FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

Light Sensor

MODEL NUMBER: SNS100

FCC ID: 2AF2N-SNS100
IC: 20659-SNS100

REPORT NUMBER: 10975967A

ISSUE DATE: November 2, 2015

Prepared for
Philips Lighting North America Corp.
O'Hare International Center
10275 W. Higgins Rd
Rosemont, IL 60018

Prepared by
UL LLC
333 Pfingsten Rd.
Northbrook, IL 60062
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NVLAP Lab code: 100414-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	02-NOV-2015	Initial Issue	BM

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Philips Lighting Norht America Corp
O'Hare Internation Center
10275 W. Higgins Rd
Rosemont, IL 60018

EUT DESCRIPTION: Light Sensor

MODEL: SNS100

SERIAL NUMBER: non serialized

DATE TESTED: 2015-OCT-01 to 2015-OCT-30

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 2	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Test Engineer:

Bartlomiej Mucha
Staff Engineer
Consumer Technology Division

Reviewer:

Michael Ferrer
Program Manager
Consumer Technology Division

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 4 and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 333 Pfingsten Road, Northbrook, IL 60062 USA.

UL NBK is accredited by NVLAP, Laboratory Code 100414-0. The full scope of accreditation can be viewed at http://www.nist.gov

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Sample Calculations
Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:
Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)
Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)
Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test	Range	Equipment	Uncertainty k=2
Radiated Emissions	30-200MHz	Bicon 10m Horz	4.27dB
Radiated Emissions	30-200MHz	Bicon 10m Vert	4.28dB
Radiated Emissions	200-1000MHz	LogP 10m Horz	3.33dB
Radiated Emissions	200-1000MHz	LogP 10m Vert	3.39dB
Radiated Emissions	1-6GHz	Horn	5.02dB
Radiated Emissions	6-18GHz	Horn	5.34dB
Radiated Emissions	18-26GHz	Horn	6.60dB
Conducted Ant Port	30MHz-26GHz	Spectrum Analyzer	2.94

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Light Sensor with built in 2.4GHz transceiver

5.2. MAXIMUM OUTPUT E-FIELD STRENGTH

The transmitter has a maximum output average E-field as follows:

Frequency Range (MHz)	Mode	Output AV E-field Strength (dBuV/m)
2405-2480	TX	93.63

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna, with a maximum gain of -2.0 dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was version 6.12.

5.5. WORST-CASE CONFIGURATION AND MODE

EUT can be mounted in single orientation therefore only single axis were tested. The device has only one operating mode.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
LED Electronic DRiver	Philips	XI040C110V054VPT1	-	-

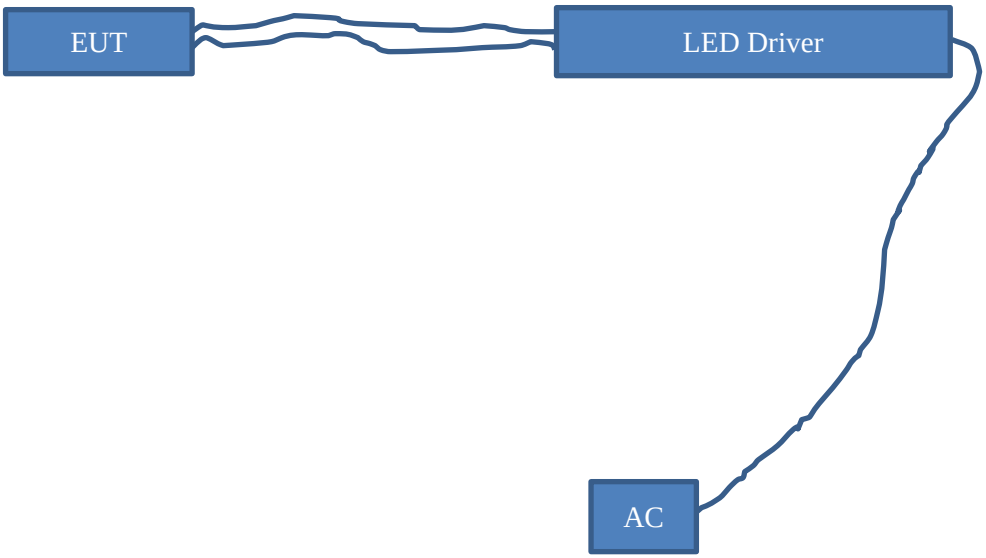
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Power & IO	1	WiredIn	standard two wire	> 3m	Used as power and Contrl lines

TEST SETUP

The EUT is a stand alone sensor which is powered by LED driver.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List					
Description	**Manufacturer**	**Model**	**T No.**	**Cal Date**	**Cal Due**
Radiated Software	UL	UL EMC	Ver 9.5, July 22, 2014		
Conducted Software	UL	UL EMC	Ver 9.5, May 17 2012		
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	20141216	20151231
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	20141830	20151231
Bicon Antenna	Electro-Metrics	EM6912A	EMC4070	20141014	20151031
Log-P Antenna	Chase	UPA6109	EMC4313	20141119	20151130
Loop Antenna	EMCO	6502/1	EMC4026	20150420	20160430
Antenna Array	UL	BOMS	EMC4276	20141201	20151231
Spectrum Analyzer	Agilent	N9030A (PXA)	EMC4360	20141219	20151219
EMI Test Receiver	Rohde & Schwarz	ESR	EMC4377	20150423	20160423
Transient Limiter	Electro-Metrics	EM7600-2	EMC4224	N/A	N/A
HighPass Filter	Solar Electronics	2803-150	885551	N/A	N/A
Attenuator	HP	8494B	2831A00838	N/A	N/A
LISN - L1	Solar	8602-50-TS-50-N	EMC4052	9-Jan-15	10-Jan-16
LISN - L2	Solar	8602-50-TS-50-N	EMC4064	9-Jan-15	10-Jan-16

7. TEST RESULTS

7.1.1. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

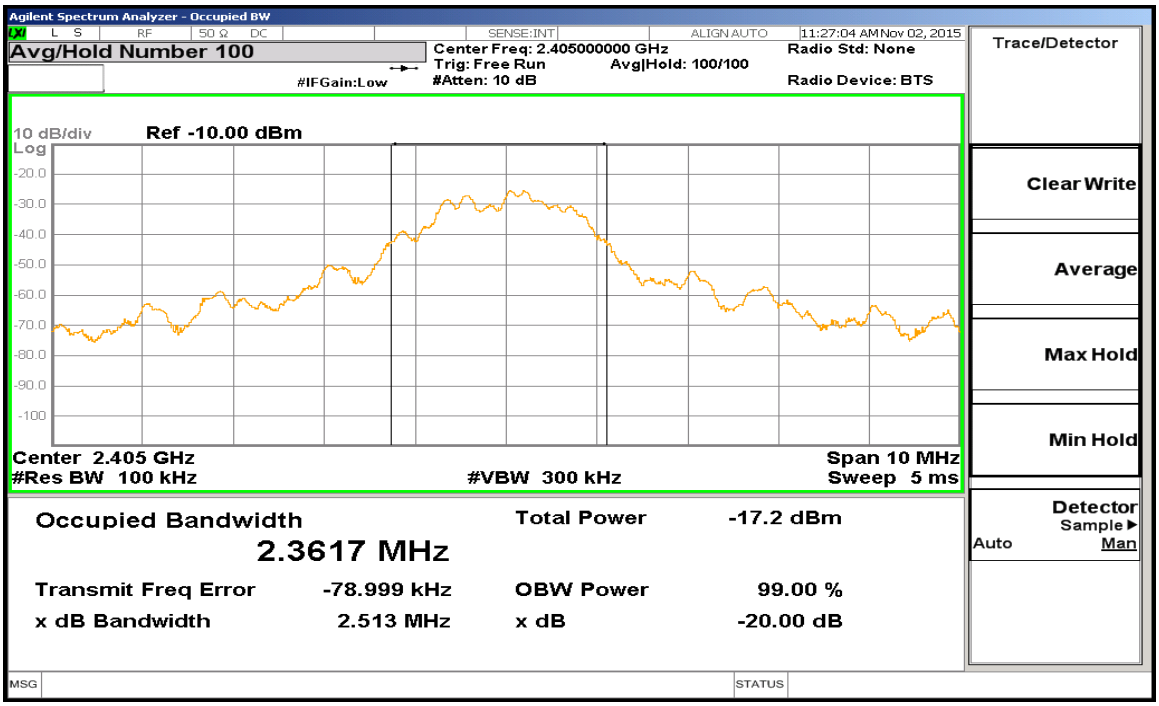
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

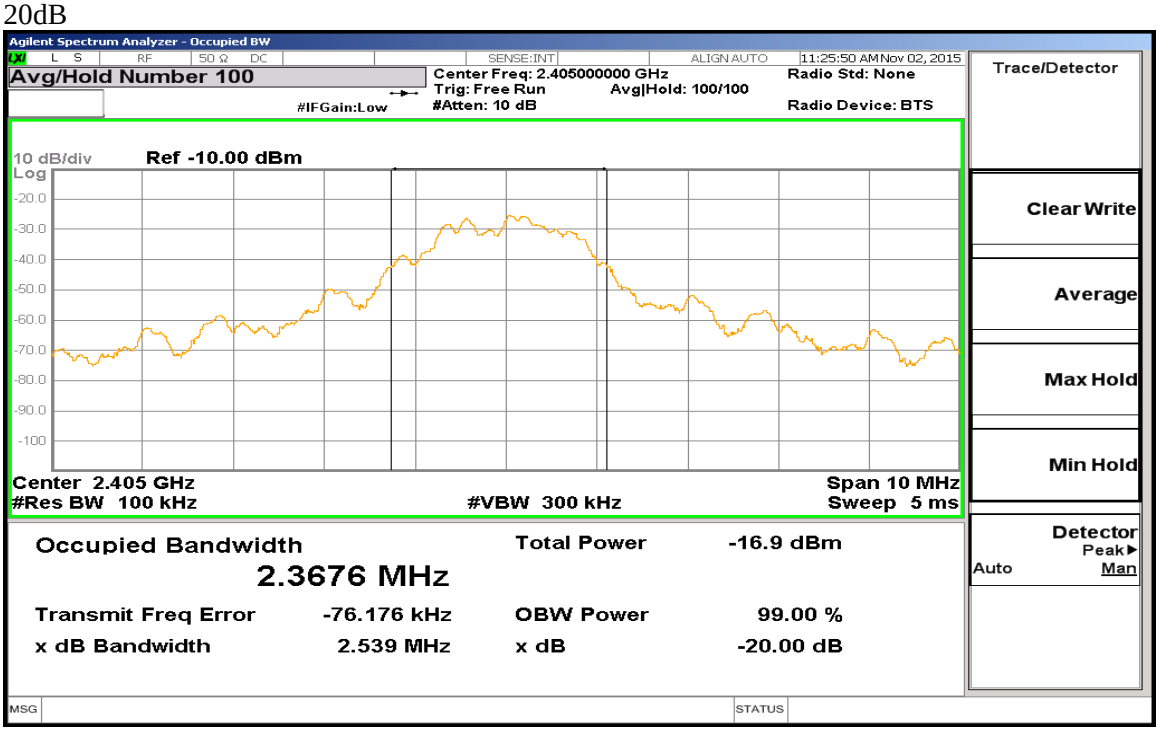
Channel	Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)
Low	2405	2.3617	2.539
Middle	2440	2.8888	2.597
High	2480	2.5445	2.597

Low Channel Bandwidth

99%

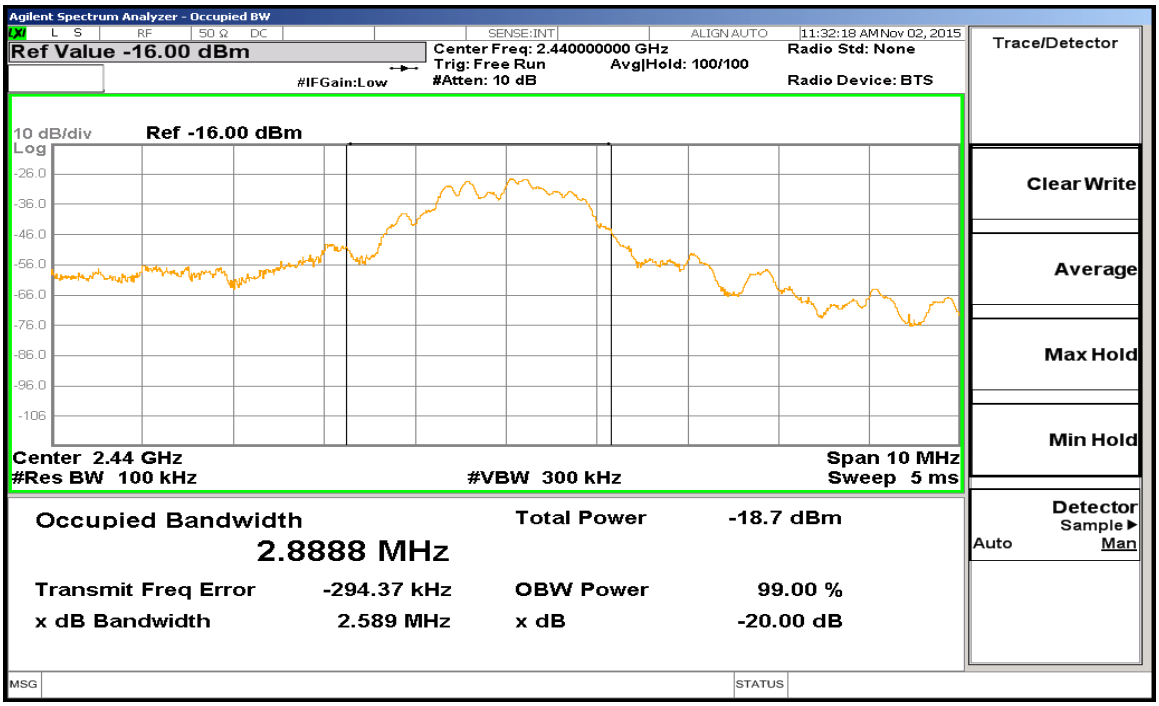


20dB

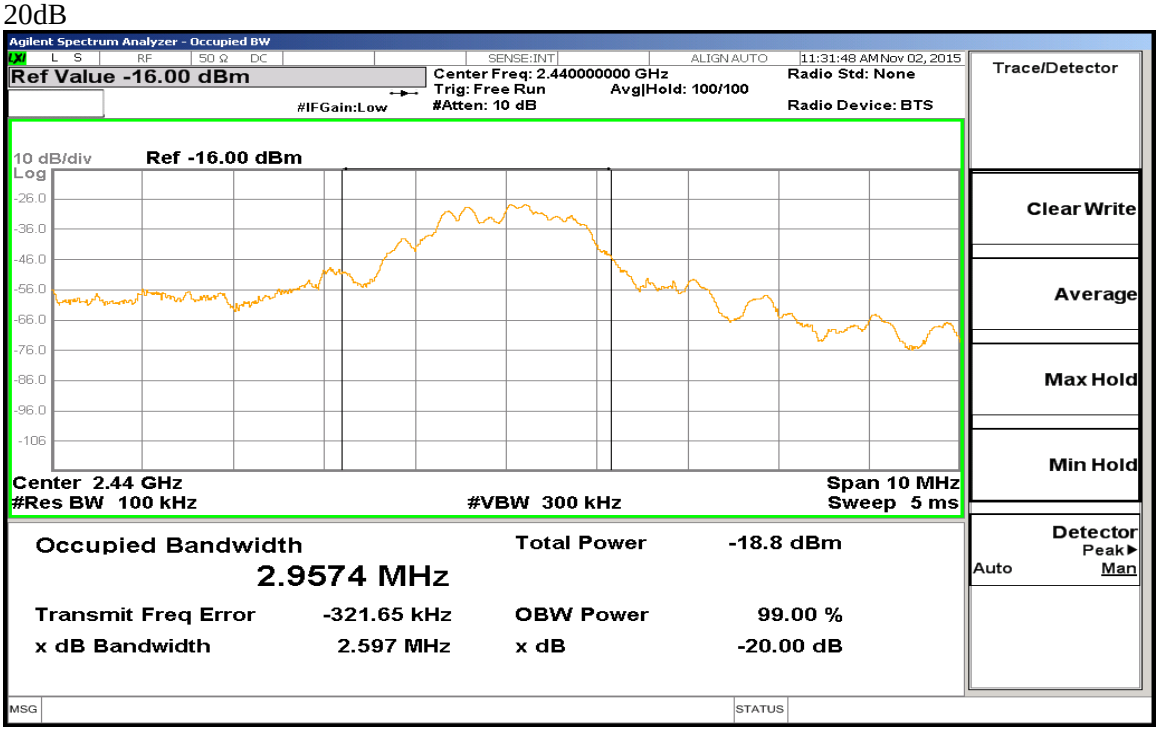


Middle Channel Bandwidth

99%

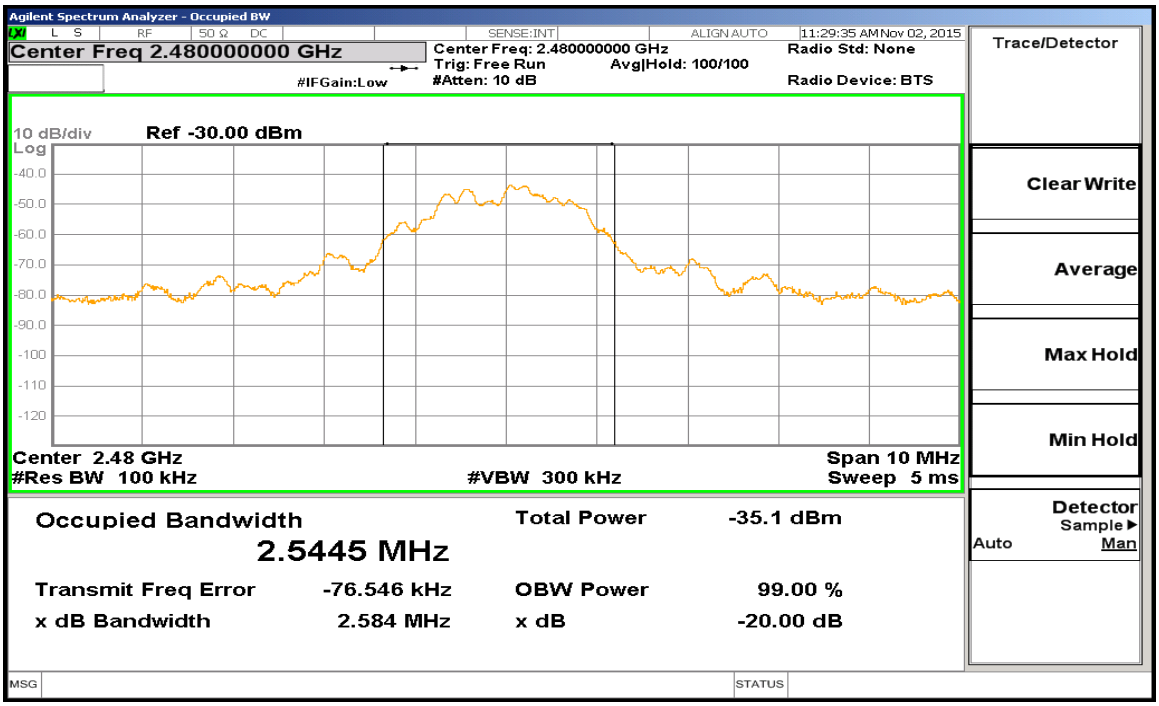


20dB

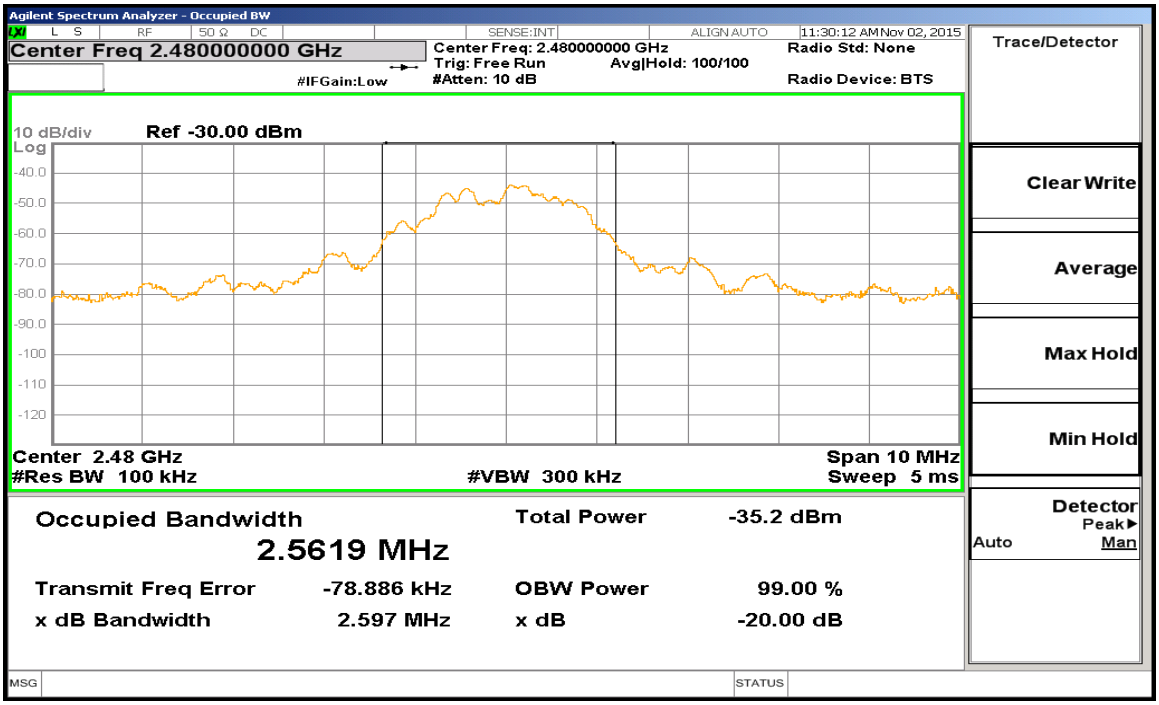


High Channel Bandwidth

99%



20dB



7.2. RADIATED EMISSIONS

LIMIT

IC RSS-210, A2.9
FCC 15.249

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHZ, and 24.0–24.25 GHz.
(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100 **	3
88–216	150 **	3
216–960	200 **	3
Above 960	500	3

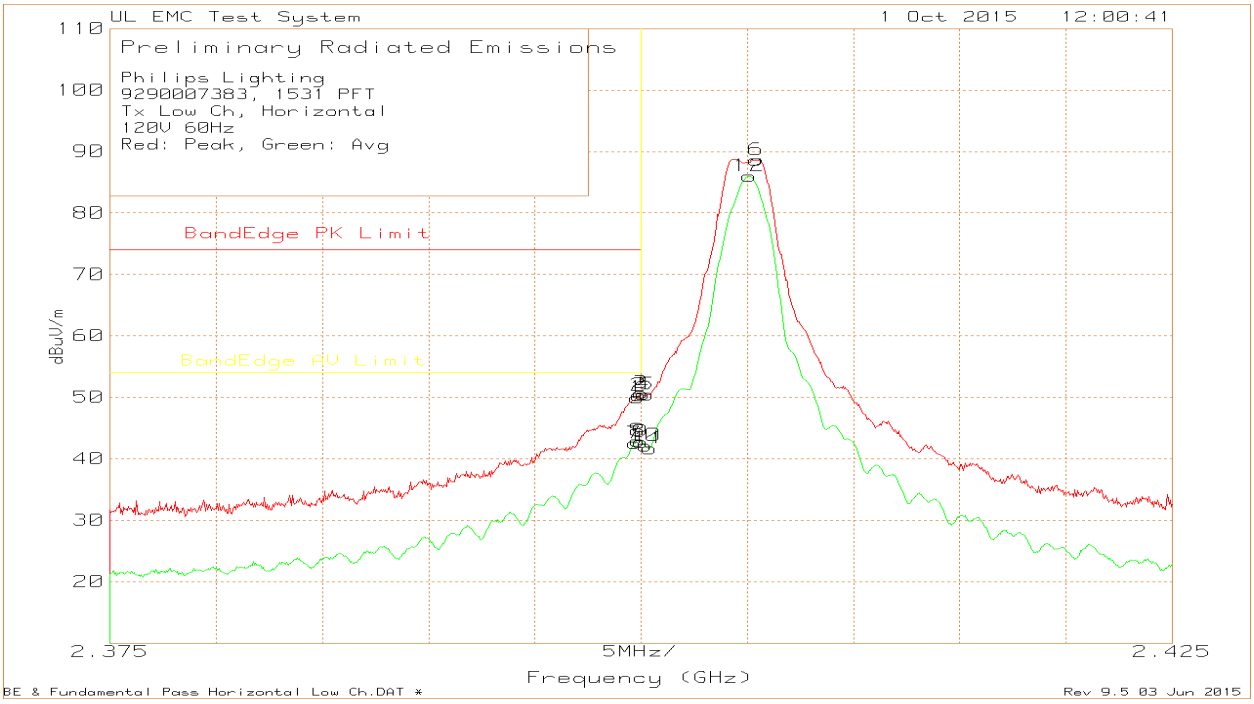
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

RESULTS

AV FS @ 2405MHz dBuV/m	AV FS @ 2440MHz dBuV/m	AV FS @ 2480MHz dBuV/m
86.01 H	86.06 H	69.57 H
91.41 V	93.63 V	74.18 V

7.2.1. FUNDAMENTAL FREQUENCY RADIATED EMISSION and BANDEDGES

Low Channel, Horizontal Plot



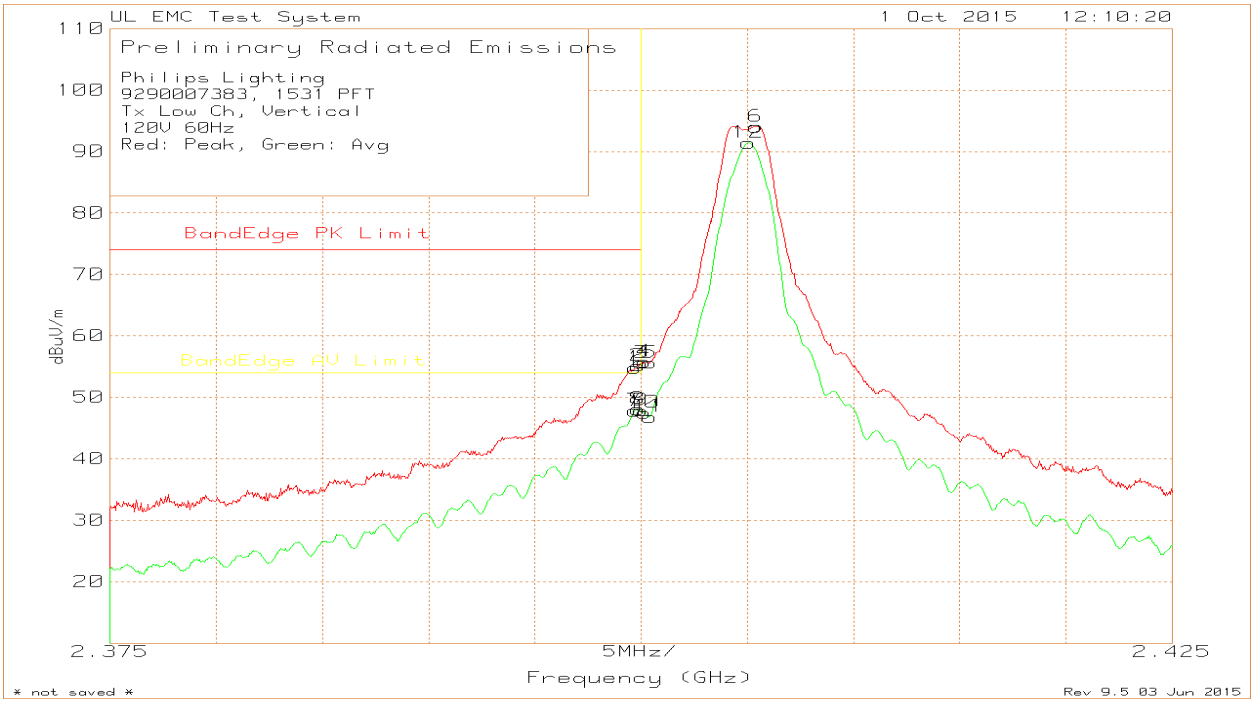
Low Channel, Horizontal Data

Philips Lighting
9290007383, 1531 PFT
Tx Low Ch, Horizontal
120V 60Hz
Red: Peak, Green: Avg
Trace Markers

Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	FCC 15.249 Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.3998	80.07	Pk	21.8	-51.93	49.94	74	-24.06	19	174	H
2	2.3999	80.44	Pk	21.8	-51.93	50.31	74	-23.69	19	174	H
3	2.4	80.84	Pk	21.8	-51.93	50.71	74	-23.29	19	174	H
4	2.4001	80.64	Pk	21.8	-51.93	50.51	114	-63.49	19	174	H
5	2.4003	80.6	Pk	21.8	-51.93	50.47	114	-63.53	19	174	H
6	2.4054	118.62	Pk	21.8	-51.8	88.62	114	-25.38	19	174	H
7	2.3997	72.67	Av	21.8	-51.93	42.54	54	-11.46	19	174	H
8	2.3999	73.03	Av	21.8	-51.93	42.9	54	-11.1	19	174	H
9	2.4	72.85	Av	21.8	-51.93	42.72	54	-11.28	19	174	H
10	2.4002	72.24	Av	21.8	-51.93	42.11	94	-51.89	19	174	H
11	2.4004	71.84	Av	21.8	-51.93	41.71	94	-52.29	19	174	H
12	2.4051	116.02	Av	21.8	-51.81	86.01	94	-7.99	19	174	H

Pk - Peak detector

Low Channel, Vertical Plot



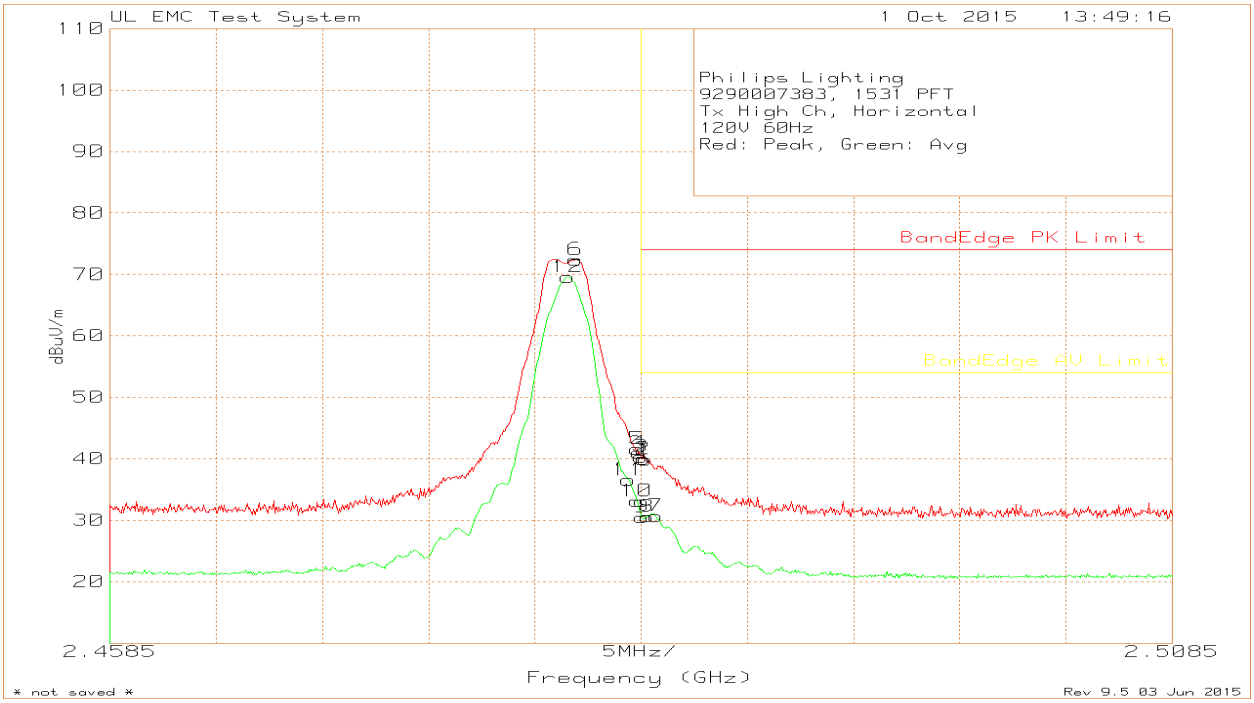
Low Channel, Vertical Data

Philips Lighting											
9290007383, 1531 PFT											
Tx Low Ch, Vertical											
120V 60Hz											
Red: Peak, Green: Avg											
Trace Markers											
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	FCC 15.249 Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.3997	84.89	Pk	21.8	-51.93	54.76	74	-19.24	76	99	V
2	2.3999	85.28	Pk	21.8	-51.93	55.15	74	-18.85	76	99	V
3	2.4	85.74	Pk	21.8	-51.93	55.61	74	-18.39	76	99	V
4	2.4002	85.93	Pk	21.8	-51.93	55.8	114	-58.2	76	99	V
5	2.4004	85.74	Pk	21.8	-51.93	55.61	114	-58.39	76	99	V
6	2.4054	124.05	Pk	21.8	-51.8	94.05	114	-19.95	76	99	V
7	2.3997	77.94	Av	21.8	-51.93	47.81	54	-6.19	76	99	V
8	2.3999	78.21	Av	21.8	-51.93	48.08	54	-5.92	76	99	V
9	2.4	78.02	Av	21.8	-51.93	47.89	54	-6.11	76	99	V
10	2.4002	77.62	Av	21.8	-51.93	47.49	94	-46.51	76	99	V
11	2.4004	76.93	Av	21.8	-51.93	46.8	94	-47.2	76	99	V
12	2.4051	121.42	Av	21.8	-51.81	91.41	94	-2.59	76	99	V
Pk - Peak detector											

Middle Channel, Horizontal & Vertical Data

Philips Lighting										
9290007383, 1531 PFT										
Tx Mid Ch										
120V 60Hz										
Red: Horizontal, Green: Vertical										
Radiated Emission Data										
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	FCC 15.249 Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.4393	117.96	Pk	21.9	-51.29	88.57	114	-25.43	360	174	H
2.44	117.45	Av	21.9	-51.29	88.06	94	-5.94	360	174	H
2.4393	123.52	Pk	21.9	-51.29	94.13	114	-19.87	50	119	V
2.44	123.02	Av	21.9	-51.29	93.63	94	-0.37	50	119	V
Pk - Peak detector										
Av - Average detection										

High Channel, Horizontal Plot



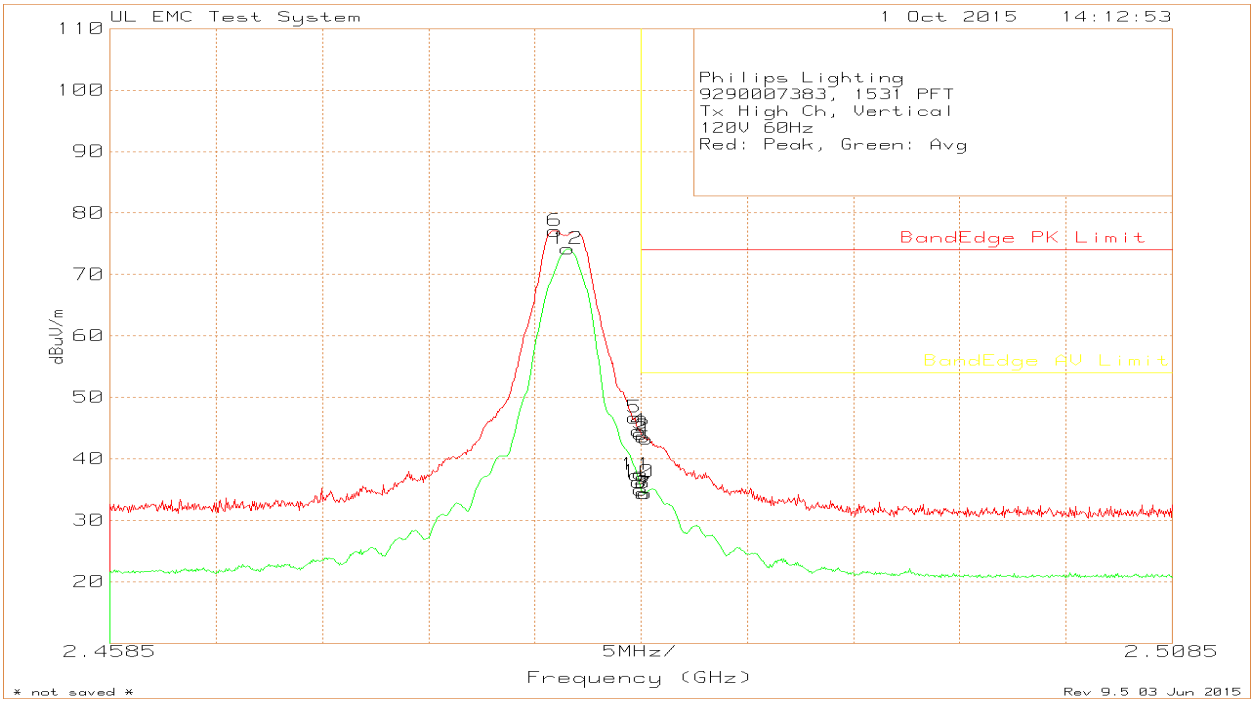
High Channel, Horizontal Data

Philips Lighting
9290007383, 1531 PFT
Tx High Ch, Horizontal
120V 60Hz
Red: Peak, Green: Avg
Trace Markers

Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	FCC 15.249 Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.4837	69.49	Pk	22.1	-51.74	39.85	74	-34.15	159	132	H
2	2.4836	69.6	Pk	22.1	-51.74	39.96	74	-34.04	159	132	H
3	2.4835	69.99	Pk	22.1	-51.74	40.35	74	-33.65	159	132	H
4	2.4834	70.61	Pk	22.1	-51.73	40.98	114	-73.02	159	132	H
5	2.4833	71.33	Pk	22	-51.73	41.6	114	-72.4	159	132	H
6	2.4804	102.05	Pk	22	-51.68	72.37	114	-41.63	159	132	H
7	2.4842	60.31	Av	22.1	-51.75	30.66	54	-23.34	159	132	H
8	2.4838	60.21	Av	22.1	-51.74	30.57	54	-23.43	159	132	H
9	2.4836	60.12	Av	22.1	-51.74	30.48	54	-23.52	159	132	H
10	2.4833	62.84	Av	22	-51.73	33.11	94	-60.89	159	132	H
11	2.4829	66.26	Av	22	-51.73	36.53	94	-57.47	159	132	H
12	2.4801	99.25	Av	22	-51.68	69.57	94	-24.43	159	132	H

Pk - Peak detector

High Channel, Vertical Plot



High Channel, Vertical Data

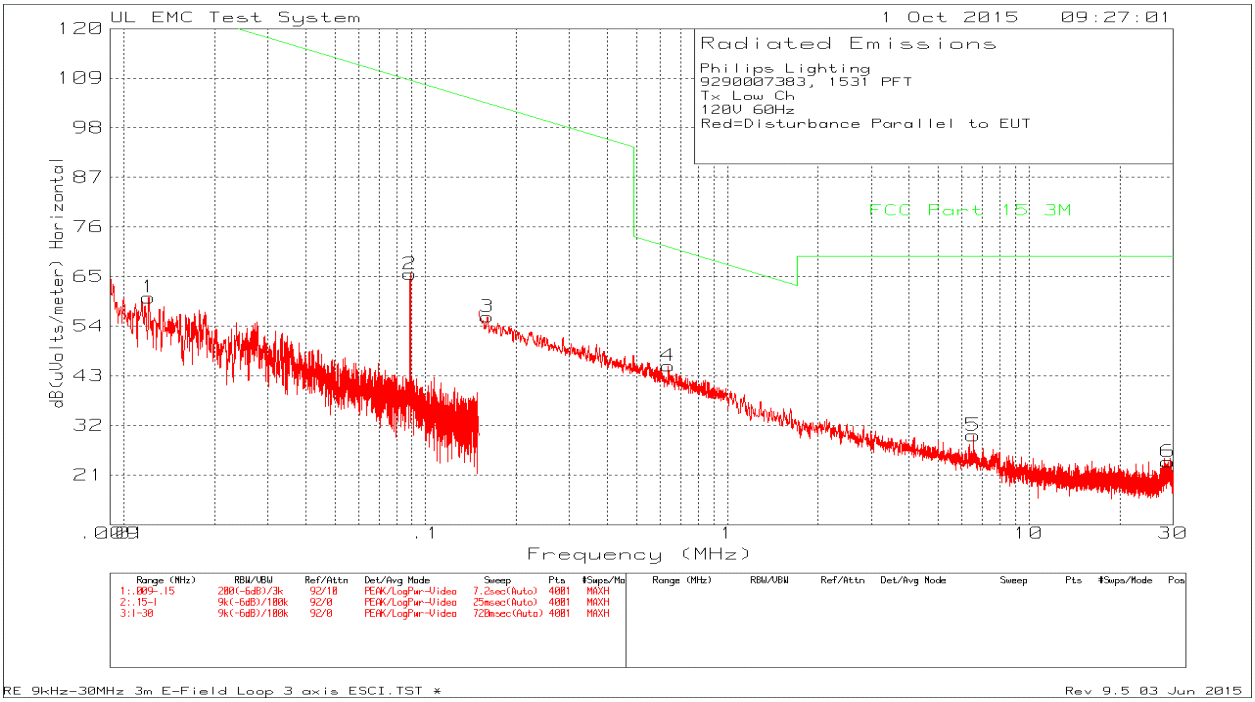
Philips Lighting
9290007383, 1531 PFT
Tx High Ch, Vertical
120V 60Hz
Red: Peak, Green: Avg
Trace Markers

Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	FCC 15.249 Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.4838	72.86	Pk	22.1	-51.74	43.22	74	-30.78	143	101	V
2	2.4836	73.26	Pk	22.1	-51.74	43.62	74	-30.38	143	101	V
3	2.4835	73.72	Pk	22.1	-51.74	44.08	74	-29.92	143	101	V
4	2.4834	74.16	Pk	22.1	-51.73	44.53	114	-69.47	143	101	V
5	2.4832	76.43	Pk	22	-51.73	46.7	114	-67.3	143	101	V
6	2.4795	106.74	Pk	22	-51.66	77.08	114	-36.92	143	101	V
7	2.4837	64	Av	22.1	-51.74	34.36	54	-19.64	143	101	V
8	2.4836	64.01	Av	22.1	-51.74	34.37	54	-19.63	143	101	V
9	2.4835	64.62	Av	22.1	-51.74	34.98	54	-19.02	143	101	V
10	2.4834	65.84	Av	22.1	-51.73	36.21	94	-57.79	143	101	V
11	2.4833	67.11	Av	22	-51.73	37.38	94	-56.62	143	101	V
12	2.4801	103.86	Av	22	-51.68	74.18	94	-19.82	143	101	V

Pk - Peak Detector
Av - Average Detector

7.2.2. HARMONICS AND SPURIOUS EMISSIONS 9kHz – 30MHz

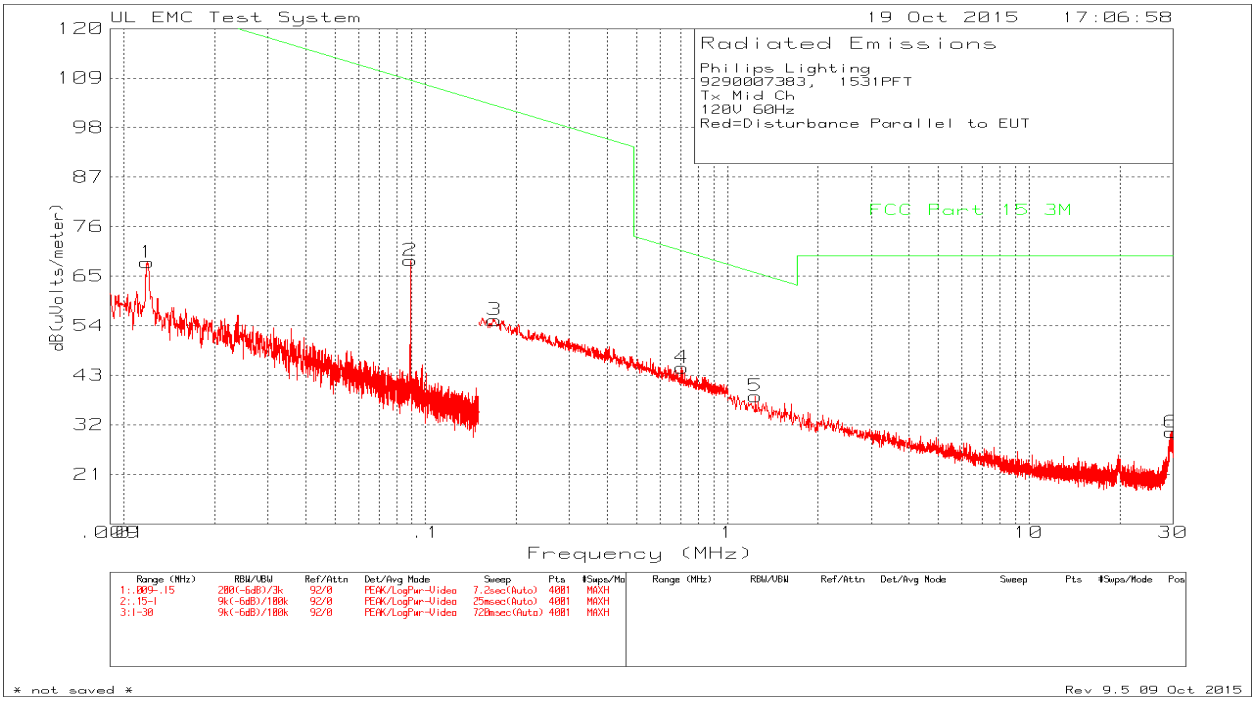
Low Channel Plot



Low Channel Data

Philips Lighting									
9290007383, 1531 PFT									
Tx Low Ch									
120V 60Hz									
Red: Horizontal, Green: Vetical									
Trace Markers									
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit dBuV/m @ 3m	Margin (dB)	Azimuth [Degs]
1	0.01208	40.16	Pk	20.2	0	60.36	125.94	-65.58	0-360
2	0.08887	52.56	Pk	13	0	65.56	108.62	-43.06	0-360
3	0.16001	43.86	Pk	12.2	0	56.06	103.52	-47.46	0-360
4	0.63713	33.18	Pk	12	0	45.18	71.52	-26.34	0-360
5	6.5245	17.95	Pk	11.7	0.1	29.75	69.54	-39.79	0-360
6	28.93425	14.43	Pk	9.2	0.3	23.93	69.54	-45.61	0-360
Pk - Peak detector									

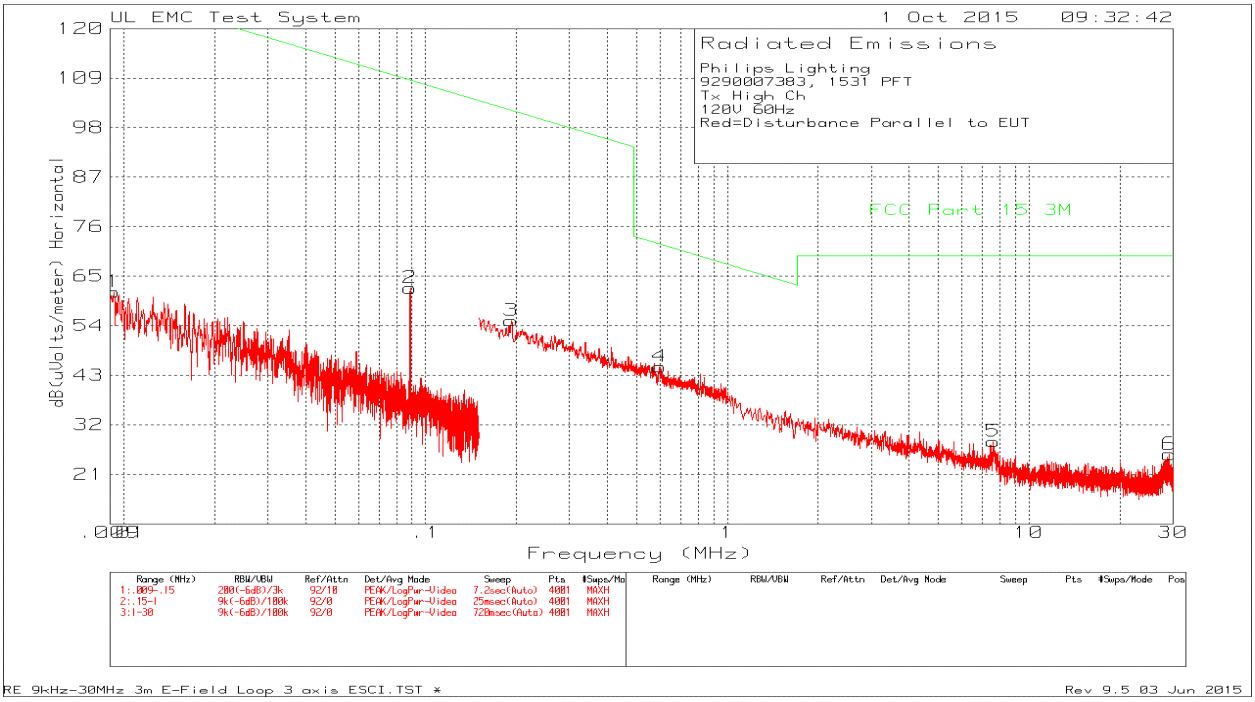
Middle Channel Plot



Middle Channel Data

Philips Lighting									
9290007383, 1531PFT									
Tx Mid Ch									
120V 60Hz									
Red=Disturbance Parallel to EUT									
Trace Markers									
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit dBuV/m @ 3m	Margin (dB)	Azimuth [Degs]
1	0.01194	47.85	Pk	20.2	0	68.05	126.05	-58	0-360
2	0.08901	55.49	Pk	13	0	68.49	108.61	-40.12	0-360
3	0.1696	43.03	Pk	12.2	0	55.23	103.01	-47.78	0-360
4	0.70763	32.66	Pk	12	0	44.66	70.61	-25.95	0-360
5	1.23925	25.73	Pk	12.5	0.1	38.33	65.74	-27.41	0-360
6	29.81875	20.94	Pk	9.1	0.3	30.34	69.54	-39.2	0-360
Pk - Peak detector									

High Channel Plot

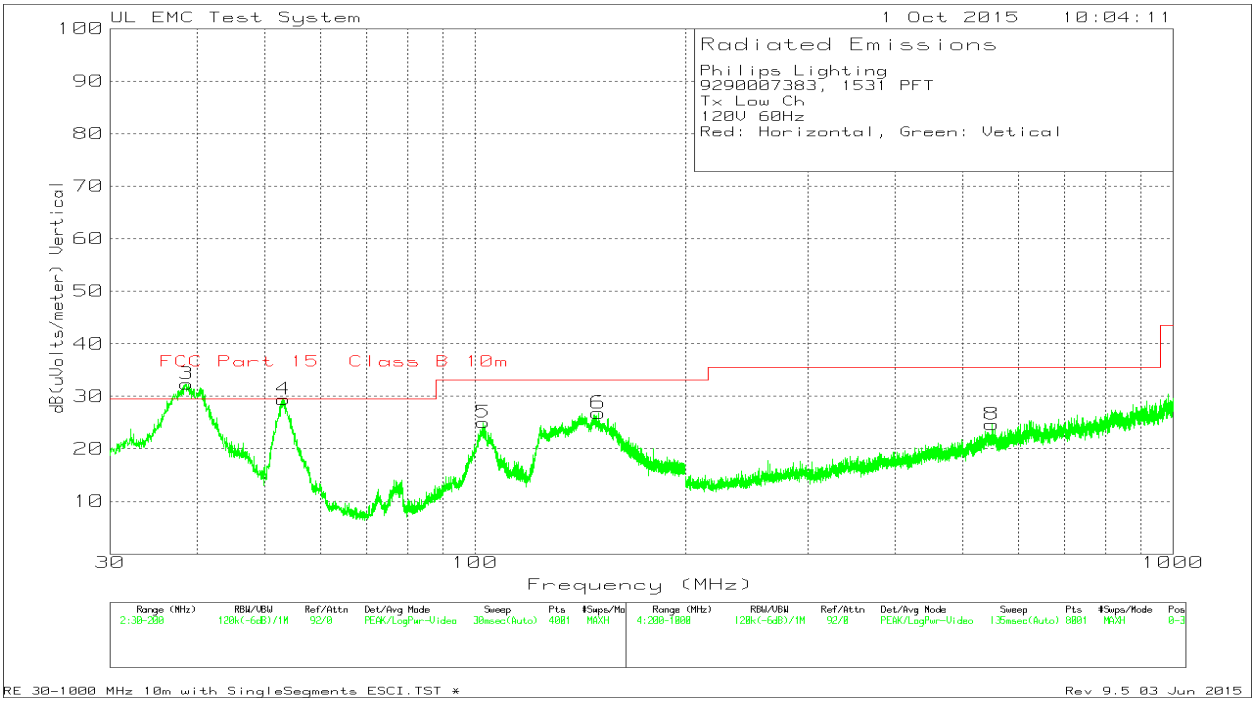


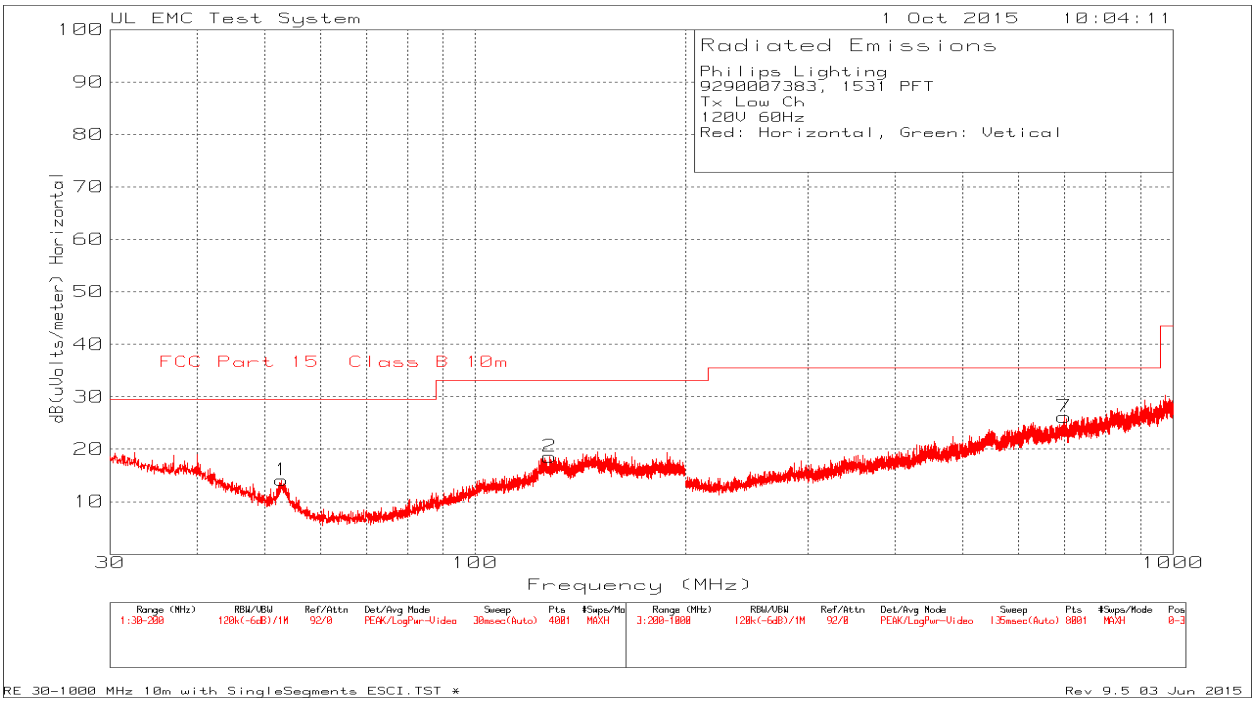
High Channel Data

Philips Lighting									
9290007383, 1531 PFT									
Tx High Ch									
120V 60Hz									
Red: Horizontal, Green: Vetical									
Trace Markers									
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit dBuV/m @ 3m	Margin (dB)	Azimuth [Degs]
1	0.009245	39.41	Pk	22.1	0	61.51	128.27	-66.76	0-360
2	0.08887	49.39	Pk	13	0	62.39	108.62	-46.23	0-360
3	0.1926	43.14	Pk	12	0	55.14	101.91	-46.77	0-360
4	0.59709	32.87	Pk	12	0	44.87	72.08	-27.21	0-360
5	7.612	16.57	Pk	11.5	0.2	28.27	69.54	-41.27	0-360
6	29.16625	15.89	Pk	9.2	0.3	25.39	69.54	-44.15	0-360
Pk - Peak detector									

7.2.1. HARMONICS AND SPURIOUS EMISSIONS 30MHz – 1GHz

Low Channel Plots

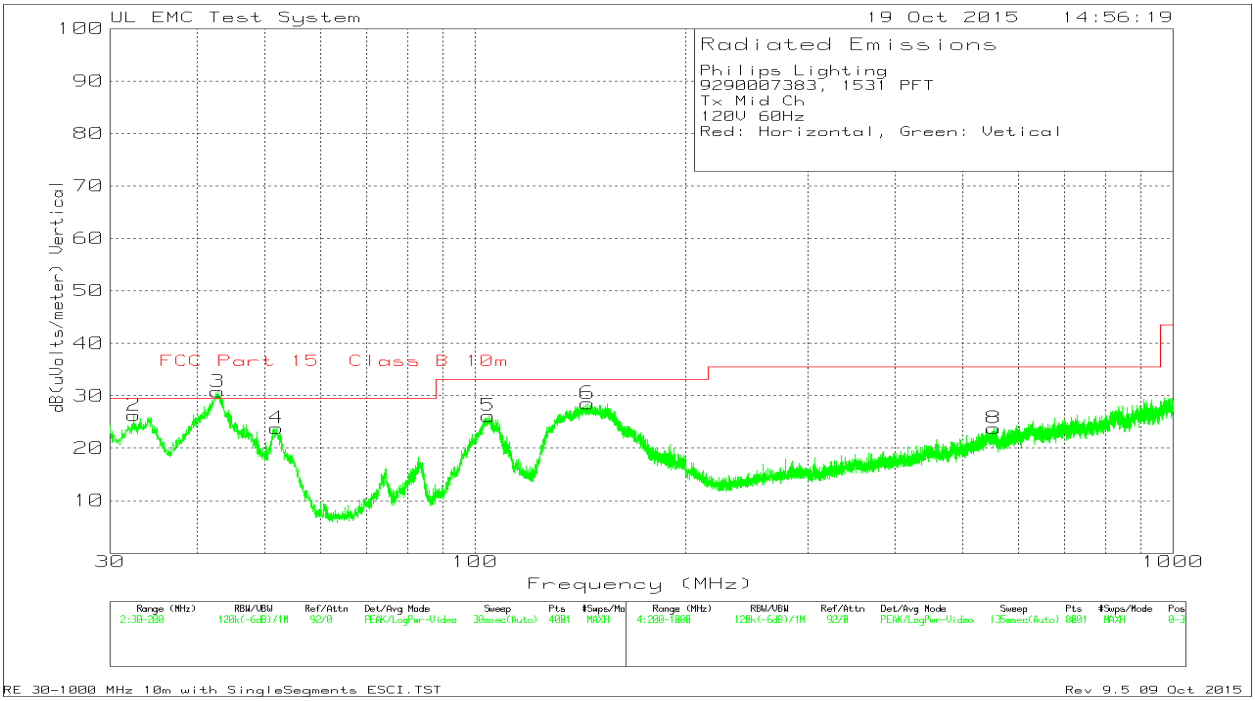


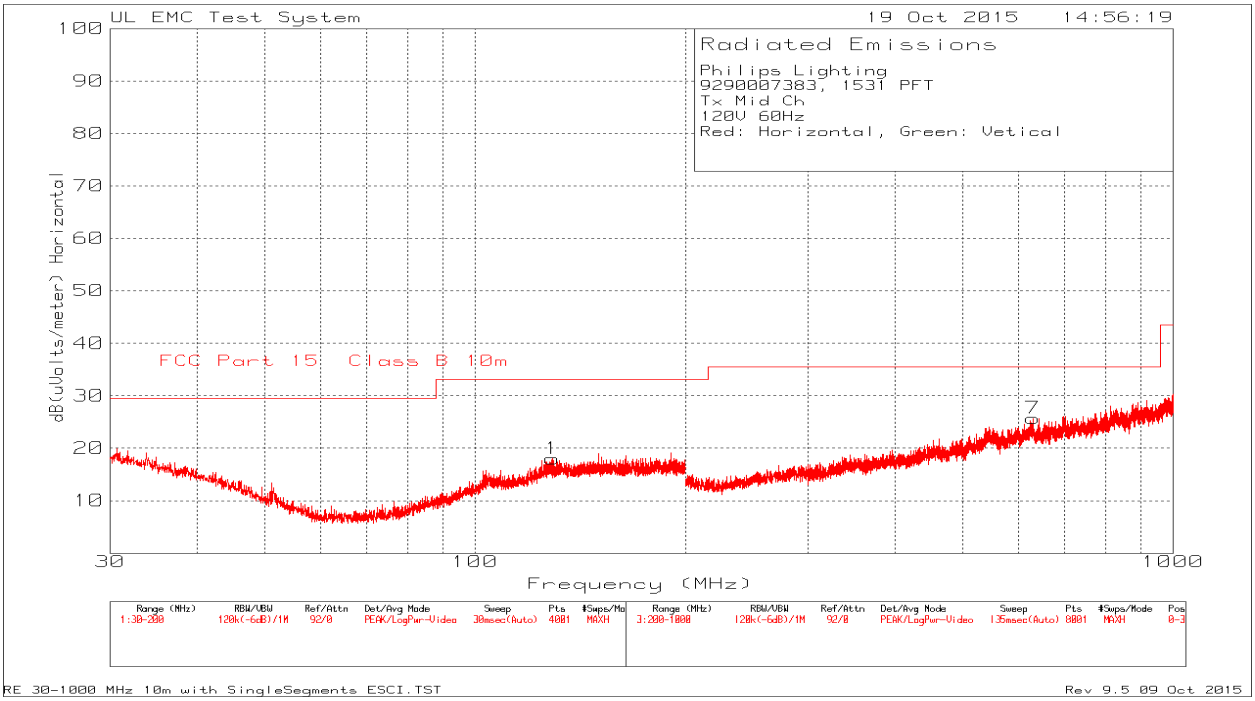


Low Channel Data

Philips Lighting											
9290007383, 1531 PFT											
Tx Low Ch											
120V 60Hz											
Red: Horizontal, Green: Vetical											
Trace Markers											
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit FCC Part 15.209 dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	52.865	36.12	Pk	8.1	-30.1	14.12	29.55	-15.43	0-360	398	H
2	127.9625	33.89	Pk	14.5	-29.8	18.59	33.07	-14.48	0-360	398	H
3	38.6275	47.95	Pk	14.5	-30.1	32.35	29.55	2.8	0-360	101	V
4	53.1625	51.55	Pk	8	-30.1	29.45	29.55	-0.1	0-360	252	V
5	102.8025	43.35	Pk	11.6	-29.9	25.05	33.07	-8.02	0-360	101	V
6	150.2325	41.32	Pk	15.1	-29.6	26.82	33.07	-6.25	0-360	101	V
7	698.7	31.48	Pk	20.6	-25.9	26.18	35.57	-9.39	0-360	103	H
8	550.5	31.96	Pk	19.7	-27	24.66	35.57	-10.91	0-360	399	V
Pk - Peak detector											
Radiated Emission Data											
	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit FCC Part 15.209 dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
	40.27575	44.01	Qp	13.8	-30.2	27.61	29.55	-1.94	293	102	V
	53.103125	47.31	Qp	8	-30.1	25.21	29.55	-4.34	242	242	V
Qp - Quasi-Peak detector											

Middle Channel Plots

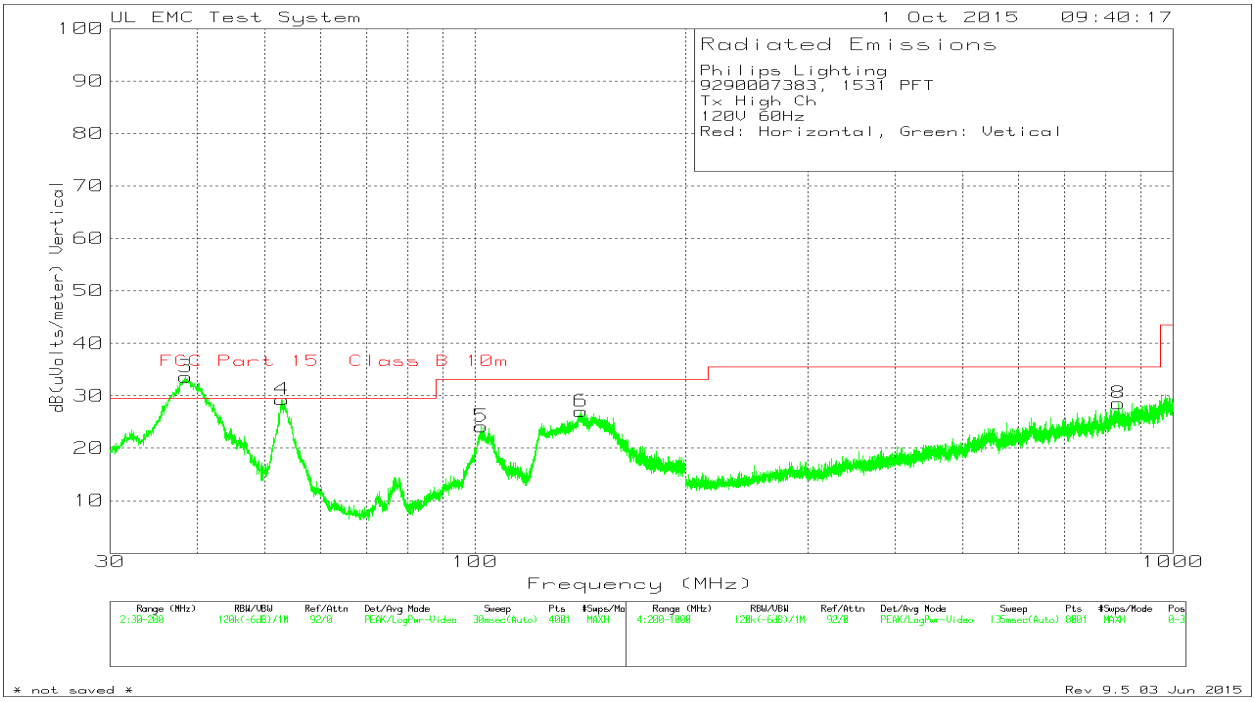


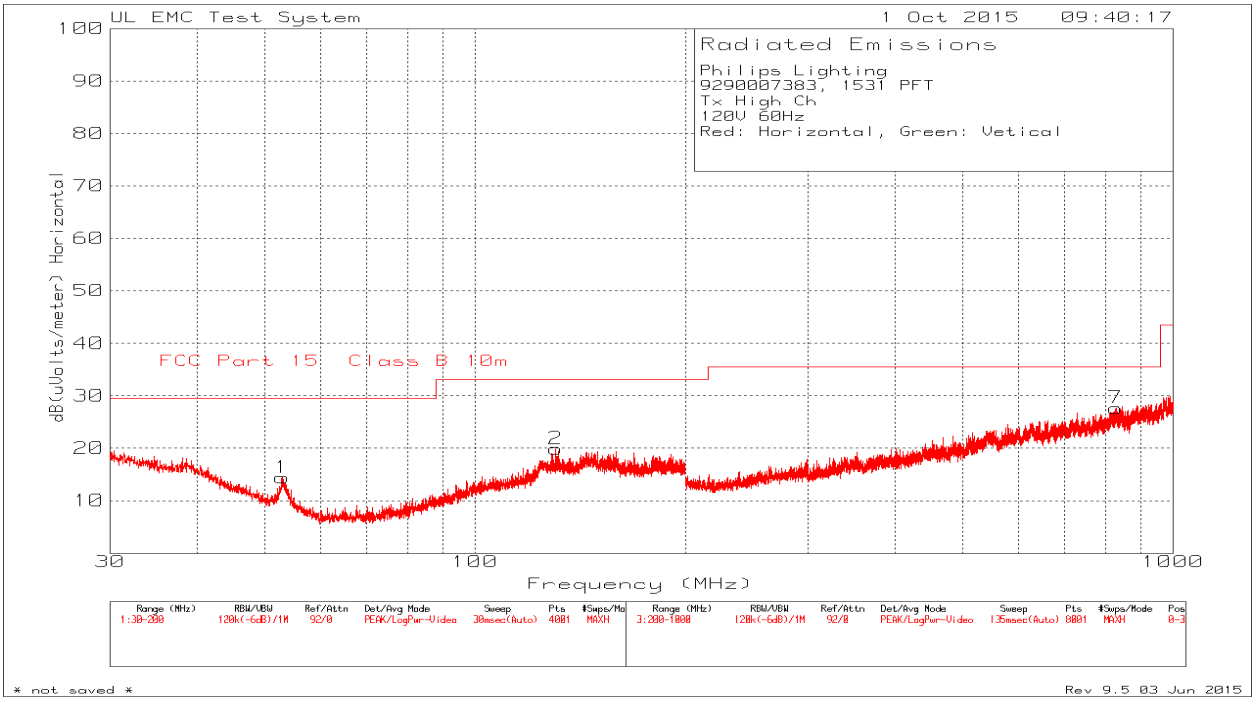


Middle Channel Data

Philips Lighting											
9290007383, 1531 PFT											
Tx Mid Ch											
120V 60Hz											
Red: Horizontal, Green: Vetical											
Trace Markers											
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit FCC Part 15.209 dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	128.9825	33.5	Pk	14.3	-29.8	18	33.07	-15.07	0-360	250	H
2	32.465	39.26	Pk	17.2	-30.2	26.26	29.55	-3.29	0-360	101	V
3	42.75	48.28	Pk	12.6	-30.1	30.78	29.55	1.23	0-360	101	V
4	51.9725	45.53	Pk	8.4	-30.1	23.83	29.55	-5.72	0-360	101	V
5	104.545	44.19	Pk	11.9	-29.9	26.19	33.07	-6.88	0-360	101	V
6	144.8775	43.23	Pk	15.1	-29.8	28.53	33.07	-4.54	0-360	101	V
7	630	31.29	Pk	20.6	-26.2	25.69	35.57	-9.88	0-360	199	H
8	553.8	31.22	Pk	19.3	-26.7	23.82	35.57	-11.75	0-360	299	V
Pk - Peak detector											
Radiated Emission Data											
	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit FCC Part 15.209 dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
	43.1645	43.26	Qp	12.4	-30.1	25.56	29.55	-3.99	151	103	V
	31.572	33	Qp	17.6	-30.2	20.4	29.55	-9.15	0	101	V
	53.61	41.3	Qp	7.8	-30.1	19	29.55	-10.55	74	104	V
	143.6	39.71	Qp	14.9	-29.8	24.81	33.07	-8.26	340	101	V
Qp - Quasi-Peak detector											

High Channel Plots





High Channel Data

Philips Lighting
9290007383, 1531 PFT
Tx High Ch
120V 60Hz
Red: Horizontal, Green: Vetical
Trace Markers

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit FCC Part 15.209 dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	52.9075	36.41	Pk	8.1	-30.1	14.41	29.55	-15.14	0-360	398	H
2	130.5125	35.19	Pk	14.5	-29.8	19.89	33.07	-13.18	0-360	398	H
3	38.5	49.09	Pk	14.6	-30.1	33.59	29.55	4.04	0-360	101	V
4	52.95	51.28	Pk	8.1	-30.1	29.28	29.55	-0.27	0-360	101	V
5	102.08	42.74	Pk	11.4	-30	24.14	33.07	-8.93	0-360	101	V
6	141.86	41.86	Pk	14.9	-29.7	27.06	33.07	-6.01	0-360	101	V
7	828.4	31.35	Pk	22.5	-26.2	27.65	35.57	-7.92	0-360	199	H
8	835.2	32.88	Pk	22.6	-26.9	28.58	35.57	-6.99	0-360	399	V

Pk - Peak detector

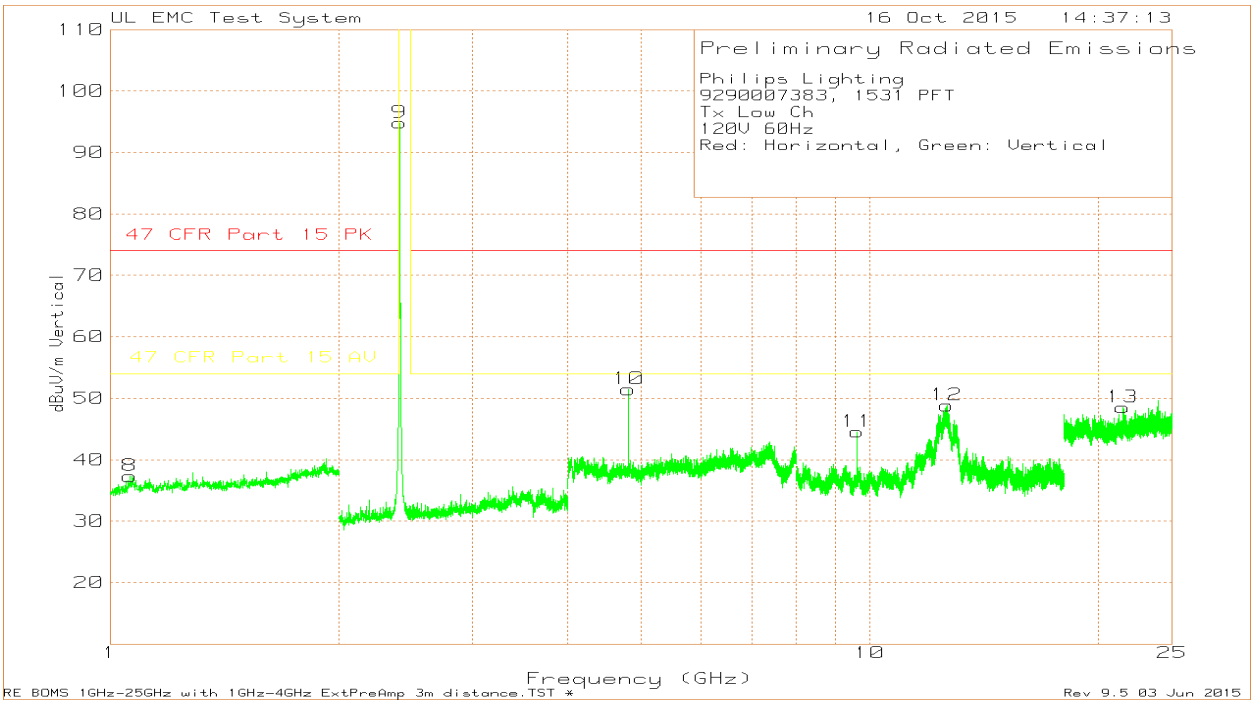
Radiated Emission Data

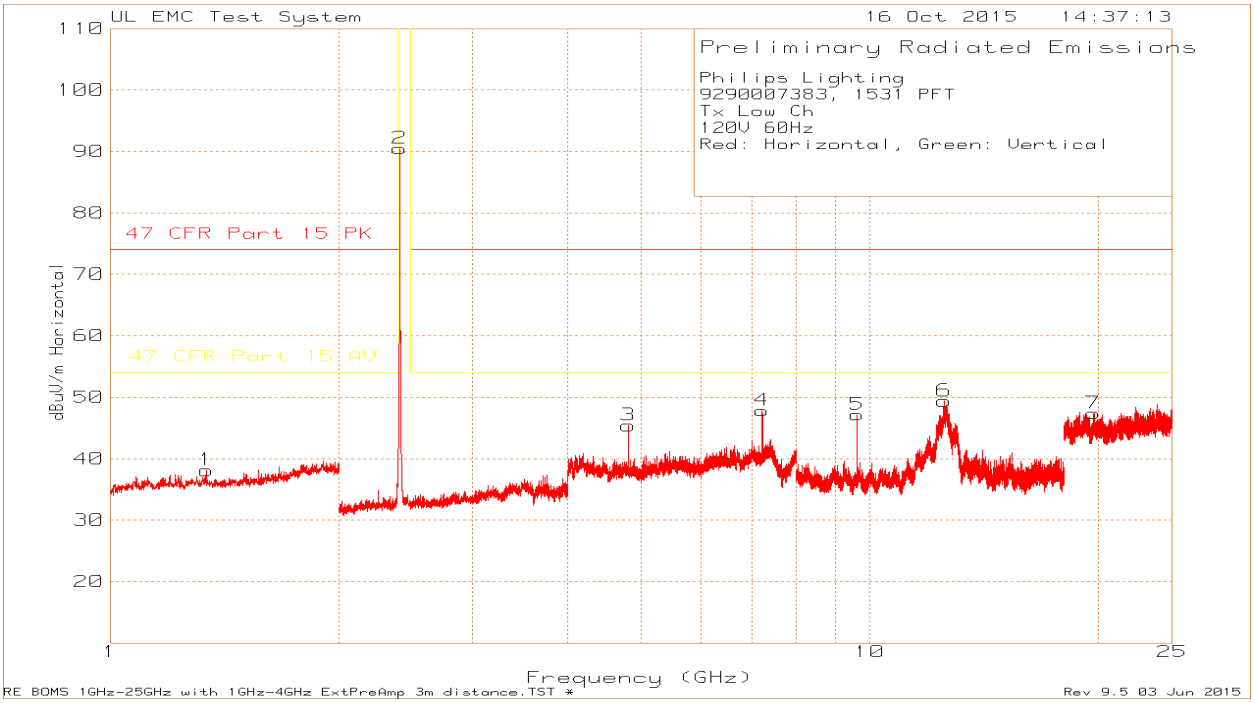
	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Limit FCC Part 15.209 dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
	40.24975	44.91	Qp	13.8	-30.2	28.51	29.55	-1.04	332	103	V
	53.284375	46.43	Qp	8	-30.1	24.33	29.55	-5.22	1	102	V

Qp - Quasi-Peak detector

7.2.2. HARMONICS AND SPURIOUS EMISSIONS 1GHz – 25GHz

Low Channel Plots

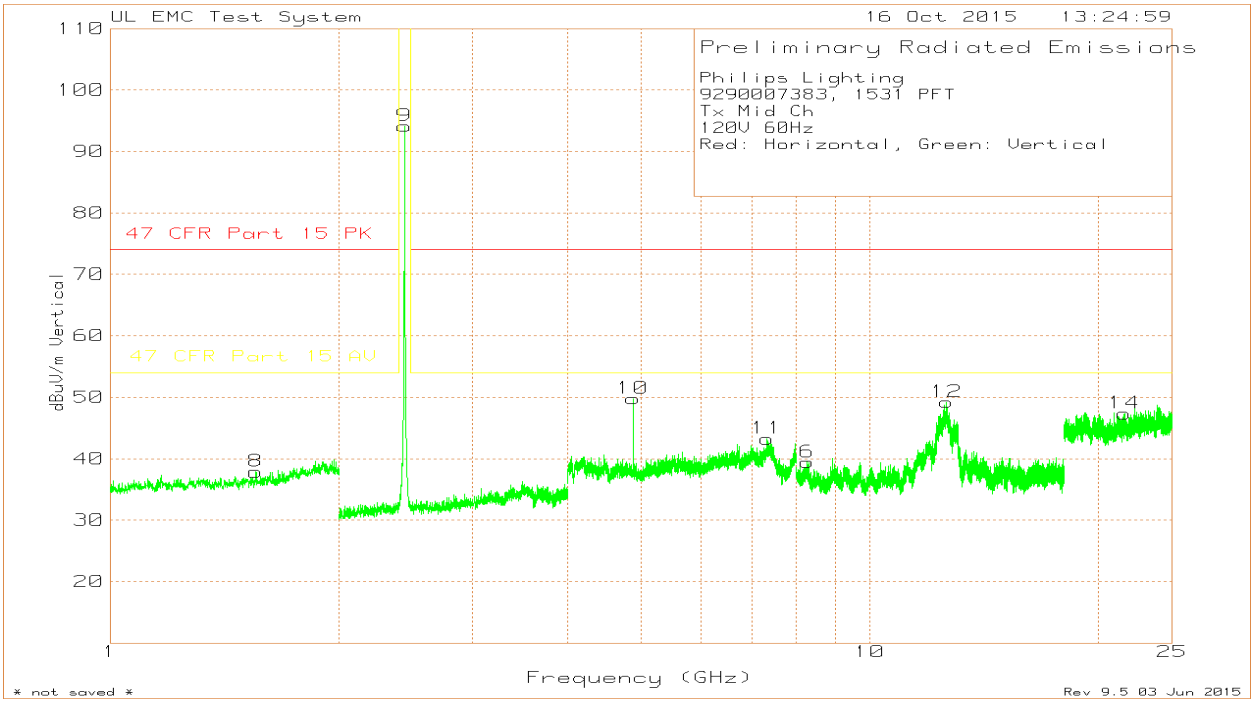


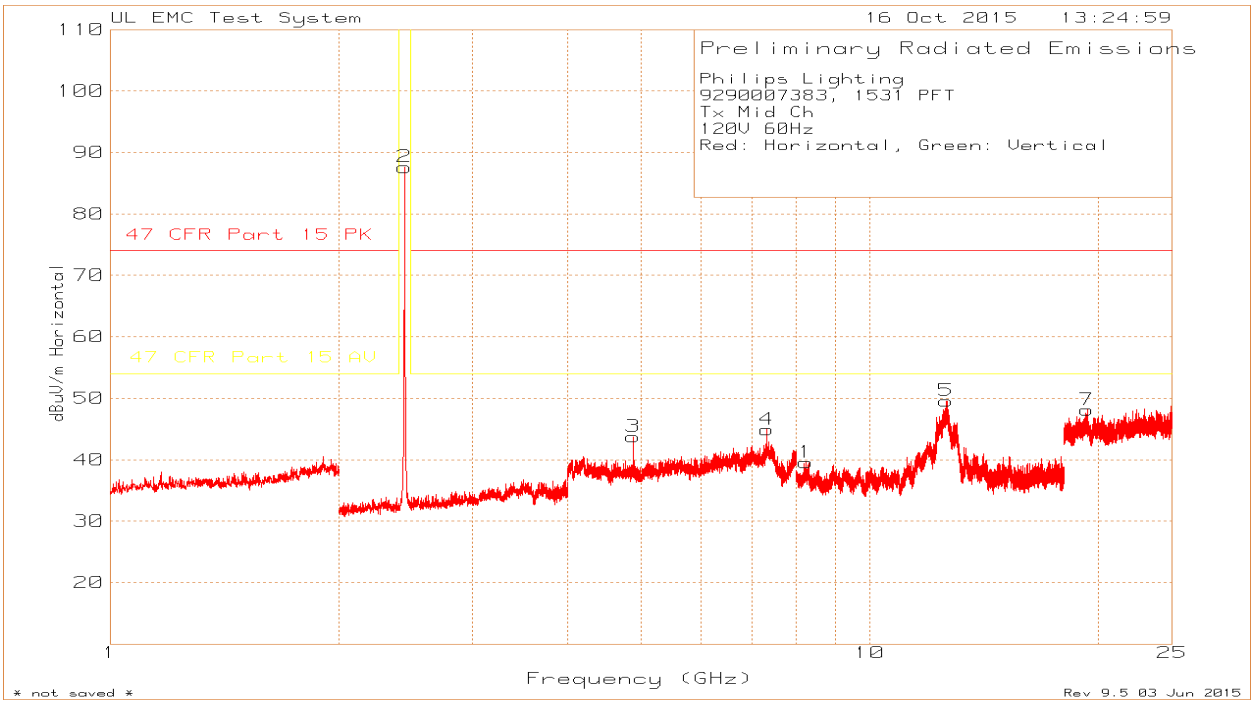


Low Channel Data

Philips Lighting													
9290007383, 1531 PFT													
Tx Low Ch													
120V 60Hz													
Red: Horizontal, Green: Vertical													
Trace Markers													
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	1.339	68.62	Pk	25.2	-55.69	38.13	74	-35.87	54	-15.87	0-360	151	H
2	2.404	120.53	Pk	21.8	-51.84	90.49	-	-	-	-	0-360	99	H
3	4.809	68.28	Pk	27.7	-50.57	45.41	74	-28.59	54	-8.59	0-360	100	H
4	7.214	64.78	Pk	29.8	-46.73	47.85	74	-26.15	54	-6.15	0-360	149	H
5	9.622	59.07	Pk	36.4	-48.3	47.17	74	-26.83	54	-6.83	0-360	99	H
6	12.522	45.75	Pk	39.4	-35.77	49.38	74	-24.62	54	-4.62	0-360	150	H
7	19.693	56.5	Pk	40.3	-49.39	47.41	74	-26.59	54	-6.59	0-360	100	H
8	1.061	69.41	Pk	24.5	-56.57	37.34	74	-36.66	54	-16.66	0-360	150	V
9	2.404	124.88	Pk	21.8	-51.84	94.84	-	-	-	-	0-360	99	V
10	4.811	74.31	Pk	27.7	-50.55	51.46	74	-22.54	54	-2.54	0-360	99	V
11	9.622	56.46	Pk	36.4	-48.3	44.56	74	-29.44	54	-9.44	0-360	99	V
12	12.628	43.55	Pk	39.5	-34.19	48.86	74	-25.14	54	-5.14	0-360	99	V
13	21.531	54.25	Pk	40.3	-46.02	48.53	74	-25.47	54	-5.47	0-360	100	V
Pk - Peak detector													
Radiated Emission Data													
	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
	4.809	70.83	Pk	27.7	-50.57	47.96	74	-26.04	-	-	335	100	H
	4.8107	62.89	Av	27.7	-50.55	40.04	-	-	54	-13.96	335	100	H
	7.2131	66.2	Pk	29.8	-46.72	49.28	74	-24.72	-	-	0	100	H
	7.2161	57.87	Av	29.8	-46.76	40.91	-	-	54	-13.09	0	100	H
	9.6213	67.52	Pk	36.4	-48.31	55.61	74	-18.39	-	-	41	100	H
	9.6217	57.71	Av	36.4	-48.3	45.81	-	-	54	-8.19	41	100	H
	4.8089	75.42	Pk	27.7	-50.57	52.55	74	-21.45	-	-	331	100	V
	4.8107	69.31	Av	27.7	-50.55	46.46	-	-	54	-7.54	331	100	V
	9.6217	66.91	Pk	36.4	-48.3	55.01	74	-18.99	-	-	3	100	V
	9.6217	57.25	Av	36.4	-48.3	45.35	-	-	54	-8.65	3	100	V
Pk - Peak detector													
Av - Average detection													

Middle Channel Plots

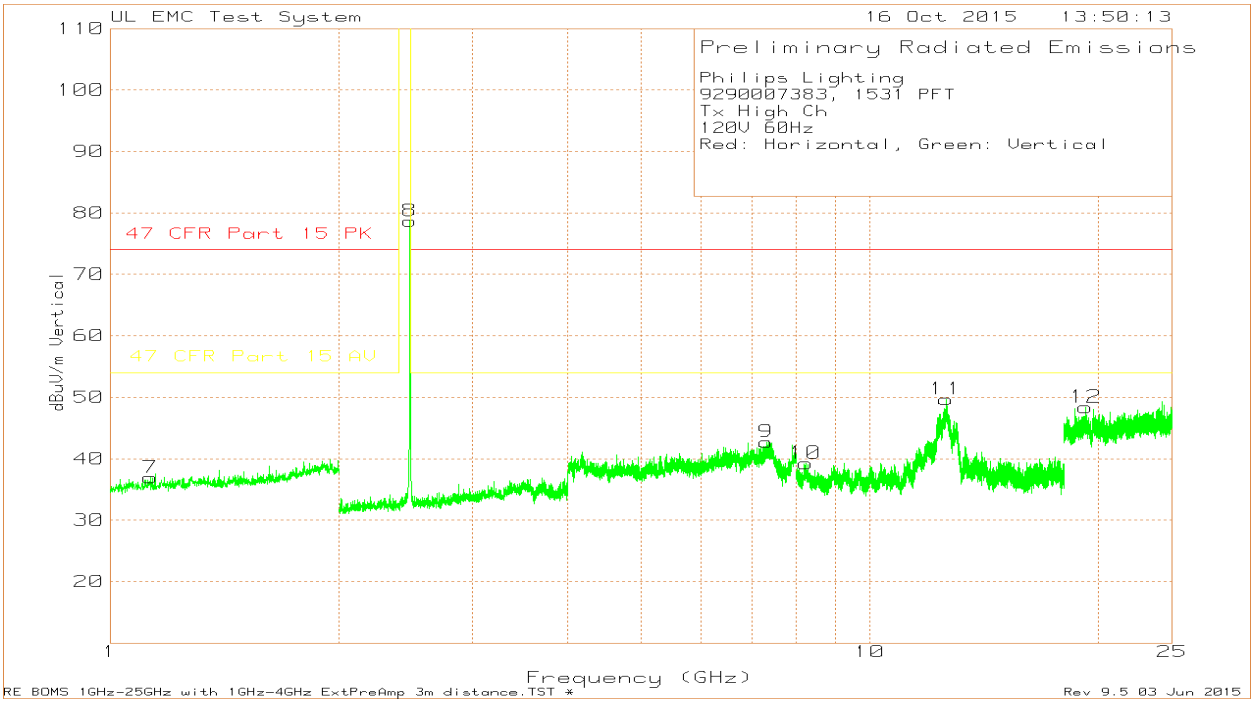


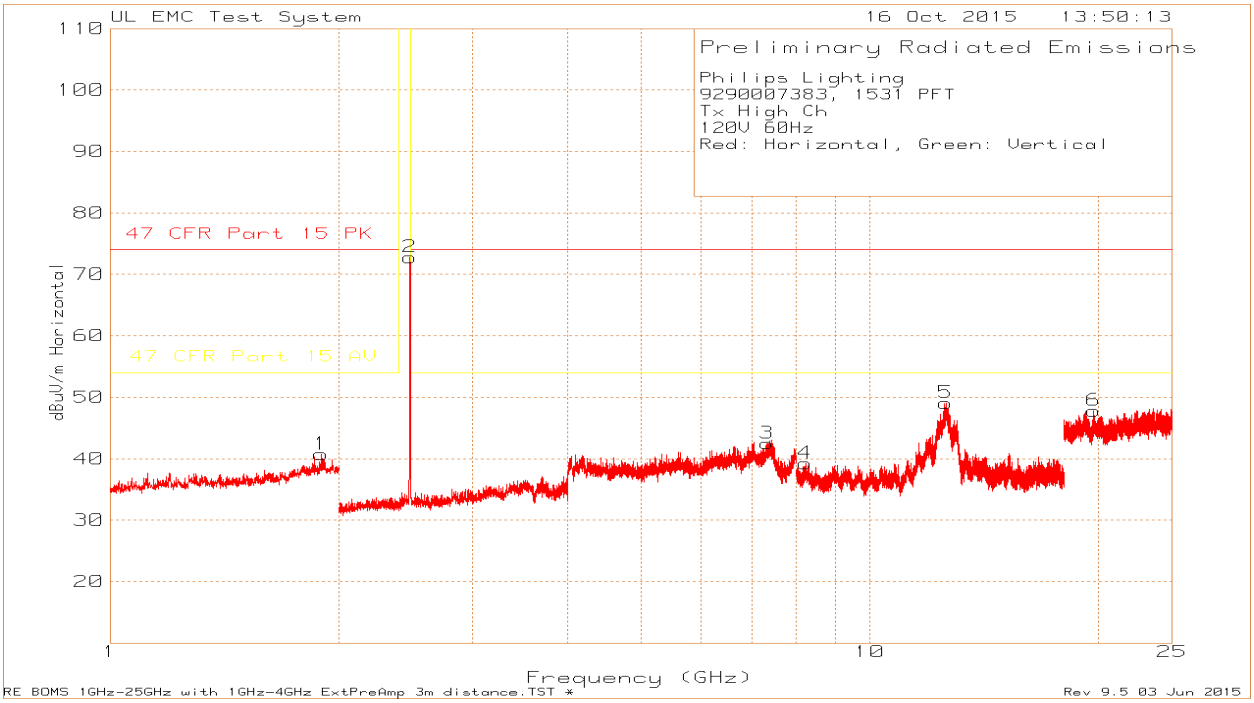


Middle Channel Data

Philips Lighting													
9290007383, 1531 PFT													
Tx Mid Ch													
120V 60Hz													
Red: Horizontal, Green: Vertical													
Trace Markers													
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2	2.439	116.99	Pk	21.9	-51.29	87.6	-	-	-	-	0-360	99	H
3	4.881	66.41	Pk	27.7	-50.36	43.75	74	-30.25	54	-10.25	0-360	100	H
4	7.319	60.19	Pk	30.6	-45.87	44.92	74	-29.08	54	-9.08	0-360	149	H
1	8.239	50.06	Pk	36.4	-46.9	39.56	74	-34.44	54	-14.44	0-360	99	H
5	12.606	44.59	Pk	39.5	-34.52	49.57	74	-24.43	54	-4.43	0-360	99	H
7	19.32	57.83	Pk	40.3	-50.02	48.11	74	-25.89	54	-5.89	0-360	100	H
8	1.554	67.36	Pk	25.4	-54.85	37.91	74	-36.09	54	-16.09	0-360	150	V
9	2.439	123.53	Pk	21.9	-51.29	94.14	-	-	-	-	0-360	99	V
10	4.879	72.43	Pk	27.7	-50.34	49.79	74	-24.21	54	-4.21	0-360	99	V
11	7.322	58.58	Pk	30.6	-45.93	43.25	74	-30.75	54	-10.75	0-360	150	V
6	8.272	50.62	Pk	36.4	-47.57	39.45	74	-34.55	54	-14.55	0-360	99	V
12	12.623	43.98	Pk	39.5	-34.26	49.22	74	-24.78	54	-4.78	0-360	150	V
14	21.632	52.9	Pk	40.4	-45.93	47.37	74	-26.63	54	-6.63	0-360	100	V
Pk - Peak detector													
Radiated Emission Data													
	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
	4.879	71.62	Pk	27.7	-50.34	48.98	74	-25.02	54	-	-	131	H
	4.88	62.72	Av	27.7	-50.35	40.07	-	-	54	-13.93	209	131	H
	7.3188	66.12	Pk	30.6	-45.87	50.85	74	-23.15	54	-	-	100	H
	7.3207	55.38	Av	30.6	-45.9	40.08	-	-	54	-13.92	4	100	H
	4.8808	73.8	Pk	27.7	-50.36	51.14	74	-22.86	54	-	-	100	V
	4.8808	67.17	Av	27.7	-50.36	44.51	-	-	54	-9.49	321	100	V
	7.321	60.77	Pk	30.6	-45.91	45.46	74	-28.54	54	-	-	100	V
	7.3212	49.93	Av	30.6	-45.91	34.62	-	-	54	-19.38	9	100	V
Pk - Peak detector													
Av - Average detection													

High Channel Plots





High Channel Data

Philips Lighting
9290007383, 1531 PFT
Tx High Ch
120V 60Hz
Red: Horizontal, Green: Vertical
Trace Markers

Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	1.896	66.94	Pk	27.4	-53.63	40.71	74	-33.29	54	-13.29	0-360	150	H
2	2.479	102.45	Pk	22	-51.66	72.79	-	-	-	-	0-360	99	H
3	7.323	57.87	Pk	30.6	-45.95	42.52	74	-31.48	54	-11.48	0-360	149	H
4	8.227	49.88	Pk	36.4	-47.04	39.24	74	-34.76	54	-14.76	0-360	99	H
5	12.587	44.29	Pk	39.5	-34.72	49.07	74	-24.93	54	-4.93	0-360	150	H
6	19.723	56.93	Pk	40.3	-49.41	47.82	74	-26.18	54	-6.18	0-360	100	H
7	1.129	68.32	Pk	25	-56.38	36.94	74	-37.06	54	-17.06	0-360	150	V
8	2.479	108.33	Pk	22	-51.66	78.67	-	-	-	-	0-360	150	V
9	7.306	58	Pk	30.5	-45.78	42.72	74	-31.28	54	-11.28	0-360	150	V
10	8.237	49.76	Pk	36.4	-46.92	39.24	74	-34.76	54	-14.76	0-360	99	V
11	12.601	44.75	Pk	39.5	-34.58	49.67	74	-24.33	54	-4.33	0-360	99	V
12	19.239	57.98	Pk	40.3	-49.91	48.37	74	-25.63	54	-5.63	0-360	100	V

Pk - Peak detector

8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

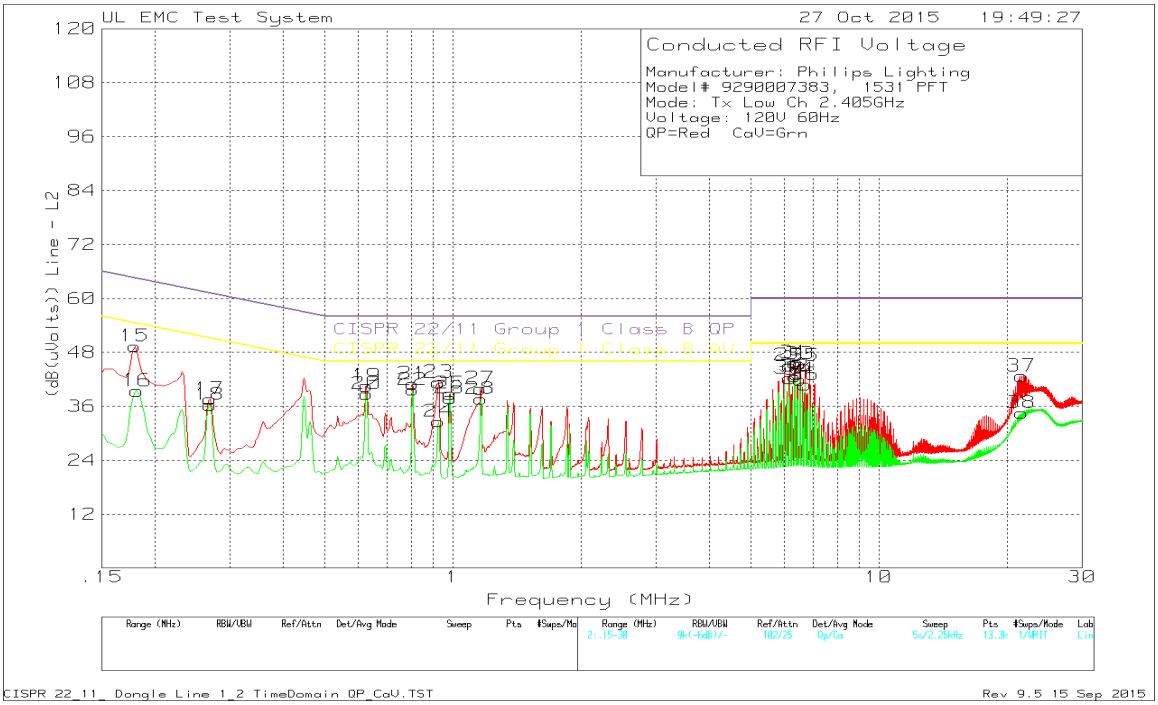
* Decreases with the logarithm of the frequency.

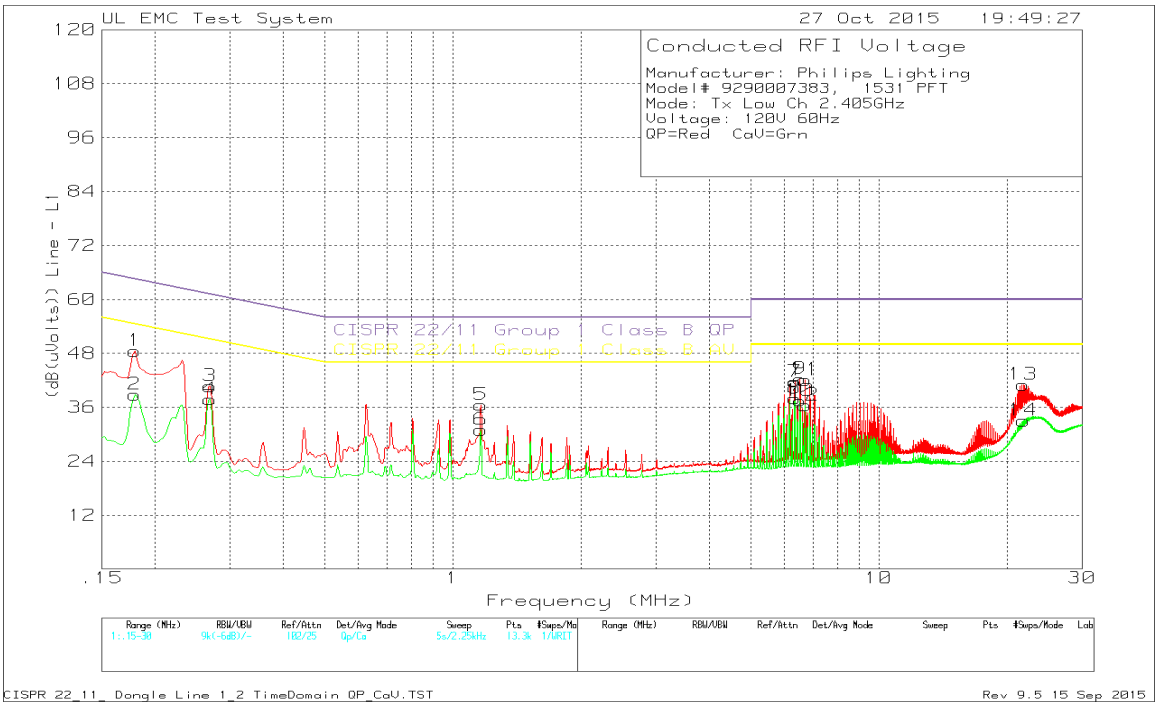
TEST PROCEDURE

ANSI C63.4

RESULTS

Low Channel Plots





Low Channel Data

Manufacturer: Philips Lighting
Model# 9290007383, 1531 PFT
Mode: Tx Low Ch 2.405GHz
Voltage: 120V 60Hz
QP=Red CaV=Grn

Trace Markers

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
Line											
1	.17925	36.55dBuV Qp	.1	11.9	48.55	-	-	64.52	-	-	-
					Margin (dB)	-	-	-15.97	-	-	-
2	.17925	26.82dBuV Ca	.1	11.9	38.82	-	-	-	54.52	-	-
					Margin (dB)	-	-	-	-15.7	-	-
3	.26925	29.63dBuV Qp	.1	11	40.73	-	-	61.14	-	-	-
					Margin (dB)	-	-	-20.41	-	-	-
4	.26925	26.68dBuV Ca	.1	11	37.78	-	-	-	51.14	-	-
					Margin (dB)	-	-	-	-13.36	-	-
5	1.1625	25.83dBuV Qp	.1	10.6	36.53	-	-	56	-	-	-
					Margin (dB)	-	-	-19.47	-	-	-
6	1.1625	20.3dBuV Ca	.1	10.6	31	-	-	-	46	-	-
					Margin (dB)	-	-	-	-15	-	-
7	6.34875	30.7dBuV Qp	.2	10.8	41.7	-	-	60	-	-	-
					Margin (dB)	-	-	-18.3	-	-	-
8	6.3465	26.99dBuV Ca	.2	10.8	37.99	-	-	-	50	-	-
					Margin (dB)	-	-	-	-12.01	-	-
9	6.5265	31.33dBuV Qp	.2	10.8	42.33	-	-	60	-	-	-
					Margin (dB)	-	-	-17.67	-	-	-
10	6.52425	26.49dBuV Ca	.2	10.8	37.49	-	-	-	50	-	-
					Margin (dB)	-	-	-	-12.51	-	-
11	6.7065	31.08dBuV Qp	.2	10.8	42.08	-	-	60	-	-	-
					Margin (dB)	-	-	-17.92	-	-	-
12	6.70425	25.43dBuV Ca	.2	10.8	36.43	-	-	-	50	-	-
					Margin (dB)	-	-	-	-13.57	-	-
13	21.80625	28.54dBuV Qp	1	11.5	41.04	-	-	60	-	-	-
					Margin (dB)	-	-	-18.96	-	-	-
14	21.822	20.55dBuV Ca	1	11.5	33.05	-	-	-	50	-	-
					Margin (dB)	-	-	-	-16.95	-	-

LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

Qp - Quasi-Peak detector
Ca – CISPR Average

Manufacturer: Philips Lighting
Model# 9290007383, 1531 PFT
Mode: Tx Low Ch 2.405GHz
Voltage: 120V 60Hz
QP=Red CaV=Grn

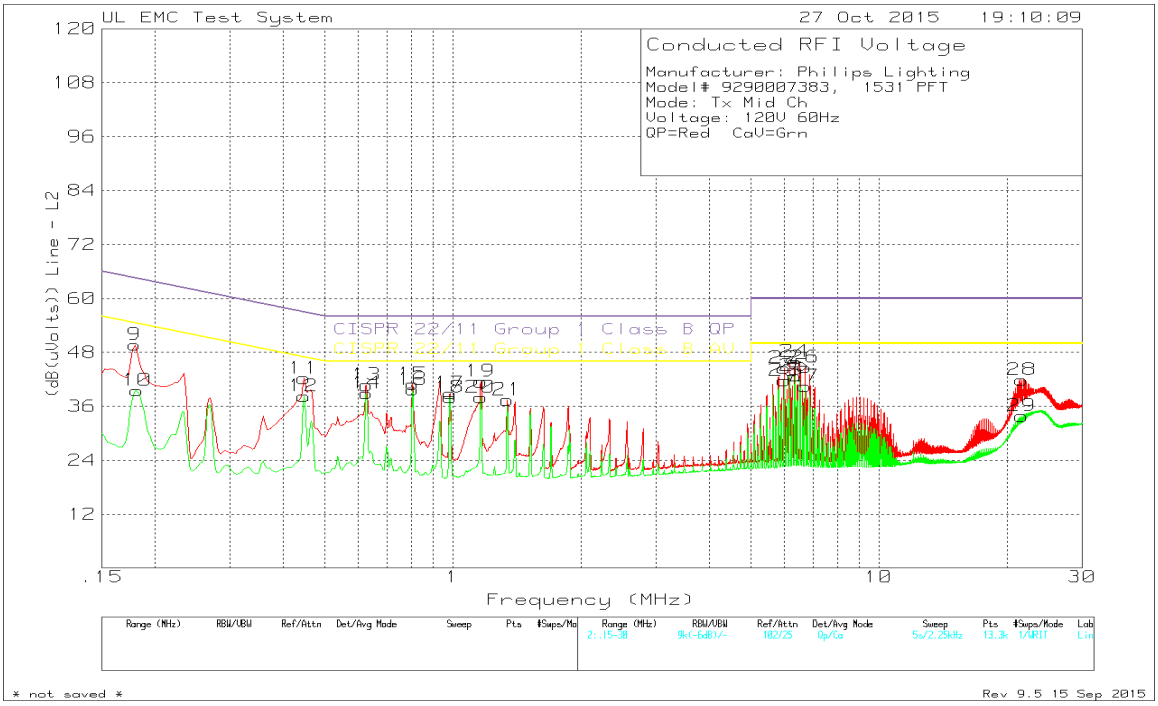
Trace Markers

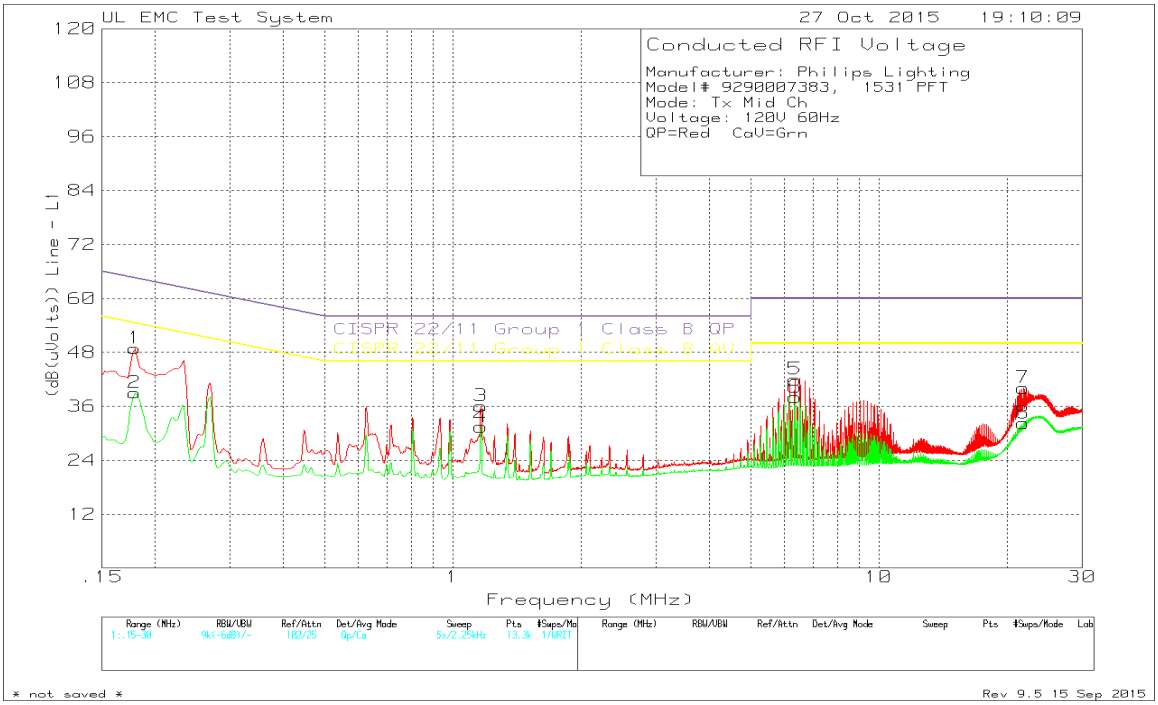
No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts)) / Limit:1	2	3	4	5	6
Neutral										
15	.17925	37.27dBuV Qp	.1	12	49.37	-	-	64.52	-	-	-
					Margin (dB)	-	-	-15.15	-	-	-
16	.1815	27.3dBuV Ca	.1	12	39.4	-	-	-	54.42	-	-
					Margin (dB)	-	-	-	-15.02	-	-
17	.26925	26.42dBuV Qp	.1	11.1	37.62	-	-	61.14	-	-	-
					Margin (dB)	-	-	-23.52	-	-	-
18	.26925	25.16dBuV Ca	.1	11.1	36.36	-	-	-	51.14	-	-
					Margin (dB)	-	-	-	-14.78	-	-
19	.627	29.78dBuV Qp	.1	10.7	40.58	-	-	56	-	-	-
					Margin (dB)	-	-	-15.42	-	-	-
20	.627	27.97dBuV Ca	.1	10.7	38.77	-	-	-	46	-	-
					Margin (dB)	-	-	-	-7.23	-	-
21	.80475	30.18dBuV Qp	.1	10.7	40.98	-	-	56	-	-	-
					Margin (dB)	-	-	-15.02	-	-	-
22	.80475	28.86dBuV Ca	.1	10.7	39.66	-	-	-	46	-	-
					Margin (dB)	-	-	-	-6.34	-	-
23	.92625	30.49dBuV Qp	.1	10.7	41.29	-	-	56	-	-	-
					Margin (dB)	-	-	-14.71	-	-	-
24	.92625	21.85dBuV Ca	.1	10.7	32.65	-	-	-	46	-	-
					Margin (dB)	-	-	-	-13.35	-	-
25	.98475	28.05dBuV Qp	.1	10.7	38.85	-	-	56	-	-	-
					Margin (dB)	-	-	-17.15	-	-	-
26	.98475	27.06dBuV Ca	.1	10.7	37.86	-	-	-	46	-	-
					Margin (dB)	-	-	-	-8.14	-	-
27	1.16025	29.07dBuV Qp	.1	10.7	39.87	-	-	56	-	-	-
					Margin (dB)	-	-	-16.13	-	-	-
28	1.1625	26.84dBuV Ca	.1	10.7	37.64	-	-	-	46	-	-
					Margin (dB)	-	-	-	-8.36	-	-
29	6.16875	34dBuV Qp	.2	10.9	45.1	-	-	60	-	-	-
					Margin (dB)	-	-	-14.9	-	-	-
30	6.16875	31.13dBuV Ca	.2	10.9	42.23	-	-	-	50	-	-
					Margin (dB)	-	-	-	-7.77	-	-
31	6.34875	34.55dBuV Qp	.2	10.9	45.65	-	-	60	-	-	-
					Margin (dB)	-	-	-14.35	-	-	-
32	6.3465	31.55dBuV Ca	.2	10.9	42.65	-	-	-	50	-	-
					Margin (dB)	-	-	-	-7.35	-	-
33	6.5265	34.33dBuV Qp	.2	10.9	45.43	-	-	60	-	-	-
					Margin (dB)	-	-	-14.57	-	-	-
34	6.52425	30.8dBuV Ca	.2	10.9	41.9	-	-	-	50	-	-
					Margin (dB)	-	-	-	-8.1	-	-
35	6.7065	33.9dBuV Qp	.2	10.9	45	-	-	60	-	-	-
					Margin (dB)	-	-	-15	-	-	-
36	6.70425	29.72dBuV Ca	.2	10.9	40.82	-	-	-	50	-	-
					Margin (dB)	-	-	-	-9.18	-	-
37	21.6285	29.99dBuV Qp	1.1	11.6	42.69	-	-	60	-	-	-
					Margin (dB)	-	-	-17.31	-	-	-
38	21.62738	21.83dBuV Ca	1.1	11.6	34.53	-	-	-	50	-	-
					Margin (dB)	-	-	-	-15.47	-	-

LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

Qp - Quasi-Peak detector
Ca – CISPR Average

Middle Channel Plots





Middle Channel Data

Manufacturer: Philips Lighting
Model# 9290007383, 1531 PFT
Mode: Tx Mid Ch
Voltage: 120V 60Hz
QP=Red CaV=Grn

Trace Markers

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
Line											
1	.17925	36.87dBuV Qp	.1	11.9	48.87	-	-	64.52	-	-	-
					Margin (dB)	-	-	-15.65	-	-	-
2	.17925	27.03dBuV Ca	.1	11.9	39.03	-	-	-	54.52	-	-
					Margin (dB)	-	-	-	-15.49	-	-
3	1.1625	25.36dBuV Qp	.1	10.6	36.06	-	-	56	-	-	-
					Margin (dB)	-	-	-19.94	-	-	-
4	1.1625	20.73dBuV Ca	.1	10.6	31.43	-	-	-	46	-	-
					Margin (dB)	-	-	-	-14.57	-	-
5	6.351	30.98dBuV Qp	.2	10.8	41.98	-	-	60	-	-	-
					Margin (dB)	-	-	-18.02	-	-	-
6	6.34875	27.01dBuV Ca	.2	10.8	38.01	-	-	-	50	-	-
					Margin (dB)	-	-	-	-11.99	-	-
7	21.813	27.6dBuV Qp	1	11.5	40.1	-	-	60	-	-	-
					Margin (dB)	-	-	-19.9	-	-	-
8	21.81075	19.74dBuV Ca	1	11.5	32.24	-	-	-	50	-	-
					Margin (dB)	-	-	-	-17.76	-	-

LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

Qp - Quasi-Peak detector
Ca – Cispr AV

Manufacturer: Philips Lighting
Model# 9290007383, 1531 PFT
Mode: Tx Mid Ch
Voltage: 120V 60Hz
QP=Red CaV=Grn

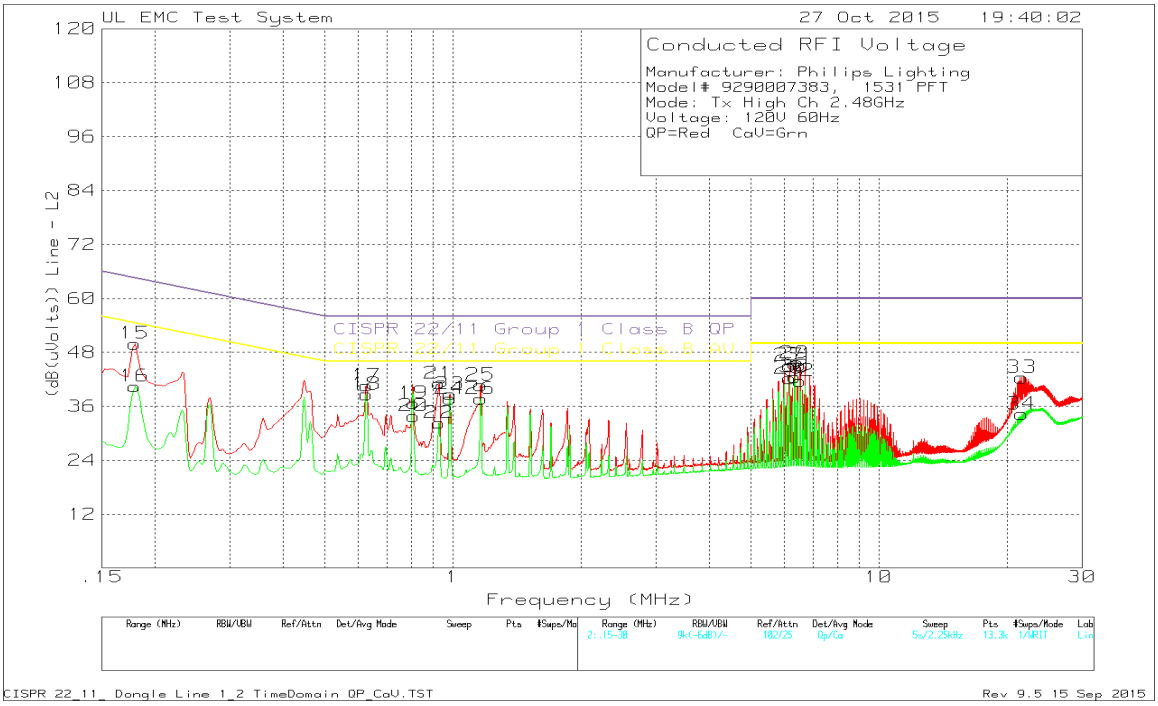
Trace Markers

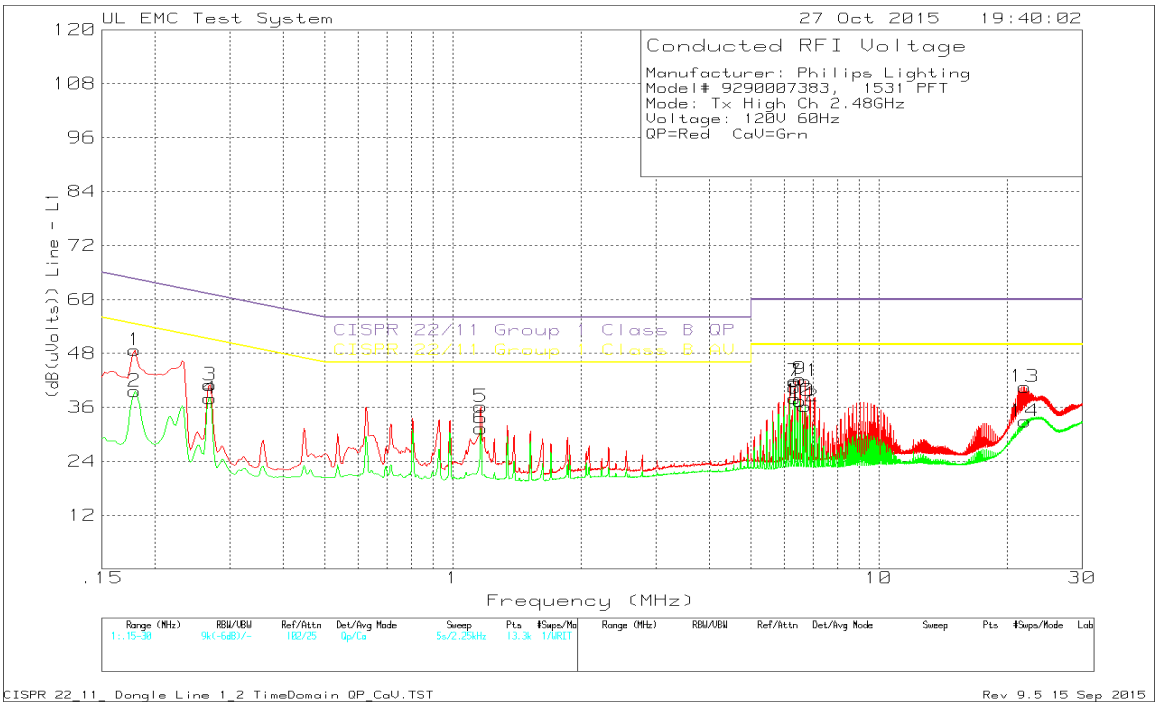
No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
Neutral											
9	.17925	37.58dBuV Qp	.1	12	49.68	-	-	64.52	-	-	-
					Margin (dB)	-	-	-14.84	-	-	-
10	.1815	27.41dBuV Ca	.1	12	39.51	-	-	-	54.42	-	-
					Margin (dB)	-	-	-	-14.91	-	-
11	.447	31.31dBuV Qp	.1	10.8	42.21	-	-	56.93	-	-	-
					Margin (dB)	-	-	-14.72	-	-	-
12	.447	27.34dBuV Ca	.1	10.8	38.24	-	-	-	46.93	-	-
					Margin (dB)	-	-	-	-8.69	-	-
13	.627	29.91dBuV Qp	.1	10.7	40.71	-	-	56	-	-	-
					Margin (dB)	-	-	-15.29	-	-	-
14	.627	28.09dBuV Ca	.1	10.7	38.89	-	-	-	46	-	-
					Margin (dB)	-	-	-	-7.11	-	-
15	.80475	30.15dBuV Qp	.1	10.7	40.95	-	-	56	-	-	-
					Margin (dB)	-	-	-15.05	-	-	-
16	.80475	28.93dBuV Ca	.1	10.7	39.73	-	-	-	46	-	-
					Margin (dB)	-	-	-	-6.27	-	-
17	.98475	28.09dBuV Qp	.1	10.7	38.89	-	-	56	-	-	-
					Margin (dB)	-	-	-17.11	-	-	-
18	.98475	27.18dBuV Ca	.1	10.7	37.98	-	-	-	46	-	-
					Margin (dB)	-	-	-	-8.02	-	-
19	1.1625	30.7dBuV Qp	.1	10.7	41.5	-	-	56	-	-	-
					Margin (dB)	-	-	-14.5	-	-	-
20	1.1625	27.18dBuV Ca	.1	10.7	37.98	-	-	-	46	-	-
					Margin (dB)	-	-	-	-8.02	-	-
21	1.3425	26.57dBuV Qp	.1	10.7	37.37	-	-	56	-	-	-
					Margin (dB)	-	-	-18.63	-	-	-
22	5.991	33.4dBuV Qp	.2	10.9	44.5	-	-	60	-	-	-
					Margin (dB)	-	-	-15.5	-	-	-
23	5.991	30.64dBuV Ca	.2	10.9	41.74	-	-	-	50	-	-
					Margin (dB)	-	-	-	-8.26	-	-
24	6.34875	34.86dBuV Qp	.2	10.9	45.96	-	-	60	-	-	-
					Margin (dB)	-	-	-14.04	-	-	-
25	6.34875	31.67dBuV Ca	.2	10.9	42.77	-	-	-	50	-	-
					Margin (dB)	-	-	-	-7.23	-	-
26	6.70875	33.58dBuV Qp	.2	10.9	44.68	-	-	60	-	-	-
					Margin (dB)	-	-	-15.32	-	-	-
27	6.70425	29.35dBuV Ca	.2	10.9	40.45	-	-	-	50	-	-
					Margin (dB)	-	-	-	-9.55	-	-
28	21.651	29.15dBuV Qp	1.1	11.6	41.85	-	-	60	-	-	-
					Margin (dB)	-	-	-18.15	-	-	-
29	21.6285	21.12dBuV Ca	1.1	11.6	33.82	-	-	-	50	-	-
					Margin (dB)	-	-	-	-16.18	-	-

LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

Qp - Quasi-Peak detector
Ca – Cispr AV

High Channel Plots





High Channel Data

Manufacturer: Philips Lighting
Model# 9290007383, 1531 PFT
Mode: Tx High Ch 2.48GHz
Voltage: 120V 60Hz
QP=Red CaV=Grn

Trace Markers

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading	Limit:1	2	3	4	5	6
Line											
1	.17925	36.72dBuV Qp	.1	11.9	48.72	-	-	64.52	-	-	-
					Margin (dB)	-	-	-15.8	-	-	-
2	.17925	27.58dBuV Ca	.1	11.9	39.58	-	-	-	54.52	-	-
					Margin (dB)	-	-	-	-14.94	-	-
3	.26925	29.87dBuV Qp	.1	11	40.97	-	-	61.14	-	-	-
					Margin (dB)	-	-	-20.17	-	-	-
4	.26925	26.89dBuV Ca	.1	11	37.99	-	-	-	51.14	-	-
					Margin (dB)	-	-	-	-13.15	-	-
5	1.1625	25.42dBuV Qp	.1	10.6	36.12	-	-	56	-	-	-
					Margin (dB)	-	-	-19.88	-	-	-
6	1.1625	20.62dBuV Ca	.1	10.6	31.32	-	-	-	46	-	-
					Margin (dB)	-	-	-	-14.68	-	-
7	6.34875	30.81dBuV Qp	.2	10.8	41.81	-	-	60	-	-	-
					Margin (dB)	-	-	-18.19	-	-	-
8	6.3465	26.99dBuV Ca	.2	10.8	37.99	-	-	-	50	-	-
					Margin (dB)	-	-	-	-12.01	-	-
9	6.5265	31.26dBuV Qp	.2	10.8	42.26	-	-	60	-	-	-
					Margin (dB)	-	-	-17.74	-	-	-
10	6.52425	26.41dBuV Ca	.2	10.8	37.41	-	-	-	50	-	-
					Margin (dB)	-	-	-	-12.59	-	-
11	6.7065	30.88dBuV Qp	.2	10.8	41.88	-	-	60	-	-	-
					Margin (dB)	-	-	-18.12	-	-	-
12	6.70425	25.25dBuV Ca	.2	10.8	36.25	-	-	-	50	-	-
					Margin (dB)	-	-	-	-13.75	-	-
13	21.98625	28.04dBuV Qp	1	11.5	40.54	-	-	60	-	-	-
					Margin (dB)	-	-	-19.46	-	-	-
14	21.99975	20.38dBuV Ca	1	11.5	32.88	-	-	-	50	-	-
					Margin (dB)	-	-	-	-17.12	-	-

LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

Qp - Quasi-Peak detector
Ca – Cispr Average

Manufacturer: Philips Lighting
Model# 9290007383, 1531 PFT
Mode: Tx High Ch 2.48GHz
Voltage: 120V 60Hz
QP=Red CaV=Grn

Trace Markers

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading	Limit:1 (dB(uVolts))	2	3	4	5	6
Neutral											
15	.17925	37.81dBuV Qp	.1	12	49.91	-	-	64.52	-	-	-
					Margin (dB)	-	-	-14.61	-	-	-
16	.17925	28.33dBuV Ca	.1	12	40.43	-	-	-	54.52	-	-
					Margin (dB)	-	-	-	-14.09	-	-
17	.627	29.79dBuV Qp	.1	10.7	40.59	-	-	56	-	-	-
					Margin (dB)	-	-	-15.41	-	-	-
18	.627	27.84dBuV Ca	.1	10.7	38.64	-	-	-	46	-	-
					Margin (dB)	-	-	-	-7.36	-	-
19	.80925	25.9dBuV Qp	.1	10.7	36.7	-	-	56	-	-	-
					Margin (dB)	-	-	-19.3	-	-	-
20	.80925	23.01dBuV Ca	.1	10.7	33.81	-	-	-	46	-	-
					Margin (dB)	-	-	-	-12.19	-	-
21	.9285	30.27dBuV Qp	.1	10.7	41.07	-	-	56	-	-	-
					Margin (dB)	-	-	-14.93	-	-	-
22	.9285	21.51dBuV Ca	.1	10.7	32.31	-	-	-	46	-	-
					Margin (dB)	-	-	-	-13.69	-	-
23	.98475	27.91dBuV Qp	.1	10.7	38.71	-	-	56	-	-	-
					Margin (dB)	-	-	-17.29	-	-	-
24	.98475	26.9dBuV Ca	.1	10.7	37.7	-	-	-	46	-	-
					Margin (dB)	-	-	-	-8.3	-	-
25	1.1625	29.88dBuV Qp	.1	10.7	40.68	-	-	56	-	-	-
					Margin (dB)	-	-	-15.32	-	-	-
26	1.1625	26.87dBuV Ca	.1	10.7	37.67	-	-	-	46	-	-
					Margin (dB)	-	-	-	-8.33	-	-
27	6.16875	33.96dBuV Qp	.2	10.9	45.06	-	-	60	-	-	-
					Margin (dB)	-	-	-14.94	-	-	-
28	6.16875	31.13dBuV Ca	.2	10.9	42.23	-	-	-	50	-	-
					Margin (dB)	-	-	-	-7.77	-	-
29	6.34875	34.44dBuV Qp	.2	10.9	45.54	-	-	60	-	-	-
					Margin (dB)	-	-	-14.46	-	-	-
30	6.3465	31.43dBuV Ca	.2	10.9	42.53	-	-	-	50	-	-
					Margin (dB)	-	-	-	-7.47	-	-
31	6.5265	34.1dBuV Qp	.2	10.9	45.2	-	-	60	-	-	-
					Margin (dB)	-	-	-14.8	-	-	-
32	6.52425	30.57dBuV Ca	.2	10.9	41.67	-	-	-	50	-	-
					Margin (dB)	-	-	-	-8.33	-	-
33	21.6465	29.7dBuV Qp	1.1	11.6	42.4	-	-	60	-	-	-
					Margin (dB)	-	-	-17.6	-	-	-
34	21.6285	21.56dBuV Ca	1.1	11.6	34.26	-	-	-	50	-	-
					Margin (dB)	-	-	-	-15.74	-	-

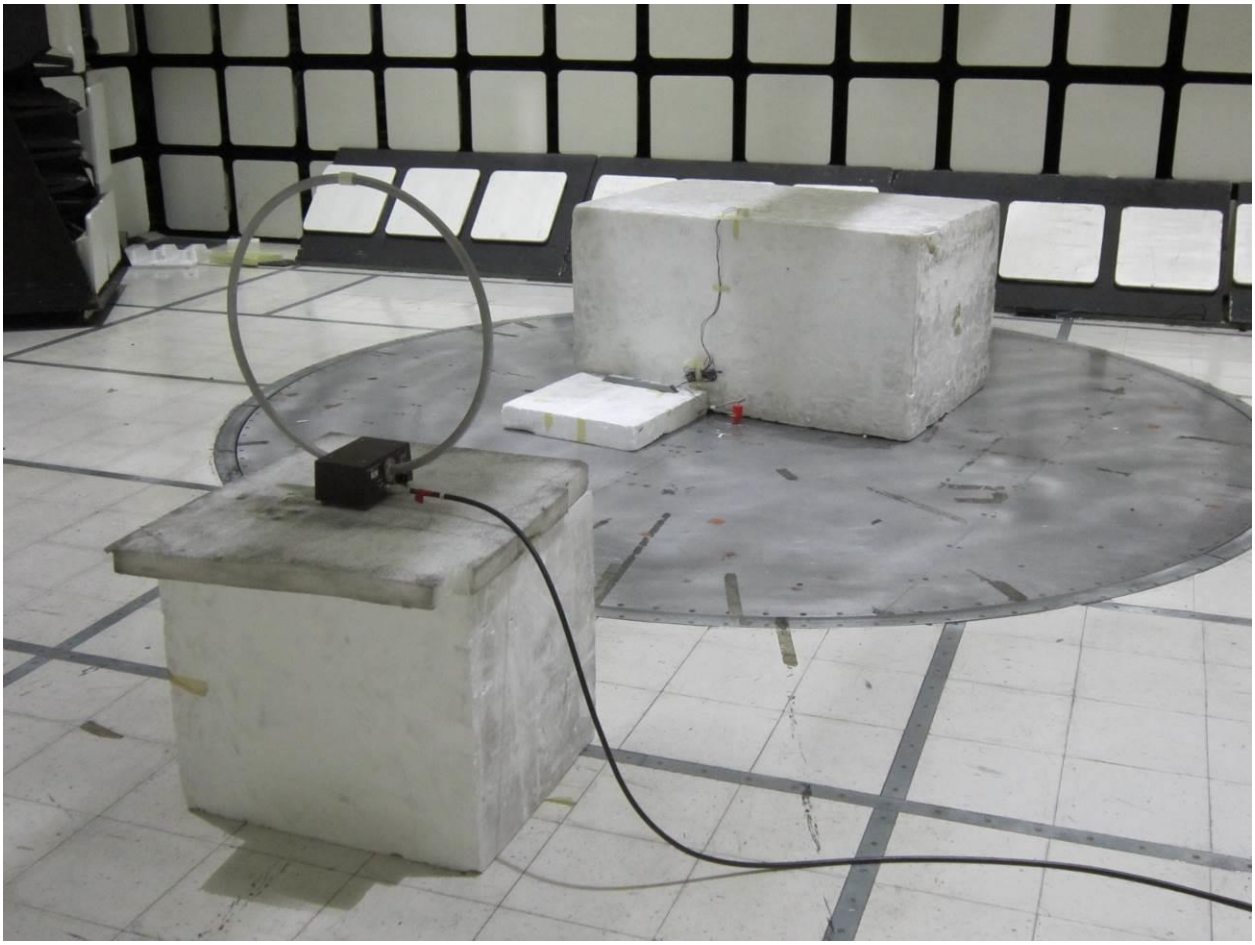
LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

Qp - Quasi-Peak detector
Ca – Cispr Average

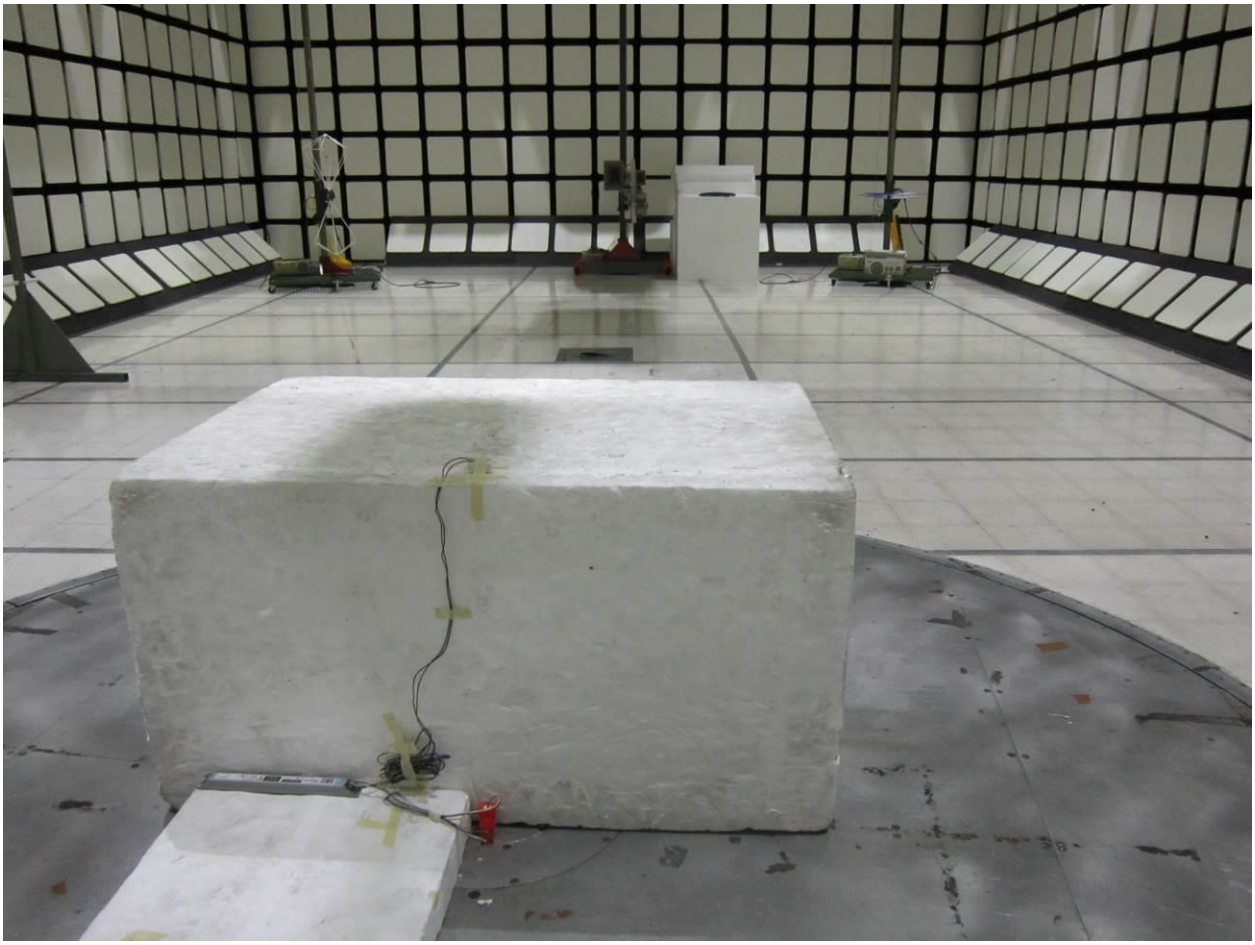
9. SETUP PHOTOS

Near Field Measurements - Bandwidth

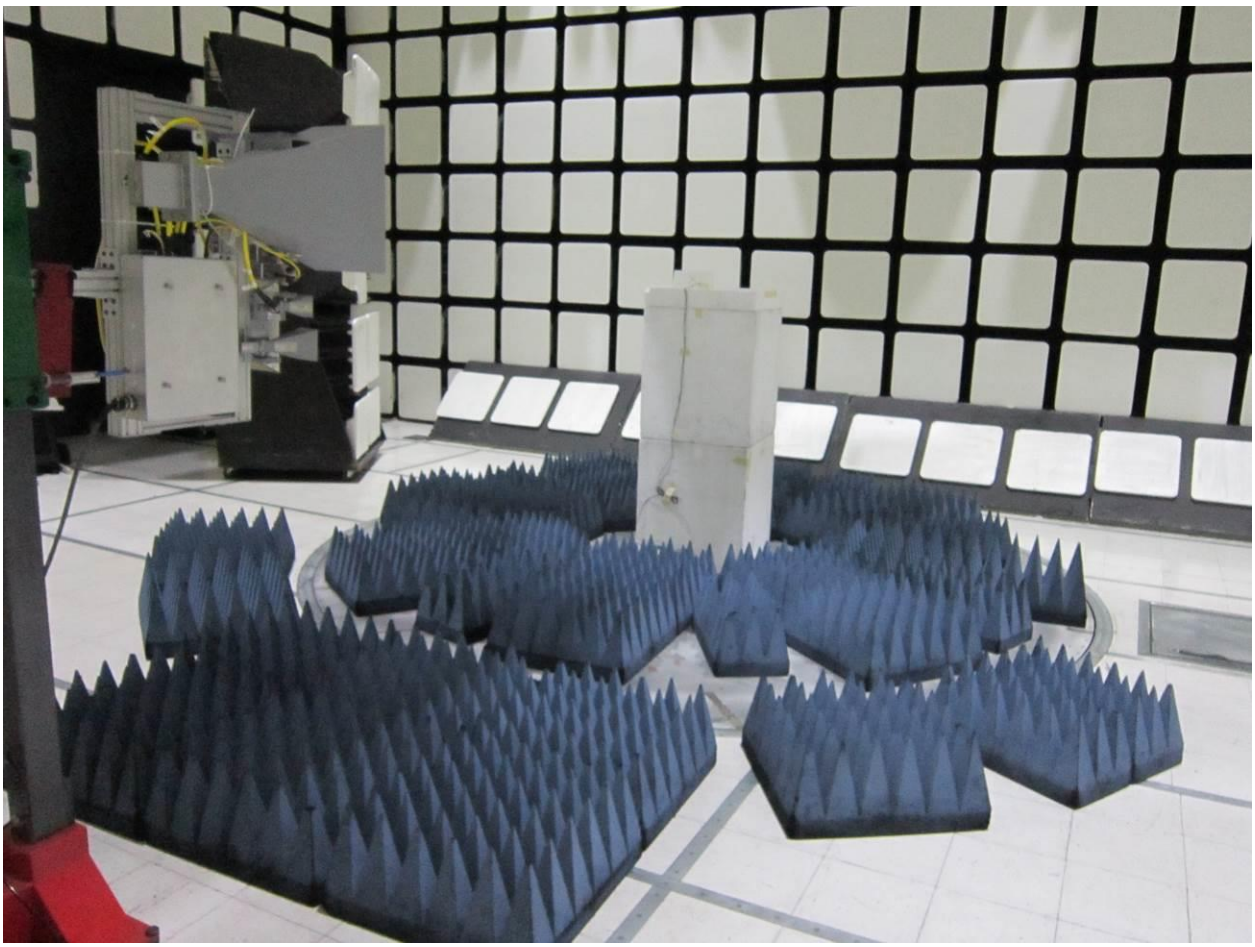
Radiated Emissions 9kHz-30MHz



Radiated Emissions 30MHz – 1GHz



Radiated Emissions 1GHz – 25GHz



Line Conducted Emissions

END OF REPORT