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Order Number: 10275517
Date: June 4, 2014
Model: SSDB1

Electromagnetic Compatibility Test Report

For

Philips Lighting Electronics N. A.

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Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Test Report Details

Tests Performed By: **UL LLC**
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Northbrook, IL 60062

Tests Performed For: **Philips Lighting Electronics N. A.**
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Test Report Date: **June 4, 2014**

Product Type: **Wireless Device**

Product standards **FCC Part 15, Subpart C, 15.247, RSS-210**

Model Number: **SSDB1**

EUT Category: **Wireless Device**

Testing Start Date: **January 2014**

Date Testing Complete: **April 2014**

Overall Results: **Compliant**

UL LLC reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL LLC shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL LLC issued reports. 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.

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
none			

1.0 G E N E R A L - Product Description

1.1 Equipment Description

The EUT is a Wireless DTS 902MHz-928MHz Limited Module.

1.2 Device Configuration During Test

1.2.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Light Controller	Philips	SSDB1	Module tested inside various hosts
AE	StarSense	Philips	Low Voltage On/Off Only	Low voltage host (120V60H and 277V60Hz) with on / off capability only
AE	StarSense	Philips	Dimming	Dimming host (120V60H and 277V60Hz)
AE	StarSense	Philips	High Voltage On/Off Only	High voltage host (347V60H and 480V60Hz) with on / off capability only
Note: EUT – Equipment Under Test, AE – Auxiliary/Associated Equipment, or SIM – Simulator (Not Subjected to Test)				
* For antenna port measurements the module was tested while powered directly by external power supply with 5VDC. This was done to protect the spectrum analyzer from high voltages.				

1.2.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	N	N	Module is Powered by the host
2	DC Voltage	DC	N	N	5VDC connected directly to the module, used only for antenna port measurements.
Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port (Not Involved in Process Control) TP = Telecommunication Ports					

1.2.3 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	120	-	-	AC	1	none
2	277	-	-	AC	1	none
3	347	-	-	AC	1	none
4	480	-	-	AC	1	none
5	5	-	-	DC	1	Used for Antenna Port Measurements.

1.3 EUT Configurations

Mode #	Description
1	EUT was removed from a host and connected to 5VDC supply (used for antenna port measurements only)
2	EUT was installed inside a specific host, setup on approximately 80cm support (used for Radiated Emissions and Line conducted emissions)

1.4 EUT Operation Modes

Mode #	Description
1	EUT set to transmit continuously on either low, middle or high channels
2	EUT set to receive on a channel
3	EUT set to sleep mode (radio transceiver module)

1.5 Rational for EUT Configuration

Mode #	Description
1	The selected EUT configuration was chosen as representative for various configurations and were chosen to show that in some cases the host only meets class A limits regardless of the mode the radio device is in.

2.0 Summary

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL LLC in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

2.1 Deviations from standard test methods

None

2.2 Device Modifications Necessary for Compliance

None

2.3 Reference Standards

Standard Number	Standard Name	Standard Date
FCC Part 15, Subpart C, 15.247	Code of Federal Regulations, Part 15, Radio Frequency Devices	2012
RSS-210	License-exempt Radio Apparatus (All Frequency Bands): Category I Equipment	Issue 8
FCC KDB558074 D01 DTS Meas Guidance v03r01. In addition additional guidance from FCC was used which allows the use of peak measurements and duty cycle correction for Radiated Spurious Emissions.		

2.4 Results Summary

This end product (transceiver with the host) is considered Class A

Requirement – Test	Result (Compliant / Non-Compliant)*
Mains Terminal - Conducted Emissions	*Compliant
Radiated Emissions – Receiver Mode	*Compliant
Spurious Emissions (Antenna Conducted and Radiated)	*Compliant
Band Edge Compliance	Compliant
6dB Bandwidth Measurement	Compliant
Maximum Peak Output Power	Compliant
Power Spectral Density	Compliant
99% Power Bandwidth	N/A – Data Only
* The end product in which the device will be installed is considered to be class A device. For both radiated emissions and line conducted emissions multiple operating modes/configurations were tested to show that regardless of mode or configuration the end device (host) will only comply with class A limits. Another version of the radio module was certified (with shield) under FCC ID:VBO-SSDB1S. The module with shield is identical to this one, except that the board near antenna is wider to make space for the shield. The module alone fully complies with the class B limits.	

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3.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

4.0 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- United States -----

Code of Federal Regulations Title 47	Part 15, Subpart C, Radio Frequency Devices
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----- Canada -----

Spectrum Management and Telecommunications Radio Standards Specification	License-exempt Radio Apparatus (All Frequency Bands): Category I Equipment
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Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

Ambient Temperature, °C	22.5 ± 2.5	Relative Humidity, %	45 ± 15	Barometric Pressure, mBar	950 ± 150
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Measurement Uncertainty

Test	Range	Equipment	Uncertainty k=2
Conducted Emissions	150k-30MHz	LISN	2.29dB
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

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)

4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS

Test Description	Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN. The EUT was placed approximately 80cm above horizontal ground plane and 40cm from the vertical ground plane (+/- 10%).	
Basic Standard	47 CFR Part 15.107, 15.207 RSS-Gen 7.2.4	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
Limits - Class B (FCC 15.107(a) and 15.207		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 - 56	56 - 46
0.5-5.0	56	46
5.0-30	60	50
Supplementary information: The module with the host in some cases complies only with the FCC Class A limits. With all the data collected (see below) it was determined that the module does not add to the emission levels and it is the host (LV and HV supply) responsible for the emissions. Another version of the module (FCC ID: VBO-SSDB1S & IC: 135Y-SSDB1S) was tested as stand-alone full-module with shield. The module complies with FCC class B limits.		

Table 1 Conducted Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1,2,3,4	2	1,2,3
Supplementary information: None		

4.1.1 Low Voltage, On/Off (120V/60Hz)

Figure 1 Conducted Emissions Graph – Radio RX Mode

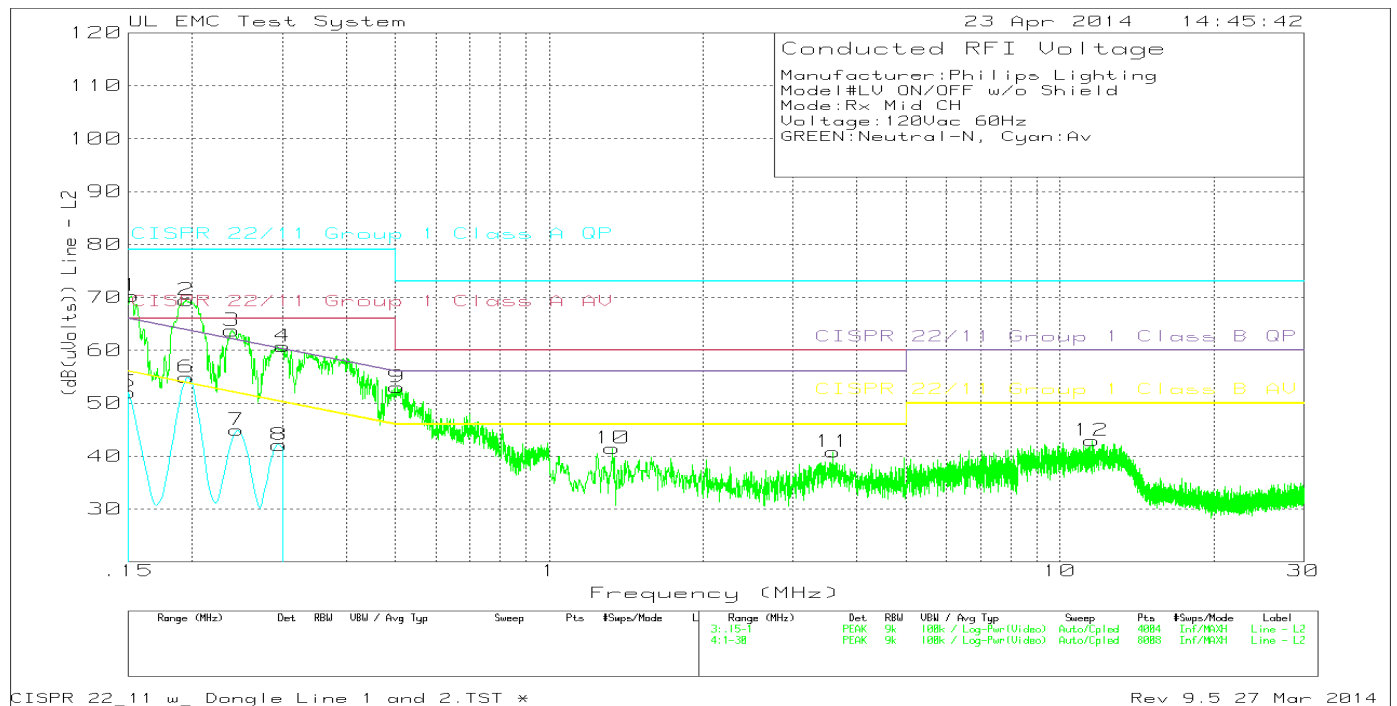
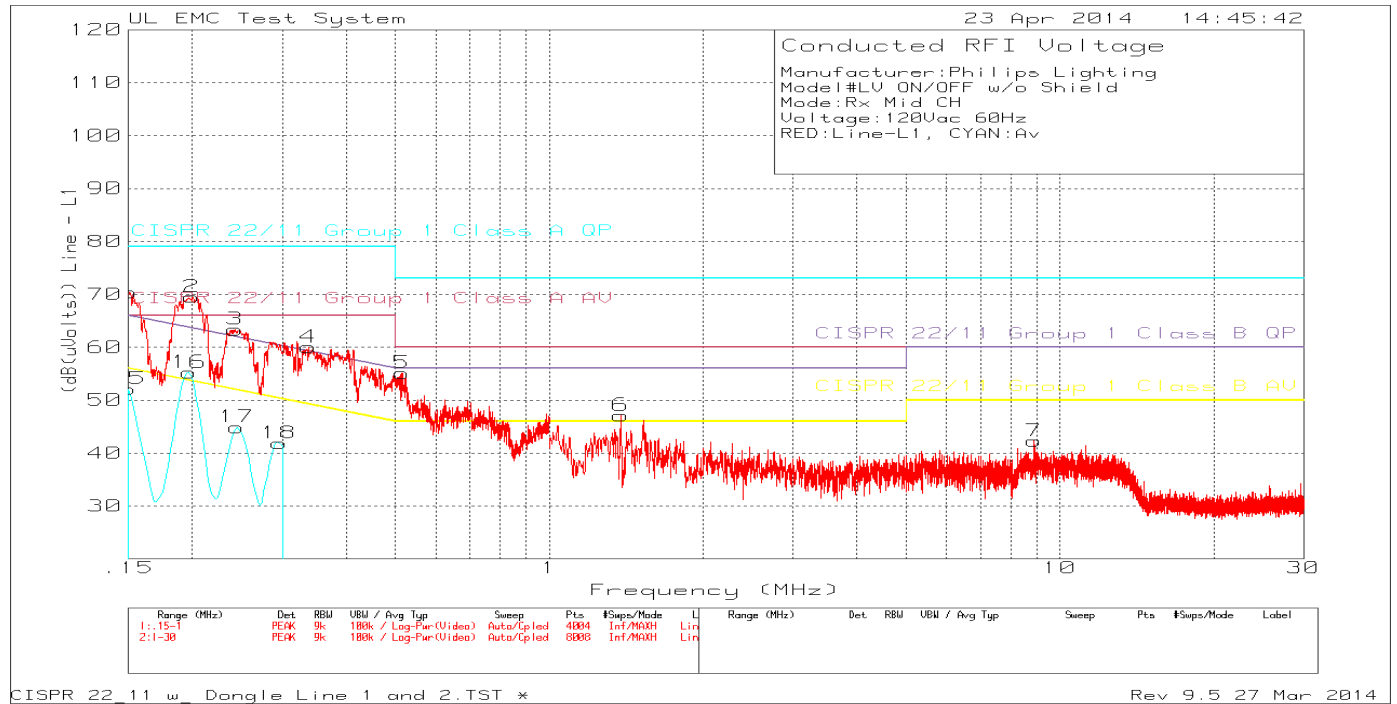


Table 2 Conducted Emissions Data Points – Radio RX mode

Manufacturer: Philips Lighting
 Model# LV ON/OFF w/o Shield
 Mode: Rx Mid CH
 Voltage: 120Vac 60Hz
 RED: Line-L1, CYAN: AV

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.15085	55.8dBuV PK	.1	14.5	70.4	79	66	65.95	55.95	-	-
					Margin (dB)	-8.6	4.4	4.45	14.45	-	-
2	.19969	57.92dBuV PK	.1	11.5	69.52	79	66	63.62	53.62	-	-
					Margin (dB)	-9.48	3.52	5.9	15.9	-	-
3	.24247	51.97dBuV PK	.1	11.3	63.37	79	66	62.01	52.01	-	-
					Margin (dB)	-15.63	-2.63	1.36	11.36	-	-
4	.33813	49.1dBuV PK	.1	10.8	60	79	66	59.25	49.25	-	-
					Margin (dB)	-19	-6	.75	10.75	-	-
5	.51523	44.4dBuV PK	.1	10.6	55.1	73	60	56	46	-	-
					Margin (dB)	-17.9	-4.9	-.9	9.1	-	-
15	.15	37.42dBuV Av	.1	14.6	52.12	79	66	66	56	-	-
					Margin (dB)	-26.88	-13.88	-13.88	-3.88	-	-
16	.19725	43.62dBuV Av	.1	11.5	55.22	79	66	63.73	53.73	-	-
					Margin (dB)	-23.78	-10.78	-8.51	1.49	-	-
17	.2445	33.5dBuV Av	.1	11.3	44.9	79	66	61.94	51.94	-	-
					Margin (dB)	-34.1	-21.1	-17.04	-7.04	-	-
18	.29625	30.88dBuV Av	.1	10.9	41.88	79	66	60.35	50.35	-	-
					Margin (dB)	-37.12	-24.12	-18.47	-8.47	-	-
6	1.38029	36.39dBuV PK	.1	10.6	47.09	73	60	56	46	-	-
					Margin (dB)	-25.91	-12.91	-8.91	1.09	-	-
7	8.90284	31.2dBuV PK	.2	10.9	42.3	73	60	60	50	-	-
					Margin (dB)	-30.7	-17.7	-17.7	-7.7	-	-

Trace Markers for Neutral

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.15191	55.65dBuV PK	.1	14.5	70.25	79	66	65.89	55.89	-	-
					Margin (dB)	-8.75	4.25	4.36	14.36	-	-
2	.19459	57.75dBuV PK	.1	11.6	69.45	79	66	63.84	53.84	-	-
					Margin (dB)	-9.55	3.45	5.61	15.61	-	-
3	.23918	52.32dBuV PK	.1	11.3	63.72	79	66	62.12	52.12	-	-
					Margin (dB)	-15.28	-2.28	1.6	11.6	-	-
4	.30097	49.73dBuV PK	.1	10.9	60.73	79	66	60.22	50.22	-	-
					Margin (dB)	-18.27	-5.27	.51	10.51	-	-
5	.15	37.36dBuV Av	.1	14.6	52.06	79	66	66	56	-	-
					Margin (dB)	-26.94	-13.94	-13.94	-3.94	-	-
6	.195	43.19dBuV Av	.1	11.6	54.89	79	66	63.82	53.82	-	-
					Margin (dB)	-24.11	-11.11	-8.93	1.07	-	-
7	.2445	33.53dBuV Av	.1	11.3	44.93	79	66	61.94	51.94	-	-
					Margin (dB)	-34.07	-21.07	-17.01	-7.01	-	-
8	.29625	31.1dBuV Av	.1	10.9	42.1	79	66	60.35	50.35	-	-
					Margin (dB)	-36.9	-23.9	-18.25	-8.25	-	-
9	.50397	42.25dBuV PK	.1	10.7	53.05	73	60	56	46	-	-
					Margin (dB)	-19.95	-6.95	-2.95	7.05	-	-
10	1.32959	30.8dBuV PK	.1	10.6	41.5	73	60	56	46	-	-
					Margin (dB)	-31.5	-18.5	-14.5	-4.5	-	-
11	3.59685	30.02dBuV PK	.1	10.7	40.82	73	60	56	46	-	-
					Margin (dB)	-32.18	-19.18	-15.18	-5.18	-	-
12	11.54677	31.65dBuV PK	.2	11.1	42.95	73	60	60	50	-	-
					Margin (dB)	-30.05	-17.05	-17.05	-7.05	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

Figure 2 Conducted Emissions Graph – Radio TX Mode

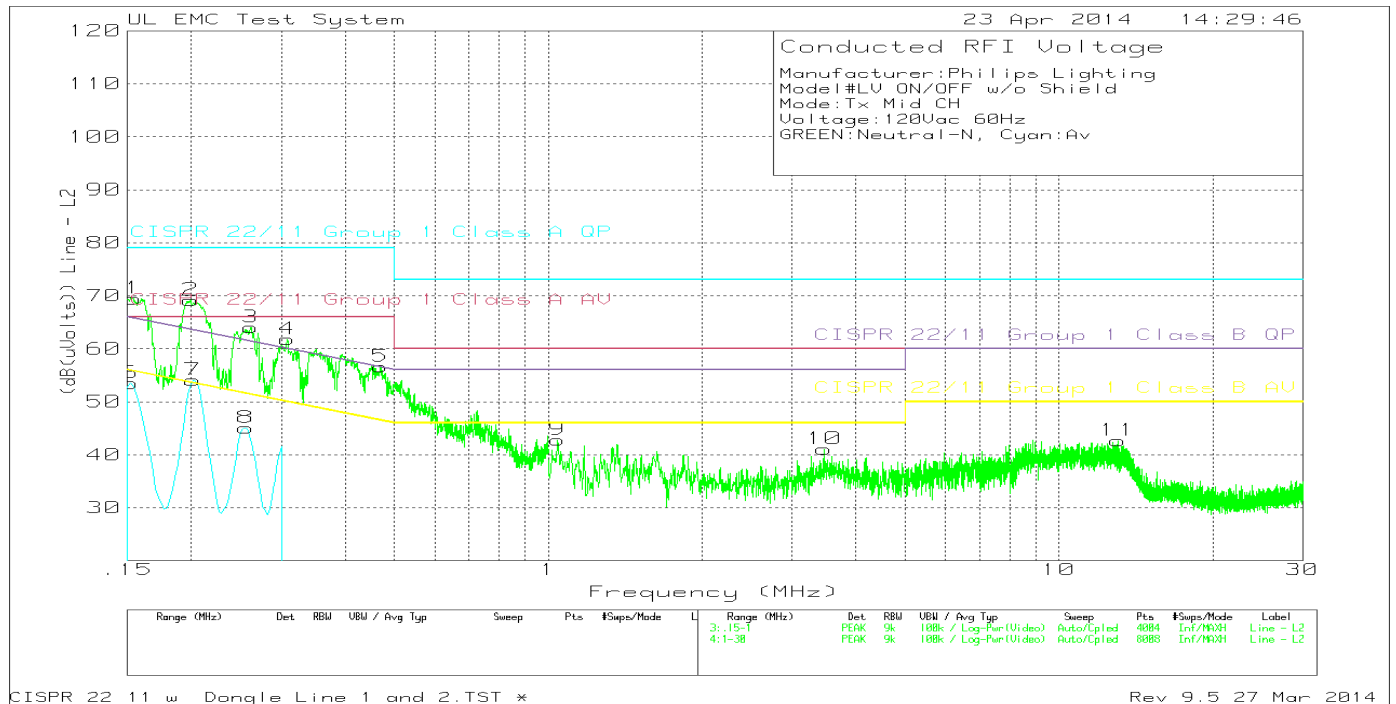
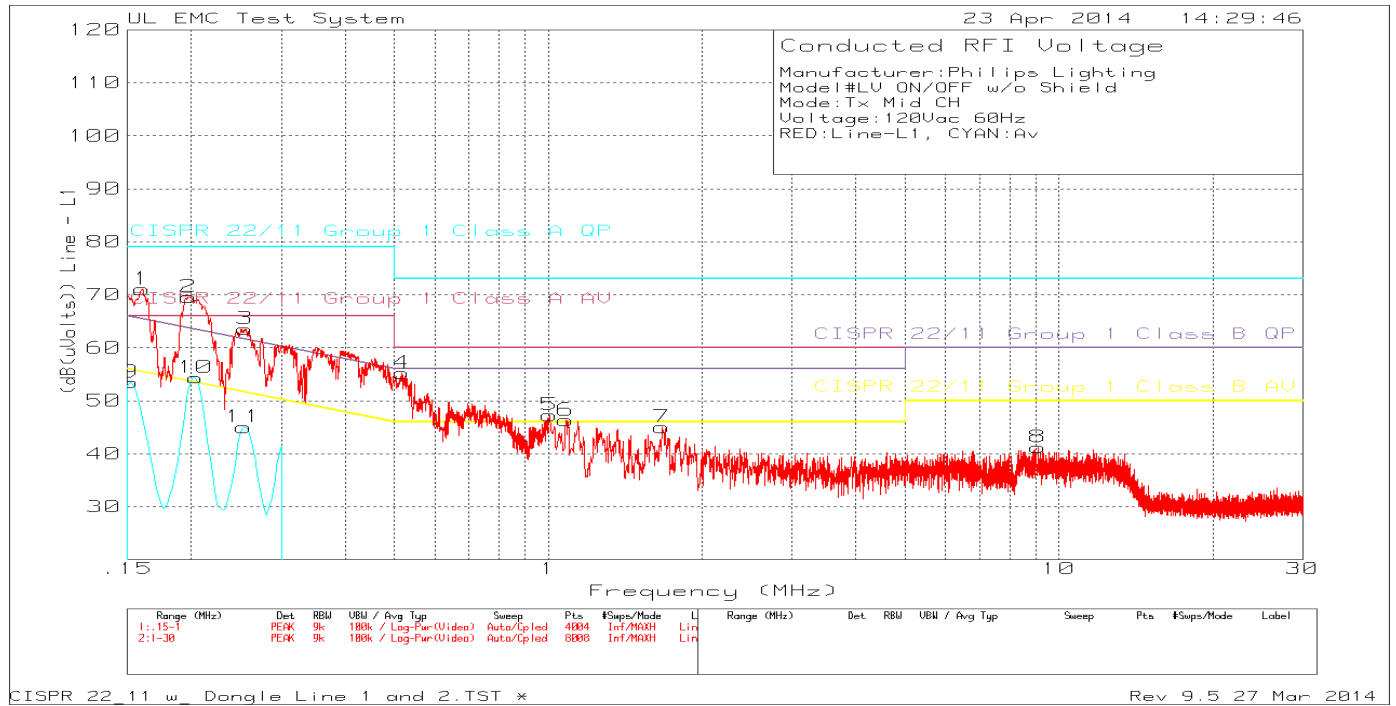


Table 3 Conducted Emissions Data Points – Radio TX Mode

Manufacturer: Philips Lighting
 Model# LV ON/OFF w/o Shield
 Mode: Tx Mid CH
 Voltage: 120Vac 60Hz
 RED: Line-L1, CYAN: Av

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.16019	57.12dBuV PK	.1	13.8	71.02	79	66	65.45	55.45	-	-
					Margin (dB)	-7.98	5.02	5.57	15.57	-	-
2	.19788	58dBuV PK	.1	11.5	69.6	79	66	63.7	53.7	-	-
					Margin (dB)	-9.4	3.6	5.9	15.9	-	-
3	.255	52.26dBuV PK	.1	11.2	63.56	79	66	61.59	51.59	-	-
					Margin (dB)	-15.44	-2.44	1.97	11.97	-	-
4	.51714	44.52dBuV PK	.1	10.6	55.22	73	60	56	46	-	-
					Margin (dB)	-17.78	-4.78	-1.78	9.22	-	-
9	.15225	38.97dBuV Av	.1	14.4	53.47	79	66	65.88	55.88	-	-
					Margin (dB)	-25.53	-12.53	-12.41	-2.41	-	-
10	.204	42.75dBuV Av	.1	11.5	54.35	79	66	63.45	53.45	-	-
					Margin (dB)	-24.65	-11.65	-9.1	.9	-	-
11	.2535	33.72dBuV Av	.1	11.2	45.02	79	66	61.64	51.64	-	-
					Margin (dB)	-33.98	-20.98	-16.62	-6.62	-	-
5	1.00724	36.56dBuV PK	.1	10.6	47.26	73	60	56	46	-	-
					Margin (dB)	-25.74	-12.74	-8.74	1.26	-	-
6	1.0833	35.61dBuV PK	.1	10.6	46.31	73	60	56	46	-	-
					Margin (dB)	-26.69	-13.69	-9.69	.31	-	-
7	1.67004	34.31dBuV PK	.1	10.6	45.01	73	60	56	46	-	-
					Margin (dB)	-27.99	-14.99	-10.99	-.99	-	-
8	9.09479	30.11dBuV PK	.2	10.9	41.21	73	60	60	50	-	-
					Margin (dB)	-31.79	-18.79	-18.79	-8.79	-	-

Trace Markers for Neutral

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.15403	55.07dBuV PK	.1	14.3	69.47	79	66	65.78	55.78	-	-
					Margin (dB)	-9.53	3.47	3.69	13.69	-	-
2	.19948	57.55dBuV PK	.1	11.5	69.15	79	66	63.63	53.63	-	-
					Margin (dB)	-9.85	3.15	5.52	15.52	-	-
3	.26159	52.85dBuV PK	.1	11.1	64.05	79	66	61.38	51.38	-	-
					Margin (dB)	-14.95	-1.95	2.67	12.67	-	-
4	.30841	50.83dBuV PK	.1	10.9	61.83	79	66	60.01	50.01	-	-
					Margin (dB)	-17.17	-4.17	1.82	11.82	-	-
5	.46936	45.83dBuV PK	.1	10.7	56.63	79	66	56.53	46.53	-	-
					Margin (dB)	-22.37	-9.37	.1	10.1	-	-
6	.15225	39.04dBuV Av	.1	14.4	53.54	79	66	65.88	55.88	-	-
					Margin (dB)	-25.46	-12.46	-12.34	-2.34	-	-
7	.20175	42.49dBuV Av	.1	11.5	54.09	79	66	63.54	53.54	-	-
					Margin (dB)	-24.91	-11.91	-9.45	.55	-	-
8	.25575	33.77dBuV Av	.1	11.2	45.07	79	66	61.57	51.57	-	-
					Margin (dB)	-33.93	-20.93	-16.5	-6.5	-	-
9	1.04346	32.12dBuV PK	.1	10.6	42.82	73	60	56	46	-	-
					Margin (dB)	-30.18	-17.18	-13.18	-3.18	-	-
10	3.47009	30.28dBuV PK	.1	10.7	41.08	73	60	56	46	-	-
					Margin (dB)	-31.92	-18.92	-14.92	-4.92	-	-
11	13.03897	31.29dBuV PK	.3	11.1	42.69	73	60	60	50	-	-
					Margin (dB)	-30.31	-17.31	-17.31	-7.31	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

Figure 3 Conducted Emissions Graph – Radio Sleep Mode

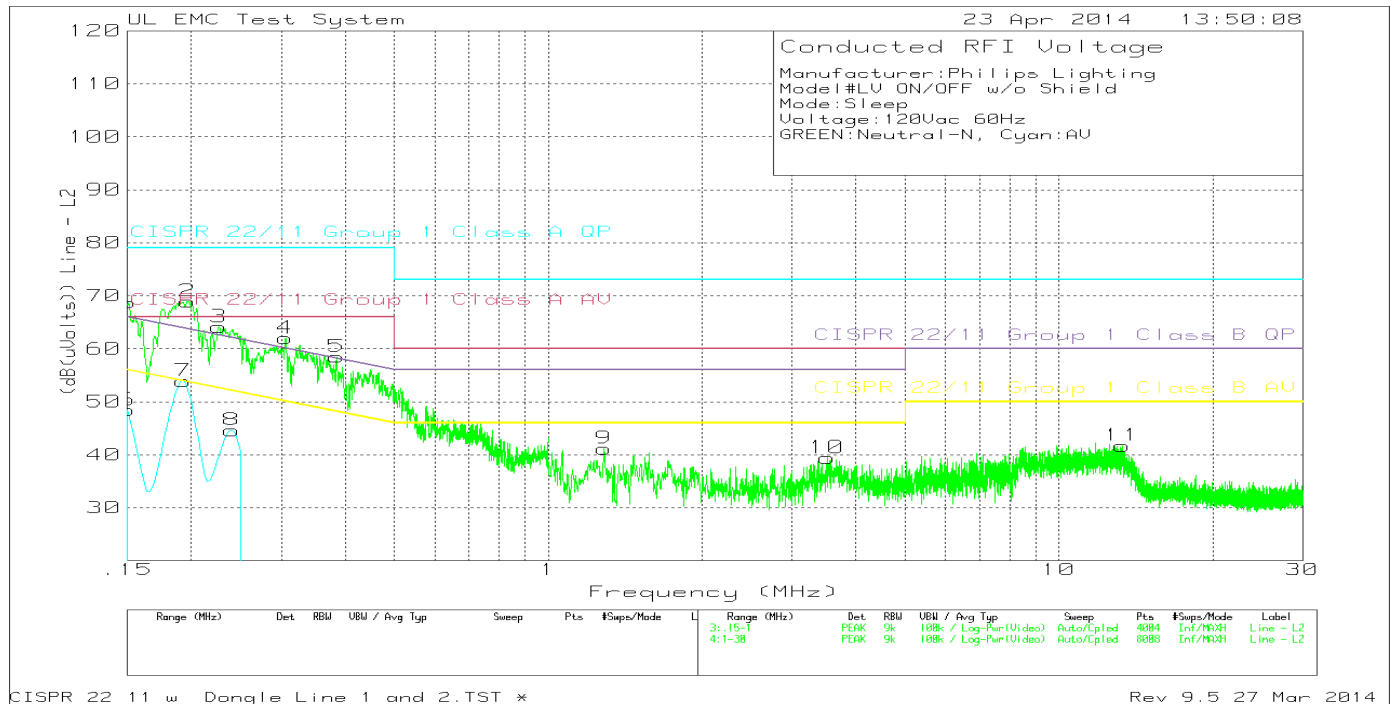
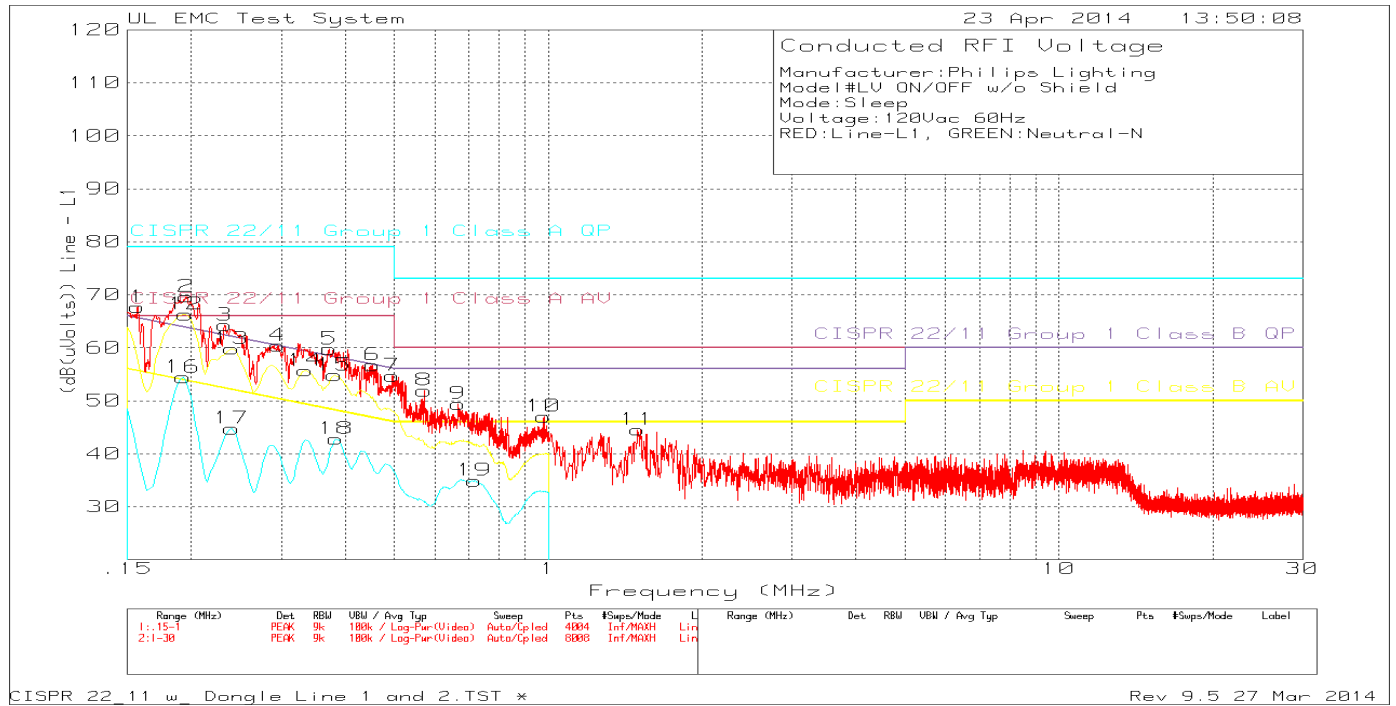


Table 4 Conducted Emissions Data Points – Radio Sleep Mode

Manufacturer: Philips Lighting
 Model# LV ON/OFF w/o Shield
 Mode: Sleep
 Voltage: 120Vac 60Hz
 RED: Line-L1, GREEN: Neutral-N

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB (uVolts))	Limit:1	2	3	4	5	6
1	.15701	53.58dBuV PK	.1	14	67.68	79	66	65.62	55.62	-	-
					Margin (dB)	-11.32	1.68	2.06	12.06	-	-
2	.19576	58.04dBuV PK	.1	11.5	69.64	79	66	63.79	53.79	-	-
					Margin (dB)	-9.36	3.64	5.85	15.85	-	-
3	.2326	52.86dBuV PK	.1	11.3	64.26	79	66	62.36	52.36	-	-
					Margin (dB)	-14.74	-1.74	1.9	11.9	-	-
4	.29567	49.4dBuV PK	.1	10.9	60.4	79	66	60.36	50.36	-	-
					Margin (dB)	-18.6	-5.6	.04	10.04	-	-
5	.37296	48.83dBuV PK	.1	10.8	59.73	79	66	58.43	48.43	-	-
					Margin (dB)	-19.27	-6.27	1.3	11.3	-	-
6	.45322	45.92dBuV PK	.1	10.7	56.72	79	66	56.82	46.82	-	-
					Margin (dB)	-22.28	-9.28	-.1	9.9	-	-
7	.49548	43.92dBuV PK	.1	10.7	54.72	79	66	56.08	46.08	-	-
					Margin (dB)	-24.28	-11.28	-1.36	8.64	-	-
8	.5715	41.24dBuV PK	.1	10.6	51.94	73	60	56	46	-	-
					Margin (dB)	-21.06	-8.06	-4.06	5.94	-	-
9	.66641	38.83dBuV PK	0	10.6	49.43	73	60	56	46	-	-
					Margin (dB)	-23.57	-10.57	-6.57	3.43	-	-
10	.98036	36.32dBuV PK	.1	10.6	47.02	73	60	56	46	-	-
					Margin (dB)	-25.98	-12.98	-8.98	1.02	-	-
12	.195	54.68dBuV QP	.1	11.5	66.28	79	66	63.82	53.82	-	-
					Margin (dB)	-12.72	.28	2.46	12.46	-	-
13	.24	48.41dBuV QP	.1	11.3	59.81	79	66	62.1	52.1	-	-
					Margin (dB)	-19.19	-6.19	-2.29	7.71	-	-
14	.3345	44.81dBuV QP	.1	10.8	55.71	79	66	59.34	49.34	-	-
					Margin (dB)	-23.29	-10.29	-3.63	6.37	-	-
15	.38175	43.91dBuV QP	.1	10.8	54.81	79	66	58.24	48.24	-	-
					Margin (dB)	-24.19	-11.19	-3.43	6.57	-	-
16	.19275	42.72dBuV Av	.1	11.6	54.42	79	66	63.92	53.92	-	-
					Margin (dB)	-24.58	-11.58	-9.5	.5	-	-
17	.24	33.36dBuV Av	.1	11.3	44.76	79	66	62.1	52.1	-	-
					Margin (dB)	-34.24	-21.24	-17.34	-7.34	-	-
18	.384	31.92dBuV Av	.1	10.8	42.82	79	66	58.19	48.19	-	-
					Margin (dB)	-36.18	-23.18	-15.37	-5.37	-	-
19	.717	24.23dBuV Av	.1	10.6	34.93	73	60	56	46	-	-
					Margin (dB)	-38.07	-25.07	-21.07	-11.07	-	-
11	1.49619	33.85dBuV PK	.1	10.6	44.55	73	60	56	46	-	-
					Margin (dB)	-28.45	-15.45	-11.45	-1.45	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 QP - Quasi-Peak detector
 Av - CISPR average detection

Order #: 10275517

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Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model# LV ON/OFF w/o Shield
 Mode: Sleep
 Voltage: 120Vac 60Hz
 GREEN: Neutral-N, Cyan: AV

Trace Markers for Neutral

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB (uVolts))	Limit:1	2	3	4	5	6
1	.15064	54.02dBuV PK	.1	14.6	68.72	79	66	65.96	55.96	-	-
					Margin (dB)	-10.28	2.72	2.76	12.76	-	-
2	.19693	57.24dBuV PK	.1	11.6	68.94	79	66	63.74	53.74	-	-
					Margin (dB)	-10.06	2.94	5.2	15.2	-	-
3	.22655	52.62dBuV PK	.1	11.4	64.12	79	66	62.58	52.58	-	-
					Margin (dB)	-14.88	-1.88	1.54	11.54	-	-
4	.30586	51dBuV PK	.1	10.9	62	79	66	60.08	50.08	-	-
					Margin (dB)	-17	-4	1.92	11.92	-	-
5	.38506	47.61dBuV PK	.1	10.8	58.51	79	66	58.17	48.17	-	-
					Margin (dB)	-20.49	-7.49	.34	10.34	-	-
6	.15	33.75dBuV Av	.1	14.6	48.45	79	66	56	56	-	-
					Margin (dB)	-30.55	-17.55	-17.55	-7.55	-	-
7	.19275	42.25dBuV Av	.1	11.6	53.95	79	66	63.92	53.92	-	-
					Margin (dB)	-25.05	-12.05	-9.97	.03	-	-
8	.24	33.23dBuV Av	.1	11.3	44.63	79	66	62.1	52.1	-	-
					Margin (dB)	-34.37	-21.37	-17.47	-7.47	-	-
9	1.28613	30.49dBuV PK	.1	10.6	41.19	73	60	56	46	-	-
					Margin (dB)	-31.81	-18.81	-14.81	-4.81	-	-
10	3.51717	28.59dBuV PK	.1	10.7	39.39	73	60	56	46	-	-
					Margin (dB)	-33.61	-20.61	-16.61	-6.61	-	-
11	13.3106	30.32dBuV PK	.3	11.1	41.72	73	60	60	50	-	-
					Margin (dB)	-31.28	-18.28	-18.28	-8.28	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

4.1.2 Low Voltage, On/Off (277V/60Hz)

Figure 4 Conducted Emissions Graph – Radio RX Mode

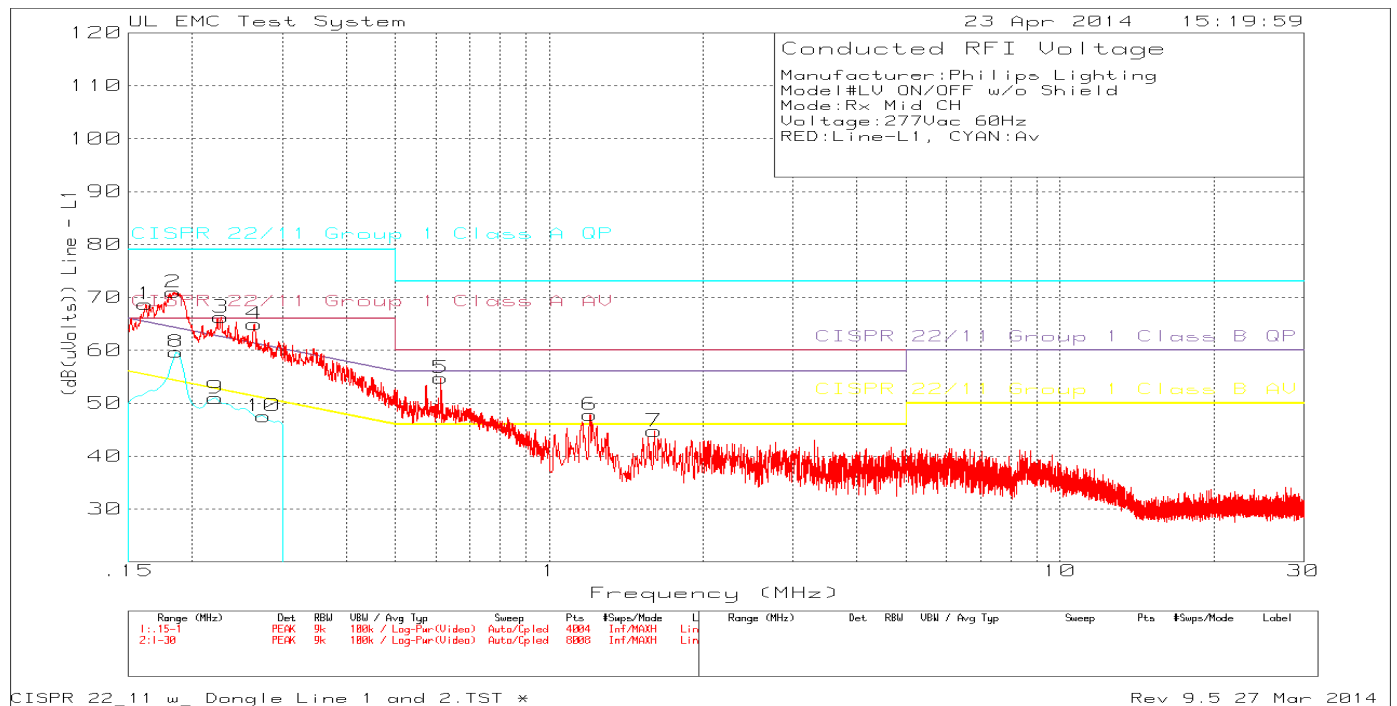
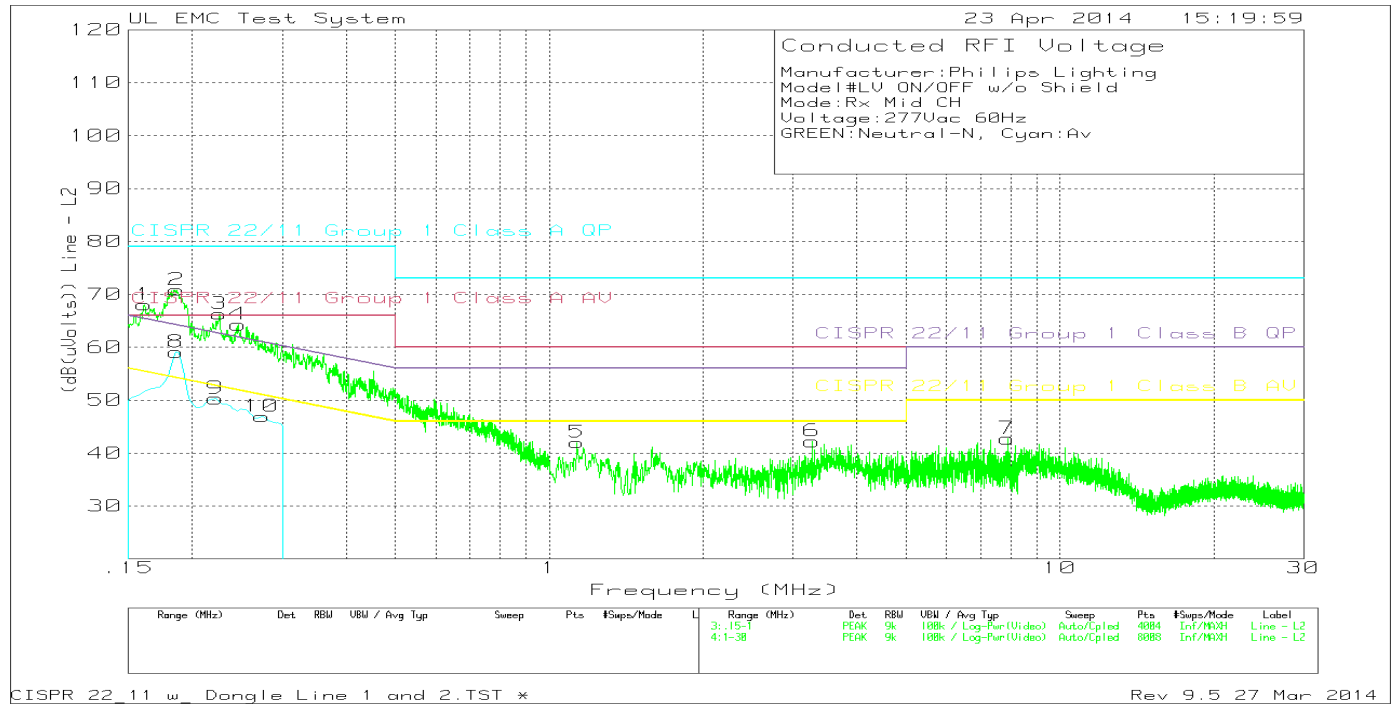


Table 5 Conducted Emissions Data Points – Radio RX mode

Manufacturer: Philips Lighting
 Model# LV ON/OFF w/o Shield
 Mode: Rx Mid CH
 Voltage: 277Vac 60Hz
 RED: Line-L1, CYAN: AV

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.1621	55.04dBuV PK	.1	13.6	68.74	79	66	65.36	55.36	-	-
					Margin (dB)	-10.26	2.74	3.38	13.38	-	-
2	.18376	58.98dBuV PK	.1	11.9	70.98	79	66	64.31	54.31	-	-
					Margin (dB)	-8.02	4.98	6.67	16.67	-	-
3	.22772	54.75dBuV PK	.1	11.4	66.25	79	66	62.53	52.53	-	-
					Margin (dB)	-12.75	.25	3.72	13.72	-	-
4	.26466	53.77dBuV PK	.1	11.1	64.97	79	66	61.28	51.28	-	-
					Margin (dB)	-14.03	-1.03	3.69	13.69	-	-
5	.61312	44.09dBuV PK	.1	10.6	54.79	73	60	56	46	-	-
					Margin (dB)	-18.21	-5.21	-1.21	8.79	-	-
8	.186	47.87dBuV Av	.1	11.7	59.67	79	66	64.21	54.21	-	-
					Margin (dB)	-19.33	-6.33	-4.54	5.46	-	-
9	.222	39.45dBuV Av	.1	11.4	50.95	79	66	62.74	52.74	-	-
					Margin (dB)	-28.05	-15.05	-11.79	-1.79	-	-
10	.276	36.46dBuV Av	.1	11	47.56	79	66	60.94	50.94	-	-
					Margin (dB)	-31.44	-18.44	-13.38	-3.38	-	-
6	1.20101	37.12dBuV PK	.1	10.6	47.82	73	60	56	46	-	-
					Margin (dB)	-25.18	-12.18	-8.18	1.82	-	-
7	1.60485	34.03dBuV PK	.1	10.6	44.73	73	60	56	46	-	-
					Margin (dB)	-28.27	-15.27	-11.27	-1.27	-	-

Trace Markers for Line 2

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.16104	54.25dBuV PK	.1	13.7	68.05	79	66	65.41	55.41	-	-
					Margin (dB)	-10.95	2.05	2.64	12.64	-	-
2	.18631	59.03dBuV PK	.1	11.7	70.83	79	66	64.2	54.2	-	-
					Margin (dB)	-8.17	4.83	6.63	16.63	-	-
3	.22602	54.81dBuV PK	.1	11.4	66.31	79	66	62.59	52.59	-	-
					Margin (dB)	-12.69	.31	3.72	13.72	-	-
4	.24598	52.91dBuV PK	.1	11.3	64.31	79	66	61.89	51.89	-	-
					Margin (dB)	-14.69	-1.69	2.42	12.42	-	-
8	.186	47.26dBuV Av	.1	11.7	59.06	79	66	64.21	54.21	-	-
					Margin (dB)	-19.94	-6.94	-5.15	4.85	-	-
9	.222	38.79dBuV Av	.1	11.4	50.29	79	66	62.74	52.74	-	-
					Margin (dB)	-28.71	-15.71	-12.45	-2.45	-	-
10	.27375	35.73dBuV Av	.1	11.1	46.93	79	66	61	51	-	-
					Margin (dB)	-32.07	-19.07	-14.07	-4.07	-	-
5	1.13401	31.31dBuV PK	.1	10.6	42.01	73	60	56	46	-	-
					Margin (dB)	-30.99	-17.99	-13.99	-3.99	-	-
6	3.27089	31.44dBuV PK	.1	10.7	42.24	73	60	56	46	-	-
					Margin (dB)	-30.76	-17.76	-13.76	-3.76	-	-
7	7.88872	31.71dBuV PK	.1	10.9	42.71	73	60	56	50	-	-
					Margin (dB)	-30.29	-17.29	-17.29	-7.29	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 AV - CISPR average detection

Figure 5 Conducted Emissions Graph – Radio TX Mode

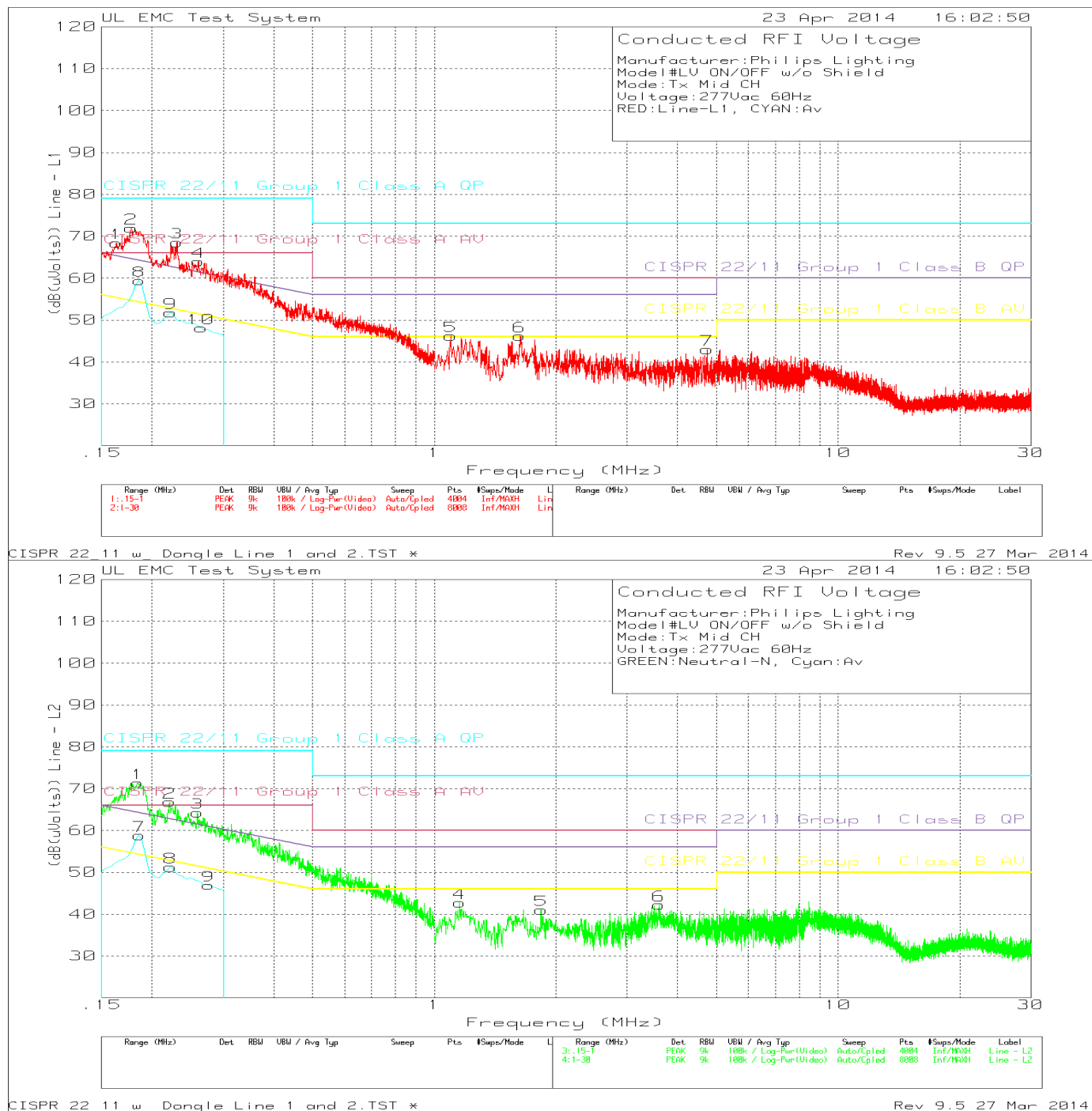


Table 6 Conducted Emissions Data Points – Radio TX Mode

Manufacturer: Philips Lighting
 Model# LV ON/OFF w/o Shield
 Mode: Tx Mid CH
 Voltage: 277Vac 60Hz
 RED: Line-L1, CYAN: AV

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.16317	54.83dBuV PK	.1	13.5	68.43	79	66	65.3	55.3	-	-
					Margin (dB)	-10.57	2.43	3.13	13.13	-	-
2	.17782	59.44dBuV PK	.1	12.4	71.94	79	66	64.59	54.59	-	-
					Margin (dB)	-7.06	5.94	7.35	17.35	-	-
3	.23048	57.06dBuV PK	.1	11.4	68.56	79	66	62.43	52.43	-	-
					Margin (dB)	-10.44	2.56	6.13	16.13	-	-
4	.26063	52.76dBuV PK	.1	11.1	63.96	79	66	61.41	51.41	-	-
					Margin (dB)	-15.04	-2.04	2.55	12.55	-	-
8	.186	47.62dBuV Av	.1	11.7	59.42	79	66	64.21	54.21	-	-
					Margin (dB)	-19.58	-6.58	-4.79	5.21	-	-
9	.222	40.24dBuV Av	.1	11.4	51.74	79	66	62.74	52.74	-	-
					Margin (dB)	-27.26	-14.26	-11	-1	-	-
10	.26475	36.93dBuV Av	.1	11.1	48.13	79	66	61.28	51.28	-	-
					Margin (dB)	-30.87	-17.87	-13.15	-3.15	-	-
5	1.09779	35.53dBuV PK	.1	10.6	46.23	73	60	56	46	-	-
					Margin (dB)	-26.77	-13.77	-9.77	.23	-	-
6	1.62658	35.47dBuV PK	.1	10.6	46.17	73	60	56	46	-	-
					Margin (dB)	-26.83	-13.83	-9.83	.17	-	-
7	4.73773	32.18dBuV PK	.1	10.7	42.98	73	60	56	46	-	-
					Margin (dB)	-30.02	-17.02	-13.02	-3.02	-	-

Trace Markers for Neutral

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.1844	59.47dBuV PK	.1	11.8	71.37	79	66	64.29	54.29	-	-
					Margin (dB)	-7.63	5.37	7.08	17.08	-	-
2	.22092	55.26dBuV PK	.1	11.4	66.76	79	66	62.78	52.78	-	-
					Margin (dB)	-12.24	.76	3.98	13.98	-	-
3	.25893	53.01dBuV PK	.1	11.2	64.31	79	66	61.47	51.47	-	-
					Margin (dB)	-14.69	-1.69	2.84	12.84	-	-
7	.186	47dBuV Av	.1	11.7	58.8	79	66	64.21	54.21	-	-
					Margin (dB)	-20.2	-7.2	-5.41	4.59	-	-
8	.222	39.74dBuV Av	.1	11.4	51.24	79	66	62.74	52.74	-	-
					Margin (dB)	-27.76	-14.76	-11.5	-1.5	-	-
9	.276	35.83dBuV Av	.1	11	46.93	79	66	60.94	50.94	-	-
					Margin (dB)	-32.07	-19.07	-14.01	-4.01	-	-
4	1.15574	32.04dBuV PK	.1	10.6	42.74	73	60	56	46	-	-
					Margin (dB)	-30.26	-17.26	-13.26	-3.26	-	-
5	1.84027	30.36dBuV PK	.1	10.6	41.06	73	60	56	46	-	-
					Margin (dB)	-31.94	-18.94	-14.94	-4.94	-	-
6	3.60048	31.39dBuV PK	.1	10.7	42.19	73	60	56	46	-	-
					Margin (dB)	-30.81	-17.81	-13.81	-3.81	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

Av - CISPR average detection

4.1.3 Low Voltage, Dimming, (120V/60Hz)

Figure 6 Conducted Emissions Graph – Radio RX Mode

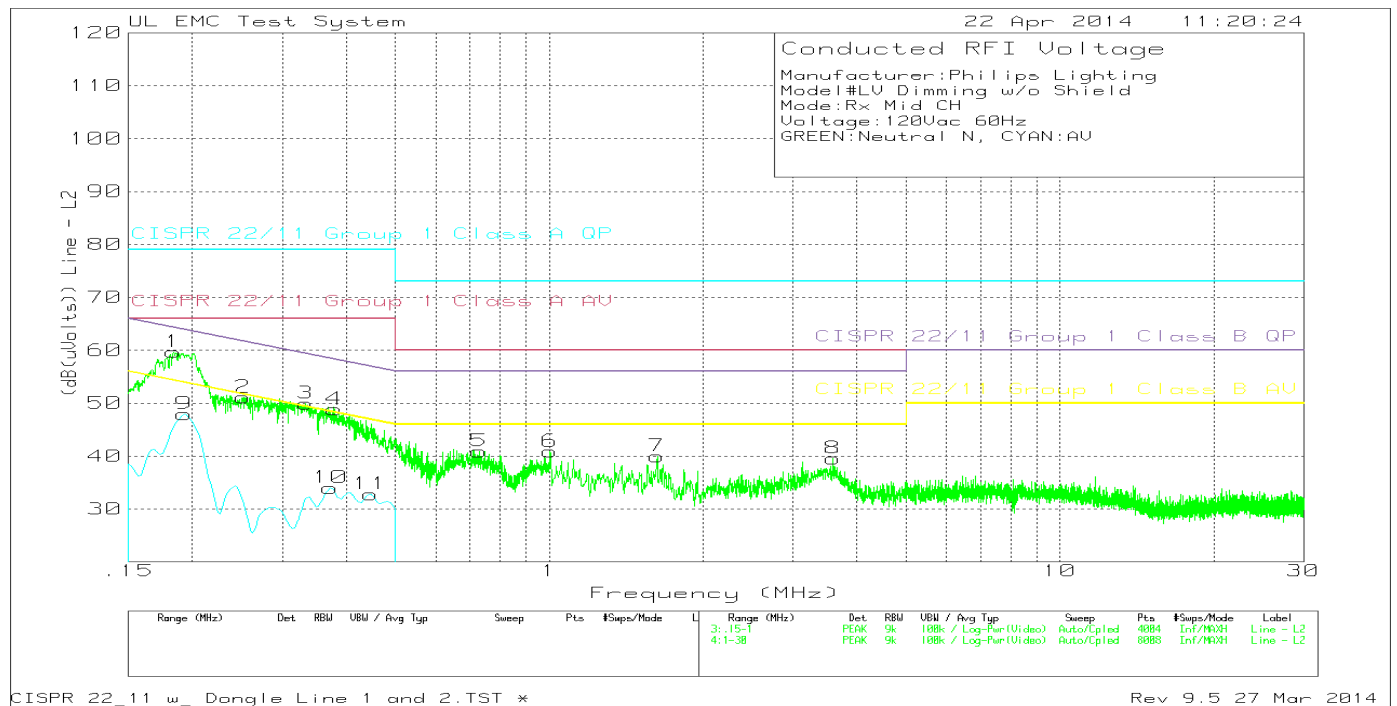
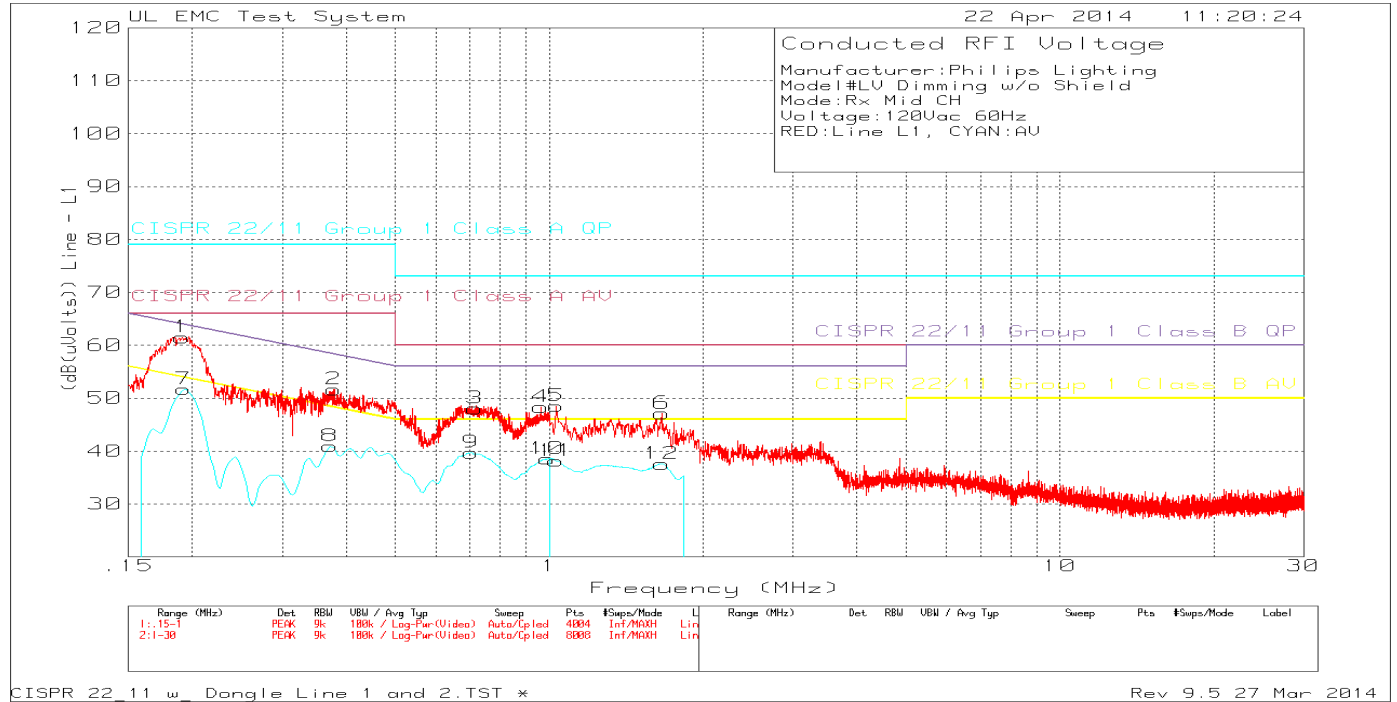


Table 7 Conducted Emissions Data Points – Radio RX mode

Manufacturer: Philips Lighting
 Model# LV Dimming w/o Shield
 Mode: Rx Mid CH
 Voltage: 120Vac 60Hz
 RED: Line L1, CYAN: AV

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.19098	49.81dBuV PK	.1	11.6	61.51	79	66	63.99	53.99	-	-
					Margin (dB)	-17.49	-4.49	-2.48	7.52	-	-
2	.3789	40.77dBuV PK	.1	10.8	51.67	79	66	58.3	48.3	-	-
					Margin (dB)	-27.33	-14.33	-6.63	3.37	-	-
3	.7161	37.38dBuV PK	.1	10.6	48.08	73	60	56	46	-	-
					Margin (dB)	-24.92	-11.92	-7.92	2.08	-	-
4	.96369	37.64dBuV PK	.1	10.6	48.34	73	60	56	46	-	-
					Margin (dB)	-24.66	-11.66	-7.66	2.34	-	-
7	.19261	40.02dBuV Av	.1	11.6	51.72	79	66	63.92	53.92	-	-
					Margin (dB)	-27.28	-14.28	-12.2	-2.2	-	-
8	.37261	30.04dBuV Av	.1	10.8	40.94	79	66	58.44	48.44	-	-
					Margin (dB)	-38.06	-25.06	-17.5	-7.5	-	-
9	.70336	29dBuV Av	.1	10.6	39.7	73	60	56	46	-	-
					Margin (dB)	-33.3	-20.3	-16.3	-6.3	-	-
10	.99136	27.84dBuV Av	.1	10.6	38.54	73	60	56	46	-	-
					Margin (dB)	-34.46	-21.46	-17.46	-7.46	-	-
5	1.0326	37.83dBuV PK	.1	10.6	48.53	73	60	56	46	-	-
					Margin (dB)	-24.47	-11.47	-7.47	2.53	-	-
6	1.6628	36.42dBuV PK	.1	10.6	47.12	73	60	56	46	-	-
					Margin (dB)	-25.88	-12.88	-8.88	1.12	-	-
11	1.0315	27.48dBuV Av	.1	10.6	38.18	73	60	56	46	-	-
					Margin (dB)	-34.82	-21.82	-17.82	-7.82	-	-
12	1.6615	26.88dBuV Av	.1	10.6	37.58	73	60	56	46	-	-
					Margin (dB)	-35.42	-22.42	-18.42	-8.42	-	-

Trace Markers for Neutral

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.18398	47.68dBuV PK	.1	11.9	59.68	79	66	64.3	54.3	-	-
					Margin (dB)	-19.32	-6.32	-4.62	5.38	-	-
2	.25171	39.81dBuV PK	.1	11.2	51.11	79	66	61.7	51.7	-	-
					Margin (dB)	-27.89	-14.89	-10.59	-5.59	-	-
3	.33368	39.03dBuV PK	.1	10.8	49.93	79	66	59.36	49.36	-	-
					Margin (dB)	-29.07	-16.07	-9.43	.57	-	-
4	.37954	37.95dBuV PK	.1	10.8	48.85	79	66	58.29	48.29	-	-
					Margin (dB)	-30.15	-17.15	-9.44	.56	-	-
5	.72905	30.22dBuV PK	.1	10.6	40.92	73	60	56	46	-	-
					Margin (dB)	-32.08	-19.08	-15.08	-5.08	-	-
9	.19275	36.23dBuV Av	.1	11.6	47.93	79	66	63.92	53.92	-	-
					Margin (dB)	-31.07	-18.07	-15.99	-5.99	-	-
10	.37275	23.09dBuV Av	.1	10.8	33.99	79	66	58.44	48.44	-	-
					Margin (dB)	-45.01	-32.01	-24.45	-14.45	-	-
11	.447	22dBuV Av	.1	10.7	32.8	79	66	56.93	46.93	-	-
					Margin (dB)	-46.2	-33.2	-24.13	-14.13	-	-
6	1.00362	30.15dBuV PK	.1	10.6	40.85	73	60	56	46	-	-
					Margin (dB)	-32.15	-19.15	-15.15	-5.15	-	-
7	1.62658	29.27dBuV PK	.1	10.6	39.97	73	60	56	46	-	-
					Margin (dB)	-33.03	-20.03	-16.03	-6.03	-	-
8	3.59685	28.76dBuV PK	.1	10.7	39.56	73	60	56	46	-	-
					Margin (dB)	-33.44	-20.44	-16.44	-6.44	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

Figure 7 Conducted Emissions Graph – Radio TX Mode

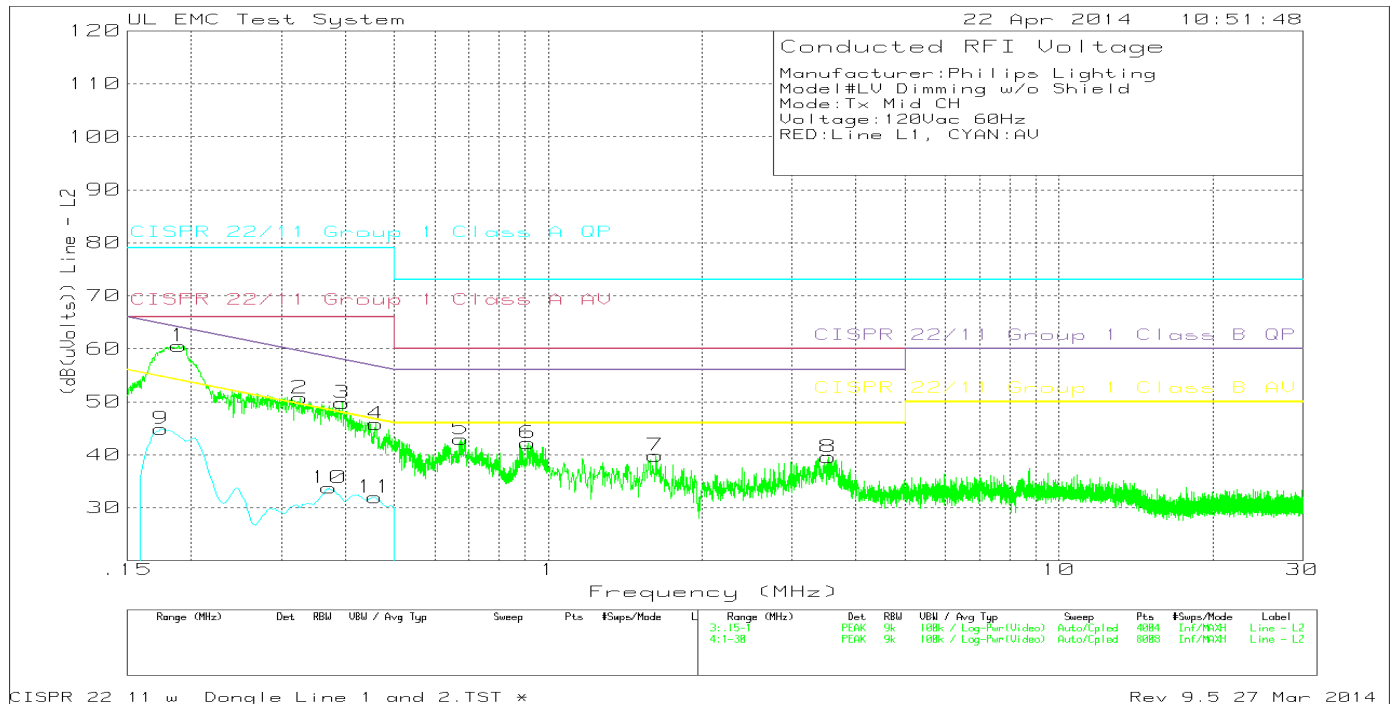
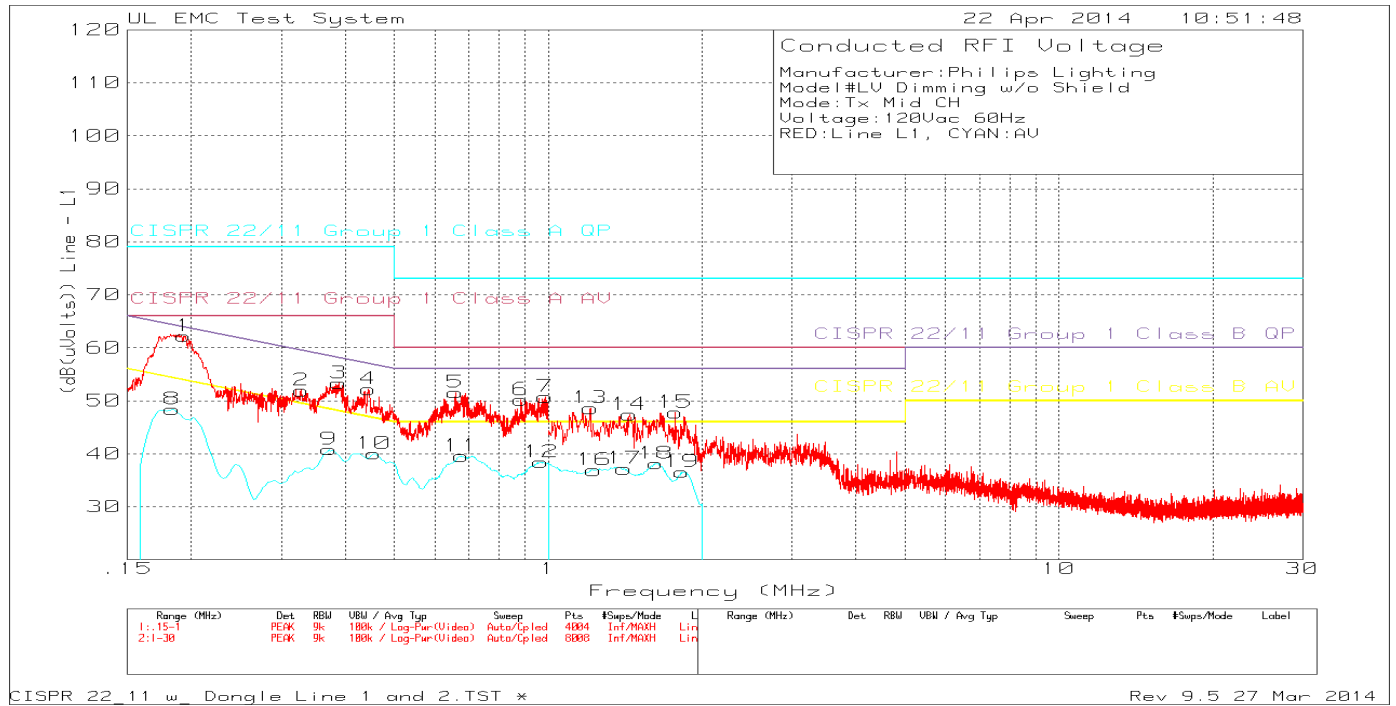


Table 8 Conducted Emissions Data Points – Radio TX Mode

Manufacturer: Philips Lighting
 Model# LV Dimming w/o Shield
 Mode: Tx Mid CH
 Voltage: 120Vac 60Hz
 RED: Line L1, CYAN: AV

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.19353	50.53dBuV PK	.1	11.6	62.23	79	66	63.88	53.88	-	-
					Margin (dB)	-16.77	-3.77	-1.65	8.35	-	-
2	.32879	41.04dBuV PK	.1	10.8	51.94	79	66	59.48	49.48	-	-
					Margin (dB)	-27.06	-14.06	-7.54	2.46	-	-
3	.38888	42.53dBuV PK	.1	10.7	53.33	79	66	58.09	48.09	-	-
					Margin (dB)	-25.67	-12.67	-4.76	5.24	-	-
4	.44473	41.4dBuV PK	.1	10.7	52.2	79	66	56.97	46.97	-	-
					Margin (dB)	-26.8	-13.8	-4.77	5.23	-	-
5	.65919	40.86dBuV PK	.1	10.6	51.56	73	60	56	46	-	-
					Margin (dB)	-21.44	-8.44	-4.44	5.56	-	-
6	.88406	39.47dBuV PK	.1	10.6	50.17	73	60	56	46	-	-
					Margin (dB)	-22.83	-9.83	-5.83	4.17	-	-
7	.98705	40.05dBuV PK	.1	10.6	50.75	73	60	56	46	-	-
					Margin (dB)	-22.25	-9.25	-5.25	4.75	-	-
8	.18361	36.39dBuV Av	.1	11.9	48.39	79	66	64.32	54.32	-	-
					Margin (dB)	-30.61	-17.61	-15.93	-5.93	-	-
9	.37261	29.91dBuV Av	.1	10.8	40.81	79	66	58.44	48.44	-	-
					Margin (dB)	-38.19	-25.19	-17.63	-7.63	-	-
10	.45586	29.23dBuV Av	.1	10.7	40.03	79	66	56.77	46.77	-	-
					Margin (dB)	-38.97	-25.97	-16.74	-6.74	-	-
11	.67636	28.84dBuV Av	.1	10.6	39.54	73	60	56	46	-	-
					Margin (dB)	-33.46	-20.46	-16.46	-6.46	-	-
12	.96886	27.72dBuV Av	.1	10.6	38.42	73	60	56	46	-	-
					Margin (dB)	-34.58	-21.58	-17.58	-7.58	-	-
13	1.21007	37.92dBuV PK	.1	10.6	48.62	73	60	56	46	-	-
					Margin (dB)	-24.38	-11.38	-7.38	2.62	-	-
14	1.44186	36.66dBuV PK	.1	10.6	47.36	73	60	56	46	-	-
					Margin (dB)	-25.64	-12.64	-8.64	1.36	-	-
15	1.77507	37.08dBuV PK	.1	10.6	47.78	73	60	56	46	-	-
					Margin (dB)	-25.22	-12.22	-8.22	1.78	-	-
16	1.2295	26.23dBuV Av	.1	10.6	36.93	73	60	56	46	-	-
					Margin (dB)	-36.07	-23.07	-19.07	-9.07	-	-
17	1.4095	26.46dBuV Av	.1	10.6	37.16	73	60	56	46	-	-
					Margin (dB)	-35.84	-22.84	-18.84	-8.84	-	-
18	1.6255	27.45dBuV Av	.1	10.6	38.15	73	60	56	46	-	-
					Margin (dB)	-34.85	-21.85	-17.85	-7.85	-	-
19	1.828	25.85dBuV Av	.1	10.6	36.55	73	60	56	46	-	-
					Margin (dB)	-36.45	-23.45	-19.45	-9.45	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model# LV Dimming w/o Shield
 Mode: Tx Mid CH
 Voltage: 120Vac 60Hz
 RED: Line L1, CYAN: AV

Trace Markers for Neutral

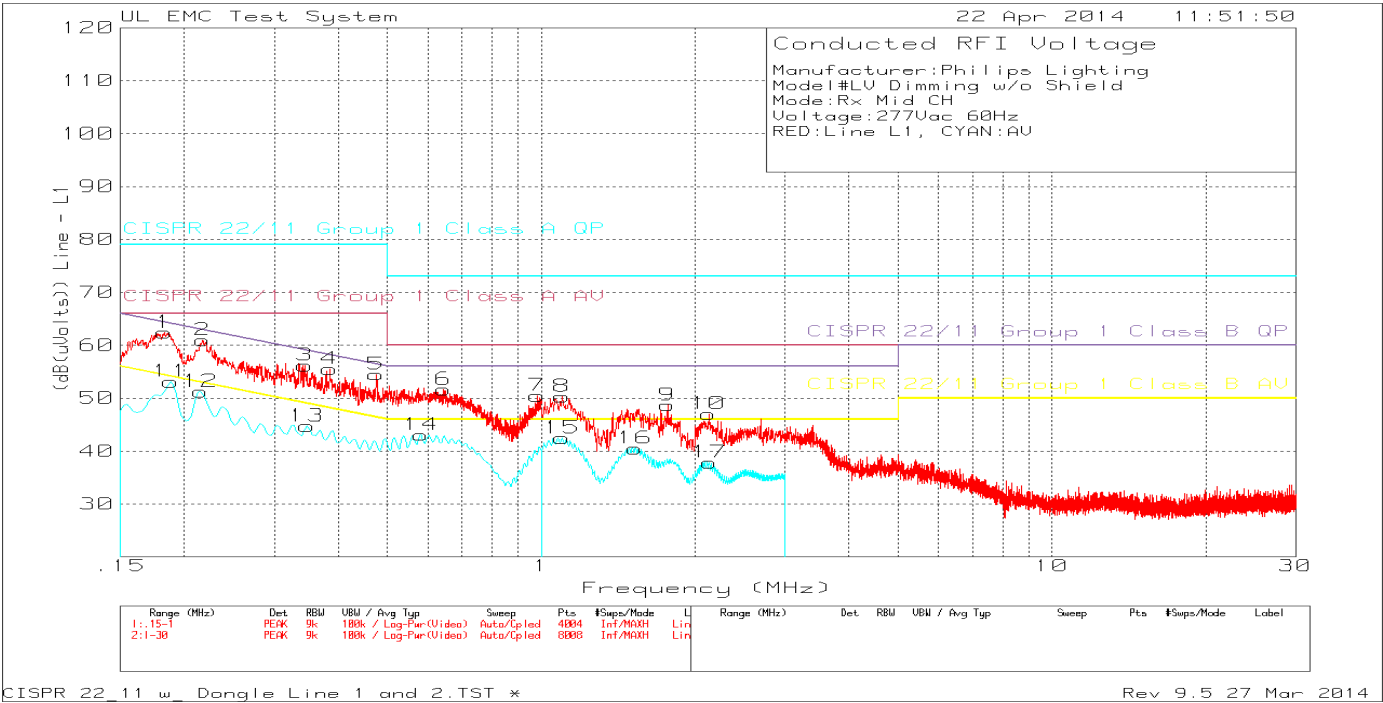
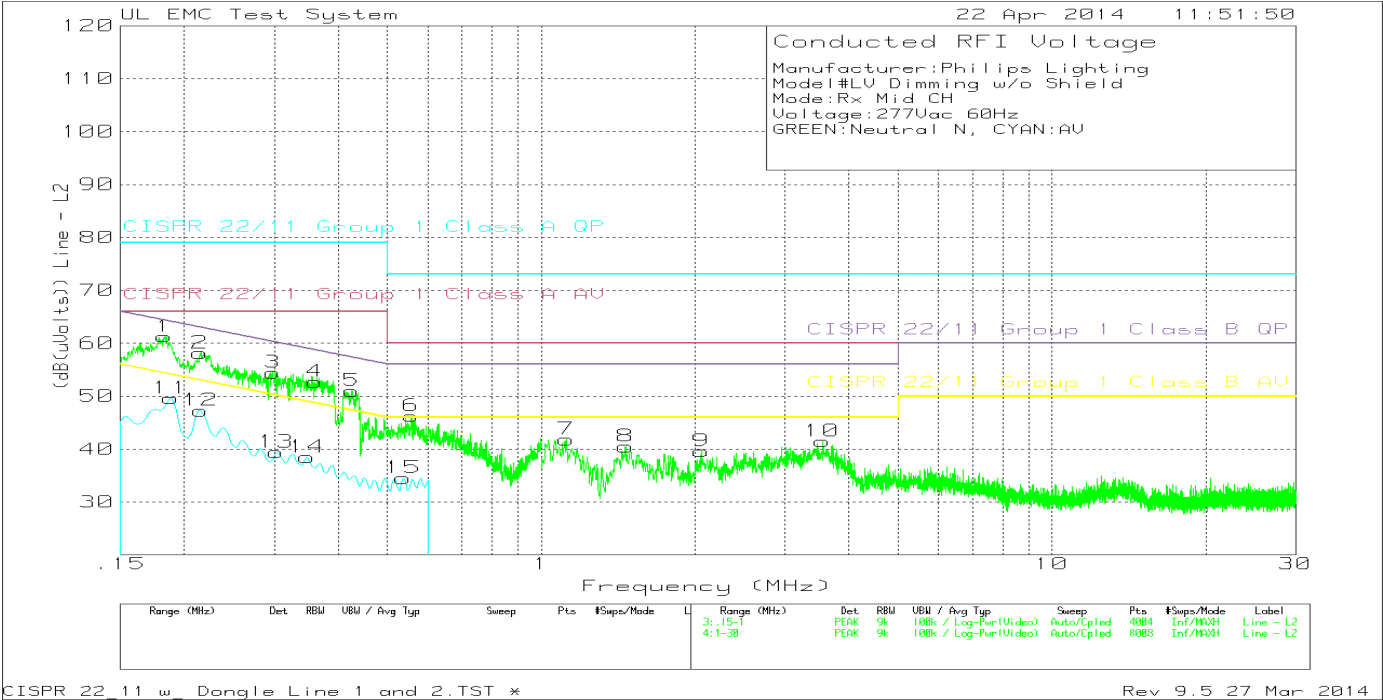
No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.18907	48.82dBuV PK	.1	11.6	60.52	79	66	64.08	54.08	-	-
					Margin (dB)	-18.48	-5.48	-3.56	6.44	-	-
2	.32646	39.81dBuV PK	.1	10.8	50.71	79	66	59.54	49.54	-	-
					Margin (dB)	-28.29	-15.29	-8.83	1.17	-	-
3	.39483	38.9dBuV PK	.1	10.8	49.8	79	66	57.96	47.96	-	-
					Margin (dB)	-29.2	-16.2	-8.16	1.84	-	-
4	.45981	35.02dBuV PK	.1	10.7	45.82	79	66	56.7	46.7	-	-
					Margin (dB)	-33.18	-20.18	-10.88	-.88	-	-
5	.67406	32.26dBuV PK	.1	10.6	42.96	73	60	56	46	-	-
					Margin (dB)	-30.04	-17.04	-13.04	-3.04	-	-
6	.91167	31.52dBuV PK	.1	10.6	42.22	73	60	56	46	-	-
					Margin (dB)	-30.78	-17.78	-13.78	-3.78	-	-
9	.17461	32.19dBuV Av	.1	12.6	44.89	79	66	64.74	54.74	-	-
					Margin (dB)	-34.11	-21.11	-19.85	-9.85	-	-
10	.37261	22.88dBuV Av	.1	10.8	33.78	79	66	58.44	48.44	-	-
					Margin (dB)	-45.22	-32.22	-24.66	-14.66	-	-
11	.45811	21.17dBuV Av	.1	10.7	31.97	79	66	56.73	46.73	-	-
					Margin (dB)	-47.03	-34.03	-24.76	-14.76	-	-
7	1.62296	29.14dBuV PK	.1	10.6	39.84	73	60	56	46	-	-
					Margin (dB)	-33.16	-20.16	-16.16	-6.16	-	-
8	3.53166	28.76dBuV PK	.1	10.7	39.56	73	60	56	46	-	-
					Margin (dB)	-33.44	-20.44	-16.44	-6.44	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

4.1.4 Low Voltage, Dimming, (277V/60Hz)

Figure 8 Conducted Emissions Graph – Radio RX Mode



Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 9 Conducted Emissions Data Points – Radio RX mode

Manufacturer: Philips Lighting
 Model# LV Dimming w/o Shield
 Mode: Rx Mid CH
 Voltage: 277Vac 60Hz
 RED: Line L1, CYAN: AV

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.18291	50.4dBuV PK	.1	11.9	62.4	79	66	64.35	54.35	-	-
					Margin (dB)	-16.6	-3.6	-1.95	8.05	-	-
2	.21731	49.47dBuV PK	.1	11.4	60.97	79	66	62.92	52.92	-	-
					Margin (dB)	-18.03	-5.03	-1.95	8.05	-	-
3	.34429	45.28dBuV PK	.1	10.8	56.18	79	66	59.1	49.1	-	-
					Margin (dB)	-22.82	-9.82	-2.92	7.08	-	-
4	.38549	44.6dBuV PK	.1	10.8	55.5	79	66	58.16	48.16	-	-
					Margin (dB)	-23.5	-10.5	-2.66	7.34	-	-
5	.47573	43.69dBuV PK	.1	10.7	54.49	79	66	56.41	46.41	-	-
					Margin (dB)	-24.51	-11.51	-1.92	8.08	-	-
6	.64412	41.02dBuV PK	0	10.6	51.62	73	60	56	46	-	-
					Margin (dB)	-21.38	-8.38	-4.38	5.62	-	-
7	.98238	39.79dBuV PK	.1	10.6	50.49	73	60	56	46	-	-
					Margin (dB)	-22.51	-9.51	-5.51	4.49	-	-
11	.18825	41.41dBuV Av	.1	11.6	53.11	79	66	64.11	54.11	-	-
					Margin (dB)	-25.89	-12.89	-11	-1	-	-
12	.21525	39.72dBuV Av	.1	11.4	51.22	79	66	63	53	-	-
					Margin (dB)	-27.78	-14.78	-11.78	-1.78	-	-
13	.348	33.83dBuV Av	.1	10.8	44.73	79	66	59.01	49.01	-	-
					Margin (dB)	-34.27	-21.27	-14.28	-4.28	-	-
14	.582	32.36dBuV Av	.1	10.6	43.06	73	60	56	46	-	-
					Margin (dB)	-29.94	-16.94	-12.94	-2.94	-	-
8	1.09779	39.58dBuV PK	.1	10.6	50.28	73	60	56	46	-	-
					Margin (dB)	-22.72	-9.72	-5.72	4.28	-	-
9	1.76783	37.98dBuV PK	.1	10.6	48.68	73	60	56	46	-	-
					Margin (dB)	-24.32	-11.32	-7.32	2.68	-	-
10	2.12639	36.32dBuV PK	.1	10.6	47.02	73	60	56	46	-	-
					Margin (dB)	-25.98	-12.98	-8.98	1.02	-	-
15	1.099	31.77dBuV Av	.1	10.6	42.47	73	60	56	46	-	-
					Margin (dB)	-30.53	-17.53	-13.53	-3.53	-	-
16	1.5265	29.8dBuV Av	.1	10.6	40.5	73	60	56	46	-	-
					Margin (dB)	-32.5	-19.5	-15.5	-5.5	-	-
17	2.134	27.17dBuV Av	.1	10.6	37.87	73	60	56	46	-	-
					Margin (dB)	-35.13	-22.13	-18.13	-8.13	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

Av - CISPR average detection

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model# LV Dimming w/o Shield
 Mode: Rx Mid CH
 Voltage: 277Vac 60Hz
 GREEN: Neutral N, CYAN: AV

Trace Markers for Neutral

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.18291	49.17dBuV PK	.1	12	61.27	79	66	64.35	54.35	-	-
					Margin (dB)	-17.73	-4.73	-3.08	6.92	-	-
2	.21498	46.54dBuV PK	.1	11.5	58.14	79	66	63.01	53.01	-	-
					Margin (dB)	-20.86	-7.86	-4.87	5.13	-	-
3	.29821	43.45dBuV PK	.1	10.9	54.45	79	66	60.29	50.29	-	-
					Margin (dB)	-24.55	-11.55	-5.84	4.16	-	-
4	.36064	41.82dBuV PK	.1	10.8	52.72	79	66	58.71	48.71	-	-
					Margin (dB)	-26.28	-13.28	-5.99	4.01	-	-
5	.42604	40.22dBuV PK	.1	10.7	51.02	79	66	57.33	47.33	-	-
					Margin (dB)	-27.98	-14.98	-6.31	3.69	-	-
6	.55685	35.58dBuV PK	.1	10.6	46.28	73	60	56	46	-	-
					Margin (dB)	-26.72	-13.72	-9.72	.28	-	-
11	.18825	37.91dBuV Av	.1	11.6	49.61	79	66	64.11	54.11	-	-
					Margin (dB)	-29.39	-16.39	-14.5	-4.5	-	-
12	.21525	35.66dBuV Av	.1	11.5	47.26	79	66	63	53	-	-
					Margin (dB)	-31.74	-18.74	-15.74	-5.74	-	-
13	.303	28.41dBuV Av	.1	10.9	39.41	79	66	60.16	50.16	-	-
					Margin (dB)	-39.59	-26.59	-20.75	-10.75	-	-
14	.348	27.57dBuV Av	.1	10.8	38.47	79	66	59.01	49.01	-	-
					Margin (dB)	-40.53	-27.53	-20.54	-10.54	-	-
15	.537	23.81dBuV Av	.1	10.6	34.51	73	60	56	46	-	-
					Margin (dB)	-38.49	-25.49	-21.49	-11.49	-	-
7	1.11952	31.12dBuV PK	.1	10.6	41.82	73	60	56	46	-	-
					Margin (dB)	-31.18	-18.18	-14.18	-4.18	-	-
8	1.46359	29.79dBuV PK	.1	10.6	40.49	73	60	56	46	-	-
					Margin (dB)	-32.51	-19.51	-15.51	-5.51	-	-
9	2.05758	28.9dBuV PK	.1	10.6	39.6	73	60	56	46	-	-
					Margin (dB)	-33.4	-20.4	-16.4	-6.4	-	-
10	3.55339	30.68dBuV PK	.1	10.7	41.48	73	60	56	46	-	-
					Margin (dB)	-31.52	-18.52	-14.52	-4.52	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP

LIMIT 2: CISPR 22/11 Group 1 Class A AV

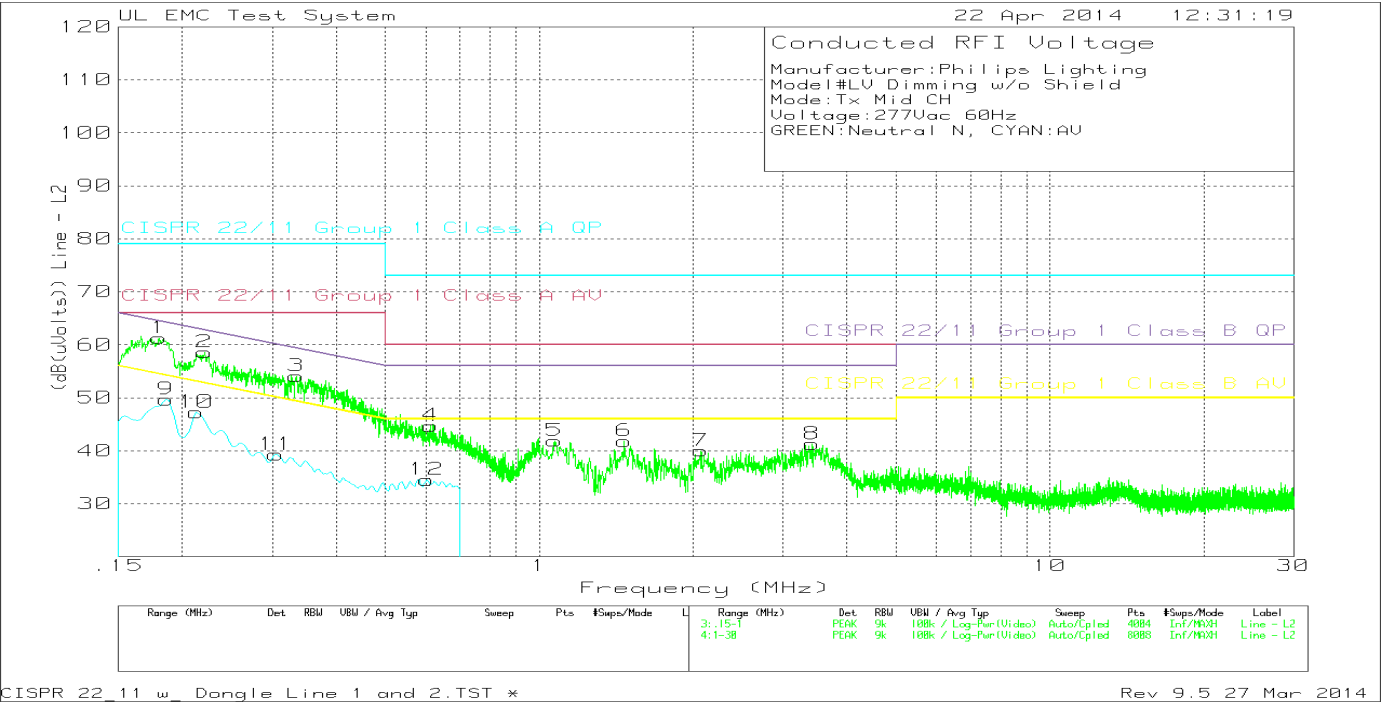
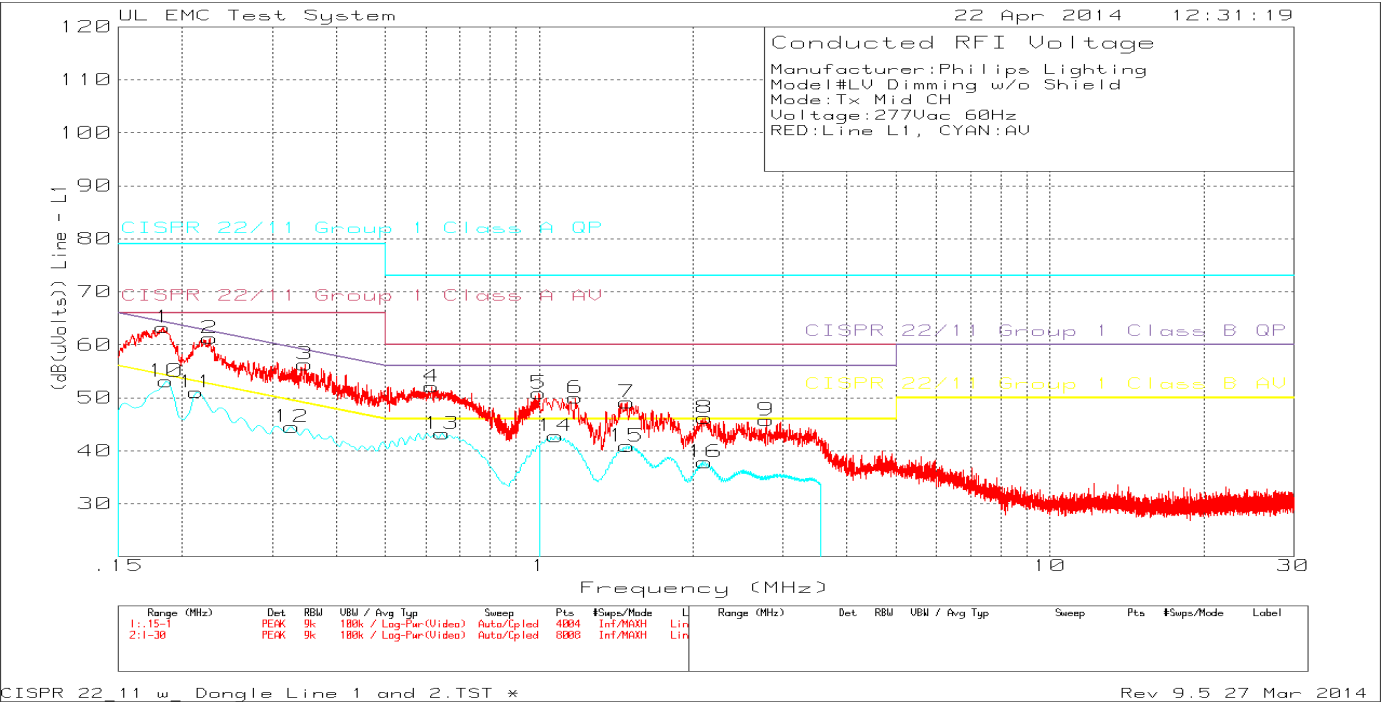
LIMIT 3: CISPR 22/11 Group 1 Class B QP

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

PK - Peak detector

Av - CISPR average detection

Figure 9 Conducted Emissions Graph – Radio TX Mode



Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 10 Conducted Emissions Data Points – Radio TX Mode

Manufacturer: Philips Lighting
 Model# LV Dimming w/o Shield
 Mode: Tx Mid CH
 Voltage: 277Vac 60Hz
 RED: Line L1, CYAN: AV

Trace Markers for Line

No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB (uVolts))	Limit: 1	2	3	4	5	6
1	.18334	51.29dBuV PK	.1	11.9	63.29	79	66	64.33	54.33	-	-
					Margin (dB)	-15.71	-2.71	-1.04	8.96	-	-
2	.22644	49.76dBuV PK	.1	11.4	61.26	79	66	62.58	52.58	-	-
					Margin (dB)	-17.74	-4.74	-1.32	8.68	-	-
3	.34811	45.42dBuV PK	.1	10.8	56.32	79	66	59.01	49.01	-	-
					Margin (dB)	-22.68	-9.68	-2.69	7.31	-	-
4	.61609	41.4dBuV PK	.1	10.6	52.1	73	60	56	46	-	-
					Margin (dB)	-20.9	-7.9	-3.9	6.1	-	-
5	.99894	40.13dBuV PK	.1	10.6	50.83	73	60	56	46	-	-
					Margin (dB)	-22.17	-9.17	-5.17	4.83	-	-
10	.186	41.28dBuV Av	.1	11.7	53.08	79	66	64.21	54.21	-	-
					Margin (dB)	-25.92	-12.92	-11.13	-1.13	-	-
11	.213	39.45dBuV Av	.1	11.5	51.05	79	66	63.09	53.09	-	-
					Margin (dB)	-27.95	-14.95	-12.04	-2.04	-	-
12	.32775	33.6dBuV Av	.1	10.8	44.5	79	66	59.51	49.51	-	-
					Margin (dB)	-34.5	-21.5	-15.01	-5.01	-	-
13	.645	32.53dBuV Av	.1	10.6	43.23	73	60	56	46	-	-
					Margin (dB)	-29.77	-16.77	-12.77	-2.77	-	-
6	1.17747	39.28dBuV PK	.1	10.6	49.98	73	60	56	46	-	-
					Margin (dB)	-23.02	-10.02	-6.02	3.98	-	-
7	1.48533	38.45dBuV PK	.1	10.6	49.15	73	60	56	46	-	-
					Margin (dB)	-23.85	-10.85	-6.85	3.15	-	-
8	2.1119	35.5dBuV PK	.1	10.6	46.2	73	60	56	46	-	-
					Margin (dB)	-26.8	-13.8	-9.8	.2	-	-
9	2.78375	35.06dBuV PK	.1	10.6	45.76	73	60	56	46	-	-
					Margin (dB)	-27.24	-14.24	-10.24	-.24	-	-
14	1.0765	32.08dBuV Av	.1	10.6	42.78	73	60	56	46	-	-
					Margin (dB)	-30.22	-17.22	-13.22	-3.22	-	-
15	1.486	30.17dBuV Av	.1	10.6	40.87	73	60	56	46	-	-
					Margin (dB)	-32.13	-19.13	-15.13	-5.13	-	-
16	2.1115	27.16dBuV Av	.1	10.6	37.86	73	60	56	46	-	-
					Margin (dB)	-35.14	-22.14	-18.14	-8.14	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model# LV Dimming w/o Shield
 Mode: Tx Mid CH
 Voltage: 277Vac 60Hz
 GREEN: Neutral N, CYAN: AV

Trace Markers for Neutral

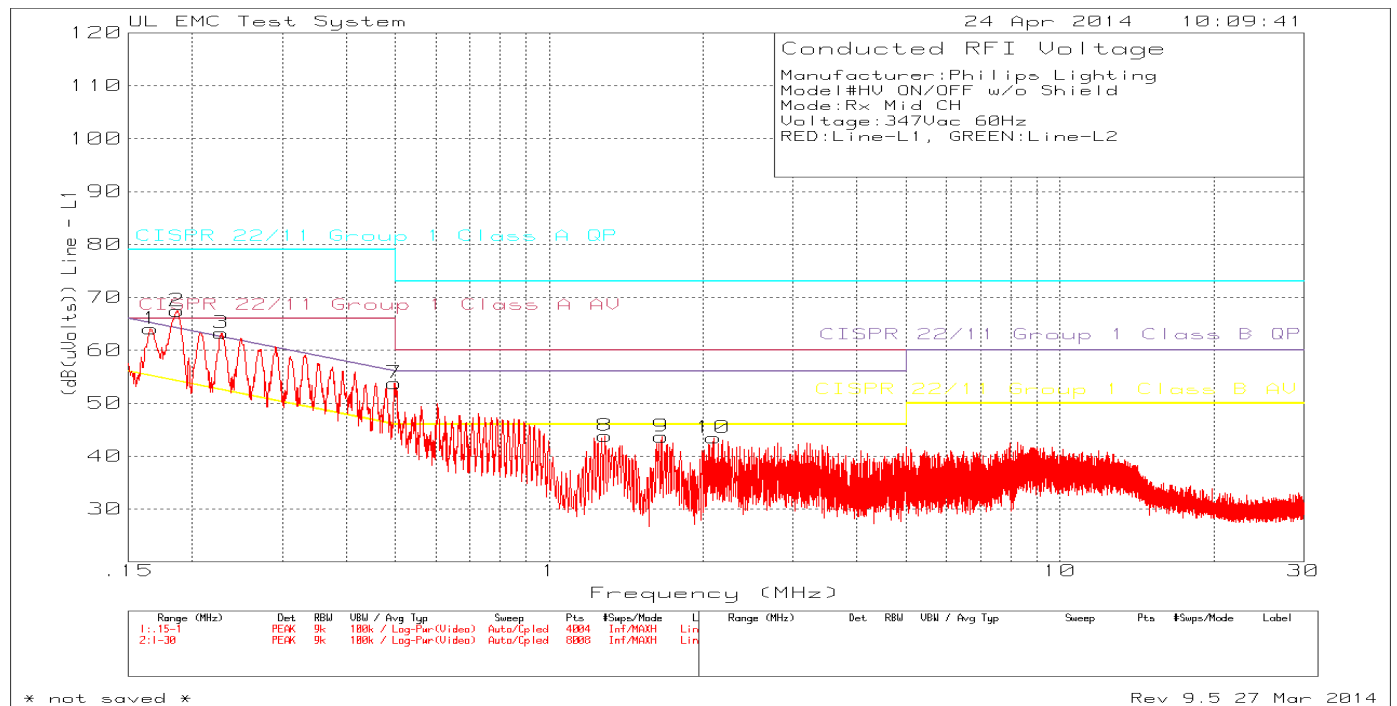
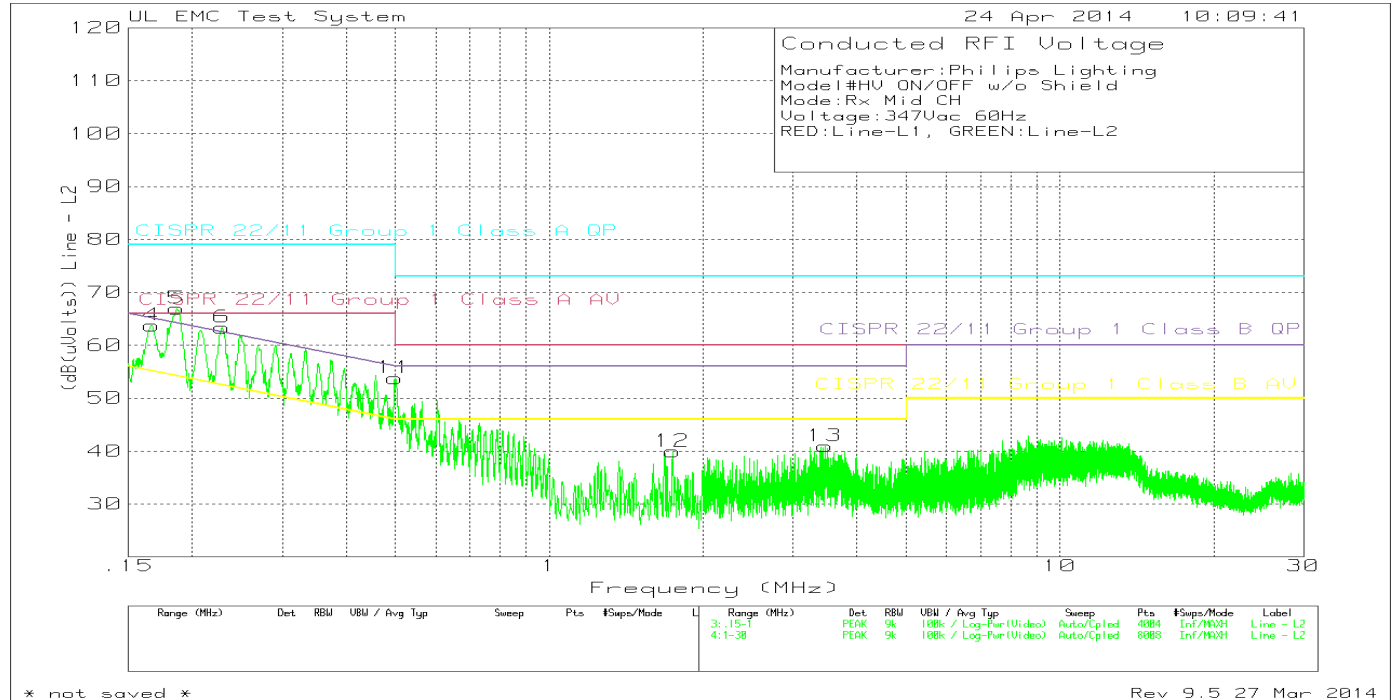
No.	Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
1	.18015	49dBuV PK	.1	12.2	61.3	79	66	64.48	54.48	-	-
					Margin (dB)	-17.7	-4.7	-3.18	6.82	-	-
2	.22113	47.11dBuV PK	.1	11.4	58.61	79	66	62.78	52.78	-	-
					Margin (dB)	-20.39	-7.39	-4.17	5.83	-	-
3	.33431	43.22dBuV PK	.1	10.8	54.12	79	66	59.34	49.34	-	-
					Margin (dB)	-24.88	-11.88	-5.22	4.78	-	-
4	.61312	34dBuV PK	.1	10.6	44.7	73	60	56	46	-	-
					Margin (dB)	-28.3	-15.3	-11.3	-1.3	-	-
9	.186	37.88dBuV Av	.1	11.7	49.68	79	66	64.21	54.21	-	-
					Margin (dB)	-29.32	-16.32	-14.53	-4.53	-	-
10	.213	35.64dBuV Av	.1	11.5	47.24	79	66	63.09	53.09	-	-
					Margin (dB)	-31.76	-18.76	-15.85	-5.85	-	-
11	.30525	28.26dBuV Av	.1	10.9	39.26	79	66	60.1	50.1	-	-
					Margin (dB)	-39.74	-26.74	-20.84	-10.84	-	-
12	.60225	23.84dBuV Av	.1	10.6	34.54	73	60	56	46	-	-
					Margin (dB)	-38.46	-25.46	-21.46	-11.46	-	-
5	1.07244	31.18dBuV PK	.1	10.6	41.88	73	60	56	46	-	-
					Margin (dB)	-31.12	-18.12	-14.12	-4.12	-	-
6	1.46722	31.13dBuV PK	.1	10.6	41.83	73	60	56	46	-	-
					Margin (dB)	-31.17	-18.17	-14.17	-4.17	-	-
7	2.07206	29.33dBuV PK	.1	10.6	40.03	73	60	56	46	-	-
					Margin (dB)	-32.97	-19.97	-15.97	-5.97	-	-
8	3.42301	30.46dBuV PK	.1	10.7	41.26	73	60	56	46	-	-
					Margin (dB)	-31.74	-18.74	-14.74	-4.74	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector
 Av - CISPR average detection

4.1.5 High Voltage, On/Off (347V/60Hz)

Figure 10 Conducted Emissions Graph – Radio RX Mode



Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 11 Conducted Emissions Data Points – Radio RX mode

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode:Rx Mid CH
 Voltage:347Vac 60Hz
 RED:Line-L1, GREEN:Line-L2

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 - L1											
1	.16593	50.66dBuV PK	.1	13.3	64.06	79	66	65.16	55.16	-	-
					Margin (dB)	-14.94	-1.94	-1.1	8.9	-	-
2	.18695	55.85dBuV PK	0	11.6	67.45	79	66	64.17	54.17	-	-
					Margin (dB)	-11.55	1.45	3.28	13.28	-	-
3	.22804	51.86dBuV PK	0	11.4	63.26	79	66	62.52	52.52	-	-
					Margin (dB)	-15.74	-2.74	.74	10.74	-	-
7	.49803	43.09dBuV PK	0	10.7	53.79	79	66	56.03	46.03	-	-
					Margin (dB)	-25.21	-12.21	-2.24	7.76	-	-
8	1.28613	33.23dBuV PK	0	10.6	43.83	73	60	56	46	-	-
					Margin (dB)	-29.17	-16.17	-12.17	-2.17	-	-
9	1.65917	33.08dBuV PK	0	10.6	43.68	73	60	56	46	-	-
					Margin (dB)	-29.32	-16.32	-12.32	-2.32	-	-
10	2.09742	32.87dBuV PK	0	10.6	43.47	73	60	56	46	-	-
					Margin (dB)	-29.53	-16.53	-12.53	-2.53	-	-
Line - L2											
4	.16656	50.34dBuV PK	.1	13.3	63.74	79	66	65.13	55.13	-	-
					Margin (dB)	-15.26	-2.26	-1.39	8.61	-	-
5	.18642	55.16dBuV PK	.1	11.7	66.96	79	66	64.19	54.19	-	-
					Margin (dB)	-12.04	.96	2.77	12.77	-	-
6	.22857	51.88dBuV PK	.1	11.4	63.38	79	66	62.5	52.5	-	-
					Margin (dB)	-15.62	-2.62	.88	10.88	-	-
11	.49824	42.97dBuV PK	.1	10.7	53.77	79	66	56.03	46.03	-	-
					Margin (dB)	-25.23	-12.23	-2.26	7.74	-	-
12	1.74248	29.24dBuV PK	.1	10.6	39.94	73	60	56	46	-	-
					Margin (dB)	-33.06	-20.06	-16.06	-6.06	-	-
13	3.46647	30.17dBuV PK	.1	10.7	40.97	73	60	56	46	-	-
					Margin (dB)	-32.03	-19.03	-15.03	-5.03	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode:Rx Mid CH
 Voltage:347Vac 60Hz
 RED:Line-L1, GREEN:Line-L2

Quais-peak Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.16652	49.58dBuV QP	.1	13.3	62.98	79	66	65.13	55.13	-	-
				Margin (dB):	-16.02	-3.02	-2.15	7.85	-	-
.18595	54.95dBuV QP	0	11.7	66.65	79	66	64.22	54.22	-	-
				Margin (dB):	-12.35	.65	2.43	12.43	-	-
.22852	50.21dBuV QP	0	11.4	61.61	79	66	62.5	52.5	-	-
				Margin (dB):	-17.39	-4.39	-.89	9.11	-	-
Line - L2										
.16653	49.2dBuV QP	.1	13.3	62.6	79	66	65.13	55.13	-	-
				Margin (dB):	-16.4	-3.4	-2.53	7.47	-	-
.18549	54.26dBuV QP	.1	11.8	66.16	79	66	64.24	54.24	-	-
				Margin (dB):	-12.84	.16	1.92	11.92	-	-
.22813	49.6dBuV QP	.1	11.4	61.1	79	66	62.52	52.52	-	-
				Margin (dB):	-17.9	-4.9	-1.42	8.58	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

QP - Quasi-Peak detector

Average Data

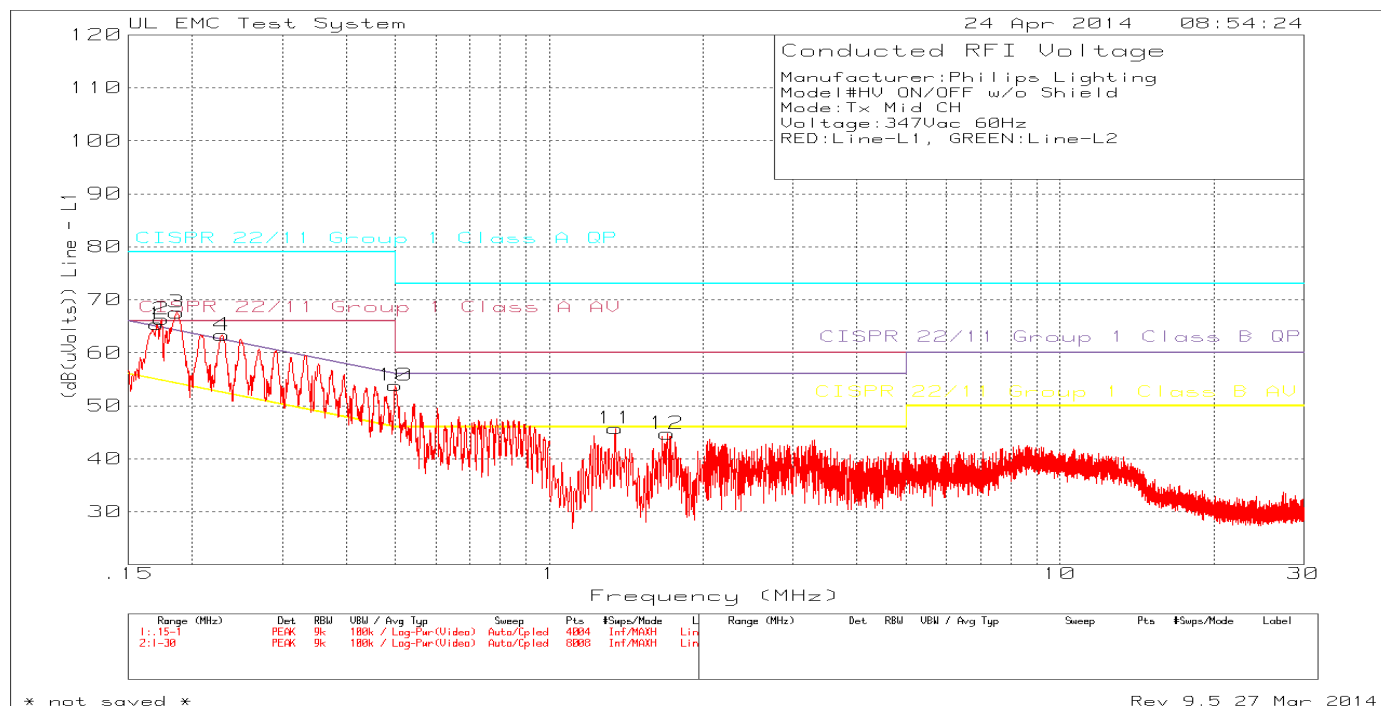
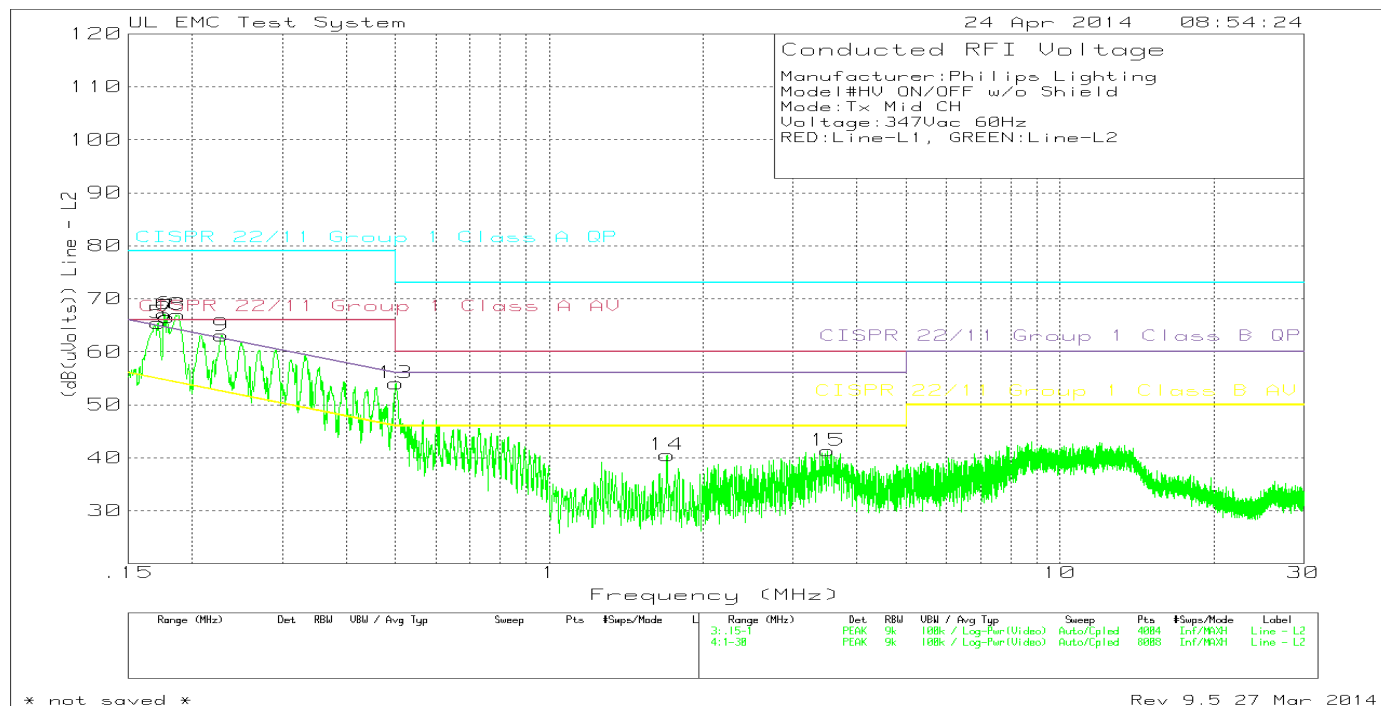
Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.16652	36.78dBuV Av	.1	13.3	50.18	79	66	65.13	55.13	-	-
				Margin (dB):	-28.82	-15.82	-14.95	-4.95	-	-
.18595	44.71dBuV Av	0	11.7	56.41	79	66	64.22	54.22	-	-
				Margin (dB):	-22.59	-9.59	-7.81	2.19	-	-
.22852	37.32dBuV Av	0	11.4	48.72	79	66	62.5	52.5	-	-
				Margin (dB):	-30.28	-17.28	-13.78	-3.78	-	-
Line - L2										
.16653	36.17dBuV Av	.1	13.3	49.57	79	66	65.13	55.13	-	-
				Margin (dB):	-29.43	-16.43	-15.56	-5.56	-	-
.18549	43.92dBuV Av	.1	11.8	55.82	79	66	64.24	54.24	-	-
				Margin (dB):	-23.18	-10.18	-8.42	1.58	-	-
.22813	36.2dBuV Av	.1	11.4	47.7	79	66	62.52	52.52	-	-
				Margin (dB):	-31.3	-18.3	-14.82	-4.82	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

Av - CISPR average detection

Figure 11 Conducted Emissions Graph – Radio TX Mode



Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 12 Conducted Emissions Data Points – Radio TX Mode

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode:Tx Mid CH
 Voltage:347Vac 60Hz
 RED:Line-L1, GREEN:Line-L2

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 - L1											
1	.17039	52.32dBuV PK	.1	13	65.42	79	66	64.94	54.94	-	-
					Margin (dB)	-13.58	-.58	.48	10.48	-	-
2	.17421	53.62dBuV PK	.1	12.6	66.32	79	66	64.76	54.76	-	-
					Margin (dB)	-12.68	.32	1.56	11.56	-	-
3	.18652	56.03dBuV PK	0	11.6	67.63	79	66	64.19	54.19	-	-
					Margin (dB)	-11.37	1.63	3.44	13.44	-	-
4	.22888	51.91dBuV PK	0	11.4	63.31	79	66	62.49	52.49	-	-
					Margin (dB)	-15.69	-2.69	.82	10.82	-	-
10	.49951	43.13dBuV PK	0	10.7	53.83	79	66	56.01	46.01	-	-
					Margin (dB)	-25.17	-12.17	-2.18	7.82	-	-
11	1.3477	35.12dBuV PK	0	10.6	45.72	73	60	56	46	-	-
					Margin (dB)	-27.28	-14.28	-10.28	-.28	-	-
12	1.70264	34.11dBuV PK	0	10.6	44.71	73	60	56	46	-	-
					Margin (dB)	-28.29	-15.29	-11.29	-1.29	-	-
Line - L2											
5	.17145	52.46dBuV PK	.1	12.9	65.46	79	66	64.89	54.89	-	-
					Margin (dB)	-13.54	-.54	.57	10.57	-	-
6	.17633	54.53dBuV PK	.1	12.5	67.13	79	66	64.66	54.66	-	-
					Margin (dB)	-11.87	1.13	2.47	12.47	-	-
7	.17845	54.11dBuV PK	.1	12.3	66.51	79	66	64.56	54.56	-	-
					Margin (dB)	-12.49	.51	1.95	11.95	-	-
8	.18758	55.28dBuV PK	.1	11.6	66.98	79	66	64.14	54.14	-	-
					Margin (dB)	-12.02	.98	2.84	12.84	-	-
9	.22825	51.56dBuV PK	.1	11.4	63.06	79	66	62.51	52.51	-	-
					Margin (dB)	-15.94	-2.94	.55	10.55	-	-
13	.50068	43.25dBuV PK	.1	10.7	54.05	73	60	56	46	-	-
					Margin (dB)	-18.95	-5.95	-1.95	8.05	-	-
14	1.70264	29.79dBuV PK	.1	10.6	40.49	73	60	56	46	-	-
					Margin (dB)	-32.51	-19.51	-15.51	-5.51	-	-
15	3.50993	30.54dBuV PK	.1	10.7	41.34	73	60	56	46	-	-
					Margin (dB)	-31.66	-18.66	-14.66	-4.66	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode:Tx Mid CH
 Voltage:347Vac 60Hz
 RED:Line-L1, GREEN:Line-L2

Quais-peak Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.16957	47.99dBuV QP	.1	13	61.09	79	66	64.98	54.98	-	-
				Margin (dB):	-17.91	-4.91	-3.89	6.11	-	-
.17372	44.07dBuV QP	.1	12.7	56.87	79	66	64.78	54.78	-	-
				Margin (dB):	-22.13	-9.13	-7.91	2.09	-	-
.1857	54.85dBuV QP	0	11.7	66.55	79	66	64.23	54.23	-	-
				Margin (dB):	-12.45	.55	2.32	12.32	-	-
.2284	50.52dBuV QP	0	11.4	61.92	79	66	62.51	52.51	-	-
				Margin (dB):	-17.08	-4.08	-1.59	9.41	-	-
Line - L2										
.17071	46.47dBuV QP	.1	12.9	59.47	79	66	64.93	54.93	-	-
				Margin (dB):	-19.53	-6.53	-5.46	4.54	-	-
.17652	43.4dBuV QP	.1	12.5	56	79	66	64.65	54.65	-	-
				Margin (dB):	-23	-10	-8.65	1.35	-	-
.17941	46.34dBuV QP	.1	12.2	58.64	79	66	64.51	54.51	-	-
				Margin (dB):	-20.36	-7.36	-5.87	4.13	-	-
.18665	54.67dBuV QP	.1	11.7	66.47	79	66	64.18	54.18	-	-
				Margin (dB):	-12.53	.47	2.29	12.29	-	-
.22813	49.9dBuV QP	.1	11.4	61.4	79	66	62.52	52.52	-	-
				Margin (dB):	-17.6	-4.6	-1.12	8.88	-	-

QP - Quasi-Peak detector

Average Data

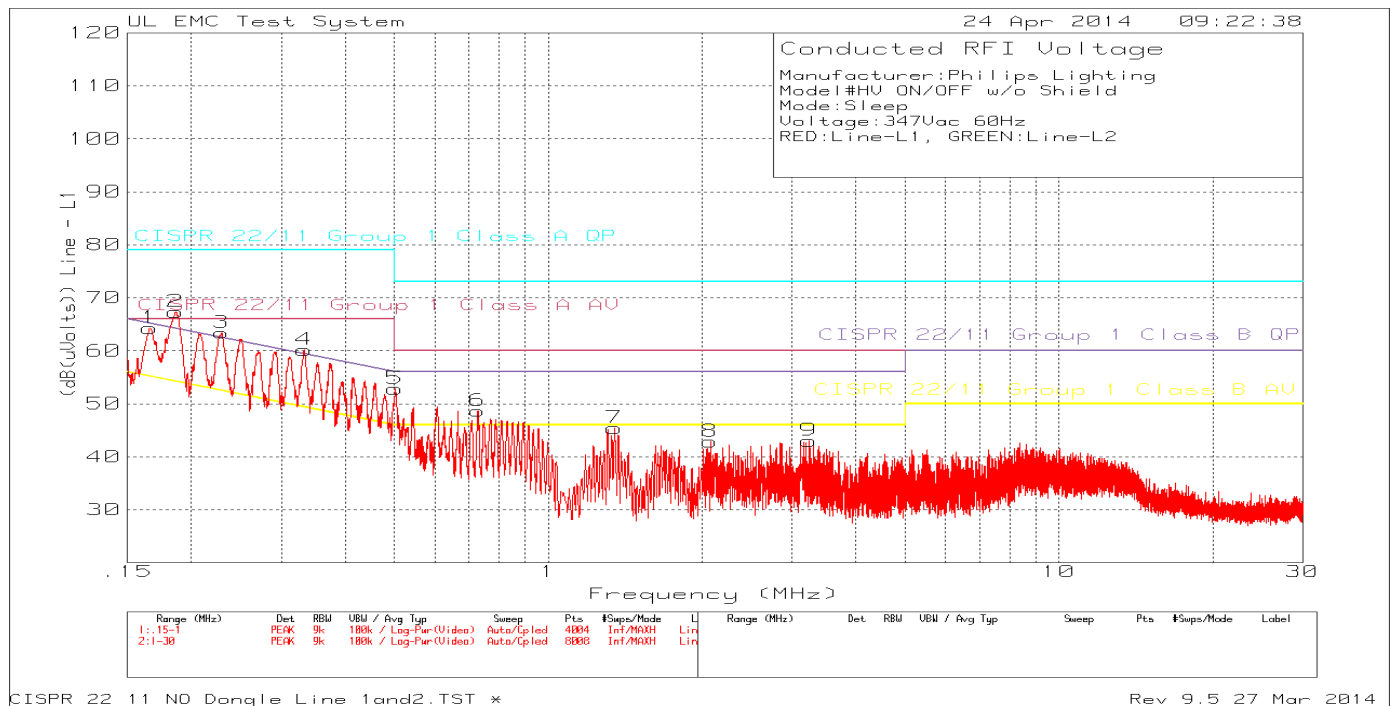
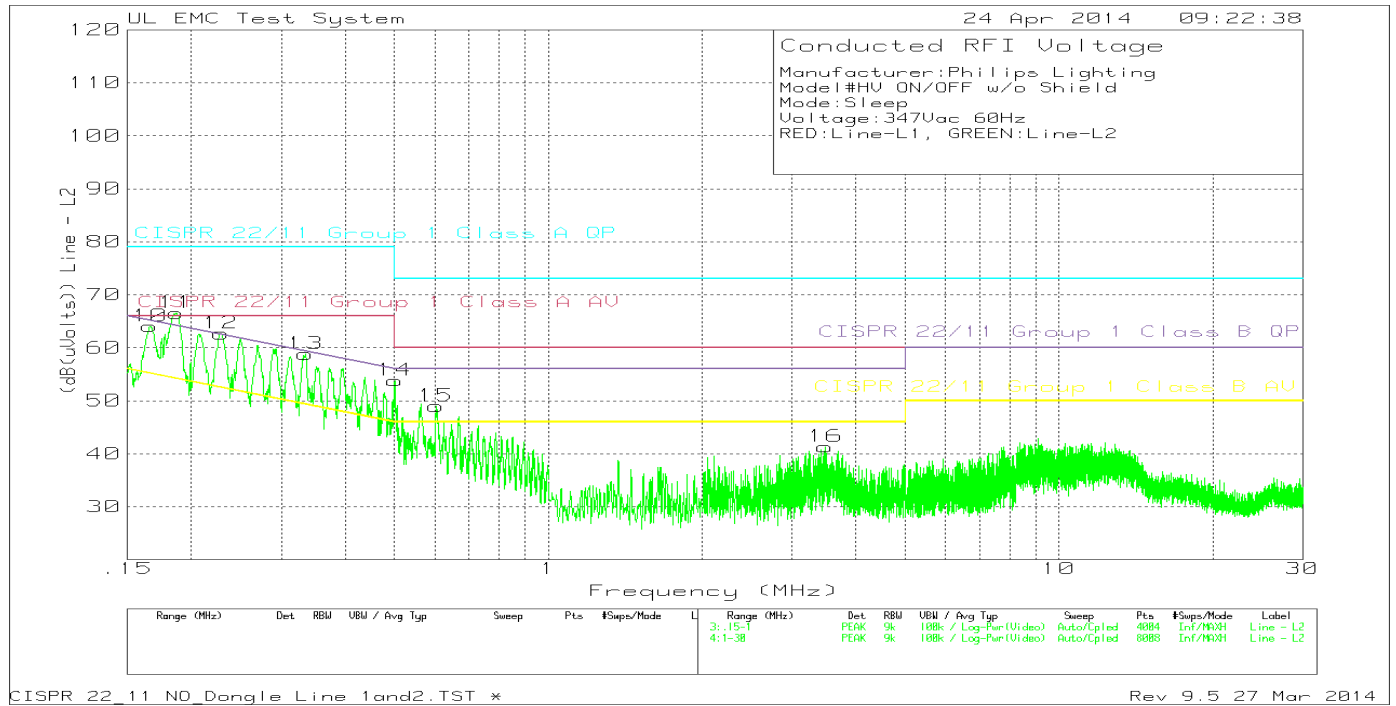
Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.16957	37.85dBuV Av	.1	13	50.95	79	66	64.98	54.98	-	-
				Margin (dB):	-28.05	-15.05	-14.03	-4.03	-	-
.17372	32.7dBuV Av	.1	12.7	45.5	79	66	64.78	54.78	-	-
				Margin (dB):	-33.5	-20.5	-19.28	-9.28	-	-
.1857	45.85dBuV Av	0	11.7	57.55	79	66	64.23	54.23	-	-
				Margin (dB):	-21.45	-8.45	-6.68	3.32	-	-
.2284	39.44dBuV Av	0	11.4	50.84	79	66	62.51	52.51	-	-
				Margin (dB):	-28.16	-15.16	-11.67	-1.67	-	-
Line - L2										
.17071	35.82dBuV Av	.1	12.9	48.82	79	66	64.93	54.93	-	-
				Margin (dB):	-30.18	-17.18	-16.11	-6.11	-	-
.17652	31.77dBuV Av	.1	12.5	44.37	79	66	64.65	54.65	-	-
				Margin (dB):	-34.63	-21.63	-20.28	-10.28	-	-
.17941	36.94dBuV Av	.1	12.2	49.24	79	66	64.51	54.51	-	-
				Margin (dB):	-29.76	-16.76	-15.27	-5.27	-	-
.18665	44.65dBuV Av	.1	11.7	56.45	79	66	64.18	54.18	-	-
				Margin (dB):	-22.55	-9.55	-7.73	2.27	-	-
.22813	38.27dBuV Av	.1	11.4	49.77	79	66	62.52	52.52	-	-
				Margin (dB):	-29.23	-16.23	-12.75	-2.75	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

Av - CISPR average detection

Figure 12 Conducted Emissions Graph – Radio Sleep Mode



Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 13 Conducted Emissions Data Points – Radio Sleep Mode

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode: Sleep
 Voltage: 347Vac 60Hz
 RED: Line-L1, GREEN: Line-L2

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 - L1											
1	.16593	50.88dBuV PK	.1	13.3	64.28	79	66	65.16	55.16	-	-
					Margin (dB)	-14.72	-1.72	-1.88	9.12	-	-
2	.18652	55.77dBuV PK	0	11.6	67.37	79	66	64.19	54.19	-	-
					Margin (dB)	-11.63	1.37	3.18	13.18	-	-
3	.22942	52.01dBuV PK	0	11.4	63.41	79	66	62.47	52.47	-	-
					Margin (dB)	-15.59	-2.59	.94	10.94	-	-
4	.33283	49.37dBuV PK	0	10.8	60.17	79	66	59.38	49.38	-	-
					Margin (dB)	-18.83	-5.83	.79	10.79	-	-
5	.50142	42.23dBuV PK	0	10.6	52.83	73	60	56	46	-	-
					Margin (dB)	-20.17	-7.17	-3.17	6.83	-	-
6	.7282	38.07dBuV PK	0	10.6	48.67	73	60	56	46	-	-
					Margin (dB)	-24.33	-11.33	-7.33	2.67	-	-
7	1.3477	34.81dBuV PK	0	10.6	45.41	73	60	56	46	-	-
					Margin (dB)	-27.59	-14.59	-10.59	-.59	-	-
8	2.07568	32.25dBuV PK	0	10.6	42.85	73	60	56	46	-	-
					Margin (dB)	-30.15	-17.15	-13.15	-3.15	-	-
9	3.23829	32.41dBuV PK	0	10.6	43.01	73	60	56	46	-	-
					Margin (dB)	-29.99	-16.99	-12.99	-2.99	-	-
Line - L2											
10	.16603	50.66dBuV PK	.1	13.3	64.06	79	66	65.16	55.16	-	-
					Margin (dB)	-14.94	-1.94	-1.1	8.9	-	-
11	.18684	54.87dBuV PK	.1	11.6	66.57	79	66	64.18	54.18	-	-
					Margin (dB)	-12.43	.57	2.39	12.39	-	-
12	.22857	51.22dBuV PK	.1	11.4	62.72	79	66	62.5	52.5	-	-
					Margin (dB)	-16.28	-3.28	.22	10.22	-	-
13	.33474	47.96dBuV PK	.1	10.8	58.86	79	66	59.33	49.33	-	-
					Margin (dB)	-20.14	-7.14	-.47	9.53	-	-
14	.50079	43.02dBuV PK	.1	10.7	53.82	73	60	56	46	-	-
					Margin (dB)	-19.18	-6.18	-2.18	7.82	-	-
15	.60292	38.28dBuV PK	.1	10.6	48.98	73	60	56	46	-	-
					Margin (dB)	-24.02	-11.02	-7.02	2.98	-	-
16	3.4882	30.53dBuV PK	.1	10.7	41.33	73	60	56	46	-	-
					Margin (dB)	-31.67	-18.67	-14.67	-4.67	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode: Sleep
 Voltage: 347Vac 60Hz
 RED: Line-L1, GREEN: Line-L2

Quais-peak Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.16671	49.27dBuV QP	.1	13.3	62.67	79	66	65.12	55.12	-	-
				Margin (dB):	-16.33	-3.33	-2.45	7.55	-	-
.1857	54.71dBuV QP	0	11.7	66.41	79	66	64.23	54.23	-	-
				Margin (dB):	-12.59	.41	2.18	12.18	-	-
.2285	49.75dBuV QP	0	11.4	61.15	79	66	62.5	52.5	-	-
				Margin (dB):	-17.85	-4.85	-1.35	8.65	-	-
.33237	45.7dBuV QP	0	10.8	56.5	79	66	59.39	49.39	-	-
				Margin (dB):	-22.5	-9.5	-2.89	7.11	-	-
.50084	36.34dBuV QP	0	10.6	46.94	73	60	56	46	-	-
				Margin (dB):	-26.06	-13.06	-9.06	.94	-	-
.72745	33.44dBuV QP	0	10.6	44.04	73	60	56	46	-	-
				Margin (dB):	-28.96	-15.96	-11.96	-1.96	-	-
1.3499	30.79dBuV QP	0	10.6	41.39	73	60	56	46	-	-
				Margin (dB):	-31.61	-18.61	-14.61	-4.61	-	-
2.07612	27.92dBuV QP	0	10.6	38.52	73	60	56	46	-	-
				Margin (dB):	-34.48	-21.48	-17.48	-7.48	-	-
3.23831	26.69dBuV QP	0	10.6	37.29	73	60	56	46	-	-
				Margin (dB):	-35.71	-22.71	-18.71	-8.71	-	-
Line - L2										
.16646	48.82dBuV QP	.1	13.3	62.22	79	66	65.14	55.14	-	-
				Margin (dB):	-16.78	-3.78	-2.92	7.08	-	-
.1859	54.22dBuV QP	.1	11.7	66.02	79	66	64.22	54.22	-	-
				Margin (dB):	-12.98	.02	1.8	11.8	-	-
.22839	49.15dBuV QP	.1	11.4	60.65	79	66	62.51	52.51	-	-
				Margin (dB):	-18.35	-5.35	-1.86	8.14	-	-
.33389	44.49dBuV QP	.1	10.8	55.39	79	66	59.35	49.35	-	-
				Margin (dB):	-23.61	-10.61	-3.96	6.04	-	-
.50013	36.96dBuV QP	.1	10.7	47.76	73	60	56	46	-	-
				Margin (dB):	-25.24	-12.24	-8.24	1.76	-	-
.60365	30.74dBuV QP	.1	10.6	41.44	73	60	56	46	-	-
				Margin (dB):	-31.56	-18.56	-14.56	-4.56	-	-
3.48834	25.34dBuV QP	.1	10.7	36.14	73	60	56	46	-	-
				Margin (dB):	-36.86	-23.86	-19.86	-9.86	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

QP - Quasi-Peak detector

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode: Sleep
 Voltage: 347Vac 60Hz
 RED: Line-L1, GREEN: Line-L2

Average Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.1666	35.31dBuV Av	.1	13.3	48.71	79	66	65.13	55.13	-	-
				Margin (dB):	-30.29	-17.29	-16.42	-6.42	-	-
.18556	43.94dBuV Av	0	11.7	55.64	79	66	64.23	54.23	-	-
				Margin (dB):	-23.36	-10.36	-8.59	1.41	-	-
.22884	35.8dBuV Av	0	11.4	47.2	79	66	62.49	52.49	-	-
				Margin (dB):	-31.8	-18.8	-15.29	-5.29	-	-
.33232	31.89dBuV Av	0	10.8	42.69	79	66	59.39	49.39	-	-
				Margin (dB):	-36.31	-23.31	-16.7	-6.7	-	-
.50066	20.79dBuV Av	0	10.6	31.39	73	60	56	46	-	-
				Margin (dB):	-41.61	-28.61	-24.61	-14.61	-	-
.72772	23.41dBuV Av	0	10.6	34.01	73	60	56	46	-	-
				Margin (dB):	-38.99	-25.99	-21.99	-11.99	-	-
1.34943	21.54dBuV Av	0	10.6	32.14	73	60	56	46	-	-
				Margin (dB):	-40.86	-27.86	-23.86	-13.86	-	-
2.07645	18.08dBuV Av	0	10.6	28.68	73	60	56	46	-	-
				Margin (dB):	-44.32	-31.32	-27.32	-17.32	-	-
3.2389	16.68dBuV Av	0	10.6	27.28	73	60	56	46	-	-
				Margin (dB):	-45.72	-32.72	-28.72	-18.72	-	-
Line - L2										
.16651	34.71dBuV Av	.1	13.3	48.11	79	66	65.13	55.13	-	-
				Margin (dB):	-30.89	-17.89	-17.02	-7.02	-	-
.18589	42.92dBuV Av	.1	11.7	54.72	79	66	64.22	54.22	-	-
				Margin (dB):	-24.28	-11.28	-9.5	.5	-	-
.22831	34.68dBuV Av	.1	11.4	46.18	79	66	62.51	52.51	-	-
				Margin (dB):	-32.82	-19.82	-16.33	-6.33	-	-
.33402	29.32dBuV Av	.1	10.8	40.22	79	66	59.35	49.35	-	-
				Margin (dB):	-38.78	-25.78	-19.13	-9.13	-	-
.50022	18.41dBuV Av	.1	10.7	29.21	73	60	56	46	-	-
				Margin (dB):	-43.79	-30.79	-26.79	-16.79	-	-
.60323	11.24dBuV Av	.1	10.6	21.94	73	60	56	46	-	-
				Margin (dB):	-51.06	-38.06	-34.06	-24.06	-	-
3.48723	16.24dBuV Av	.1	10.7	27.04	73	60	56	46	-	-
				Margin (dB):	-45.96	-32.96	-28.96	-18.96	-	-

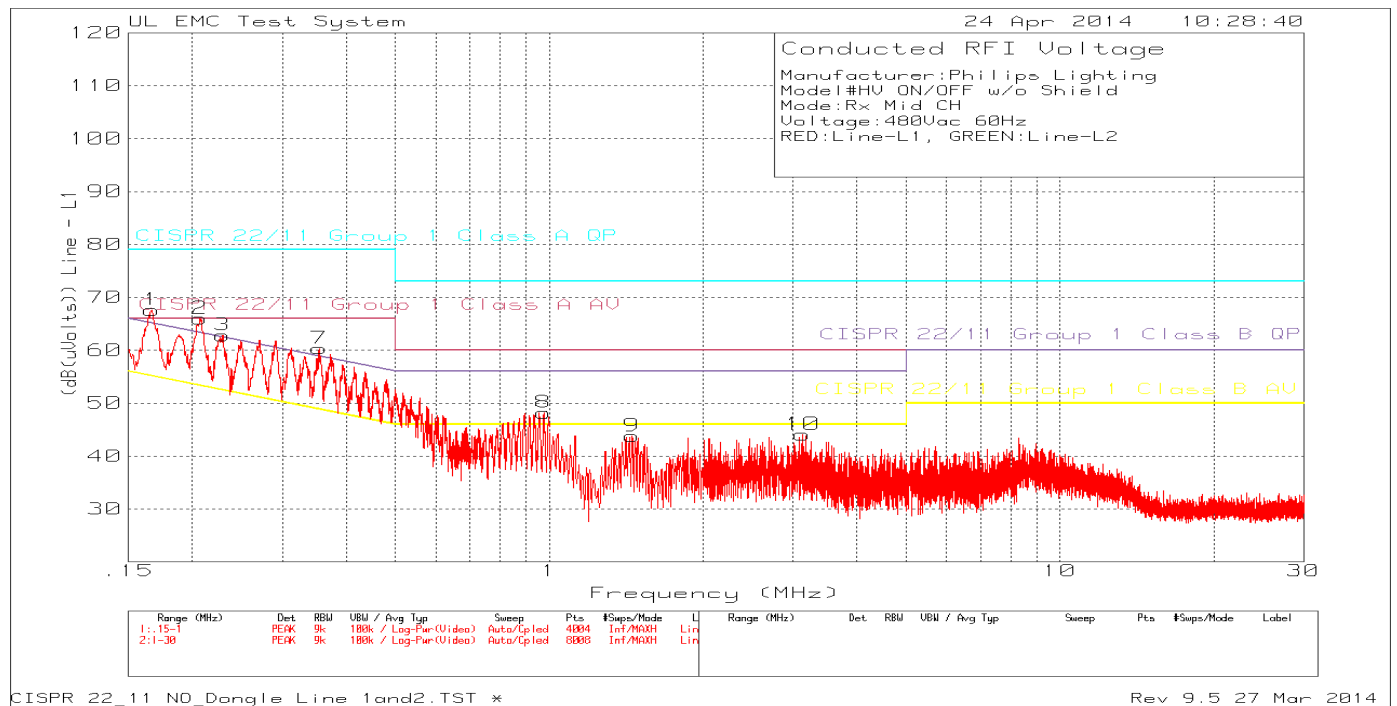
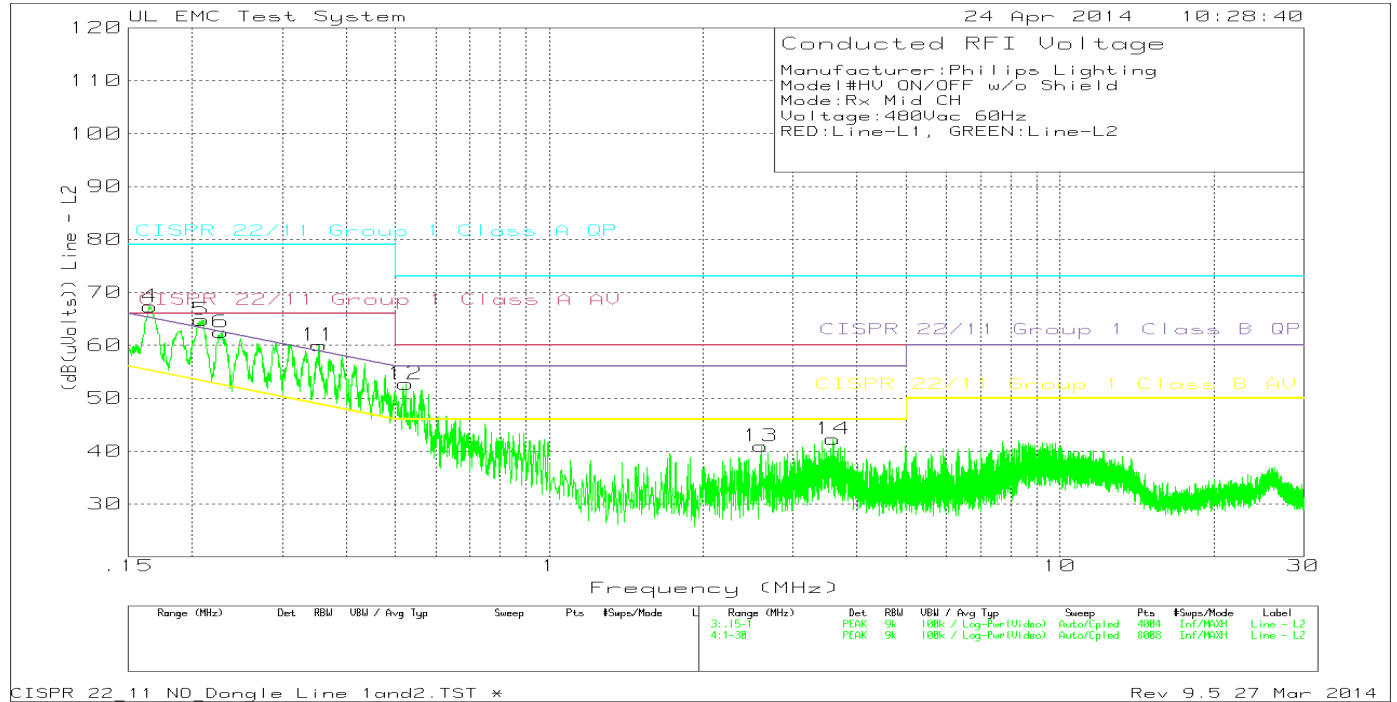
LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

Av - CISPR average detection

4.1.6 High Voltage, On/Off (480V/60Hz)

Figure 13 Conducted Emissions Graph – Radio RX Mode



Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 14 Conducted Emissions Data Points – Radio RX mode

Manufacturer: Philips Lighting
 Model# HV ON/OFF w/o Shield
 Mode: Rx Mid CH
 Voltage: 480Vac 60Hz
 RED: Line-L1, GREEN: Line-L2

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 - L1											
1	.16656	54.22dBuV PK	.1	13.3	67.62	79	66	65.13	55.13	-	-
					Margin (dB)	-11.38	1.62	2.49	12.49	-	-
2	.20712	54.47dBuV PK	0	11.5	65.97	79	66	63.32	53.32	-	-
					Margin (dB)	-13.03	-.03	2.65	12.65	-	-
3	.22942	51.44dBuV PK	0	11.4	62.84	79	66	62.47	52.47	-	-
					Margin (dB)	-16.16	-3.16	.37	10.37	-	-
7	.35427	49.54dBuV PK	0	10.8	60.34	79	66	58.86	48.86	-	-
					Margin (dB)	-18.66	-5.66	1.48	11.48	-	-
8	.97579	37.61dBuV PK	0	10.6	48.21	73	60	56	46	-	-
					Margin (dB)	-24.79	-11.79	-7.79	2.21	-	-
9	1.45273	33.19dBuV PK	0	10.6	43.79	73	60	56	46	-	-
					Margin (dB)	-29.21	-16.21	-12.21	-2.21	-	-
10	3.13326	33.46dBuV PK	0	10.6	44.06	73	60	56	46	-	-
					Margin (dB)	-28.94	-15.94	-11.94	-1.94	-	-
Line - L2											
4	.1655	53.8dBuV PK	.1	13.4	67.3	79	66	65.18	55.18	-	-
					Margin (dB)	-11.7	1.3	2.12	12.12	-	-
5	.20861	53.2dBuV PK	.1	11.5	64.8	79	66	63.26	53.26	-	-
					Margin (dB)	-14.2	-1.2	1.54	11.54	-	-
6	.22793	50.99dBuV PK	.1	11.4	62.49	79	66	62.52	52.52	-	-
					Margin (dB)	-16.51	-3.51	-.03	9.97	-	-
11	.35427	49.08dBuV PK	.1	10.8	59.98	79	66	58.86	48.86	-	-
					Margin (dB)	-19.02	-6.02	1.12	11.12	-	-
12	.52372	41.9dBuV PK	.1	10.7	52.7	73	60	56	46	-	-
					Margin (dB)	-20.3	-7.3	-3.3	6.7	-	-
13	2.59723	30.25dBuV PK	.1	10.6	40.95	73	60	56	46	-	-
					Margin (dB)	-32.05	-19.05	-15.05	-5.05	-	-
14	3.59323	31.46dBuV PK	.1	10.7	42.26	73	60	56	46	-	-
					Margin (dB)	-30.74	-17.74	-13.74	-3.74	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode:Rx Mid CH
 Voltage:480Vac 60Hz
 RED:Line-L1, GREEN:Line-L2

Quais-peak Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.16697	51.41dBuV QP	.1	13.2	64.71	79	66	65.11	55.11	-	-
				Margin (dB):	-14.29	-1.29	-.4	9.6	-	-
.20742	51.05dBuV QP	0	11.5	62.55	79	66	63.31	53.31	-	-
				Margin (dB):	-16.45	-3.45	-.76	9.24	-	-
.22895	48.2dBuV QP	0	11.4	59.6	79	66	62.49	52.49	-	-
				Margin (dB):	-19.4	-6.4	-2.89	7.11	-	-
Line - L2										
.16603	51.08dBuV QP	.1	13.3	64.48	79	66	65.16	55.16	-	-
				Margin (dB):	-14.52	-1.52	-.68	9.32	-	-
.2077	50.55dBuV QP	.1	11.5	62.15	79	66	63.3	53.3	-	-
				Margin (dB):	-16.85	-3.85	-1.15	8.85	-	-
.22817	47.81dBuV QP	.1	11.4	59.31	79	66	62.52	52.52	-	-
				Margin (dB):	-19.69	-6.69	-3.21	6.79	-	-

QP - Quasi-Peak detector

Average Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
=====										
Line - L1										
.16697	36.04dBuV Av	.1	13.2	49.34	79	66	65.11	55.11	-	-
				Margin (dB):	-29.66	-16.66	-15.77	-5.77	-	-
.20742	35.97dBuV Av	0	11.5	47.47	79	66	63.31	53.31	-	-
				Margin (dB):	-31.53	-18.53	-15.84	-5.84	-	-
.22895	33.31dBuV Av	0	11.4	44.71	79	66	62.49	52.49	-	-
				Margin (dB):	-34.29	-21.29	-17.78	-7.78	-	-
Line - L2										
.16603	35.41dBuV Av	.1	13.3	48.81	79	66	65.16	55.16	-	-
				Margin (dB):	-30.19	-17.19	-16.35	-6.35	-	-
.2077	35.04dBuV Av	.1	11.5	46.64	79	66	63.3	53.3	-	-
				Margin (dB):	-32.36	-19.36	-16.66	-6.66	-	-
.22817	32.29dBuV Av	.1	11.4	43.79	79	66	62.52	52.52	-	-
				Margin (dB):	-35.21	-22.21	-18.73	-8.73	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

Av - CISPR average detection

Figure 14 Conducted Emissions Graph – Radio TX Mode

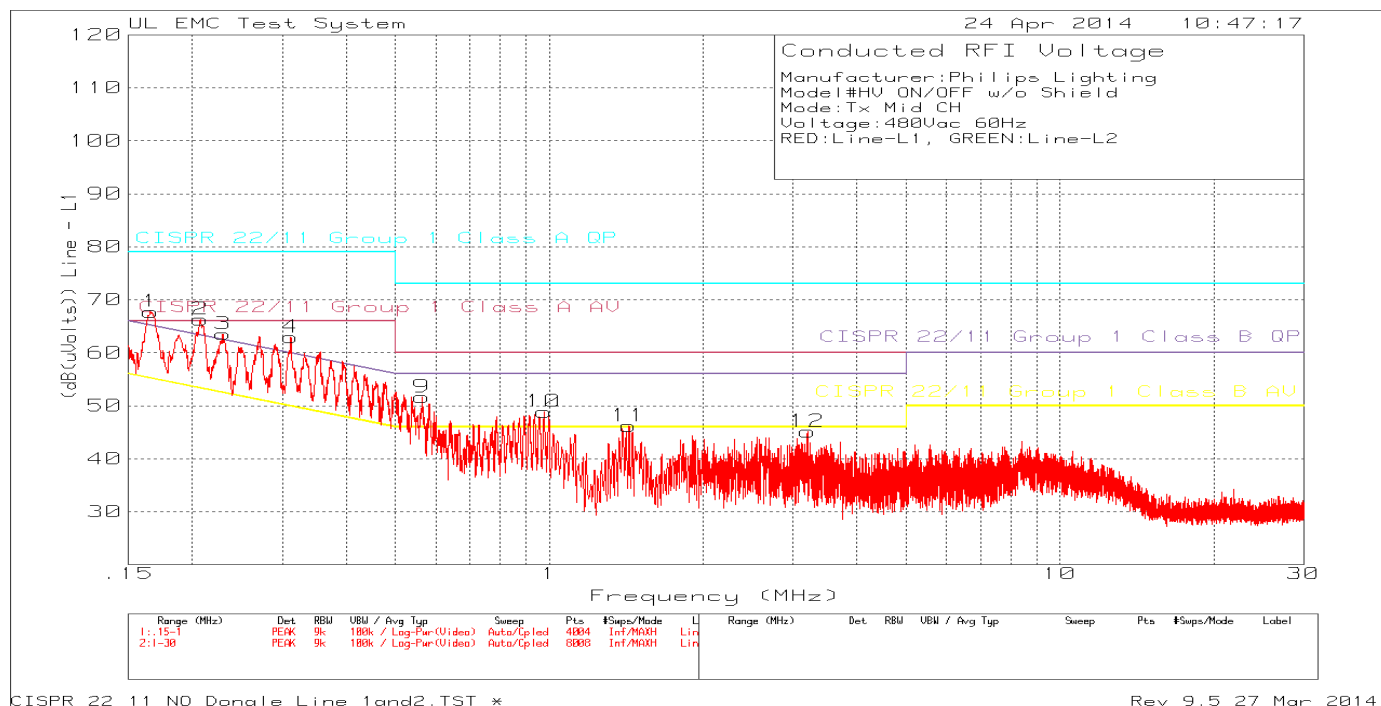
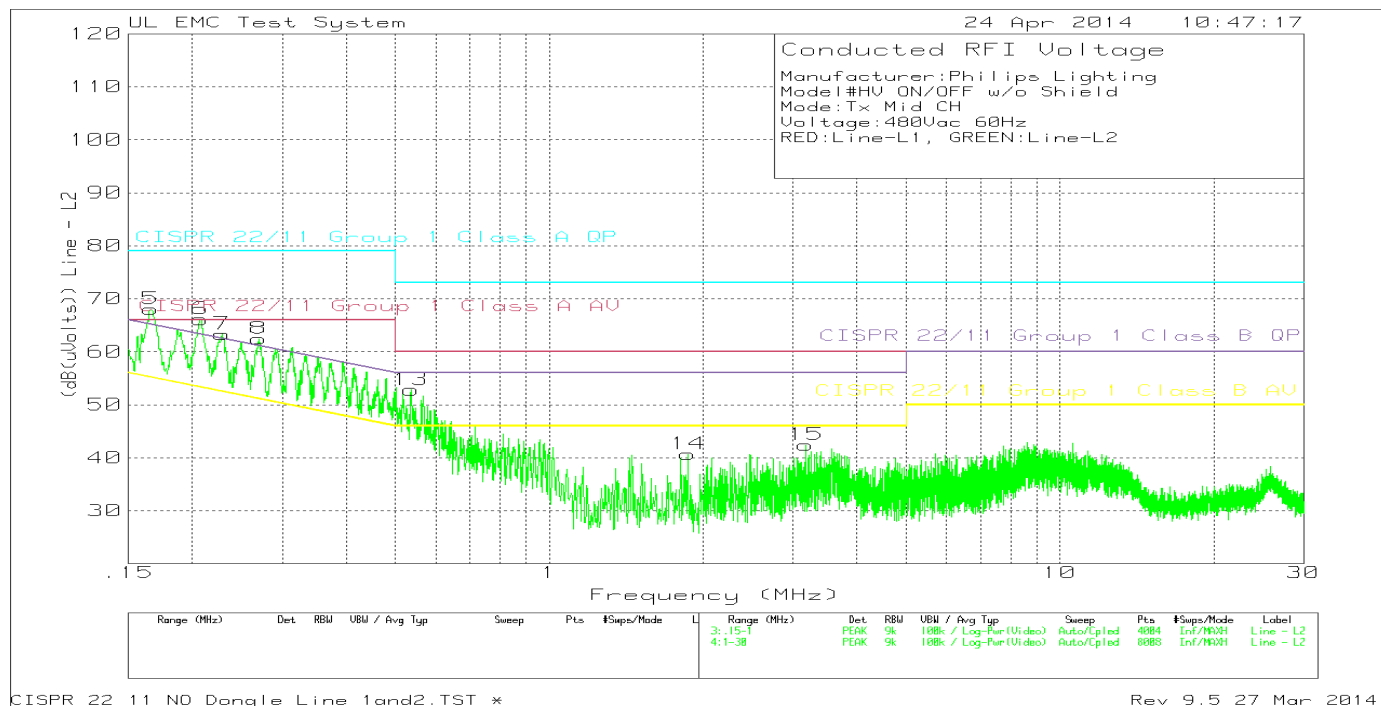


Table 15 Conducted Emissions Data Points – Radio TX Mode

Manufacturer: Philips Lighting
 Model# HV ON/OFF w/o Shield
 Mode: Tx Mid CH
 Voltage: 480Vac 60Hz
 RED: Line-L1, GREEN: Line-L2

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 - L1											
1	.16571	54.36dBuV PK	.1	13.3	67.76	79	66	65.17	55.17	-	-
					Margin (dB)	-11.24	1.76	2.59	12.59	-	-
2	.20733	54.77dBuV PK	0	11.5	66.27	79	66	63.31	53.31	-	-
					Margin (dB)	-12.73	.27	2.96	12.96	-	-
3	.22963	52.14dBuV PK	0	11.4	63.54	79	66	62.46	52.46	-	-
					Margin (dB)	-15.46	-2.46	1.08	11.08	-	-
4	.3117	52.11dBuV PK	0	10.8	62.91	79	66	59.93	49.93	-	-
					Margin (dB)	-16.09	-3.09	2.98	12.98	-	-
9	.56343	41.04dBuV PK	0	10.6	51.64	73	60	56	46	-	-
					Margin (dB)	-21.36	-8.36	-4.36	5.64	-	-
10	.97622	38.26dBuV PK	0	10.6	48.86	73	60	56	46	-	-
					Margin (dB)	-24.14	-11.14	-7.14	2.86	-	-
11	1.431	35.59dBuV PK	0	10.6	46.19	73	60	56	46	-	-
					Margin (dB)	-26.81	-13.81	-9.81	.19	-	-
12	3.2057	34.52dBuV PK	0	10.6	45.12	73	60	56	46	-	-
					Margin (dB)	-27.88	-14.88	-10.88	-.88	-	-
Line - L2											
5	.16593	54.66dBuV PK	.1	13.3	68.06	79	66	65.16	55.16	-	-
					Margin (dB)	-10.94	2.06	2.9	12.9	-	-
6	.20754	54.57dBuV PK	.1	11.5	66.17	79	66	63.3	53.3	-	-
					Margin (dB)	-12.83	.17	2.87	12.87	-	-
7	.22857	51.8dBuV PK	.1	11.4	63.3	79	66	62.5	52.5	-	-
					Margin (dB)	-15.7	-2.7	.8	10.8	-	-
8	.27019	51.27dBuV PK	.1	11.1	62.47	79	66	61.11	51.11	-	-
					Margin (dB)	-16.53	-3.53	1.36	11.36	-	-
13	.53604	42.12dBuV PK	.1	10.6	52.82	73	60	56	46	-	-
					Margin (dB)	-20.18	-7.18	-3.18	6.82	-	-
14	1.86924	29.99dBuV PK	.1	10.6	40.69	73	60	56	46	-	-
					Margin (dB)	-32.31	-19.31	-15.31	-5.31	-	-
15	3.18034	31.63dBuV PK	.1	10.7	42.43	73	60	56	46	-	-
					Margin (dB)	-30.57	-17.57	-13.57	-3.57	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Manufacturer: Philips Lighting
 Model#HV ON/OFF w/o Shield
 Mode:Tx Mid CH
 Voltage:480Vac 60Hz
 RED:Line-L1, GREEN:Line-L2

Quais-peak Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
Line - L1										
.16608	52.28dBuV QP	.1	13.3	65.68	79	66	65.15	55.15	-	-
				Margin (dB):	-13.32	-.32	.53	10.53	-	-
.20734	51.78dBuV QP	0	11.5	63.28	79	66	63.31	53.31	-	-
				Margin (dB):	-15.72	-2.72	-.03	9.97	-	-
.22885	48.97dBuV QP	0	11.4	60.37	79	66	62.49	52.49	-	-
				Margin (dB):	-18.63	-5.63	-2.12	7.88	-	-
.31176	46.91dBuV QP	0	10.8	57.71	79	66	59.92	49.92	-	-
				Margin (dB):	-21.29	-8.29	-2.21	7.79	-	-
Line - L2										
.16625	51.94dBuV QP	.1	13.3	65.34	79	66	65.15	55.15	-	-
				Margin (dB):	-13.66	-.66	.19	10.19	-	-
.20746	51.26dBuV QP	.1	11.5	62.86	79	66	63.31	53.31	-	-
				Margin (dB):	-16.14	-3.14	-.45	9.55	-	-
.22839	48.5dBuV QP	.1	11.4	60	79	66	62.51	52.51	-	-
				Margin (dB):	-19	-6	-2.51	7.49	-	-
.27045	47.2dBuV QP	.1	11.1	58.4	79	66	61.1	51.1	-	-
				Margin (dB):	-20.6	-7.6	-2.7	7.3	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP

LIMIT 2: CISPR 22/11 Group 1 Class A AV

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

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

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

QP - Quasi-Peak detector

Average Data

Test Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected Reading (dB(uVolts))	Limit:1	2	3	4	5	6
Line - L1										
.16608	38.38dBuV Av	.1	13.3	51.78	79	66	65.15	55.15	-	-
				Margin (dB):	-27.22	-14.22	-13.37	-3.37	-	-
.20734	38.09dBuV Av	0	11.5	49.59	79	66	63.31	53.31	-	-
				Margin (dB):	-29.41	-16.41	-13.72	-3.72	-	-
.22885	35.51dBuV Av	0	11.4	46.91	79	66	62.49	52.49	-	-
				Margin (dB):	-32.09	-19.09	-15.58	-5.58	-	-
.31176	33.98dBuV Av	0	10.8	44.78	79	66	59.92	49.92	-	-
				Margin (dB):	-34.22	-21.22	-15.14	-5.14	-	-
Line - L2										
.16625	37.73dBuV Av	.1	13.3	51.13	79	66	65.15	55.15	-	-
				Margin (dB):	-27.87	-14.87	-14.02	-4.02	-	-
.20746	37.13dBuV Av	.1	11.5	48.73	79	66	63.31	53.31	-	-
				Margin (dB):	-30.27	-17.27	-14.58	-4.58	-	-
.22839	34.31dBuV Av	.1	11.4	45.81	79	66	62.51	52.51	-	-
				Margin (dB):	-33.19	-20.19	-16.7	-6.7	-	-
.27045	33.07dBuV Av	.1	11.1	44.27	79	66	61.1	51.1	-	-
				Margin (dB):	-34.73	-21.73	-16.83	-6.83	-	-

LIMIT 1: CISPR 22/11 Group 1 Class A QP

LIMIT 2: CISPR 22/11 Group 1 Class A AV

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

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

NOTE: "+" - Indicates an emission level in excess of the applicable limit(s).

Av - CISPR average detection

4.2 Test Conditions and Results – RADIATED EMISSIONS Receiver Mode

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4:2003. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10-meter or 3-meter as noted. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Basic Standard	FCC Part 15, Subpart B	
UL LPG	80-EM-S0029	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz – 5GHz	3 meter
Limits – Class A		
Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30 - 88	49.54	NA
88 - 216	53.98	NA
216 - 960	56.90	NA
960 - 40000	60	60
Limits - Class B		
Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30 - 88	40	NA
88 - 216	43	NA
216 - 960	46.02	NA
960 - 40000	54	54
Supplementary information: None		

Table 16 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1,2,3,4	2	2,3
Supplementary information: None		

4.2.1 Low Voltage On/Off (120V/60Hz)

Figure 15 Radiated Emissions Graph Below 1GHz, RX Mode

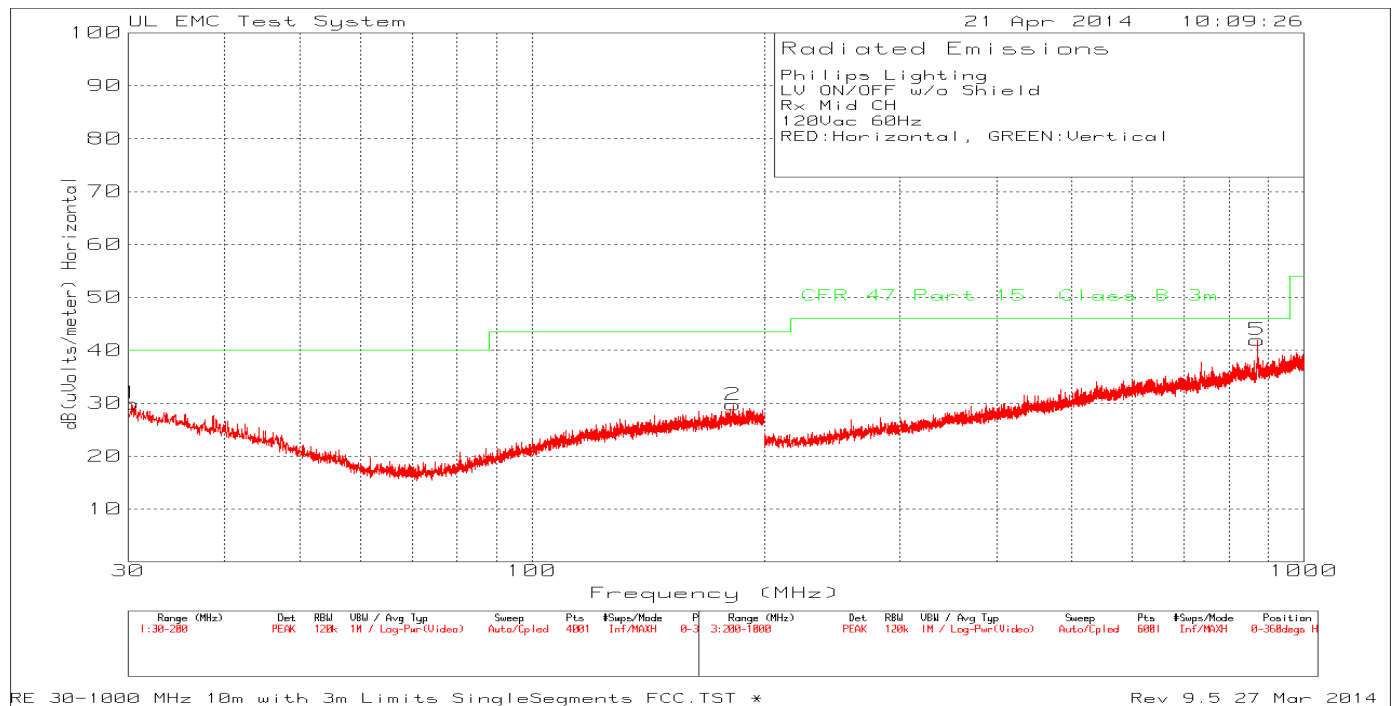
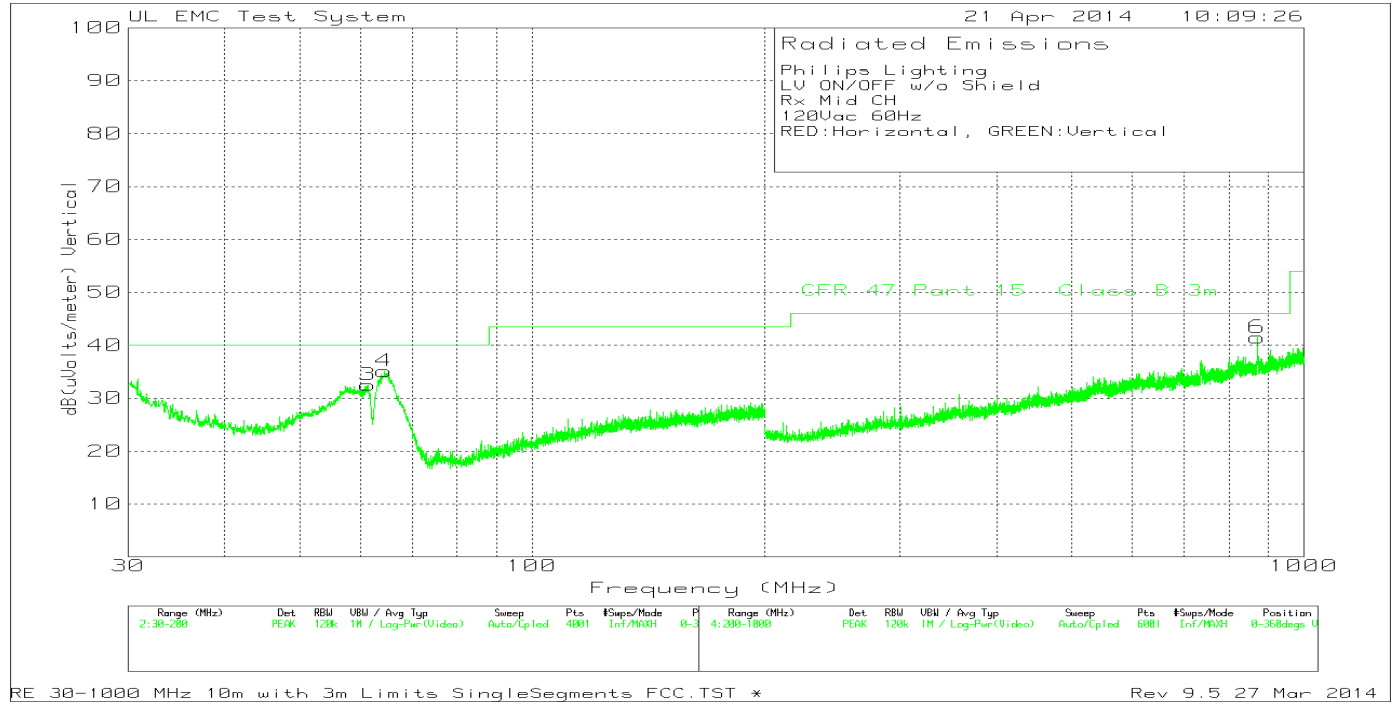


Table 17 Radiated Emissions Data Below 1GHz, RX Mode

Philips Lighting												
LV ON/OFF w/o Shield												
Rx Mid CH												
120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
	Test	Meter				10m to		Limit FCC				
Marker	Frequency	Reading		Antenna	Path	3m		15.109				
No.	MHz	dBuV	Detector	Factor	Factor	Factor	Level	Class B	Margin	Azimuth	Height	Polarity
	1	30.2975	31.85	PK	17.7	-30.1	10.5	29.95	40	-10.05	0-360	99 H
	2	182.32	32.32	PK	16.1	-29.2	10.5	29.72	43.52	-13.8	0-360	400 H
	3	61.28	45.31	PK	6.7	-30	10.5	32.51	40	-7.49	0-360	249 V
	4	64.34	48.33	PK	6.3	-30	10.5	35.13	40	-4.87	0-360	249 V
	5	870.4	33.43	PK	22.5	-24.5	10.5	41.93	46.02	-4.09	0-360	299 H
	6	870.4	32.96	PK	22.5	-24.5	10.5	41.46	46.02	-4.56	0-360	99 V
PK - Peak detector												
Radiated Emission Data												
	Test	Meter				10m to		Limit FCC				
	Frequency	Reading		Antenna	Path	3m		15.109				
	MHz	dBuV	Detector	Factor	Factor	Factor	Level	Class B	Margin	Azimuth	Height	Polarity
	64.587276	44.52	QP	6.3	-30	10.5	31.32	40	-8.68	15	249	V
QP - Quasi-Peak detector												

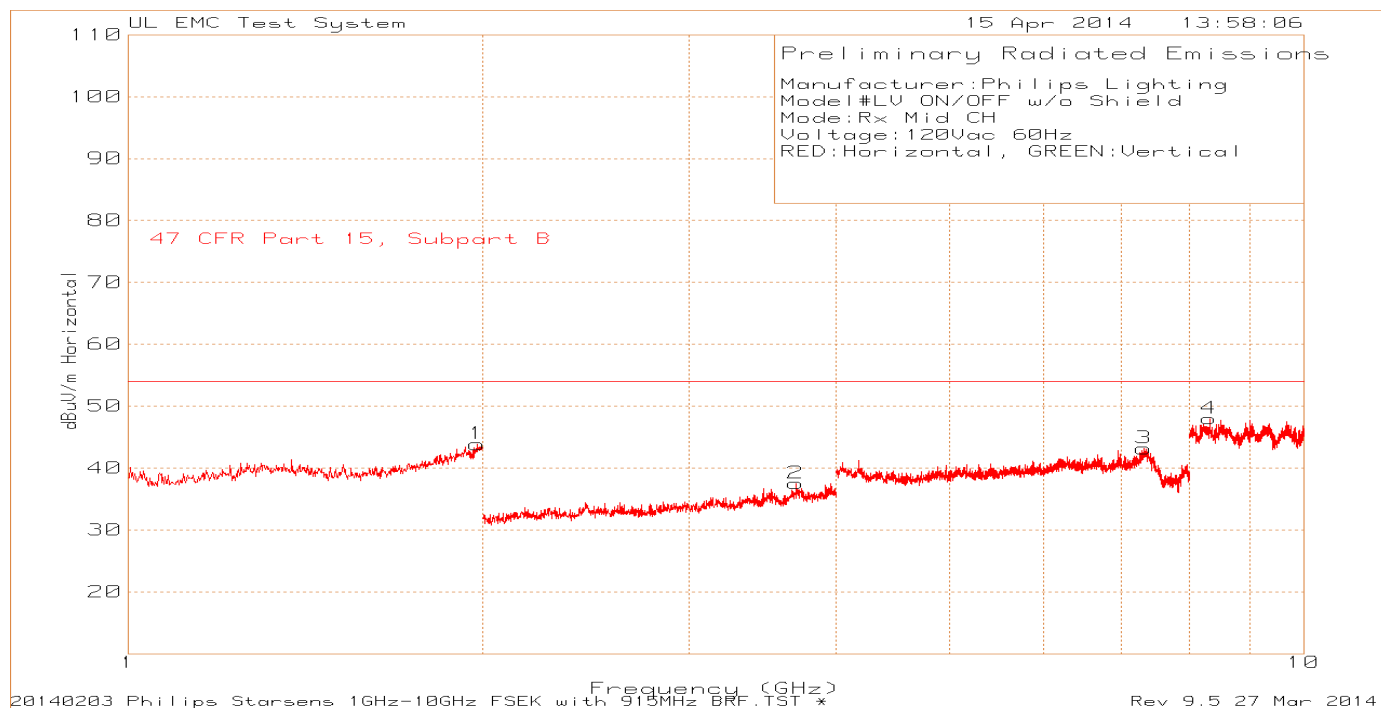
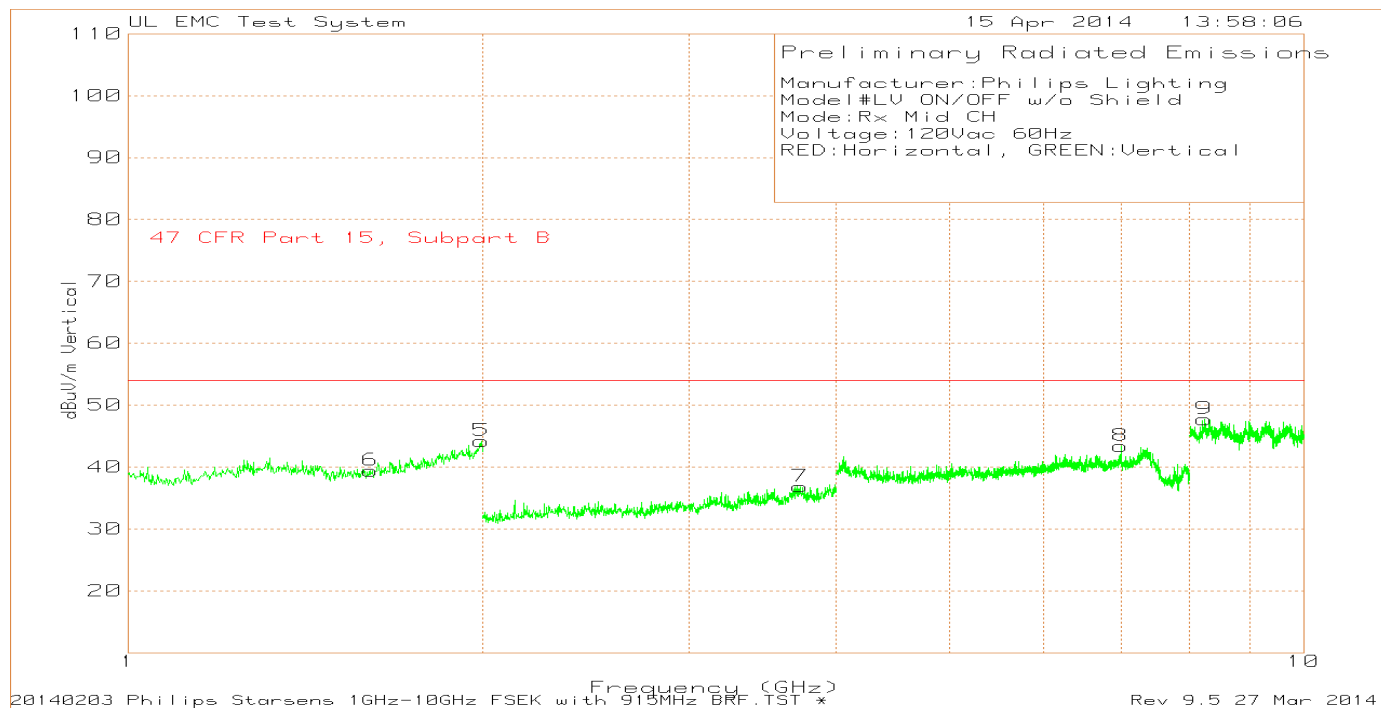
Figure 16 Radiated Emissions Graph Above 1GHz, RX Mode

Table 18 Radiated Emissions Data Above 1GHz, RX Mode

Manufacturer: Philips Lighting												
Model# LV ON/OFF w/o Shield												
Mode: Rx Mid CH												
Voltage: 120Vac 60Hz												
RED: Horizontal, GREEN: Vertical												
Trace Markers												
Marker No.	Test Frequency GHz	Meter Reading dBuV	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	FCC 15.109 Class B dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity	
1	1.98	64.64	PK	31.6	0.5	-52.87	43.87	54	-10.13	0-360	149	H
2	3.6977	62.8	PK	23.5	0	-48.77	37.53	54	-16.47	0-360	150	H
3	7.3117	58.38	PK	30.5	0	-45.71	43.17	54	-10.83	0-360	150	H
4	8.3123	59.57	PK	36.5	0	-48.06	48.01	54	-5.99	0-360	150	H
5	1.998	64.17	PK	31.8	1	-52.75	44.22	54	-9.78	0-360	150	V
6	1.6072	64.74	PK	28.4	0.2	-53.91	39.43	54	-14.57	0-360	150	V
7	3.7277	62.62	PK	23.7	0	-49.47	36.85	54	-17.15	0-360	150	V
8	6.9875	59.77	PK	29.3	0	-45.66	43.41	54	-10.59	0-360	150	V
9	8.2282	58.3	PK	36.4	0	-46.99	47.71	54	-6.29	0-360	150	V
PK - Peak detector												

4.2.2 Low Voltage On/Off (277V/60Hz)

Figure 17 Radiated Emissions Graph Below 1GHz, RX Mode

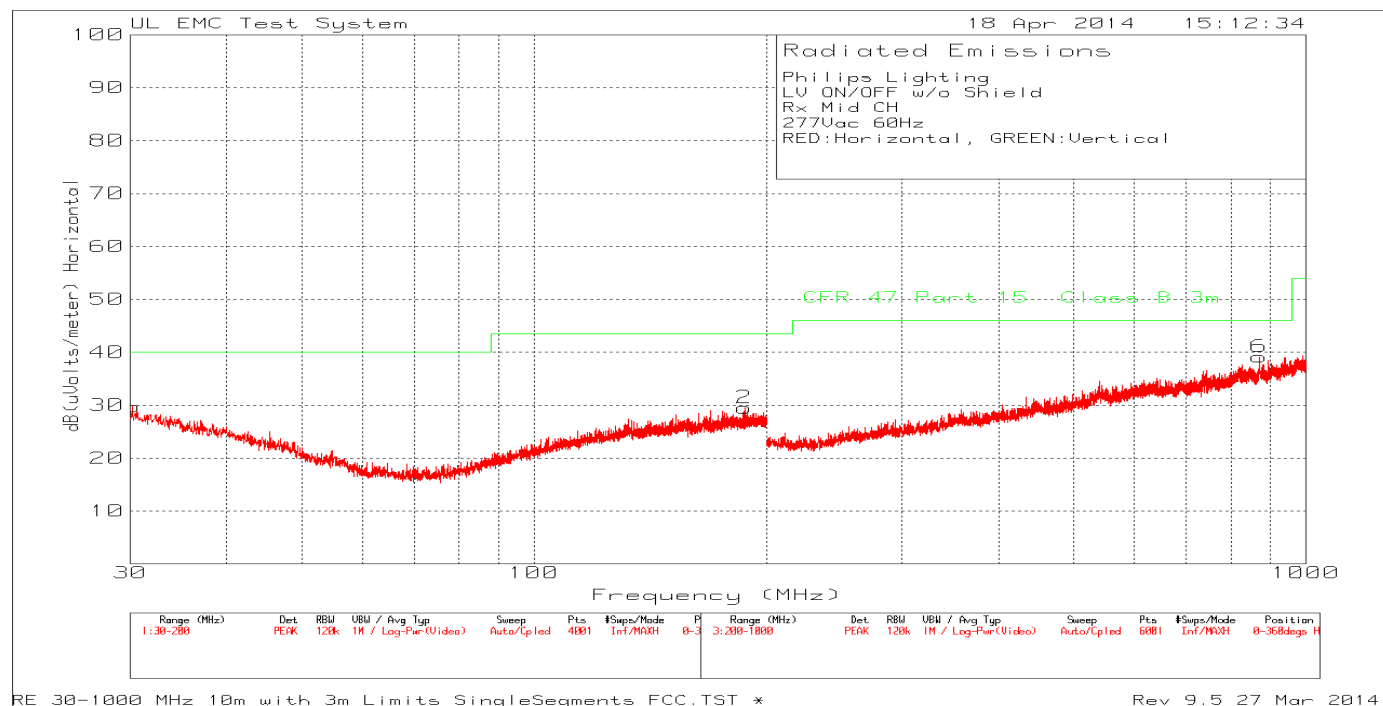
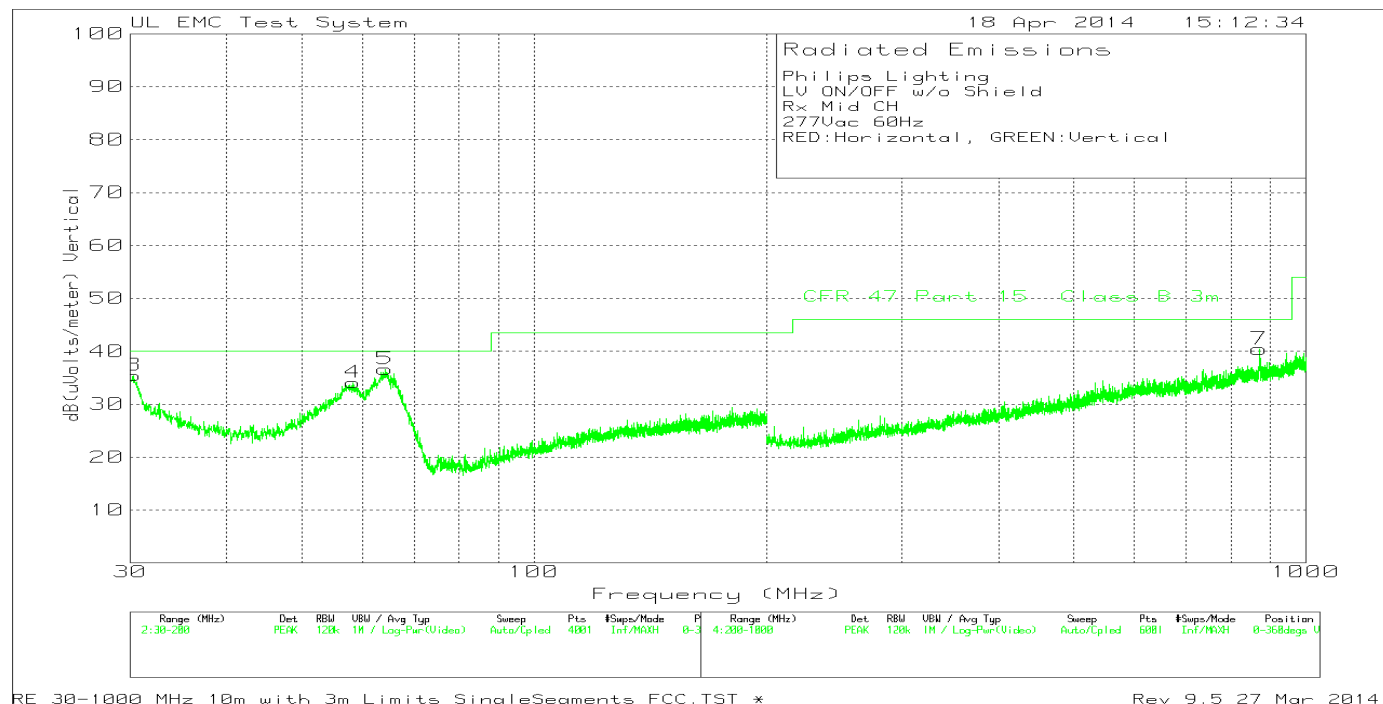


Table 19 Radiated Emissions Data Below 1GHz, RX Mode

Philips Lighting												
LV ON/OFF w/o Shield												
Rx Mid CH												
277Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.109 Class B dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	30.17	31.55	PK	17.8	-30.1	10.5	29.75	40	-10.25	0-360	100	H
2	187.42	32.09	PK	15.9	-29	10.5	29.49	43.52	-14.03	0-360	100	H
3	30.2975	37.35	PK	17.7	-30.1	10.5	35.45	40	-4.55	0-360	99	V
4	58.305	46.41	PK	7.3	-30.1	10.5	34.11	40	-5.89	0-360	249	V
5	64.1275	49.82	PK	6.3	-30	10.5	36.62	40	-3.38	0-360	249	V
6	870.6667	30.65	PK	22.5	-24.5	10.5	39.15	46.02	-6.87	0-360	99	H
7	870.6667	31.89	PK	22.5	-24.5	10.5	40.39	46.02	-5.63	0-360	299	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.109 Class B dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	64.063397	46.23	QP	6.3	-30	10.5	33.03	40	-6.97	275	266	V
	30.159641	33.64	QP	17.8	-30.1	10.5	31.84	40	-8.16	359	100	V
QP - Quasi-Peak detector												

4.2.3 Low Voltage Dimming (120V/60Hz)

Figure 18 Radiated Emissions Graph Below 1GHz, RX Mode

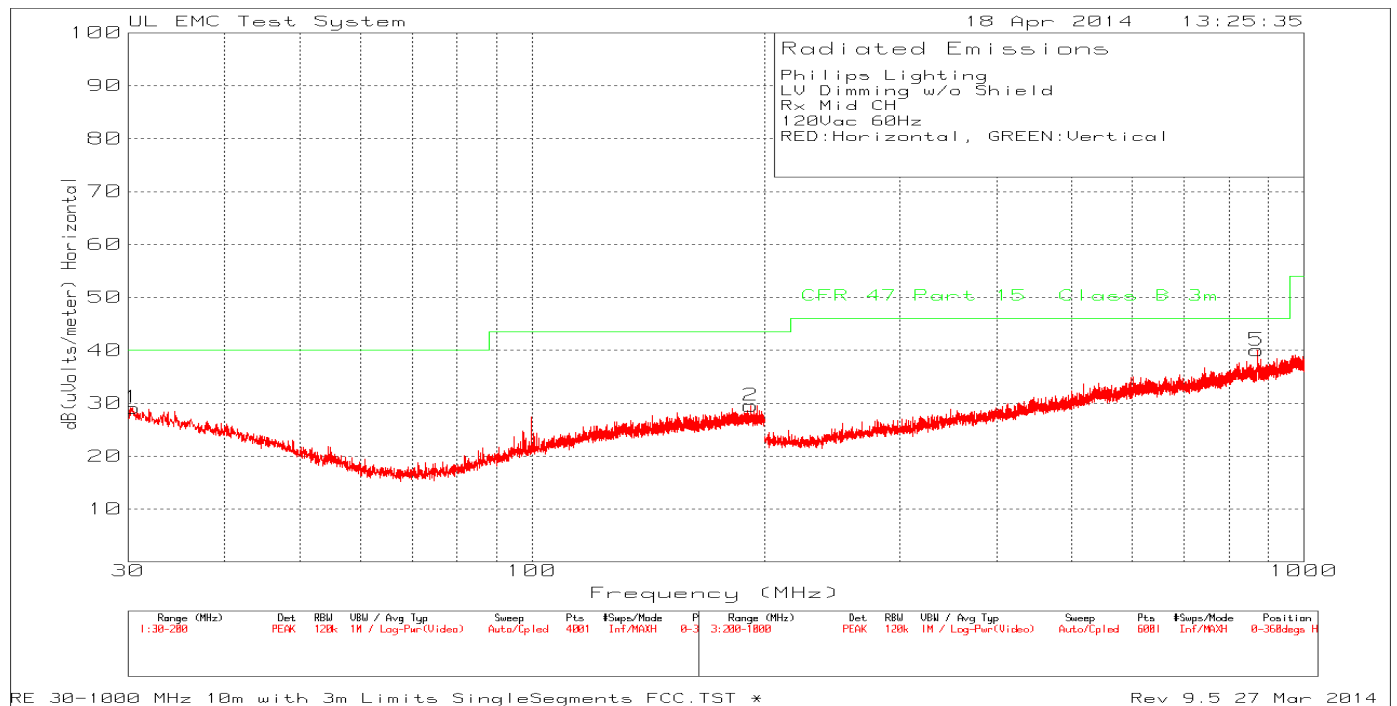
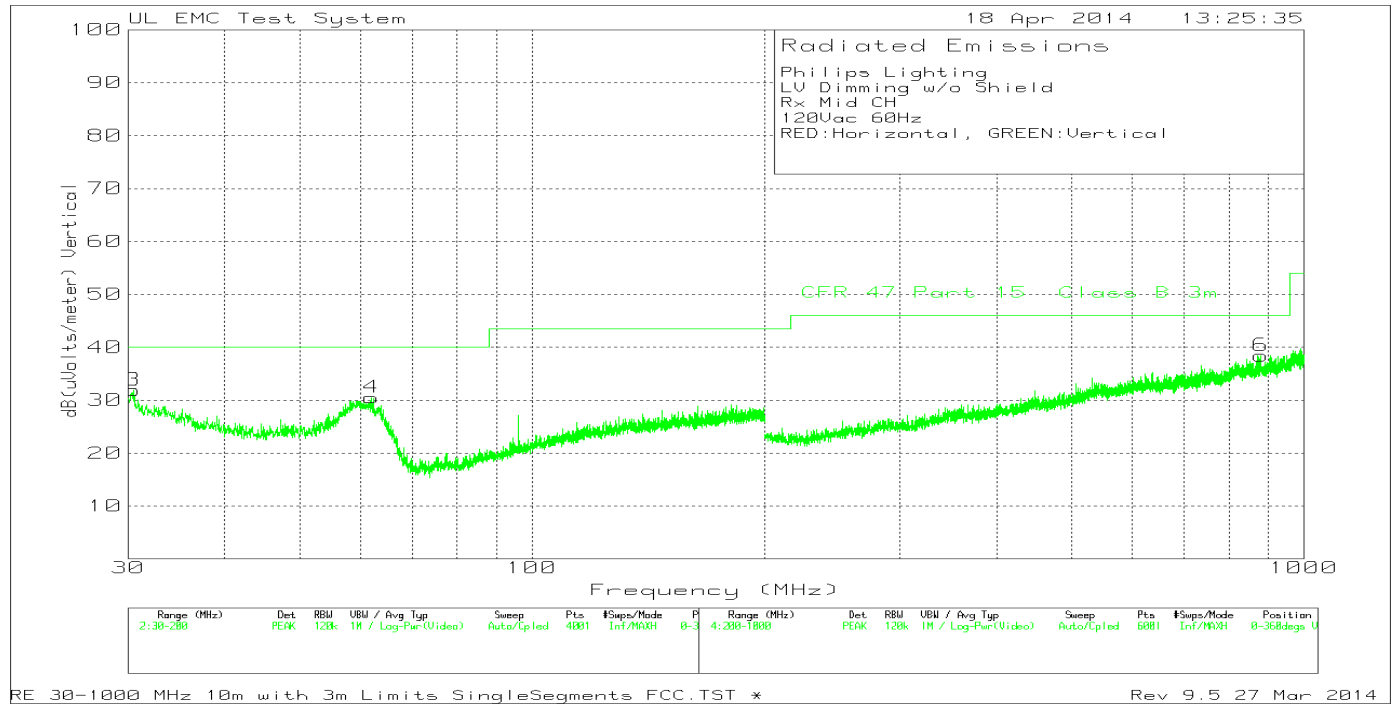


Table 20 Radiated Emissions Data Below 1GHz, RX Mode

Philips Lighting												
LV Dimming w/o Shield												
Rx Mid CH												
120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	FCC 15.109 Class B dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	30.3825	31.06	PK	17.7	-30.1	10.5	29.16	40	-10.84	0-360	249	H
2	192.1375	31.84	PK	16.1	-28.9	10.5	29.54	43.52	-13.98	0-360	249	H
3	30.425	33.88	PK	17.6	-30.1	10.5	31.88	40	-8.12	0-360	99	V
4	61.96	43.4	PK	6.5	-29.9	10.5	30.5	40	-9.5	0-360	249	V
5	870	31.5	PK	22.5	-24.5	10.5	40	46.02	-6.02	0-360	199	H
6	880.4	30.02	PK	22.8	-24.9	10.5	38.42	46.02	-7.6	0-360	99	V
PK - Peak detector												

Figure 19 Radiated Emissions Graph Above 1GHz, RX Mode

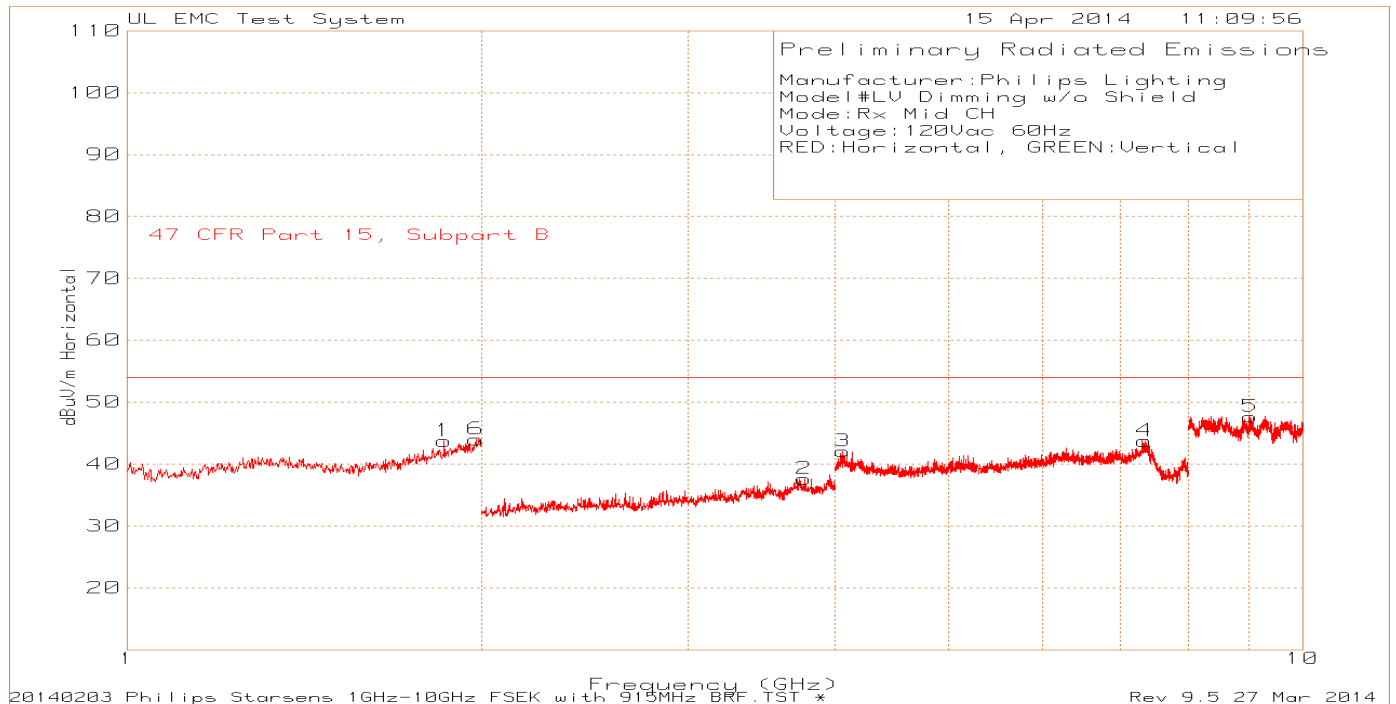
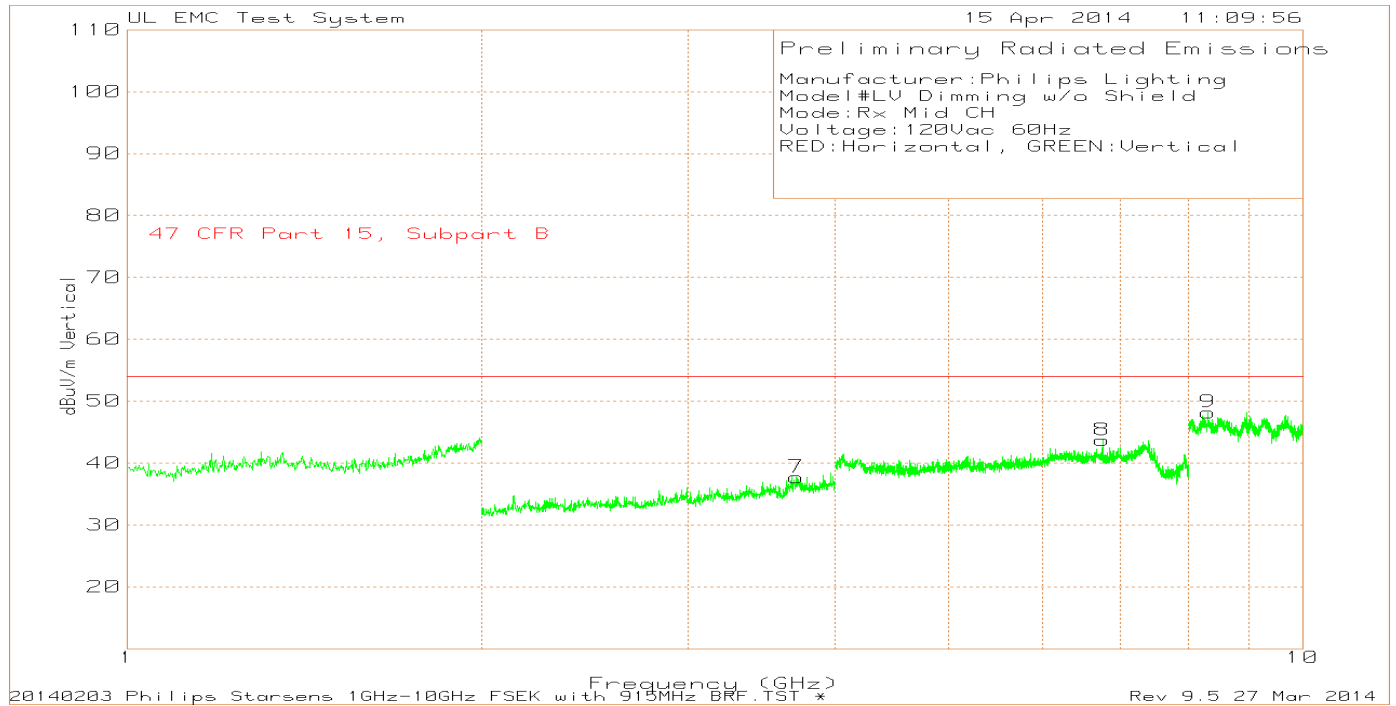


Table 21 Radiated Emissions Data Above 1GHz, RX Mode

Manufacturer: Philips Lighting												
Model# LV Dimming w/o Shield												
Mode: Rx Mid CH												
Voltage: 120Vac 60Hz												
RED: Horizontal, GREEN: Vertical												
Trace Markers												
Marker No.	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit FCC 15.109 Class B dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	1.8597	66.19	PK	30.6	0.3	-53.38	43.71	54	-10.29	0-360	149	H
6	1.98	64.75	PK	31.6	0.5	-52.87	43.98	54	-10.02	0-360	149	H
2	3.7658	64.29	PK	23.9		-50.59	37.6	54	-16.4	0-360	150	H
3	4.062	64.2	PK	28.4		-50.54	42.06	54	-11.94	0-360	150	H
4	7.3377	58.75	PK	30.7		-45.75	43.7	54	-10.3	0-360	150	H
5	9.027	59.58	PK	36.1		-48.02	47.66	54	-6.34	0-360	150	H
7	3.7097	63.04	PK	23.6		-48.95	37.69	54	-16.31	0-360	150	V
8	6.7554	61.06	PK	28.9		-46.27	43.69	54	-10.31	0-360	150	V
9	8.3103	59.75	PK	36.5		-48.05	48.2	54	-5.8	0-360	150	V
PK - Peak detector												

4.2.4 Low Voltage Dimming (277V/60Hz)

Figure 20 Radiated Emissions Graph Below 1GHz, RX Mode

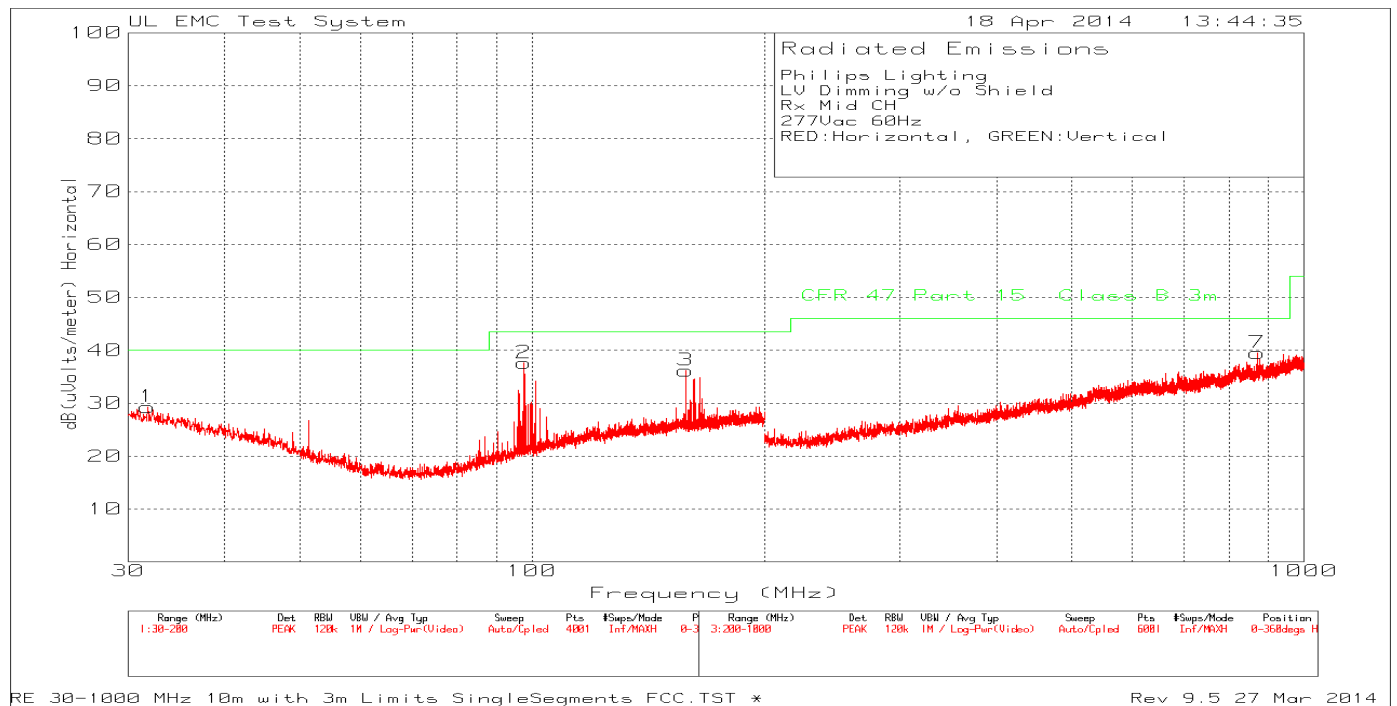
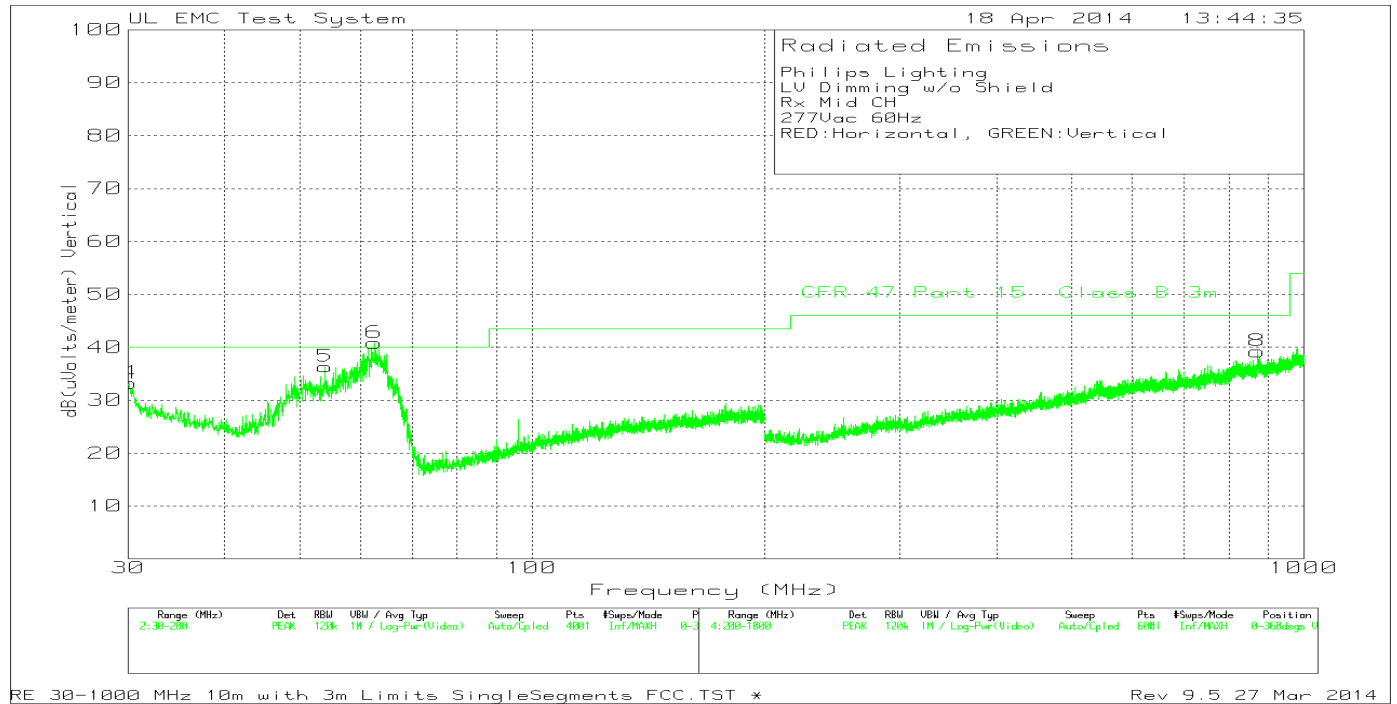


Table 22 Radiated Emissions Data Below 1GHz, RX Mode

Philips Lighting

LV Dimming w/o Shield

Rx Mid CH

277Vac 60Hz

RED:Horizontal, GREEN:Vertical

Trace Markers

Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC	Margin dB	Limit FCC	Margin dB	Azimuth [Degs]
								15.109 Class B dBuV/m		15.109 Class A dBuV/m		
1	31.785	31.76	PK	17.1	-30.1	10.5	29.26	40	-10.74	49.54	-20.28	0-360
2	97.66	46.62	PK	10.3	-29.8	10.5	37.62	43.52	-5.9	53.98	-16.36	0-360
3	158.18	40.29	PK	15	-29.6	10.5	36.19	43.52	-7.33	53.98	-17.79	0-360
4	30.0425	34.91	PK	17.9	-30.1	10.5	33.21	40	-6.79	49.54	-16.33	0-360
5	53.97	47.25	PK	8.6	-30	10.5	36.35	40	-3.65	49.54	-13.19	0-360
6	62.555	53.85	PK	6.5	-30	10.5	40.85	40	0.85	49.54	-8.69	0-360
7	870.1333	31.03	PK	22.5	-24.5	10.5	39.53	46.02	-6.49	56.9	-17.37	0-360
8	870.1333	30.75	PK	22.5	-24.5	10.5	39.25	46.02	-6.77	56	-16.75	0-360

PK - Peak detector

4.2.5 High Voltage On/Off (347V/60Hz)

Figure 21 Radiated Emissions Graph Below 1GHz, RX Mode

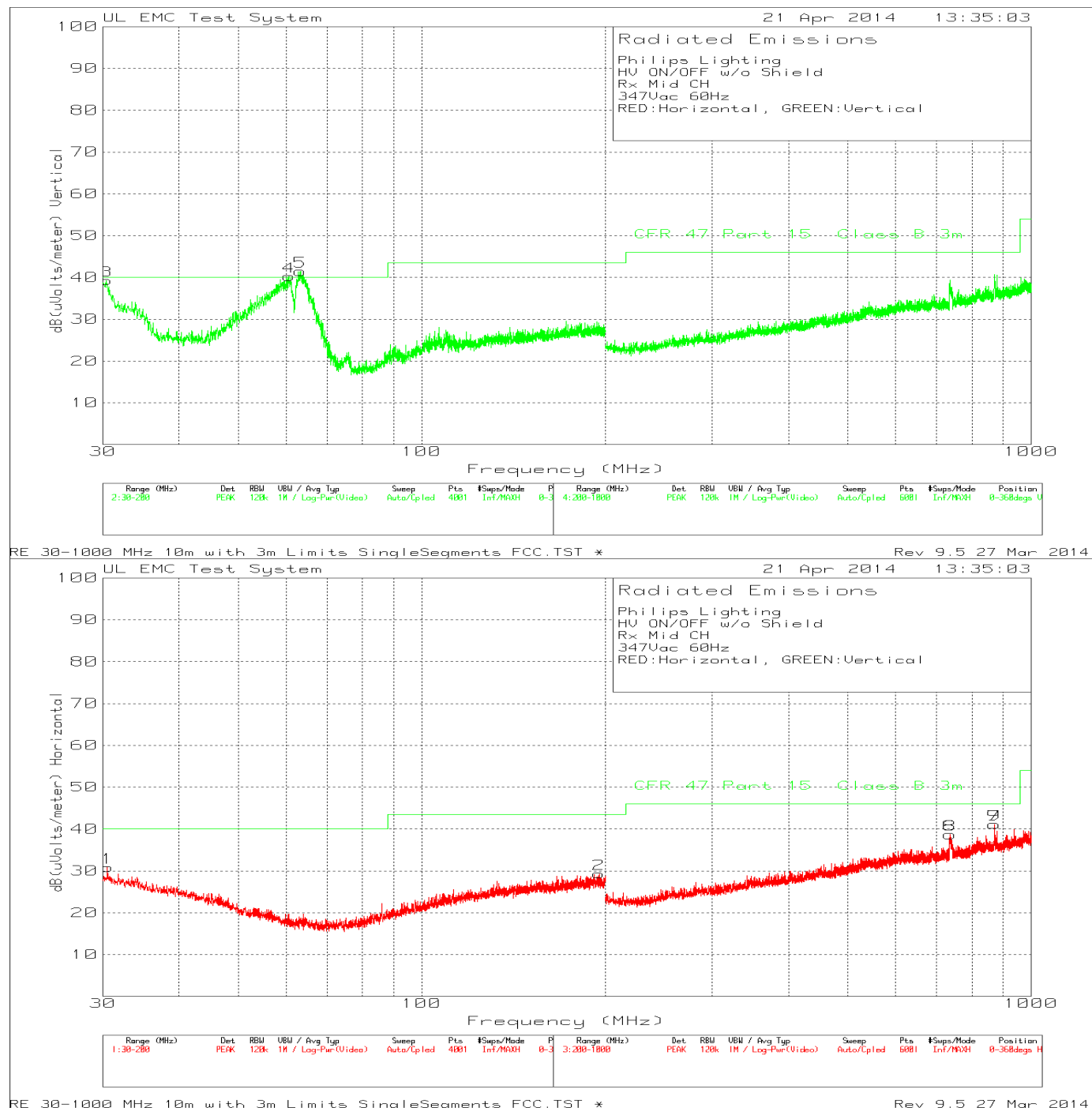


Table 23 Radiated Emissions Data Below 1GHz, RX Mode

Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.109		Limit FCC 15.109		Azimuth [Degs]	Height [cm]	Polarity
								Class B	Margin dB	Class A	Margin dB			
1	30.51	32.81	PK	17.6	-30.1	10.5	30.81	40	-9.19	49.54	-18.73	0-360	400	H
2	195.4525	31.64	PK	16	-28.8	10.5	29.34	43.52	-14.18	53.98	-24.64	0-360	99	H
3	30.34	41.18	PK	17.7	-30.1	10.5	39.28	40	-0.72	49.54	-10.26	0-360	99	V
4	60.6	52.94	PK	6.8	-30	10.5	40.24	40	0.24	49.54	-9.3	0-360	249	V
5	63.235	54.47	PK	6.5	-30	10.5	41.47	40	1.47	49.54	-8.07	0-360	249	V
6	736.4	32.21	PK	20.3	-24.3	10.5	38.71	46.02	-7.31	56.9	-18.19	0-360	399	H
7	871.4667	32.73	PK	22.5	-24.6	10.5	41.13	46.02	-4.89	56.9	-15.77	0-360	399	H
8	736.4	32.21	PK	20.3	-24.3	10.5	38.71	46.02	-7.31	56.9	-18.19	0-360	399	H
9	871.4667	32.73	PK	22.5	-24.6	10.5	41.13	46.02	-4.89	56.9	-15.77	0-360	399	H

PK - Peak detector

Radiated Emission Data

Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.109		Limit FCC 15.109		Azimuth [Degs]	Height [cm]	Polarity
							Class B	Margin dB	Class A	Margin dB			
62.951026	49.57	QP	6.5	-30	10.5	36.57	40	-3.43	49.54	-12.97	104	233	V
60.909556	47.42	QP	6.8	-30	10.5	34.72	40	-5.28	49.54	-14.82	0	255	V
30.413553	36.47	QP	17.7	-30.1	10.5	34.57	40	-5.43	49.54	-14.97	210	101	V

QP - Quasi-Peak detector

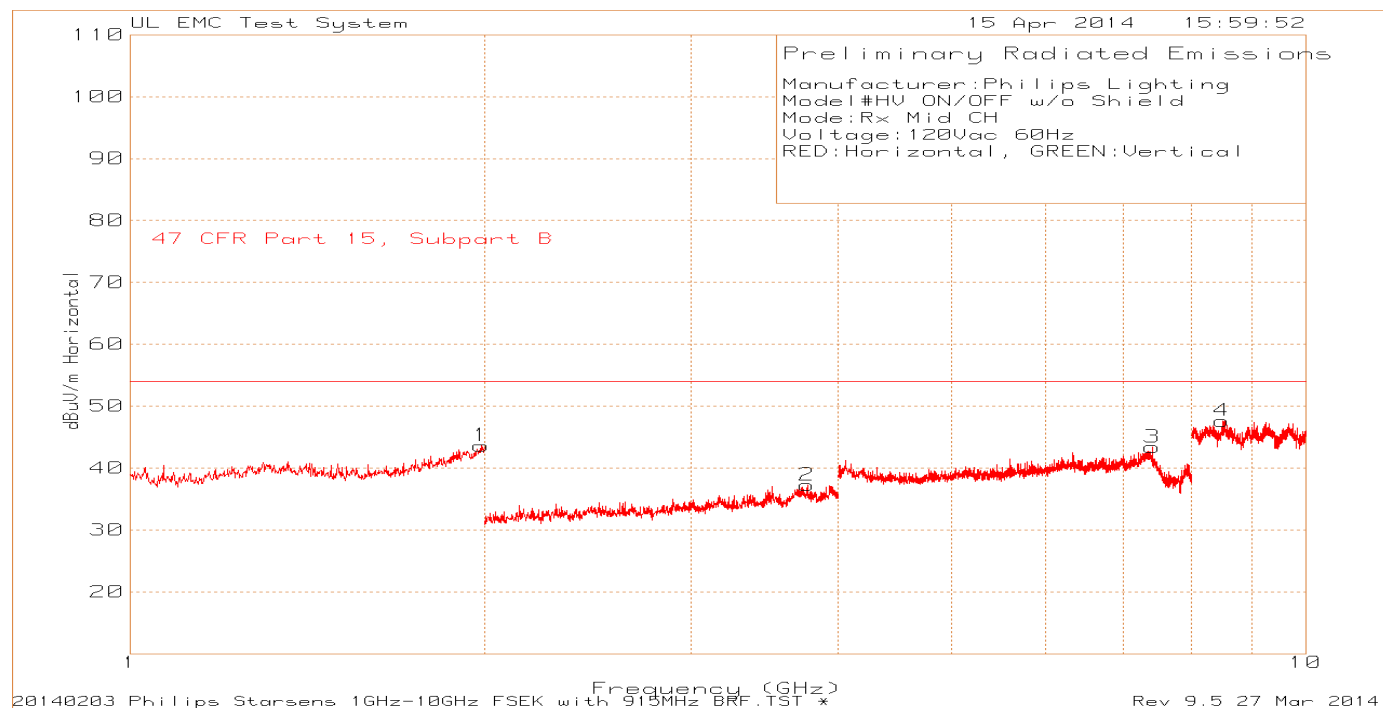
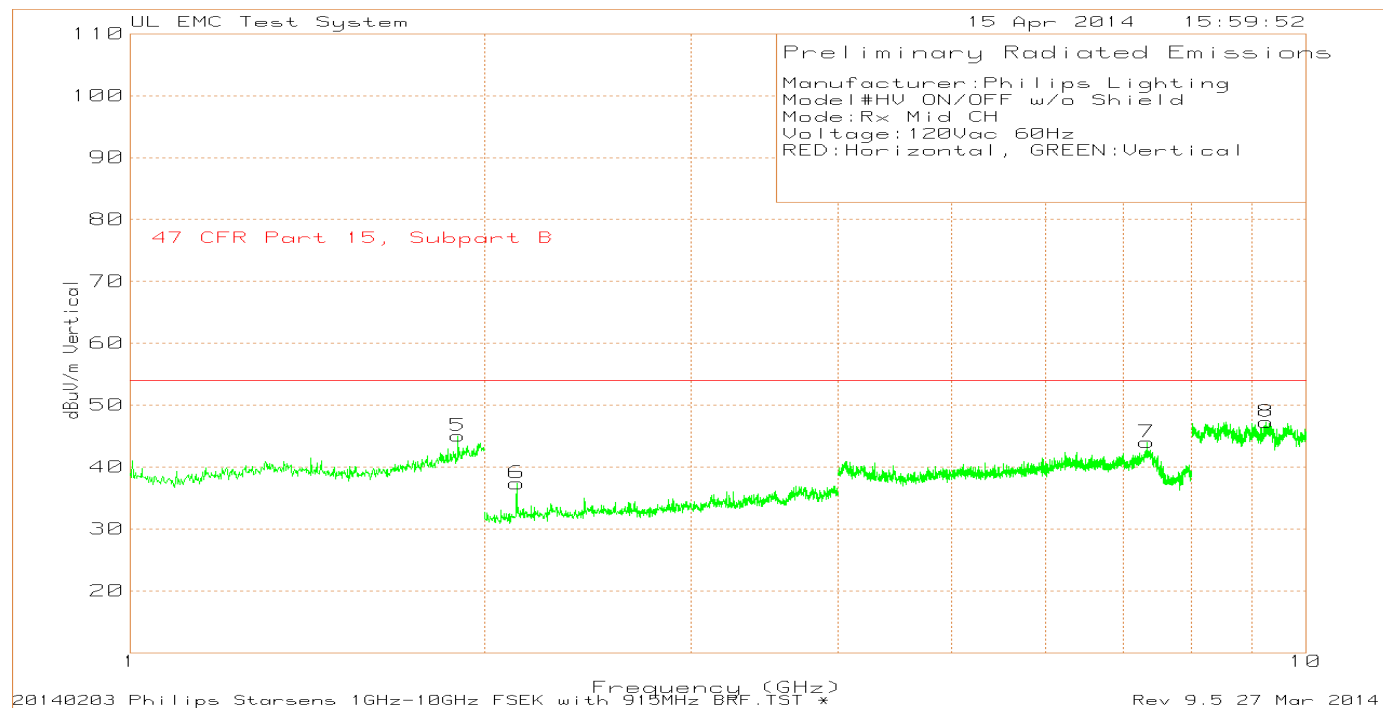
Figure 22 Radiated Emissions Graph Above 1GHz, RX Mode

Table 24 Radiated Emissions Data Above 1GHz, RX Mode

Manufacturer: Philips Lighting												
Model#HV ON/OFF w/o Shield												
Mode: Rx Mid CH												
Voltage: 120Vac 60Hz												
RED: Horizontal, GREEN: Vertical												
Trace Markers												
Marker No.	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit FCC 15.109 Class B dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	1.988	63.89	PK	31.7	0.8	-52.81	43.58	54	-10.42	0-360	149	H
2	3.7658	63.92	PK	23.9		-50.59	37.23	54	-16.77	0-360	150	H
3	7.4037	58.64	PK	31.1		-46.36	43.38	54	-10.62	0-360	150	H
4	8.4905	59.15	PK	36.7		-48.23	47.62	54	-6.38	0-360	150	H
5	1.8998	66.48	PK	31.1	0.5	-53.05	45.03	54	-8.97	0-360	150	V
6	2.1321	67.98	PK	21.5		-52.09	37.39	54	-16.61	0-360	150	V
7	7.3257	59.12	PK	30.6		-45.71	44.01	54	-9.99	0-360	150	V
8	9.2573	58.73	PK	36.4		-47.84	47.29	54	-6.71	0-360	150	V
PK - Peak detector												

4.2.6 High Voltage On/Off (480V/60Hz)

Figure 23 Radiated Emissions Graph Below 1GHz, RX Mode

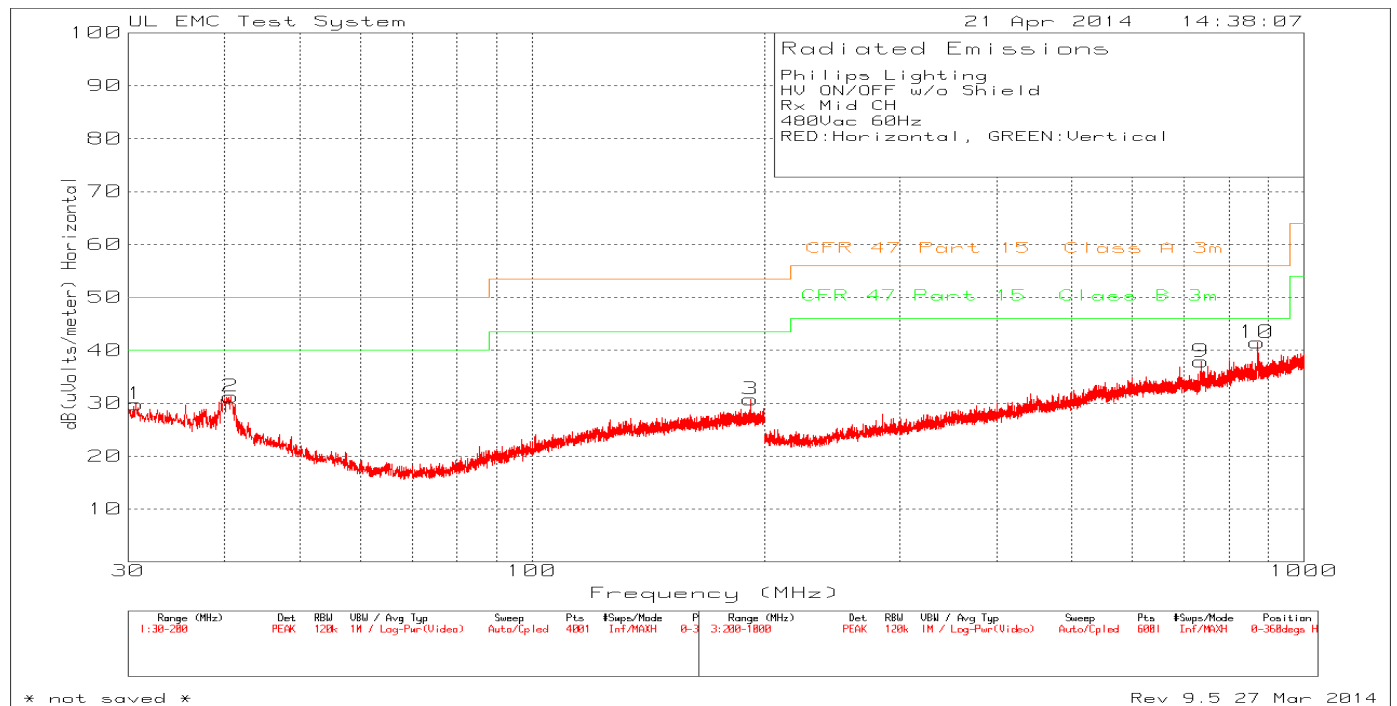
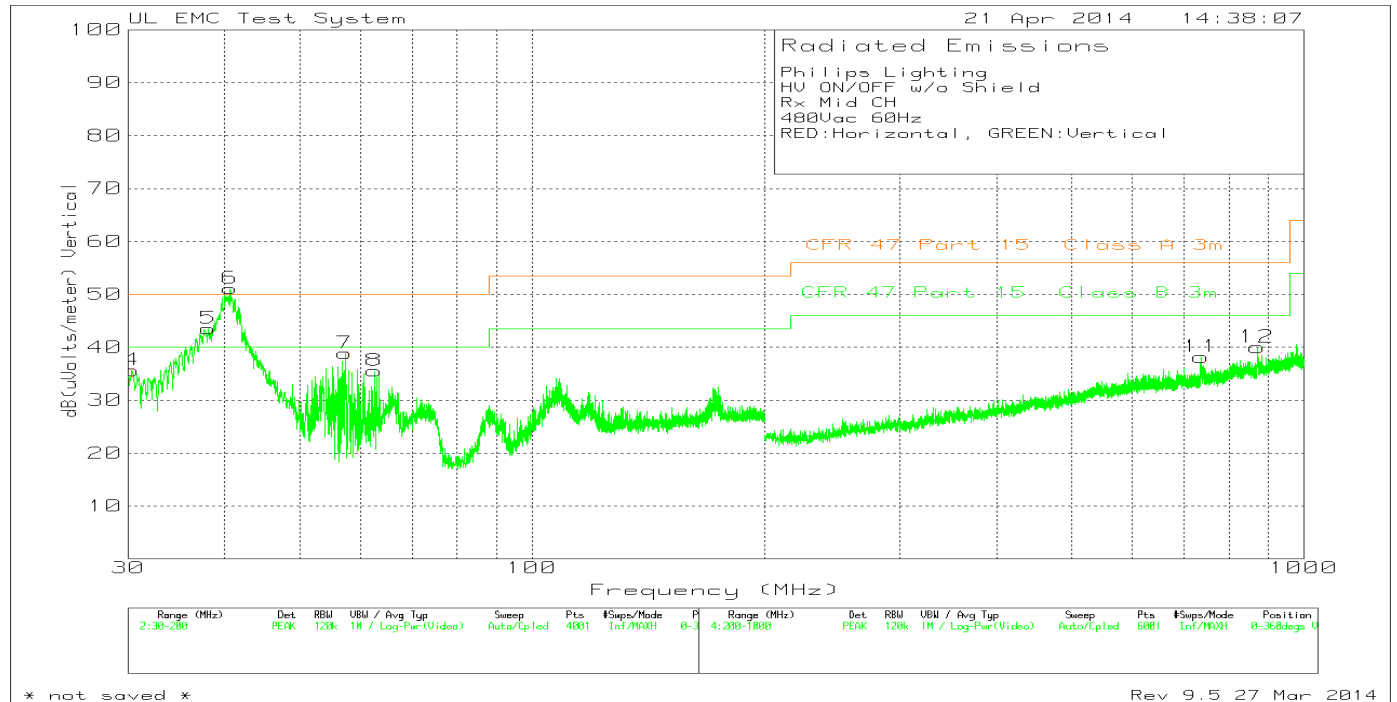


Table 25 Radiated Emissions Data Below 1GHz, RX Mode

Philips Lighting														
HV ON/OFF w/o Shield														
Rx Mid CH														
480Vac 60Hz														
RED:Horizontal, GREEN:Vertical														
Trace Markers														
	Test	Meter		Antenna	Path	10m to		Limit FCC		Limit FCC				
Marker	Frequency	Reading		Factor	Factor	3m		15.109		15.109			Height	
No.	MHz	dBuV	Detector	dB/m	dB	Factor	Level	Class B	Margin	Class A	Margin	Azimuth	[cm]	Polarity
1	30.6375	31.89	PK	17.5	-30.1	10.5	29.79	40	-10.21	50	-20.21	0-360	399	H
2	40.71	37.18	PK	13.7	-30.1	10.5	31.28	40	-8.72	50	-18.72	0-360	250	H
3	192.095	33.02	PK	16.1	-28.9	10.5	30.72	43.52	-12.8	53.52	-22.8	0-360	250	H
4	30.2975	37.55	PK	17.7	-30.1	10.5	35.65	40	-4.35	50	-14.35	0-360	99	V
5	38.075	48.24	PK	14.8	-30	10.5	43.54	40	3.54	50	-6.46	0-360	99	V
6	40.625	56.92	PK	13.8	-30.1	10.5	51.12	40	11.12	50	1.12	0-360	99	V
7	57.2425	50.89	PK	7.6	-30.1	10.5	38.89	40	-1.11	50	-11.11	0-360	99	V
8	62.5125	48.58	PK	6.5	-30	10.5	35.58	40	-4.42	50	-14.42	0-360	99	V
9	736	31.37	PK	20.3	-24.3	10.5	37.87	46.02	-8.15	56.02	-18.15	0-360	200	H
10	870.6667	32.97	PK	22.5	-24.5	10.5	41.47	46.02	-4.55	56.02	-14.55	0-360	200	H
11	736.5333	31.77	PK	20.3	-24.4	10.5	38.17	46.02	-7.85	56.02	-17.85	0-360	199	V
12	870.2667	31.49	PK	22.5	-24.5	10.5	39.99	46.02	-6.03	56.02	-16.03	0-360	199	V
PK - Peak detector														
Radiated Emission Data														
	Test	Meter		Antenna	Path	10m to		Limit FCC		Limit FCC				
	Frequency	Reading		Factor	Factor	3m		15.109		15.109			Height	
	MHz	dBuV	Detector	dB/m	dB	Factor	Level	Class B	Margin	Class A	Margin	Azimuth	[cm]	Polarity
	40.310032	52.38	QP	13.9	-30.1	10.5	46.68	40	6.68	50	-3.32	208	100	V
QP - Quasi-Peak detector														

4.3 Test Conditions and Results – SPURIOUS EMISSIONS (Antenna Conducted and Radiated)

Test Description	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section15.205(c)).		
Basic Standard	47 CFR Part 15.247(d) RSS-210, A8.5 RSS-Gen 7.2.5		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	30MHz – 1GHz	10 meter distance and / or antenna port	
Fully configured sample scanned over the following frequency range	1GHz – 10GHz	3 meter distance and / or antenna port	
Limits (Antenna Conducted)			
All emissions must be 20dB below the level of the fundamental frequency.			
Limits (Radiated – Restricted Bands Only)			
Frequency (MHz)	Limit (dBμV/m)		
	Quasi-Peak	Average	
	General Emissions	Fundamental	Spurious
30 – 88	40.0	-	-
88 – 216	43.52	-	-
216 - 960	46.02	-	-
960 - 1000	54	-	-
1,000-25,000	-	-	54
Supplementary information: Radiated Spurious Emissions levels (below) were extrapolated to 3m distance. The host of the EUT is a power supply therefore there is no emissions above 1GHz. Data at 120V above 1GHz can be used to represent all other voltages above 1GHz.			
The module with the host in some cases complies only with the FCC Class A limits. With all the data collected (see below) it was determined that the module does not add to the emission levels and it is the host (LV and HV supply) responsible for the emissions. Another version of the module (FCC ID: VBO-SSDB1S & IC: 135Y-SSDB1S) was tested as stand-alone full-module with shield. The module complies with FCC class B limits.			

Table 26 SPURIOUS EMISSIONS EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1,2,3,4	1,2	1,3
Supplementary information: None		

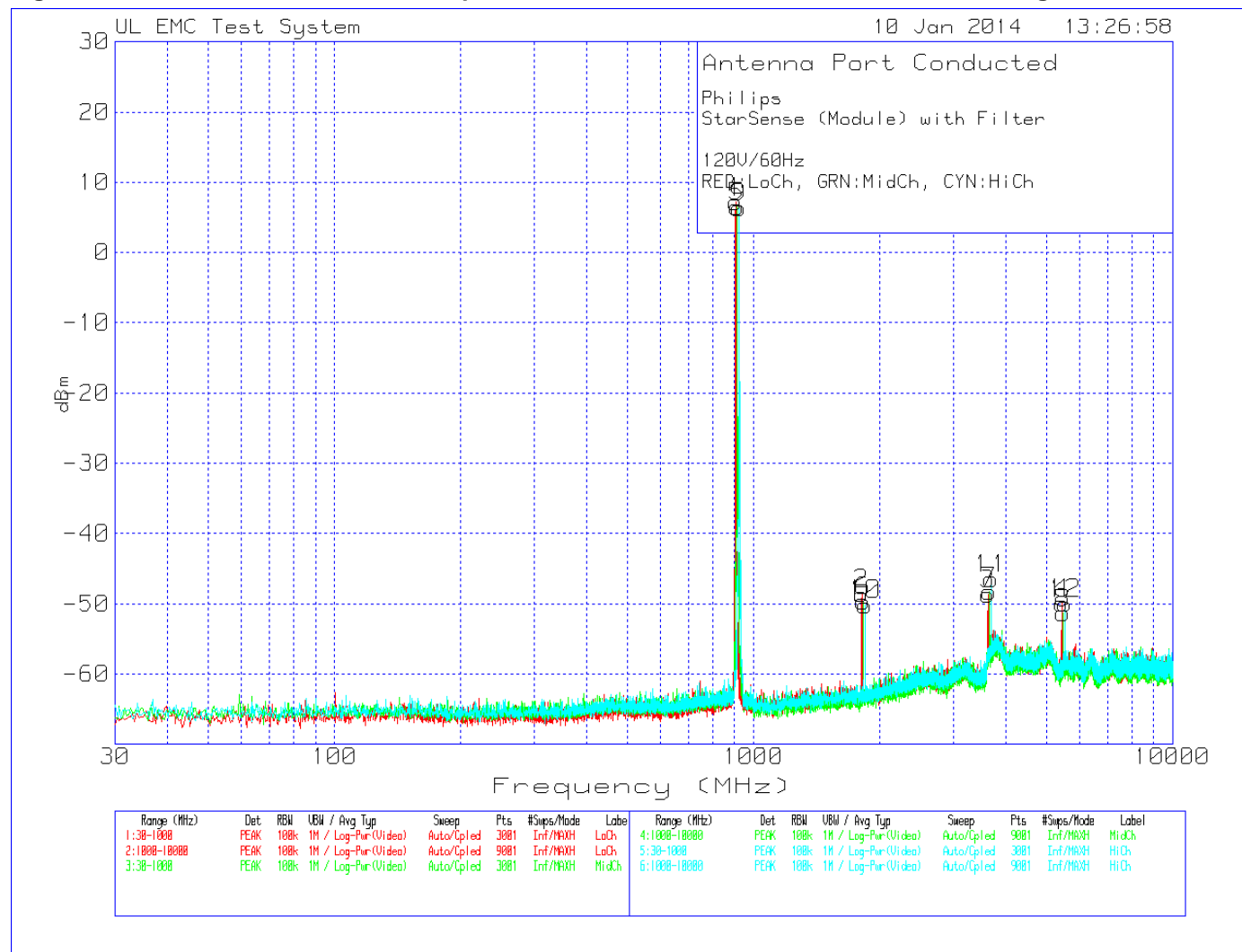
Figure 24 30MHz-10GHz Antenna Port Spurious Emissions Plots TX Mode, Low, Middle, High Channels.

Table 27 Antenna Port Conducted Spurious Emissions 30MHz - 10GHz, Low, Middle, High Channels

Philips					
StarSense (Module) with Filter					
120V/60Hz					
RED:LoCh, GRN:MidCh, CYN:HiCh					
Trace Markers					
	Test				
	Frequency	Meter		Cable and	Corrected
Marker No.	MHz	Reading dBm	Detector	Attenuator dB	Reading dBm
Low Channel					
1	905.91	-3.04	PK	10.2	7.16
2	1812	-58.81	PK	10.2	-48.61
3	3624	-58.86	PK	10.2	-48.66
4	5436	-60.1	PK	10.2	-49.9
Middle Channel					
5	913.9933	-3.71	PK	10.2	6.49
6	1827	-59.84	PK	10.2	-49.64
7	3656	-58.5	PK	10.2	-48.3
8	5484	-61.54	PK	10.2	-51.34
High Channel					
9	924.0167	-3.85	PK	10.2	6.35
10	1848	-60.35	PK	10.2	-50.15
11	3696	-56.66	PK	10.2	-46.46
12	5544	-60.19	PK	10.2	-49.99
PK - Peak detector					

* All spurious emissions are 20dB or more under the level of the fundamental.

Figure 25 Antenna Port Bandedge Spurious Emissions Plots TX Mode, Low, Middle, High Channels.

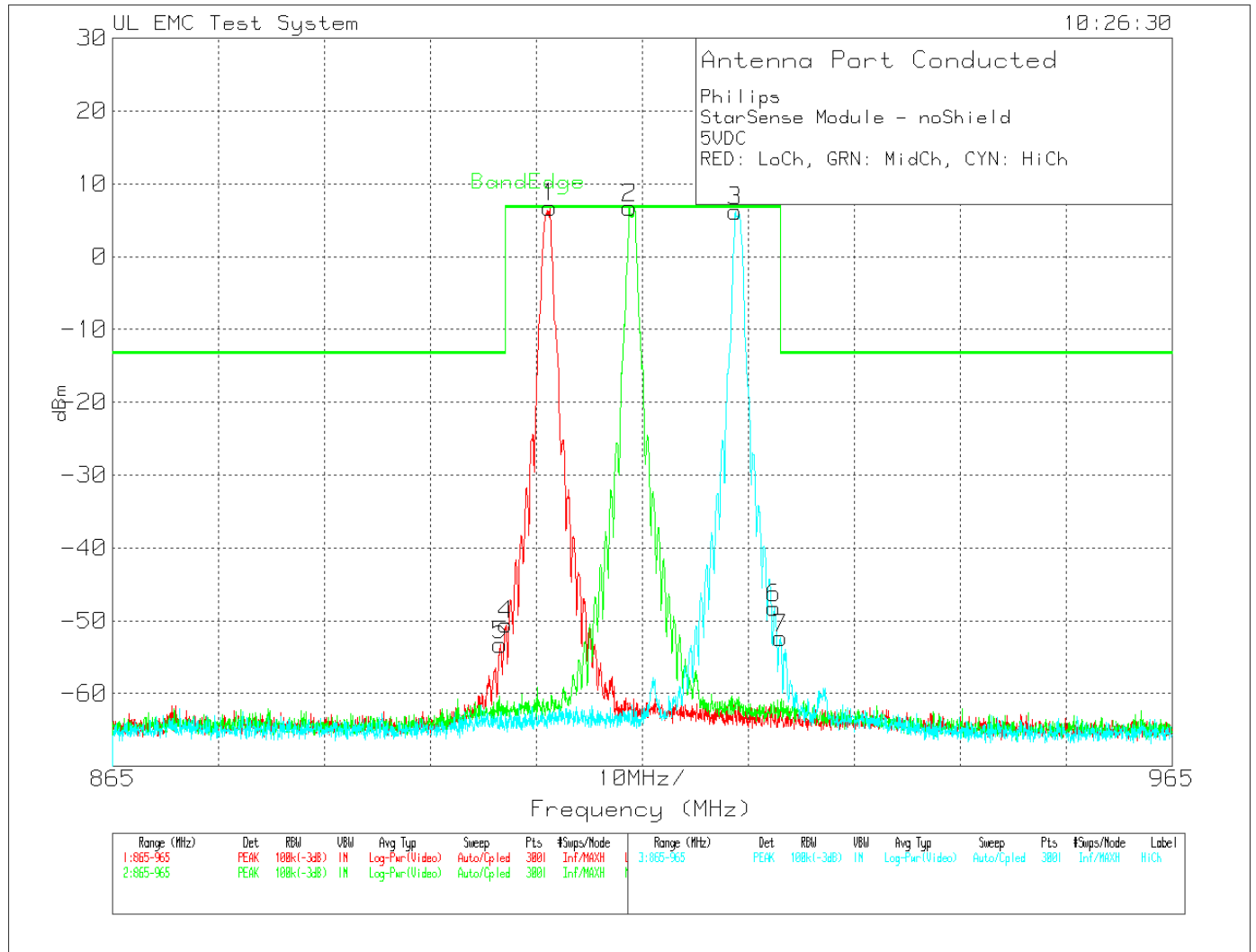


Table 28 Antenna Port Band-edge Spurious Emissions, Low, Middle, High Channels

Philips							
StarSense Module - noShield							
5VDC							
RED: LoCh, GRN: MidCh, CYN: HiCh							
Marker No.	Test Frequency MHz	Meter Reading dBm	Detector	Path Factor dB	Level dBm	Limit dBm	Margin (dB)
Low Channel							
1	906.2663	-3.43	PK	10.2	6.77	6.77	0.00
4	902.0996	-60.76	PK	10.2	-50.56	6.77	-57.33
5	901.5663	-63.47	PK	10.2	-53.27	-13.23	-40.04
Middle Channel							
2	913.7662	-3.45	PK	10.2	6.75	6.77	-0.02
High Channel							
3	923.7661	-3.97	PK	10.2	6.23	6.77	-0.54
6	927.4327	-58.43	PK	10.2	-48.23	6.77	-55
7	928.0327	-62.56	PK	10.2	-52.36	-13.23	-39.13
PK - Peak detector							

4.3.1 Low Voltage On/Off (120V/60Hz)

Figure 26 Radiated Spurious Emissions below 1GHz, Low Channel

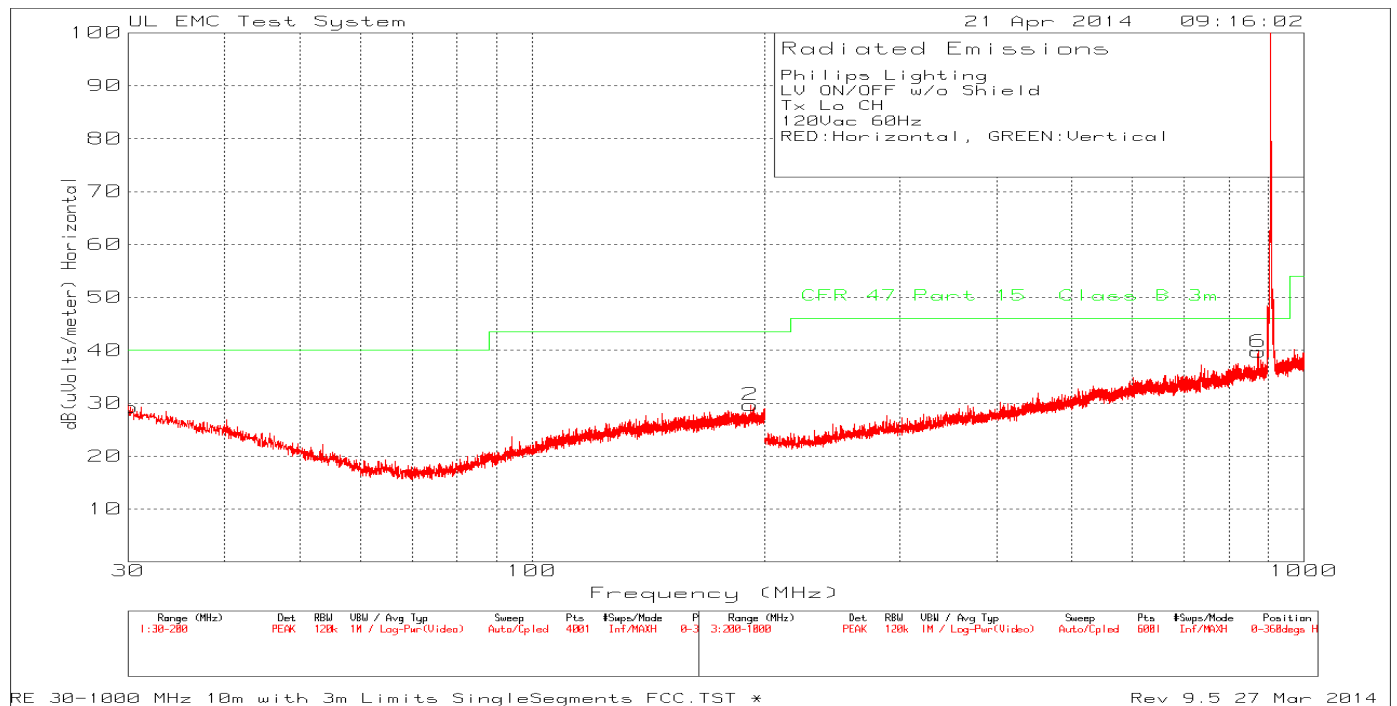
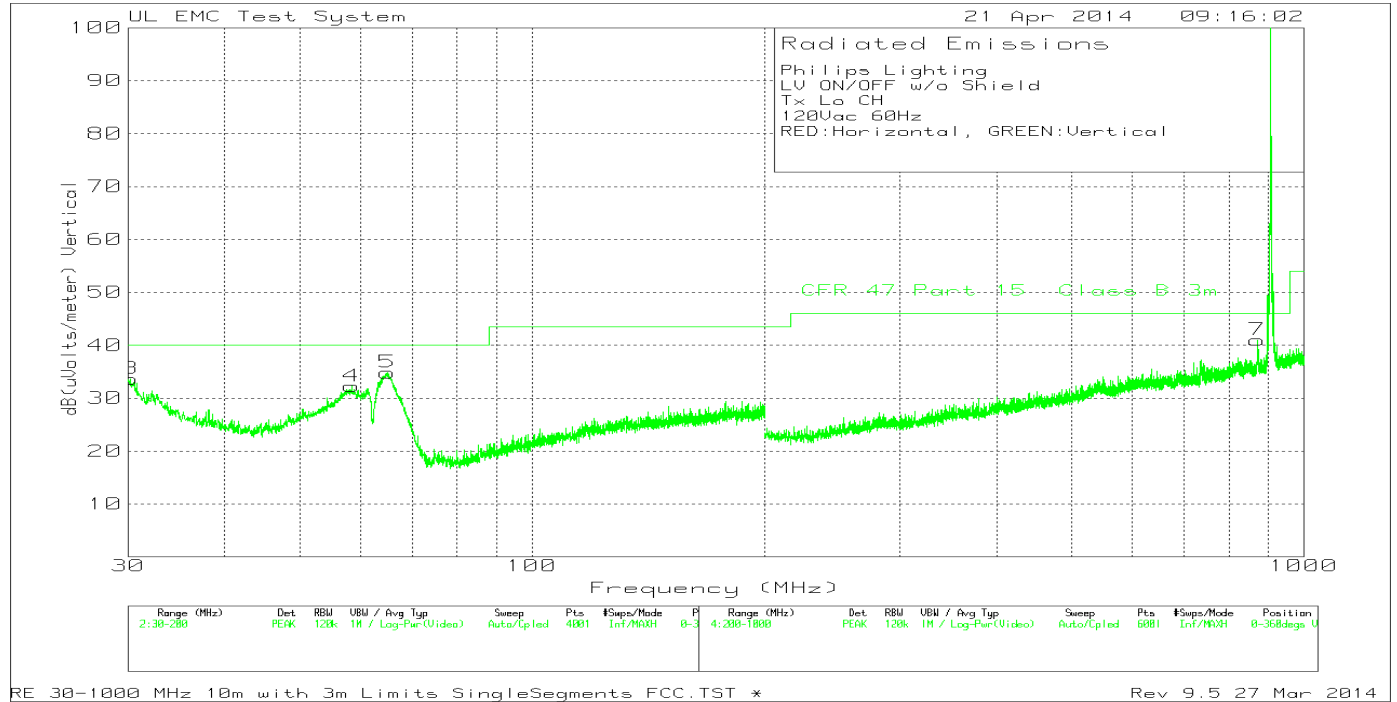


Table 29 Radiated Spurious Emissions below 1GHz, Low Channel

Philips Lighting												
LV ON/OFF w/o Shield												
Tx Lo CH												
120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity	
1	30.17	31.03	PK	17.8	-30.1	10.5	29.23	40	-10.77	0-360	249	H
2	192.095	31.98	PK	16.1	-28.9	10.5	29.68	43.52	-13.84	0-360	249	H
3	30.2125	35.48	PK	17.8	-30.1	10.5	33.68	40	-6.32	0-360	99	V
4	58.39	44.57	PK	7.3	-30.1	10.5	32.27	40	-7.73	0-360	250	V
5	64.9775	48.04	PK	6.3	-30	10.5	34.84	40	-5.16	0-360	250	V
6	873.4667	31.51	PK	22.5	-24.8	10.5	39.71	46.02	-6.31	0-360	199	H
7	871.2	32.6	PK	22.5	-24.6	10.5	41	46.02	-5.02	0-360	399	V
PK - Peak detector												
Radiated Emission Data												

Figure 27 Radiated Spurious Emissions above 1GHz, Low Channel

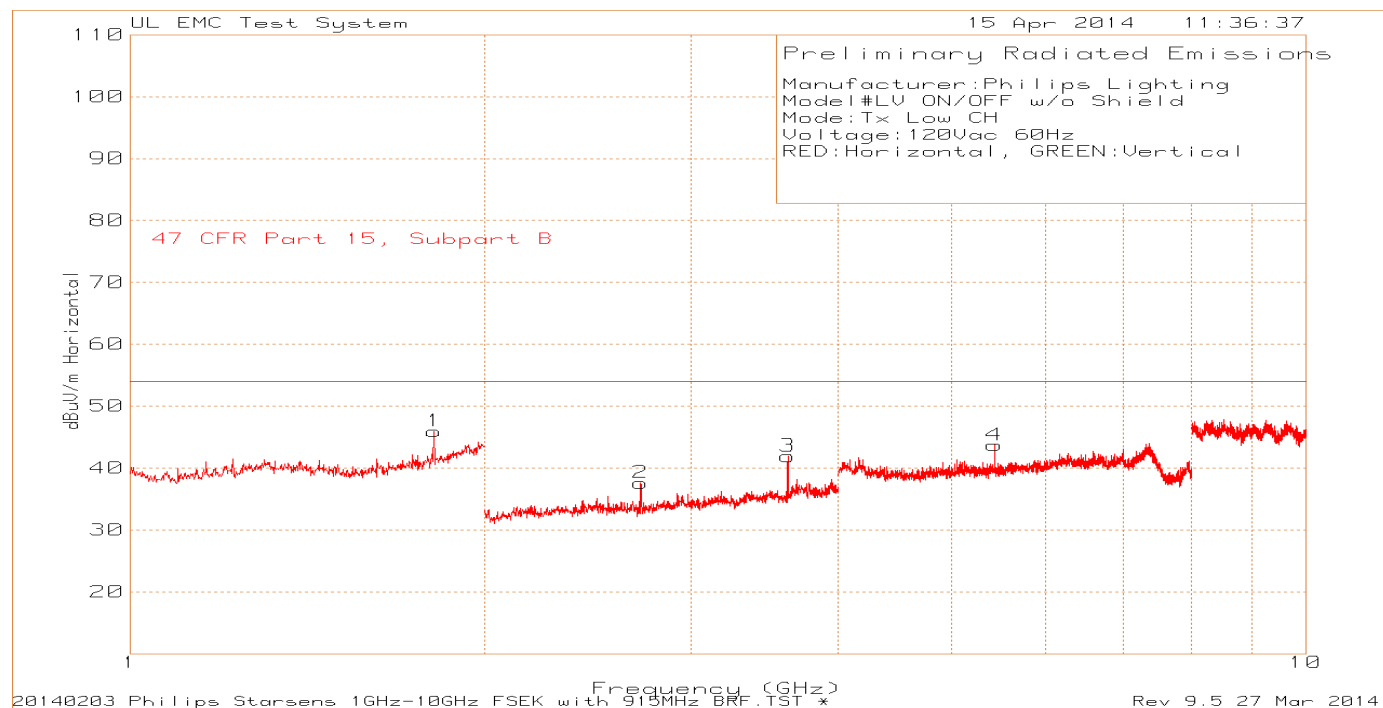
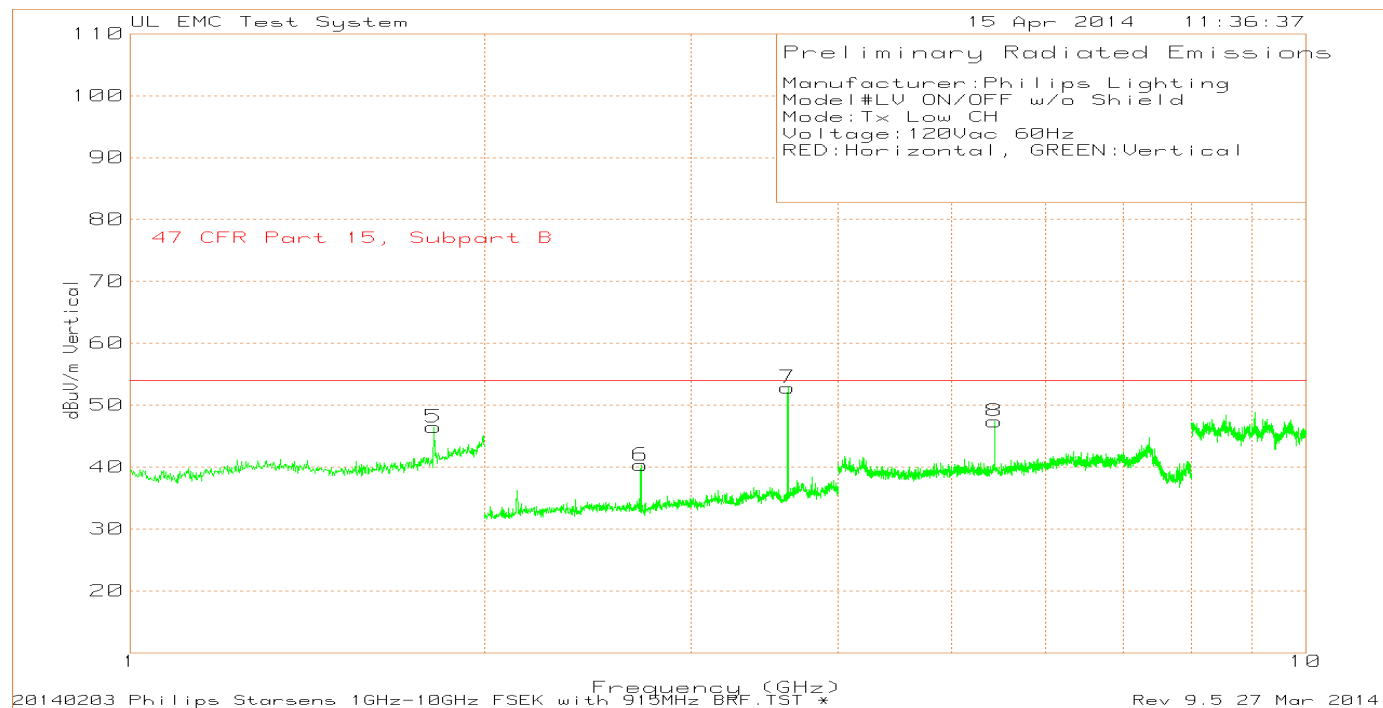


Table 30 Radiated Spurious Emissions above 1GHz, Low Channel

Manufacturer: Philips Lighting												
Model# LV ON/OFF w/o Shield												
Mode: Tx Low CH												
Voltage: 120Vac 60Hz												
RED: Horizontal, GREEN: Vertical												
Trace Markers												
Marker No.	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	1.8136	69.07	PK	30	0.4	-53.54	45.93	54	-8.07	0-360	149	H
2	2.7167	66.16	PK	22.1	-	-50.67	37.59	54	-16.41	0-360	150	H
3	3.6256	68.58	PK	23.3	-	-49.98	41.9	54	-12.1	0-360	150	H
4	5.4347	64.74	PK	28	-	-49.05	43.69	54	-10.31	0-360	150	H
5	1.8116	69.57	PK	30	0.4	-53.53	46.44	54	-7.56	0-360	150	V
6	2.7187	68.85	PK	22.1	-	-50.66	40.29	54	-13.71	0-360	150	V
7	3.6256	79.48	PK	23.3	-	-49.98	52.8	54	-1.2	0-360	150	V
8	5.4367	68.44	PK	28	-	-49.04	47.4	54	-6.6	0-360	150	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	3.6241	82.9	PK	23.3	-	-50.03	56.17	74	-17.83	345	117	V
Level with -12.65dB Duty Cycle Correction							43.52	54	-10.48			
PK - Peak detector												

Figure 28 Radiated Spurious Emissions below 1GHz, Middle Channel

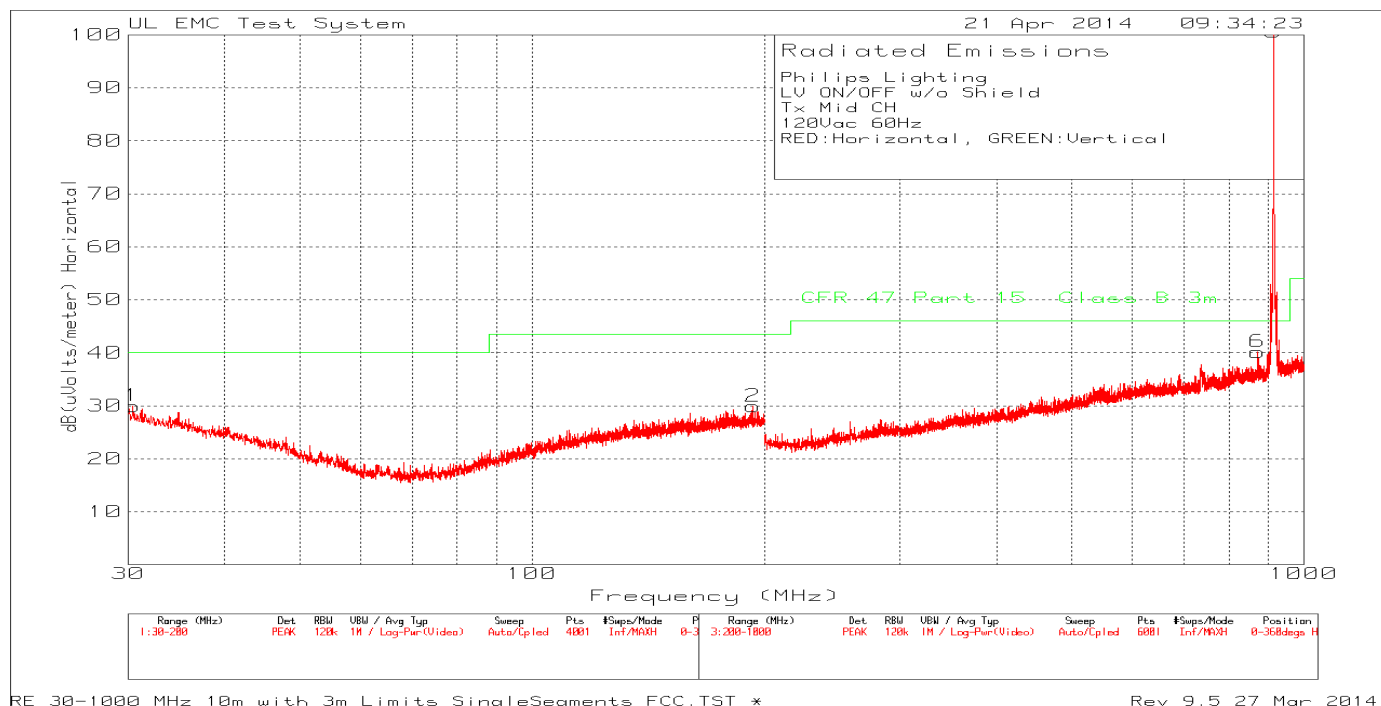
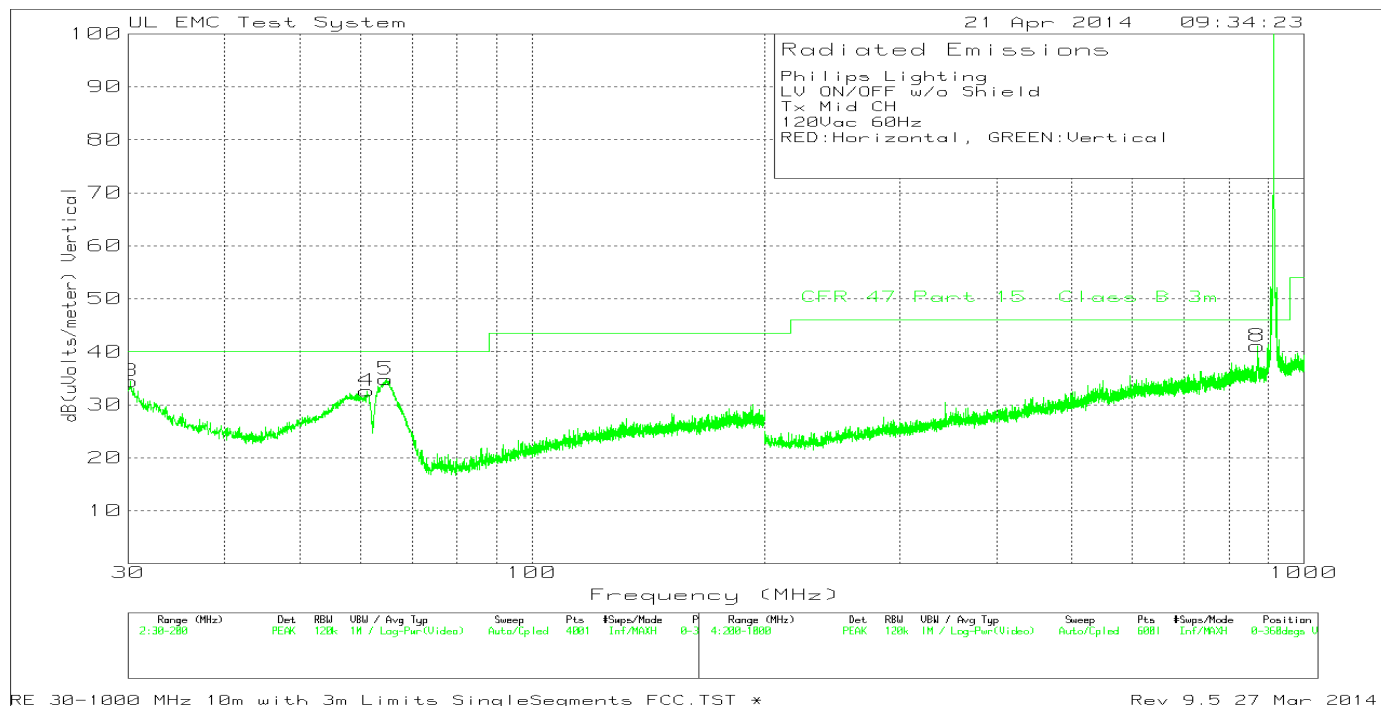


Table 31 Radiated Spurious Emissions below 1GHz, Middle Channel

Philips Lighting												
LV ON/OFF w/o Shield												
Tx Mid CH												
120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 Limit dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	30.3825	31.85	PK	17.7	-30.1	10.5	29.95	40	-10.05	0-360	399	H
2	193.4125	32.3	PK	16	-28.9	10.5	29.9	43.52	-13.62	0-360	99	H
3	30.17	36.25	PK	17.8	-30.1	10.5	34.45	40	-5.55	0-360	99	V
4	61.0675	45.35	PK	6.8	-30	10.5	32.65	40	-7.35	0-360	249	V
5	64.68	48	PK	6.3	-30	10.5	34.8	40	-5.2	0-360	249	V
6	871.7333	31.79	PK	22.5	-24.6	10.5	40.19	46.02	-5.83	0-360	399	H
7	914.1333	91.61	PK	23.1	-24.6	10.5	-	-	-	0-360	100	H
8	870.4	32.57	PK	22.5	-24.5	10.5	41.07	46.02	-4.95	0-360	99	V
9	913.8667	92.89	PK	23.1	-24.6	10.5	-	-	-	0-360	399	V
PK - Peak detector												
Radiated Emission Data												

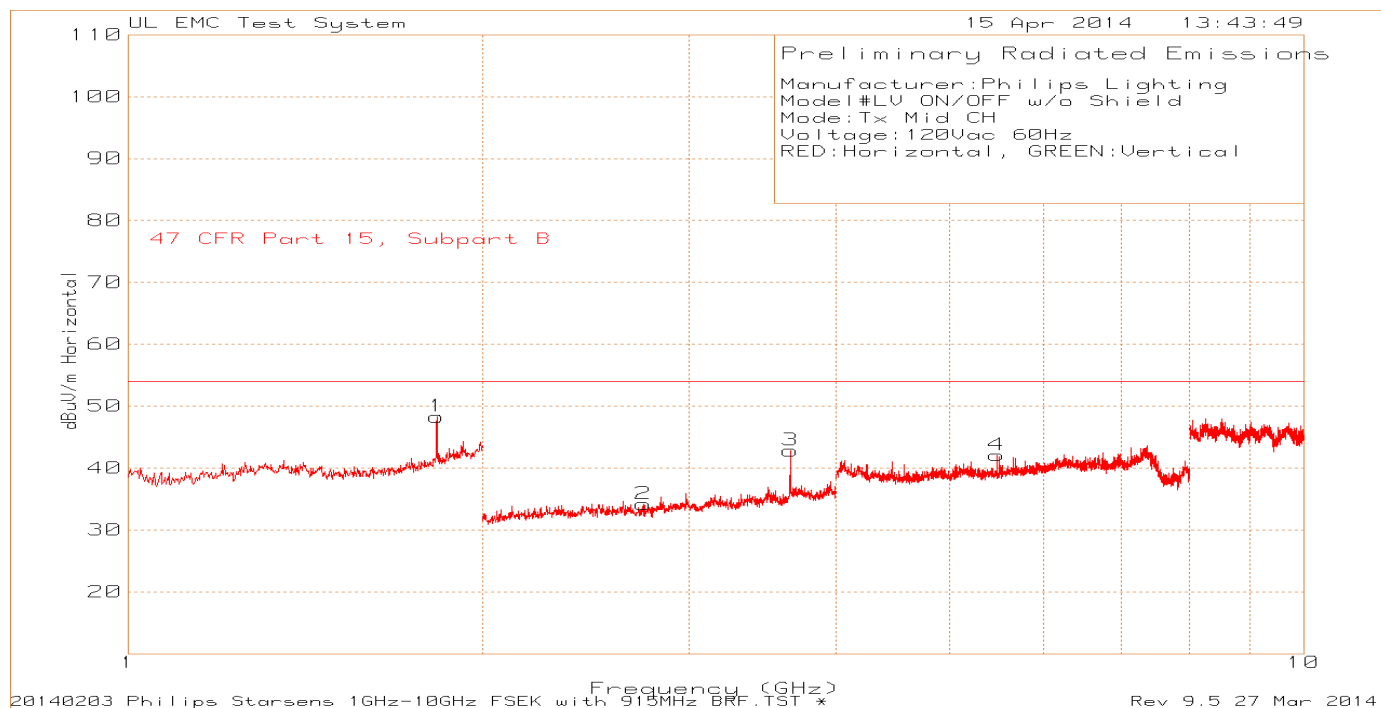
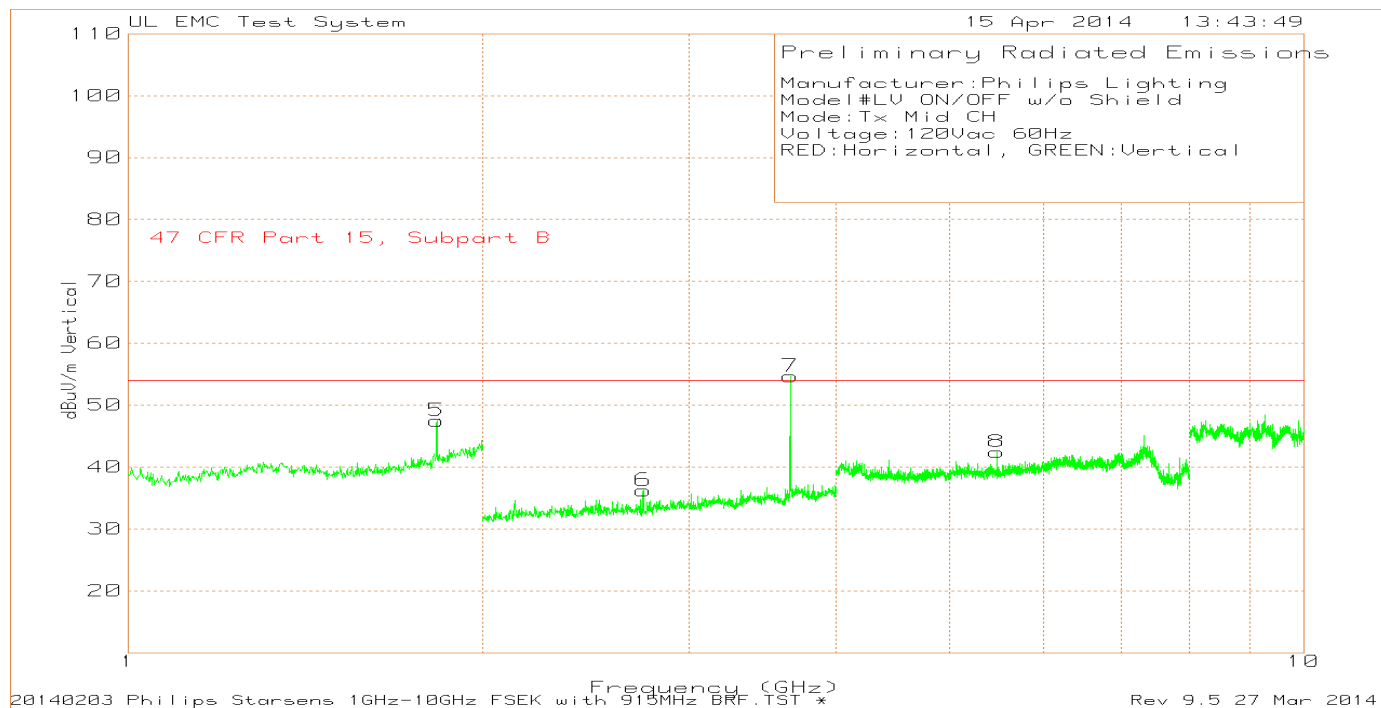
Figure 29 Radiated Spurious Emissions above 1GHz, Middle Channel

Table 32 Radiated Spurious Emissions above 1GHz, Middle Channel

Manufacturer:Philips Lighting												
Model#LV ON/OFF w/o Shield												
Mode:Tx Mid CH												
Voltage:120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
								Limit 47				
	Test	Meter		Antenna				CFR Part				
Marker	Frequency	Reading		Factor	BRF	Gain/Loss	Level	15.209	Margin	Azimuth	Height	
No.	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	dBuV/m	dB	[Deps]	[cm]	Polarity
1	1.8297	71.22	PK	30.2	0.4	-53.52	48.3	54	-5.7	0-360	149	H
2	2.7427	62.77	PK	22.1	0	-50.67	34.2	54	-19.8	0-360	150	H
3	3.6577	68.47	PK	23.4	0	-49.04	42.83	54	-11.17	0-360	150	H
4	5.4847	63.14	PK	28.1	0	-49.17	42.07	54	-11.93	0-360	101	H
5	1.8297	70.38	PK	30.2	0.4	-53.52	47.46	54	-6.54	0-360	150	V
6	2.7427	64.78	PK	22.1	0	-50.67	36.21	54	-17.79	0-360	150	V
7	3.6577	80.28	PK	23.4	0	-49.04	54.64	54	0.64	0-360	150	V
8	5.4847	63.49	PK	28.1	0	-49.17	42.42	54	-11.58	0-360	150	V
PK - Peak detector												
Radiated Emission Data												
								Limit 47				
	Test	Meter		Antenna				CFR Part				
	Frequency	Reading		Factor	BRF	Gain/Loss	Level	15.209	Margin	Azimuth	Height	
	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	dBuV/m	dB	[Deps]	[cm]	Polarity
	3.656	83.91	PK	23.4	0	-49.08	58.23	74	-15.77	168	116	V
		Level with -12.65dB Duty Cycle Correction					45.58	54	-8.42			
PK - Peak detector												

Figure 30 Radiated Spurious Emissions below 1GHz, High Channel

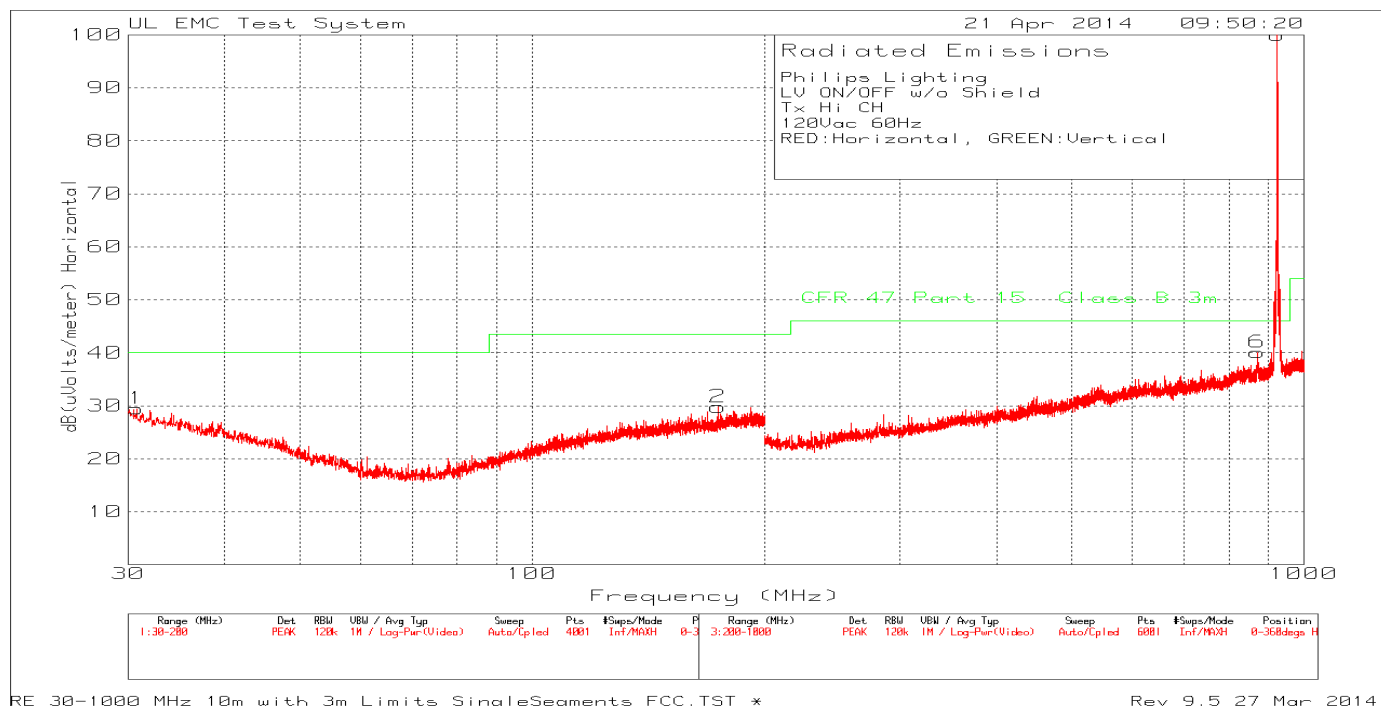
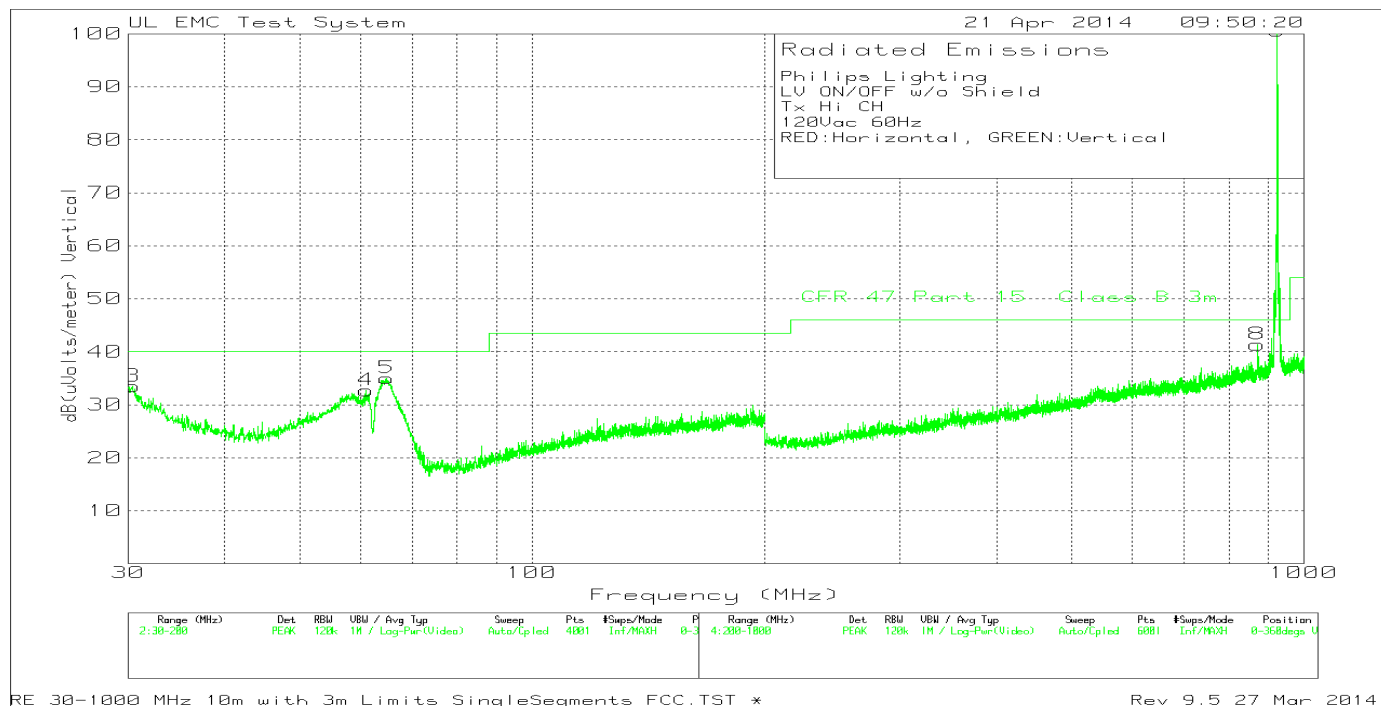


Table 33 Radiated Spurious Emissions below 1GHz, High Channel

Philips Lighting												
LV ON/OFF w/o Shield												
Tx Hi CH												
120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
	Test	Meter		Antenna	Path	10m to		Limit FCC				
Marker	Frequency	Reading		Factor	Factor	3m	Level	15.209				
No.	MHz	dBuV	Detector	dB/m	dB	Factor	dBuV/m	Limit	Margin	Azimuth	Height	Polarity
	1	30.7225	31.56	PK	17.5	-30.1	10.5	29.46	40	-10.54	0-360	99 H
	2	174.33	33.07	PK	15.5	-29.3	10.5	29.77	43.52	-13.75	0-360	249 H
	3	30.34	35.38	PK	17.7	-30.1	10.5	33.48	40	-6.52	0-360	99 V
	4	60.9825	45.43	PK	6.8	-30	10.5	32.73	40	-7.27	0-360	249 V
	5	64.85	48.22	PK	6.3	-30	10.5	35.02	40	-4.98	0-360	249 V
	6	870.4	31.58	PK	22.5	-24.5	10.5	40.08	46.02	-5.94	0-360	199 H
	7	924.1333	91.37	PK	22.8	-24.7	10.5	99.97	46.02	53.95	0-360	299 H
	8	870.8	32.88	PK	22.5	-24.5	10.5	41.38	46.02	-4.64	0-360	399 V
	9	923.8667	91.99	PK	22.8	-24.7	10.5	100.59	46.02	54.57	0-360	199 V
PK - Peak detector												
Radiated Emission Data												
	Test	Meter		Antenna	Path	10m to		Limit FCC				
	Frequency	Reading		Factor	Factor	3m	Level	15.209				
	MHz	dBuV	Detector	dB/m	dB	Factor	dBuV/m	Limit	Margin	Azimuth	Height	Polarity
	64.898077	44.24	QP	6.3	-30	10.5	31.04	40	-8.96	5	231	V
QP - Quasi-Peak detector												

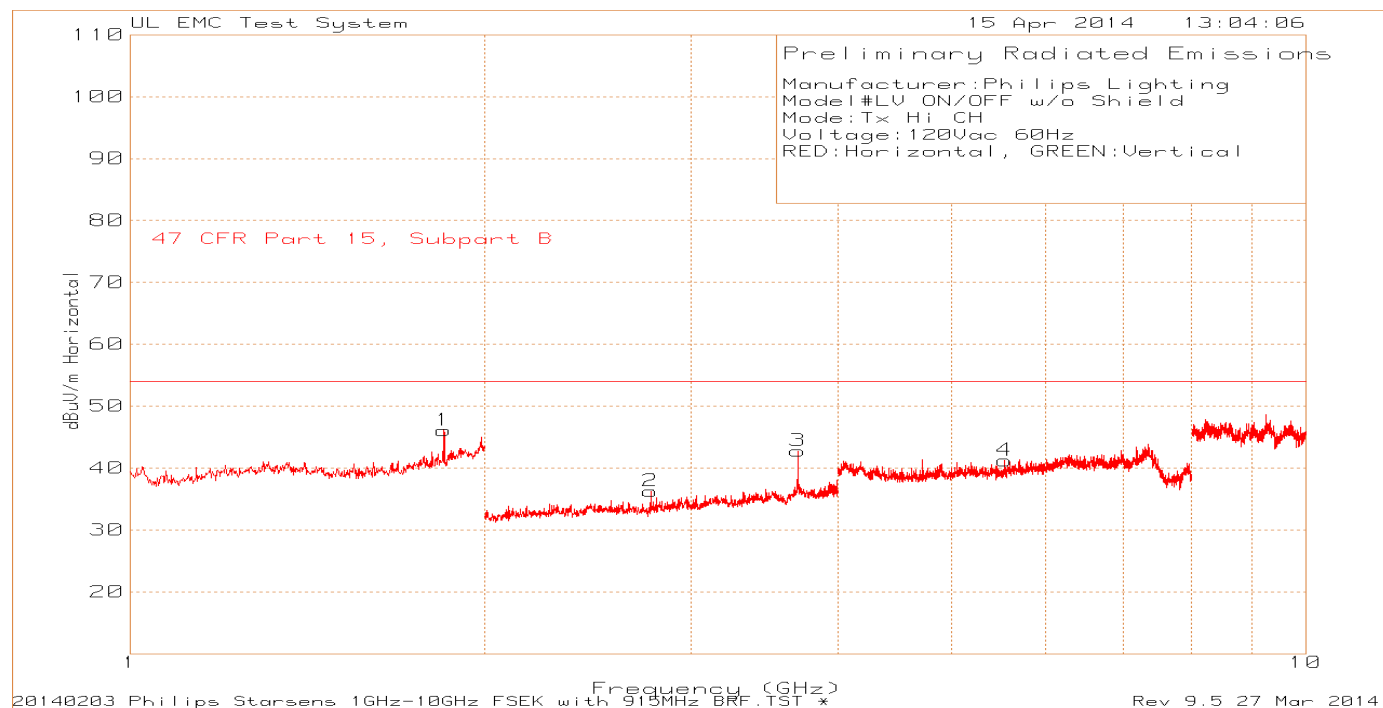
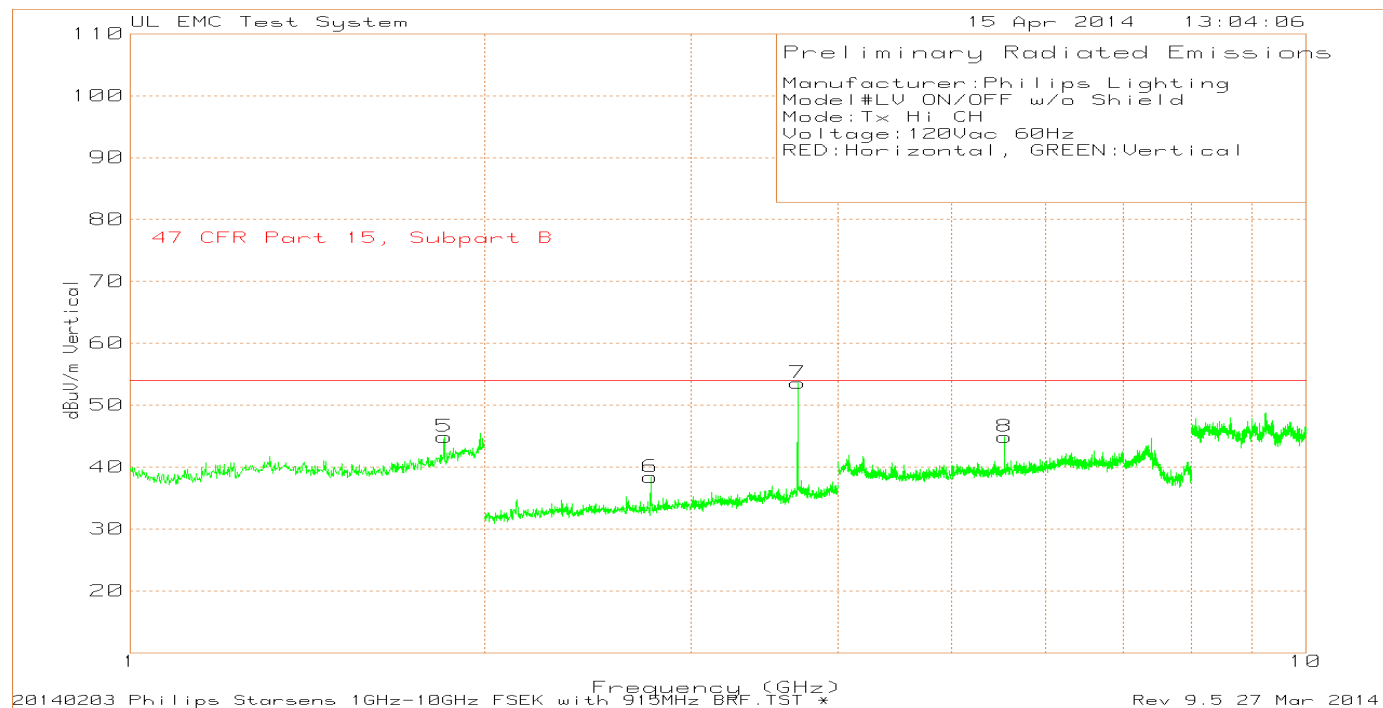
Figure 31 Radiated Spurious Emissions above 1GHz, High Channel

Table 34 Radiated Spurious Emissions above 1GHz, High Channel

Manufacturer:Philips Lighting												
Model#LV ON/OFF w/o Shield												
Mode:Tx Hi CH												
Voltage:120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency GHz	Meter Reading dBuV		Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Deps]	Height [cm]	
			Detector									Polarity
	1	1.8477	68.72	PK	30.5	0.3	-53.44	46.08	54	-7.92	0-360	149 H
	2	2.7708	64.63	PK	22.2	-	-50.57	36.26	54	-17.74	0-360	150 H
	3	3.6977	68.03	PK	23.5	-	-48.77	42.76	54	-11.24	0-360	150 H
	4	5.5448	62.39	PK	28.3	-	-49.47	41.22	54	-12.78	0-360	150 H
	5	1.8497	67.5	PK	30.5	0.3	-53.42	44.88	54	-9.12	0-360	150 V
	6	2.7708	66.75	PK	22.2	-	-50.57	38.38	54	-15.62	0-360	150 V
	7	3.6977	78.85	PK	23.5	-	-48.77	53.58	54	-0.42	0-360	150 V
	8	5.5448	66.06	PK	28.3	-	-49.47	44.89	54	-9.11	0-360	150 V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency GHz	Meter Reading dBuV		Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Deps]	Height [cm]	
			Detector									Polarity
	3.6961	82.51	PK	23.5	-	-48.76	57.25	74	-16.75	161	116	V
		Level with -12.65dB Duty Cycle Correction					44.6	54	-9.4			
PK - Peak detector												

4.3.2 Low Voltage On/Off (277V/60Hz)

Figure 32 Radiated Spurious Emissions below 1GHz, Middle Channel

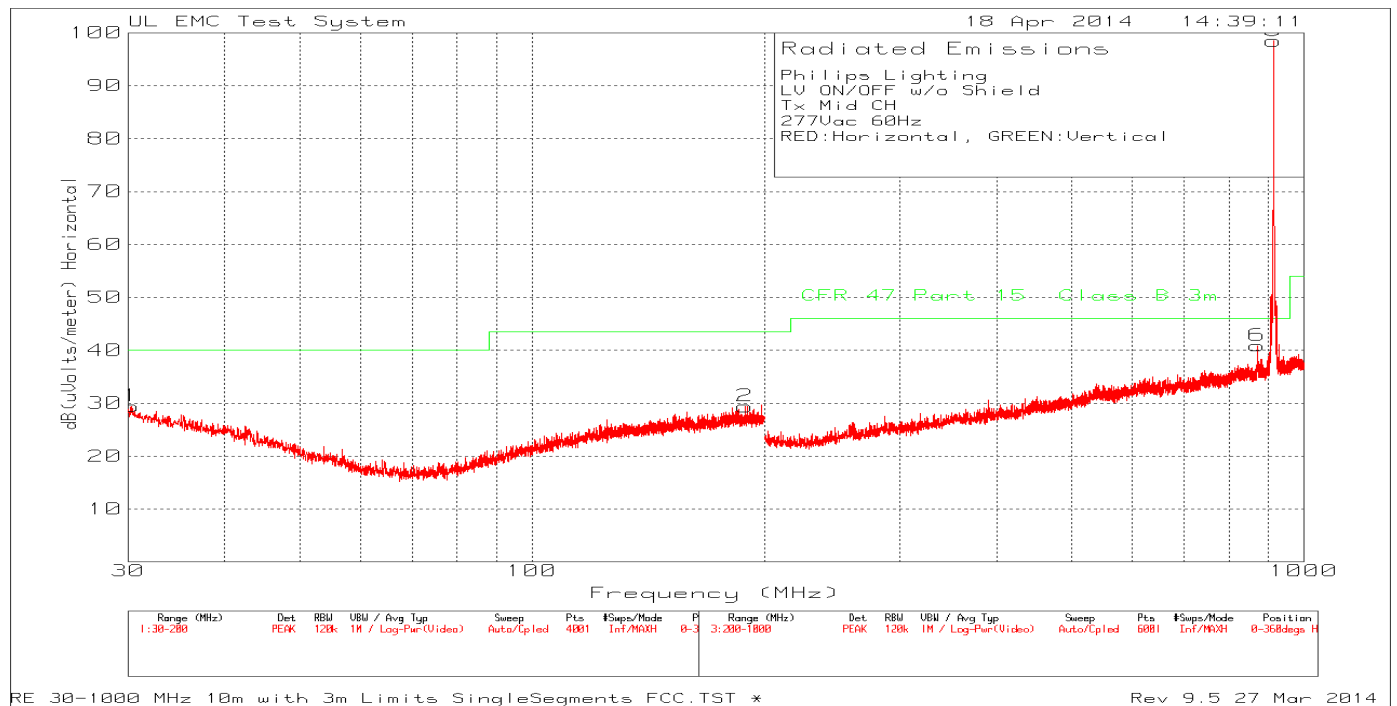
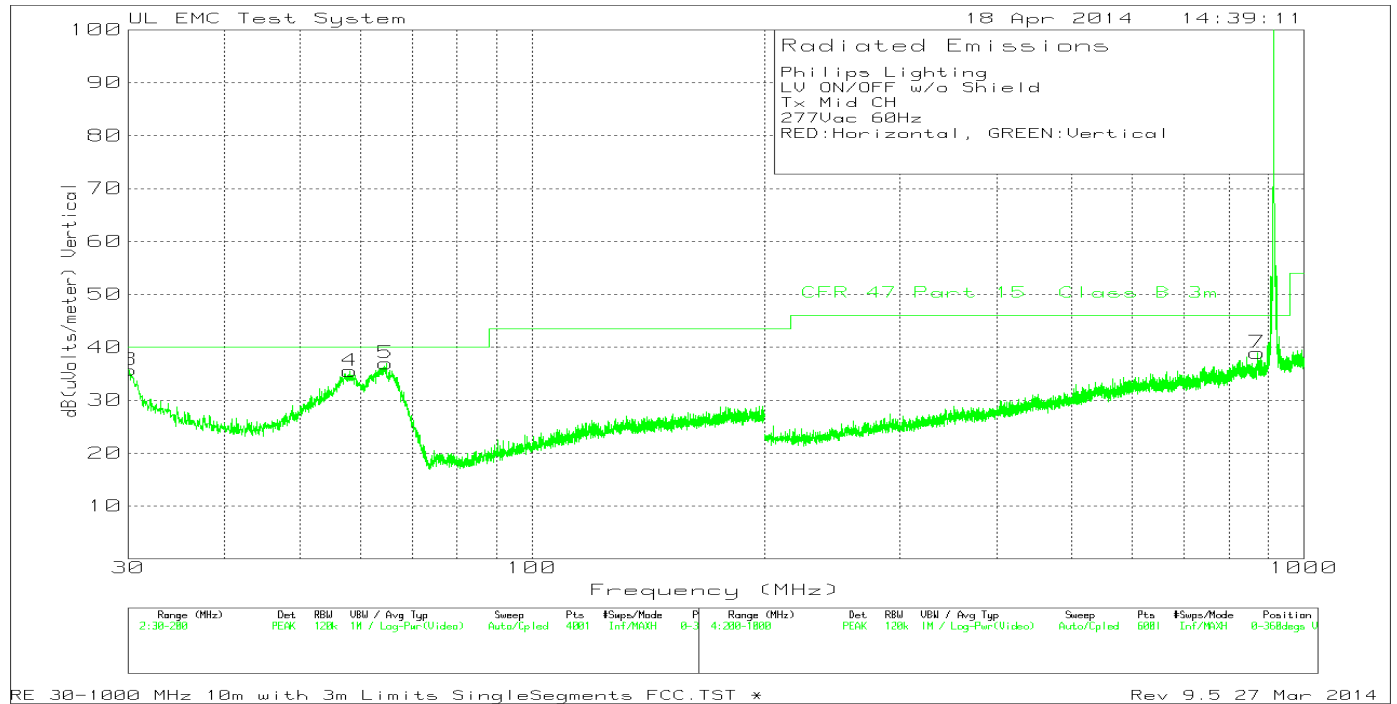


Table 35 Radiated Spurious Emissions below 1GHz, Middle Channel

Philips Lighting												
LV ON/OFF w/o Shield												
Tx Mid CH												
277Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity	
1	30.2975	31.34	PK	17.7	-30.1	10.5	29.44	40	-10.56	0-360	102	H
2	188.78	32.12	PK	15.9	-29.1	10.5	29.42	43.52	-14.1	0-360	249	H
3	30.0425	37.42	PK	17.9	-30.1	10.5	35.72	40	-4.28	0-360	249	V
4	58.0925	47.84	PK	7.3	-30.1	10.5	35.54	40	-4.46	0-360	249	V
5	64.68	50.2	PK	6.3	-30	10.5	37	40	-3	0-360	249	V
6	870.2667	32.4	PK	22.5	-24.5	10.5	40.9	46.02	-5.12	0-360	99	H
8	914.1333	89.48	PK	23.1	-24.6	10.5	98.48	46.02	52.46	0-360	99	H
7	870.8	30.48	PK	22.5	-24.5	10.5	38.98	46.02	-7.04	0-360	299	V
9	914.2667	94.14	PK	23.1	-24.6	10.5	103.14	46.02	57.12	0-360	200	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency MHz	Meter Reading dBuV	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity	
	64.582244	46.03	QP	6.3	-30	10.5	32.83	40	-7.17	293	248	V
	57.925833	43.26	QP	7.3	-30.1	10.5	30.96	40	-9.04	0	249	V
	30.047372	33.75	QP	17.9	-30.1	10.5	32.05	40	-7.95	344	100	V
QP - Quasi-Peak detector												

4.3.3 Low Voltage Dimming (120V/60Hz)

Figure 33 Radiated Spurious Emissions below 1GHz, Low Channel

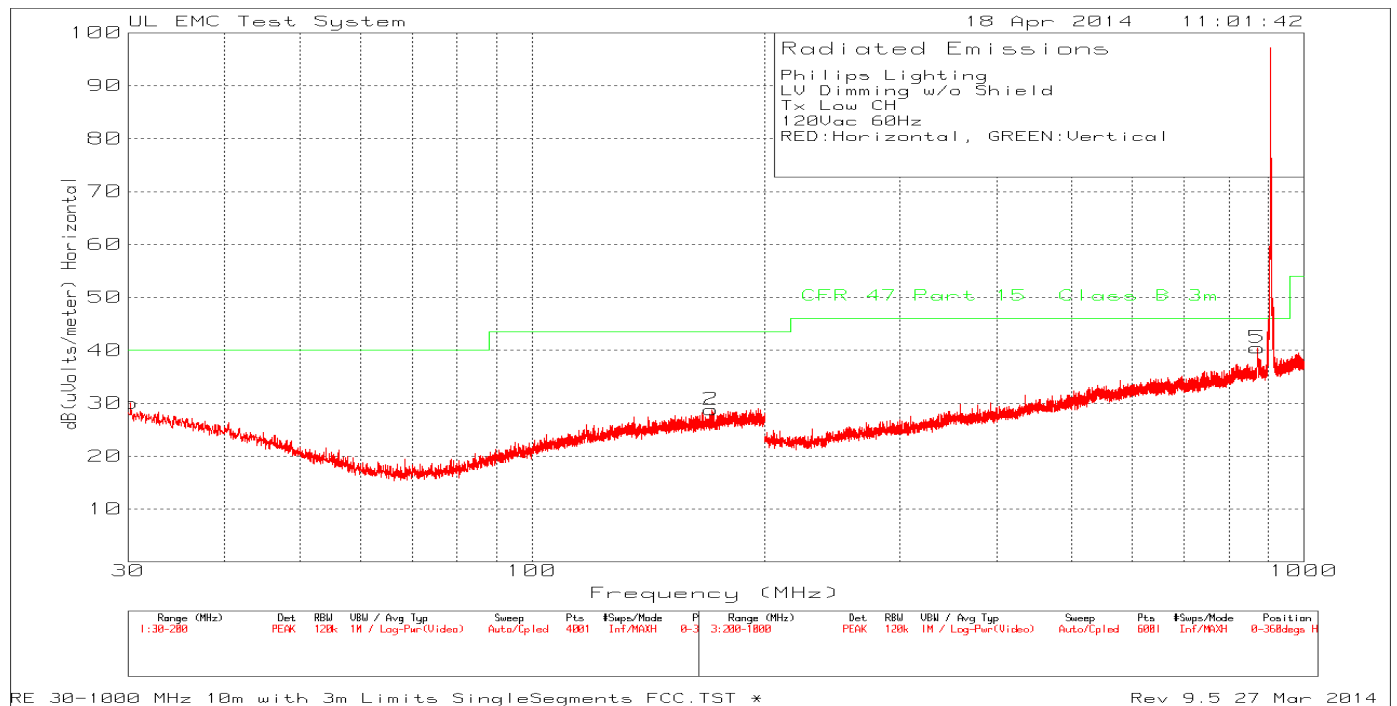
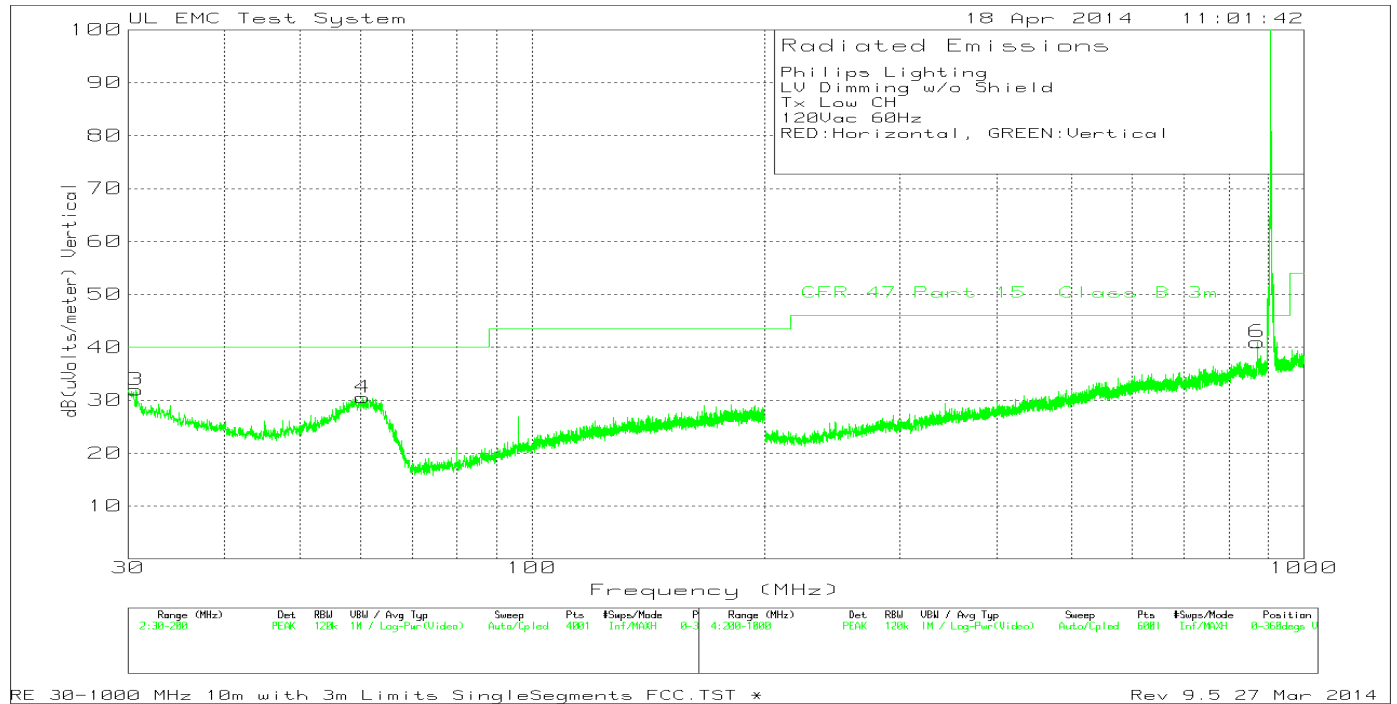


Table 36 Radiated Spurious Emissions below 1GHz, Low Channel

Philips Lighting													
LV Dimming w/o Shield													
Tx Low CH													
120Vac 60Hz													
RED:Horizontal, GREEN:Vertical													
Trace Markers													
	Test	Meter		Antenna	Path Factor	10m to 3m	Level	Limit FCC					
	Frequency	Reading						15.209			Azimuth		
Marker No.	MHz	dBuV	Detector	Factor dB/m	dB	Factor dB	dBuV/m	dBuV/m	Margin dB	[Degs]	Height [cm]	Polarity	
1	30.17	31.87	PK	17.8	-30.1	10.5	30.07	40	-9.93	0-360	99	H	
2 *	170.76	32.41	PK	15.3	-29.4	10.5	28.81	43.52	-14.71	0-360	99	H	
3	30.68	34.06	PK	17.5	-30.1	10.5	31.96	40	-8.04	0-360	99	V	
4	60.3875	43.23	PK	6.8	-30	10.5	30.53	40	-9.47	0-360	249	V	
5	870.8	31.97	PK	22.5	-24.5	10.5	40.47	46.02	-5.55	0-360	200	H	
6	870.6667	32.48	PK	22.5	-24.5	10.5	40.98	46.02	-5.04	0-360	99	V	
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band													
PK - Peak detector													

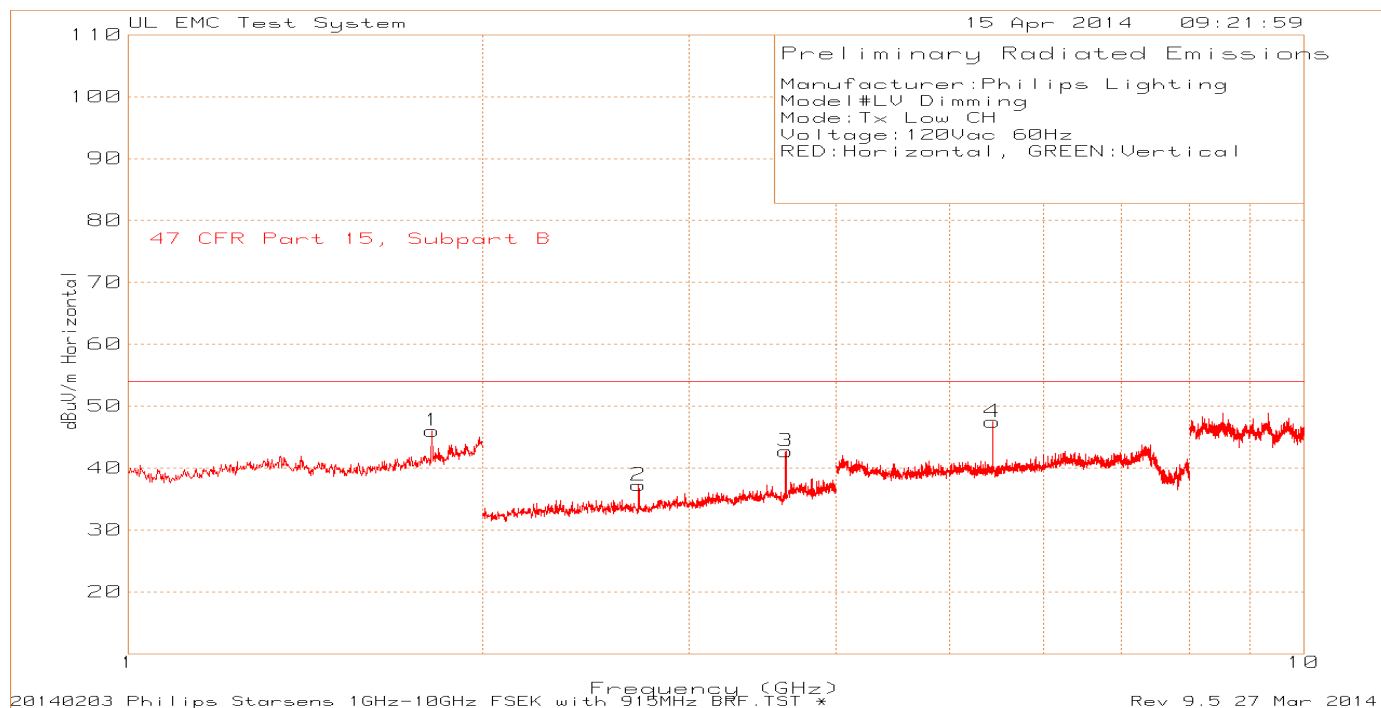
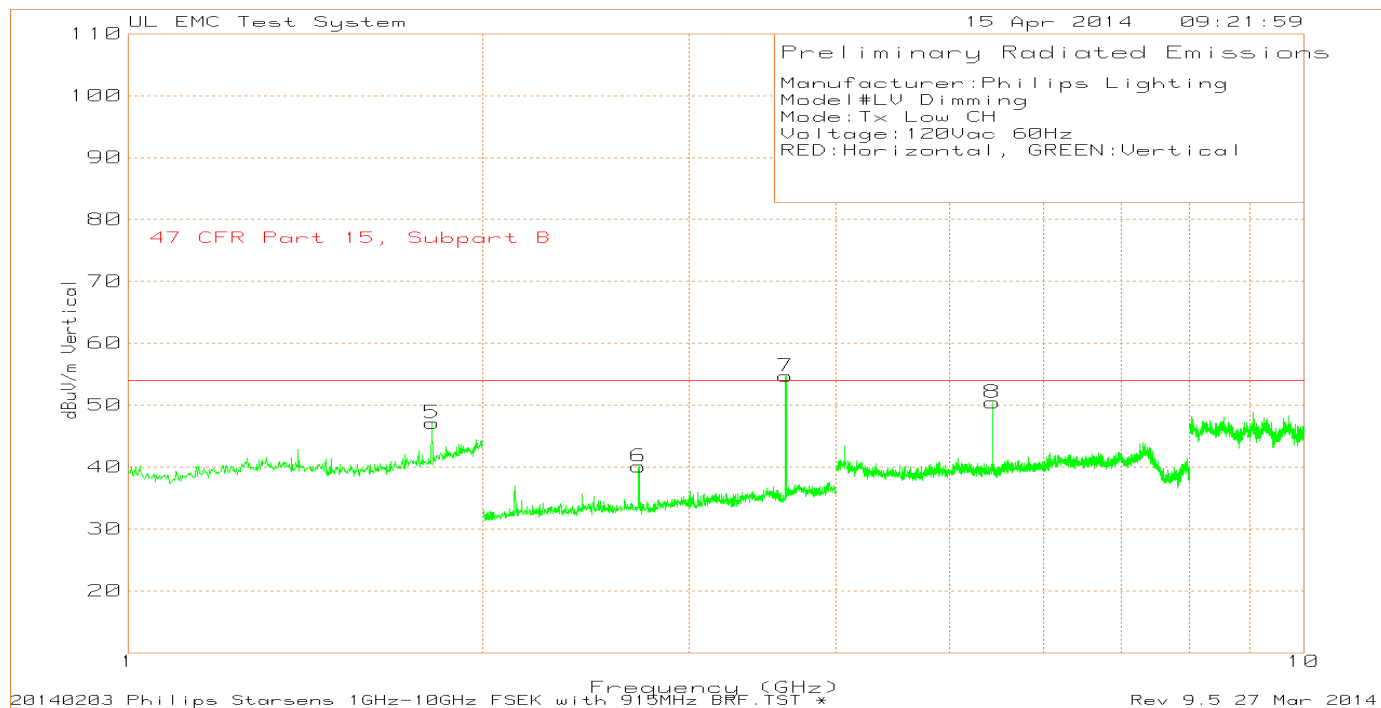
Figure 34 Radiated Spurious Emissions above 1GHz, Low Channel

Table 37 Radiated Spurious Emissions above 1GHz, Low Channel

Manufacturer:Philips Lighting												
Model#LV Dimming												
Mode:Tx Low CH												
Voltage:120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
	Test	Meter		Antenna				Limit 47				
Marker	Frequency	Reading		Factor	BRF	Gain/Loss	Level	15.209	Margin	Azimuth	Height	
No.	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	dBuV/m	dB	[Degs]	[cm]	Polarity
1	1.8136	69.18	PK	30	0.4	-53.54	46.04	54	-7.96	0-360	149	H
2	2.7167	65.78	PK	22.1		-50.67	37.21	54	-16.79	0-360	150	H
3	3.6256	69.4	PK	23.3		-49.98	42.72	54	-11.28	0-360	150	H
4	5.4367	68.51	PK	28		-49.04	47.47	54	-6.53	0-360	150	H
5	1.8136	70.25	PK	30	0.4	-53.54	47.11	54	-6.89	0-360	150	V
6	2.7187	68.68	PK	22.1		-50.66	40.12	54	-13.88	0-360	150	V
7	3.6256	81.39	PK	23.3		-49.98	54.71	54	0.71	0-360	150	V
8	5.4367	71.46	PK	28		-49.04	50.42	54	-3.58	0-360	150	V
PK - Peak detector												
Radiated Emission Data												
	Test	Meter		Antenna				Limit 47				
	Frequency	Reading		Factor	BRF	Gain/Loss	Level	15.209	Margin	Azimuth	Height	
	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	dBuV/m	dB	[Degs]	[cm]	Polarity
	3.6239	85.01	PK	23.3		-50.03	58.28	74	-15.72	11	117	V
		Level with -12.65dB Duty Cycle Correction					45.63	54	-8.37			
PK - Peak detector												

Figure 35 Radiated Spurious Emissions below 1GHz, Middle Channel

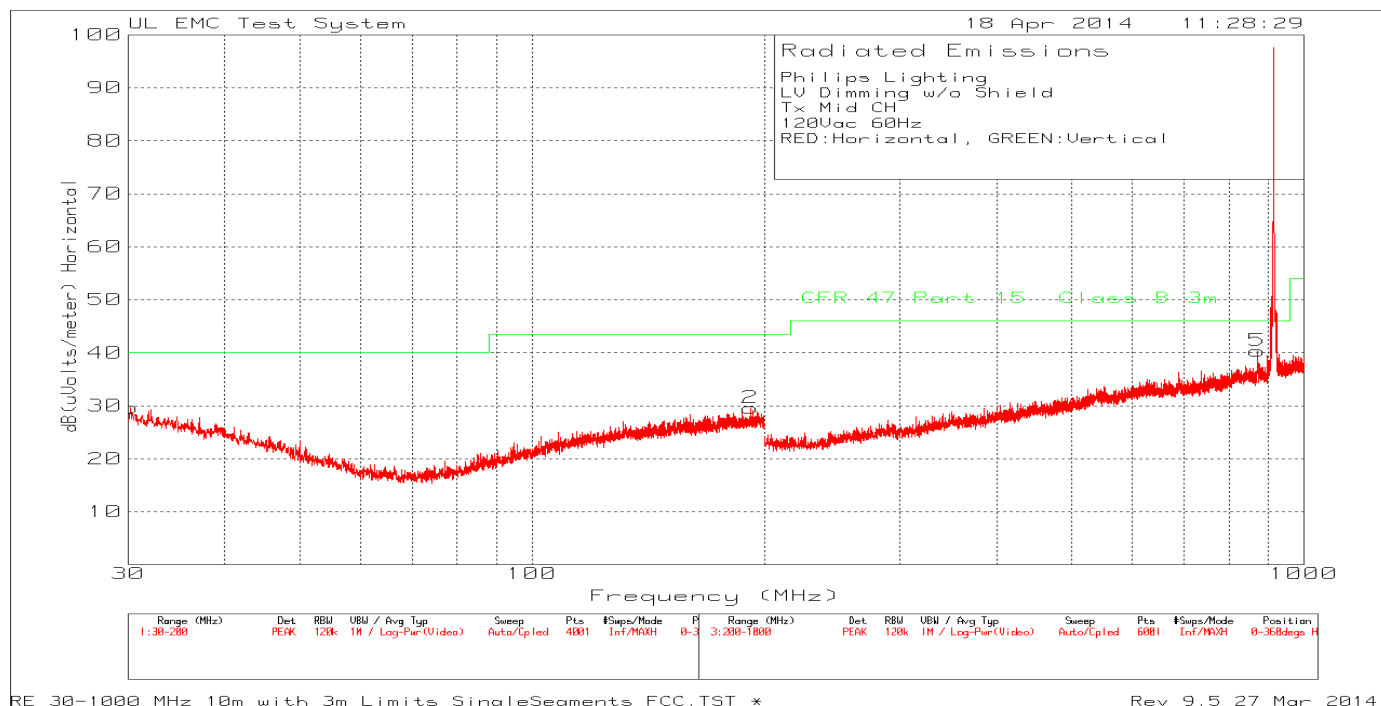
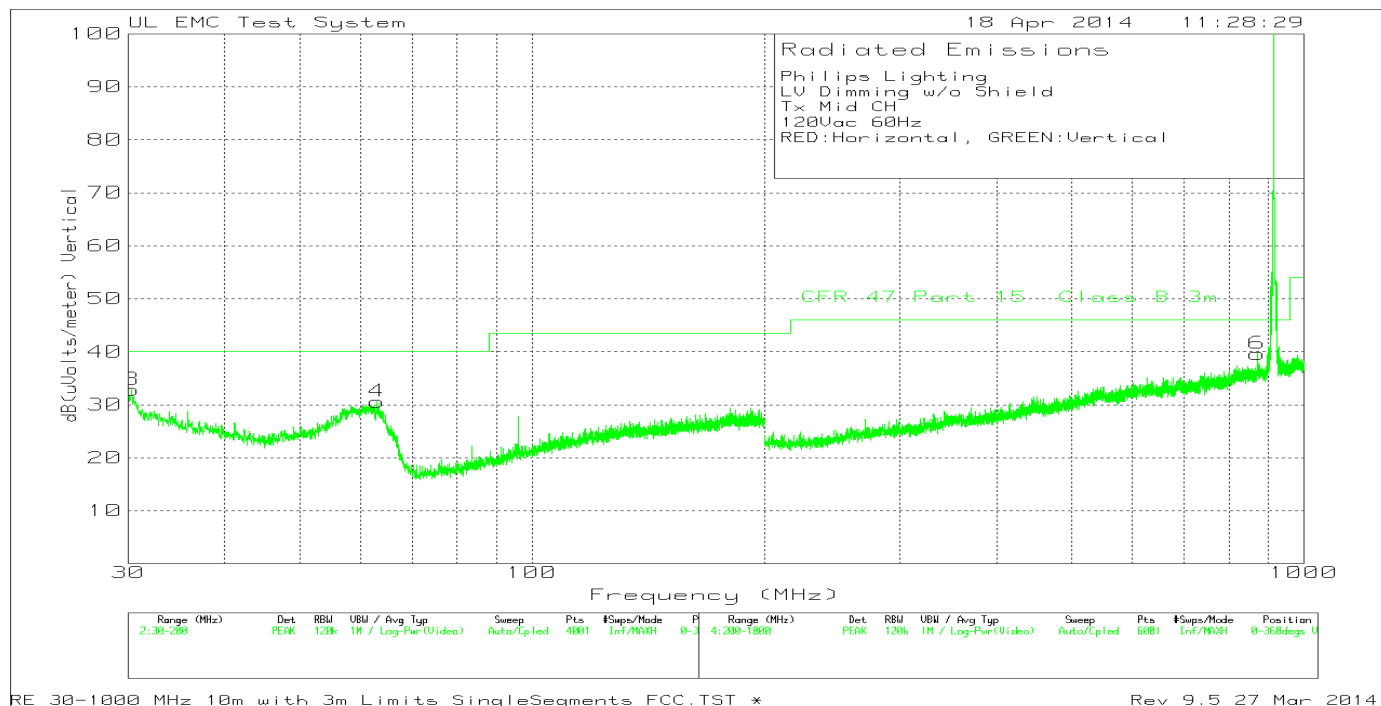
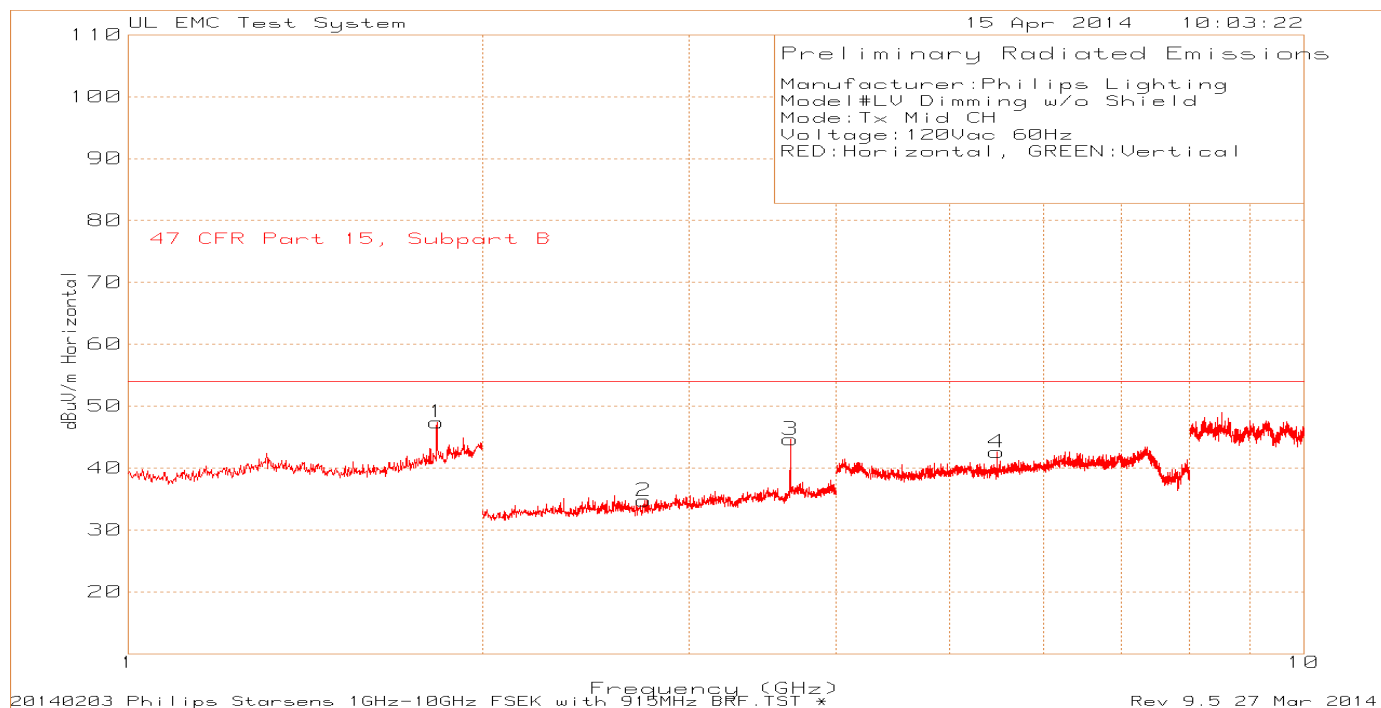
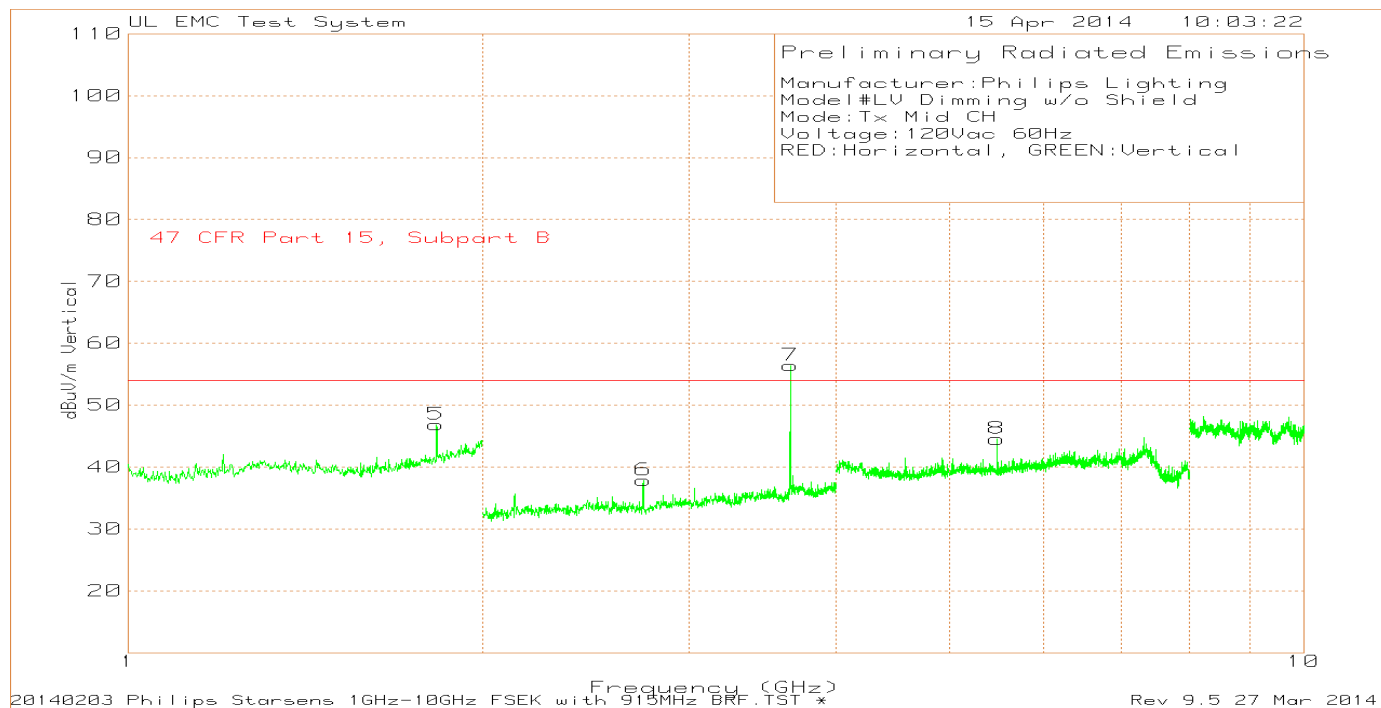


Table 38 Radiated Spurious Emissions below 1GHz, Middle Channel

Philips Lighting												
LV Dimming w/o Shield												
Tx Mid CH												
120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	30.17	31.49	PK	17.8	-30.1	10.5	29.69	40	-10.31	0-360	99	H
2	192.095	31.9	PK	16.1	-28.9	10.5	29.6	43.52	-13.92	0-360	99	H
3	30.2975	34.71	PK	17.7	-30.1	10.5	32.81	40	-7.19	0-360	99	V
4	62.98	43.6	PK	6.5	-30	10.5	30.6	40	-9.4	0-360	249	V
5	870.9333	31.85	PK	22.5	-24.5	10.5	40.35	46.02	-5.67	0-360	299	H
6	870.1333	31.13	PK	22.5	-24.5	10.5	39.63	46.02	-6.39	0-360	299	V
PK - Peak detector												

Figure 36 Radiated Spurious Emissions above 1GHz, Middle Channel

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 39 Radiated Spurious Emissions above 1GHz, Middle Channel

Manufacturer: Philips Lighting

Model#: LV Dimming w/o Shield

Mode: Tx Mid CH

Voltage: 120Vac 60Hz

RED: Horizontal, GREEN: Vertical

Trace Markers

Marker No.	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	47 CFR Part 15.209		Azimuth [Degs]	Height [cm]	Polarity
								dBuV/m	Margin dB			
1	1.8297	70.32	PK	30.2	0.4	-53.52	47.4	54	-6.6	0-360	117	H
2	2.7467	63.29	PK	22.1		-50.66	34.73	54	-19.27	0-360	150	H
3	3.6577	70.25	PK	23.4		-49.04	44.61	54	-9.39	0-360	150	H
4	5.4847	63.64	PK	28.1		-49.17	42.57	54	-11.43	0-360	150	H
5	1.8277	69.8	PK	30.2	0.4	-53.53	46.87	54	-7.13	0-360	150	V
6	2.7427	66.43	PK	22.1		-50.67	37.86	54	-16.14	0-360	150	V
7	3.6577	82.06	PK	23.4		-49.04	56.42	54	2.42	0-360	150	V
8	5.4847	65.62	PK	28.1		-49.17	44.55	54	-9.45	0-360	150	V

PK - Peak detector

Radiated Emission Data

Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	47 CFR Part 15.209		Azimuth [Degs]	Height [cm]	Polarity
							dBuV/m	Margin dB			
3.6557	86.06	PK	23.4		-49.08	60.38	74	-13.62	5	116	V
PK - Peak detector						Level with -12.65dB Duty Cycle Correction	47.73	54	-6.27		

Figure 37 Radiated Spurious Emissions below 1GHz, High Channel

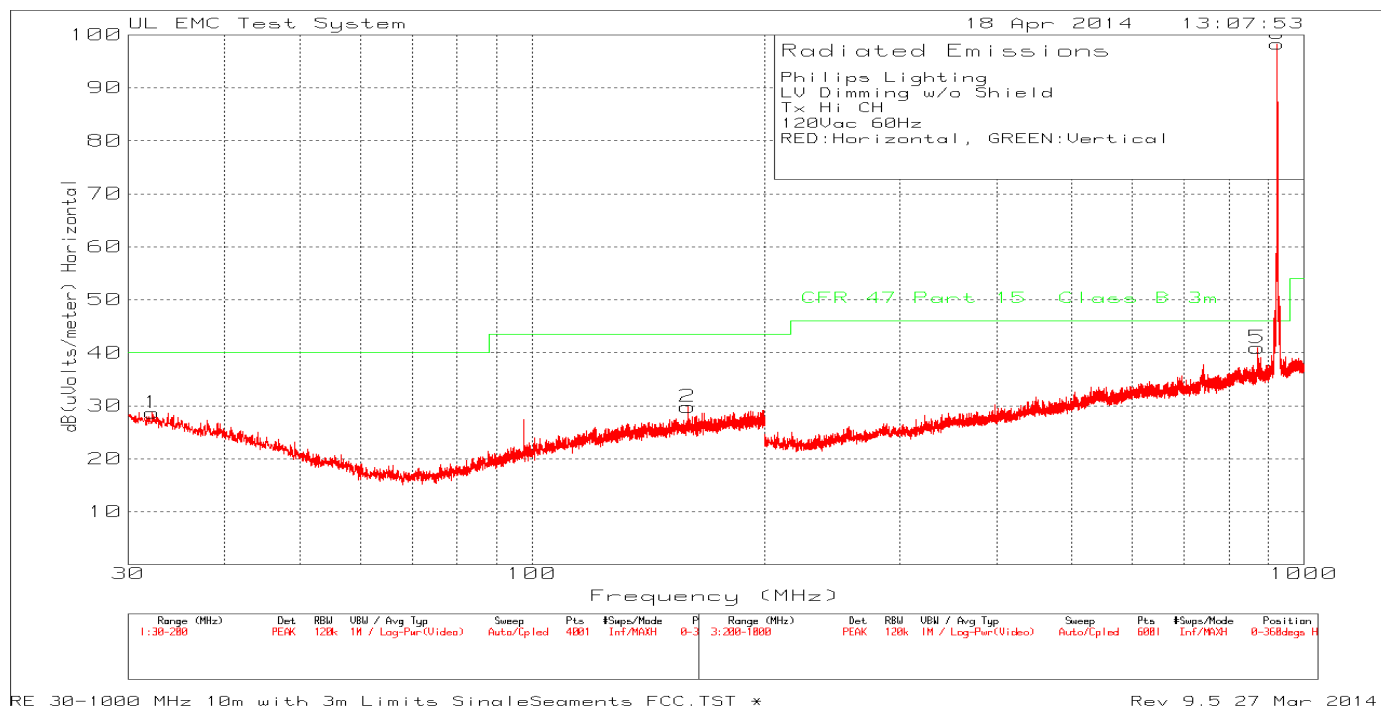
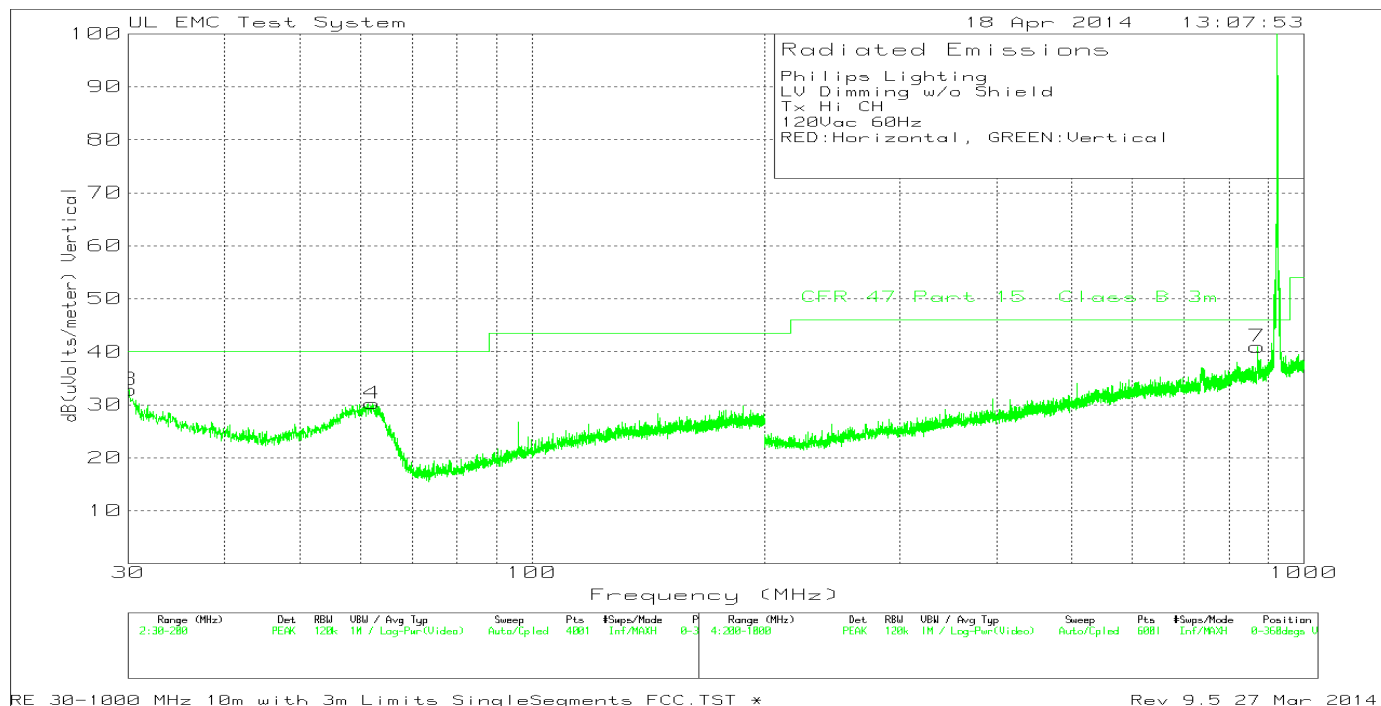


Table 40 Radiated Spurious Emissions below 1GHz, High Channel

Philips Lighting												
LV Dimming w/o Shield												
Tx Hi CH												
120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	32.21	31.38	PK	16.9	-30.1	10.5	28.68	40	-11.32	0-360	99	H
2	159.1575	33.83	PK	15.1	-29.6	10.5	29.83	43.52	-13.69	0-360	249	H
3	30.0425	34.51	PK	17.9	-30.1	10.5	32.81	40	-7.19	0-360	249	V
4	62.13	43.16	PK	6.5	-29.9	10.5	30.26	40	-9.74	0-360	249	V
5	871.2	32.54	PK	22.5	-24.6	10.5	40.94	46.02	-5.08	0-360	399	H
6	924.1333	89.7	PK	22.8	-24.7	10.5	98.3	46.02	52.28	0-360	299	H
7	870.2667	32.46	PK	22.5	-24.5	10.5	40.96	46.02	-5.06	0-360	399	V
8	924.1333	94.59	PK	22.8	-24.7	10.5	103.19	46.02	57.17	0-360	199	V
PK - Peak detector												

Figure 38 Radiated Spurious Emissions above 1GHz, High Channel

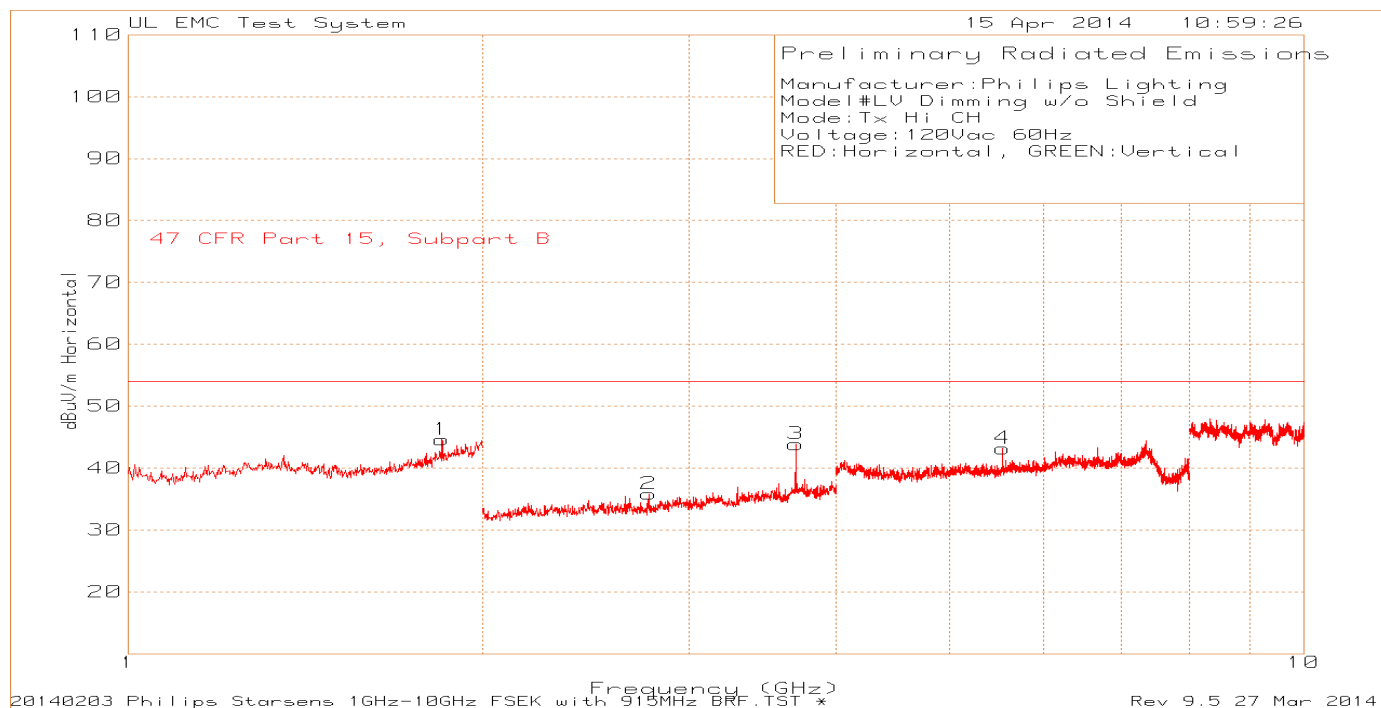
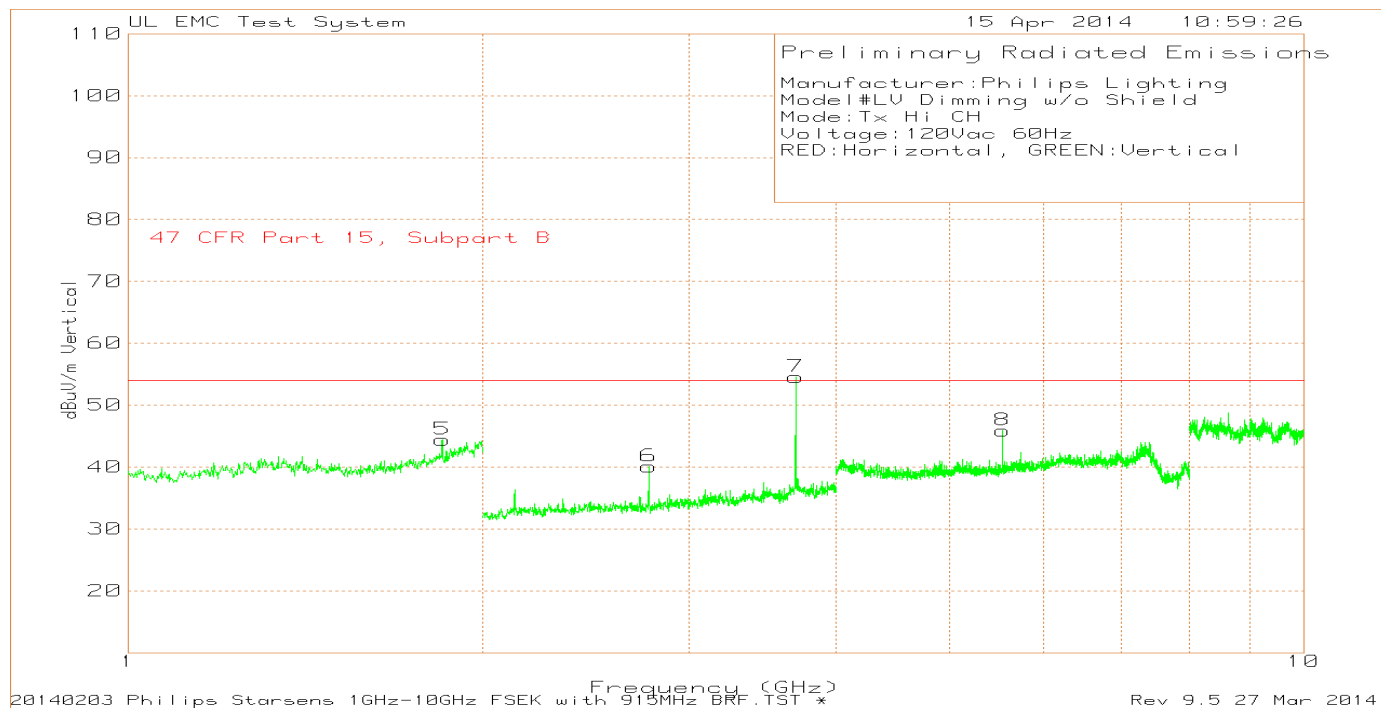


Table 41 Radiated Spurious Emissions above 1GHz, High Channel

Manufacturer:Philips Lighting												
Model#LV Dimming w/o Shield												
Mode:Tx Hi CH												
Voltage:120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
								Limit 47				
								CFR Part				
Marker	Test	Meter		Antenna				15.209				
No.	Frequency	Reading		Factor	BRF	Gain/Loss	Level	dBuV/m	Margin	Azimuth	Height	Polarity
	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	dBuV/m	dB	[Degs]	[cm]	
1	1.8477	67.24	PK	30.5	0.3	-53.44	44.6	54	-9.4	0-360	149	H
2	2.7728	64.2	PK	22.2		-50.57	35.83	54	-18.17	0-360	150	H
3	3.6977	69.13	PK	23.5		-48.77	43.86	54	-10.14	0-360	150	H
4	5.5448	64.32	PK	28.3		-49.47	43.15	54	-10.85	0-360	150	H
5	1.8497	67.04	PK	30.5	0.3	-53.42	44.42	54	-9.58	0-360	150	V
6	2.7728	68.46	PK	22.2		-50.57	40.09	54	-13.91	0-360	150	V
7	3.6977	79.83	PK	23.5		-48.77	54.56	54	0.56	0-360	150	V
8	5.5448	67.09	PK	28.3		-49.47	45.92	54	-8.08	0-360	150	V
PK - Peak detector												
Radiated Emission Data												
								Limit 47				
								CFR Part				
	Test	Meter		Antenna				15.209				
	Frequency	Reading		Factor	BRF	Gain/Loss	Level	dBuV/m	Margin	Azimuth	Height	Polarity
	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	dBuV/m	dB	[Degs]	[cm]	
	3.6959	83.96	PK	23.5		-48.76	58.7	74	-15.3	357	116	V
		Level with -12.65dB Duty Cycle Correction					46.05	54	-7.95			
PK - Peak detector												

4.3.4 Low Voltage Dimming (277V/60Hz)

Figure 39 Radiated Spurious Emissions below 1GHz, Middle Channel

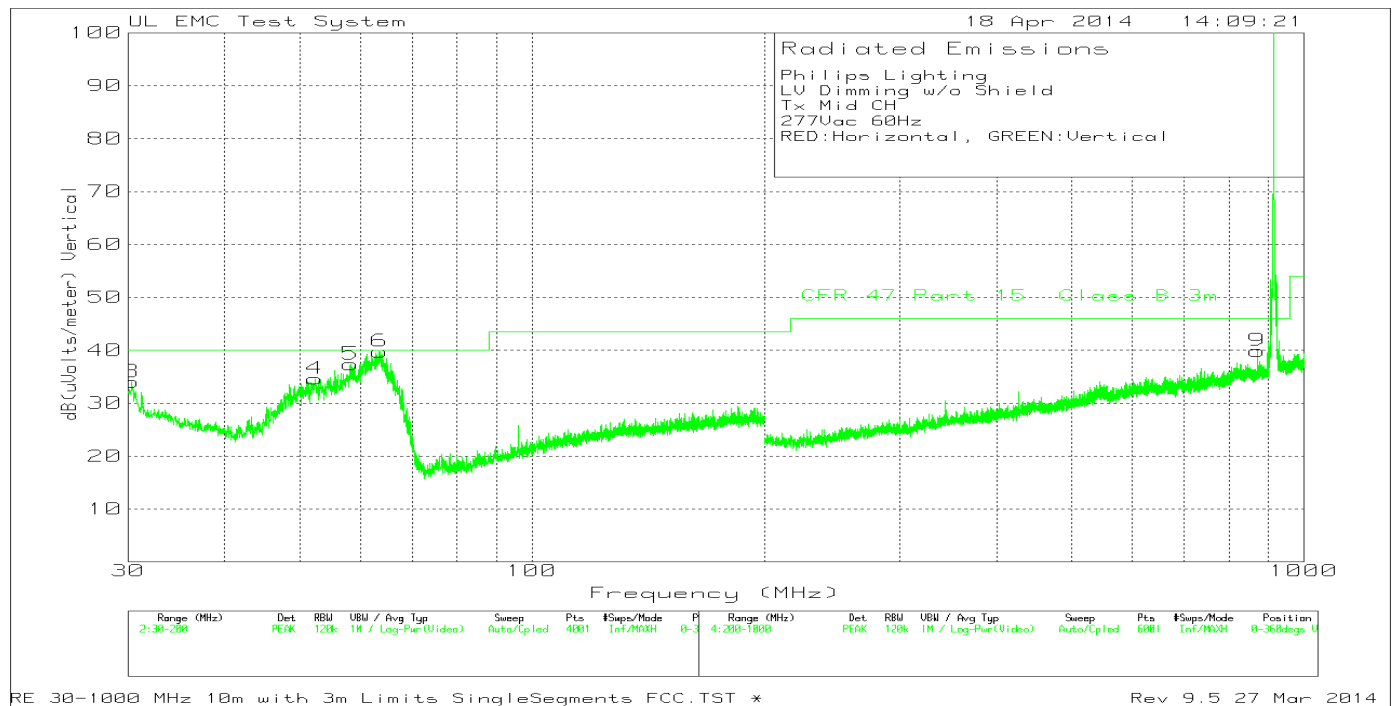
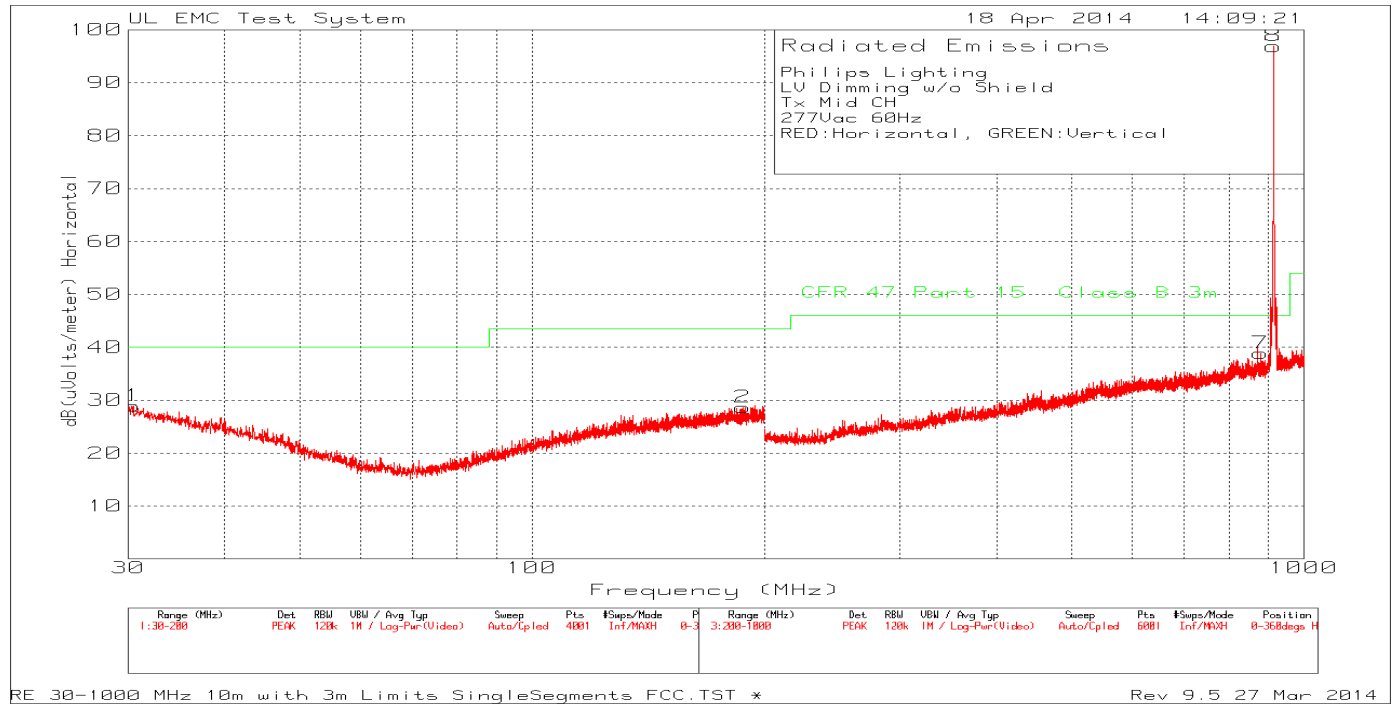


Table 42 Radiated Spurious Emissions below 1GHz, Middle Channel

Philips Lighting												
LV Dimming w/o Shield												
Tx Mid CH												
277Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	30.425	30.93	PK	17.6	-30.1	10.5	28.93	40	-11.07	0-360	399	H
2	187.8025	31.26	PK	16	-29.1	10.5	28.66	43.52	-14.86	0-360	399	H
3	30.2975	35.92	PK	17.7	-30.1	10.5	34.02	40	-5.98	0-360	99	V
4	52.355	44.92	PK	9.2	-30	10.5	34.62	40	-5.38	0-360	249	V
5	58.1775	49.65	PK	7.3	-30.1	10.5	37.35	40	-2.65	0-360	249	V
6	63.49	52.88	PK	6.4	-30	10.5	39.78	40	-0.22	0-360	249	V
7	879.6	30.49	PK	22.8	-24.9	10.5	38.89	46.02	-7.13	0-360	199	H
8	914.2667	87.89	PK	23.1	-24.6	10.5	96.89	46.02	50.87	0-360	299	H
9	870.1333	31.4	PK	22.5	-24.5	10.5	39.9	46.02	-6.12	0-360	199	V
10	914.1333	93.73	PK	23.1	-24.6	10.5	102.73	46.02	56.71	0-360	199	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	62.023397	46.89	QP	6.5	-29.9	10.5	33.99	40	-6.01	12	271	V
	58.084551	43.2	QP	7.3	-30.1	10.5	30.9	40	-9.1	16	244	V
	52.355	38.53	QP	9.2	-30	10.5	28.23	40	-11.77	30	102	V
QP - Quasi-Peak detector												

4.3.5 High Voltage On/Off (347V/60Hz)

Figure 40 Radiated Spurious Emissions below 1GHz, Low Channel

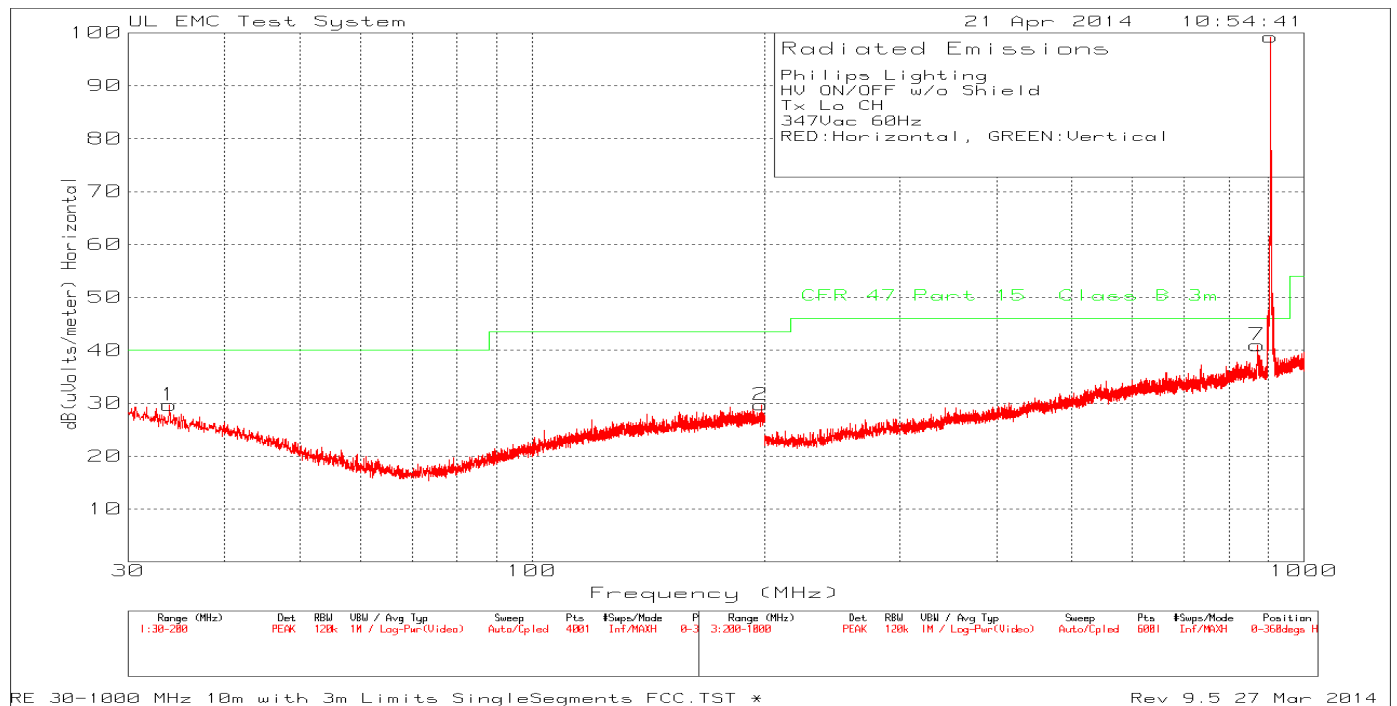
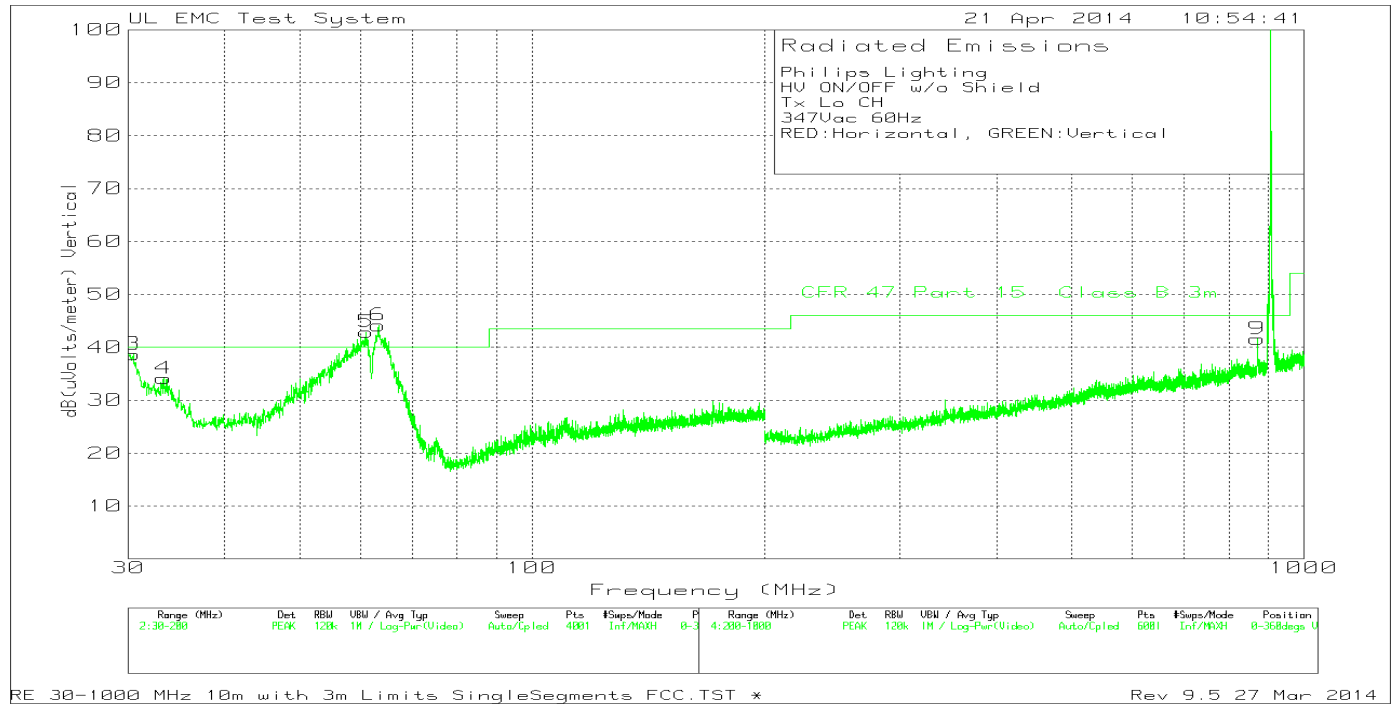


Table 43 Radiated Spurious Emissions below 1GHz, Low Channel

Philips Lighting												
HV ON/OFF w/o Shield												
Tx Lo CH												
347Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	33.91	32.93	PK	16.3	-30.1	10.5	29.63	40	-10.37	0-360	250	H
2	198.0025	31.83	PK	16.1	-28.7	10.5	29.73	43.52	-13.79	0-360	250	H
3	30.425	40.65	PK	17.6	-30.1	10.5	38.65	40	-1.35	0-360	99	V
4	33.315	37.33	PK	16.4	-30.1	10.5	34.13	40	-5.87	0-360	99	V
5	61.025	55.57	PK	6.8	-30	10.5	42.87	40	2.87	0-360	249	V
6	63.235	57.14	PK	6.5	-30	10.5	44.14	40	4.14	0-360	249	V
7	870.5333	32.48	PK	22.5	-24.5	10.5	40.98	46.02	-5.04	0-360	299	H
8	906.1333	90.53	PK	23.1	-24.9	10.5	99.23	46.02	53.21	0-360	299	H
9	870.2667	33.07	PK	22.5	-24.5	10.5	41.57	46.02	-4.45	0-360	99	V
10	906.1333	92.82	PK	23.1	-24.9	10.5	101.52	46.02	55.5	0-360	199	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	63.108141	52.64	QP	6.5	-30	10.5	39.64	40	-0.36	42	248	V
	60.763887	50.66	QP	6.8	-30	10.5	37.96	40	-2.04	46	275	V
	30.024406	37.27	QP	17.9	-30.1	10.5	35.57	40	-4.43	204	101	V
QP - Quasi-Peak detector												

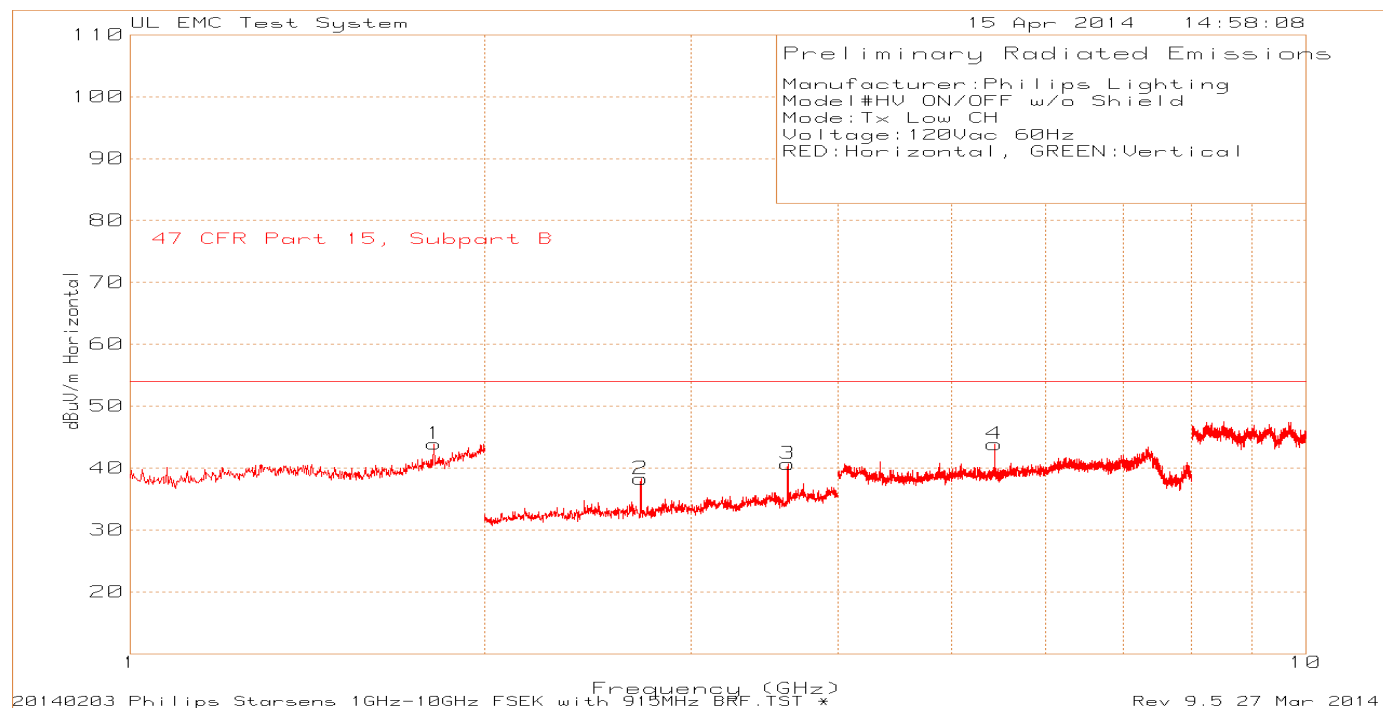
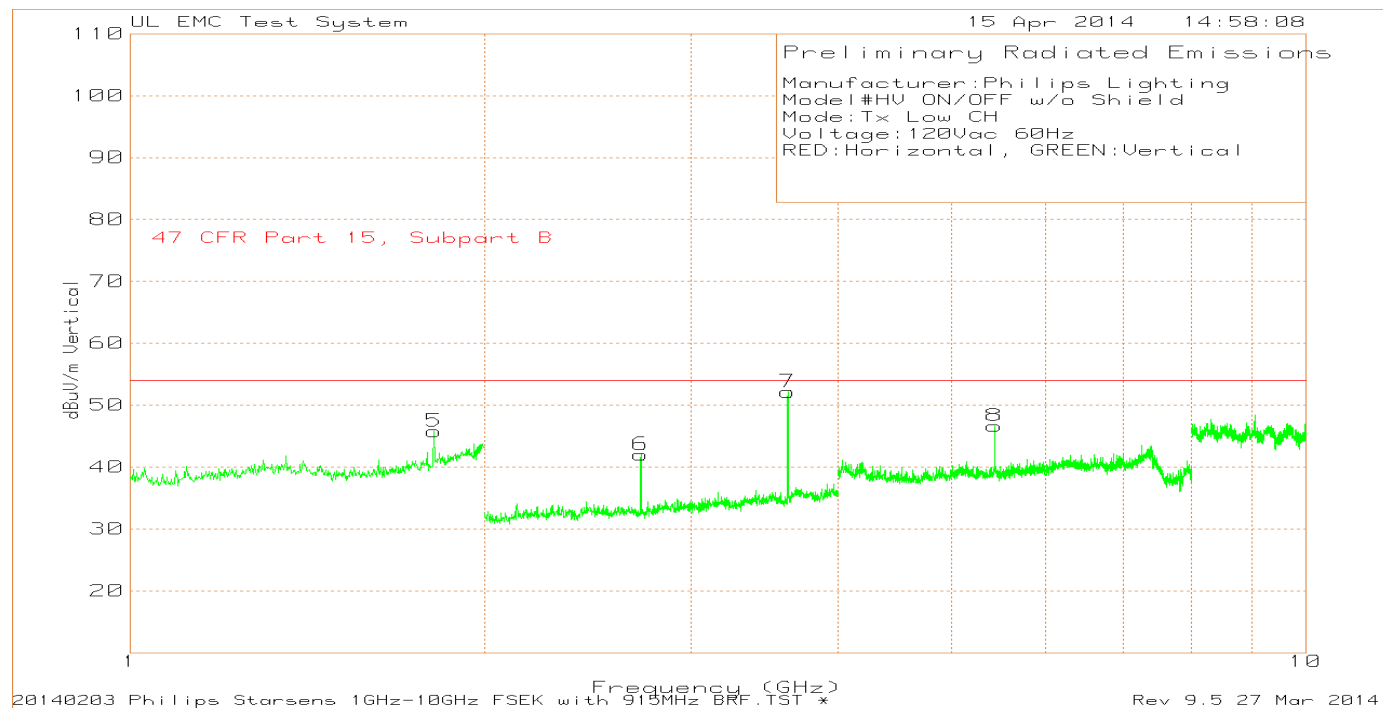
Figure 41 Radiated Spurious Emissions above 1GHz, Low Channel

Table 44 Radiated Spurious Emissions above 1GHz, Low Channel

Manufacturer: Philips Lighting												
Model#HV ON/OFF w/o Shield												
Mode:Tx Low CH												
Voltage:120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	1.8136	67.05	PK	30	0.4	-53.54	43.91	54	-10.09	0-360	149	H
2	2.7187	66.81	PK	22.1		-50.66	38.25	54	-15.75	0-360	150	H
3	3.6256	67.37	PK	23.3		-49.98	40.69	54	-13.31	0-360	150	H
4	5.4367	64.91	PK	28		-49.04	43.87	54	-10.13	0-360	150	H
5	1.8136	68.89	PK	30	0.4	-53.54	45.75	54	-8.25	0-360	150	V
6	2.7187	70.55	PK	22.1		-50.66	41.99	54	-12.01	0-360	150	V
7	3.6256	78.8	PK	23.3		-49.98	52.12	54	-1.88	0-360	150	V
8	5.4367	67.68	PK	28		-49.04	46.64	54	-7.36	0-360	150	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	3.6241	82.41	PK	23.3		-50.03	55.68	74	-18.32	167	117	V
		Level with -12.65dB Duty Cycle Correction					43.03	54	-10.97			
PK - Peak detector												

Figure 42 Radiated Spurious Emissions below 1GHz, Middle Channel

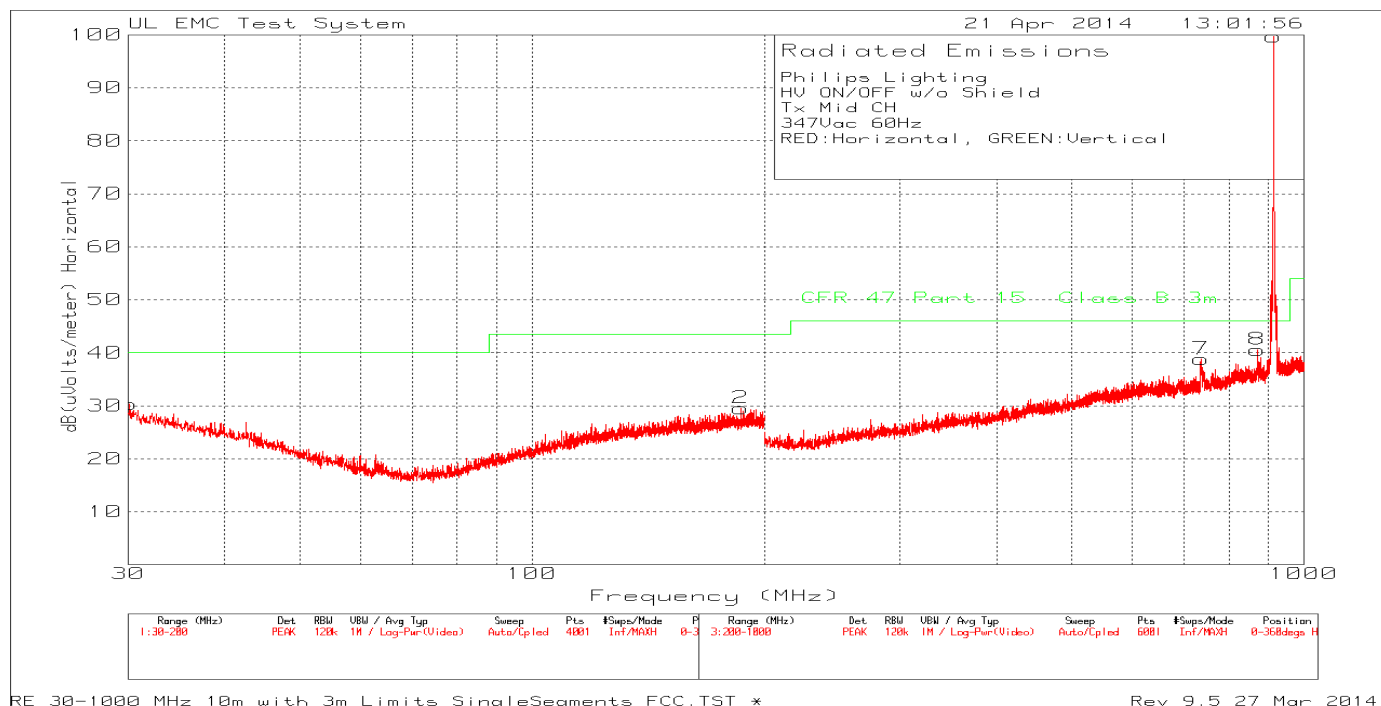
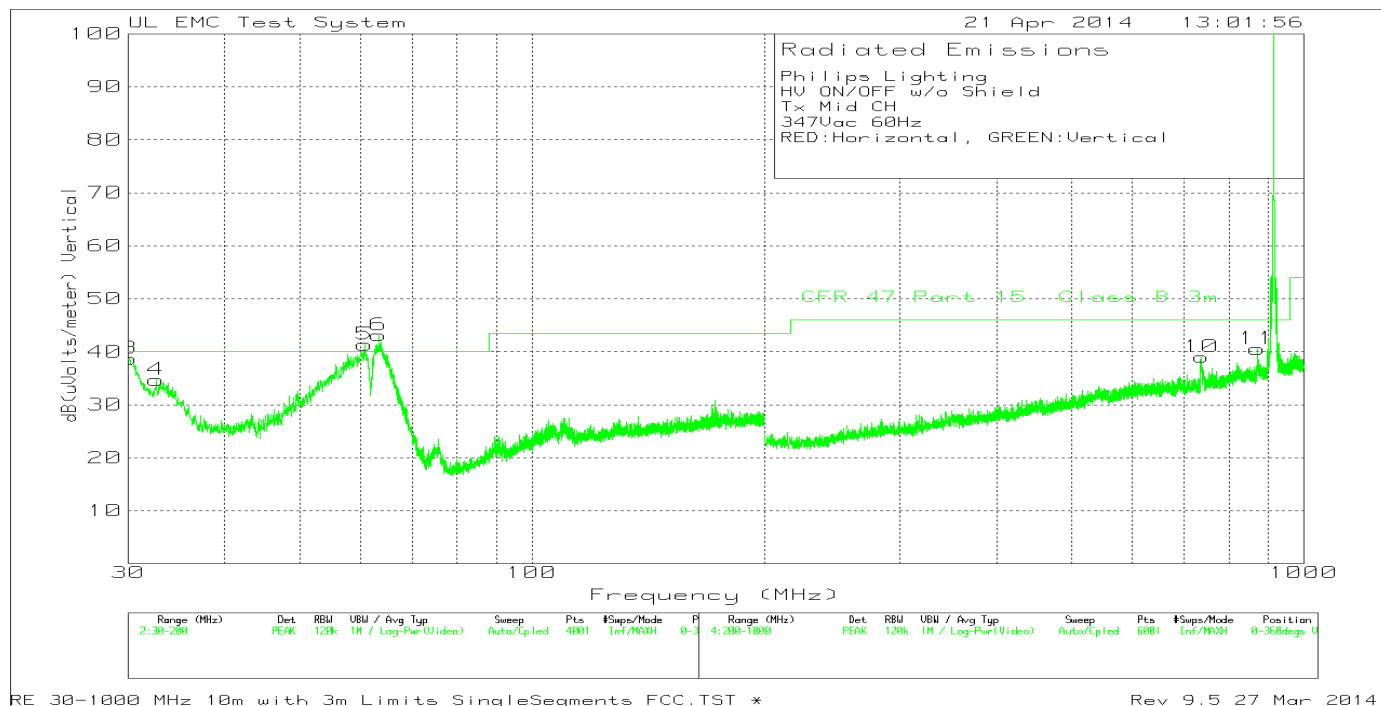


Table 45 Radiated Spurious Emissions below 1GHz, Middle Channel

Philips Lighting												
HV ON/OFF w/o Shield												
Tx Mid CH												
347Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	30.085	32.12	PK	17.8	-30.1	10.5	30.32	40	-9.68	0-360	250	H
2	186.485	32.15	PK	16	-29.1	10.5	29.55	43.52	-13.97	0-360	400	H
3	30.0425	40.43	PK	17.9	-30.1	10.5	38.73	40	-1.27	0-360	99	V
4	32.5925	37.63	PK	16.7	-30.1	10.5	34.73	40	-5.27	0-360	99	V
5	60.7275	54.07	PK	6.8	-30	10.5	41.37	40	1.37	0-360	249	V
6	63.3625	56.26	PK	6.4	-30	10.5	43.16	40	3.16	0-360	249	V
7	736.2667	32.3	PK	20.3	-24.3	10.5	38.8	46.02	-7.22	0-360	400	H
8	871.0667	32.08	PK	22.5	-24.5	10.5	40.58	46.02	-5.44	0-360	99	H
9	914	90.71	PK	23.1	-24.6	10.5	99.71	46.02	53.69	0-360	299	H
10	737.2	32.63	PK	20.3	-24.4	10.5	39.03	46.02	-6.99	0-360	400	V
11	870.5333	32.04	PK	22.5	-24.5	10.5	40.54	46.02	-5.48	0-360	299	V
12	913.8667	93.25	PK	23.1	-24.6	10.5	102.25	46.02	56.23	0-360	199	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	63.105712	49.87	QP	6.5	-30	10.5	36.87	40	-3.13	137	267	V
	60.492497	47.27	QP	6.8	-30	10.5	34.57	40	-5.43	0	257	V
	30.062853	37.11	QP	17.9	-30.1	10.5	35.41	40	-4.59	186	100	V
QP - Quasi-Peak detector												

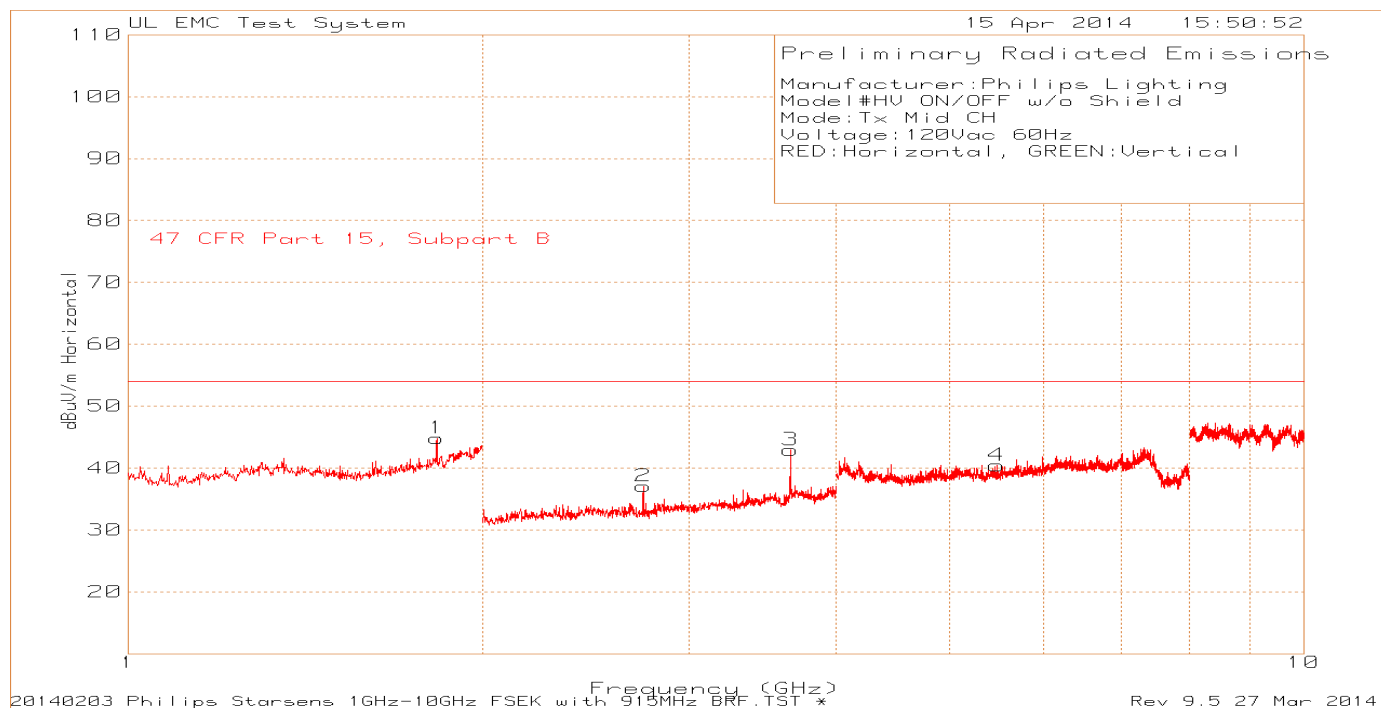
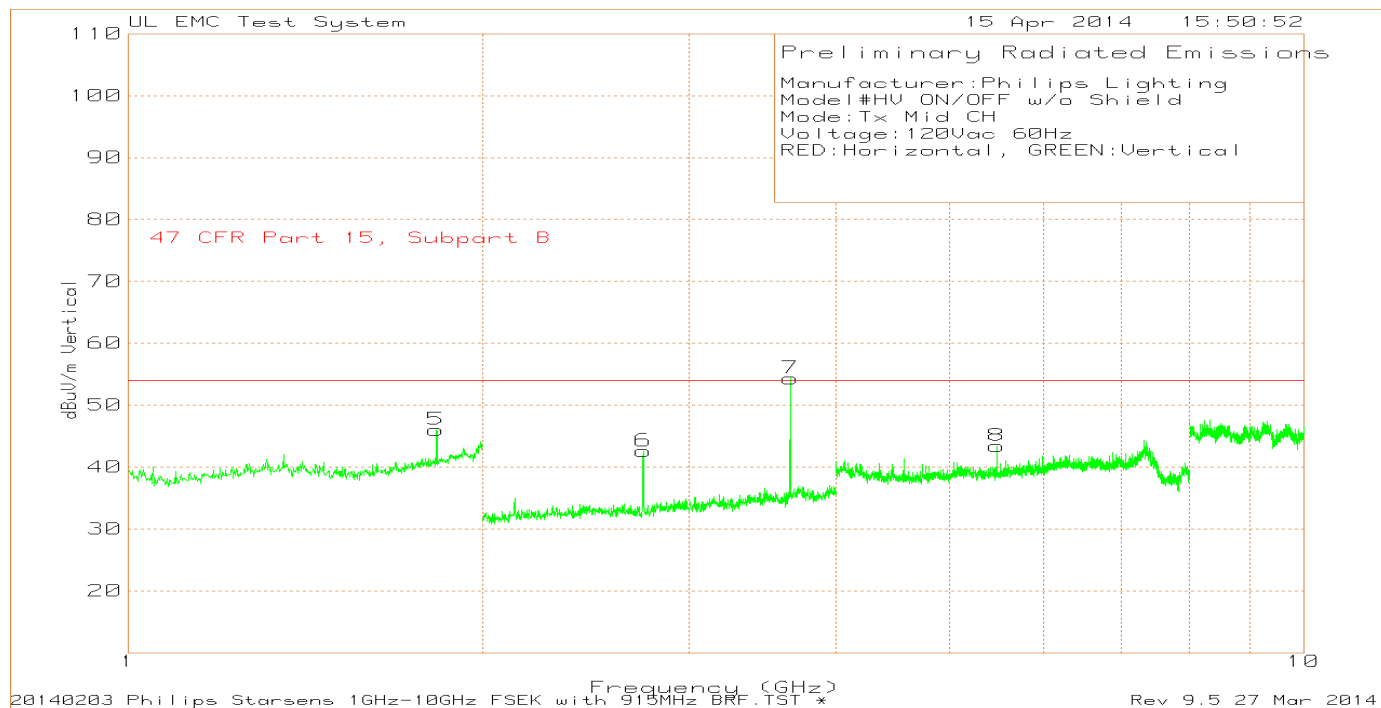
Figure 43 Radiated Spurious Emissions above 1GHz, Middle Channel

Table 46 Radiated Spurious Emissions above 1GHz, Middle Channel

Manufacturer:Philips Lighting												
Model#HV ON/OFF w/o Shield												
Mode:Tx Mid CH												
Voltage:120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency	Meter Reading		Antenna Factor	BRF	Gain/Loss	Level	Limit 47 CFR Part				
	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	15.209 dBuV/m	Margin	Azimuth	Height	Polarity
									dB	[Degs]	[cm]	
	1	1.8297	67.74	PK	30.2	0.4	-53.52	44.82	54	-9.18	0-360	149 H
	2	2.7427	65.64	PK	22.1	0	-50.67	37.07	54	-16.93	0-360	150 H
	3	3.6577	68.55	PK	23.4	0	-49.04	42.91	54	-11.09	0-360	150 H
	4	5.4847	61.49	PK	28.1	0	-49.17	40.42	54	-13.58	0-360	150 H
	5	1.8277	68.94	PK	30.2	0.4	-53.53	46.01	54	-7.99	0-360	150 V
	6	2.7427	71.15	PK	22.1	0	-50.67	42.58	54	-11.42	0-360	149 V
	7	3.6577	79.97	PK	23.4	0	-49.04	54.33	54	0.33	0-360	96 V
8	5.4827	64.47	PK	28.1	0	-49.15	43.42	54	-10.58	0-360	150 V	
PK - Peak detector												
Radiated Emission Data												
	Test Frequency	Meter Reading		Antenna Factor	BRF	Gain/Loss	Level	Limit 47 CFR Part				
	GHz	dBuV	Detector	dB/m	dB	dB	dBuV/m	15.209 dBuV/m	Margin	Azimuth	Height	Polarity
									dB	[Degs]	[cm]	
	3.6561	83.58	PK	23.4	0	-49.07	57.91	74	-16.09	161	117	V
		Level with -12.65dB Duty Cycle Correction					45.26	54	-8.74			
PK - Peak detector												

Figure 44 Radiated Spurious Emissions below 1GHz, High Channel

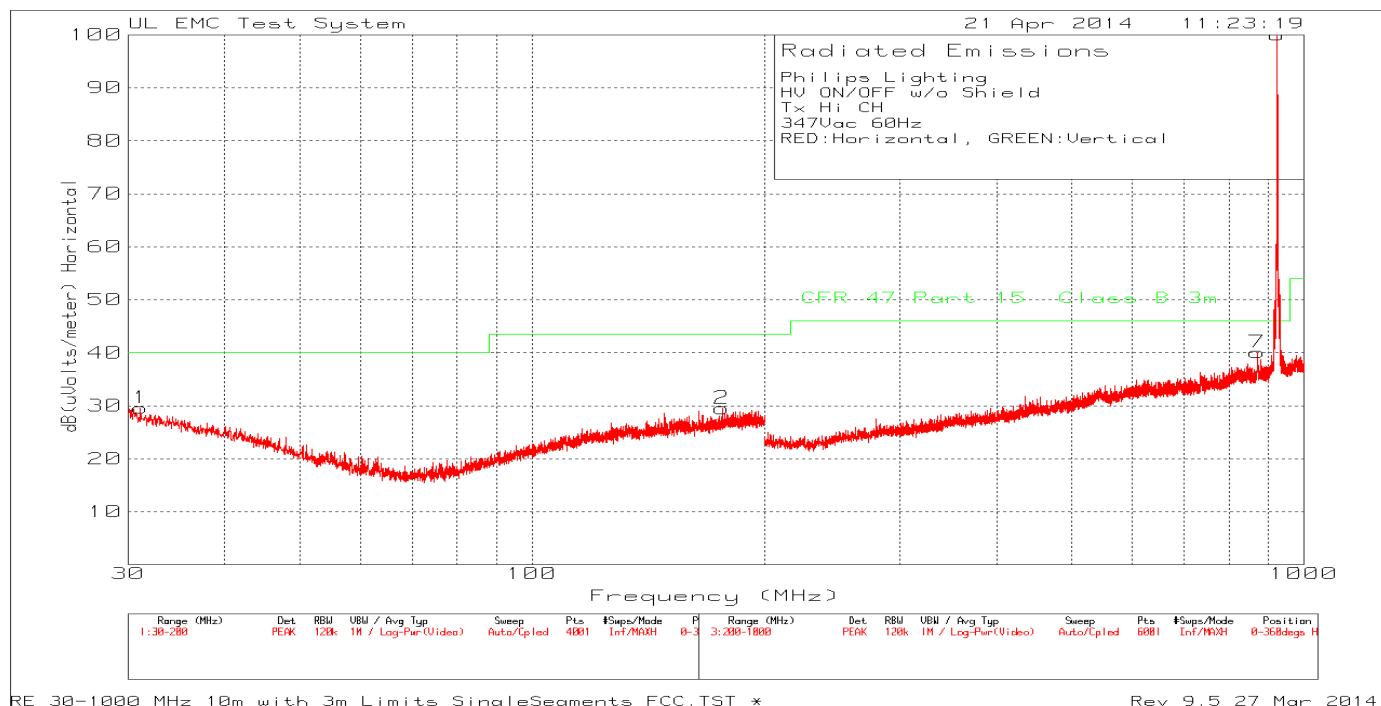
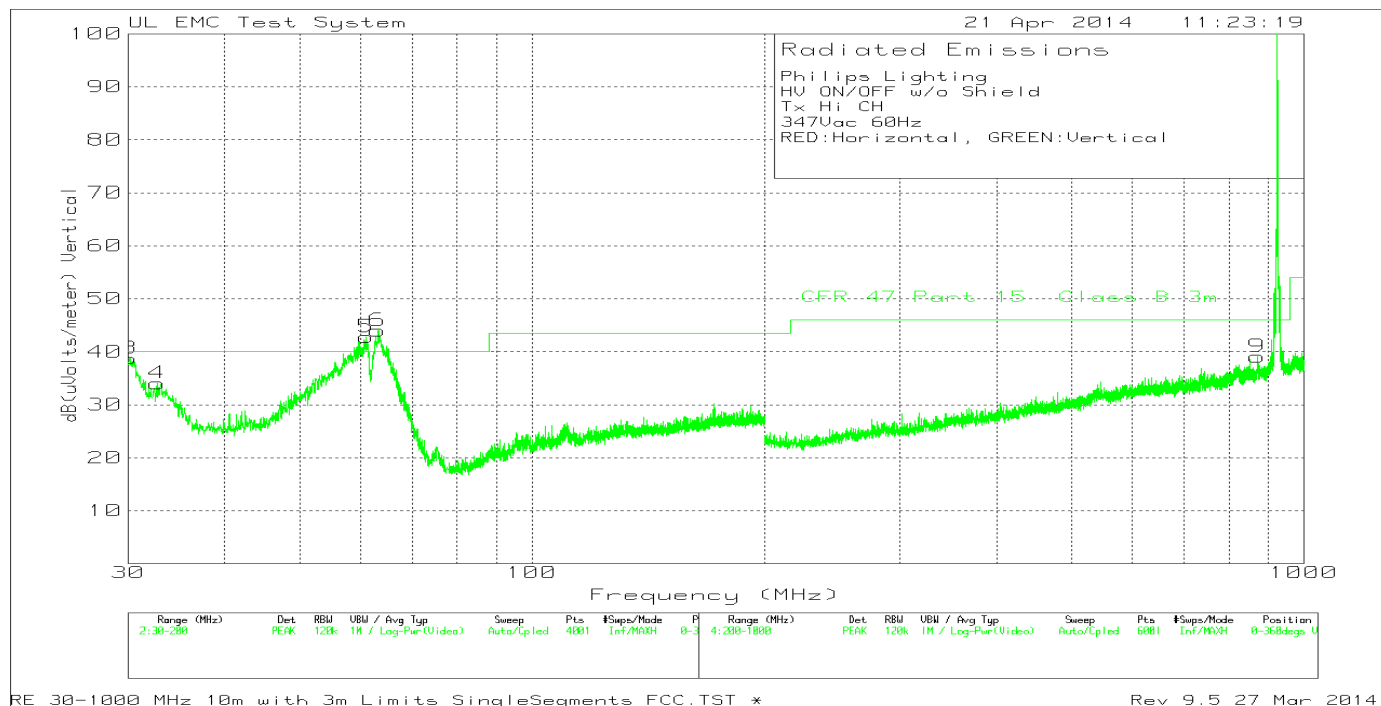
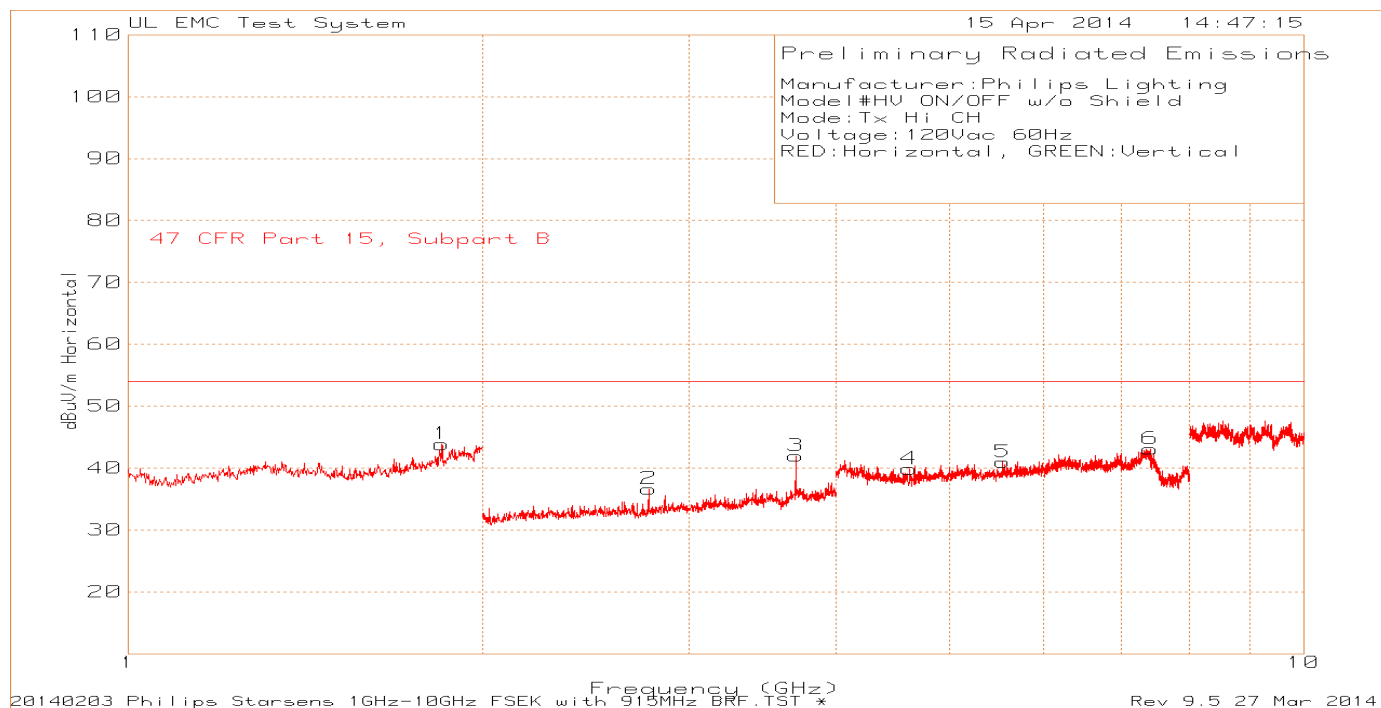
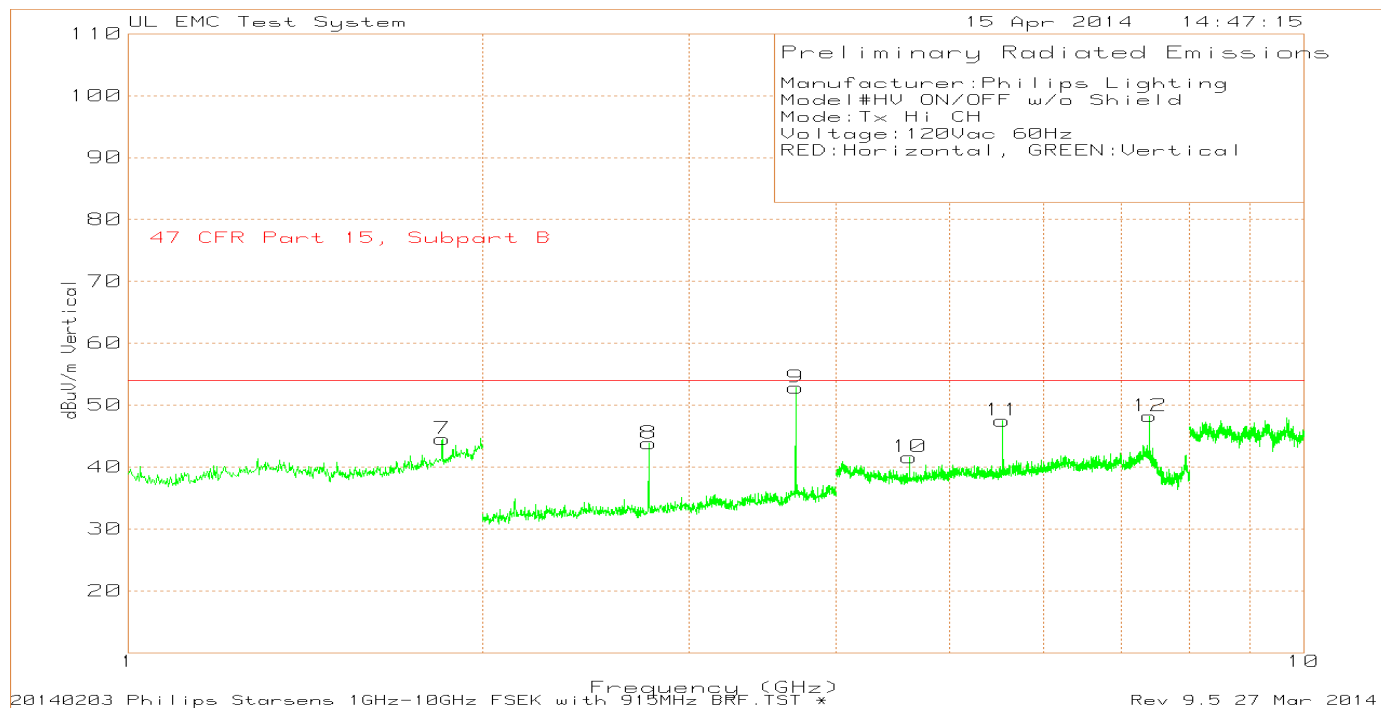


Table 47 Radiated Spurious Emissions below 1GHz, High Channel

Philips Lighting												
HV ON/OFF w/o Shield												
Tx Hi CH												
347Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	31.105	31.88	PK	17.3	-30.1	10.5	29.58	40	-10.42	0-360	101	H
2	176.37	32.71	PK	15.6	-29.3	10.5	29.51	43.52	-14.01	0-360	399	H
3	30.085	40.55	PK	17.8	-30.1	10.5	38.75	40	-1.25	0-360	99	V
4	32.6775	36.95	PK	16.7	-30.1	10.5	34.05	40	-5.95	0-360	99	V
5	61.025	55.49	PK	6.8	-30	10.5	42.79	40	2.79	0-360	249	V
6	63.15	57	PK	6.5	-30	10.5	44	40	4	0-360	249	V
7	870.8	31.59	PK	22.5	-24.5	10.5	40.09	46.02	-5.93	0-360	99	H
8	923.8667	91.4	PK	22.8	-24.7	10.5	100	46.02	53.98	0-360	299	H
9	870.5333	30.56	PK	22.5	-24.5	10.5	39.06	46.02	-6.96	0-360	299	V
10	924.1333	93.02	PK	22.8	-24.7	10.5	101.62	46.02	55.6	0-360	199	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	63.15641	50.65	QP	6.5	-30	10.5	37.65	40	-2.35	342	262	V
	60.816453	48.31	QP	6.8	-30	10.5	35.61	40	-4.39	2	245	V
	30.015568	37.05	QP	17.9	-30.1	10.5	35.35	40	-4.65	177	100	V
QP - Quasi-Peak detector												

Figure 45 Radiated Spurious Emissions above 1GHz, High Channel

Model Number: SSDB1

Client Name: Philips Lighting Electronics N. A.

Table 48 Radiated Spurious Emissions above 1GHz, High Channel

Manufacturer: Philips Lighting												
Model#HV ON/OFF w/o Shield												
Mode:Tx Hi CH												
Voltage:120Vac 60Hz												
RED:Horizontal, GREEN:Vertical												
Trace Markers												
Marker No.	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Deps]	Height [cm]	Polarity
1	1.8477	66.5	PK	30.5	0.3	-53.44	43.86	54	-10.14	0-360	101	H
2	2.7728	65	PK	22.2	0	-50.57	36.63	54	-17.37	0-360	150	H
3	3.6977	67.23	PK	23.5	0	-48.77	41.96	54	-12.04	0-360	150	H
4	4.6203	63.66	PK	27.7	0	-51.52	39.84	54	-14.16	0-360	150	H
5	5.5448	62.13	PK	28.3	0	-49.47	40.96	54	-13.04	0-360	150	H
6	7.4037	58.35	PK	31.1	0	-46.36	43.09	54	-10.91	0-360	150	H
7	1.8497	67.18	PK	30.5	0.3	-53.42	44.56	54	-9.44	0-360	150	V
8	2.7728	72.19	PK	22.2	0	-50.57	43.82	54	-10.18	0-360	150	V
9	3.6977	78.13	PK	23.5	0	-48.77	52.86	54	-1.14	0-360	150	V
10	4.6203	65.4	PK	27.7	0	-51.52	41.58	54	-12.42	0-360	96	V
11	5.5428	68.67	PK	28.3	0	-49.48	47.49	54	-6.51	0-360	96	V
12	7.3937	63.32	PK	31.2	0	-46.28	48.24	54	-5.76	0-360	96	V
PK - Peak detector												
Radiated Emission Data												
	Test Frequency GHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	BRF dB	Gain/Loss dB	Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Margin dB	Azimuth [Deps]	Height [cm]	Polarity
	3.696	81.58	PK	23.5	0	-48.76	56.32	74	-17.68	167	116	V
Level with -12.65dB Duty Cycle Correction							43.67	54	-10.33			
PK - Peak detector												

4.3.6 High Voltage On/Off (480V/60Hz)

Figure 46 Radiated Spurious Emissions below 1GHz, Radio Sleep Mode

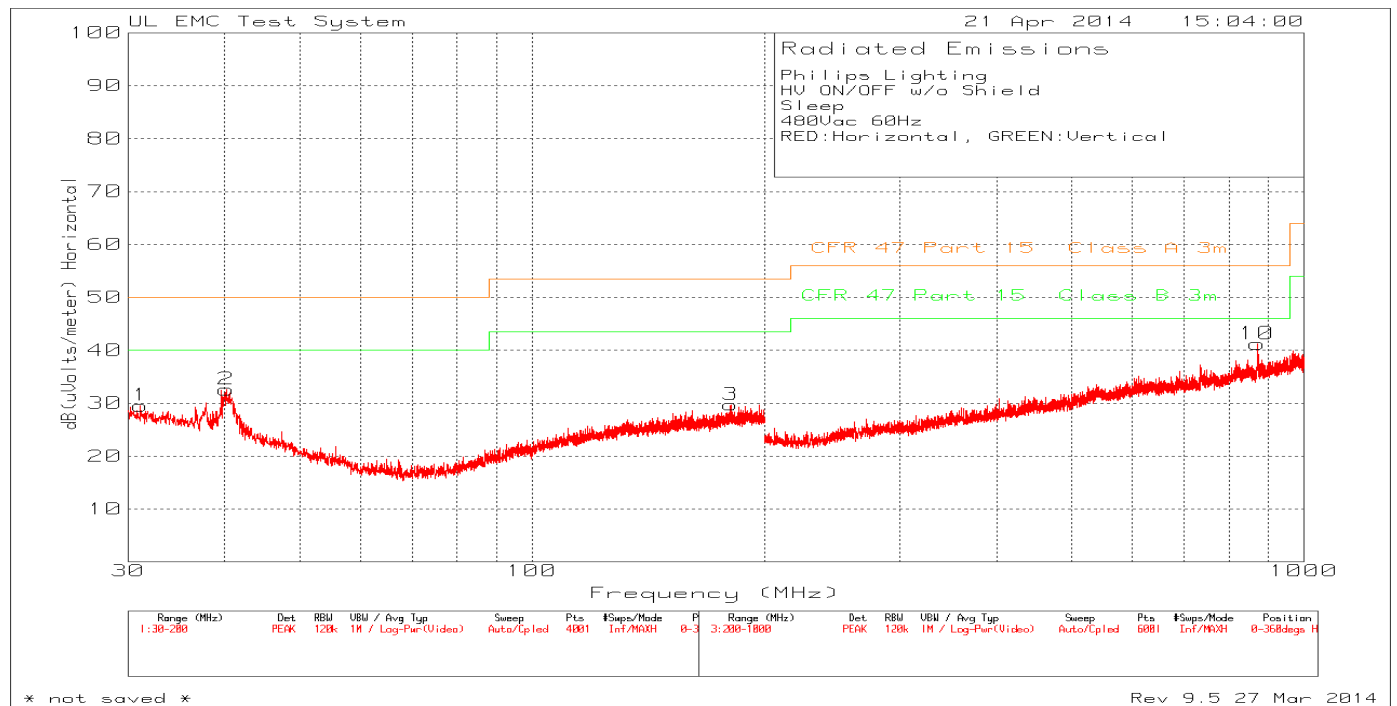
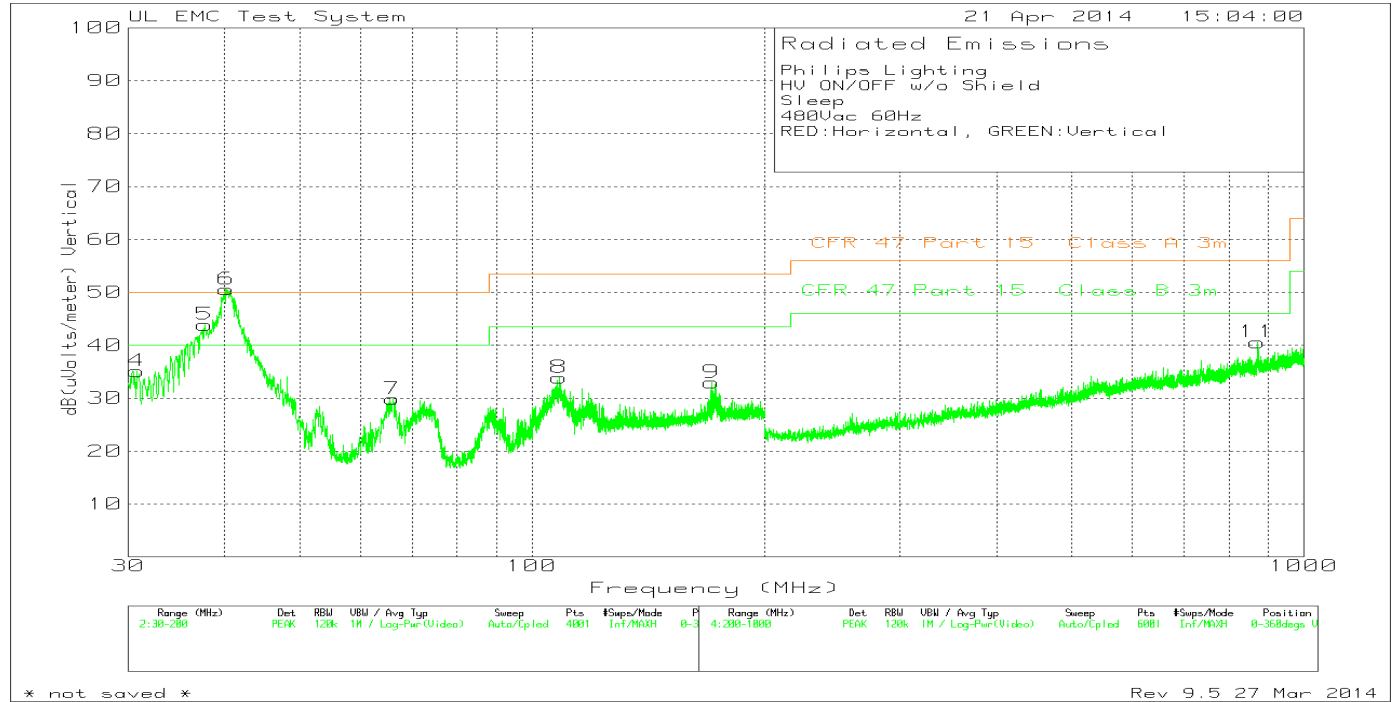


Table 49 Radiated Spurious Emissions below 1GHz, Radio Sleep Mode

Philips Lighting														
HV ON/OFF w/o Shield														
Sleep														
480Vac 60Hz														
RED:Horizontal, GREEN:Vertical														
Trace Markers														
	Test	Meter		Antenna	Path	10m to		Limit FCC		Limit FCC				
Marker	Frequency	Reading		Factor	Factor	3m	Level	15.209	Margin	Class A	Margin	Azimuth	Height	
No.	MHz	dBuV	Detector	dB/m	dB	Factor	dBuV/m	dBuV/m	dB	dBuV/m	dB	[Degs]	[cm]	Polarity
1	31.105	31.86	PK	17.3	-30.1	10.5	29.56	40	-10.44	50	-20.44	0-360	99	H
2	40.1575	38.18	PK	14	-30.1	10.5	32.58	40	-7.42	50	-17.42	0-360	250	H
3	180.96	32.52	PK	15.9	-29.2	10.5	29.72	43.52	-13.8	53.52	-23.8	0-360	99	H
4	30.765	37.32	PK	17.4	-30.1	10.5	35.12	40	-4.88	50	-14.88	0-360	99	V
5	37.6925	48.51	PK	14.9	-30	10.5	43.91	40	3.91	50	-6.09	0-360	99	V
6	40.1575	56.17	PK	14	-30.1	10.5	50.57	40	10.57	50	0.57	0-360	99	V
7	65.955	43.15	PK	6.2	-30	10.5	29.85	40	-10.15	50	-20.15	0-360	249	V
8	108.455	41.27	PK	11.9	-29.8	10.5	33.87	43.52	-9.65	53.52	-19.65	0-360	99	V
9	170.9725	36.56	PK	15.3	-29.4	10.5	32.96	43.52	-10.56	53.52	-20.56	0-360	99	V
10	870.1333	32.71	PK	22.5	-24.5	10.5	41.21	46.02	-4.81	56.02	-14.81	0-360	299	H
11	870.5333	32.07	PK	22.5	-24.5	10.5	40.57	46.02	-5.45	56.02	-15.45	0-360	299	V
PK - Peak detector														
Radiated Emission Data														
	Test	Meter		Antenna	Path	10m to		Limit FCC		Limit FCC				
	Frequency	Reading		Factor	Factor	3m	Level	15.209	Margin	15.109	Margin	Azimuth	Height	
	MHz	dBuV	Detector	dB/m	dB	Factor	dBuV/m	dBuV/m	dB	Class A	dB	[Degs]	[cm]	Polarity
	40.372885	52	QP	13.9	-30.1	10.5	46.3	40	6.3	50	-3.7	209	100	V
QP - Quasi-Peak detector														

Figure 47 Radiated Spurious Emissions below 1GHz, Middle Channel

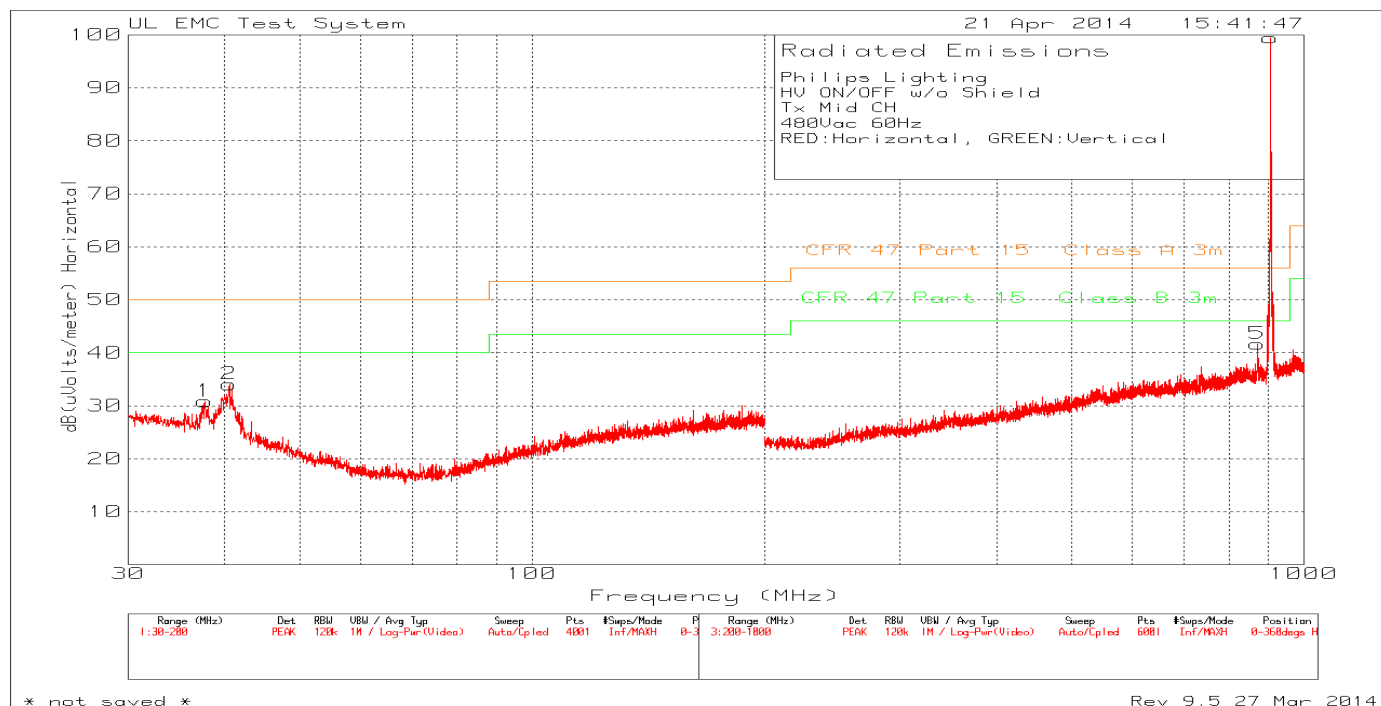
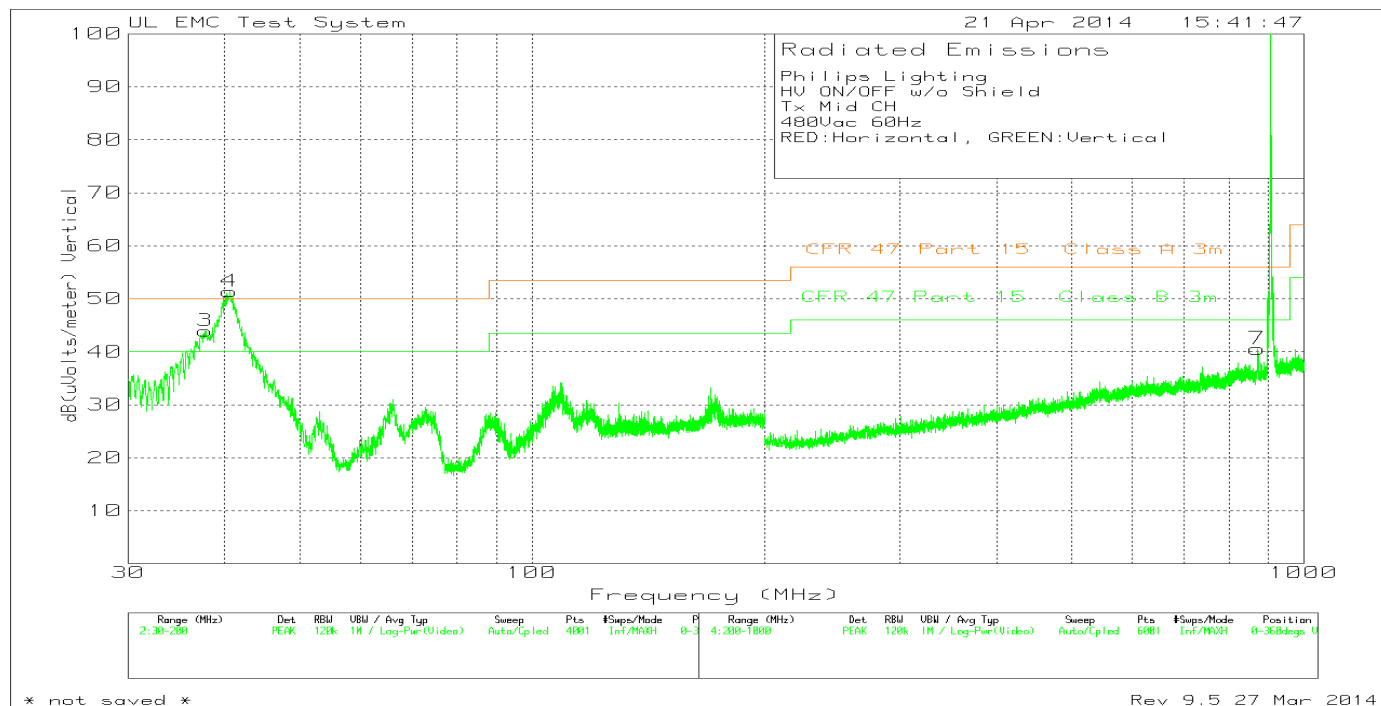


Table 50 Radiated Spurious Emissions below 1GHz, Middle Channel

Philips Lighting														
HV ON/OFF w/o Shield														
Tx Mid CH														
480Vac 60Hz														
RED:Horizontal, GREEN:Vertical														
Trace Markers														
Marker No.	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Limit FCC 15.109 Class A dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
1	37.6925	35.44	PK	14.9	-30	10.5	30.84	40	-9.16	50	-19.16	0-360	250	H
2	40.54	39.86	PK	13.8	-30.1	10.5	34.06	40	-5.94	50	-15.94	0-360	250	H
3	37.735	48.55	PK	14.9	-30	10.5	43.95	40	3.95	50	-6.05	0-360	99	V
4	40.5825	57.17	PK	13.8	-30.1	10.5	51.37	40	11.37	50	1.37	0-360	99	V
5	870.2667	33.17	PK	22.5	-24.5	10.5	41.67	46.02	-4.35	56.02	-14.35	0-360	400	H
6	905.8667	90.77	PK	23.1	-24.9	10.5	99.47	46.02	53.45	56.02	43.45	0-360	299	H
7	870.4	32.02	PK	22.5	-24.5	10.5	40.52	46.02	-5.5	56.02	-15.5	0-360	199	V
8	906.1333	93.62	PK	23.1	-24.9	10.5	102.32	46.02	56.3	56.02	46.3	0-360	199	V
PK - Peak detector														
Radiated Emission Data														
	Test Frequency MHz	Meter Reading dBuV	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level dBuV/m	Limit FCC 15.209 dBuV/m	Margin dB	Limit FCC 15.109 Class A dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
	40.147885	52.3	QP	14	-30.1	10.5	46.7	40	6.7	50	-3.3	174	102	V
QP - Quasi-Peak detector														

4.4 Test Conditions and Results – 6dB BANDWIDTH

Test Description	Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.	
Basic Standard	47 CFR Part 15.247(a)(2) RSS-210, A8.2(a)	

Table 51 6dB Bandwidth Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
5	1	1
Supplementary information: None		

Table 52 6dB Bandwidth Results

Mode	Channel	6dB Bandwidth
TX	Low	0.8006 MHz
	Middle	0.8402 MHz
	High	0.7820 MHz

Figure 48 6dB Bandwidth Graphs – Low Channel

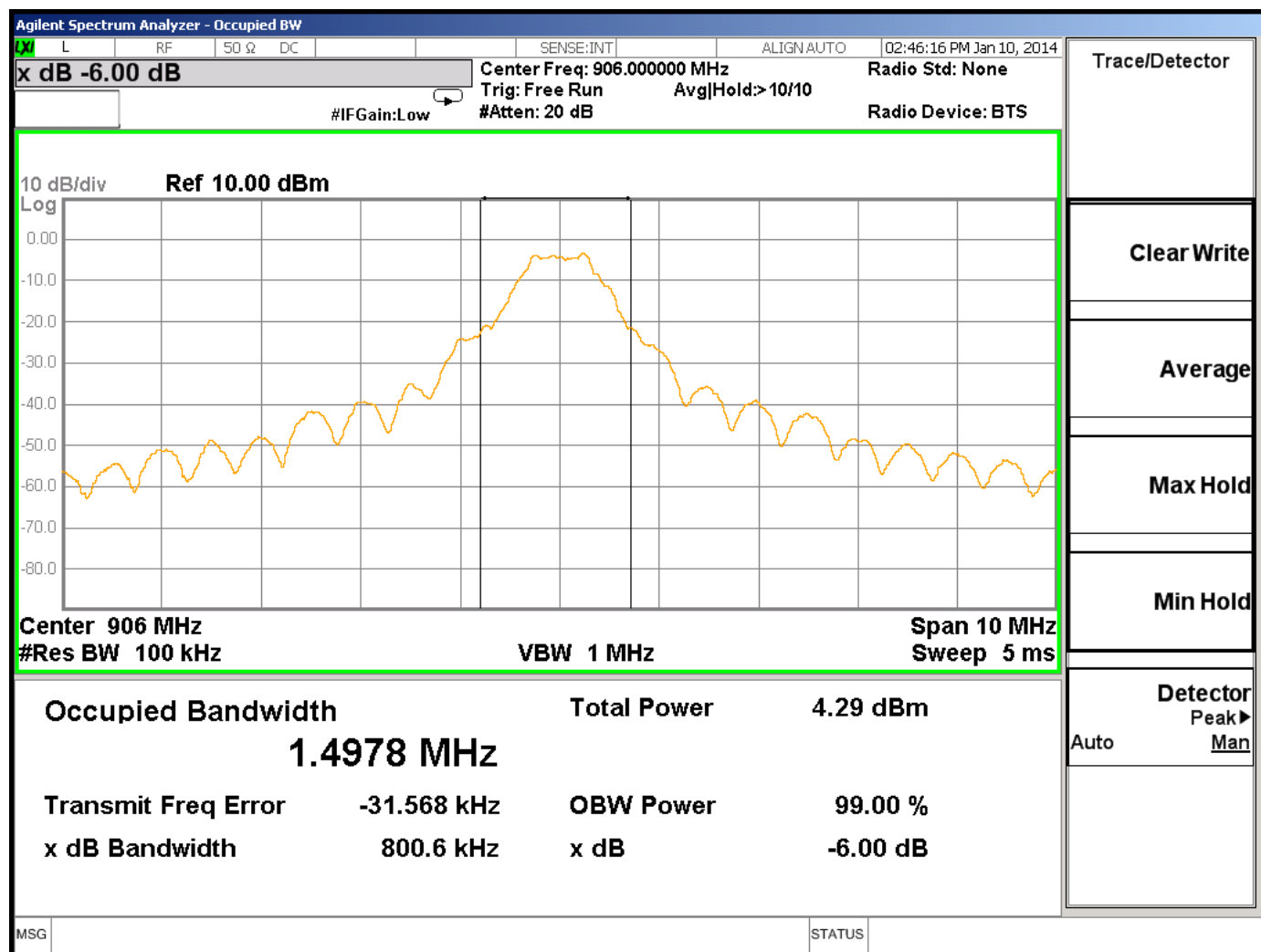


Figure 49 6dB Bandwidth Graphs – Middle Channel

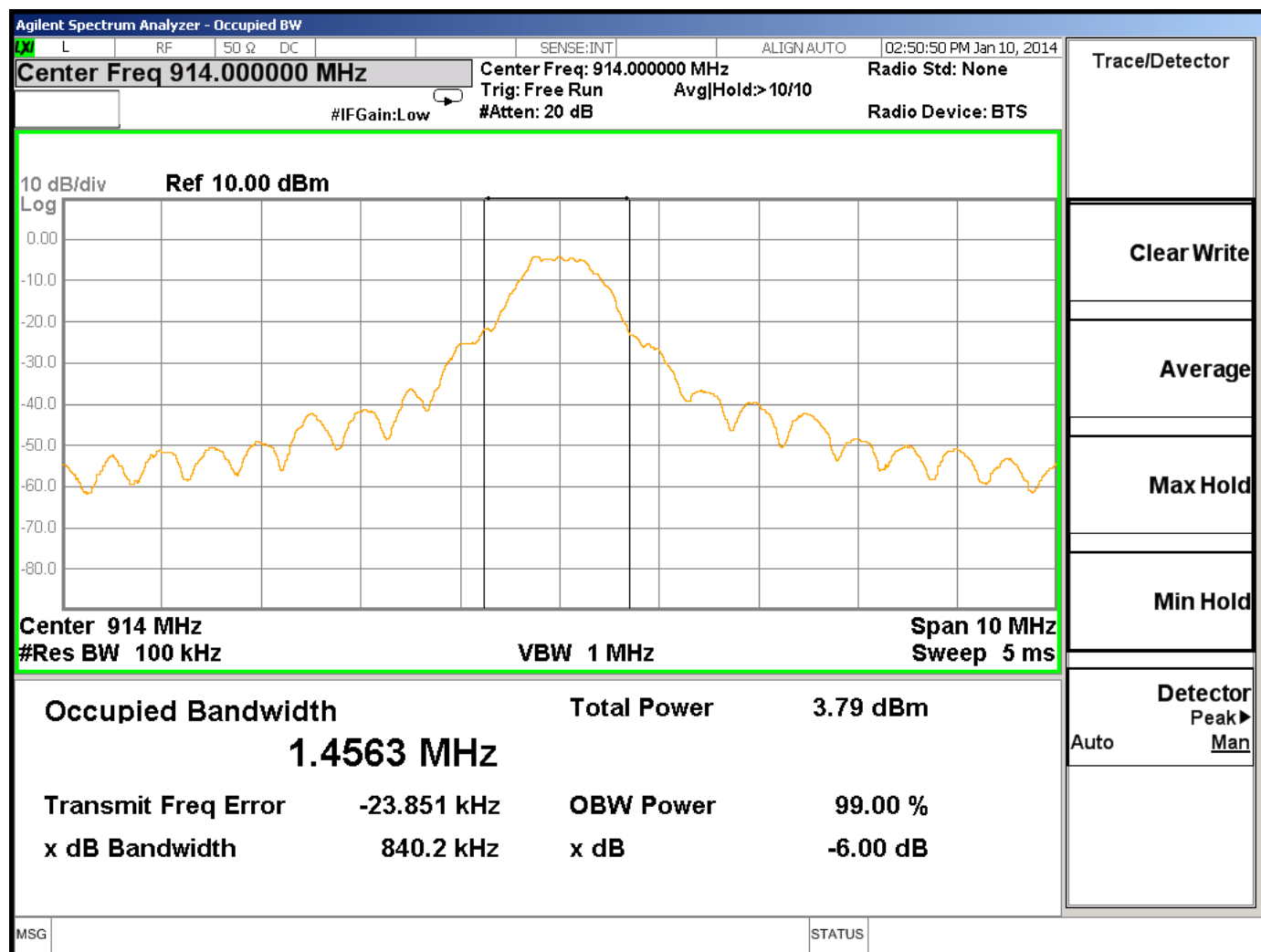
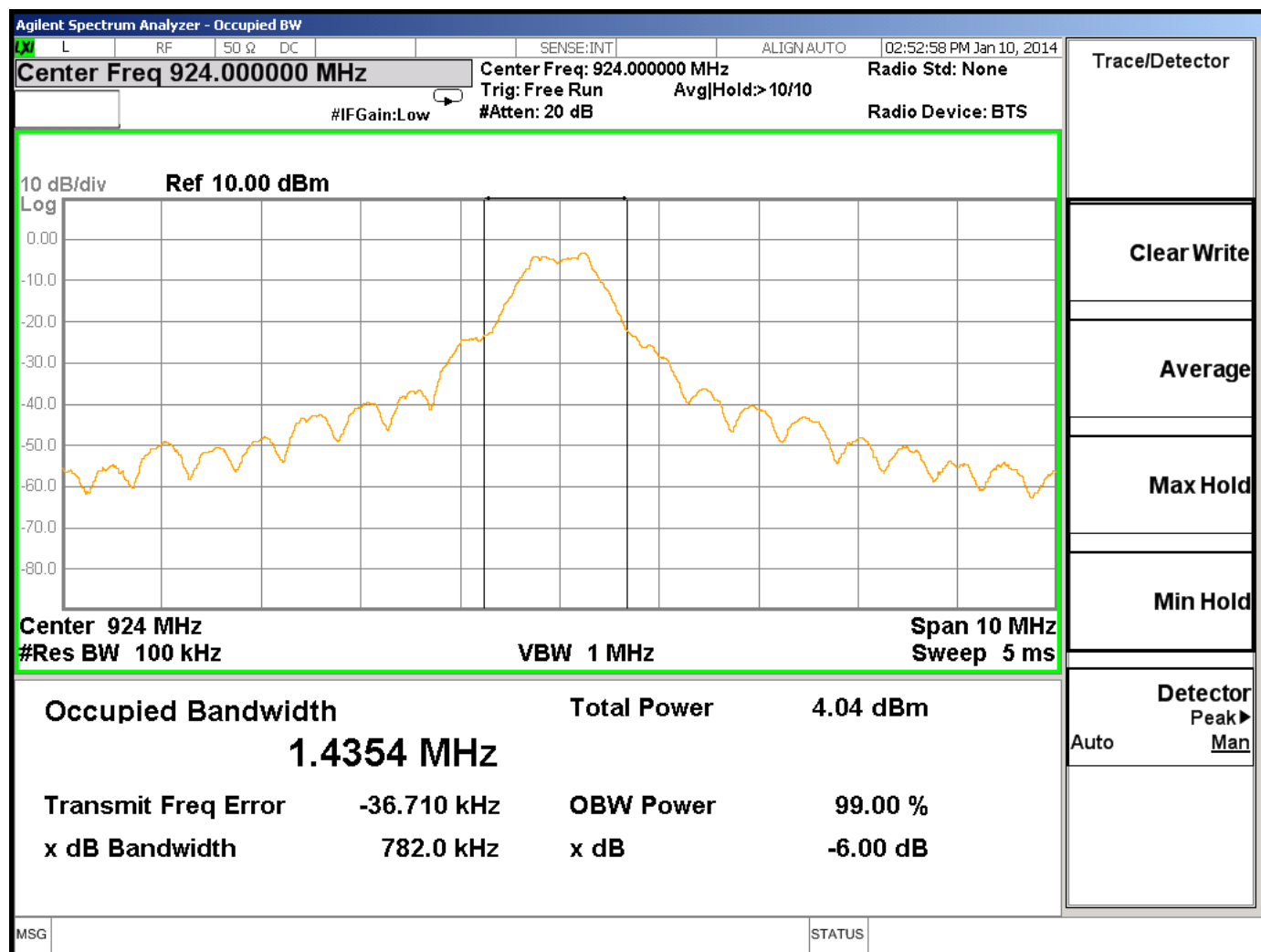


Figure 50 6dB Bandwidth Graphs – High Channel



4.5 Test Conditions and Results – MAXIMUM PEAK OUTPUT POWER

Test Description	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.	
Basic Standard	47 CFR Part 15.247(b)(3) RSS-210, A8.4(4)	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	902MHz – 928MHz	Antenna Conducted
Limits		
Frequency (MHz)	Limit mW	
	Peak	
902 - 928	1,000	
Supplementary information: None		

Table 53 Maximum Peak Output Power EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
5	1	1
Supplementary information: None		

Table 54 Maximum Peak Output Power Results

Channel	Limit (dBm)	Power dBm	Power W
Low Channel	30	8.620	0.00728
Middle Channel	30	8.523	0.00712
High Channel	30	8.696	0.00741

Figure 51 Maximum Peak Output Power Graphs – Low Channel

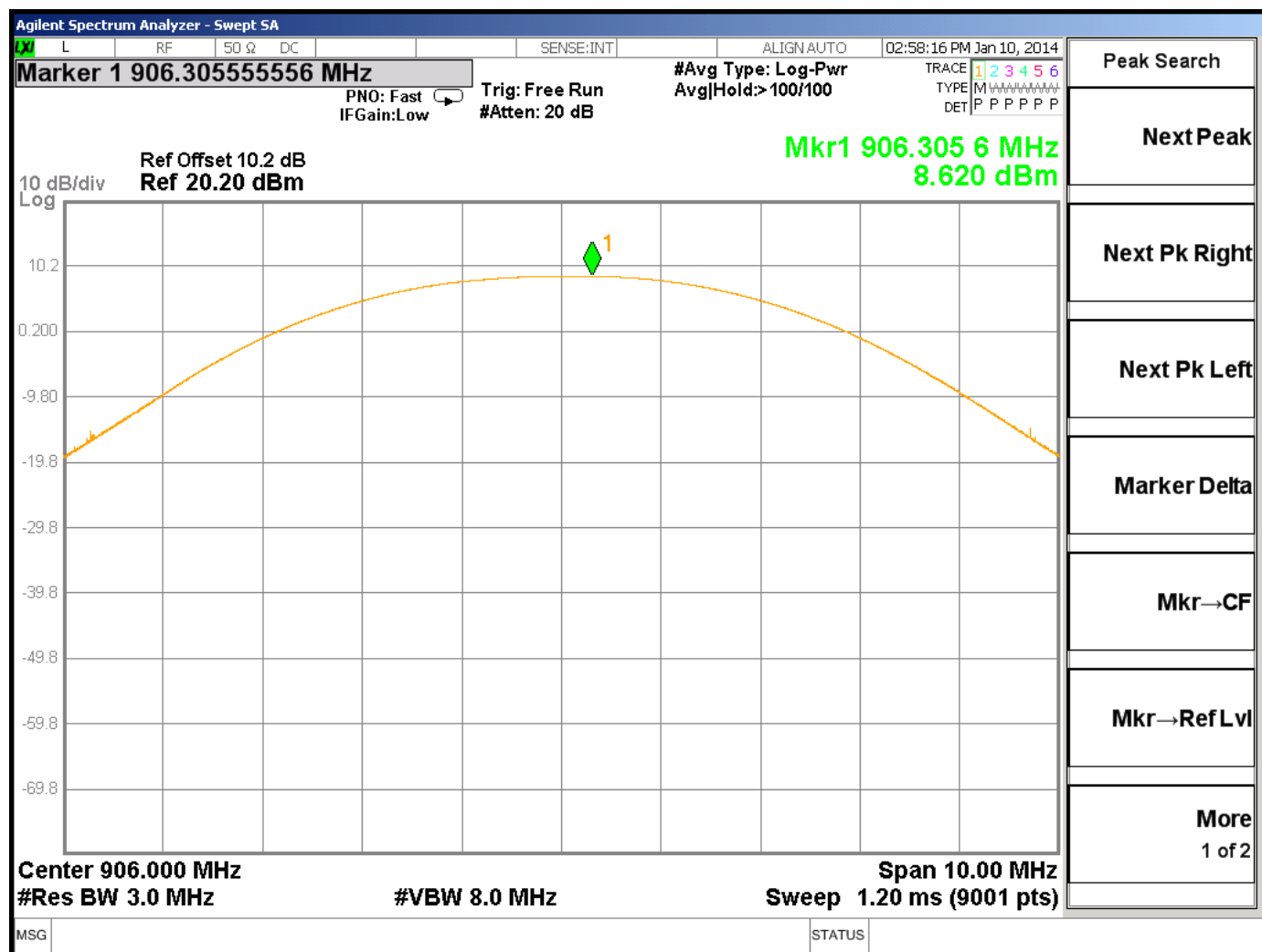


Figure 52 Maximum Peak Output Power Graphs – Mid Channel

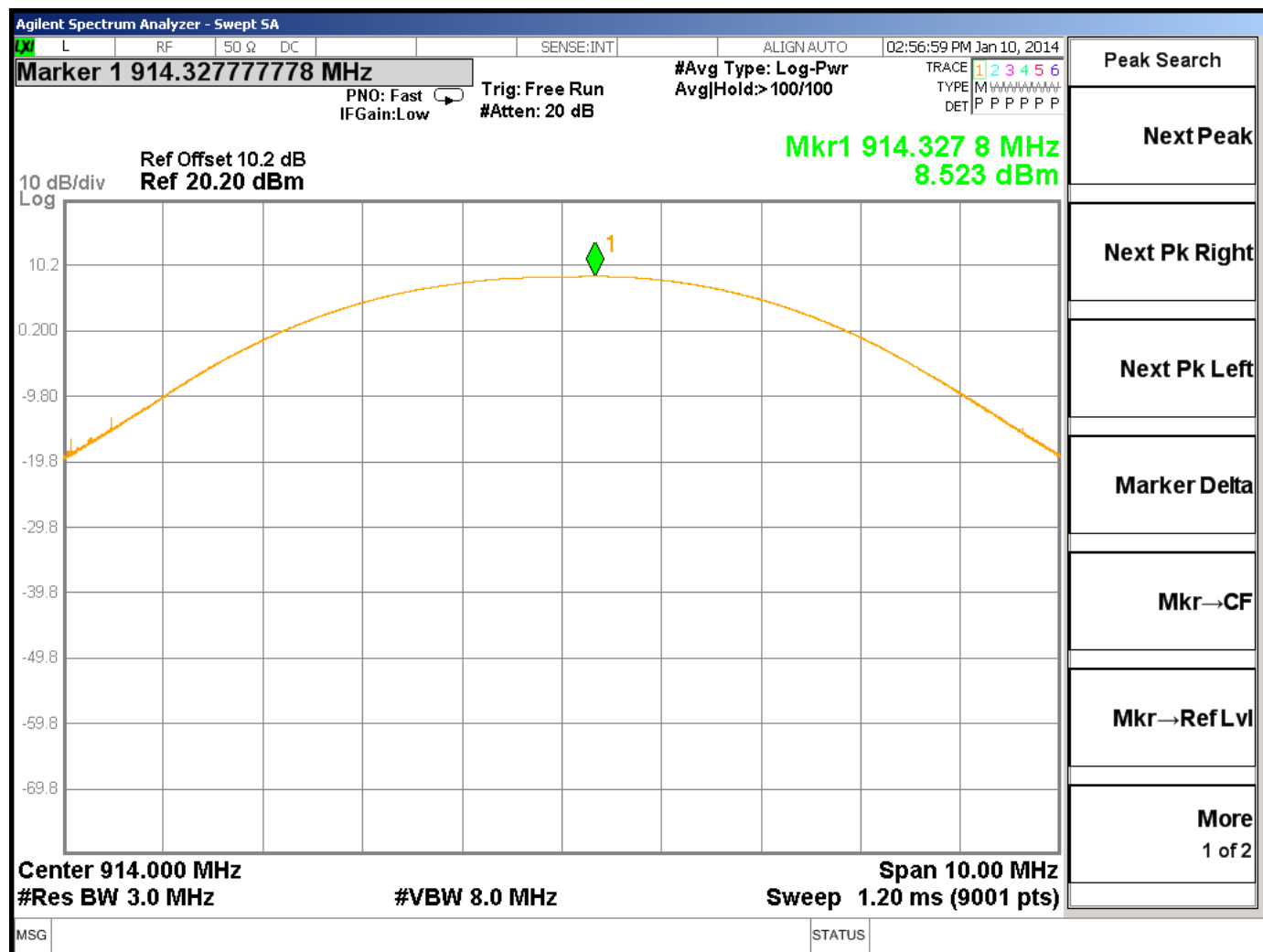
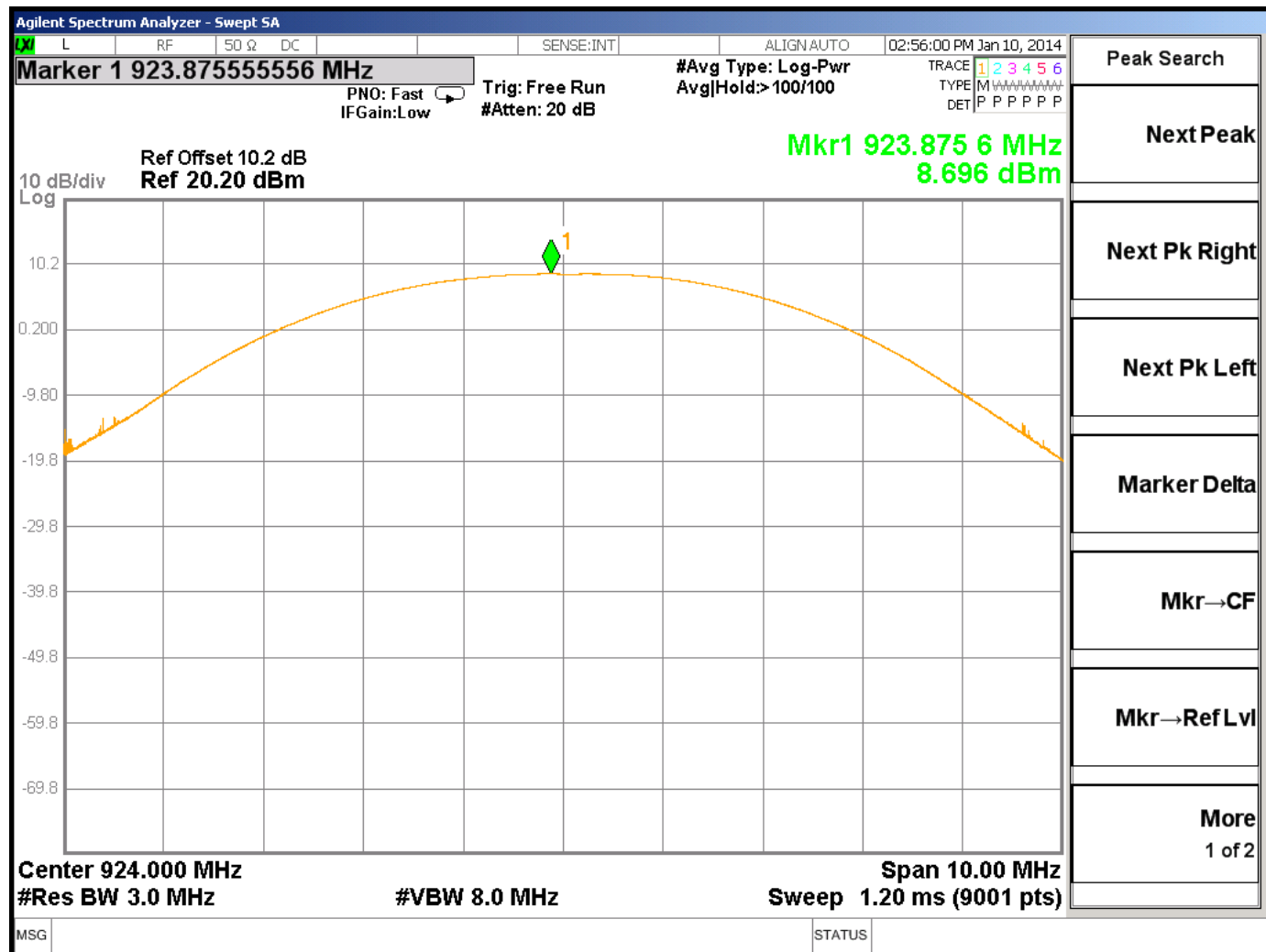


Figure 53 Maximum Peak Output Power Graphs – High Channel



4.6 Test Conditions and Results – POWER SPECTRAL DENSITY

Test Description	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.		
Basic Standard		47 CFR Part 15.247(e) RSS-210, A8.2(b)	
	Frequency range		Measurement Point
Fully configured sample scanned over the following frequency range		902MHz – 928MHz	Antenna Conducted
Limits			
Frequency (MHz)	Limit mW		
	Peak		
902 - 928		8dBm (0.00631mW)	
Supplementary information: None			

Table 55 Power Spectral Density EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
5	1	1
Supplementary information: None		

Table 56 Power Spectral Density Power Results

Channel	Limit (dBm)	Power Density dBm
Low Channel	8	-3.391
Middle Channel	8	-3.323
High Channel	8	-4.671

Figure 54 Power Spectral Density Graphs – Low Channel

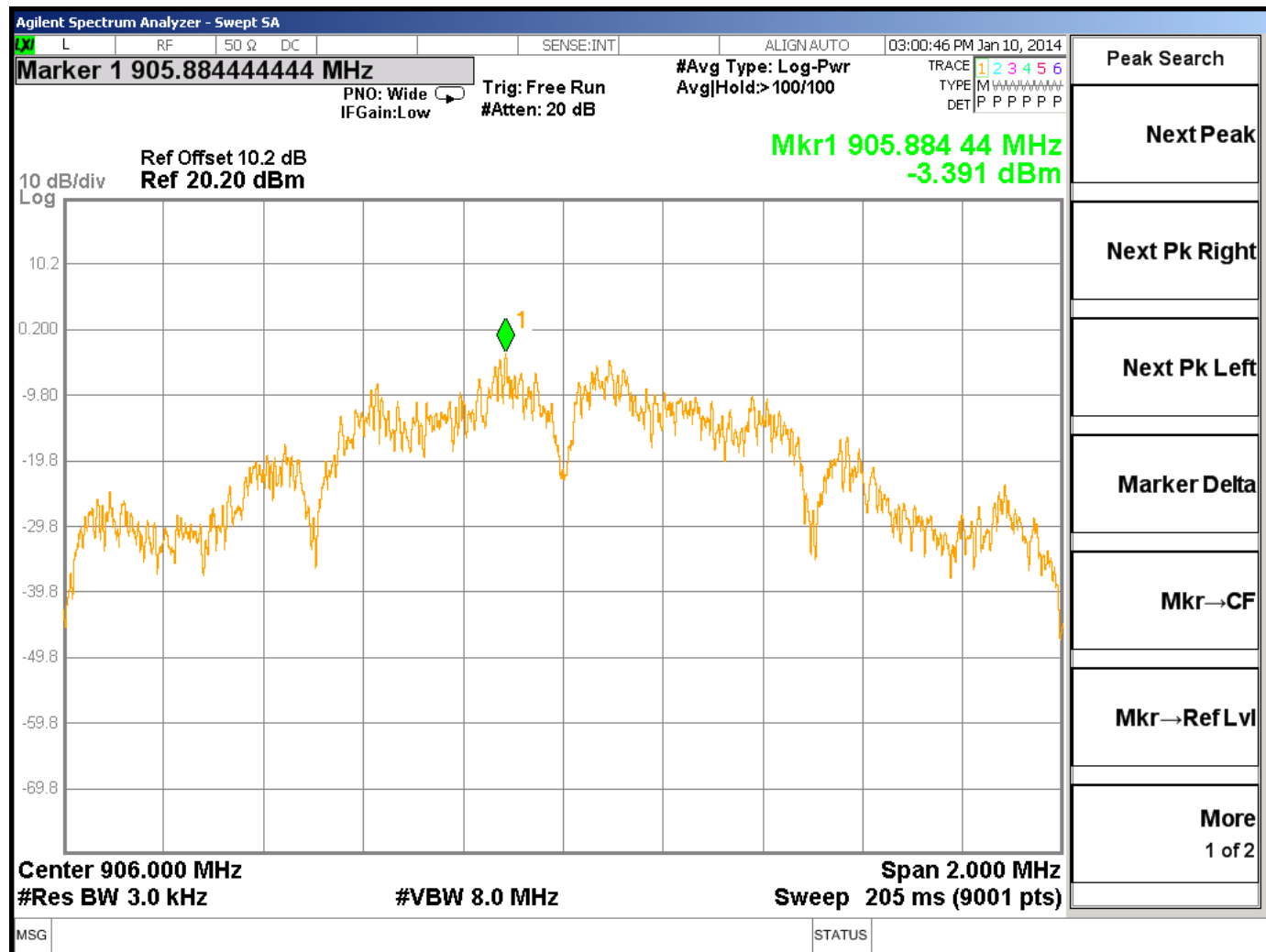


Figure 55 Power Spectral Density Graphs – Middle Channel

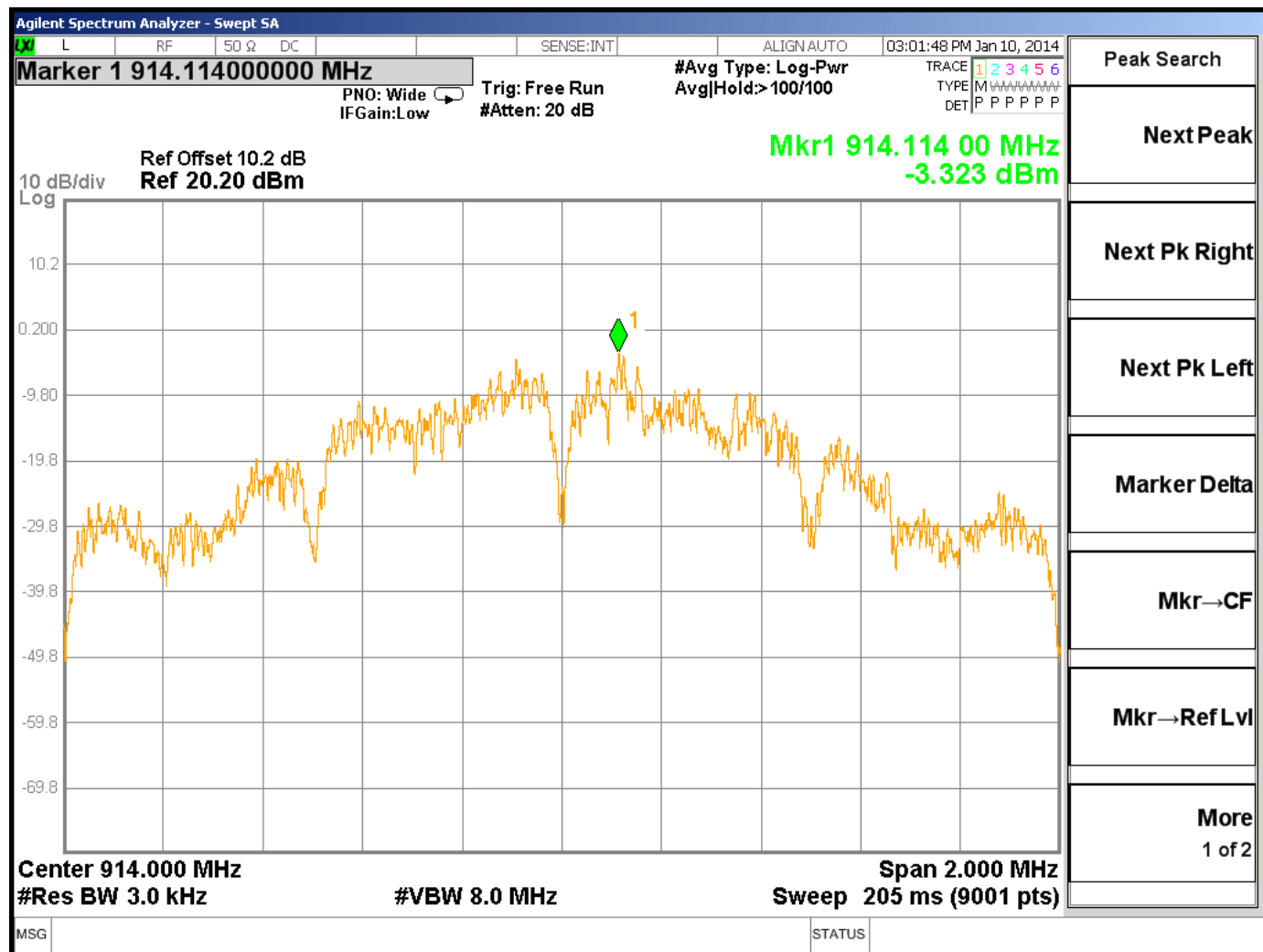
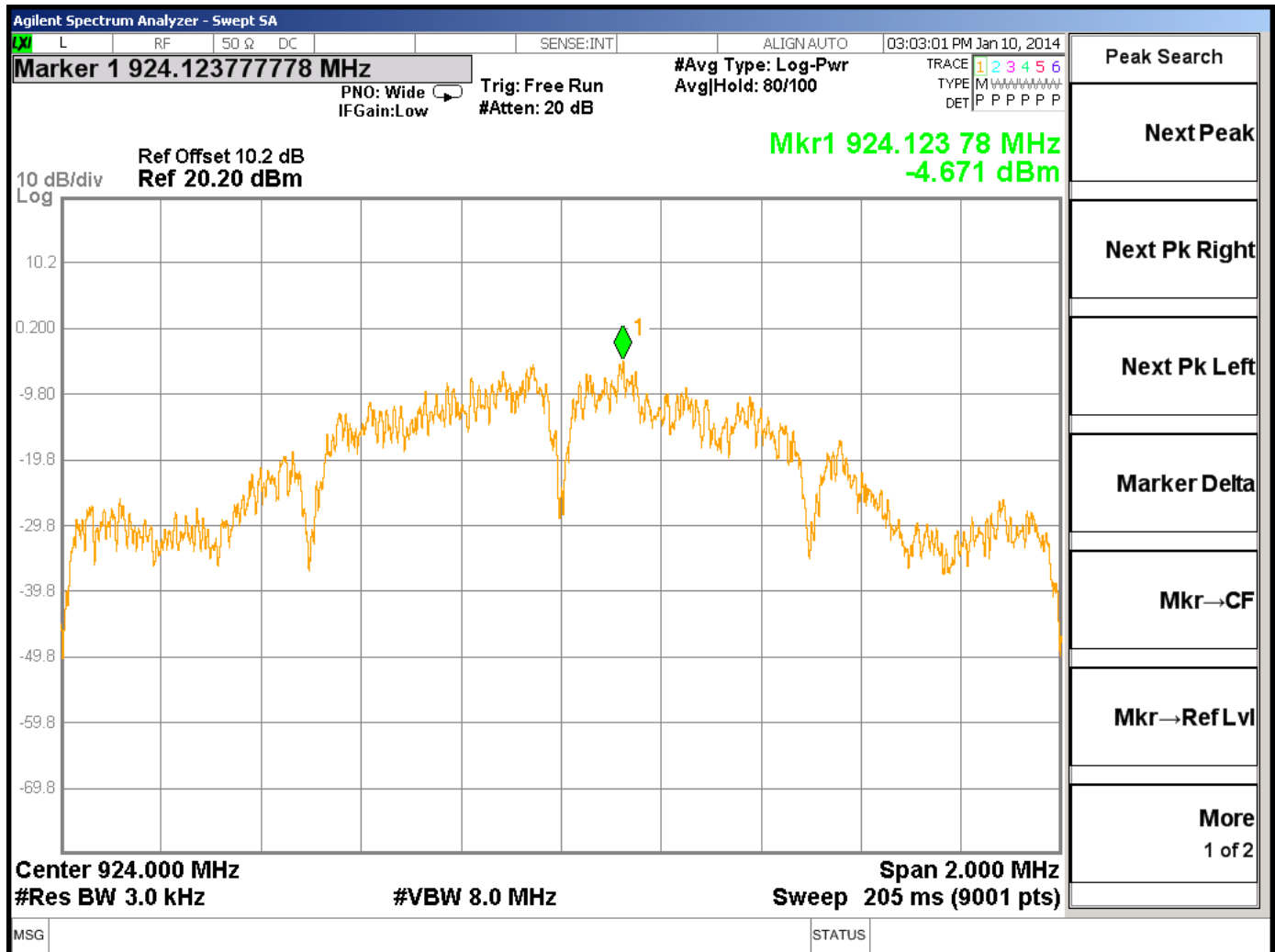


Figure 56 Power Spectral Density Graphs – High Channel



4.7 Test Conditions and Results – 99% Power BANDWIDTH

Test Description	When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.
Basic Standard	RSS-Gen, 4.6.1

Table 57 99% Power Bandwidth Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
5	1	1
Supplementary information: None		

Table 58 99% Power Bandwidth Results

Mode	Channel	99% Power Bandwidth
TX	Low	1.4819MHz
	Middle	1.4492MHz
	High	1.4193MHz

Figure 57 99% Power Bandwidth Graphs – Low Channel

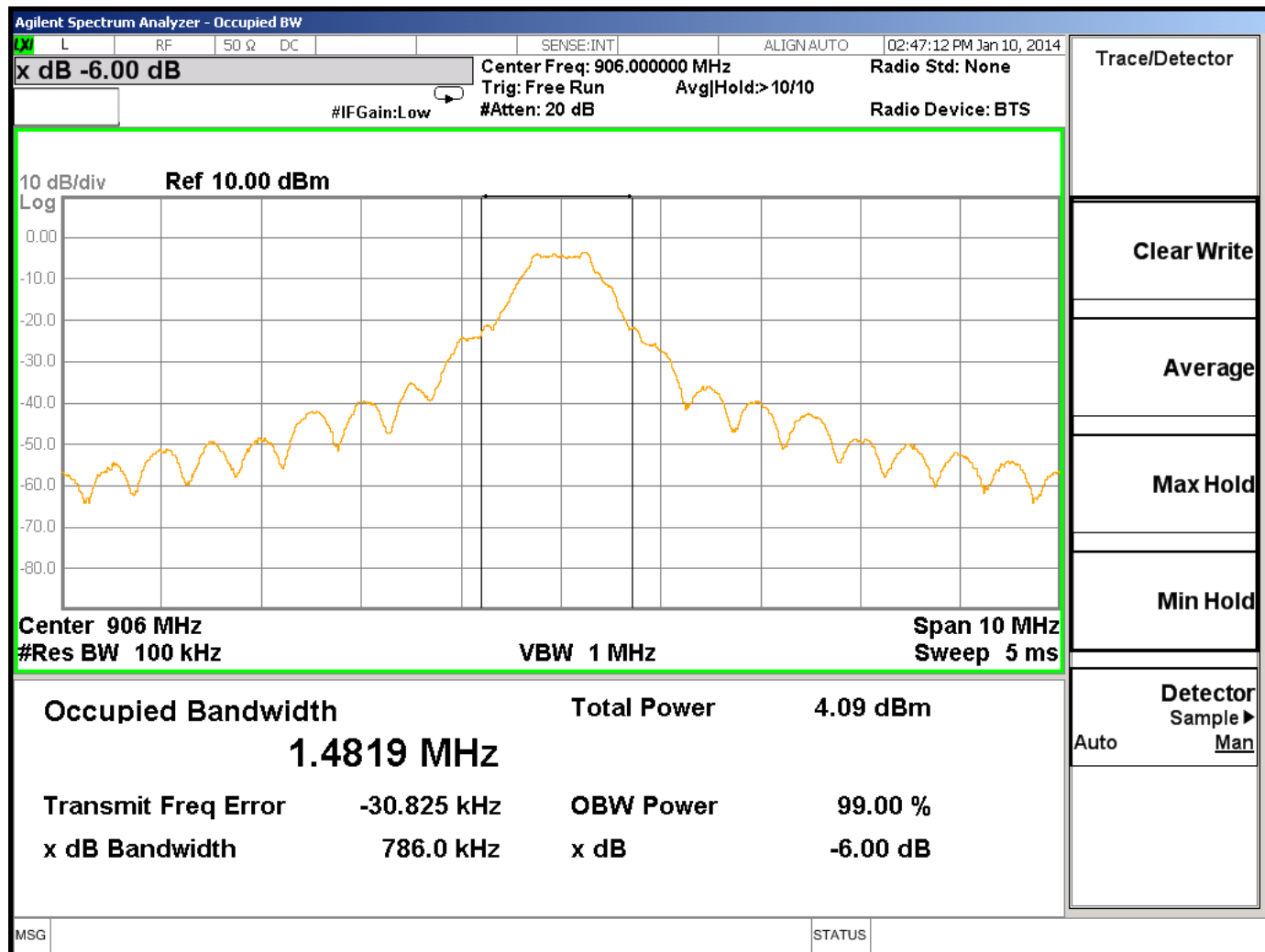


Figure 58 99% Power Bandwidth Graphs – Middle Channel

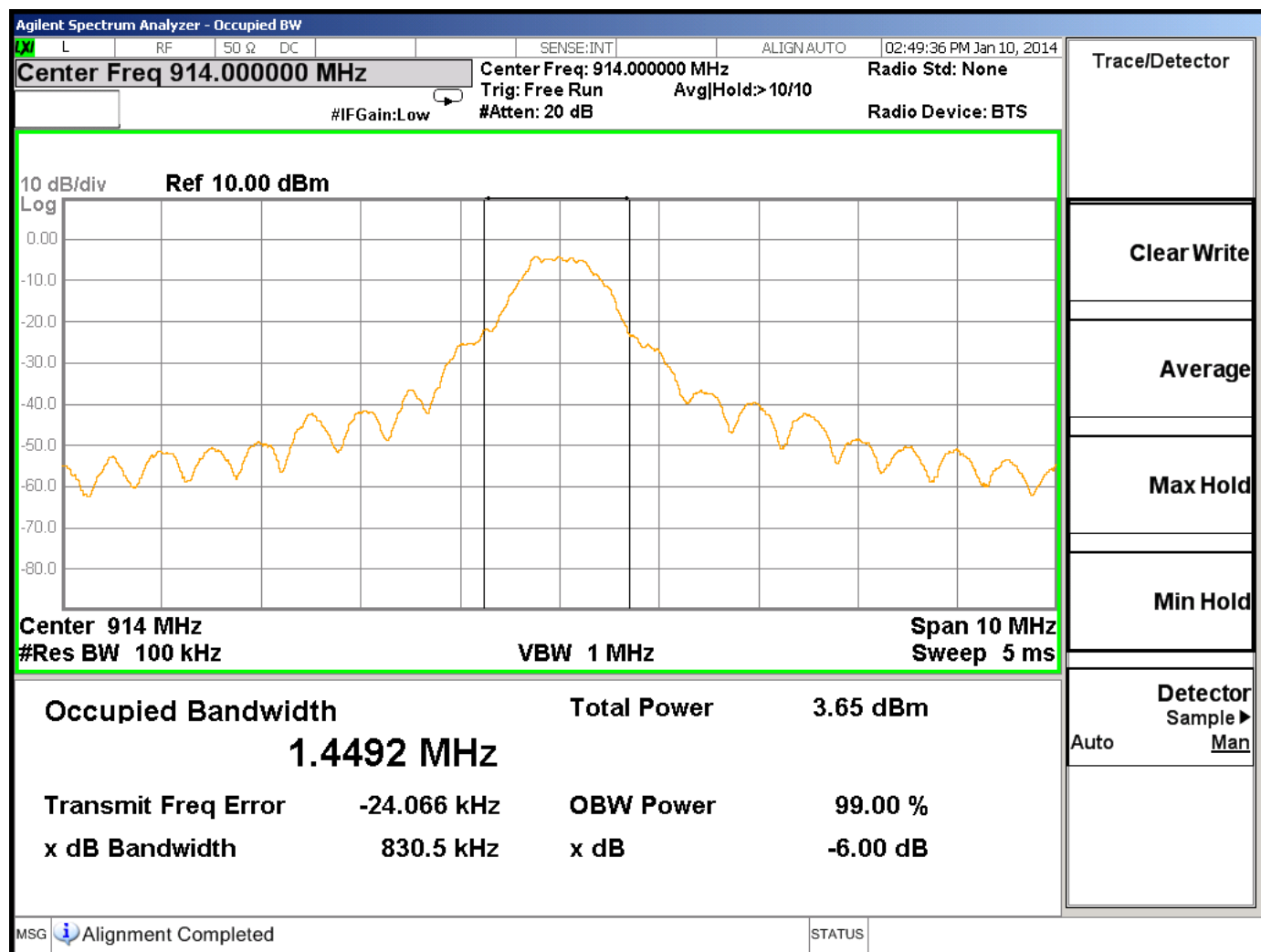
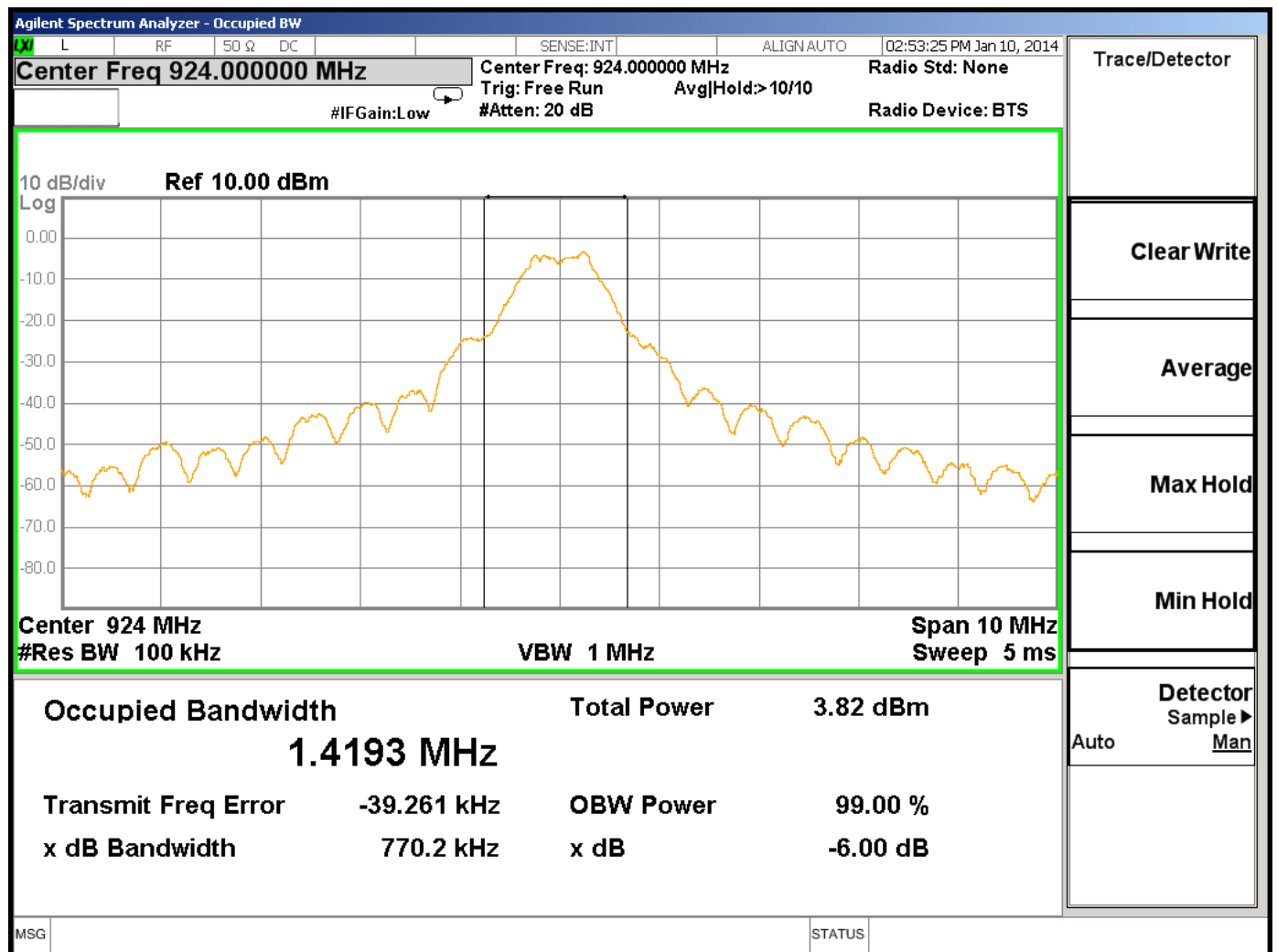


Figure 59 99% Power Bandwidth Graphs – High Channel



4.8 Test Conditions and Results – Duty Cycle Data

Test Description	Duty cycle was measured over 100mS period.
Basic Standard	none

Table 59 Duty Cycle Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
5	1	1
Supplementary information: Manufacturer declared worst case duty cycle (-12.65dB) was used for radiated spurious emissions average level calculation.		

Duty Cycle Correction Factor based on Measurements

Single Burst On Time	4.22mS
Maximum number of bursts captured in 100mS	2
Duty Cycle Calculation: $20 \times \log(8.44/100) = -21.47\text{dB}$	

Duty Cycle Correction Factor based on information provided by the manufacturer**Calculation of maximum duty cycle of RF transmissions**

In this section the maximum duty cycle of the RF transmissions is demonstrated by means of a calculation. The following hypothetical case is considered.

- In two consecutive timeslots a data package with maximum length is transmitted.
- In these same two timeslots the device receives the maximum possible number of messages it has to give an acknowledgement on.

In reference 4 a calculation is made based on this worst case condition. It is very hard, if not impossible to create a test bed that will simulate this condition. Even in this hypothetical condition, during a timeframe of 100ms the device under test can transmit only:

- 2 messages with a maximum length of 132 Bytes. Duration: 4224μs
- 58 acknowledgements on message with 31 Bytes length Duration: 14848μs
- Total transmit time. Duration: 23296μs

The duty cycle is limited to 23.296%

Conclusions

In the worst case condition the Duty Cycle of transmissions in the Starsense system is limited to 23.296%.

The average field strength of any spurious emission during any 100ms period is:

$20 \times \log(23.296/100) = -12.65\text{dB}$

Figure 60 Duty Cycle – Single Burst Duration

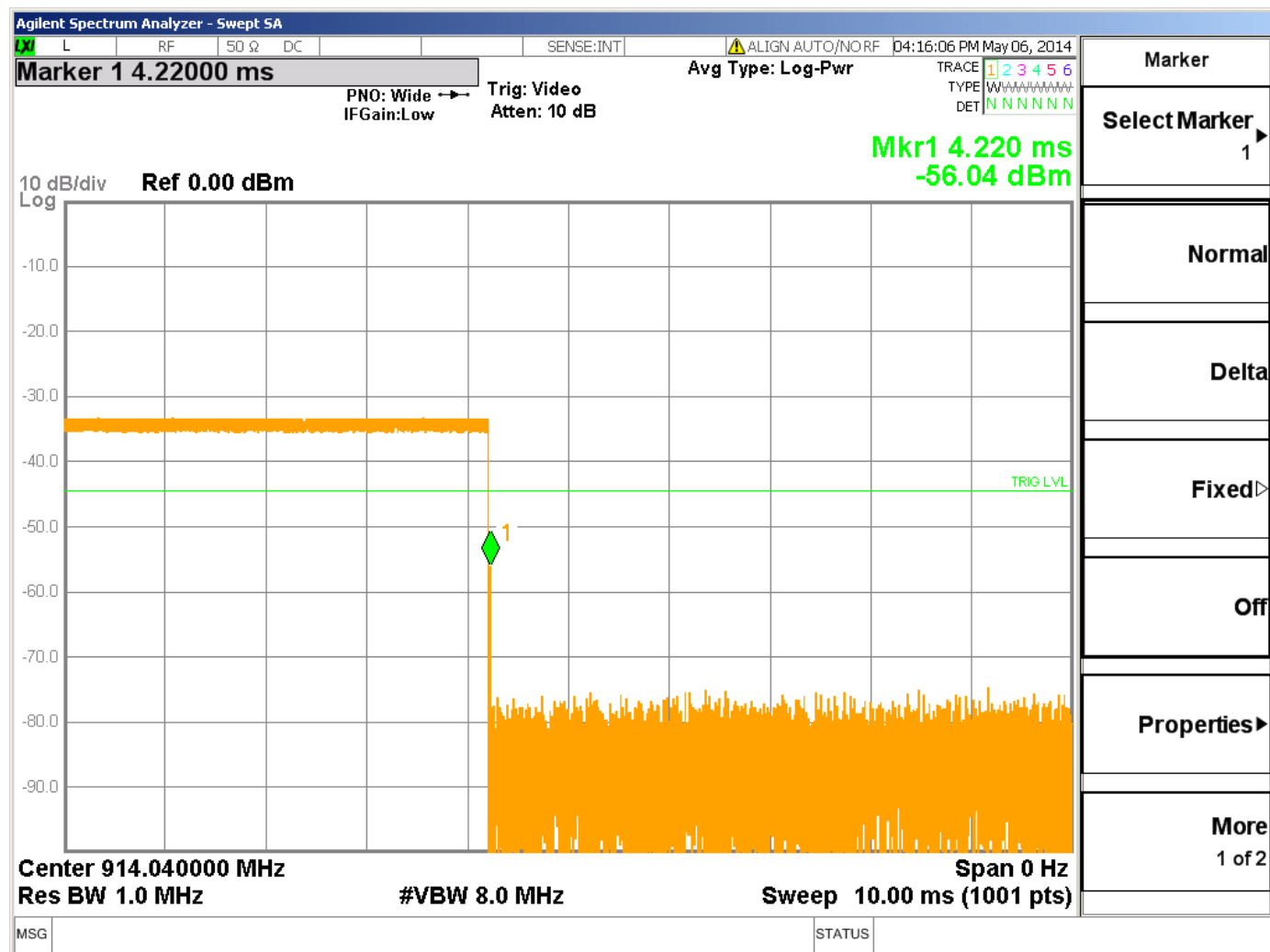
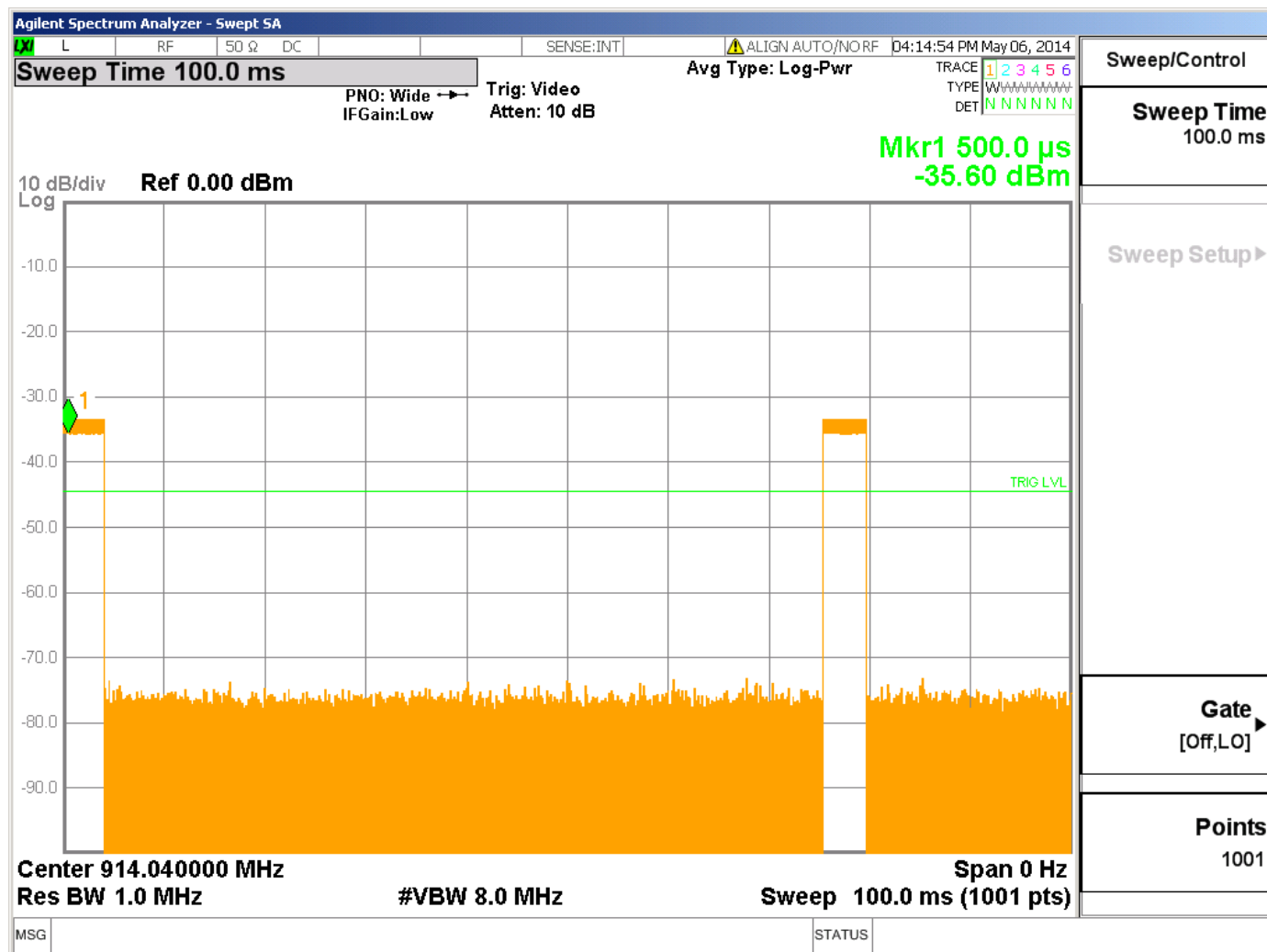


Figure 61 Duty Cycle – Number of Burst over 100mS (attempt to capture worst case)



Appendix A

Test Setup Photos

Figure 62 – Radiated Emissions



Figure 63 – Module under plastic cover installed on a host.

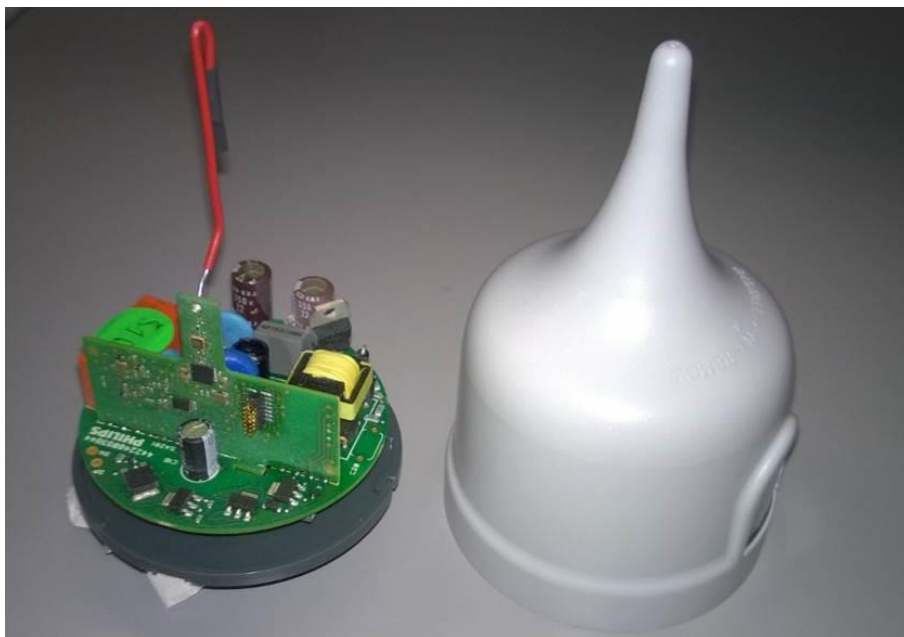
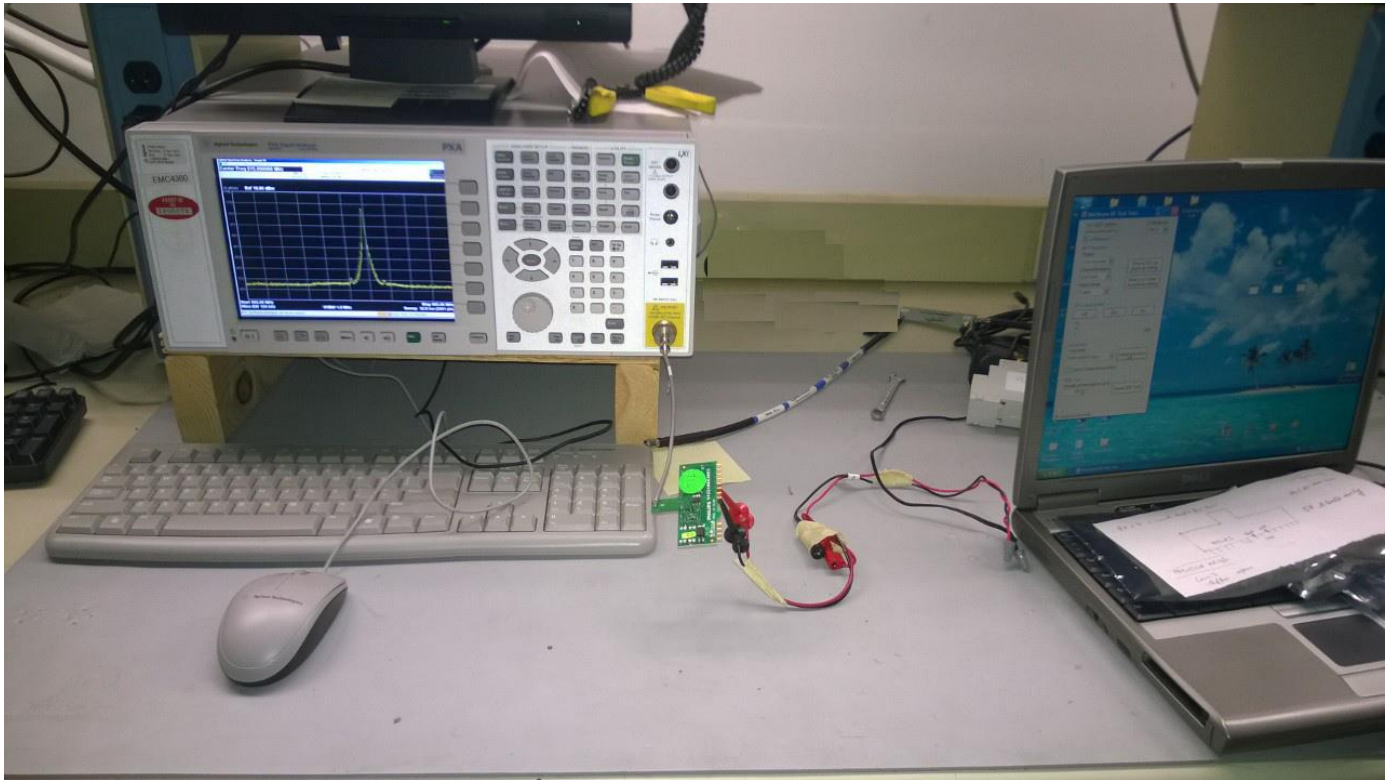


Figure 64 – Line Conducted Emissions



Figure 65 – Antenna Port Measurements



Appendix B**Test Equipment List****Table 60 Antenna Port Measurements Test Equipment**

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	Agilent	N9030A	EMC4360	20131221	20141221
Attenuator w/ Cable	Mini Circuits	-	-	*N/A	N/A
* Cable and attenuator were characterized at the time of testing					

Table 61 Line conducted Emissions Test Equipment

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	Dec 30, 2013	Dec 30, 2014
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	Jan 15, 2014	Jan 16, 2015
LISN - L2	Solar	8602-50-TS-50-N	EMC4064	Jan 15, 2014	Jan 16, 2015

Table 62 Radiated Emissions Test Equipment

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	20131227	20141231
Bicon Antenna	Electro-Metrics	EM6912A	EMC4070	20130806	20140830
Log-P Antenna	Chase	UPA6109	EMC4313	20131003	20141003
Spectrum Analyzer	Rhode & Schwarz	FSEK	EMC4182	20131226	20141231
Antenna Array	UL	BOMS	EMC4276	20130912	20140930

Appendix C

Accreditations and Authorizations



NVLAP Lab code: 100414-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see <http://ts.nist.gov/standards/scopes/1004140.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91044).



Industry Canada Industrie Canada

Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2180



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: Radiated Emissions R-621, Conducted Emissions C-642.



ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).



NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 2004/108/EC, Annex III (2-3). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6

