



ZYLIGHT LLC ADDENDUM TEST REPORT TO FC09-006

FOR THE

LED CAMERA LIGHT WITH WIRELESS CONNECTIVITY, Z90

FCC PART 15 SUBPART C SECTIONS 15.207 & 15.247, SUBPART B SECTIONS 15.107 & 15.109 CLASS B AND RSS-210 ISSUE 7

TESTING

DATE OF ISSUE: JANUARY 20, 2010

PREPARED FOR:

PREPARED BY:

Zylight LLC 4372 17th Street San Francisco, CA 94114 Joyce Walker CKC Laboratories, Inc. 5046 Sierra Pines Drive Mariposa, CA 95338

W.O. No.: 88886 Date of test: December 8-17, 2008

Report No.: FC09-006A

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ADMINISTRATIVE INFORMATION

DATE OF TEST: December 8-17, 2008 **DATE OF RECEIPT:** December 8, 2008

REPRESENTATIVE: Nick Foster

MANUFACTURER:TEST LOCATION:Zylight LLCCKC Laboratories, Inc.4372 17th Street1120 Fulton PlaceSan Francisco, CA 94114Fremont, CA 94539

TEST METHOD: ANSI C63.4 (2003), RSS-210 Issue 7 and RSS GEN Issue 2

PURPOSE OF TEST:

Original: To perform the testing of the LED Camera Light with wireless connectivity, Z90 with the requirements for FCC Part 15 Subpart C Sections 15.207 & 15.247, Subpart B Sections 15.107 & 15.109 Class B and RSS-210 devices.

Addendum A: To correct an error in the testing dates from 2009 to 2008, to correct the Power Output from .000217 to .000117 on page 41 and to include this corrected Power Output information on page 5.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE: TEST PERSONNEL:

Amrinder Brar, EMC Engineer/Lab Manager

Art Rice, Senior EMC Engineer

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SUMMARY OF RESULTS

Test	Specification	Results
Voltage Varietions	ECC 15 21(a)	Pass
Voltage Variations	FCC 15.31(e)	rass
Conducted Emissions	FCC Part 15 Subpart B Section 15.107 Class B	Pass
Radiated Emissions	FCC Part 15 Subpart B Section 15.109 Class B	Pass
Conducted Emissions	FCC Part 15 Subpart B Section 15.207 Class B	Pass
6dB Bandwidth	FCC 15.247(a)(2)	Pass
DED. O. t. t.	FGC 15 247(1)(2)	D
RF Power Output	FCC 15.247(b)(3)	Pass
Band Edge	FCC 15.247(d)	Pass
OATS Radiated Spurious Emissions	FCC 15.247(d)	Pass
Peak Power Spectral Density	FCC 15.247(e)	Pass
99% Bandwidth	RSS-210 Issue 7 & RSS GEN Issue 2	Pass
Site File No.	FCC 958979 IC 3082B-1	

CONDITIONS DURING TESTING

One pass through ferrite on DC cord at power supply (Etronic F5-NF-50W-02).

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FCC 15.31(m) Number Of Channels

This device was tested on three channels.

FCC 15.33(a) Frequency Ranges Tested

15.107 Conducted Emissions: 150 kHz – 30 MHz 15.109 Radiated Emissions: 9 kHz – 1000 MHz 15.207 Conducted Emissions: 150 kHz – 30 MHz 15.209/15.247 Radiated Emissions: 9 kHz – 25 GHz

FCC 15.203 Antenna Requirements

The antenna is an integral part of the EUT and is non-removable; therefore the EUT complies with Section 15.203 of the FCC rules.

EUT Operating Frequency

The EUT was operating in the 2400-2483.5 MHz range.

Power Output

0.000117 Watts

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EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

EQUIPMENT UNDER TEST

LED Camera Light with Wireless ConnectivityManuf: Zylight LLC

Model: Z90 Serial: 30000 pending FCC ID:

PERIPHERAL DEVICES

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

Power Supply

CINCON Manuf: Model: TR36A-12 Serial: 36120-0016027

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REPORT OF EMISSIONS MEASUREMENTS

TESTING PARAMETERS

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within $+15^{\circ}$ C and $+35^{\circ}$ C. The relative humidity was between 20% and 75%.

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.

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

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TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. 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. When conducted emissions testing was performed, a 10 dB external attenuator was used with internal offset correction in the analyzer.

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 "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. 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/receiver readings were recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients 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

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

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FCC 15.31(e) – VOLTAGE VARIATIONS

Test Setup Photos



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Test Data Sheets

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

Customer: **Zylight LLC**

Specification: FCC 15.247(b) (3) Rad-dBuV (6 dBi antenna)

Work Order #: 88886 Date: 12/8/2008
Test Type: Voltage Variation on Power Time: 14:44:46

Equipment: **LED Camera Light with wireless** Sequence#: 2

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 S/N: 30000

Test Equipment:

1 est Equipment				
Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952
DMM, Fluke 85	65380320	07/17/2008	07/17/2010	02361
Powerstat Type 126	none	07/16/2007	07/16/2009	00435

Equipment Under Test (* = EUT):

(/ -			
Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z 90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the floor. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. RBW=3 MHz VBW=8 MHz (greater than the 6dB BW per KDB 558074) Nominal=120V 115%=138V 85%=102V LEDs are on. Maximum TX fundamental variation was on Ch1=0.6dB.

Transducer Legend:

Transaucer Legena.		_
T1=ANT AN02061 900MHz-18.5GHz	T2=Cable P01952 2'	
T3=CAB-ANP04241-050608	T4=CAB-ANP05138-050608	
T5=AMP-AN00785-051607		

Ext Attn: 0 dB

N	1easu	rement Data:	Read	ding listed	d by order	r taken.		Te	st Distand	ce: 3 Meters	S	
	#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
		_	_	T5						_	_	
		MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
	1	2404.310M	96.4	+28.5	+0.3	+0.8	+2.4	+0.0	92.1	133.0	-40.9	Vert
				-36.3				238		Ch1, 120V	nominal	100
Γ	2	2404.295M	96.8	+28.5	+0.3	+0.8	+2.4	+0.0	92.5	133.0	-40.5	Vert
				-36.3				238		Ch1, 138V	7	100

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3 2404.420M	96.2	+28.5	+0.3	+0.8	+2.4	+0.0	91.9	133.0	-41.1	Vert
		-36.3				238		Ch1, 102V		100
4 2424.350M	95.4	+28.5	+0.3	+0.8	+2.5	+0.0	91.2	133.0	-41.8	Vert
		-36.3				238		Ch5, 102V		100
5 2424.400M	95.2	+28.5	+0.3	+0.8	+2.5	+0.0	91.0	133.0	-42.0	Vert
		-36.3				238		Ch5, 120V		100
6 2424.360M	95.1	+28.5	+0.3	+0.8	+2.5	+0.0	90.9	133.0	-42.1	Vert
		-36.3				238		Ch5, 138V		100
7 2449.360M	93.8	+28.5	+0.3	+0.8	+2.5	+0.0	89.6	133.0	-43.4	Vert
		-36.3				238		Ch10, 138V	7	100
8 2449.345M	93.8	+28.5	+0.3	+0.8	+2.5	+0.0	89.6	133.0	-43.4	Vert
		-36.3				238		Ch10, 120V	r	100
9 2449.400M	93.7	+28.5	+0.3	+0.8	+2.5	+0.0	89.5	133.0	-43.5	Vert
		-36.3				238		Ch10, 102V	7	100

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FCC 15.107 – AC CONDUCTED EMISSIONS

Test Setup Photos





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Test Data Sheets

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

Customer: Zylight LLC

Specification: FCC 15.107 B COND [AVE]

Work Order #: 88886 Date: 12/15/2008
Test Type: Conducted Emissions Time: 09:54:42
Equipment: LED Camera Light with wireless Sequence#: 37

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice Model: Z90 120V 60Hz

S/N: 30000

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	11/20/2007	11/20/2009	02663
S.A., Display HP-85662A	2542A12169	11/20/2007	11/20/2009	02662
QP Adapter HP-85650A	2521A00909	11/20/2007	11/20/2009	00683
Cable, RG214		05/28/2008	05/28/2010	P02410
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1007	04/03/2007	04/03/2009	00494
TTE High Pass Filter	H4120	01/17/2007	01/17/2009	05258

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
LED Camera Light with	Zylight LLC	Z90	30000
wireless connectivity*			

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick—Styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the table 10cm from the EUT.—Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. Receiving on Ch5. LEDs are on. Temperature=23°C, Relative Humidity=45%. Frequency range tested: 150kHz – 30MHz.

Transducer Legend:

T1=TTE HP Filter	T2=Cable Calibration ANP02410
T3=AN P00081 10dB Attenuator	T4=LISN – AN00494 – Black – ELC "OUT"

Λ	<i>Aeasur</i>	ement Data:	Re	eading lis	ted by ma	argin.			Test Lead	d: Black		
	#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
		MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
	1	259.807k	35.1	+0.1	+0.1	+10.0	+0.0	+0.0	45.3	51.4	-6.1	Black
	2	266.352k	34.7	+0.1	+0.1	+10.0	+0.0	+0.0	44.9	51.2	-6.3	Black
	3	284.532k	34.2	+0.1	+0.1	+10.0	+0.0	+0.0	44.4	50.7	-6.3	Black

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4	28.732M	32.7	+0.2	+0.4	+10.0	+0.0	+0.0	43.3	50.0	-6.7	Black
5	29.123M	32.3	+0.2	+0.4	+10.1	+0.0	+0.0	43.0	50.0	-7.0	Black
6	28.342M	32.2	+0.2	+0.4	+10.0	+0.0	+0.0	42.8	50.0	-7.2	Black
7	304.166k	32.6	+0.1	+0.1	+10.0	+0.0	+0.0	42.8	50.1	-7.3	Black
8	363.797k	31.0	+0.0	+0.1	+10.1	+0.0	+0.0	41.2	48.6	-7.4	Black
9	277.987k	33.2	+0.1	+0.1	+10.0	+0.0	+0.0	43.4	50.9	-7.5	Black
10	288.168k	32.8	+0.1	+0.1	+10.0	+0.0	+0.0	43.0	50.6	-7.6	Black
11	26.793M	31.8	+0.2	+0.4	+10.0	+0.0	+0.0	42.4	50.0	-7.6	Black
12	346.344k	31.1	+0.0	+0.1	+10.0	+0.0	+0.0	41.2	49.0	-7.8	Black
13	403.066k	29.8	+0.0	+0.1	+10.1	+0.0	+0.0	40.0	47.8	-7.8	Black
14	25.628M	31.6	+0.2	+0.4	+10.0	+0.0	+0.0	42.2	50.0	-7.8	Black
15	27.958M	31.5	+0.2	+0.4	+10.0	+0.0	+0.0	42.1	50.0	-7.9	Black
16	459.060k	28.2	+0.1	+0.1	+10.1	+0.1	+0.0	38.6	46.7	-8.1	Black
17	499.783k	27.3	+0.1	+0.1	+10.1	+0.1	+0.0	37.7	46.0	-8.3	Black
18	27.568M	31.1	+0.2	+0.4	+10.0	+0.0	+0.0	41.7	50.0	-8.3	Black
19	27.177M	31.0	+0.2	+0.4	+10.0	+0.0	+0.0	41.6	50.0	-8.4	Black
20	29.507M	30.9	+0.2	+0.4	+10.1	+0.0	+0.0	41.6	50.0	-8.4	Black
21	393.612k	29.3	+0.0	+0.1	+10.1	+0.0	+0.0	39.5	48.0	-8.5	Black
22	386.340k	29.3	+0.0	+0.1	+10.1	+0.0	+0.0	39.5	48.1	-8.6	Black
23	388.522k	29.3	+0.0	+0.1	+10.1	+0.0	+0.0	39.5	48.1	-8.6	Black
24	444.516k	28.0	+0.1	+0.1	+10.1	+0.1	+0.0	38.4	47.0	-8.6	Black
25	482.330k	27.2	+0.1	+0.1	+10.1	+0.1	+0.0	37.6	46.3	-8.7	Black
26	26.396M	30.7	+0.2	+0.4	+10.0	+0.0	+0.0	41.3	50.0	-8.7	Black
27	478.694k	27.2	+0.1	+0.1	+10.1	+0.1	+0.0	37.6	46.4	-8.8	Black
28	21.373M	30.4	+0.2	+0.4	+10.1	+0.1	+0.0	41.2	50.0	-8.8	Black

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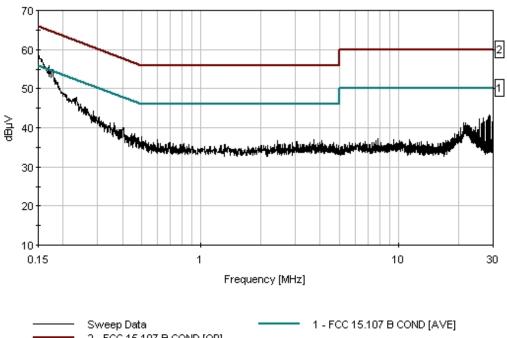


29	21.779M	30.4	+0.2	+0.4	+10.1	+0.1	+0.0	41.2	50.0	-8.8	Black
30	21.851M	30.4	+0.2	+0.4	+10.1	+0.1	+0.0	41.2	50.0	-8.8	Black
31	29.911M	30.5	+0.2	+0.4	+10.1	+0.0	+0.0	41.2	50.0	-8.8	Black
32	451.061k	27.4	+0.1	+0.1	+10.1	+0.1	+0.0	37.8	46.9	-9.1	Black
33	603.773k	26.5	+0.1	+0.1	+10.1	+0.1	+0.0	36.9	46.0	-9.1	Black
34	3.735M	26.5	+0.1	+0.2	+10.1	+0.0	+0.0	36.9	46.0	-9.1	Black
35	26.012M	30.3	+0.2	+0.4	+10.0	+0.0	+0.0	40.9	50.0	-9.1	Black
36	472.877k	26.9	+0.1	+0.1	+10.1	+0.1	+0.0	37.3	46.5	-9.2	Black
37	4.084M	26.3	+0.1	+0.2	+10.1	+0.0	+0.0	36.7	46.0	-9.3	Black
38	2.429M	26.3	+0.1	+0.2	+10.0	+0.0	+0.0	36.6	46.0	-9.4	Black
39	21.589M	29.8	+0.2	+0.4	+10.1	+0.1	+0.0	40.6	50.0	-9.4	Black
40	21.445M	29.7	+0.2	+0.4	+10.1	+0.1	+0.0	40.5	50.0	-9.5	Black
41	3.042M	26.1	+0.1	+0.1	+10.0	+0.1	+0.0	36.4	46.0	-9.6	Black
42	22.842M	29.7	+0.2	+0.4	+10.1	+0.0	+0.0	40.4	50.0	-9.6	Black
43	486.694k	26.1	+0.1	+0.1	+10.1	+0.1	+0.0	36.5	46.2	-9.7	Black
44	689.582k	25.9	+0.1	+0.2	+10.1	+0.0	+0.0	36.3	46.0	-9.7	Black
45	3.548M	25.9	+0.1	+0.2	+10.1	+0.0	+0.0	36.3	46.0	-9.7	Black
46	539.052k	25.8	+0.1	+0.1	+10.1	+0.1	+0.0	36.2	46.0	-9.8	Black
47	3.977M	25.9	+0.1	+0.1	+10.1	+0.0	+0.0	36.2	46.0	-9.8	Black
48	175.000k Ave	27.1	+1.6	+0.0	+10.0	+0.0	+0.0	38.7	54.7	-16.0	Black
^	175.452k	43.4	+1.6	+0.0	+10.0	+0.0	+0.0	55.0	54.7	+0.3	Black
50	234.000k Ave	22.3	+0.1	+0.1	+10.0	+0.0	+0.0	32.5	52.3	-19.8	Black
^		37.6	+0.1	+0.1	+10.0	+0.0	+0.0	47.8	52.3	-4.5	Black
52	151.000k Ave	22.5	+3.2	+0.2	+10.0	+0.0	+0.0	35.9	55.9	-20.0	Black
^		44.9	+3.2	+0.2	+10.0	+0.0	+0.0	58.3	55.9	+2.4	Black

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CKC Laboratories, Inc. Date: 12/15/2008 Time: 09:54:42 Zylight LLC WO#: 88886 FCC 15.107 B COND [AVE] Test Lead: Black 120V 60Hz Sequence#: 37



Sweep Data 2 - FCC 15.107 B COND [QP]



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

Customer: Zylight LLC

Specification: FCC 15.107 B COND [AVE]

Work Order #: 88886 Date: 12/15/2008
Test Type: Conducted Emissions Time: 09:47:16
Equipment: LED Camera Light with wireless Sequence#: 36

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice Model: Z90 120V 60Hz

S/N: 30000

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	11/20/2007	11/20/2009	02663
S.A., Display HP-85662A	2542A12169	11/20/2007	11/20/2009	02662
QP Adapter HP-85650A	2521A00909	11/20/2007	11/20/2009	00683
Cable, RG214		05/28/2008	05/28/2010	P02410
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1007	04/03/2007	04/03/2009	00494
TTE High Pass Filter	H4120	01/17/2007	01/17/2009	05258

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick—Styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the table 10cm from the EUT.—Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. Receiving on Ch5. LEDs are on. Temperature=23°C, Relative Humidity=45%. Frequency range tested: 150kHz – 30MHz.

Transducer Legend:

T1=TTE HP Filter	T2=Cable Calibration ANP02410
T3=AN P00081 10dB Attenuator	T4=LISN – AN00494 – White – ELC "OUT"

Measur	rement Data:	Re	eading lis	ted by ma	argin.			Test Lead	d: White		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	242.354k	35.4	+0.1	+0.1	+10.0	+0.0	+0.0	45.6	52.0	-6.4	White
2	28.739M	32.9	+0.2	+0.4	+10.0	+0.0	+0.0	43.5	50.0	-6.5	White
3	266.352k	34.4	+0.1	+0.1	+10.0	+0.0	+0.0	44.6	51.2	-6.6	White
4	287.441k	33.7	+0.1	+0.1	+10.0	+0.0	+0.0	43.9	50.6	-6.7	White

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5	29.130M	32.6	+0.2	+0.4	+10.1	+0.0	+0.0	43.3	50.0	-6.7	White
6	29.514M	32.2	+0.2	+0.4	+10.1	+0.0	+0.0	42.9	50.0	-7.1	White
7	26.786M	32.0	+0.2	+0.4	+10.0	+0.1	+0.0	42.7	50.0	-7.3	White
8	27.951M	31.9	+0.2	+0.4	+10.0	+0.0	+0.0	42.5	50.0	-7.5	White
9	28.349M	31.8	+0.2	+0.4	+10.0	+0.0	+0.0	42.4	50.0	-7.6	White
10	29.911M	31.7	+0.2	+0.4	+10.1	+0.0	+0.0	42.4	50.0	-7.6	White
11	320.165k	31.7	+0.1	+0.1	+10.0	+0.0	+0.0	41.9	49.7	-7.8	White
12	27.177M	31.5	+0.2	+0.4	+10.0	+0.1	+0.0	42.2	50.0	-7.8	White
13	375.432k	30.3	+0.0	+0.1	+10.1	+0.0	+0.0	40.5	48.4	-7.9	White
14	461.242k	28.3	+0.1	+0.1	+10.1	+0.0	+0.0	38.6	46.7	-8.1	White
15	297.622k	31.9	+0.1	+0.1	+10.0	+0.0	+0.0	42.1	50.3	-8.2	White
16	350.707k	30.5	+0.0	+0.1	+10.1	+0.0	+0.0	40.7	48.9	-8.2	White
17	411.065k	29.2	+0.0	+0.1	+10.1	+0.0	+0.0	39.4	47.6	-8.2	White
18	369.614k	30.0	+0.0	+0.1	+10.1	+0.0	+0.0	40.2	48.5	-8.3	White
19	403.066k	29.3	+0.0	+0.1	+10.1	+0.0	+0.0	39.5	47.8	-8.3	White
20	376.886k	29.7	+0.0	+0.1	+10.1	+0.0	+0.0	39.9	48.3	-8.4	White
21	307.075k	31.3	+0.1	+0.1	+10.0	+0.0	+0.0	41.5	50.0	-8.5	White
22	25.998M	30.8	+0.2	+0.4	+10.0	+0.1	+0.0	41.5	50.0	-8.5	White
23	27.568M	30.9	+0.2	+0.4	+10.0	+0.0	+0.0	41.5	50.0	-8.5	White
24	326.710k	30.8	+0.0	+0.1	+10.0	+0.0	+0.0	40.9	49.5	-8.6	White
25	455.424k	27.9	+0.1	+0.1	+10.1	+0.0	+0.0	38.2	46.8	-8.6	White
26	26.396M	30.6	+0.2	+0.4	+10.0	+0.1	+0.0	41.3	50.0	-8.7	White
27	464.878k	27.4	+0.1	+0.1	+10.1	+0.0	+0.0	37.7	46.6	-8.9	White
28	400.157k	28.7	+0.0	+0.1	+10.1	+0.0	+0.0	38.9	47.9	-9.0	White
29	688.855k	26.5	+0.1	+0.2	+10.1	+0.1	+0.0	37.0	46.0	-9.0	White

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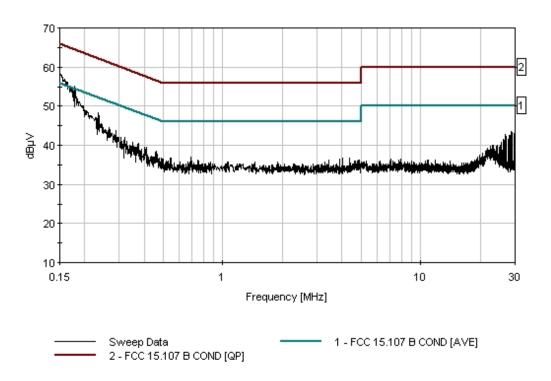


30	387.067k	28.8	+0.0	+0.1	+10.1	+0.0	+0.0	39.0	48.1	-9.1	White
31	339.072k	29.9	+0.0	+0.1	+10.0	+0.0	+0.0	40.0	49.2	-9.2	White
32	547.051k	26.4	+0.1	+0.1	+10.1	+0.1	+0.0	36.8	46.0	-9.2	White
33	4.024M	26.4	+0.1	+0.2	+10.1	+0.0	+0.0	36.8	46.0	-9.2	White
34	25.622M	30.1	+0.2	+0.4	+10.0	+0.1	+0.0	40.8	50.0	-9.2	White
35	344.162k	29.6	+0.0	+0.1	+10.0	+0.0	+0.0	39.7	49.1	-9.4	White
36	357.979k	29.2	+0.0	+0.1	+10.1	+0.0	+0.0	39.4	48.8	-9.4	White
37	541.961k	26.2	+0.1	+0.1	+10.1	+0.1	+0.0	36.6	46.0	-9.4	White
38	4.364M	26.3	+0.1	+0.1	+10.1	+0.0	+0.0	36.6	46.0	-9.4	White
39	3.905M	26.1	+0.1	+0.1	+10.1	+0.0	+0.0	36.4	46.0	-9.6	White
40	331.800k	29.6	+0.0	+0.1	+10.0	+0.0	+0.0	39.7	49.4	-9.7	White
41	4.820M	26.0	+0.1	+0.1	+10.0	+0.1	+0.0	36.3	46.0	-9.7	White
42	437.244k	27.0	+0.1	+0.1	+10.1	+0.0	+0.0	37.3	47.1	-9.8	White
43	3.442M	25.9	+0.1	+0.2	+10.0	+0.0	+0.0	36.2	46.0	-9.8	White
44	747.758k	25.7	+0.1	+0.1	+10.1	+0.1	+0.0	36.1	46.0	-9.9	White
45	176.000k	27.0	+1.6	+0.0	+10.0	+0.0	+0.0	38.6	54.7	-16.1	White
^	Ave 177.634k	43.6	+1.5	+0.0	+10.0	+0.0	+0.0	55.1	54.6	+0.5	White
٨	180.542k	42.5	+1.3	+0.0	+10.0	+0.0	+0.0	53.8	54.5	-0.7	White
٨	176.179k	42.2	+1.6	+0.0	+10.0	+0.0	+0.0	53.8	54.7	-0.9	White
49	151.000k	21.1	+3.2	+0.2	+10.0	+0.0	+0.0	34.4	55.9	-21.5	White
^	Ave 151.454k	44.7	+3.2	+0.2	+10.0	+0.0	+0.0	58.1	55.9	+2.2	White
51	236.000k	17.2	+0.1	+0.1	+10.0	+0.0	+0.0	27.4	52.2	-24.8	White
^	Ave 235.810k	38.0	+0.1	+0.1	+10.0	+0.0	+0.0	48.2	52.2	-4.0	White
٨	231.446k	36.7	+0.1	+0.1	+10.0	+0.0	+0.0	46.9	52.4	-5.5	White

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CKC Laboratories, Inc. Date: 12/15/2008 Time: 09:47:16 Zylight LLC WO#: 88886 FCC 15.107 B COND [AVE] Test Lead: White 120V 60Hz Sequence#: 36



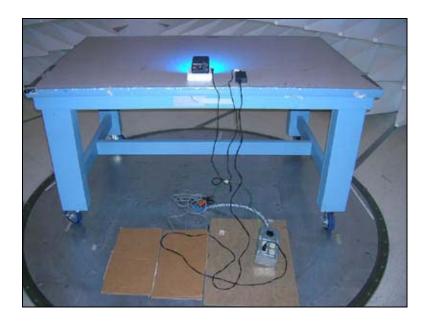
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FCC 15.109 – RADIATED EMISSIONS

Test Setup Photos





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Test Data Sheets

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

Customer: Zylight LLC

Specification: FCC 15.109 Class B Radiated

Work Order #: 88886 Date: 12/11/2008
Test Type: Spurious Emissions Maximized Time: 11:50:14
Equipment: LED Camera Light with wireless Sequence#: 26

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 S/N: 30000

Test Equipment:

1 est Equipment.				
Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952
Cable	None	04/21/2008	04/21/2010	P05440
Preamp, HP8447D	2443A03707	02/05/2007	02/05/2009	00730
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299
Antenna, Bilog	2630	12/30/2006	12/30/2008	00852
Mag Loop – 6502	2078	06/11/2007	06/11/2009	00432
3.5GHz HP Filter	PN 84300-80038	04/01/2008	04/01/2010	P01416
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Cable	none	07/16/2008	07/16/2010	05843
Cable	none	04/02/2008	04/02/2010	05735
HF cable 24"	32022-2-29094K-24TC	02/04/2008	02/04/2010	03015
18-26.5GHz WaveGuide	n/a	02/11/2008	02/11/2010	P00929
Active Horn 18-26GHz	1087835	09/21/2007	09/21/2009	02694
2-ft cable, 1-18GHz	HF-HC-02	03/27/2007	03/27/2009	P01952

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
LED Camera Light with	Zylight LLC	Z90	30000
wireless connectivity*			

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the table 10cm from the camera light. The cord is bundled to 40 cm above ground. Receive mode. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. 30-1000MHz RBW=120kHz, VBW=360kHz 1-25GHz RBW=1 MHz VBW=100 kHz LEDs are on. 1 pass through ferrite on DC cord at power supply. (Etronic F5-NF-50W-02).

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Transducer Legend:

T1=ANT AN00852 25-1000MHz T2=Cable Calibration ANP05299
T3=Cable Calibration ANP05300 T4=Cable Calibration ANP05440
T5=AMP-AN00730-020507 T6=ANT AN02061 900MHz-18.5GHz
T7=Cable P01952 2' T8=CAB-ANP04241-050608
T9=CAB-ANP05138-050608 T10=AMP-AN00785-051607

Measurement Data: Reading listed by margin. Test Distance: 3 Meters T4 Rdng T1 T2 T3 Dist Corr Polar Freq Spec Margin T6 T8 T5 T7 T9 T10 $dB\mu V$ dB dB dB dB Table $dB\mu V/m$ $dB\mu V/m$ MHz dΒ Ant 59.357M +0.1+0.2+0.5+0.039.1 40.0 -0.9 Vert 58.9 +6.6QP +0.0+0.0358 99 -27.2 +0.0+0.0+0.059.345M 59.7 +0.1+0.2+0.5+0.039.9 40.0 -0.1Vert +6.6-27.2 99 +0.0+0.0+0.0358 +0.0+0.03 36.859M 48.8 +16.4+0.0+0.2+0.3+0.038.5 40.0 -1.5 Vert QP -27.2 +0.0+0.0+0.0145 99 +0.0+0.0+0.2+0.3 +0.040.7 40.0 +0.7Vert 36.854M 51.0 +16.4+0.0-27.2+0.0+0.0+0.0145 99 +0.0+0.0Vert 5 55.459M 57.3 +0.2+0.4+0.038.3 40.0 -1.7 +7.5+0.1QP -27.2 +0.0+0.0+0.042 99 +0.0+0.058.8 +7.5 +0.2+0.4 +0.039.8 40.0 -0.2 55.489M +0.1Vert -27.2 +0.0+0.0+0.042 99 +0.0+0.037.625M 49.0 +0.1+0.4+0.038.2 40.0 -1.8 Vert +15.9+0.199 QP -27.3 +0.0+0.0+0.0145 +0.0+0.037.658M 51.1 +15.8+0.1+0.4+0.040.2 40.0 +0.2Vert +0.199 -27.3 +0.0+0.0145 +0.0+0.0+0.09 55.085M 57.0 +7.6+0.1+0.2+0.4+0.038.1 40.0 -1.9 Vert OP -27.2 +0.0+0.0+0.042 99 +0.0+0.055.071M 58.9 +7.6+0.1+0.2+0.4+0.040.0 40.0 +0.0Vert -27.2 +0.0+0.0+0.042 99 +0.0+0.011 55.853M 57.2 +0.2+0.4 +0.038.1 40.0 -1.9 Vert +7.4+0.1QP 99 -27.2 +0.0+0.0+0.042 +0.0+0.055.863M 58.6 +0.2+0.4+0.039.5 40.0 -0.5 Vert +7.4+0.1-27.2 +0.0+0.0+0.042 99 +0.0+0.0

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13 56.248M	57.1	+7.3	+0.1	+0.2	+0.4	+0.0	37.9	40.0	-2.1	Vert
QP		-27.2	+0.0	+0.0	+0.0	42				99
		+0.0	+0.0							
^ 56.242M	58.5	+7.3	+0.1	+0.2	+0.4	+0.0	39.3	40.0	-0.7	Vert
		-27.2	+0.0	+0.0	+0.0	42				99
		+0.0	+0.0							
15 60.887M	57.2	+6.4	+0.1	+0.2	+0.4	+0.0	37.1	40.0	-2.9	Vert
QP		-27.2	+0.0	+0.0	+0.0	10				99
		+0.0	+0.0							
^ 60.878M	58.1	+6.4	+0.1	+0.2	+0.4	+0.0	38.0	40.0	-2.0	Vert
		-27.2	+0.0	+0.0	+0.0	10				99
		+0.0	+0.0							
17 50.429M	54.7	+8.9	+0.0	+0.2	+0.4	+0.0	36.9	40.0	-3.1	Vert
QP		-27.3	+0.0	+0.0	+0.0	160				99
		+0.0	+0.0							
^ 50.408M	57.8	+8.9	+0.0	+0.2	+0.4	+0.0	40.0	40.0	+0.0	Vert
		-27.3	+0.0	+0.0	+0.0	160				99
		+0.0	+0.0							
19 51.204M	54.6	+8.7	+0.0	+0.2	+0.5	+0.0	36.7	40.0	-3.3	Vert
QP		-27.3	+0.0	+0.0	+0.0	30				99
		+0.0	+0.0							
^ 51.225M	57.2	+8.7	+0.0	+0.2	+0.5	+0.0	39.3	40.0	-0.7	Vert
		-27.3	+0.0	+0.0	+0.0	30				99
		+0.0	+0.0							
21 46.156M	52.2	+10.9	+0.1	+0.1	+0.4	+0.0	36.4	40.0	-3.6	Vert
		-27.3	+0.0	+0.0	+0.0	205				100
		+0.0	+0.0							
22 66.719M	55.8	+6.5	+0.1	+0.2	+0.4	+0.0	35.8	40.0	-4.2	Vert
QP		-27.2	+0.0	+0.0	+0.0	9				99
		+0.0	+0.0							
^ 66.716M	59.4	+6.5	+0.1	+0.2	+0.4	+0.0	39.4	40.0	-0.6	Vert
		-27.2	+0.0	+0.0	+0.0	9				99
		+0.0	+0.0							
24 35.690M	43.1	+17.1	+0.0	+0.2	+0.4	+0.0	33.6	40.0	-6.4	Vert
QP		-27.2	+0.0	+0.0	+0.0	367				99
		+0.0	+0.0							
^ 35.686M	46.8	+17.1	+0.0	+0.2	+0.4	+0.0	37.3	40.0	-2.7	Vert
		-27.2	+0.0	+0.0	+0.0	367				99
		+0.0	+0.0							
26 158.283M	51.4	+11.1	+0.2	+0.2	+0.8	+0.0	36.5	43.5	-7.0	Vert
QP		-27.2	+0.0	+0.0	+0.0	258				99
		+0.0	+0.0							
^ 158.288M	56.1	+11.1	+0.2	+0.2	+0.8	+0.0	41.2	43.5	-2.3	Vert
		-27.2	+0.0	+0.0	+0.0	258				99
		+0.0	+0.0							
28 4895.966M	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	46.9	54.0	-7.1	Vert
		+0.0	+33.3	+0.6	+1.2	142				118
		+3.7	-35.0							
29 160.937M	50.8	+10.9	+0.2	+0.2	+0.8	+0.0	35.7	43.5	-7.8	Horiz
		-27.2	+0.0	+0.0	+0.0	154				196
		+0.0	+0.0							

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30	4805.981M	42.5	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	54.0	-8.1	Horiz
30	4005.701W	72.3	+0.0	+33.1	+0.5	+1.1	237	73.7	Ch1	-0.1	100
			+3.6	+33.1 -34.9	+0.5	+1.1	231		CIII		100
21	4007.0423.4	41.0			. 0. 0	. 0. 0	. 0. 0	44.0	540	0.0	TT .
31	4895.842M	41.0	+0.0	+0.0	+0.0	+0.0	+0.0	44.8	54.0	-9.2	Horiz
			+0.0	+33.3	+0.6	+1.2	243				100
			+3.7	-35.0							
32	4805.930M	41.3	+0.0	+0.0	+0.0	+0.0	+0.0	44.7	54.0	-9.3	Vert
	Ave		+0.0	+33.1	+0.5	+1.1	145		Ch1		118
			+3.6	-34.9							
^	4805.876M	45.4	+0.0	+0.0	+0.0	+0.0	+0.0	48.8	54.0	-5.2	Vert
			+0.0	+33.1	+0.5	+1.1	145		Ch1		118
			+3.6	-34.9							
34	4845.923M	40.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.6	54.0	-9.4	Vert
	Ave		+0.0	+33.2	+0.6	+1.2	139		Ch5		118
			+3.7	-34.9							
^	4845.899M	45.3	+0.0	+0.0	+0.0	+0.0	+0.0	49.1	54.0	-4.9	Vert
			+0.0	+33.2	+0.6	+1.2	139		Ch5		118
			+3.7	-34.9							
36	4845.917M	38.0	+0.0	+0.0	+0.0	+0.0	+0.0	41.8	54.0	-12.2	Horiz
	Ave		+0.0	+33.2	+0.6	+1.2	238		Ch5		99
			+3.7	-34.9					-		
^	4845.971M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	47.0	54.0	-7.0	Horiz
	.0.0.0,71111	.5.2	+0.0	+33.2	+0.6	+1.2	238	.,.0	Ch5	,.0	99
			+3.7	-34.9	10.0	11.2	230		CIIS		
			⊤೨.1	-J+.7							

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FCC 15.207 – AC CONDUCTED EMISSIONS

Test Setup Photos





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Test Data Sheets

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

Customer: Zylight LLC

Specification: FCC 15.207 COND [AVE]

Work Order #: 88886 Date: 12/15/2008
Test Type: Conducted Emissions Time: 09:26:01
Equipment: LED Camera Light with wireless Sequence#: 34

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice Model: Z90 120V 60Hz

S/N: 30000

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	11/20/2007	11/20/2009	02663
S.A., Display HP-85662A	2542A12169	11/20/2007	11/20/2009	02662
QP Adapter HP-85650A	2521A00909	11/20/2007	11/20/2009	00683
Cable, RG214		05/28/2008	05/28/2010	P02410
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1007	04/03/2007	04/03/2009	00494
TTE High Pass Filter	H4120	01/17/2007	01/17/2009	05258

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
LED Camera Light with	Zylight LLC	Z90	30000
wireless connectivity*			

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the table 10cm from the EUT. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. Transmitting on Ch5. LEDs are on. Temperature=23°C, Relative Humidity=45%. Frequency range tested: 0.15-30 MHz, RBW=9kHz, VBW=30kHz.

Transducer Legend:

T1=TTE HP Filter	T2=Cable Calibration ANP02410
T3=AN P00081 10dB Attenuator	T4=LISN - AN00494 - Black - ELC "OUT"

Measur	ement Data:	Re	eading lis	ted by ma	argin.	Test Lead: Black					
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	341.981k	32.7	+0.0	+0.1	+10.0	+0.0	+0.0	42.8	49.2	-6.4	Black
2	398.702k	30.9	+0.0	+0.1	+10.1	+0.0	+0.0	41.1	47.9	-6.8	Black

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3	28.308M	32.3	+0.2	+0.4	+10.0	+0.0	+0.0	42.9	50.0	-7.1	Black
4	27.917M	31.9	+0.2	+0.4	+10.0	+0.0	+0.0	42.5	50.0	-7.5	Black
5	23.813M	31.6	+0.2	+0.4	+10.0	+0.0	+0.0	42.2	50.0	-7.8	Black
6	27.520M	31.6	+0.2	+0.4	+10.0	+0.0	+0.0	42.2	50.0	-7.8	Black
7	450.334k	28.5	+0.1	+0.1	+10.1	+0.1	+0.0	38.9	46.9	-8.0	Black
8	512.146k	27.5	+0.1	+0.1	+10.1	+0.1	+0.0	37.9	46.0	-8.1	Black
9	23.689M	31.3	+0.2	+0.4	+10.0	+0.0	+0.0	41.9	50.0	-8.1	Black
10	26.752M	31.2	+0.2	+0.4	+10.0	+0.0	+0.0	41.8	50.0	-8.2	Black
11	411.792k	29.1	+0.0	+0.1	+10.1	+0.0	+0.0	39.3	47.6	-8.3	Black
12	23.511M	31.1	+0.2	+0.4	+10.0	+0.0	+0.0	41.7	50.0	-8.3	Black
13	27.136M	31.0	+0.2	+0.4	+10.0	+0.0	+0.0	41.6	50.0	-8.4	Black
14	28.691M	31.0	+0.2	+0.4	+10.0	+0.0	+0.0	41.6	50.0	-8.4	Black
15	24.546M	31.0	+0.2	+0.3	+10.0	+0.0	+0.0	41.5	50.0	-8.5	Black
16	4.390M	27.1	+0.1	+0.1	+10.1	+0.0	+0.0	37.4	46.0	-8.6	Black
17	23.881M	30.7	+0.2	+0.4	+10.0	+0.0	+0.0	41.3	50.0	-8.7	Black
18	23.998M	30.7	+0.2	+0.3	+10.0	+0.0	+0.0	41.2	50.0	-8.8	Black
19	24.422M	30.7	+0.2	+0.3	+10.0	+0.0	+0.0	41.2	50.0	-8.8	Black
20	475.786k	27.1	+0.1	+0.1	+10.1	+0.1	+0.0	37.5	46.4	-8.9	Black
21	565.231k	26.7	+0.1	+0.1	+10.1	+0.1	+0.0	37.1	46.0	-8.9	Black
22	23.634M	30.5	+0.2	+0.4	+10.0	+0.0	+0.0	41.1	50.0	-8.9	Black
23	29.472M	30.3	+0.2	+0.4	+10.1	+0.0	+0.0	41.0	50.0	-9.0	Black
24	4.683M	26.6	+0.1	+0.2	+10.0	+0.0	+0.0	36.9	46.0	-9.1	Black
25	430.699k	27.6	+0.1	+0.1	+10.1	+0.1	+0.0	38.0	47.2	-9.2	Black
26	467.059k	27.0	+0.1	+0.1	+10.1	+0.1	+0.0	37.4	46.6	-9.2	Black
1											

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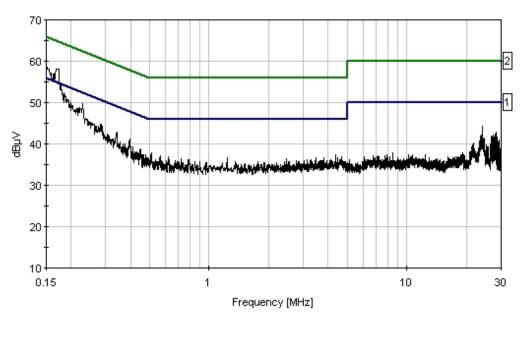
27	624.134k	26.4	+0.1	+0.1	+10.1	+0.1	+0.0	36.8	46.0	-9.2	Black
28	23.477M	30.2	+0.2	+0.4	+10.0	+0.0	+0.0	40.8	50.0	-9.2	Black
29	24.347M	30.3	+0.2	+0.3	+10.0	+0.0	+0.0	40.8	50.0	-9.2	Black
30	463.423k	26.9	+0.1	+0.1	+10.1	+0.1	+0.0	37.3	46.6	-9.3	Black
31	1.234M	26.2	+0.2	+0.1	+10.1	+0.1	+0.0	36.7	46.0	-9.3	Black
32	3.480M	26.3	+0.1	+0.2	+10.1	+0.0	+0.0	36.7	46.0	-9.3	Black
33	3.829M	26.4	+0.1	+0.1	+10.1	+0.0	+0.0	36.7	46.0	-9.3	Black
34	422.700k	27.8	+0.0	+0.1	+10.1	+0.0	+0.0	38.0	47.4	-9.4	Black
35	4.458M	26.3	+0.1	+0.1	+10.1	+0.0	+0.0	36.6	46.0	-9.4	Black
36	23.347M	30.0	+0.2	+0.4	+10.0	+0.0	+0.0	40.6	50.0	-9.4	Black
37	29.863M	29.9	+0.2	+0.4	+10.1	+0.0	+0.0	40.6	50.0	-9.4	Black
38	401.611k	28.1	+0.0	+0.1	+10.1	+0.0	+0.0	38.3	47.8	-9.5	Black
39	2.476M	26.2	+0.1	+0.1	+10.0	+0.1	+0.0	36.5	46.0	-9.5	Black
40	24.436M	30.0	+0.2	+0.3	+10.0	+0.0	+0.0	40.5	50.0	-9.5	Black
41	459.060k	26.7	+0.1	+0.1	+10.1	+0.1	+0.0	37.1	46.7	-9.6	Black
42	723.034k	26.0	+0.1	+0.2	+10.1	+0.0	+0.0	36.4	46.0	-9.6	Black
43	29.082M	29.7	+0.2	+0.4	+10.1	+0.0	+0.0	40.4	50.0	-9.6	Black
44	229.000k Ave	22.8	+0.1	+0.1	+10.0	+0.0	+0.0	33.0	52.5	-19.5	Black
٨	229.265k	39.5	+0.1	+0.1	+10.0	+0.0	+0.0	49.7	52.5	-2.8	Black
46	150.000k Ave	22.1	+3.3	+0.2	+10.0	+0.0	+0.0	35.6	56.0	-20.4	Black
٨	150.000k	45.2	+3.3	+0.2	+10.0	+0.0	+0.0	58.7	56.0	+2.7	Black
48	173.000k Ave	20.7	+2.4	+0.1	+10.0	+0.0	+0.0	33.2	55.3	-22.1	Black
^	172.543k	46.3	+1.8	+0.0	+10.0	+0.0	+0.0	58.1	54.8	+3.3	Black
50	24.018M Ave	15.9	+0.2	+0.3	+10.0	+0.0	+0.0	26.4	50.0	-23.6	Black
^	24.018M	33.8	+0.2	+0.3	+10.0	+0.0	+0.0	44.3	50.0	-5.7	Black
L											

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52 285.000k	16.5	+0.1	+0.1	+10.0	+0.0	+0.0	26.7	50.7	-24.0	Black
Ave										
^ 285.259k	34.6	+0.1	+0.1	+10.0	+0.0	+0.0	44.8	50.7	-5.9	Black
54 183.000k	17.7	+1.2	+0.1	+10.0	+0.0	+0.0	29.0	54.3	-25.3	Black
Ave										
^ 183.451k	41.1	+1.1	+0.1	+10.0	+0.0	+0.0	52.3	54.3	-2.0	Black
^ 185.633k	40.7	+1.0	+0.1	+10.0	+0.0	+0.0	51.8	54.2	-2.4	Black

CKC Laboratories, Inc. Date: 12/15/2008 Time: 09:26:01 Zylight LLC VVO#: 88886 FCC 15:207 COND [AVE] Test Lead: Black 120V 60Hz Sequence#: 34





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

Customer: Zylight LLC

Specification: FCC 15.207 COND [AVE]

Work Order #: 88886 Date: 12/15/2008
Test Type: Conducted Emissions Time: 09:35:09
Equipment: LED Camera Light with wireless Sequence#: 35

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice Model: Z90 120V 60Hz

S/N: 30000

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	11/20/2007	11/20/2009	02663
S.A., Display HP-85662A	2542A12169	11/20/2007	11/20/2009	02662
QP Adapter HP-85650A	2521A00909	11/20/2007	11/20/2009	00683
Cable, RG214		05/28/2008	05/28/2010	P02410
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1007	04/03/2007	04/03/2009	00494
TTE High Pass Filter	H4120	01/17/2007	01/17/2009	05258

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z 90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the table 10cm from the EUT. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. Transmitting on Ch5. LEDs are on. Temperature=23°C, Relative Humidity=45%. Frequency range tested: 0.15-30 MHz, RBW=9kHz, VBW=30kHz.

Transducer Legend:

8	
T1=TTE HP Filter	T2=Cable Calibration ANP02410
T3=AN P00081 10dB Attenuator	T4=LISN - AN00494 - White - ELC "OUT"

_	Measur	rement Data:	Re	eading list	ted by ma	argin.			Test Lead	d: White		
	#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
		MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
	1	264.170k	34.7	+0.1	+0.1	+10.0	+0.0	+0.0	44.9	51.3	-6.4	White
	2	259.807k	34.4	+0.1	+0.1	+10.0	+0.0	+0.0	44.6	51.4	-6.8	White
	3	29.116M	32.2	+0.2	+0.4	+10.1	+0.0	+0.0	42.9	50.0	-7.1	White
	4	27.944M	31.9	+0.2	+0.4	+10.0	+0.0	+0.0	42.5	50.0	-7.5	White

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5	274.351k	33.2	+0.1	+0.1	+10.0	+0.0	+0.0	43.4	51.0	-7.6	White
6	279.442k	33.0	+0.1	+0.1	+10.0	+0.0	+0.0	43.2	50.8	-7.6	White
7	285.259k	32.8	+0.1	+0.1	+10.0	+0.0	+0.0	43.0	50.7	-7.7	White
8	28.342M	31.7	+0.2	+0.4	+10.0	+0.0	+0.0	42.3	50.0	-7.7	White
9	319.438k	31.7	+0.1	+0.1	+10.0	+0.0	+0.0	41.9	49.7	-7.8	White
10	27.561M	31.4	+0.2	+0.4	+10.0	+0.0	+0.0	42.0	50.0	-8.0	White
11	400.884k	29.5	+0.0	+0.1	+10.1	+0.0	+0.0	39.7	47.8	-8.1	White
12	29.897M	31.2	+0.2	+0.4	+10.1	+0.0	+0.0	41.9	50.0	-8.1	White
13	272.170k	32.7	+0.1	+0.1	+10.0	+0.0	+0.0	42.9	51.1	-8.2	White
14	364.524k	30.2	+0.0	+0.1	+10.1	+0.0	+0.0	40.4	48.6	-8.2	White
15	29.507M	31.1	+0.2	+0.4	+10.1	+0.0	+0.0	41.8	50.0	-8.2	White
16	293.986k	31.9	+0.1	+0.1	+10.0	+0.0	+0.0	42.1	50.4	-8.3	White
17	27.170M	31.0	+0.2	+0.4	+10.0	+0.1	+0.0	41.7	50.0	-8.3	White
18	307.075k	31.4	+0.1	+0.1	+10.0	+0.0	+0.0	41.6	50.0	-8.4	White
19	26.005M	30.9	+0.2	+0.4	+10.0	+0.1	+0.0	41.6	50.0	-8.4	White
20	28.719M	31.0	+0.2	+0.4	+10.0	+0.0	+0.0	41.6	50.0	-8.4	White
21	291.077k	31.7	+0.1	+0.1	+10.0	+0.0	+0.0	41.9	50.5	-8.6	White
22	26.786M	30.7	+0.2	+0.4	+10.0	+0.1	+0.0	41.4	50.0	-8.6	White
23	315.074k	30.9	+0.1	+0.1	+10.0	+0.0	+0.0	41.1	49.8	-8.7	White
24	331.073k	30.6	+0.0	+0.1	+10.0	+0.0	+0.0	40.7	49.4	-8.7	White
25	347.071k	30.1	+0.0	+0.1	+10.1	+0.0	+0.0	40.3	49.0	-8.7	White
26	360.161k	29.6	+0.0	+0.1	+10.1	+0.0	+0.0	39.8	48.7	-8.9	White
27	25.622M	30.4	+0.2	+0.4	+10.0	+0.1	+0.0	41.1	50.0	-8.9	White
28	22.914M	30.2	+0.2	+0.4	+10.1	+0.1	+0.0	41.0	50.0	-9.0	White

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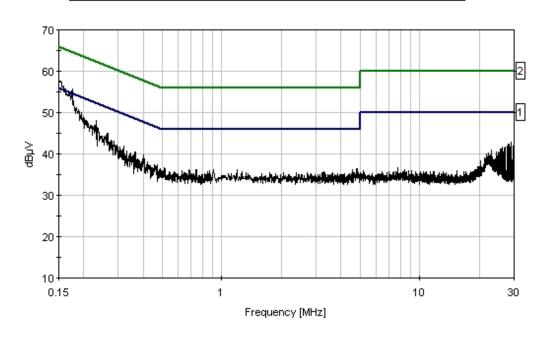
29	341.981k	29.9	+0.0	+0.1	+10.0	+0.0	+0.0	40.0	49.2	-9.2	White
30	355.070k	29.4	+0.0	+0.1	+10.1	+0.0	+0.0	39.6	48.8	-9.2	White
31	472.877k	27.0	+0.1	+0.1	+10.1	+0.0	+0.0	37.3	46.5	-9.2	White
32	343.435k	29.7	+0.0	+0.1	+10.0	+0.0	+0.0	39.8	49.1	-9.3	White
33	456.878k	27.1	+0.1	+0.1	+10.1	+0.0	+0.0	37.4	46.7	-9.3	White
34	300.530k	30.6	+0.1	+0.1	+10.0	+0.0	+0.0	40.8	50.2	-9.4	White
35	421.973k	27.8	+0.0	+0.1	+10.1	+0.0	+0.0	38.0	47.4	-9.4	White
36	513.600k	26.2	+0.1	+0.1	+10.1	+0.1	+0.0	36.6	46.0	-9.4	White
37	4.858M	26.2	+0.1	+0.1	+10.0	+0.1	+0.0	36.5	46.0	-9.5	White
38	26.396M	29.8	+0.2	+0.4	+10.0	+0.1	+0.0	40.5	50.0	-9.5	White
39	488.148k	26.1	+0.1	+0.1	+10.1	+0.1	+0.0	36.5	46.2	-9.7	White
40	685.219k	25.8	+0.1	+0.2	+10.1	+0.1	+0.0	36.3	46.0	-9.7	White
41	1.192M	25.8	+0.2	+0.1	+10.1	+0.1	+0.0	36.3	46.0	-9.7	White
42	466.332k	26.5	+0.1	+0.1	+10.1	+0.0	+0.0	36.8	46.6	-9.8	White
43	742.668k	25.7	+0.1	+0.2	+10.1	+0.1	+0.0	36.2	46.0	-9.8	White
44	22.364M	29.4	+0.2	+0.4	+10.1	+0.1	+0.0	40.2	50.0	-9.8	White
45	4.556M	25.7	+0.1	+0.2	+10.0	+0.1	+0.0	36.1	46.0	-9.9	White
46	176.000k Ave	26.9	+1.6	+0.0	+10.0	+0.0	+0.0	38.5	54.7	-16.2	White
٨	176.179k	44.0	+1.6	+0.0	+10.0	+0.0	+0.0	55.6	54.7	+0.9	White
48	231.000k Ave	20.7	+0.1	+0.1	+10.0	+0.0	+0.0	30.9	52.4	-21.5	White
٨	231.446k	37.9	+0.1	+0.1	+10.0	+0.0	+0.0	48.1	52.4	-4.3	White
٨	235.810k	36.3	+0.1	+0.1	+10.0	+0.0	+0.0	46.5	52.2	-5.7	White

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51 151.000k	21.0	+3.2	+0.2	+10.0	+0.0	+0.0	34.4	55.9	-21.5	White
Ave										
^ 151.454k	44.3	+3.2	+0.2	+10.0	+0.0	+0.0	57.7	55.9	+1.8	White
53 205.000k	16.7	+0.2	+0.1	+10.0	+0.0	+0.0	27.0	53.4	-26.4	White
Ave										
^ 205.267k	37.9	+0.2	+0.1	+10.0	+0.0	+0.0	48.2	53.4	-5.2	White

CKC Laboratories, Inc. Date: 12/15/2008 Time: 09:35:09 Zylight LLC WO#: 88886 FCC 15.207 COND [AVE] Test Lead: White 120V 60Hz Sequence#: 35



——— Sweep Data ——— 1 - FCC 15.207 COND [AVE] ——— 2 - FCC 15.207 COND [QP]



FCC 15.247(a)(2) - 6dB BANDWIDTH

Test Setup Photos



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Test Data Sheets

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

Customer: **Zylight LLC** Specification: **FCC 15.247(a)** (2)

Work Order #: 88886 Date: 12/8/2008
Test Type: Fundamentals Time: 11:27:56
Equipment: LED Camera Light with wireless Sequence#: 1

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 S/N: 30000

Test Equipment:

1 1				
Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the floor. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=245 MHz. RBW=100 kHz VBW=300 kHz.

Transducer Legend:

8	
T1=ANT AN02061 900MHz-18.5GHz	T2=Cable P01952 2'
11 111 111 102001 30011112 10.0 0112	12 Cubic 1 01/32 2
T3=CAB-ANP04241-050608	T4=CAB-ANP05138-050608
13-CAB-ANI 04241-030000	14-CAB-AIN 03130-030000
T5=AMP-AN00785-051607	
13-AMF-AN00783-031007	

Ext Attn: 0 dB

Test results from spectrum analyzer plots:

Ch1 6dB BW=1.590MHz. Ch5 6dB BW=1.600MHz Ch10 6dB BW=1.605MHz

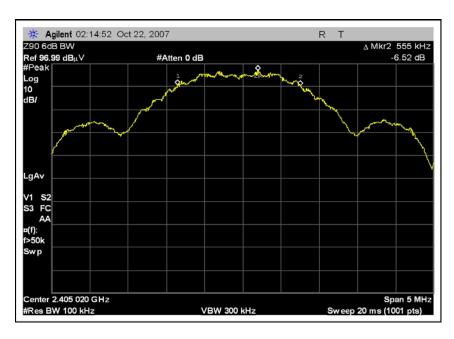
These pass the 15.247(a)(2) minimum requirement of 500kHz.

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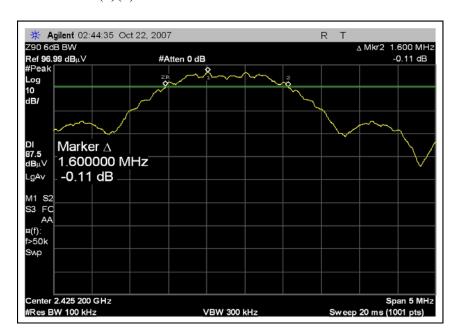


Test Plots

FCC 15.247(a)(2) 6dB BANDWIDTH CHANNEL 1



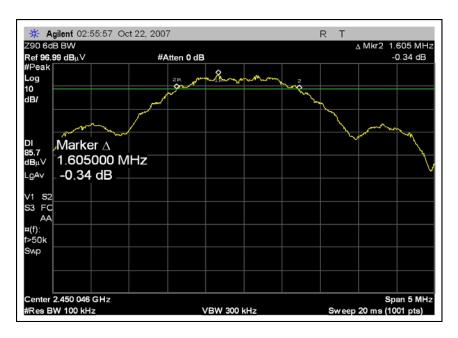
FCC 15.247(a)(2) 6dB BANDWIDTH CHANNEL 5



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FCC 15.247(a)(2) 6dB BANDWIDTH CHANNEL 10



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FCC 15.247(b)(3) – RF POWER OUTPUT

Test Setup Photos



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

Customer: **Zylight LLC**

Specification: FCC 15.247(b) (3) Rad-dBuV (6 dBi antenna)

 Work Order #:
 88886
 Date:
 12/8/2008

 Test Type:
 Fundamentals
 Time:
 11:27:56

Equipment: LED Camera Light with wireless Sequence#: 1

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 S/N: 30000

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the floor. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. RBW=3 MHz VBW=8 MHz (greater than the 6dB BW per KDB 558074).

Transducer Legend:

T1=ANT AN02061 900MHz-18.5GHz	T2=Cable P01952 2'	
T3=CAB-ANP04241-050608	T4=CAB-ANP05138-050608	
T5=AMP-AN00785-051607		

Ext Attn: 0 dB

M	1easu	rement Data:	Re	eading lis	ted by ma	ırgin.		Te	st Distanc	e: 3 Meters	S	
	#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
				T5								
		MHz	$dB\mu V$	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
	1	2404.330M	96.2	+28.5	+0.3	+0.8	+2.4	+0.0	91.9	133.0	-41.1	Horiz
				-36.3				229		Ch1		99
	2	2424.380M	96.1	+28.5	+0.3	+0.8	+2.5	+0.0	91.9	133.0	-41.1	Horiz
				-36.3				230		Ch5		99
	3	2449.261M	95.4	+28.5	+0.3	+0.8	+2.5	+0.0	91.2	133.0	-41.8	Horiz
				-36.3				242		Ch10		99

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4 2404.330M	93.5	+28.5	+0.3	+0.8	+2.4	+0.0	89.2	133.0	-43.8	Vert
		-36.3				350		Ch1		100
5 2424.400M	92.7	+28.5	+0.3	+0.8	+2.5	+0.0	88.5	133.0	-44.5	Vert
		-36.3				308		Ch5		100
6 2450.000M	91.6	+28.5	+0.3	+0.8	+2.5	+0.0	87.4	133.0	-45.6	Vert
		-36.3				258		Ch10		100

The maximum measured field strength was 91.9~dBuV/m at 3 meters. This calculates to .000117 Watts. Passes, as this is less than the 1 watt limit for 15.247(b).

FCC 15.247(d) - BAND EDGE

Test Setup Photos



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

Customer: Zylight LLC

Specification: FCC 15.247d+15.209 Band Edge

Work Order #: 88886 Date: 12/8/2008
Test Type: Band Edge Measurements Time: 16:13:34
Equipment: LED Camera Light with wireless Sequence#: 4

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 S/N: 30000

Test Equipment:

z car z quop ment				
Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the floor. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. RBW=100 kHz VBW=300 kHz Measuring maximum emission in authorized band using 100kHz RBW.

Transducer Legend:

Transaucer Legena.		
T1=ANT AN02061 900MHz-18.5GHz	T2=Cable P01952 2'	
T3=CAB-ANP04241-050608	T4=CAB-ANP05138-050608	
T5=AMP-AN00785-051607		

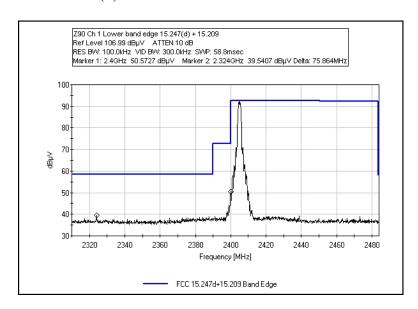
Measu	rement Data:	Re	eading lis	ted by ma	argin.		Τe	est Distanc	e: 3 Meters	ı	
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\muV/m$	dB	Ant
1	2450.250M	90.9	+28.5	+0.3	+0.8	+2.5	+0.0	86.7	88.3	-1.6	Horiz
			-36.3				230		Fundamen	tal Ch10	100
2	2405.004M	90.7	+28.5	+0.3	+0.8	+2.4	+0.0	86.4	88.3	-1.9	Horiz
			-36.3				231		Fundamen	tal Ch1	100
3	2324.094M	39.5	+28.6	+0.2	+0.8	+2.4	+0.0	35.1	54.0	-18.9	Horiz
			-36.4				231		TX Ch1		100
4	2484.150M	36.6	+28.5	+0.3	+0.8	+2.5	+0.0	32.5	54.0	-21.5	Horiz
			-36.2				230		TX Ch10		100
5	2399.958M	50.6	+28.5	+0.3	+0.8	+2.4	+0.0	46.3	68.3	-22.0	Horiz
			-36.3				231		TX Ch1		100

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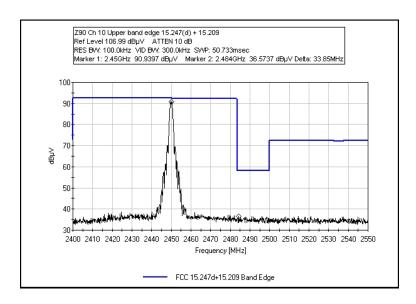


Plots

FCC 15.247(d) LOWER BAND EDGE CHANNEL 1



FCC 15.247(d) UPPER BAND EDGE CHANNEL 10



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FCC 15.247(d) – OATS RADIATED SPURIOUS EMISSIONS

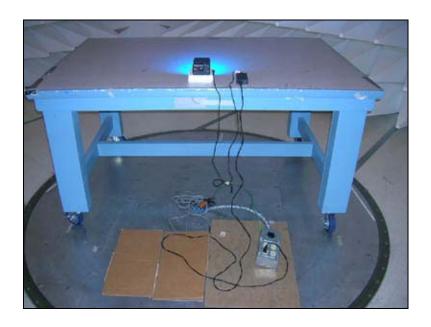
Test Setup Photos

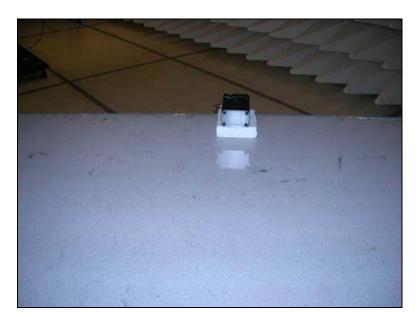




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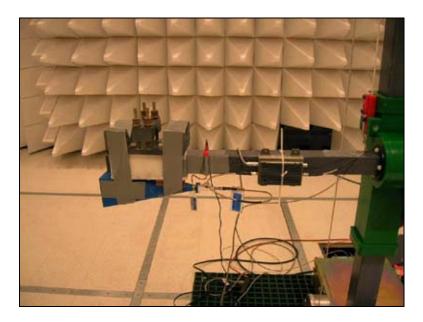












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Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: Zylight LLC

Specification: FCC 15.247(d)/15.209 Spurious/Harmonics 30MHz to 100 GHz
Work Order #: 88886 Date: 12/10/2008
Test Type: Spurious Emissions Maximized Time: 16:37:49
Equipment: LED Camera Light with wireless Sequence#: 21

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 S/N: 30000

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952
Cable	None	04/21/2008	04/21/2010	P05440
Preamp, HP8447D	2443A03707	02/05/2007	02/05/2009	00730
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299
Antenna, Bilog	2630	12/30/2006	12/30/2008	00852
Mag Loop - 6502	2078	06/11/2007	06/11/2009	00432
3.5GHz HP Filter	PN 84300-80038	04/01/2008	04/01/2010	P01416
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Cable	none	07/16/2008	07/16/2010	05843
Cable	none	04/02/2008	04/02/2010	05735
HF cable 24"	32022-2-29094K-24TC	02/04/2008	02/04/2010	03015
18-26.5GHz WaveGuide	n/a	02/11/2008	02/11/2010	P00929
Active Horn 18-26GHz	1087835	09/21/2007	09/21/2009	02694

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Tunction	Manufacturei	WIOUCI #	D/1N	
LED Camera Light with	Zylight LLC	Z 90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the table 10cm from the camera light. The cord is bundled to 40 cm above ground. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. 9kHz-150kHz, RBW=200Hz, VBW=200Hz, 150kHz-30MHz, RBW=9kHz, VBW=30kHz, 30-1000MHz RBW=120kHz, VBW=360kHz, 1-25GHz RBW=1 MHz VBW=30 kHz. Transmit on Ch 1, 5, 10. LEDs are on. 1 pass through ferrite on DC cord at power supply. (Etronic F5-NF-50W-02). Emissions below 1000 MHz were not affected by the transmitter channel selection.

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Transducer Legend:
T1=ANT AN00852 25-1000MHz T2=Cable Calibration ANP05299 T3=Cable Calibration ANP05300 T4=Cable Calibration ANP05440 T5=AMP-AN00730-020507 T6=ANT AN02061 900MHz-18.5GHz T7=Cable P01952 2' T8=CAB-ANP04241-050608 T9=CAB-ANP05138-050608 T10=AMP-AN00785-051607 T12=Mag Loop - AN 00432- 9kHz-30M T11=HPF 3.5 GHz High Pass

Measi	urement Data:	Re	eading lis	ted by ma	margin. Test Distance: 3 Meters						
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11	T12					
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$		dB	Ant
1	59.357M	58.9	+6.6	+0.1	+0.2	+0.5	+0.0	39.1	40.0	-0.9	Vert
	QP		-27.2	+0.0	+0.0	+0.0	358				99
			+0.0	+0.0	+0.0						
^	59.345M	59.7	+6.6	+0.1	+0.2	+0.5	+0.0	39.9	40.0	-0.1	Vert
			-27.2	+0.0	+0.0	+0.0	358				99
			+0.0	+0.0	+0.0						
3	36.859M	48.8	+16.4	+0.0	+0.2	+0.3	+0.0	38.5	40.0	-1.5	Vert
	QP		-27.2	+0.0	+0.0	+0.0	145				99
			+0.0	+0.0	+0.0						
^	36.854M	51.0	+16.4	+0.0	+0.2	+0.3	+0.0	40.7	40.0	+0.7	Vert
			-27.2	+0.0	+0.0	+0.0	145				99
			+0.0	+0.0	+0.0						
5	55.459M	57.3	+7.5	+0.1	+0.2	+0.4	+0.0	38.3	40.0	-1.7	Vert
	QP		-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						
^	55.489M	58.8	+7.5	+0.1	+0.2	+0.4	+0.0	39.8	40.0	-0.2	Vert
			-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						
7	37.625M	49.0	+15.9	+0.1	+0.1	+0.4	+0.0	38.2	40.0	-1.8	Vert
	QP		-27.3	+0.0	+0.0	+0.0	145				99
			+0.0	+0.0	+0.0						
^	37.658M	51.1	+15.8	+0.1	+0.1	+0.4	+0.0	40.2	40.0	+0.2	Vert
			-27.3	+0.0	+0.0	+0.0	145				99
			+0.0	+0.0	+0.0						
9	55.853M	57.2	+7.4	+0.1	+0.2	+0.4	+0.0	38.1	40.0	-1.9	Vert
	QP		-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						
^	55.863M	58.6	+7.4	+0.1	+0.2	+0.4	+0.0	39.5	40.0	-0.5	Vert
			-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						
11	55.085M	57.0	+7.6	+0.1	+0.2	+0.4	+0.0	38.1	40.0	-1.9	Vert
	QP		-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						
٨	55.071M	58.9	+7.6	+0.1	+0.2	+0.4	+0.0	40.0	40.0	+0.0	Vert
			-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						

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13		57.1	+7.3	+0.1	+0.2	+0.4	+0.0	37.9	40.0	-2.1	Vert
	QP		-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						
^	56.242M	58.5	+7.3	+0.1	+0.2	+0.4	+0.0	39.3	40.0	-0.7	Vert
			-27.2	+0.0	+0.0	+0.0	42				99
			+0.0	+0.0	+0.0						
15		57.2	+6.4	+0.1	+0.2	+0.4	+0.0	37.1	40.0	-2.9	Vert
	QP		-27.2	+0.0	+0.0	+0.0	10				99
			+0.0	+0.0	+0.0						
^	60.878M	58.1	+6.4	+0.1	+0.2	+0.4	+0.0	38.0	40.0	-2.0	Vert
			-27.2	+0.0	+0.0	+0.0	10				99
			+0.0	+0.0	+0.0						
17		54.7	+8.9	+0.0	+0.2	+0.4	+0.0	36.9	40.0	-3.1	Vert
	QP		-27.3	+0.0	+0.0	+0.0	160				99
			+0.0	+0.0	+0.0						
٨	50.408M	57.8	+8.9	+0.0	+0.2	+0.4	+0.0	40.0	40.0	+0.0	Vert
			-27.3	+0.0	+0.0	+0.0	160				99
			+0.0	+0.0	+0.0						
19		54.6	+8.7	+0.0	+0.2	+0.5	+0.0	36.7	40.0	-3.3	Vert
	QP		-27.3	+0.0	+0.0	+0.0	30				99
			+0.0	+0.0	+0.0				40.0		
٨	51.225M	57.2	+8.7	+0.0	+0.2	+0.5	+0.0	39.3	40.0	-0.7	Vert
			-27.3	+0.0	+0.0	+0.0	30				99
	464707		+0.0	+0.0	+0.0	0.4	0.0	25.4	40.0	2.5	**
21	46.156M	52.2	+10.9	+0.1	+0.1	+0.4	+0.0	36.4	40.0	-3.6	Vert
			-27.3	+0.0	+0.0	+0.0	205				100
22	66.71014	55.0	+0.0	+0.0	+0.0	. 0. 4	. 0. 0	25.0	40.0	4.2	77 .
22		55.8	+6.5	+0.1	+0.2	+0.4	+0.0	35.8	40.0	-4.2	Vert
	QP		-27.2	+0.0	+0.0	+0.0	9				99
^	66.716M	<i>5</i> 0.4	+0.0	+0.0	+0.0	. 0. 4	. 0. 0	20.4	40.0	0.6	T 14
,	66.716M	59.4	+6.5	+0.1	+0.2	+0.4	+0.0	39.4	40.0	-0.6	Vert
			-27.2	+0.0	+0.0	+0.0	9				99
24	35.690M	43.1	+0.0	+0.0	+0.0	ι Ο 4	+0.0	33.6	40.0	-6.4	Vont
24		43.1	+17.1 -27.2	$+0.0 \\ +0.0$	+0.2 +0.0	+0.4 +0.0	+0.0 367	33.0	40.0	-0.4	Vert 99
	QP				+0.0 +0.0	+0.0	307				77
^	35.686M	46.8	+0.0 +17.1	+0.0	+0.0	+0.4	+0.0	37.3	40.0	-2.7	Vert
	33.080101	40.8	+17.1 -27.2	+0.0 +0.0	+0.2	+0.4 +0.0		31.3	40.0	-2.1	vert 99
			+0.0	+0.0 +0.0	+0.0 +0.0	+0.0	307				フフ
26	158.283M	51.4	+11.1	+0.0	+0.0	+0.8	+0.0	36.5	43.5	-7.0	Vert
20	QP	J1. 4	+11.1 -27.2	+0.2 +0.0	+0.2 $+0.0$	+0.8 $+0.0$	+0.0 258	50.5	43.3	-7.0	99
	Ųι		+0.0	+0.0	+0.0 +0.0	+0.0	230				27
٨	158.288M	56.1	+11.1	+0.0	+0.0	+0.8	+0.0	41.2	43.5	-2.3	Vert
	130.200W	50.1	+11.1 -27.2	+0.2 +0.0	+0.2 $+0.0$	+0.8 $+0.0$	+0.0 258	41.2	43.3	-2.3	99
			+0.0	+0.0 +0.0	+0.0 +0.0	+0.0	230				27
			+0.0	+0.0	+0.0						

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28 4809.939M	42.6	+0.0	+0.0	+0.0	+0.0	+0.0	46.4		-7.6	Vert
Ave		+0.0	+33.1	+0.5	+1.1	129		Ch1		127
		+3.6	-34.9	+0.4						
^ 4809.942M	44.6	+0.0	+0.0	+0.0	+0.0	+0.0	48.4	54.0	-5.6	Vert
		+0.0	+33.1	+0.5	+1.1	129		Ch1		127
		+3.6	-34.9	+0.4						
30 160.937M	50.8	+10.9	+0.2	+0.2	+0.8	+0.0	35.7	43.5	-7.8	Horiz
		-27.2	+0.0	+0.0	+0.0	154				196
		+0.0	+0.0	+0.0						
31 4809.931M	41.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.1		-8.9	Horiz
Ave		+0.0	+33.1	+0.5	+1.1	242		Ch1		108
4 4000 0201 5	44.0	+3.6	-34.9	+0.4	0.0	0.0	40.4	7.1. 0	. .	** '
^ 4809.838M	44.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.1	54.0	-5.9	Horiz
		+0.0	+33.1	+0.5	+1.1	240		Ch1		108
22 4040 02014	40.6	+3.6	-34.9	+0.4	. 0. 0	. 0. 0	44.7	7.4.0	0.2	3.7
33 4849.938M	40.6	+0.0	+0.0	+0.0	+0.0	+0.0	44.7	54.0	-9.3	Vert
Ave		+0.0 +3.7	+33.2	+0.6	+1.2	133		Ch5		127
A 4040.050M	42.1		-35.0	+0.4	. 0. 0	. 0. 0	47.0	54.0	<i>C</i> 0	X It
^ 4849.958M	43.1	+0.0	+0.0	+0.0	+0.0	+0.0	47.2		-6.8	Vert
		+0.0 +3.7	+33.2	+0.6	+1.2	133		Ch5		127
35 4899.936M	40.2	+0.0	-35.0 +0.0	+0.4	+0.0	+0.0	115	54.0	-9.5	Vert
Ave	40.2	+0.0 +0.0	+33.3	+0.0	+0.0	+0.0 121	44.3	Ch10	-9.3	127
Avc		+3.7	-35.0	+0.7	⊤1.∠	121		CIIIO		127
^ 4899.958M	42.3	+0.0	+0.0	+0.0	+0.0	+0.0	46.6	54.0	-7.4	Vert
4099.930W	42.3	+0.0	+33.3	+0.7	+1.2	121	40.0	Ch10	-7.4	127
		+3.7	-35.0	+0.4	11.2	121		CIIIO		127
37 4849.927M	39.3	+0.0	+0.0	+0.0	+0.0	+0.0	43.4	54.0	-10.6	Horiz
Ave	37.3	+0.0	+33.2	+0.6	+1.2	245	43.4	Ch5	10.0	108
		+3.7	-35.0	+0.4				0110		100
^ 4849.920M	42.1	+0.0	+0.0	+0.0	+0.0	+0.0	46.2	54.0	-7.8	Horiz
10191920111		+0.0	+33.2	+0.6	+1.2	245		Ch5	,,,	108
		+3.7	-35.0	+0.4		-				
39 4899.933M	38.6	+0.0	+0.0	+0.0	+0.0	+0.0	42.9	54.0	-11.1	Horiz
Ave		+0.0	+33.3	+0.7	+1.2	245		Ch10		104
		+3.7	-35.0	+0.4						
^ 4899.981M	41.4	+0.0	+0.0	+0.0	+0.0	+0.0	45.7	54.0	-8.3	Horiz
		+0.0	+33.3	+0.7	+1.2	245		Ch10		104
		+3.7	-35.0	+0.4						
41 578.605k	28.0	+0.0	+0.0	+0.0	+0.1	-20.0	17.9	32.3	-14.4	Vert
Ave		+0.0	+0.0	+0.0	+0.0	300				100
		+0.0	+0.0	+0.0	+9.8					
^ 578.688k	41.3	+0.0	+0.0	+0.0	+0.1	-20.0	31.2	32.3	-1.1	Vert
		+0.0	+0.0	+0.0	+0.0	300				100
		+0.0	+0.0	+0.0	+9.8					

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43 373.80	00k 30.8	+0.0	+0.1	+0.0	+0.1	-40.0	0.7	16.1	-15.4	Vert
Ave		+0.0	+0.0	+0.0	+0.0	285				100
		+0.0	+0.0	+0.0	+9.7					
^ 373.69	91k 42.9	+0.0	+0.1	+0.0	+0.1	-40.0	12.8	16.2	-3.4	Vert
		+0.0	+0.0	+0.0	+0.0	285				100
		+0.0	+0.0	+0.0	+9.7					
45 450.90	03k 29.4	+0.0	+0.0	+0.0	+0.1	-40.0	-0.9	14.5	-15.4	Horiz
Ave		+0.0	+0.0	+0.0	+0.0	182				100
		+0.0	+0.0	+0.0	+9.6					
^ 450.95	55k 40.8	+0.0	+0.0	+0.0	+0.1	-40.0	10.5	14.5	-4.0	Horiz
		+0.0	+0.0	+0.0	+0.0	182				100
		+0.0	+0.0	+0.0	+9.6					
47 421.88	36k 29.7	+0.0	+0.1	+0.0	+0.1	-40.0	-0.4	15.1	-15.5	Vert
Ave		+0.0	+0.0	+0.0	+0.0	194				100
		+0.0	+0.0	+0.0	+9.7					
^ 421.80	06k 42.3	+0.0	+0.1	+0.0	+0.1	-40.0	12.2	15.1	-2.9	Vert
		+0.0	+0.0	+0.0	+0.0	194				100
		+0.0	+0.0	+0.0	+9.7					
49 409.15	50k 30.0	+0.0	+0.1	+0.0	+0.1	-40.0	-0.1	15.4	-15.5	Horiz
Ave		+0.0	+0.0	+0.0	+0.0	15				100
		+0.0	+0.0	+0.0	+9.7					
^ 409.30	01k 42.0	+0.0	+0.1	+0.0	+0.1	-40.0	11.9	15.4	-3.5	Horiz
		+0.0	+0.0	+0.0	+0.0	15				100
		+0.0	+0.0	+0.0	+9.7					
51 361.04	l4k 30.9	+0.0	+0.1	+0.0	+0.1	-40.0	0.8	16.5	-15.7	Horiz
Ave		+0.0	+0.0	+0.0	+0.0	88				100
		+0.0	+0.0	+0.0	+9.7					
^ 361.00	01k 42.9	+0.0	+0.1	+0.0	+0.1	-40.0	12.8	16.5	-3.7	Horiz
		+0.0	+0.0	+0.0	+0.0	88				100
		+0.0	+0.0	+0.0	+9.7					

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FCC 15.247(e) – PEAK POWER SPECTRAL DENSITY

Test Setup Photos



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

Customer: **Zylight LLC**

Specification: FCC 15.247(e) PSD-dBuV

Work Order #: 88886 Date: 12/11/2008
Test Type: Power Spectral Density Time: 15:31:24
Equipment: LED Camera Light with wireless Sequence#: 31

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 S/N: 30000

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the floor. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. RBW=3 kHz VBW=9 kHz sweep=100s. Frequency range 2404-2451 MHz.

Transducer Legend:

T1=ANT AN02061 900MHz-18.5GHz	T2=Cable P01952 2'
T3=CAB-ANP04241-050608	T4=CAB-ANP05138-050608
T5=AMP-AN00785-051607	

Ext Attn: 0 dB

Meas	urement Data:	Re	Reading listed by margin.			Test Distance: 3 Meters			s		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	2425.079M	80.8	+28.5	+0.3	+0.8	+2.5	+10.0	86.6	115.0	-28.4	Horiz
			-36.3				241		Ch5		101
2	2405.403M	80.6	+28.5	+0.3	+0.8	+2.4	+10.0	86.3	115.0	-28.7	Horiz
			-36.3				241		Ch1		101
3	2449.533M	80.4	+28.5	+0.3	+0.8	+2.5	+10.0	86.2	115.0	-28.8	Horiz
			-36.3				241		Ch10		101

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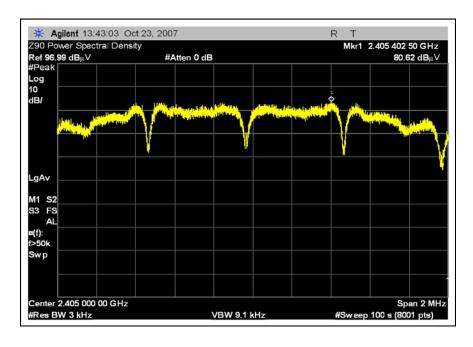


15.247(e) Power Spectral Density

Frequency (MHz)	Power Spectral Density	Pass/Fail
	(dBm)	
2405	-22.2	Pass
2425	-21.9	Pass
2450	-22.3	Pass

Plots

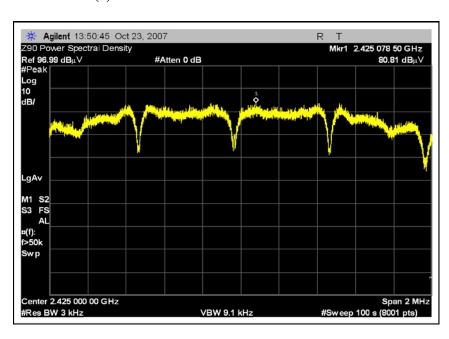
FCC 15.247(e) PEAK POWER SPECTRAL DENSITY CHANNEL 1



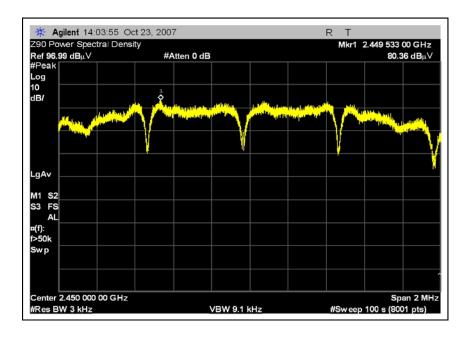
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FCC 15.247(e) PEAK POWER SPECTRAL DENSITY CHANNEL 5



FCC 15.247(e) PEAK POWER SPECTRAL DENSITY CHANNEL 10



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<u>RSS-210 – 99% BANDWIDTH</u>

Test Setup Photos



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

Customer: **Zylight LLC**

Specification:

Work Order #: 88886 Date: 12/8/2008 Test Type: **Occupied Bandwidth** Time: 16:37:39 Sequence#: 5

Equipment: **LED Camera Light with wireless**

connectivity

Manufacturer: Zylight LLC Tested By: Art Rice

Model: Z90 30000 S/N:

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
Preamp, HP83017A	3123A00283	05/16/2007	05/16/2009	00785
Antenna, Horn 1-18 GHz	1064	03/19/2007	03/19/2009	02061
HF Cable		03/27/2007	03/27/2009	01952

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
LED Camera Light with	Zylight LLC	Z 90	30000	
wireless connectivity*				

Support Devices:

Function	Manufacturer	Model #	S/N
Power supply	CINCON	TR36A-12	36120-0016027

Test Conditions / Notes:

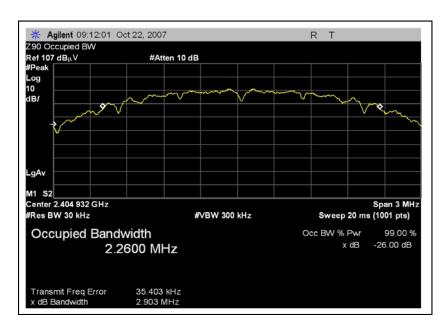
The EUT is placed on the test table supported by a 3.5cm thick styrofoam block. The EUT is in a normal position with the tripod thread facing down and the display at the top. The power supply is placed on the floor. Transmitting continuously with modulation. Ch1=2405MHz, Ch5=2425MHz, Ch10=2450MHz. RBW=30 kHz VBW=300 kHz.

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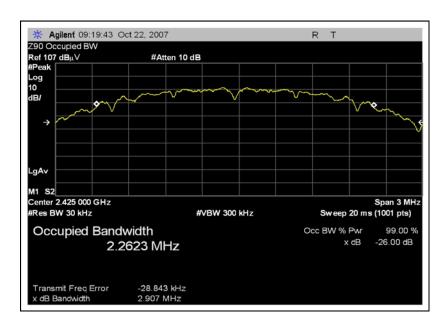


Test Plots

RSS-210 99% BANDWIDTH CHANNEL 1



RSS-210 99% BANDWIDTH CHANNEL 5



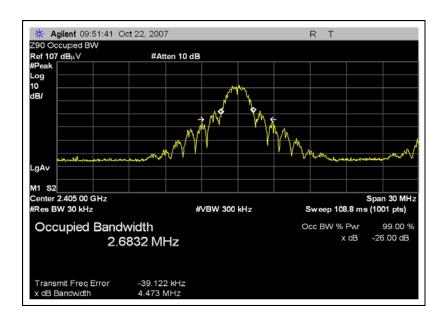
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RSS-210 99% BANDWIDTH CHANNEL 11



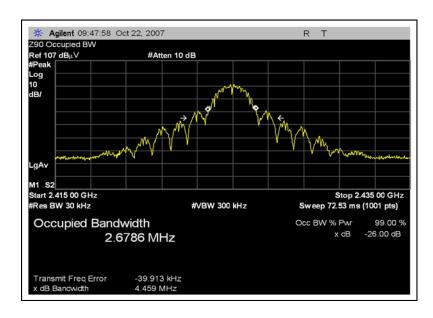
RSS-210 99% BANDWIDTH 20M SPAN CHANNEL 1



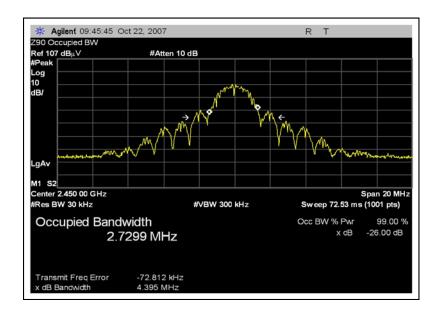
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RSS-210 99% BANDWIDTH 20M SPAN CHANNEL 5



RSS-210 99% BANDWIDTH 20M SPAN CHANNEL 11



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