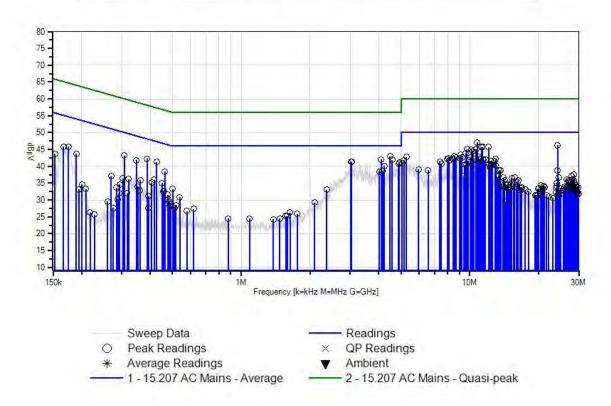
Page 25 of 91 Report No.: 95673-6A



171	21.679M	19.8	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	31.3	50.0	-18.7	White
172	24.559M	19.9	+9.6 +0.2	+0.4	+0.1	+1.0	+0.0	31.2	50.0	-18.8	White
173	200.904k	24.1	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	34.6	53.6	-19.0	White
174	22.148M	19.4	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	30.9	50.0	-19.1	White
175	579.052k	16.3	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	26.7	46.0	-19.3	White
176	23.094M	19.0	+9.7 +0.2	+0.4	+0.1	+1.2	+0.0	30.6	50.0	-19.4	White
177	1.634M	15.8	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	26.3	46.0	-19.7	White
178	208.904k	22.7	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	33.2	53.2	-20.0	White
179	1.758M	15.4	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	25.8	46.0	-20.2	White
180	391.432k	17.4	+9.6 +0.0	+0.1	+0.0	+0.6	+0.0	27.7	48.0	-20.3	White
181	288.896k	19.7	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	30.2	50.6	-20.4	White
182	14.418M	18.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	29.6	50.0	-20.4	White
183	194.360k	22.6	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	33.1	53.8	-20.7	White
184	1.566M	14.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	25.2	46.0	-20.8	White
185	1.587M	14.7	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	25.2	46.0	-20.8	White
186	877.205k	14.0	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	24.5	46.0	-21.5	White
187	1.086M	14.1	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	24.5	46.0	-21.5	White
188	1.477M	14.1	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	24.5	46.0	-21.5	White
189	1.383M	13.9	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	24.3	46.0	-21.7	White
190	259.808k	19.0	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	29.5	51.4	-21.9	White
191	275.807k	17.2	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	27.7	50.9	-23.2	White
192	218.357k	15.8	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	26.3	52.9	-26.6	White
193	227.811k	15.1	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	25.6	52.5	-26.9	White



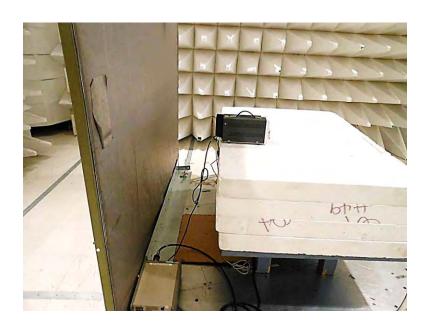
CKC Laboratories, Inc. Date: 5/9/2014 Time: 10:47:30 AM Enlighted, Inc WO#: 95673 Test Lead: White 120V 60Hz Sequence#: 2





Test Setup Photos







15.31(e) Voltage Variations

Test Conditions / Setup

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

Customer: Enlighted, Inc.

Specification: 15.31e

Work Order #: 95673 Date: 5/9/2014
Test Type: Radiated Scan Time: 14:32:57
Equipment: Sensor Sequence#: 5

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

	- 050 = q 000	P				
	ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
	T2	AN03302	Cable	32026-29094K-	3/24/2014	3/24/2016
				29094K-72TC		
	Т3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
Ī		AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1	

Support Devices:

FF			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 29 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Firmware Used: Version 2.6.2

Application: PuTTy Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency = 2.4GHz Band

RF Output t= 0dBm Gain of the antenna = 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits next to it. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by RS 232 cable. The EUT is set continuously transmitting

15.31(e). Adjusted the DC voltage: +/- 15% of the manufacturer declared nominal rated supply voltage of 12VDC to 24VDC (i.e., 10.2VDC and 27.6VDC), the Fundamental power level remains unchanged

Page 30 of 91 Report No.: 95673-6A



Test Setup Photos







15.247(a)(2) Occupied Bandwidth

Test Conditions / Setup

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

Customer: Enlighted, Inc.
Specification: OBW Set up

Work Order #: 95673 Date: 5/9/2014
Test Type: Radiated Scan Time: 14:32:57
Equipment: Sensor Sequence#: 5

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI	3115	1/23/2013	1/23/2015
		C63.5			
T2	AN03302	Cable	32026-29094K-	3/24/2014	3/24/2016
			29094K-72TC		
Т3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1	

Support Devices:

FF			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 32 of 91 Report No.: 95673-6A



Test Conditions / Notes:

OBW Set up

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

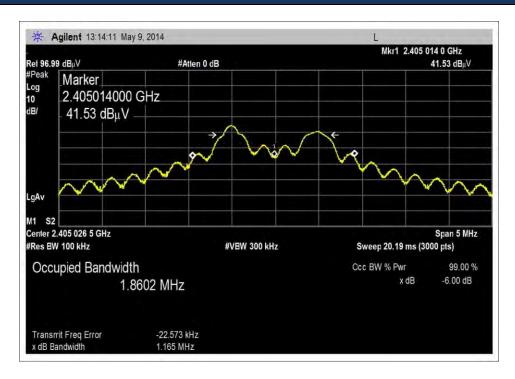
Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits next to it. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

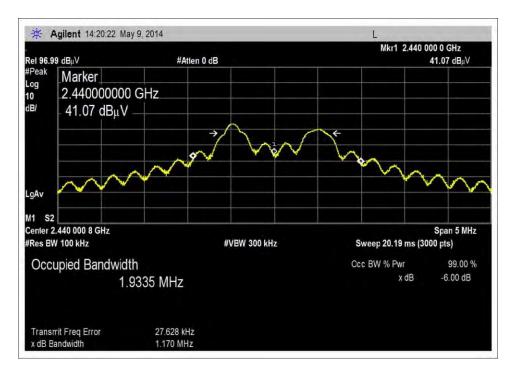
Test Data



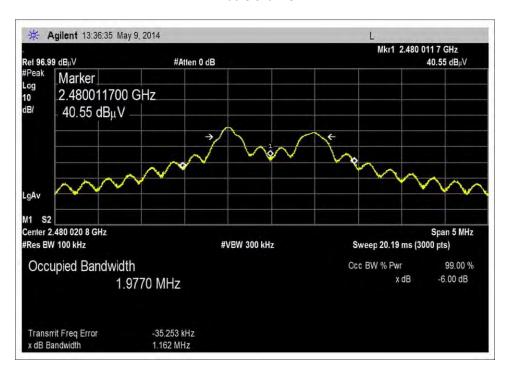
Low Channel

Page 33 of 91 Report No.: 95673-6A





Middle Channel



High Channel



Test Setup Photos





Page 35 of 91 Report No.: 95673-6A



15.247(b)(3) RF Power Output

Test Conditions / Setup

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 #:
 95673
 Date: 5/9/2014

 Test Type:
 Radiated Scan
 Time: 14:32:57

Equipment: Sensor Sequence#: 5

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI	3115	1/23/2013	1/23/2015
		C63.5			
T2	AN03302	Cable	32026-29094K-	3/24/2014	3/24/2016
			29094K-72TC		
Т3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1	

Support Devices:

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 36 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Fundamental of the EUT

RBW=3MHz VBW=8MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits next to it. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy" the EUT is connected to the lanton

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

Ext Attn: 0 dB

	_	_					_				
Measi	irement Data:	Re	eading list	ted by ma	ırgin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m \\$	$dB\mu V/m \\$	dB	Ant
1	2404.534M	63.0	+28.6	+1.2	+2.7		+0.0	95.5	125.2	-29.7	Horiz
									Low Chan	nel	
2	2439.542M	62.5	+28.7	+1.2	+2.7		+0.0	95.1	125.2	-30.1	Horiz
									Middle Ch	annel	
3	2479.345M	61.1	+28.9	+1.2	+2.7		+0.0	93.9	125.2	-31.3	Horiz
									High Chan	nel	
4	2404.534M	60.1	+28.6	+1.2	+2.7		+0.0	92.6	125.2	-32.6	Vert
									Low Chan	nel	
5	2439.542M	58.7	+28.7	+1.2	+2.7		+0.0	91.3	125.2	-33.9	Vert
									Middle Ch	annel	
6	2479.345M	58.0	+28.9	+1.2	+2.7		+0.0	90.8	125.2	-34.4	Vert
									High Chan	nel	

Page 37 of 91 Report No.: 95673-6A



Convert equivalent electric field strength to the resultant power level

Frequency (MHz)	Measured Power in Watts	Power Limit in Watts	Pass/Fail
2404.534			
Low Channel	1.0644E-03	1.00	Pass
(Horizontal)			
2404.534			
Low Channel	5.4591E-04	1.00	Pass
(Vertical)			
2439.542			
Middle Channel	9.7078E-04	1.00	Pass
(Horizontal)			
2439542			
Middle Channel	4.0469E-04	1.00	Pass
(Vertical)			
2479.345			
High Channel	7.1965E-04	1.00	Pass
(Horizontal)			
2479.345			
High Channel	3.6068E-04	1.00	Pass
(Vertical)			

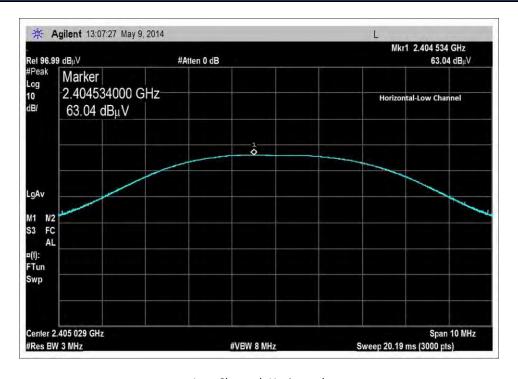
A formula converts Radiated Method to Conducted Method

dBm (conducted power) = dBuV/m +20*LOG D -104.77 - Gain (dBi)

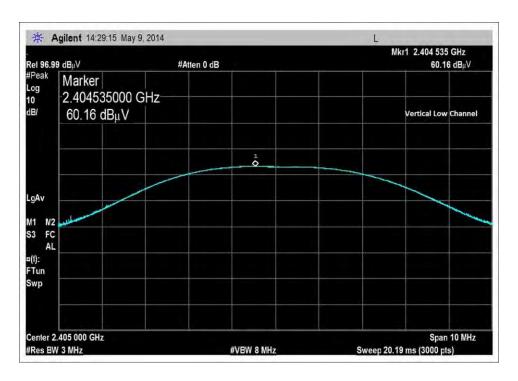
Page 38 of 91 Report No.: 95673-6A



Test Data

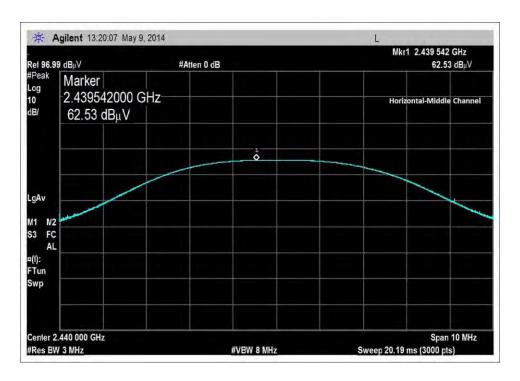


Low Channel, Horizontal

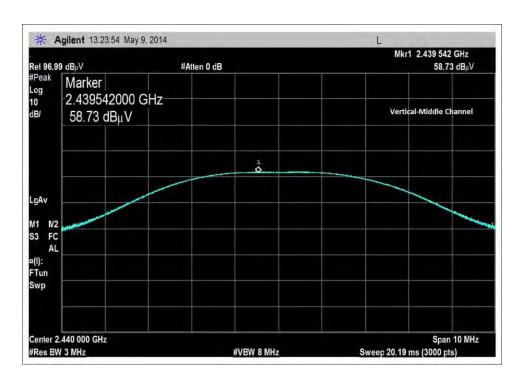


Low Channel, Vertical



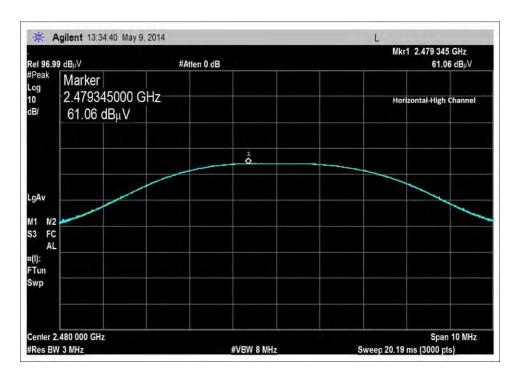


Middle Channel, Horizontal

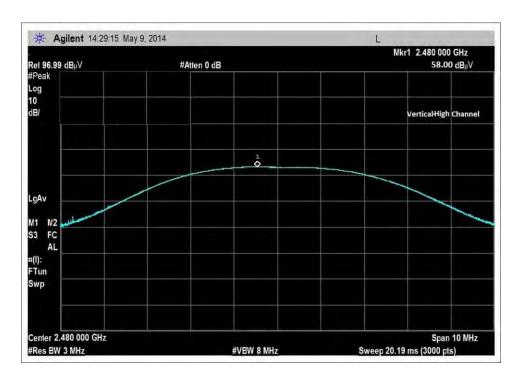


Middle Channel, Vertical





High Channel, Horizontal



High Channel, Vertical



Test Setup Photos







15.247(d) Field Strength of Spurious Emissions and Band Edge

Test Conditions / Setup

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 #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 16:51:10
Equipment: Sensor Sequence#: 51

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015

Equipment Under Test (* = EUT):

1 1	-) -			
Function	Manufacturer	Model #	S/N	
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1	

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 43 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 9kHz to 30MHz

RBW= VBW=200Hz from 9kHz to 150kHz RBW=VBW=9kHz from 150kHz to 30MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously receiving.

Note: Low Channel

NO EMISSION HAS BEEN FOUND

Page 44 of 91 Report No.: 95673-6A



Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 14:12:17
Equipment: Sensor Sequence#: 39

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
Т3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	9/3/2013	9/3/2015
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 30MHz to 1000MHz

RBW= VBW=120kHz Firmware Used: Version 2.6.2

Application: PuTTy Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

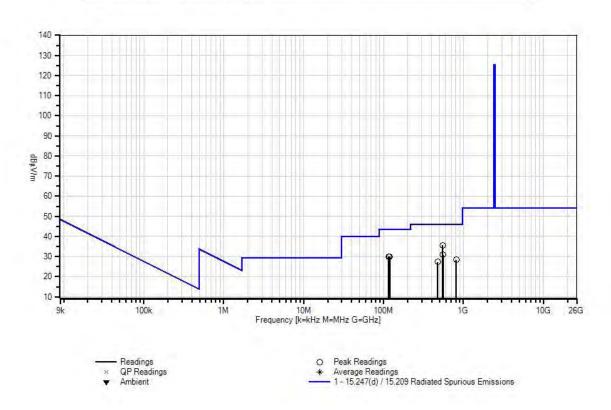
Note: Low Channel

Page 45 of 91 Report No.: 95673-6A



Measur	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	549.401M	39.3	-26.9	+19.2	+2.5	+0.8	+0.0	35.6	46.0	-10.4	Vert
			+0.7								
2	119.852M	44.0	-27.0	+11.3	+1.0	+0.3	+0.0	29.9	43.5	-13.6	Vert
			+0.3								
3	115.168M	43.9	-26.9	+11.3	+1.0	+0.3	+0.0	29.9	43.5	-13.6	Vert
			+0.3								
4	552.885M	34.6	-26.9	+19.2	+2.5	+0.8	+0.0	30.9	46.0	-15.1	Horiz
			+0.7								
5	814.386M	28.2	-26.8	+21.7	+3.2	+1.1	+0.0	28.3	46.0	-17.7	Horiz
			+0.9								
6	475.287M	33.2	-26.9	+17.4	+2.3	+0.8	+0.0	27.4	46.0	-18.6	Horiz
			+0.6								

CKC Laboratories, Inc. Date: 5/12/2014 Time: 14:12:17 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters. Sequence#: 39





Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

 Work Order #:
 95673
 Date:
 5/9/2014

 Test Type:
 Radiated Scan
 Time:
 15:48:47

Equipment: Sensor Sequence#: 9

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b S/N: ENG 1

Test Equipment:

I est Equi	pmem.				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI	3115	1/23/2013	1/23/2015
		C63.5			
T2	AN03302	Cable	32026-29094K-	3/24/2014	3/24/2016
			29094K-72TC		
Т3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-	4/11/2013	4/11/2015
			00101800-30-10P		
T5	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T6	AN03309	High Pass Filter	11SH10-	4/2/2014	4/2/2016
			3000/T10000-		
			O/O		

Equipment Under Test (* = EUT):

Equipment Chaci I	Equipment Charles (= Ec.1).								
Function	Manufacturer	Model #	S/N						
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1						

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 47 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 1000MHz to 12000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

Note: Low Channel

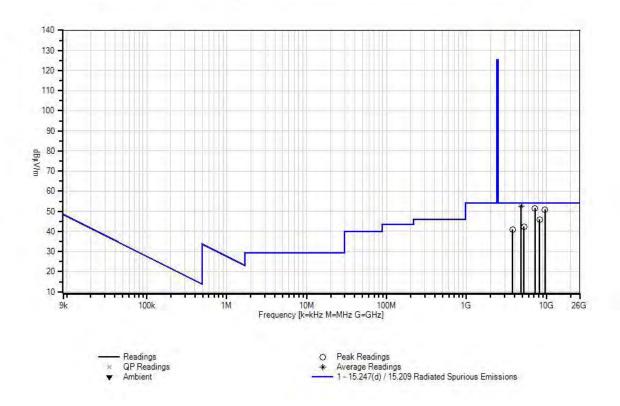
Ext Attn: 0 dB

Measurement Dat	ta: R	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters	1	
# Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
		T5	T6							
MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1 4810.809N	M 70.3	+33.3	+1.7	+3.8	-58.3	+0.0	52.6	54.0	-1.4	Vert
Ave		+1.6	+0.2							
^ 4810.809N	M 76.5	+33.3	+1.7	+3.8	-58.3	+0.0	58.8	54.0	+4.8	Vert
		+1.6	+0.2							
3 7216.212N	M 65.3	+36.1	+2.0	+5.3	-59.3	+0.0	51.5	54.0	-2.5	Horiz
		+1.9	+0.2							
4 9621.615N	M 58.6	+38.7	+2.4	+6.2	-57.4	+0.0	50.9	54.0	-3.1	Vert
		+2.2	+0.2							
5 8210.205N	M 55.5	+37.0	+2.2	+5.6	-57.2	+0.0	45.9	54.0	-8.1	Vert
		+2.5	+0.3							
6 5231.229N	M 57.8	+34.3	+1.7	+3.9	-57.2	+0.0	42.3	54.0	-11.7	Horiz
		+1.6	+0.2							
7 3776.776N	M 61.4	+32.4	+1.5	+3.2	-59.3	+0.0	40.9	54.0	-13.1	Horiz
		+1.4	+0.3							

Page 48 of 91 Report No.: 95673-6A



CKC Laboratories, Inc. Date: 5/9/2014 Time: 15:48:47 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters. Sequence#: 9





Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 10:01:12
Equipment: Sensor Sequence#: 21

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

Test Equip					
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03143	Cable	32022-29094K-	8/2/2013	8/2/2015
			144TC		
T2	ANP00928	Cable	various	1/23/2014	1/23/2016
Т3	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-	Active Horn Antenna	AMFW-5F-	2/21/2013	2/21/2015
	AN02693-		18002650-20-10P		
	20130221				

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 12000MHz to 18000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

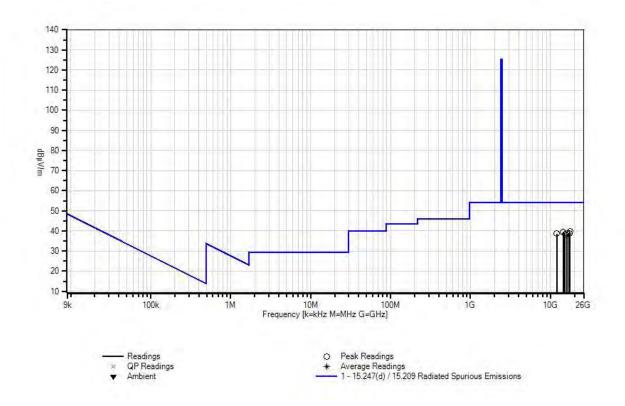
Note: Low Channel

Page 50 of 91 Report No.: 95673-6A



Measu	rement Data:	Re	eading list	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	17602.000	43.1	+6.5	+0.7	+3.2	-13.8	+0.0	39.7	54.0	-14.3	Vert
	M										
2	14483.481	45.0	+6.0	+0.8	+2.9	-15.4	+0.0	39.3	54.0	-14.7	Vert
	M										
3	12023.023	44.9	+5.3	+0.9	+2.4	-14.8	+0.0	38.7	54.0	-15.3	Vert
	M										
4	16186.182	45.0	+6.5	+0.7	+3.1	-16.6	+0.0	38.7	54.0	-15.3	Horiz
	M										
5	17091.565	44.0	+6.3	+0.7	+3.0	-15.4	+0.0	38.6	54.0	-15.4	Horiz
	M										
6	15213.210	44.0	+6.0	+0.8	+3.1	-15.5	+0.0	38.4	54.0	-15.6	Horiz
	M										

CKC Laboratories, Inc. Date: 5/12/2014 Time: 10:01:12 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters Sequence#: 21





Customer: **Enlighted, Inc.**

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 13:23:06
Equipment: Sensor Sequence#: 36

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

I cot Equip	711001000				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03143	Cable	32022-29094K- 144TC	8/2/2013	8/2/2015
	1377006107	~ 11		7/5/2010	
T2	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
Т3	AN02694	Horn Antenna-ANSI	AMFW-5F-	2/4/2013	2/4/2015
		C63.5 Antenna	18002650-20-10P		
		Factors (dB)			
T4	ANP00929	Cable	various	1/23/2014	1/23/2016

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Support Edites			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 18000MHz to 25000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

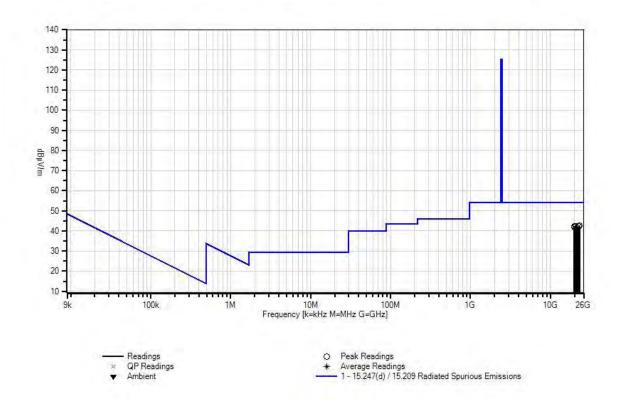
Note: Low Channel

Page 52 of 91 Report No.: 95673-6A



Measu	rement Data:	Re	eading list	ted by ma	ırgin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	23168.163	45.5	+7.6	+4.3	-17.8	+2.9	+0.0	42.5	54.0	-11.5	Vert
	M										
2	_0000.000.	44.8	+7.2	+4.2	-17.0	+3.2	+0.0	42.4	54.0	-11.6	Vert
	M										
3	19795.794	45.1	+7.0	+3.7	-16.7	+3.3	+0.0	42.4	54.0	-11.6	Vert
	M										
4	22458.454	44.7	+7.7	+4.3	-17.5	+3.0	+0.0	42.2	54.0	-11.8	Horiz
	M										
5	20019.017	44.6	+7.1	+3.9	-16.8	+3.3	+0.0	42.1	54.0	-11.9	Horiz
	M										
6	21633.630	44.1	+7.5	+4.2	-17.2	+3.1	+0.0	41.7	54.0	-12.3	Horiz
	M										

CKC Laboratories, Inc. Date: 5/12/2014 Time: 13:23:06 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters Sequence#: 36





Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 17:07:42
Equipment: Sensor Sequence#: 54

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 9kHz to 30MHz

RBW= VBW=200Hz from 9kHz to 150kHz RBW=VBW=9kHz from 150kHz to 30MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously receiving.

Note: Middle Channel

NO EMISSION HAS BEEN FOUND

Page 54 of 91 Report No.: 95673-6A



Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 14:42:42
Equipment: Sensor Sequence#: 42

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b S/N: ENG 1

Test Equipment:

1 csi Eqi	иртет.				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	9/3/2013	9/3/2015
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 30MHz to 1000MHz

RBW= VBW=120kHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

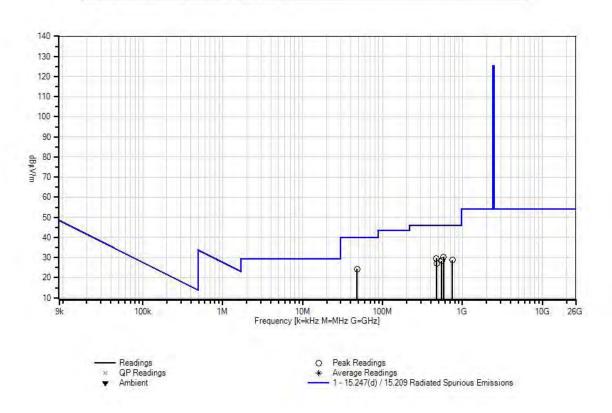
Note: Middle Channel

Page 55 of 91 Report No.: 95673-6A



Measur	rement Data:	Re	eading lis	ted by ma	argin.		Τe	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	578.230M	33.3	-27.0	+19.8	+2.6	+0.9	+0.0	30.3	46.0	-15.7	Vert
			+0.7								
2	48.035M	40.7	-27.0	+9.6	+0.6	+0.2	+0.0	24.3	40.0	-15.7	Vert
			+0.2								
3	471.443M	35.7	-26.9	+17.1	+2.3	+0.8	+0.0	29.6	46.0	-16.4	Vert
			+0.6								
4	749.761M	28.5	-26.9	+22.1	+3.0	+1.2	+0.0	28.7	46.0	-17.3	Horiz
			+0.8								
5	547.119M	32.2	-26.9	+19.1	+2.5	+0.8	+0.0	28.4	46.0	-17.6	Horiz
			+0.7								
6	476.609M	32.6	-26.9	+17.5	+2.3	+0.8	+0.0	26.9	46.0	-19.1	Horiz
			+0.6								

CKC Laboratories, Inc. Date: 5/12/2014 Time: 14:42:42 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters. Sequence#: 42





Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/9/2014
Test Type: Radiated Scan Time: 16:22:25
Equipment: Sensor Sequence#: 12

Equipment: Sensor Sequence#: 12
Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
T2	AN03302	Cable	32026-29094K- 29094K-72TC	3/24/2014	3/24/2016
Т3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-	4/11/2013	4/11/2015
			00101800-30-10P		
T5	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
Т6	AN03309	High Pass Filter	11SH10- 3000/T10000-	4/2/2014	4/2/2016
			O/O		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 57 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 1000MHz to 12000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

Note: Middle Channel

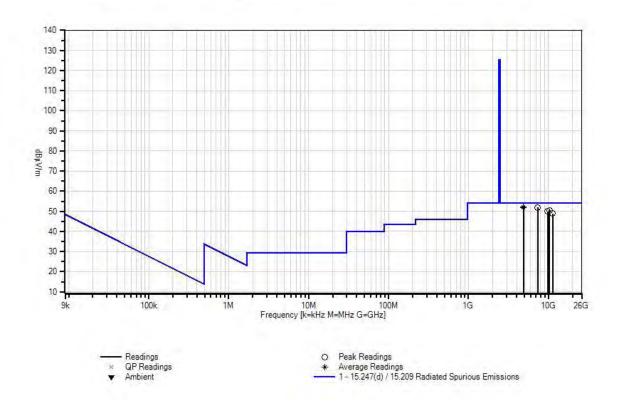
Ext Attn: 0 dB

Measu	irement Data:	Re	eading lis	ted by ma	ırgin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	4878.877M	69.7	+33.4	+1.7	+3.8	-58.2	+0.0	52.2	54.0	-1.8	Vert
	Ave		+1.6	+0.2							
^	4878.877M	76.0	+33.4	+1.7	+3.8	-58.2	+0.0	58.5	54.0	+4.5	Vert
			+1.6	+0.2							
^	4878.877M	75.3	+33.4	+1.7	+3.8	-58.2	+0.0	57.8	54.0	+3.8	Vert
			+1.6	+0.2							
4	4881.097M	69.5	+33.4	+1.7	+3.8	-58.2	+0.0	52.0	54.0	-2.0	Vert
	Ave		+1.6	+0.2					Input		
^	4881.097M	76.3	+33.4	+1.7	+3.8	-58.2	+0.0	58.8	54.0	+4.8	Vert
			+1.6	+0.2					Input		
^	4881.097M	75.2	+33.4	+1.7	+3.8	-58.2	+0.0	57.7	54.0	+3.7	Vert
			+1.6	+0.2							
7	7318.314M	64.9	+36.6	+2.1	+5.4	-59.3	+0.0	51.9	54.0	-2.1	Horiz
			+2.0	+0.2							
8	10250.243	58.0	+39.6	+2.5	+6.2	-58.3	+0.0	50.5	54.0	-3.5	Horiz
	M		+2.3	+0.2							
9	9761.755M	57.3	+39.1	+2.4	+6.3	-57.6	+0.0	49.9	54.0	-4.1	Vert
			+2.2	+0.2							
10	11261.952	55.6	+39.0	+2.6	+6.2	-56.9	+0.0	48.9	54.0	-5.1	Horiz
	M		+2.2	+0.2							

Page 58 of 91 Report No.: 95673-6A



CKC Laboratories, Inc. Date: 5/9/2014 Time: 16:22:25 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters. Sequence#: 12





Customer: **Enlighted, Inc.**

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 10:35:06
Equipment: Sensor Sequence#: 24

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03143	Cable	32022-29094K- 144TC	8/2/2013	8/2/2015
T2	ANP00928	Cable	various	1/23/2014	1/23/2016
Т3	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-	Active Horn Antenna	AMFW-5F-	2/21/2013	2/21/2015
	AN02693-		18002650-20-10P		
	20130221				

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Support Edites			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 12000MHz to 18000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting

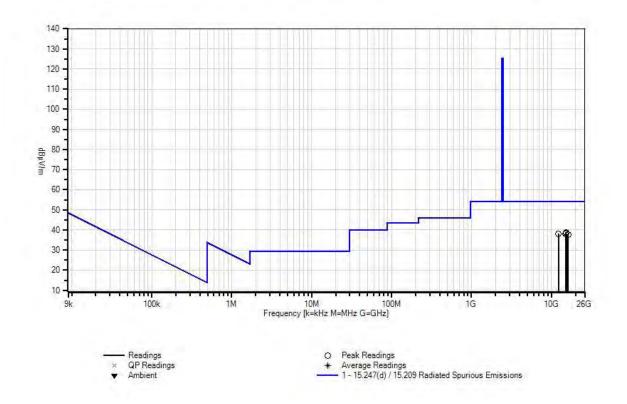
Note: Middle Channel

Page 60 of 91 Report No.: 95673-6A



Measu	rement Data:	Re	eading list	ted by ma	ırgin.		Тє	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	15177.174 M	44.3	+6.1	+0.8	+3.1	-15.5	+0.0	38.8	54.0	-15.2	Horiz
2	15360.357 M	44.1	+6.0	+0.8	+3.1	-15.7	+0.0	38.3	54.0	-15.7	Vert
3	12197.197 M	44.6	+5.5	+0.9	+2.4	-15.3	+0.0	38.1	54.0	-15.9	Vert
4	14996.994 M	43.5	+6.1	+0.8	+3.0	-15.4	+0.0	38.0	54.0	-16.0	Horiz
5	12202.202 M	44.5	+5.5	+0.9	+2.4	-15.3	+0.0	38.0	54.0	-16.0	Vert
6	16146.142 M	44.1	+6.4	+0.7	+3.1	-16.6	+0.0	37.7	54.0	-16.3	Horiz

CKC Laboratories, Inc. Date: 5/12/2014 Time: 10:35:06 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters. Sequence#: 24





Customer: **Enlighted, Inc.**

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 12:01:48
Equipment: Sensor Sequence#: 33

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

Test Equit	P ********				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03143	Cable	32022-29094K-	8/2/2013	8/2/2015
			144TC		
T2	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
Т3	AN02694	Horn Antenna-ANSI	AMFW-5F-	2/4/2013	2/4/2015
	C63.5 Antenna		18002650-20-10P		
		Factors (dB)			
T4	ANP00929	Cable	various	1/23/2014	1/23/2016

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Support Edites			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 18000MHz to 25000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

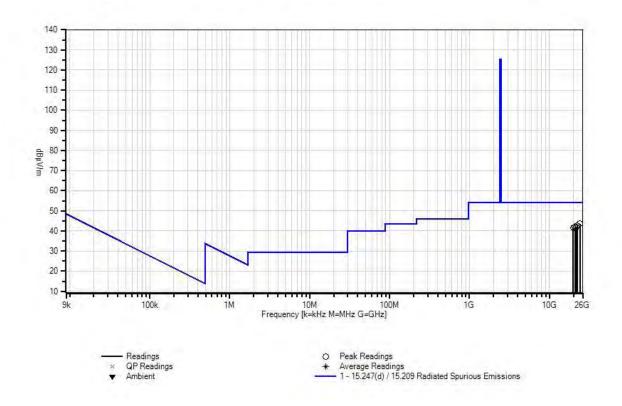
Note: Middle Channel

Page 62 of 91 Report No.: 95673-6A



Measu	rement Data:	Re	eading list	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	23987.982	46.0	+7.7	+4.4	-17.5	+3.0	+0.0	43.6	54.0	-10.4	Vert
	M										
2	22083.079	45.4	+7.3	+4.4	-17.4	+3.0	+0.0	42.7	54.0	-11.3	Vert
	M										
3	20851.849	44.4	+7.2	+4.2	-17.0	+3.2	+0.0	42.0	54.0	-12.0	Horiz
	M										
4	21832.829	44.6	+7.5	+4.2	-17.3	+3.0	+0.0	42.0	54.0	-12.0	Vert
	M										
5	21582.579	44.3	+7.4	+4.2	-17.2	+3.1	+0.0	41.8	54.0	-12.2	Horiz
	M										
6	19869.868	44.3	+7.0	+3.8	-16.7	+3.3	+0.0	41.7	54.0	-12.3	Horiz
	M										

CKC Laboratories, Inc. Date: 5/12/2014 Time: 12:01:48 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters Sequence#: 33





Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 17:16:58
Equipment: Sensor Sequence#: 57

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668 Spectrum Analyzer		E4446A	2/22/2013	2/22/2015
	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 9kHz to 30MHz

RBW= VBW=200Hz from 9kHz to 150kHz RBW=VBW=9kHz from 150kHz to 30MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop

which is outside the chamber by a RS 232 cable. The EUT is set continuously receiving.

Note: High Channel

NO EMISSION HAS BEEN FOUND

Page 64 of 91 Report No.: 95673-6A



Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 15:21:15
Equipment: Sensor Sequence#: 45

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b S/N: ENG 1

Test Equipment:

2000 2290	Pintentt				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
Т3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	9/3/2013	9/3/2015
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 30MHz to 1000MHz

RBW= VBW=120kHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

Note: High Channel

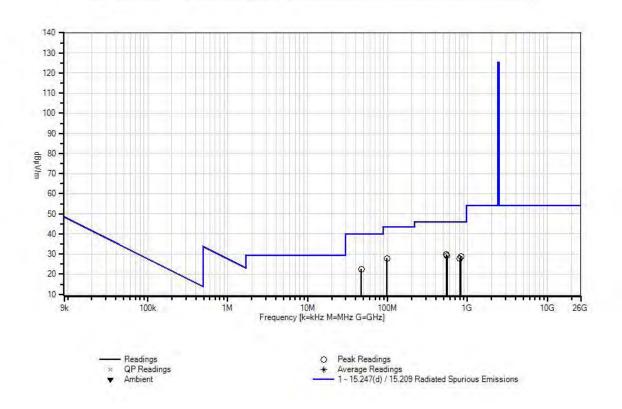
Page 65 of 91 Report No.: 95673-6A



Ext Attn: 0 dB

Measu	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	dBμV/m	dB	Ant
1	97.750M	43.7	-27.1	+9.7	+1.0	+0.2	+0.0	27.8	43.5	-15.7	Vert
			+0.3								
2	545.437M	33.7	-26.9	+19.0	+2.5	+0.8	+0.0	29.8	46.0	-16.2	Horiz
			+0.7								
3	552.765M	32.8	-26.9	+19.2	+2.5	+0.8	+0.0	29.1	46.0	-16.9	Horiz
			+0.7								
4	824.957M	28.4	-26.8	+22.1	+3.3	+1.1	+0.0	29.0	46.0	-17.0	Horiz
			+0.9								
5	47.037M	38.5	-27.0	+10.0	+0.6	+0.2	+0.0	22.5	40.0	-17.5	Vert
			+0.2								
6	805.858M	27.7	-26.8	+21.6	+3.2	+1.1	+0.0	27.7	46.0	-18.3	Vert
			+0.9								

CKC Laboratories, Inc. Date: 5/12/2014 Time: 15:21:15 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters. Sequence#: 45





Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/9/2014
Test Type: Radiated Scan Time: 16:55:17
Equipment: Sensor Sequence#: 15

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

_	rest Liqui	pintenti				
	ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	T1	AN02157	Horn Antenna-ANSI	3115	1/23/2013	1/23/2015
			C63.5			
	T2	AN03302	Cable	32026-29094K-	3/24/2014	3/24/2016
				29094K-72TC		
	Т3	ANP01210 Cable		FSJ1P-50A-4A	2/19/2013	2/19/2015
		AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	T4	AN03114	Preamp	AMF-7D-	4/11/2013	4/11/2015
				00101800-30-10P		
	T5	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
				29094K-72TC		
	T6 AN03309 High Pass Filter		11SH10-	4/2/2014	4/2/2016	
				3000/T10000-		
				O/O		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 67 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 1000MHz to 12000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by RS 232 cable. The EUT is set continuously transmitting.

Note: High Channel

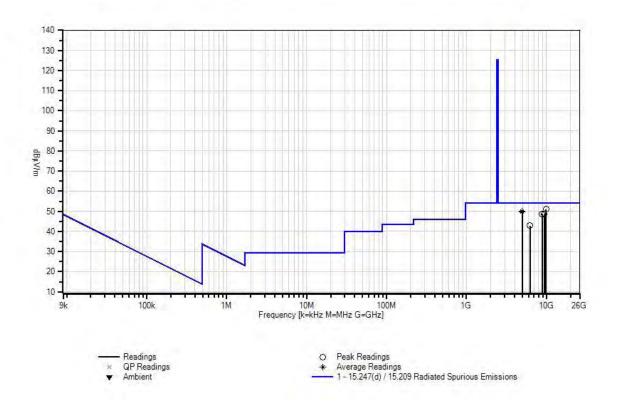
Ext Attn: 0 dB

Measu	rement Data:	Re	eading lis	ted by ma	argin.		Т	est Distance	e: 3 Meters	 	
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dΒμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	9921.915M	58.4	+39.6	+2.4	+6.3	-58.2	+0.0	51.0	54.0	-3.0	Vert
			+2.3	+0.2							
2	4958.957M	66.9	+33.6	+1.7	+3.9	-57.9	+0.0	50.0	54.0	-4.0	Vert
	Ave		+1.6	+0.2							
^	4958.957M	73.7	+33.6	+1.7	+3.9	-57.9	+0.0	56.8	54.0	+2.8	Vert
			+1.6	+0.2							
^	4958.957M	72.7	+33.6	+1.7	+3.9	-57.9	+0.0	55.8	54.0	+1.8	Vert
			+1.6	+0.2							
5	4961.067M	66.7	+33.6	+1.7	+3.9	-57.9	+0.0	49.8	54.0	-4.2	Vert
	Ave		+1.6	+0.2							
^	4961.067M	73.5	+33.6	+1.7	+3.9	-57.9	+0.0	56.6	54.0	+2.6	Vert
			+1.6	+0.2							
^	4961.067M	72.4	+33.6	+1.7	+3.9	-57.9	+0.0	55.5	54.0	+1.5	Vert
			+1.6	+0.2							
8	8823.818M	56.1	+38.1	+2.3	+5.9	-56.3	+0.0	48.8	54.0	-5.2	Horiz
			+2.4	+0.3							
9	9346.340M	56.5	+38.4	+2.3	+6.2	-57.2	+0.0	48.6	54.0	-5.4	Horiz
			+2.2	+0.2							
10	6231.228M	57.5	+34.8	+1.9	+4.3	-57.4	+0.0	42.9	54.0	-11.1	Horiz
			+1.6	+0.2							

Page 68 of 91 Report No.: 95673-6A



CKC Laboratories, Inc. Date: 5/9/2014 Time: 16:55:17 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters. Sequence#: 15





Customer: Enlighted, Inc.

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 10:55:18
Equipment: Sensor Sequence#: 27

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

Test Equip					
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03143	Cable	32022-29094K-	8/2/2013	8/2/2015
			144TC		
T2	ANP00928	Cable	various	1/23/2014	1/23/2016
Т3	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-	Active Horn Antenna	AMFW-5F-	2/21/2013	2/21/2015
	AN02693-		18002650-20-10P		
	20130221				

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Support Edites			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 12000MHz to 18000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

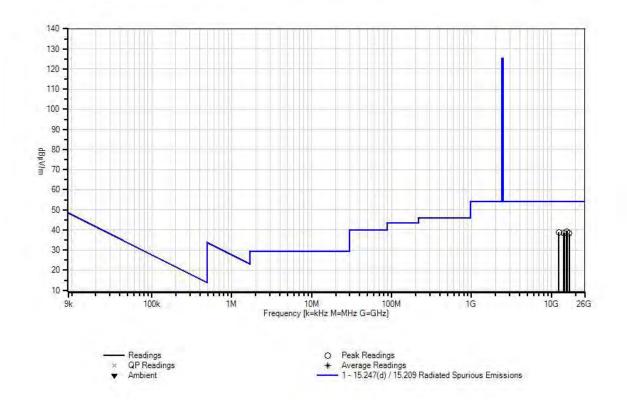
Note: High Channel

Page 70 of 91 Report No.: 95673-6A



Measu	rement Data:	Re	eading list	ted by ma	ırgin.		Тє	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	15643.640 M	45.1	+6.2	+0.7	+3.2	-16.1	+0.0	39.1	54.0	-14.9	Horiz
2	15530.527 M	44.7	+6.1	+0.8	+3.2	-15.8	+0.0	39.0	54.0	-15.0	Vert
3	12402.402 M	45.4	+5.4	+0.9	+2.5	-15.3	+0.0	38.9	54.0	-15.1	Vert
4	14308.306 M	44.6	+5.9	+0.8	+2.8	-15.6	+0.0	38.5	54.0	-15.5	Vert
5	16610.606 M	44.9	+6.2	+0.7	+2.9	-16.4	+0.0	38.3	54.0	-15.7	Horiz
6	14481.479 M	44.0	+6.0	+0.8	+2.9	-15.4	+0.0	38.3	54.0	-15.7	Horiz

CKC Laboratories, Inc. Date: 5/12/2014 Time: 10:55:18 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters Sequence#: 27





Customer: **Enlighted, Inc.**

Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

Work Order #: 95673 Date: 5/12/2014
Test Type: Radiated Scan Time: 11:33:04
Equipment: Sensor Sequence#: 30

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

I cot Equip	711001000				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03143	Cable	32022-29094K- 144TC	8/2/2013	8/2/2015
	1377006107	~ 11		7/5/2010	
T2	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
Т3	AN02694	Horn Antenna-ANSI	AMFW-5F-	2/4/2013	2/4/2015
		C63.5 Antenna	18002650-20-10P		
		Factors (dB)			
T4	ANP00929	Cable	various	1/23/2014	1/23/2016

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1

Support Devices:

Support Edites			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Radiated Spurious Emission

Frequency Range: 18000MHz to 25000MHz

RBW= VBW=1MHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits on the floor. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

Note: High Channel

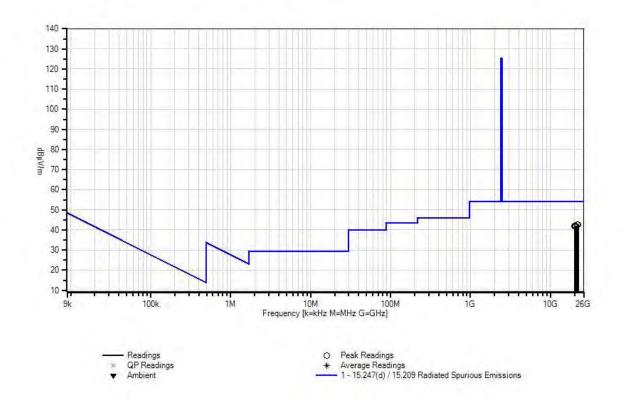
Page 72 of 91 Report No.: 95673-6A



Ext Attn: 0 dB

Measu	rement Data:	Re	eading list	ted by ma	rgin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	22105.101	45.4	+7.3	+4.4	-17.4	+3.0	+0.0	42.7	54.0	-11.3	Vert
	M										
2		45.2	+7.5	+4.2	-17.3	+3.0	+0.0	42.6	54.0	-11.4	Horiz
	M										
3		44.9	+7.5	+4.2	-17.2	+3.1	+0.0	42.5	54.0	-11.5	Vert
	M										
4	20755.753	44.5	+7.2	+4.2	-17.0	+3.2	+0.0	42.1	54.0	-11.9	Vert
	M										
5		44.3	+7.2	+4.0	-16.8	+3.2	+0.0	41.9	54.0	-12.1	Horiz
	M										
6	19971.970	44.7	+7.0	+3.8	-16.8	+3.2	+0.0	41.9	54.0	-12.1	Horiz
	M										

CKC Laboratories, Inc. Date: 5/12/2014 Time: 11:33:04 Enlighted, Inc WO#: 95673 Test Distance: 3 Meters Sequence#: 30





Test Setup Photos



9kHz – 30MHz



9kHz – 30MHz



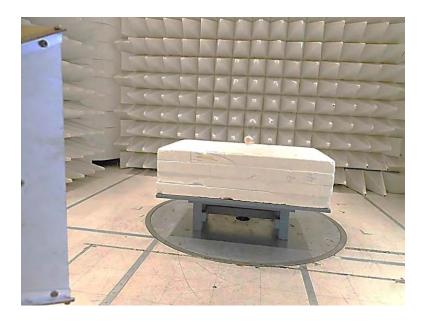


30MHz – 1GHz



30MHz – 1GHz





1GHz – 12GHz



1GHz – 12GHz





12GHz – 18GHz



12GHz – 18GHz





18GHz – 25GHz



18GHz – 25GHz



Band Edge

Test Conditions / Setup

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

Customer: Enlighted, Inc.
Specification: Band Edge Set up

Work Order #: 95673 Date: 5/9/2014
Test Type: Radiated Scan Time: 14:32:57
Equipment: Sensor Sequence#: 5

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b S/N: ENG 1

Test Equipment:

	I est Equi	Pirecite				
	ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
	T2	AN03302	Cable	32026-29094K-	3/24/2014	3/24/2016
				29094K-72TC		
	T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
Ī		AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1	

Support Devices:

FF			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Test Conditions / Notes:

Band Edge Set up

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm
Gain of the antenna= 0dBi

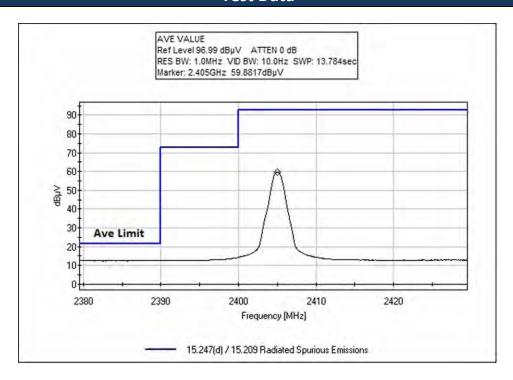
The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits next to it. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature.

In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

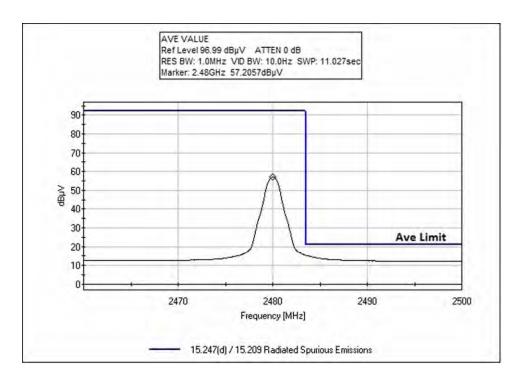
Page 79 of 91 Report No.: 95673-6A



Test Data

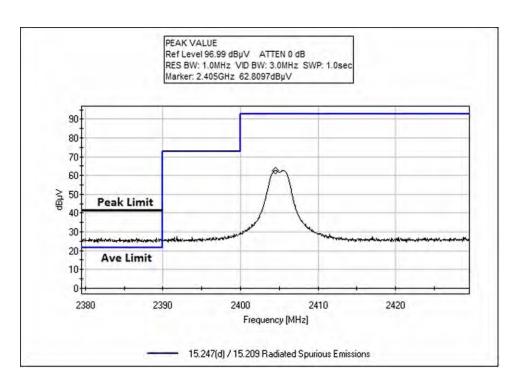


Low Channel

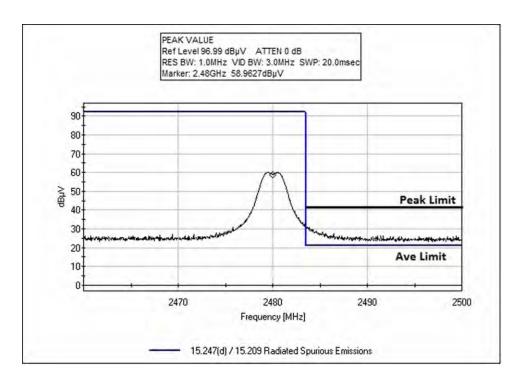


High Channel





Low Channel



High Channel



Test Setup Photos





Page 82 of 91 Report No.: 95673-6A



15. 247(e) Power Spectral Density

Test Conditions / Setup

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

Customer: Enlighted, Inc.

Specification: 15.247(e) Peak Power Spectral Density (2400-2483.5 MHz DTS)

Work Order #: 95673 Date: 5/9/2014

Test Type: Radiated Scan Time: 14:31:14

Equipment: Sensor Sequence#: 6

Manufacturer: Enlighted, Inc. Tested By: Hieu Song Nguyenpham

Model: RS-2b/SU-2b

S/N: ENG 1

Test Equipment:

	1	E				
	ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
Ī	T2	AN03302	Cable	32026-29094K-	3/24/2014	3/24/2016
				29094K-72TC		
	Т3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
I		AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Sensor*	Enlighted, Inc.	RS-2b/SU-2b	ENG 1	

Support Devices:

FF			
Function	Manufacturer	Model #	S/N
Power Adapter of Laptop	DELL	DA65NM111-00	CN-01XRN1-48661-39B-
			CMUG-A01
Laptop	DELL	Latitude E5530	18734426425
DC Power Supply	Protek	3006B	AG4070

Page 83 of 91 Report No.: 95673-6A



Test Conditions / Notes:

Power Spectral Density of the EUT

RBW=100kHz VBW=300kHz

Firmware Used: Version 2.6.2

Application: PuTTy

Temperature: 21.3°C Humidity: 43 %

Atmospheric Pressure: 101.0 kPa

High Clock: 16MHz

Transmitting operating frequency= 2.4GHz Band

RF Output= 0dBm

Gain of the antenna= 0dBi

The EUT is a Sensor. It is powered at 14VDC by DC Power Supply which sits next to it. The EUT is considered a component of the Enlighted system, and it acts as sensors for occupancy, ambient light, and temperature. In order to monitor the EUT and control the EUT by an application "PuTTy", the EUT is connected to the laptop which is outside the chamber by a RS 232 cable. The EUT is set continuously transmitting.

Ext Attn: 0 dB

EXTACTIL 0 GB										
ment Data:	Re	eading lis	ted by ma	argin.		Te	st Distan	istance: 3 Meters		
Freq	Rdng	T1	T2	Т3		Dist	Corr	Spec	Margin	Polar
MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V$	$dB\mu V$	dB	Ant
2404.514M	61.5	+28.6	+1.2	+2.7		+0.0	94.0	103.2	-9.2	Horiz
								Low Chan	nel	
2439.514M	60.6	+28.7	+1.2	+2.7		+0.0	93.2	103.2	-10.0	Horiz
								Middle Ch	annel	
2479.518M	59.4	+28.9	+1.2	+2.7		+0.0	92.2	103.2	-11.0	Horiz
								High Char	nnel	
2404.512M	58.8	+28.6	+1.2	+2.7		+0.0	91.3	103.2	-11.9	Vert
								Low Chan	nel	
2439.514M	57.4	+28.7	+1.2	+2.7		+0.0	90.0	103.2	-13.2	Vert
								Middle Ch	annel	
2479.520M	55.8	+28.9	+1.2	+2.7		+0.0	88.6	103.2	-14.6	Vert
								High Char	nnel	
	Freq MHz 2404.514M 2439.514M 2479.518M 2404.512M 2439.514M	rment Data: Reg Freq Rdng MHz dBμV 2404.514M 61.5 2439.514M 60.6 2479.518M 59.4 2404.512M 58.8 2439.514M 57.4	ment Data: Reading lis Freq Rdng T1 MHz dBμV dB 2404.514M 61.5 +28.6 2439.514M 60.6 +28.7 2479.518M 59.4 +28.9 2404.512M 58.8 +28.6 2439.514M 57.4 +28.7	ment Data: Reading listed by materials Freq Rdng T1 T2 MHz dBµV dB dB 2404.514M 61.5 +28.6 +1.2 2439.514M 60.6 +28.7 +1.2 2479.518M 59.4 +28.9 +1.2 2404.512M 58.8 +28.6 +1.2 2439.514M 57.4 +28.7 +1.2	Reading listed by margin. Freq MHz Rdng MHz T1 dB μV dB dB dB T2 dB dB T3 dB dB 2404.514M 61.5 +28.6 +1.2 +2.7 +2.7 2439.514M 60.6 +28.7 +1.2 +2.7 +1.2 +2.7 2479.518M 59.4 +28.9 +1.2 +2.7 2404.512M 58.8 +28.6 +1.2 +2.7 2439.514M 57.4 +28.7 +1.2 +2.7	Reading listed by margin. Freq Rdng T1 T2 T3 MHz dBµV dB dB dB dB 2404.514M 61.5 +28.6 +1.2 +2.7 2439.514M 60.6 +28.7 +1.2 +2.7 2479.518M 59.4 +28.9 +1.2 +2.7 2404.512M 58.8 +28.6 +1.2 +2.7 2439.514M 57.4 +28.7 +1.2 +2.7	ment Data: Reading listed by margin. Terminant Terminant Freq Rdng T1 T2 T3 Dist MHz dBµV dB dB dB dB Table 2404.514M 61.5 +28.6 +1.2 +2.7 +0.0 2439.514M 60.6 +28.7 +1.2 +2.7 +0.0 2479.518M 59.4 +28.9 +1.2 +2.7 +0.0 2404.512M 58.8 +28.6 +1.2 +2.7 +0.0 2439.514M 57.4 +28.7 +1.2 +2.7 +0.0	ment Data: Reading listed by margin. Test Distance Freq Rdng T1 T2 T3 Dist Corr MHz dBμV dB dB dB dB Table dBμV 2404.514M 61.5 +28.6 +1.2 +2.7 +0.0 94.0 2439.514M 60.6 +28.7 +1.2 +2.7 +0.0 93.2 2479.518M 59.4 +28.9 +1.2 +2.7 +0.0 92.2 2404.512M 58.8 +28.6 +1.2 +2.7 +0.0 91.3 2439.514M 57.4 +28.7 +1.2 +2.7 +0.0 90.0	ment Data: Reading listed by margin. Test Distance: 3 Meters Freq Rdng T1 T2 T3 Dist Corr Spec MHz dBμV dB dB dB dB Table dBμV dB	rment Data: Reading listed by margin. Test Distance: 3 Meters Freq Rdng MHz dBμV dB

Page 84 of 91 Report No.: 95673-6A



Convert equivalent electric field strength to the resultant power level

Frequency (MHz)	Measured Power in dBm	Power Limit in dBm	Pass/Fail
2404.534 Low Channel (Horizontal)	-1.229	8.00	Pass
2404.534 Low Channel (Vertical)	-3.929	8.00	Pass
2439.542 Middle Channel (Horizontal)	-2.029	8.00	Pass
2439542 Middle Channel (Vertical)	-5.229	8.00	Pass
2479.345 High Channel (Horizontal)	-3.029	8.00	Pass
2479.345 High Channel (Vertical)	-6.629	8.00	Pass

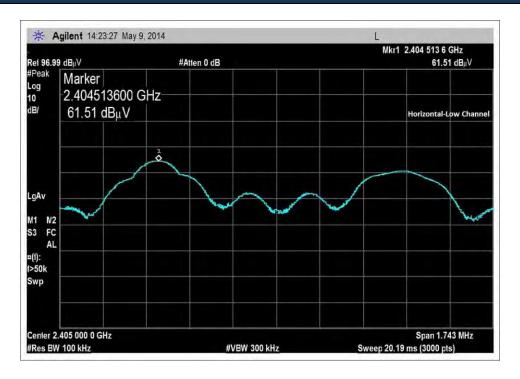
A formula converts Radiated Method to Conducted Method

dBm (conducted power) = dBuV/m +20*LOG D -104.77 - Gain (dBi)

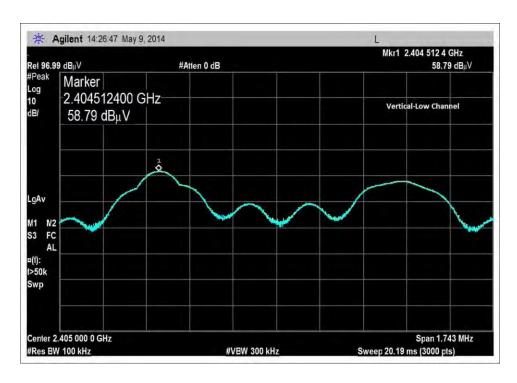
Page 85 of 91 Report No.: 95673-6A



Test Data

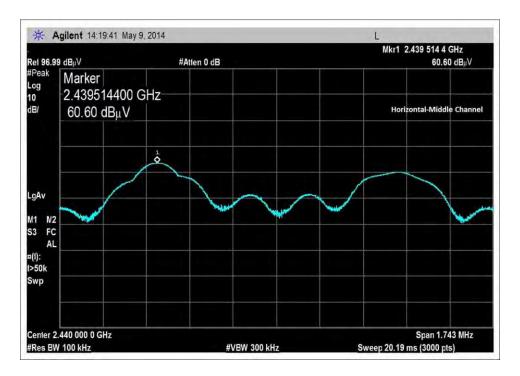


Low Channel, Horizontal

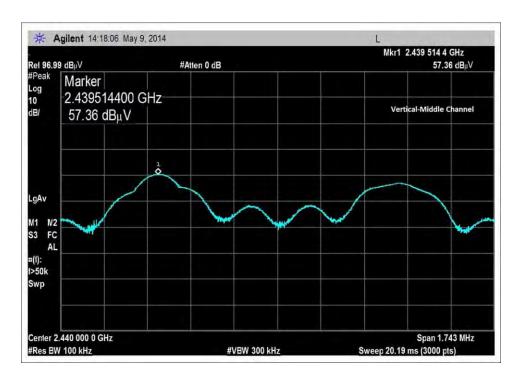


Low Channel, Vertical



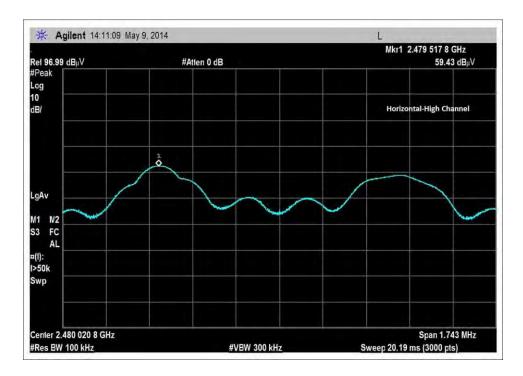


Middle Channel, Horizontal

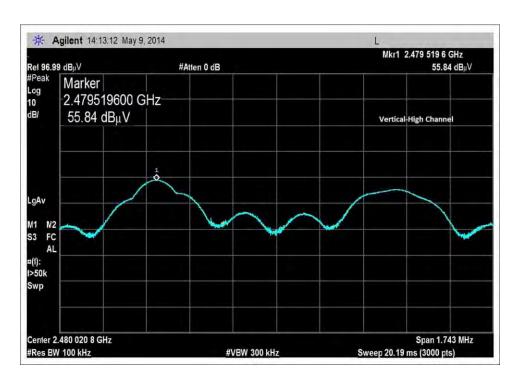


Middle Channel, Vertical





High Channel, Horizontal

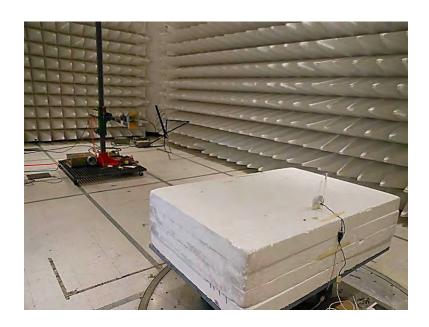


High Channel, Vertical



Test Setup Photo(s)







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 $dB\mu V/m$, the spectrum analyzer reading in $dB\mu V$ was corrected by using the following formula. This reading was then compared to the applicable specification limit.

Page 90 of 91 Report No.: 95673-6A



	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	9 kHz	150 kHz	200 Hz				
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz				
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz				
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz				

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or carrot ("A") 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.

Page 91 of 91 Report No.: 95673-6A