

PERMISSIVE CHANGE TEST REPORT

Report Number.: 12229356D

Applicant : Philips Lighting North America Corporation

10275 W. Higgins Rd. Rosemont, IL 60018

Model: SNS400

FCC ID : 2AF2N-SNS200

ISED ID: 20659-SNS200

EUT Description: Ceiling Luminaire Mounted Light Sensor with 2.4GHz radio

Test Standard(s): FCC 47 CFR PART 15 SUBPART C

ISED RSS-247 ISSUE 2

Date Of Issue: 2018-06-29

Prepared by:

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REPORT NO: 12229356D DATE: 2018-06-29 FCC ID:2AF2N-SNS200 ISED ID: 20659-SNS200

REPORT REVISION HISTORY

Rev.	issue Date	Revisions	Revised By
1.0	2018-06-29	Original Issue	BM

DATE: 2018-06-29 ISED ID: 20659-SNS200

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Philips Lighting North America

EUT DESCRIPTION: ceiling luminaire mounted light sensor with 2.4GHz radio

MODEL: SNS400

SERIAL NUMBER: see section 5.6

DATE TESTED: 2018-04-17 TO 2018-04-17

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C Compliant

ISED RSS-247 Issue 2 Compliant

ISED RSS-GEN Issue 5 Compliant

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

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

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Staff Engineer

UL LLC

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, RSS-GEN Issue 5, and RSS-247 Issue 2.

3. FACILITIES AND ACCREDITATION

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

333 Pfingsten Road								
\boxtimes	Chamber 10m (ISED:2180A-1)							

UL LLC is accredited by NVLAP, Laboratory Code 1004141-0. The full scope of accreditation can be viewed at https://www.nist.gov/nvlap.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + *Path Factor (dB) Example: 28.9dBuV/m = 36.5 dBuV + 18.7 dB/m + (-27.5) dB

*Path factor may include cable, preamp and attenuators. Positive path factor indicates losses only and negative path factor indicates gain (preamp).

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB

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

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5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a ceiling luminaire mounted light sensor with 2.4GHz ZigBee type radio. All the hardware in SNS400 is electronically identical to hardware in SNS201.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency	Mode	Output Power	Output Power		
Range		(dBm)	(mW)		
2405 - 2475	TX	1.420	1.39		

^{*} power measurements are from the original model SNS201 (UL Test Report # 12229356A)

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an Inverted F PCB antenna, with a maximum gain of 0.7dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was: FCC Mode V0.30

The test utility software used during testing was: none

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated Spurious Emissions between 1GHz to 25GHz were performed with the EUT set to transmit at the intended power setting on low, middle and high channels.

The EUT is Luminaire mounted only therefore all radiated spurious emissions were conducted in single orientation.

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5.6. DESCRIPTION OF TEST SETUP

EUT and SUPPORT EQUIPMENT

Support Equipment List										
Description	Manufactu	Model	Serial Number	FCC ID						
EUT - Antenna Port	Philips	SNS400	-	2AF2N-SNS200						

I/O CABLES

	I/O Cable List											
Cable No		# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks						
1	DC Input	1	Wire	solid	30cm	-						

TEST SETUP

Frequencies and modes of operation are varied by setting the initial input voltage to pre-defined level. Once mode is set the voltage is raised to 20VDC.

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SETUP DIAGRAM FOR RADIATED TESTS



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6. MEASUREMENT METHOD

Out-of-band emissions in restricted bands: ANSI C63.10, section 11.12.1

Band-edge: ANSI C63.10, section 11.12.1

7. TEST AND MEASUREMENT EQUIPMENT

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

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due Date
Antenna Array	UL	BOMS	EMC4276	01/16/2018	01/31/2019
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	12/20/2017	12/31/2018
Spectrum Analyzer	Agilent	N9030A (PXA)	EMC4360	12/28/2017	12/31/2018
EMI Test Receiver	Rohde & Schwarz	ESR	EMC4377	12/23/2017	12/31/2018
Transient Limiter	Electro-Metrics	EM7600-2	EMC4224	N/A	N/A
High Pass Filter	Solar Electronics	2803-150	EMC4327	N/A	N/A
Attenuator	HP	8494B	2831A00838	N/A	N/A
LISN - L1	Solar	8602-50-TS-50-N	EMC4066	12/29/2017	12/31/2018
LISN - L2	Solar	8602-50-TS-50-N	EMC4064	12/29/2017	12/31/2018

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

LIMITS

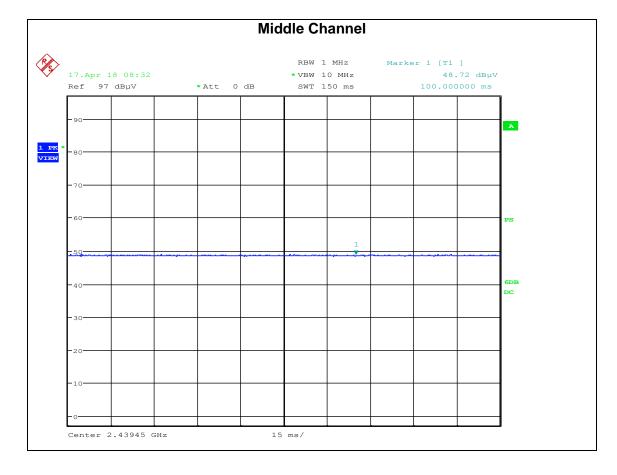
None; for reporting purposes only.

PROCEDURE

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time	Period	Duty Cycle	Duty	Duty Duty Cycle 1/	
	В		x	Cycle Correction Fact		Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
TX Mode	100.000	100.000	1.000	100.00%	0.00	0.010

DUTY CYCLE PLOT



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9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters for frequencies 9kHz-30MHz and 1GHz-25GHz. For frequencies 30MHz-1GHz the antenna distance is 10m. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. The particular averaging method used for this test program was RMS.

The spectrum from 30MHz to 25 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. For frequencies 9kHz-30MHz random channels was used.

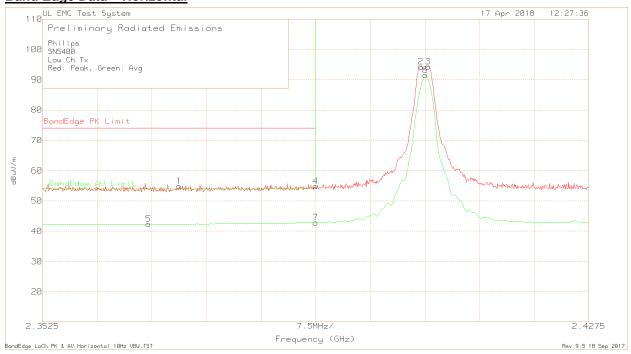
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For frequencies 9kHz-30MHz no height scan was conducted.

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9.2. TRANSMITTER 1GHz - 25GHz

9.2.1. Low Channel

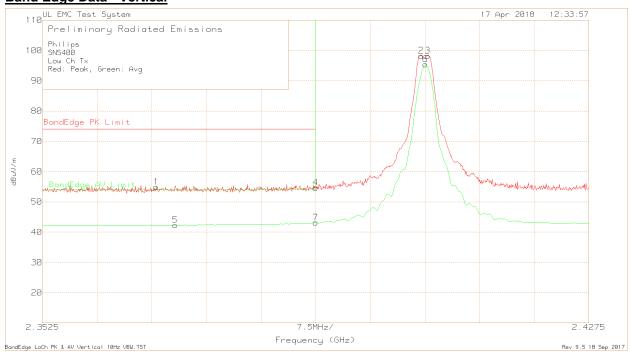
Band Edge Data - Horizontal



Philips													
SNS400													
Low Ch	Tx												
	Test	Meter		Antenna	Path		Peak		Av erage				
Marker	Frequency	Reading		Factor	Factor	Lev el	Limit	Margin	Limit	Margin	Azimuth	Height	
No.	(GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
1	2.3713	28.39	Pk	21.8	4.64	54.83	74	-19.17	-	-	231	140	Н
2	2.4044	67.81	Pk	21.8	4.68	94.29	-	-	-	-	231	140	Н
3	2.4054	67.79	Pk	21.8	4.68	94.27	-	-	-	-	231	140	Н
4	2.39	28.22	Pk	21.8	4.79	54.81	74	-19.19	-	-	231	140	Н
5	2.3671	15.87	Av	21.8	4.64	42.31	-	-	54	-11.69	231	140	Н
6	2.4051	65	Av	21.8	4.68	91.48	-	-	-	-	231	140	Н
7	2.39	16.25	Av	21.8	4.79	42.84	-	-	54	-11.16	231	140	Н
Pk - Pea	k detector												
Av - Ave	erage Detector												

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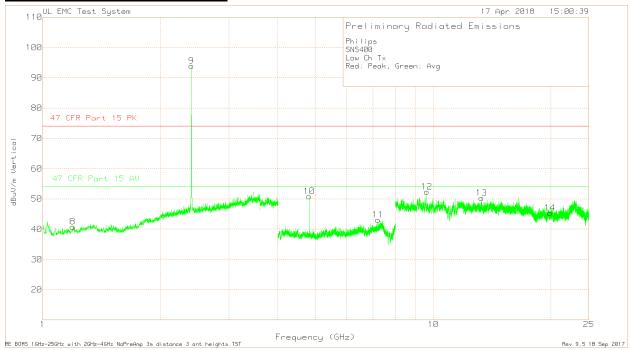
Band Edge Data - Vertical

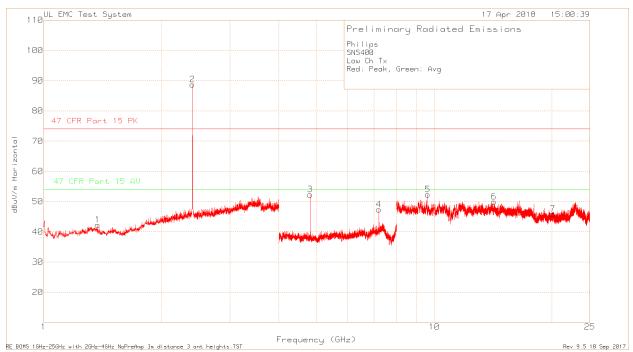


Philips													
SNS400													
Low Ch	Tx												
	Test	Meter		Antenna	Path		Peak		Av erage				
Marker	Frequency	Reading		Factor	Factor	Lev el	Limit	Margin	Limit	Margin	Azimuth	Height	
No.	(GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
1	2.3681	28.48	Pk	21.8	4.63	54.91	74	-19.09	-	-	190	140	V
2	2.4045	71.75	Pk	21.8	4.68	98.23	-	-	-	-	190	140	V
3	2.4054	71.74	Pk	21.8	4.68	98.22	-	-	-	-	190	140	V
4	2.39	28.07	Pk	21.8	4.79	54.66	74	-19.34	-	-	190	140	V
5	2.3707	15.87	Av	21.8	4.64	42.31	-	-	54	-11.69	190	140	V
6	2.4051	68.95	Av	21.8	4.68	95.43	-	-	-		190	140	V
7	2.39	16.54	Av	21.8	4.79	43.13	-	-	54	-10.87	190	140	V
Pk - Pea	k detector												
Av - Av erage Limit													

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Spurious Emissions 1GHz - 25GHz





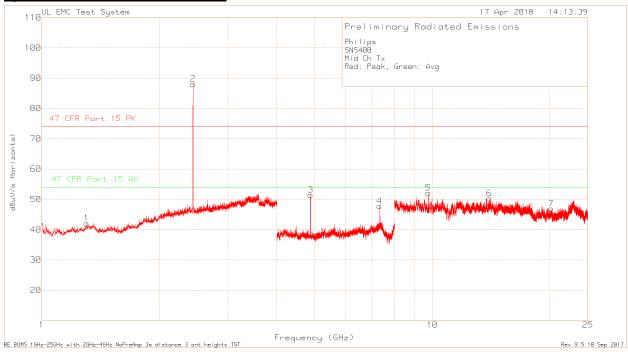
^{*} Last line in title block in above plots should say RED: Horizontal GRN: Vertical

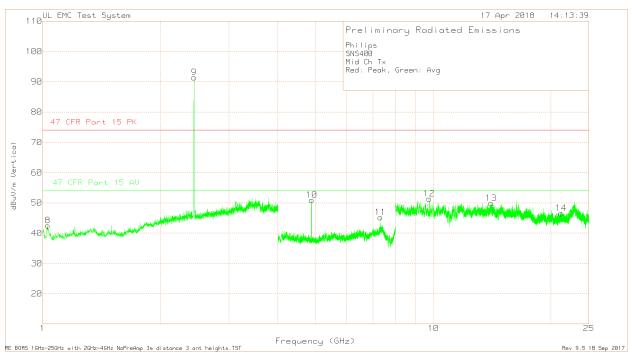
Av - Average detection

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9.2.2. Middle Channel

Spurious Emissions 1GHz - 25GHz





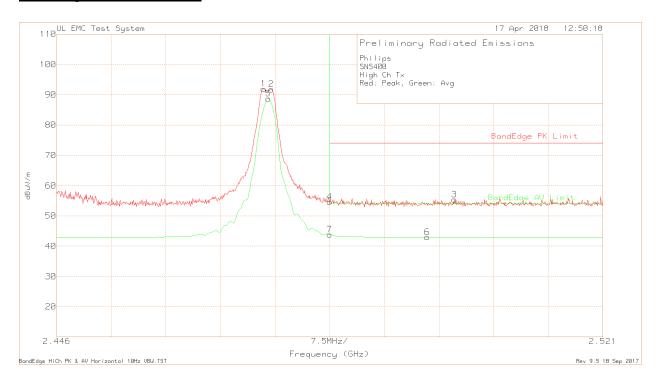
^{*} Last line in title block in above plots should say RED: Horizontal GRN: Vertical

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	1											
Philips												
SNS400												
Mid Ch Tx												
Trace MArkers												
Test	Meter		Antenna	Path		Peak		Av erage				
Marker Frequency	1 -		Factor	Factor	Lev el	Limit	Margin	Limit	_		Height	
No. (GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
1 1.3	_	1	29.1	-55.6		74	-31.97	54		0-360	100	
2 2.	14 61.6	Pk	21.9	4.61	88.11	74	14.11	54		0-360	100	
3 4.8	79 74.58	Pk	27.7	-50.81	51.47	74	-22.53	54	-2.53	0-360	100	Н
4 7.3	22 63.2	Pk	30.6	-46.01	47.79	74	-26.21	54	-6.21	0-360	100	Н
5 9.7	65.01	Pk	36.4	-49.31	52.1	74	-21.9	54	-1.9	0-360	100	Н
6 13.9	39 53.29	Pk	39.9	-42.89	50.3	74	-23.7	54	-3.7	0-360	100	Н
7 20.	15 56.27	Pk	40.2	-49.59	46.88	74	-27.12	54	-7.12	0-360	150	Н
8 1.	71.56	Pk	26.9	-55.98	42.48	74	-31.52	54	-11.52	0-360	200	V
9 2.	14 64.87	Pk	21.9	4.61	91.38	74	17.38	54	37.38	0-360	200	V
10 4.8	74.01	Pk	27.7	-50.78	50.93	74	-23.07	54	-3.07	0-360	200	V
11 7.3	22 60.6	Pk	30.6	-46.01	45.19	74	-28.81	54	-8.81	0-360	100	V
12 9.7	64.23	Pk	36.4	-49.26	51.37	74	-22.63	54	-2.63	0-360	100	V
13 14.0	57 52.86	Pk	39.9	-42.93	49.83	74	-24.17	54	-4.17	0-360	150	V
14 21.2	33 53.53	Pk	40.2	-47.2	46.53	74	-27.47	54	-7.47	0-360	200	V
Radiated Emission	Data											
Test	Meter		Antenna	Path		Peak		Av erage				
Frequency	Reading		Factor	Factor	Lev el	Limit	Margin	Limit	Margin	Azimuth	Height	
(GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
4.88	09 75.15	Pk	27.7	-50.79	52.06	74	-21.94	-	-	18	-	
4.88	09 69.06	Av	27.7	-50.79	45.97	-	-	54	-8.03	18	100	Н
7.31	35 64.47	Pk	30.6	-46.01	49.06	74	-24.94	-	-	328	100	Н
7.32	12 55.92	Av	30.6	-46.01	40.51	-	-	54	-13.49	328	100	Н
9.75	75 65.29	Pk	36.4	-49.26	52.43	74	-21.57	-	-	75	100	Н
9.76	18 56.76	Av	36.4	-49.3	43.86	-	-	54	-10.14	75	100	Н
4.87	39 74.31	Pk	27.7	-50.81	51.2	74	-22.8	-	-	359	166	V
4.88	08 68.18	Av	27.7	-50.79	45.09	-	-	54	-8.91	359	166	V
7.31	62.03	Pk	30.6	-46.01	46.62	74	-27.38	-	-	340	100	V
7.32	12 53.32	Av	30.6	-46.01	37.91	-	-	54	-16.09	340	100	V
9.76	17 64.54	Pk	36.4	-49.3	51.64	74	-22.36	-	-	85	201	V
9.76	18 54.73	Av	36.4	-49.3	41.83	-	-	54	-12.17	85	201	V
Pk - Peak detector												
Av - Av erage detec	tion											

9.2.3. High Channel

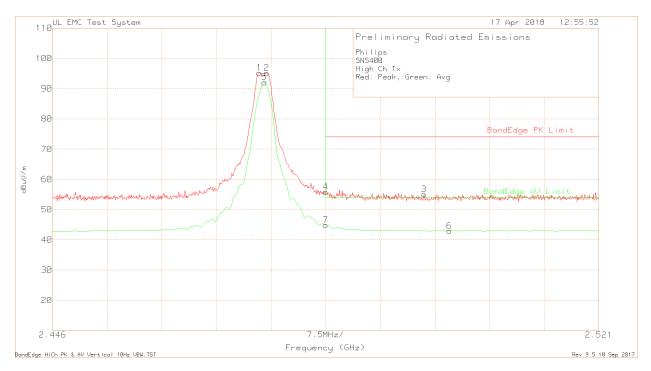
Band Edge Data - Horizontal



Philips													
SNS400													
High Ch	Tx												
	Test	Meter		Antenna	Path		Peak		Av erage				
Marker	Frequency	Reading		Factor	Factor	Lev el	Limit	Margin	Limit	Margin	Azimuth	Height	
No.	(GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
1	2.4744	65.41	Pk	22	4.49	91.9	-	-	-	•	232	135	Н
2	2.4755	65.3	Pk	22	4.48	91.78	-	-	-	-	232	135	Н
3	2.5006	28.8	Pk	22.1	4.42	55.32	74	-18.68	-		232	135	Н
4	2.4835	28.03	Pk	22.1	4.44	54.57	74	-19.43	-	1	232	135	Н
5	2.4751	62.23	Av	22	4.48	88.71	-	-	-	-	232	135	Н
6	2.4969	16.39	Av	22.1	4.41	42.9	-	-	54	-11.1	232	135	Н
7	2.4835	17.26	Av	22.1	4.44	43.8	-	-	54	-10.2	232	135	Н
Pk - Pea	k detector												
Av - Ave	erage Measur	ement											

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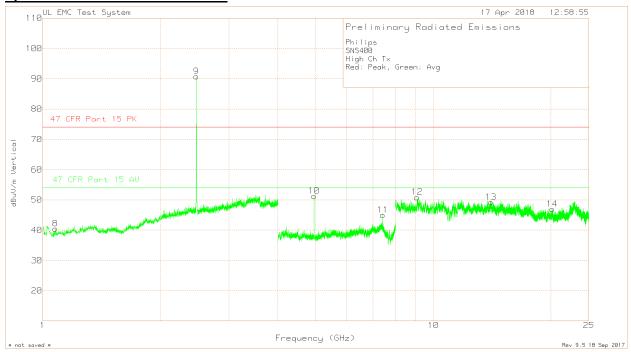
Band Edge Data Vertical

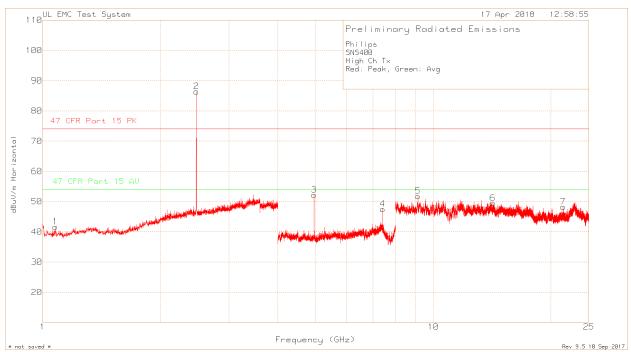


Philips													
SNS400													
High Ch	Tx												
	Test	Meter		Antenna	Path		Peak		Av erage				
Marker	Frequency	Reading		Factor	Factor	Lev el	Limit	Margin	Limit	Margin	Azimuth	Height	
No.	(GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
1	2.4744	68.71	Pk	22	4.49	95.2	-	-	i	-	199	137	V
2	2.4754	68.65	Pk	22	4.48	95.13	-	-	-	-	199	137	V
3	2.497	28.52	Pk	22.1	4.41	55.03	74	-18.97	i	•	199	137	V
4	2.4835	29.35	Pk	22.1	4.44	55.89	74	-18.11	i	•	199	137	V
5	2.4751	65.59	Av	22	4.48	92.07	-	-	i	•	199	137	V
6	2.5005	16.4	Av	22.1	4.42	42.92	-	-	54	-11.08	199	137	V
7	2.4835	18.31	Av	22.1	4.44	44.85	-	-	54	-9.15	199	137	V
Pk - Pea	Pk - Peak detector												
Av - Ave	erage Detector												

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Spurious Emissions 1GHz - 25GHz



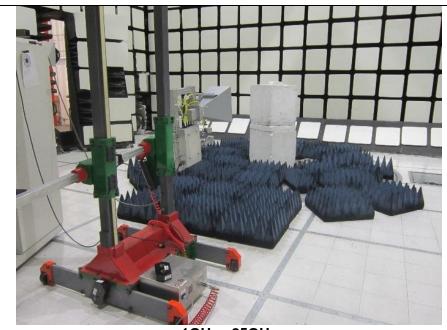


^{*} Last line in title block in above plots should say RED: Horizontal GRN: Vertical

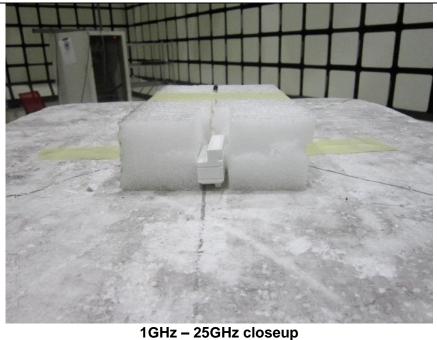
r													
Philips													
SNS400													
High Ch	Tx												
Red: Pea	ak, Green: Av	g											
Trace M	Arkers												
	Test	Meter		Antenna	Path		Peak		Av erage				
Marker	Frequency	Reading		Factor	Factor	Lev el	Limit	Margin	Limit		Azimuth	Height	
No.	(GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
1	1.077	70.7	Pk	27.1	-56.13	41.67	74	-32.33	54	-12.33	0-360	150	Н
2	2.475	59.9	Pk	22	4.48	86.38	74	12.38	54	32.38	0-360	100	Н
3	4.951	74.39	Pk	27.8	-49.99	52.2	74	-21.8	54	-1.8	0-360	100	Н
4	7.427	63.83	Pk	30.8	-47.11	47.52	74	-26.48	54	-6.48	0-360	150	Н
5	9.135	63.3	Pk	36.3	-47.85	51.75	74	-22.25	54	-2.25	0-360	200	Н
6	14.193	51.96	Pk	39.9	-42.32	49.54	74	-24.46	54	-4.46	0-360	149	Н
7	21.485	54.51	Pk	40.3	-46.57	48.24	74	-25.76	54	-5.76	0-360	100	Н
8	1.078	69.49	Pk	27.2	-56.25	40.44	74	-33.56	54	-13.56	0-360	100	V
9	2.475	64.29	Pk	22	4.48	90.77	74	16.77	54	36.77	0-360	100	V
10	4.951	73.47	Pk	27.8	-49.99	51.28	74	-22.72	54	-2.72	0-360	200	٧
11	7.427	61.31	Pk	30.8	-47.11	45	74	-29	54	-9	0-360	100	
12	9.088	62.71	Pk	36.2	-48.04	50.87	74	-23.13	54	-3.13	0-360	100	V
13	14.038	52.2	Pk	39.9	-42.88	49.22	74	-24.78	54	-4.78	0-360	150	V
14	20.142	56.6		40.2	-49.86	46.94	74	-27.06	54		0-360	150	
	Emission Da												
rtadiatod	Test	Meter		Antenna	Path		Peak		Av erage				
	Frequency	Reading		Factor	Factor	Lev el	Limit	Margin	Limit	Margin	Azimuth	Height	
	(GHz)	(dBuV)	Detector	dB/m	dB	dBuV/m	dBuV/m	(dB)	dBuV/m	(dB)	[Degs]	[cm]	Polarity
	4.9509	74.49	Pk	27.8	-49.99	52.3	74	-21.7	-	-	14	100	Н
	4.9509	68.66	Av	27.8	-49.99	46.47	-	-	54	-7.53	14	100	Н
	7.4265	64.5	Pk	30.8	-47.11	48.19	74	-25.81	-	-	335	144	Н
	7.4262	56.18	Av	30.8	-47.11	39.87	-	-	54	-14.13	335	144	Н
	3.5001	17.22	Avg	23.5	5.52	46.24	-	-	54	-7.76	360	100	V
	4.9489			27.8		51.02	74	-22.98	-	-	0		
	4.9509	67.56		27.8		45.37		-	54	-8.63		198	
	7.4261			30.8				-28.43	_	-	360		
	7.4262			30.8	-47.11			-	54	-17.95	360		
Pk - Pea	k detector	32.00								50	100	. 30	
	deo < Resolut	ion bandw	idth Loa IF										
	erage detection												
		-											

10. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP



1GHz - 25GHz



END OF REPORT

DATE: 2018-06-29