APPLICATION FOR CERTIFICATION

On Behalf of Philips (China) Investment Co., Ltd. LED Lamps

Model No. : 9290002761

Brand : Philips

FCC ID : O3M9290002761X

Prepared for

Philips (China) Investment Co., Ltd.

No. 9, Lane 888, Tian Lin Road, 200233, Shanghai, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.

No. 1289 Jiangxing East Road, the Part of Wujiang Economic Development Zone Jiangsu China 215200

> Tel: +86-512-63403993 Fax: +86-512-63403339

Report Number : ACWE-F103002

Date of Test : Nov.23,2013~Feb.24,2014

Date of Report : Mar.11,2014

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TEST REPORT CERTIFICATION

Applicant Philips (China) Investment Co., Ltd.

Manufacturer #1 Changan Win Channel Electronics Company Limited

Manufacturer #2 Arts Electronics Co., Ltd.

EUT Description LED Lamps

FCC ID O3M9290002761X

(A) Model No. 9290002761

(B) Brand Philips

AC 110-130V; 50/60Hz; 9W (C) Power Supply

(D) Test Voltage AC 120V, 60Hz

Applicable Standards:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2012 ANSI C63.4-2003 KDB 558074 D01 DTS Meas Guidance v03r01

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.207, 15.205, 15.209&15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Nov.23,2013~Feb.24,2014 Date of Report: Mar.11,2014

Prepared by

(Tina Zhang/Assistant)

Reviewer

(Jingo Lin/Section Manager)

Approved & Authorized Signer

(Ken Lu/ Assistant General Manager)

1. SUMMARY OF MEASUREMENTS AND RESULTS

The EUT has been tested according to the applicable standards and test results are referred as below.

Description of Test Item	Standard	Results	Remark	
CONDUCTED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.207 And ANSI C63.4-2003 And KDB 558074 D01 DTS Meas Guidance v03r01	PASS	Minimum passing margin is 0.19 dB at 16.16 MHz	
RADIATED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.209& Section 15.205 And ANSI C63.4-2003 And KDB 558074 D01 DTS Meas Guidance v03r01	PASS	Minimum passing margin is 3.08 dB at 2483.50 MHz	
6 dB BANDWIDTH	FCC 47 CFR Part 15 Subpart C/ Section 15.247(a)(2) And ANSI C63.4-2003 And KDB 558074 D01 DTS Meas Guidance v03r01	PASS	Minimum passing margin is 78.6kHz at CH11	
MAXIMUM PEAK OUTPUT POWER	FCC 47 CFR Part 15 Subpart C/ Section 15.247(b)(3) And ANSI C63.4-2003 And KDB 558074 D01 DTS Meas Guidance v03r01	PASS	Minimum passing margin is 22.397dB at CH11	
BAND EDGES	FCC 47 CFR Part 15 Subpart C/ Section 15.247(d) And ANSI C63.4-2003 And KDB 558074 D01 DTS Meas Guidance v03r01	PASS		
POWER SPECTRAL DENSITY	FCC 47 CFR Part 15 Subpart C/ Section 15.247(e) And ANSI C63.4-2003 PASS And KDB 558074 D01 DTS Meas Guidance v03r01		Minimum passing margin is 20.824dB at CH11	
EMISSION LIMITATIONS	FCC 47 CFR Part 15 Subpart C/ Section 15.247(d) And ANSI C63.4-2003 And KDB 558074 D01 DTS Meas Guidance v03r01	PASS		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description LED Lamps :

Model No. 9290002761 :

FCC ID O3M9290002761X

Brand **Philips**

Applicant Philips (China) Investment Co., Ltd.

No. 9, Lane 888, Tian Lin Road, 200233, Shanghai, China

Manufacturer #1 Changan Win Channel Electronics Company Limited

> No.85, Tong Gu Xia Lu, Shangjiao Community, Changan Town, Dongguan City, Guangdong Province, China

Manufacturer #2 Arts Electronics Co., Ltd.

Shangxing Lu, Shangjiao Community, Changan Town,

Dongguan Guangdong523000 China

Radio Technology IEEE 802.15.4 (ZigBee®)

Antenna Gain -8.5dBi

Fundamental Range 2405 MHz -2480MHz :

Tested Frequency 2405MHz (CH11) :

> 2450MHz (CH20) 2480MHz (CH26)

Highest Working 2.4GHz

Frequency

Date of Receipt of Sample Nov.20, 2013

Date of Test Nov.23,2013~Feb.24,2014 :

2.2. Description of Test Facility

Name of Firm : Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Site Location : No. 1289 Jiangxing East Road, the Eastern Part of

Wujiang Economic Development Zone

Jiangsu China 215200

Test Facilities : **No.1 Conducted Shielding Enclosure**

No.1 3m Semi-anechoic Chamber Date of Validity: May. 23, 2015 FCC Registration No.: 897661 IC Registration No.:5183D-2

RF Fully Chamber

NVLAP Lab Code : 200786-0

(NVLAP is a NATA accredited body under Mutual

Recognition Agreement) Valid until on Sep.30, 2014

2.3. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
Conducted Disturbance Measurement	$0.15MHz \sim 30MHz$	± 2.48dB
Radiated Disturbance Measurement	30MHz ~ 1000MHz	± 3.35dB (Horizontal)
(At 3m Chamber)	30MHZ ~ 1000MHZ	± 3.32dB (Vertical)
Radiated Disturbance Measurement	Above 1GHz	± 4.69dB
(At 3m Chamber)		± 4.09QD

Remark: Uncertainty = $ku_c(y)$

Test Item	Uncertainty		
6 dB Bandwidth	$\pm 3.1 \times 10^{-6} \mathrm{MHz}$		
Maximum Peak Output Power	± 0.30dB		
Band Edges	± 0.302dB		
Power Spectral Density	± 0.212dB		
Emission Limitations	± 0.24dB		

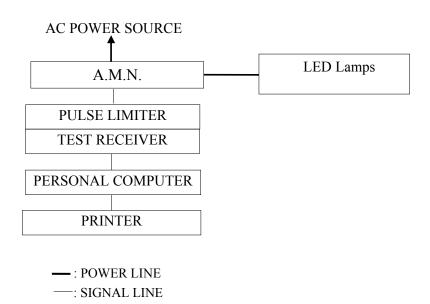
Remark: Uncertainty = $ku_c(y)$

3. CONDUCTED EMISSION MEASUREMET

3.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCI	100839	2014-01-05	2015-01-04
2.	A.M.N.	R & S	ESH2-Z5	100153	2013-05-17	2014-05-16
3.	L.I.S.N	Kyoritsu	KNW-407	8-1793-3	2013-08-06	2014-08-05
4.	Pulse Limiter	R&S	ESH3-Z2	100605	2013-08-06	2014-08-05
5.	RF Cable	Harbour Industries	RG400	003	2013-03-24	2014-03-23

3.2. Block Diagram of Test Setup



3.3. Power line Conducted Emission Limit

3.3.1. Power line Conducted Emission Limit (FCC Part 15, Section 15.207, Class B)

Frequency	Maximum RF Line Voltage		
	Quasi-Peak Level	Average Level	
150kHz ~ 500kHz	$66 \sim 56 \text{ dB}\mu\text{V}$	$56 \sim 46 \; dB \mu V$	
500kHz ~ 5MHz	56 dBμV	46 dBμV	
5MHz ~ 30MHz	60 dBμV	50 dBμV	

Remark1: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2: The lower limit applies at the band edges.

3.4. Test Procedure

The measuring process is according to ANSI C63.4-2003 and laboratory internal procedure TKC-301-004. (For FCC Part15 Subpart C)

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meters height above the ground plane, and 0.4 meters far away from the vertical plane. The EUT (installed in PC system) was powered by AC mains through Artificial Mains Network (A.M.N), other peripheral devices were powered by AC mains through the second Line Impedance Stabilization Network (L.I.S.N). For the measurement, the A.M.N measuring port was terminated by a 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω resistive load. All measurements were done on the phase and neutral line of the EUT's power cord. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz \sim 30 MHz) was pre-scanned with peak detector, the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is necessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level ($dB\mu V$) = Meter-Reading ($dB\mu V$) + A.M.N factor (dB) + Cable loss (dB). (Cable loss include pulse limiter loss)

3.5. Conducted Emission Measurement Results

3.5.1. Conducted Emission Measurement Results (For FCC Part15 Subpart C)

PASSED.

(All the emissions not reported below are too low against the prescribed limits.)

EUT was performed during this section testing and all the test results are attached in next pages.

Test Date: Feb.23,2014 Temperature: 17.7 Humidity: 41%

Mode	Test Condition	Reference Test Data No.			
	rest condition	Neutral	Line		
1	CH 11	# 5	# 6		
2	CH 20	# 7	# 8		
3	CH 26	# 9	# 10		

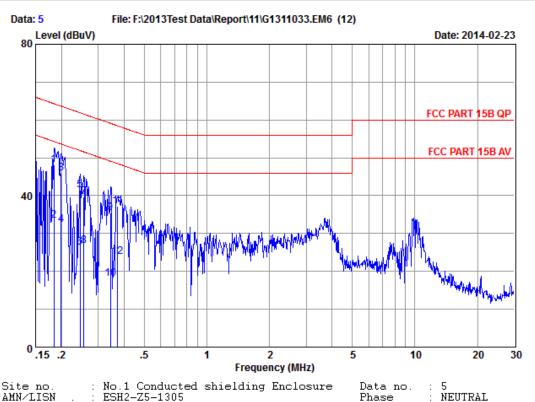
NOTE 1- 'means the worst test mode.

NOTE 2- The worst emission is detected at 0.19 MHz with emission level of 48.05 dB (μ V) and with QP detector (Limit is 64.21 dB (μ V)), when the Neutral of the EUT is connected to AMN.



Phase

Engineer : KM.Tong



No.1 Conducted shielding Enclosure ESH2-Z5-1305 FCC PART 15B QP 17.7*C&41%/ESCI Site no. AMN/LISN Limit Env. / Ins. LED Lamps 9290002761 EUT M/N

Power Rating : 120Vac/60Hz

Test mode CH11 Memo

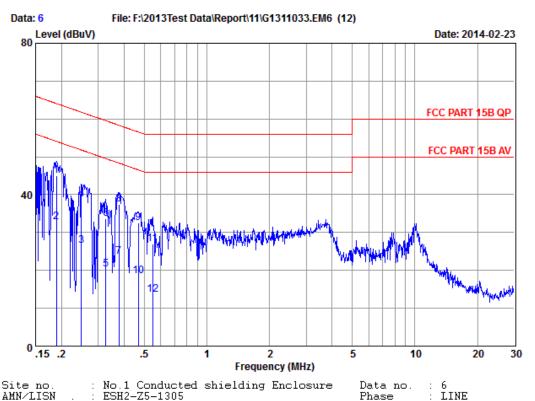
	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1 2 3 4 5 6 7 8 9 10	0.18 0.18 0.20 0.20 0.25 0.25 0.26 0.34 0.34	0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18	9.87 9.87 9.87 9.86 9.86 9.86 9.86 9.86	38.00 23.30 35.80 22.30 31.31 16.21 29.71 16.81 25.40 27.10	48.05 33.35 45.85 32.35 41.35 26.25 39.75 26.85 35.45 35.45 18.15	64.30 54.30 63.65 53.65 61.92 51.92 61.56 59.11 49.11 58.43	16.25 20.95 17.80 21.30 20.57 25.67 21.81 24.71 23.66 30.96 21.28	OP Average OP Average OP Average OP Average OP Average OP Average
12	0.37	0.19	9.86	13.80	23.85	48.43	24.58	Average

^{1.}Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



> Data no. Phase

Engineer : KM.Tong



No.1 Conducted shielding Enclosure ESH2-Z5-1305 FCC PART 15B QP 17.7*C&41%/ESCI Site no. AMN/LISN Limit Env. / Ins. LED Lamps 9290002761 EUT M/N

Power Rating : 120Vac/60Hz CH11

Test mode Memo

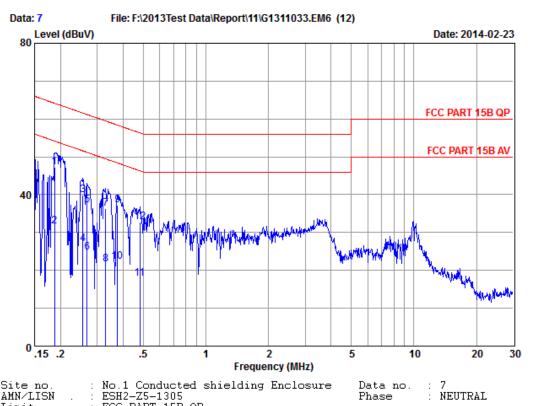
	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	0.24	9.87	34.90	45.01	64.08	19.07	QΡ
2	0.19	0.24	9.87	22.60	32.71	54.08	21.37	Average
3	0.25	0.25	9.86	16.41	26.52	51.79	25.27	Average
4	0.25	0.25	9.86	28.61	38.72	61.79	23.07	QP
5	0.33	0.27	9.86	10.10	20.23	49.55	29.32	Average
6	0.33	0.27	9.86	23.60	33.73	59.55	25.82	OP -
7	0.38	0.28	9.86	13.51	23.65	48.35	24.70	Äverage
8	0.38	0.28	9.86	27.31	37.45	58.35	20.90	QP
9	0.47	0.30	9.87	22.39	32.56	56.55	23.99	ÖΡ
10	0.47	0.30	9.87	8.29	18.46	46.55	28.09	Äverage
11	0.55	0.31	9.87	16.70	26.88	56.00	29.12	OP
12	0.55	0.31	9.87	3.50	13.68	46.00	32.32	Äverage
12	0.55	0.31	2.07	3.30	13.00	40.00	32.32	HVCLOGC

^{1.}Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Phase

Engineer : KM.Tong



: No.1 Conducted shielding Enclosure : ESH2-Z5-1305 : FCC PART 15B QP : 17.7*C&41%/ESCI Site no. AMN/LISN . Limit Env. / Ins. LED Lamps 9290002761 EUT

M/N Power Rating : 120Vac/60Hz

Test mode Memo

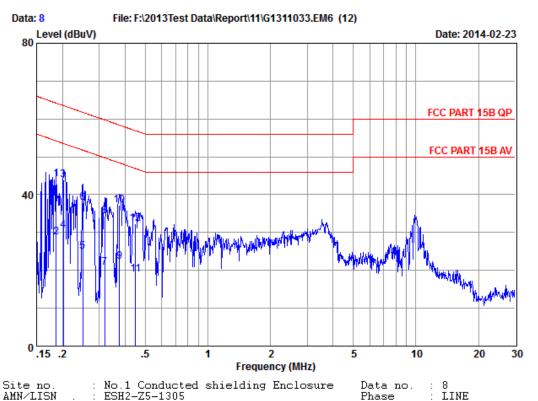
	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	0.18	9.87	37.30	47.35	64.17	16.82	QP
2	0.19	0.18	9.87	21.50	31.55	54.17	22.62	Average
3	0.26	0.18	9.86	29.91	39.95	61.56	21.61	QP
4	0.26	0.18	9.86	17.01	27.05	51.56	24.51	Average
5	0.27	0.18	9.86	27.21	37.25	61.18	23.93	OP -
6	0.27	0.18	9.86	14.61	24.65	51.18	26.53	Average
7	0.33	0.19	9.86	26.30	36.35	59.45	23.10	OP _
8	0.33	0.19	9.86	11.60	21.65	49.45	27.80	Äverage
9	0.38	0.19	9.86	27.10	37.15	58.39	21.24	QP
10	0.38	0.19	9.86	12.30	22.35	48.39	26.04	Äverage
11	0.48	0.19	9.87	7.80	17.86	46.32	28.46	Average
12	0.48	0.19	9.87	22.60	32.66	56.32	23.66	QP
12	0.40	0.17	2.07	22.00	02.00	30.02	20.00	Δr

^{1.}Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



> Data no. Phase

Engineer : KM.Tong



: No.1 Conducted shielding Enclosure : ESH2-Z5-1305 : FCC PART 15B QP : 17,7*C&41%/ESCI Site no. AMN/LISN . Limit Env. / Ins. LED Lamps 9290002761 EUT

M/N Power Rating : 120Vac/60Hz CH20

Test mode Memo

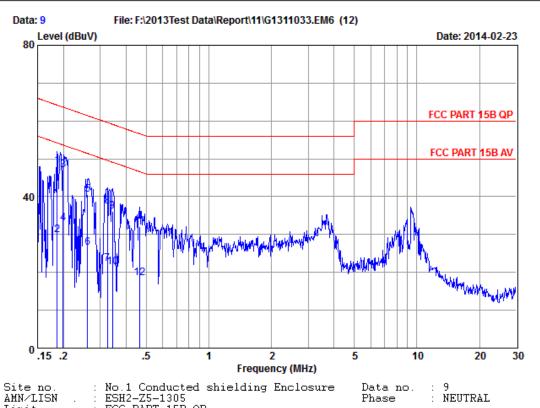
	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1 2	0.19	0.24	9.87 9.87	33.99 18.69	44.10 28.80	64.21 54.21	20.11 25.41	QP
3	0.19	0.24	9.87	33.80	43.91	63.53	19.62	Average OP
4	0.20	0.24	9.87	20.50	30.61	53.53	22.92	Average
5	0.25	0.25	9.86	14.81	24.92	51.76	26.84	Average
6	0.25	0.25	9.86	27.81	37.92	61.76	23.84	QP
7	0.32	0.27	9.86	10.70	20.83	49.73	28.90	Average
8	0.32	0.27	9.86	24.20	34.33	59.73	25.40	QP
9	0.38	0.28	9.86	12.11	22.25	48.39	26.14	Average
10	0.38	0.28	9.86	27.01	37.15	58.39	21.24	QP
11	0.45	0.29	9.87	8.70	18.86	46.89	28.03	Average
12	0.45	0.29	9.87	22.20	32.36	56.89	24.53	QP

^{1.}Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Phase

Engineer : KM.Tong



No.1 Conducted shielding Enclosure ESH2-Z5-1305 FCC PART 15B QP 17.7*C&41%/ESCI Site no. AMN/LISN Limit Env. / Ins. LED Lamps 9290002761 EUT

M/N Power Rating : 120Vac/60Hz

Test mode CH26 Memo

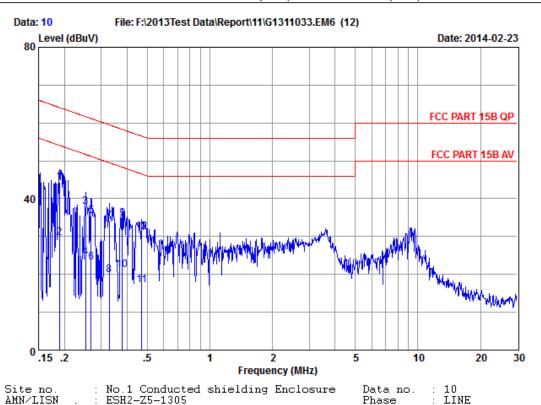
	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1 2 3 4 5 6 7 8 9 10	0.19 0.19 0.20 0.20 0.26 0.33 0.33 0.34	0.18 0.18 0.18 0.18 0.18 0.18 0.19 0.19 0.19	9.87 9.87 9.87 9.86 9.86 9.86 9.86 9.86	38.00 19.90 37.00 22.90 30.41 16.51 12.20 27.50 26.10 11.40 22.10	48.05 29.95 47.05 32.95 40.45 26.55 22.25 37.55 36.15 21.45	64.21 63.65 53.65 61.40 51.40 49.58 59.58 59.11 49.11	16.16 24.26 16.60 20.70 20.95 24.85 27.33 22.03 22.96 27.66 24.48	OP Average OP Average OP Average Average OP OP Average
12	0.46	0.19	9.87	8.40	18.46	46.64	28.18	Average

^{1.}Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



> Data no. Phase

Engineer : KM.Tong



: No.1 Conducted shielding Enclosure : ESH2-Z5-1305 : FCC PART 15B QP : 17.7*C&41%/ESCI Site no. AMN/LISN . Limit Env. / Ins. LED Lamps 9290002761 EUT

M/N Power Rating : Test mode : 120Vac/60Hz

Test mode CH26 Memo

	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	0.24	9.87	34.30	44.41	64.08	19.67	QP
2	0.19	0.24	9.87	19.60	29.71	54.08	24.37	Average
3	0.25	0.26	9.86	27.70	37.82	61.66	23.84	QP
4	0.25	0.26	9.86	14.50	24.62	51.66	27.04	Average
5	0.27	0.26	9.86	25.20	35.32	61.18	25.86	QP
6	0.27	0.26	9.86	13.10	23.22	51.18	27.96	Average
7	0.33	0.27	9.86	24.00	34.13	59.50	25.37	QP
8	0.33	0.27	9.86	9.60	19.73	49.50	29.77	Average
9	0.38	0.28	9.86	24.71	34.85	58.30	23.45	QP
10	0.38	0.28	9.86	11.11	21.25	48.30	27.05	Average
11	0.47	0.30	9.87	7.10	17.27	46.50	29.23	Average
12	0.47	0.30	9 87	21 10	31 27	56 50	25 23	OP

^{1.}Emission Level= AMN Factor + Cable Loss + Reading.

^{2.} If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the radiated emission measurement: At 3m Semi-Anechoic Chamber

Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8449B	2944A10921	2014-01-05	2015-01-04
2.	Preamplifier	Agilent	8447D	2944A10921	2013-08-14	2014-08-13
3.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23
4.	Bi-log Antenna	Schaffner	CBL6112D	22253	2013-05-04	2014-05-03
5.	Horn Antenna	EMCO	3115	00062960	2013-05-07	2014-05-06
6.	Horn Antenna	EMCO	3116	00062641	2013-06-08	2015-06-07
7.	Test Receiver	R&S	ESCI	100361	2014-01-05	2015-01-04
8.	RF Cable #1	Yuhang CSYH	cable-3m	001(0.5m)	2013-08-13	2014-08-12
9.	RF Cable #2	Yuhang CSYH	cable-3m	002(0.5m)	2013-03-24	2014-03-23
10.	RF Cable #3	Yuhang CSYH	cable-3m	003(3.0m)	2013-03-24	2014-03-23

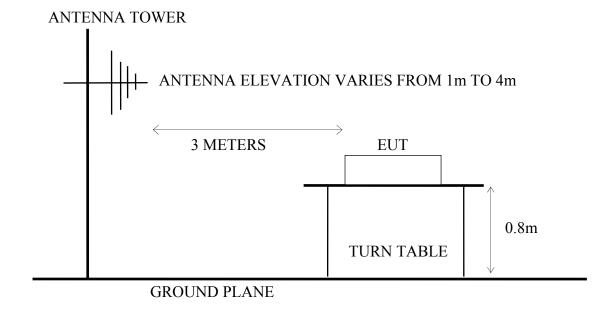
4.2. Block Diagram of Test Setup

4.2.1. Block Diagram of Test Setup between EUT and simulators

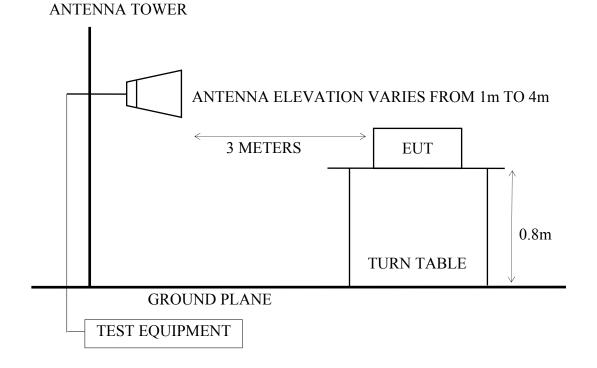
AC POWER SOURCE ← LED Lamps

-: POWER LINE

4.2.2. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance:3m) for 30-1000MHz



4.2.3. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for above 1GHz



4.3. Radiated Emission Limits

Radiated Emission Lin	its (FCC Part15 C. s	section 15 209 (TISPR 22)
Naulated Ellission Elli	ms if CC failis C. s	30011011 1J.ZV7. C	JIOLIX 44 L

Frequency	Distance Meters	Field Strengths Limits			
MHz	Distance Meters	dBμV/m			
30 ~ 230	10	30.0			
230 ~ 1000	10	37.0			
A have 1000	2	74.0 dBμV/m (Peak)			
Above 1000	3	54.0 dBµV/m (Average)			

Remark: (1) Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$)

(2) The tighter limit applies at the edge between two frequency bands.

4.4. Test Procedure

The measuring process is according to ANSI C63.4-2003 and laboratory internal procedure TKC-301-001. (For FCC Part15 Subpart C)

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meters above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1000MHz and 3 meters at above 1GHz. The specified distance is the distance between the antennas and the closest periphery of EUT. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antennas was used for both horizontal and vertical polarization detection for above 1GHz (the absorbing material was added when testing of above 1GHz was done). All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz

RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz

RBW (1 MHz), VBW (10 Hz) for AV detector above 1GHz

The required frequency band (30 MHz \sim 12000 MHz) was pre-scanned with peak detector; all final measurements were measured with quasi-peak detector below 1GHz, measured with average detector and peak detector above 1GHz.

The emission level is calculated automatically by the test system which uses the following equation:

- 1. For 30-1000MHz measurement: Emission Level (dB μ V/m) = Meter-Reading (dB μ V)+Antenna Factor (dB/m)+Cable Loss (dB)
- 2. For Above 1GHz measurement: Emission Level ($dB\mu V/m$) = Meter-Reading ($dB\mu V$)+Antenna Factor (dB/m)+Cable Loss(dB)

 -Pre-amplifier factor (dB)

4.5. Assessment In All Three Orthogonal Planes

After assessment in all three orthogonal planes, when choosing Channel11 test in the radiation, found that XY plan is the worst mode, so in the test of radiation, all with XY plan model test, refer to the following specific data.

Test Mode:XY Plan

	Polarization	Frequency (MHz)	Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	Horizontal	2404.48	90.55	28.21	6.40	35.07	90.09	74.00	-16.09	Peak
Γ	Vertical	2404.54	90.51	28.21	6.40	35.07	90.05	74.00	-16.05	Peak

Test Mode:XZ Plan

Polarization	Frequency (MHz)	Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (µV/m)	Margin (dB)	Remark
Horizontal	2404.54	90.54	28.21	6.40	35.07	90.08	74.00	-16.08	Peak
Vertical	2404.30	89.21	28.21	6.40	35.07	88.75	74.00	-14.75	Peak

Test Mode:YZ Plan

Polarization	Frequency (MHz)	Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (µV/m)	Margin (dB)	Remark
Horizontal	2405.62	87.92	28.21	6.40	35.07	87.46	74.00	-13.46	Peak
Vertical	2404.54	90.33	28.21	6.40	35.07	89.87	74.00	-15.87	Peak

4.6. Measurement Results

PASSED

(All the emissions not reported below are too low against the prescribed limits.)

4.6.1. For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 4.6 & 4.7. (The restricted bands defined in part 15.205(a))

For Frequency range: below 1GHz

No	Test Made a	Reference Test Data No.		
No. Test Mode and Frequency		nd Frequency	Horizontal	Vertical
1.		2405MHz (Channel 11)	# 5	# 6
2.	Transmitting	2450MHz (Channel 20)	# 7	# 8
3.		2480MHz (Channel 26)	# 9	# 10
4.	Receiving		# 11	# 12

For Frequency range: above 1GHz

Ma	Test Mede a	nd Engavonov	Reference Test Data No.		
No.	Test Mode a	nd Frequency	Horizontal	Vertical	
1.		2405MHz (Channel 11)	#13	# 14	
2.	Transmitting	2450MHz (Channel 20)	# 15	# 16	
3.		2480MHz (Channel 26)	# 19	# 20	
4.	Receiving		# 21	# 22	

4.6.2. For Band Edge Emission

The EUT was tested in restricted bands and all the test results are listed in section 4.8. The restricted bands defined in part 15.205(a))

No	T4 M- 1	Reference Test Data No.		
No.	Test Mode a	Horizontal	Vertical	
1.	Transmitting	2405MHz (Channel 11)	# 23, #25	# 24, # 26
2.	Transmitting	2480MHz (Channel 26)	# 27, # 29	# 28, # 30

4.7. Restricted Bands Measurement Results (For Below 1GHz)



Audix Technology(Wujiang)Co.,Ltd.

No.1289, Jiang Xing East Road, The Eastern Part of Wu Jiang

Engineer : boqiang_li

Economic Development Zone, JiangSu, China Tel: (0512) 63403993 Fax: (0512)63403993

: 3m Semi-Anechoic Chamber Site NO.

Data NO. : 5 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 6112D(22253)-1305-3M Limit : FCC PART 15 CLASS B

Limit : FCC PART 15 CLASS B Env. / Ins. : 15.6*C&62%/ESCI

EUT : LED Lamps : 9290002761 M/N Power Rating: 120Vac/60Hz Test Mode : TX CH11 2405MHz

Memo

_	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	51.26	8.40	0.45	31.21	27.38	12.68	40.00	27.32	QP
2	112.36	12.70	0.71	28.26	27.01	14.66	43.50	28.84	QP
3	148.34	11.30	0.81	35.87	26.83	21.15	43.50	22.35	QP
4	199.75	10.50	1.00	49.16	26.58	34.08	43.50	9.42	QP
5	218.18	10.70	1.06	48.70	26.52	33.94	46.00	12.06	QP
6	318.38	14.40	1.31	50.78	26.50	39.99	46.00	6.01	QP

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.

2. The emission levels that are 20dB below the official

limit are not reported.



Audix Technology (Wujiang) Co., Ltd.

No.1289, Jiang Xing East Road, The Eastern Part of Wu Jiang

Economic Development Zone, JiangSu, China Tel: (0512) 63403993 Fax: (0512) 63403993

Data NO. : 6 Site NO. : 3m Semi-Anechoic Chamber

Dis. / Ant. : 3m 6112D(22253)-1305-3M Limit : FCC PART 15 CLASS B Env. / Ins. : 15.6*C&62%/ESCI EUT : LED Lamps Ant. pol. : VERTICAL Engineer : boqiang_li

: LED Lamps EUT M/N : 9290002761 Power Rating: 120Vac/60Hz Test Mode : TX CH11 2405MHz

Memo

_	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark	
1 2 3 4 5 6	48.35 113.42 145.43 187.14 226.27 319.06	9.80 12.70 11.40 9.80 11.05 14.40	0.44 0.74 0.81 1.02 1.16 1.32	48.36 47.38 43.44 50.01 54.08 48.40	27.40 27.01 26.84 26.63 26.50 26.50	31.20 33.81 28.81 34.20 39.79 37.62	40.00 43.50 43.50 43.50 46.00 46.00	8.80 9.69 14.69 9.30 6.21 8.38	QP QP QP QP QP QP	

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.

The emission levels that are 20dB below the official limit are not reported.



Audix Technology (Wujiang) Co., Ltd.

No.1289, Jiang Xing East Road, The Eastern Part of Wu Jiang Economic Development Zone, JiangSu, China

Data NO. : 7 Ant. pol. : HORIZONTAL

Engineer : boqiang_li

Tel: (0512) 63403993 Fax: (0512) 63403993

Site NO. : 3m Semi-Anechoic Chamber

Dis. / Ant. : 3m 6112D(22253)-1305-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 15.6*C&62%/ESCI
EUT : LED Lamps
M/N : 9290002761 Power Rating: 120Vac/60Hz Test Mode : TX CH20 2450MHz Memo :

	Freq.	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.80	0.44	29.93	27.40	12.77	40.00	27.23	QP
2	113.42	12.70	0.74	30.32	27.01	16.75	43.50	26.75	QР
3	146.40	11.40	0.82	31.30	26.84	16.68	43.50	26.82	QΡ
4	199.75	10.50	1.00	49.37	26.58	34.29	43.50	9.21	QΡ
5	225.94	11.00	1.16	48.75	26.50	34.41	46.00	11.59	QΡ
6	315.18	14.40	1.27	50.00	26.48	39.19	46.00	6.81	ÖP

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.

2. The emission levels that are 20dB below the official

limit are not reported.



Audix Technology(Wujiang)Co.,Ltd.

No.1289, Jiang King East Road, The Eastern Part of Wu Jiang

Engineer : boqiang_li

Economic Development Zone, JiangSu, China Tel: (0512) 63403993 Fax: (0512) 63403993

Site NO. : 3m Semi-Anechoic Chamber Dis. / Ant. : 3m 6112D(22253)-1305-3M Limit : FCC PART 15 CLASS B Data NO. : 8 Ant. pol. : VERTICAL

Env. / Ins. : 15.6*C&62%/ESCI

EUT : LED Lamps
M/N : 9290002761
Power Rating: 120Vac/60Hz
Test Mode : TX CH20 2450MHz

Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.80	0.44	50.34	27.40	33.18	40.00	6.82	QP
2	113.42	12.70	0.74	47.82	27.01	34.25	43.50	9.25	QP
3	144.46	11.60	0.81	44.76	26.85	30.32	43.50	13.18	QP
4	184.23	9.80	1.05	50.39	26.65	34.59	43.50	8.91	QP
5	225.94	11.00	1.16	53.84	26.50	39.50	46.00	6.50	QP
6	316.15	14.40	1.29	46.25	26.48	35.46	46.00	10.54	QP

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.

2. The emission levels that are 20dB below the official

limit are not reported.



Data NO. : 9 Ant. pol. : HORIZONTAL

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 6112D(22253)-1305-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 15.6*C&62%/ESCI Engineer : boqiang_li

EUT : LED Lamps M/N : 9290002761 Power Rating: 120Vac/60Hz Test Mode : TX CH26 2480MHz

Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.80	0.44	31.54	27.40	14.38	40.00	25.62	QP
2	114.39	12.80	0.75	30.04	27.00	16.59	43.50	26.91	QP
3	144.46	11.60	0.81	31.33	26.85	16.89	43.50	26.61	QP
4	198.78	10.50	0.99	48.73	26.58	33.64	43.50	9.86	QP
5	225.94	11.00	1.16	47.86	26.50	33.52	46.00	12.48	QP
6	315.18	14.40	1.27	50.50	26.48	39.69	46.00	6.31	QP

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor. 2. The emission levels that are 20dB below the official limit are not reported.

Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King East Road, The Eastern Part of Wu Jiang Economic Development Zone, JiangSu, China Fax: (0512) 63403993 Tel: (0512) 63403993

Data NO. : 10 Ant. pol. : VERTICAL Site NO. : 3m Semi-Anechoic Chamber

Dis. / Ant. : 3m 6112D(22253)-1305-3M Limit : FCC PART 15 CLASS B Env. / Ins. : 15.6*C&62%/ESCI Engineer : boqiang_li : LED Lamps : 9290002761 EUT

M/N Power Rating: 120Vac/60Hz Test Mode : TX CH26 2480MHz

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.80	0.44	50.12	27.40	32.96	40.00	7.04	QP
2	113.42	12.70	0.74	46.81	27.01	33.24	43.50	10.26	QΡ
3	144.46	11.60	0.81	43.17	26.85	28.73	43.50	14.77	QP
4	198.78	10.50	0.99	51.57	26.58	36.48	43.50	7.02	QP
5	226.91	11.05	1.16	53.34	26.50	39.05	46.00	6.95	QP
6	320.03	14.40	1.33	46.18	26.50	35.41	46.00	10.59	QP



Data NO. : 11 Ant. pol. : HORIZONTAL

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 6112D(22253)-1305-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 15.6*C&62%/ESCI Engineer : boqiang_li

: LED Lamps : 9290002761 EUT M/N Power Rating: 120Vac/60Hz Test Mode : RX

Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
3 4 5	52.13 115.23 199.20 235.40 313.20 407.14	8.40 12.80 10.50 11.70 14.37 17.07	0.45 0.76 0.99 1.07 1.25 1.49	33.43 31.03 47.57 43.25 43.14 33.61	27.37 27.00 26.58 26.47 26.47 27.04	14.91 17.59 32.48 29.55 32.29 25.13	40.00 43.50 43.50 46.00 46.00	25.09 25.91 11.02 16.45 13.71 20.87	QP QP QP QP QP QP

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor. The emission levels that are 20dB below the official limit are not reported.



Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King East Road, The Eastern Part of Wu Jiang Economic Development Zone, JiangSu, China Fax: (0512) 63403993 Tel: (0512) 63403993

Data NO. : 12 Ant. pol. : VERTICAL Site NO. : 3m Semi-Anechoic Chamber

Dis. / Ant. : 3m 6112D(22253)-1305-3M Limit : FCC PART 15 CLASS B Env. / Ins. : 15.6*C&62%/ESCI Engineer : boqiang_li

. LED Lamps
M/N : 9290002761
Power Rating: 120Vac/60Hz
Test Mode : RX
Memo : RX : LED Lamps

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	36.80	16.20	0.30	34.62	27.47	23.65	40.00	16.35	QP
2	52.32	8.40	0.45	48.80	27.37	30.28	40.00	9.72	QΡ
3	118.46	12.90	0.87	41.02	26.98	27.81	43.50	15.69	QP
4	143.25	11.80	0.81	41.56	26.86	27.31	43.50	16.19	QP
5	200.20	10.50	1.00	46.25	26.57	31.18	43.50	12.32	QP
6	323.25	14.47	1.40	44.25	26.53	33.59	46.00	12.41	QP

4.8. Restricted Bands Measurement Results (ForAbove1GHz)



Audix Technology(Wujiang)Co.,Ltd. No.1289, Jiang King East Road, The Eastern Part of Wu Jiang Economic Development Zone, JiangSu, China Tel: (0512) 63403993 Fax: (0512) 63403993

site NO. : 3m Semi-Anechoic Chamber Dis. / Ant. : 3m 3115-62593-120500 Limit : FCC P: Data NO. : 13 Ant. pol. : HORIZONTAL Env. / Ins. : 15.6*C&62%/N9030A Engineer : boqiang_li

EUT LED Lamps M/N : 9290002761 Power Rating: 120Vac/60Hz Test Mode : TX CH11 2405MHz

Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
5 6 7	4808.00 7258.00 9876.00 11878.00 11879.24 12325.61 12326.00 12858.00	32.86 36.10 37.92 39.21 39.21 39.21 39.21 39.95	9.10 11.45 14.03 14.73 14.73 14.85 14.85 15.53	38.02 36.36 35.99 34.91 25.01 24.62 34.63 33.30	34.52 34.63 34.35 34.14 34.14 33.56 33.56 32.64	45.46 49.28 53.59 54.71 44.81 45.12 55.13 56.14	74.00 74.00 74.00 74.00 54.00 54.00 74.00 74.00	28.54 24.72 20.41 19.29 9.19 8.88 18.87 17.86	Peak Peak Peak Peak Average Average Peak
_	12858.70	39.95	15.53	23.66	32.64	46.50	54.00	7.50	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.

2. The emission levels that are 20dB below the official limit are not reported.

Audix Technology (Wujiang) Co., Ltd.

No.1289, Jiang Xing East Road, The Eastern Part of Wu Jiang Economic Development Zone, JiangSu, China

Data NO. : 14 Ant. pol. : VERTICAL

Engineer : boqiang_li

Tel: (0512) 63403993 Fax: (0512) 63403993

Site NO. : 3m Semi-Anechoic Chamber Dis. / Ant. : 3m 3115-62593-130528 Limit : FCC PART 15 C PK Env. / Ins. : 15.6*C&62%/N9030A

LED Lamps EUT M/N : 9290002761 Power Rating: 120Vac/60Hz Test Mode : TX CH11 2405MHz Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	4808.00	32.86	9.10	38.69	34.52	46.13	74.00	27.87	Peak
2	7216.00	36.00	11.36	36.66	34.63	49.39	74.00	24.61	Peak
3	9792.00	37.87	13.90	36.45	34.37	53.85	74.00	20.15	Peak
4	10408.00	38.15	13.66	36.38	34.30	53.89	74.00	20.11	Peak
5	11990.00	39.35	14.86	35.27	34.13	55.35	74.00	18.65	Peak
6	11992.13	39.35	14.86	24.17	34.13	44.25	54.00	9.75	Average
7	12900.00	40.03	15.44	33.44	32.56	56.35	74.00	17.65	Peak
8	12904 10	40 03	15 44	22 62	32 56	45 53	54 00	8 47	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.

2. The emission levels that are 20dB below the official

limit are not reported.

Engineer : boqiang_li



Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King East Road, The Eastern Part of Wu Jiang Economic Development Zone, JiangSu, China Tel: (0512) 63403993 Fax: (0512) 63403993

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A Data NO. : 15 Ant. pol. : HORIZONTAL

: LED Lamps : 9290002761 EUT Power Rating: 120Vac/60Hz Test Mode : TX CH20 2450MHz

Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3	4906.00 7342.00 9834.00	33.03 36.28 37.90	9.19 11.33 13.99	37.48 36.06 36.10	34.49 34.63 34.37	45.21 49.04 53.62	74.00 74.00 74.00	28.79 24.96 20.38	Peak Peak Peak
4 5	12004.00 12005.13	39.40 39.40	14.83 14.83	34.65 24.82	34.09 34.09	54.79 44.96	74.00 54.00	19.21 9.04	Peak Average
7 8	12508.00 12509.04 12900.00 12900.45	39.10 39.10 40.03 40.03	14.93 14.93 15.44 15.44	34.94 23.94 33.33 22.38	33.26 33.26 32.56 32.56	55.71 44.71 56.24 45.29	74.00 54.00 74.00 54.00	18.29 9.29 17.76 8.71	Peak Average Peak Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor. 2. The emission levels that are 20dB below the official

limit are not reported.



Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King East Road, The Eastern Part of Wu Jiang

Economic Development Zone, JiangSu, China

Fax: (0512) 63403993 Tel: (0512)63403993

Data NO. : 16 Ant. pol. : VERTICAL Site NO. : 3m Semi-Anechoic Chamber Engineer : boqiang_li

SITE NO. : 3m Semi-Anechoic Chambe
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A
EUT : LED Lamps
M/N : 9290002761
Power Rating: 120Vac/60Hz
Test Mode : TX CH20 2450MHz Test Mode : TX CH20 2450MHz

Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	4906.00	33.03	9.19	37.11	34.49	44.84	74.00	29.16	Peak
2	7342.00	36.28	11.33	35.89	34.63	48.87	74.00	25.13	Peak
3	9862.00	37.92	14.03	35.95	34.35	53.55	74.00	20.45	Peak
4	9863.12	37.92	14.03	25.60	34.35	43.20	54.00	10.80	Average
5	11962.00	39.35	14.76	35.72	34.13	55.70	74.00	18.30	Peak
6	11963.32	39.35	14.76	24.03	34.13	44.01	54.00	9.99	Average
7	12550.00	39.18	15.21	34.26	33.17	55.48	74.00	18.52	Peak
8	12551.23	39.18	15.21	24.90	33.17	46.12	54.00	7.88	Average
9	12816.00	39.78	15.37	33.91	32.73	56.33	74.00	17.67	Peak
10	12816.04	39.78	15.37	22.06	32.73	44.48	54.00	9.52	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official



Data NO. : 19 Ant. pol. : HORIZONTAL

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A Engineer : boqiang_li

: LED Lamps : 9290002761 EUT M/N Power Rating: 120Vac/60Hz Test Mode : TX CH26 2480MHz

Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
5 : 6 : 7 :	4962.00 7440.00 9722.00 11136.00 11932.01 11934.00 12731.30	33.13 36.46 37.83 38.48 39.31 39.31 39.61	9.21 11.38 13.87 14.38 14.75 14.75 15.34 15.34	37.85 34.98 35.57 34.97 25.50 34.58 23.74 34.24	34.48 34.63 34.39 34.24 34.14 34.14 32.86 32.86	45.71 48.19 52.88 53.59 45.42 54.50 45.83 56.33	74.00 74.00 74.00 74.00 54.00 74.00 54.00 74.00	28.29 25.81 21.12 20.41 8.58 19.50 8.17 17.67	Peak Peak Peak Peak Average Peak Average Peak

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor. 2. The emission levels that are 20dB below the official

limit are not reported.



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Data NO. : 20 Ant. pol. : VERTICAL Site NO. : 3m Semi-Anechoic Chamber Engineer : boqiang_li

Site NO. : 3m Semi-Anechoic Chambe
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A
EUT : LED Lamps
M/N : 9290002761
Power Rating: 120Vac/60Hz
Test Mode : TY CH26 2480MHz Test Mode : TX CH26 2480MHz
Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
5 6 7	11808.00 11809.12 12423.73 12424.00	33.13 36.46 37.88 39.12 39.12 39.14	9.21 11.38 13.99 14.65 14.65 14.72	38.12 35.79 36.07 34.59 24.67 23.62 34.55	34.48 34.63 34.37 34.15 34.15 33.39 33.39	45.98 49.00 53.57 54.21 44.29 44.09 55.02	74.00 74.00 74.00 74.00 54.00 54.00 74.00	28.02 25.00 20.43 19.79 9.71 9.91 18.98	Peak Peak Peak Peak Average Average Peak
	12857.90 12858.00	39.95 39.95	15.53 15.53	23.35 33.14	32.64 32.64	46.19 55.98	54.00 74.00	7.81 18.02	Average Peak

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.

2. The emission levels that are 20dB below the official $\,$

limit are not reported.



Data NO. : 21 Ant. pol. : HORIZONTAL

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A Engineer : boqiang_li

: LED Lamps : 9290002761 EUT M/N Power Rating: 120Vac/60Hz

Test Mode : RX Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	2400.00	28.20	6.40	43.40	35.07	42.93	74.00	31.07	Peak
2	4808.00	32.86	9.10	39.64	34.52	47.08	74.00	26.92	Peak
3	9806.00	37.88	13.90	36.06	34.37	53.47	74.00	20.53	Peak
_	11374.00	38.62	14.27	35.12	34.21	53.80	74.00	20.20	Peak
	12590.66	39.27	15.05	21.95	33.08	43.19	54.00	10.81	Average
7	12592.00	39.27	15.05	35.24	33.08	56.48	74.00	17.52	Peak
	12809.98	39.78	15.37	22.09	32.73	44.51	54.00	9.49	Average
	12816.00	39.78	15.37	35.08	32.73	57.50	74.00	16.50	Peak

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official

limit are not reported.



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Data NO. : 22 Ant. pol. : VERTICAL Site NO. : 3m Semi-Anechoic Chamber

Dis. / Ant.: 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins.: 15.6*C&62%/N9030A
EUT : LED Lamps
M/N : 9290002761 Engineer : boqiang_li

Power Rating: 120Vac/60Hz

Test Mode : RX Memo : Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	8000.00	37.10	11.87	37.47	34.65	51.79	74.00	22.21	Peak
2	9624.00	37.77	13.53	36.98	34.42	53.86	74.00	20.14	Peak
3	9890.00	37.93	13.75	36.92	34.35	54.25	74.00	19.75	Peak
4	9894.62	37.93	13.75	24.37	34.35	41.70	54.00	12.30	Average
5	12032.00	39.38	14.79	34.95	34.04	55.08	74.00	18.92	Peak
6	12035.64	39.38	14.79	23.08	34.04	43.21	54.00	10.79	Average
7	12326.00	39.21	14.85	35.15	33.56	55.65	74.00	18.35	Peak
8	12330.92	39.21	14.85	22.66	33.56	43.16	54.00	10.84	Average
9	12760.00	39.69	15.34	34.31	32.82	56.52	74.00	17.48	Peak
10	12760.18	39.69	15.34	22.35	32.82	44.56	54.00	9.44	Average

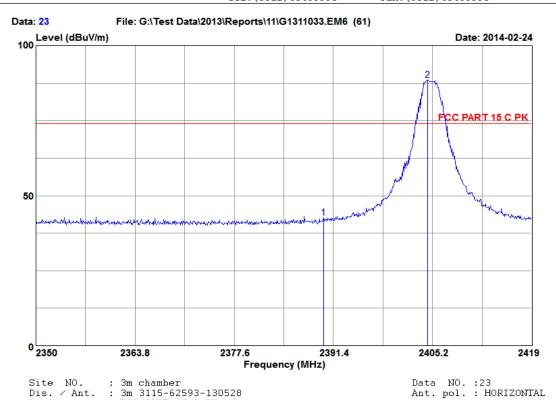
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official

Engineer : boqiang_li

4.9. Spurious Emission Measurement Results in Band Edge Emission (FCC Part 15, 15.205)



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Site NO. : 3m chamber

Dis. / Ant. : 3m 3115-62593-130528

Limit : FCC PART 15 C PK

Env. / Ins. : 15.6*C&62%/N9030A

EUT : LED Lamps

M/N : 9290002761

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	28.17	6.40	43.07	42.57	74.00	31.43	Peak
2 2404.48	28.21	6.40	88.94	88.48	74.00	-14.48	Peak

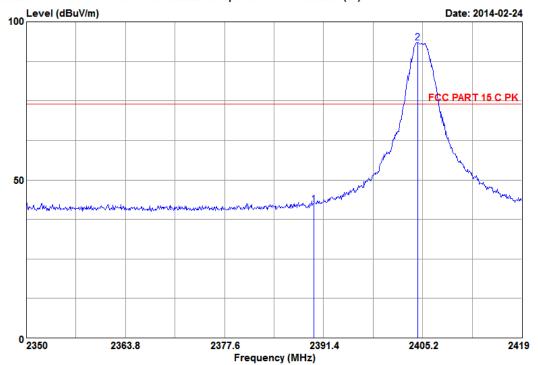
Data NO. :24 Ant. pol. : VERTICAL

Engineer : boqiang_li



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Site NO. : 3m chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A
EUT : LED Lamps

EUT : LED Lamps
M/N : 9290002761
Power Rating : 120Vac/60Hz
Test Mode : TX CH11 2405MHz

Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2390.00	28.17	6.40	42.81	42.31	74.00	31.69	Peak
	2404.56	28.21	6.40	93.92	93.46	74.00	-19.46	Peak

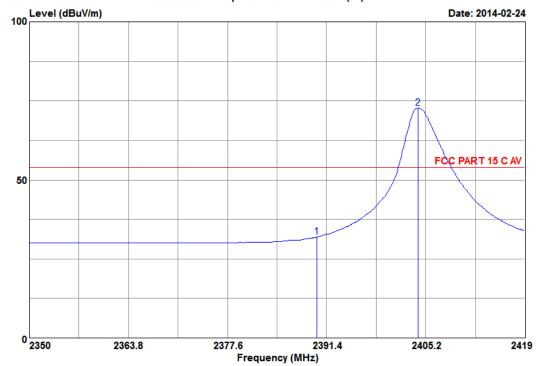
Data NO. :25 Ant. pol. : HORIZONTAL

Engineer : boqiang_li



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Tel:(0512)63403993 Fax:(0512)63403993





Site NO. : 3m chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C AV
Env. / Ins. : 15.6*C&62%/N9030A

EUT : LED Lamps
M/N : 9290002761
Power Rating : 120Vac/60Hz

Test Mode : TX CH11 2405MHz

Memo :

Freq. (MHz)

Ant.	Cable		Emission			
Factor	Loss	Reading	Level	Limits	Margin	Remark
(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	

1 2390.00 28.17 6.40 32.40 31.90 54.00 22.10 Average 2 2404.16 28.20 6.40 73.18 72.71 54.00 -18.71 Average

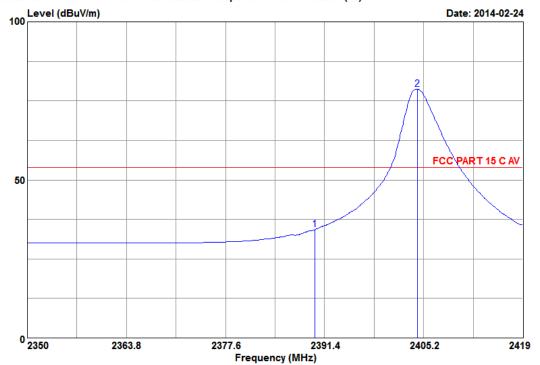
Data NO. :26 Ant. pol. : VERTICAL

Engineer : boqiang_li



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Site NO. : 3m chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C AV
Env. / Ins. : 15.6*C&62%/N9030A
EUT : LED Lamps

EUT : LED Lamps
M/N : 9290002761
Power Rating : 120Vac/60Hz
Test Mode : TX CH11 2405MHz

Memo :

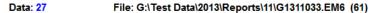
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.17	6.40	34.77	34.27	54.00	19.73	Average
	2404.32	28.21	6.40	79.10	78.64	54.00	-24.64	Average

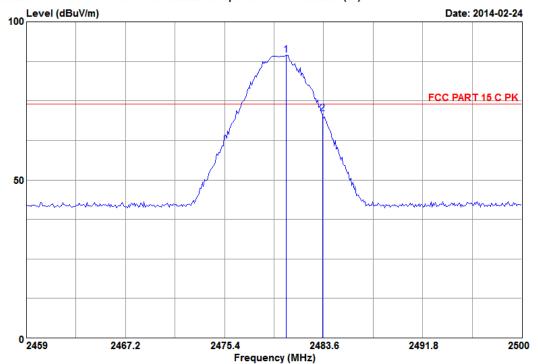
Data NO. :27 Ant. pol. : HORIZONTAL

Engineer : boqiang_li



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Site NO. : 3m chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A

: LED Lamps : 9290002761 EUT M/N

Power Rating : 120Vac/60Hz Test Mode : TX CH26 2480MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2480.48	28.36	6.44	89.87	89.61	74.00	-15.61	Peak
2 2483.50	28.37	6.44	71.17	70.92	74.00	3.08	Peak

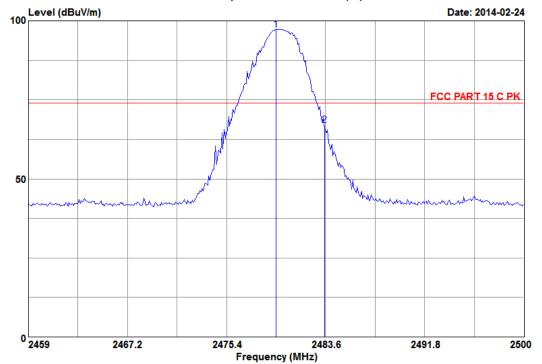
Data NO. :28 Ant. pol. : VERTICAL

Engineer : boqiang_li



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Site NO. : 3m chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 15.6*C&62%/N9030A
EUT : LED Lamps

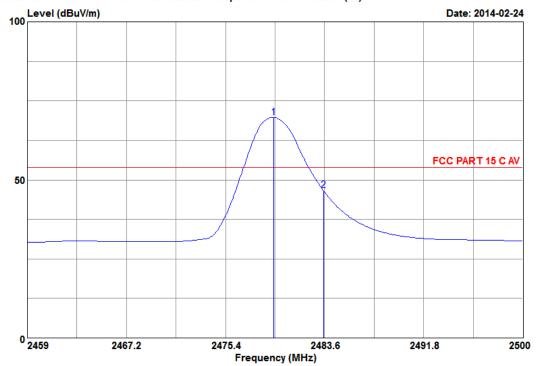
EUT : LED Lamps
M/N : 9290002761
Power Rating : 120Vac/60Hz
Test Mode : TX CH26 2480MHz

Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
_	2479.48	28.36	6.44	97.59	97.33	74.00	-23.33	Peak
	2483.50	28.37	6.44	67.29	67.04	74.00	6.96	Peak



File: G:\Test Data\2013\Reports\11\G1311033.EM6 (61)



Site NO. : 3m chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C AV
Env. / Ins. : 15.6*C&62%/N9030A

: LED Lamps : 9290002761 EUT M/N Power Rating: 120Vac/60Hz Test Mode: TX CH26 2480MHz

Memo

Data NO. :29 Ant. pol. : HORIZONTAL

Engineer : boqiang_li

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2479.38	28.36	6.44	69.99	69.73	54.00	-15.73	Average
	2483.50	28.37	6.44	47.00	46.75	54.00	7.25	Average

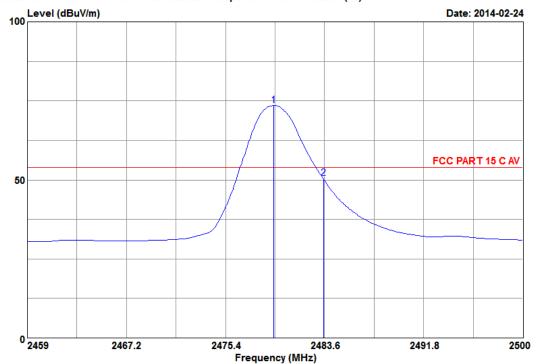
Data NO.:30 Ant.pol.:VERTICAL

Engineer : boqiang_li



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Site NO. : 3m chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C AV
Env. / Ins. : 15.6*C&62%/N9030A
EUT : LED Lamps

EUT : LED Lamps
M/N : 9290002761
Power Rating : 120Vac/60Hz
Test Mode : TX CH26 2480MHz

Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2479.38	28.36	6.44	73.77	73.51	54.00	-19.51	Average
	2483.50	28.37	6.44	50.70	50.45	54.00	3.55	Average

5. 6 dB BANDWIDTH MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23

5.2. Block Diagram of Test Setup



---: SIGNAL LINE

5.3. Specification Limits (§15.247(a)(2))

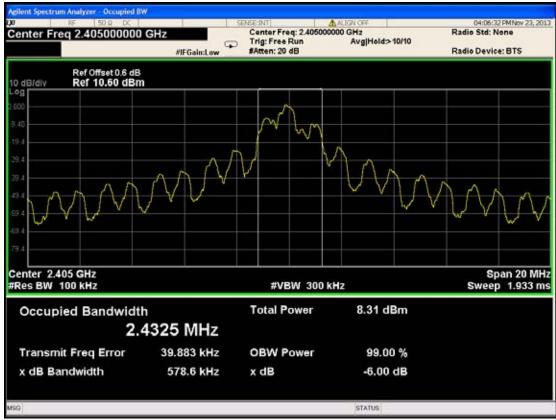
Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

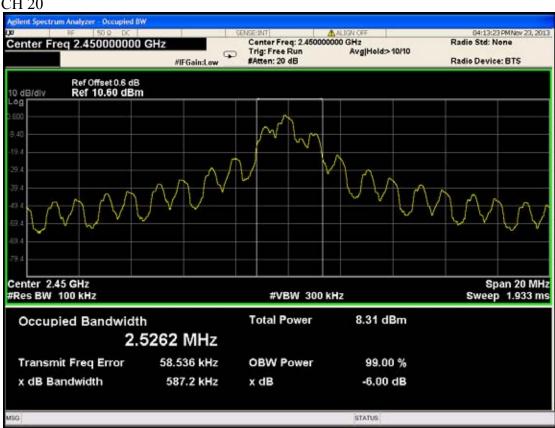
5.4. Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB. The measurement guideline was according to KDB558074 v03r01:2013.

PASSED. All the test results are attached in next pages.

Channal	Test Frequency	6dB Bandwidth
Channel	(MHz)	(kHz)
11	2405	578.6
20	2450	587.2
26	2480	586.6







6. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

6.1. Test Equipment

Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Agilent	N1911A	MY45100361	2014-01-05	2015-01-04
2.	Power Sensor	Agilent	N1921A	MY45240521	2014-01-05	2015-01-04

6.2. Block Diagram of Test Setup



---: SIGNAL LINE

6.3. Specification Limits (§15.247(b)(3))

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

6.4. Test Procedure

This is an RF conducted test. Use a direct connection between the antenna port of the transmitter and the power meter, through suitable attenuation. The transmitter output was connected to the power meter that was designed to detect peak value automatically.

Note: The bandwidth of the power meter is 20MHz.

PASSED. All the test results are attached in next pages.

Channel	Frequency	Power(dBm)	Limit(dBm)
11	2405	7.603	30
20	2450	7.061	30
26	2480	7.193	30

7. BAND EDGES MEASUREMENT

7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23

7.2. Block Diagram of Test Setup

The same as section 5.2.

7.3. Specification Limits (§15.247(d))

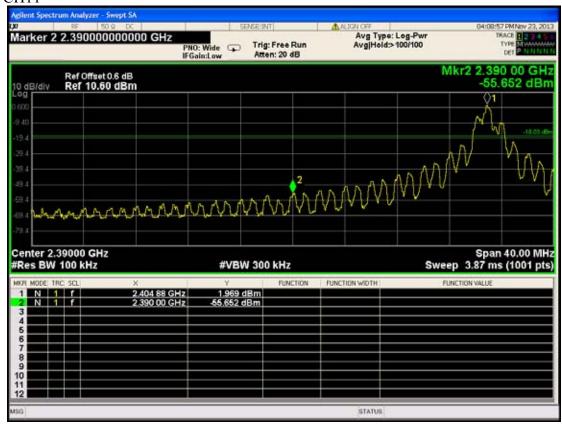
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 Section 15.205(c)).

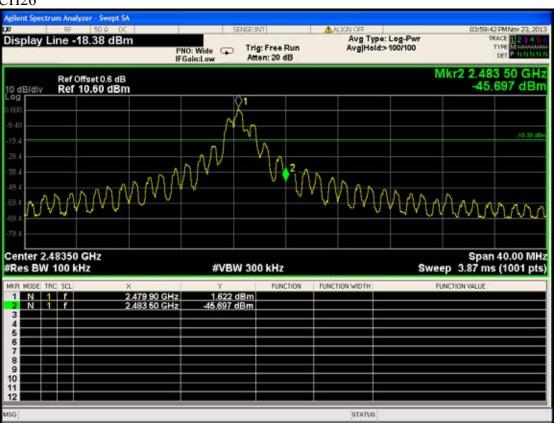
7.4. Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

7.5. Test Results

PASSED. The testing data was attached in the next pages.





8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23

8.2. Block Diagram of Test Setup

The same as section 5.2.

8.3. Specification Limits (§15.247(e))

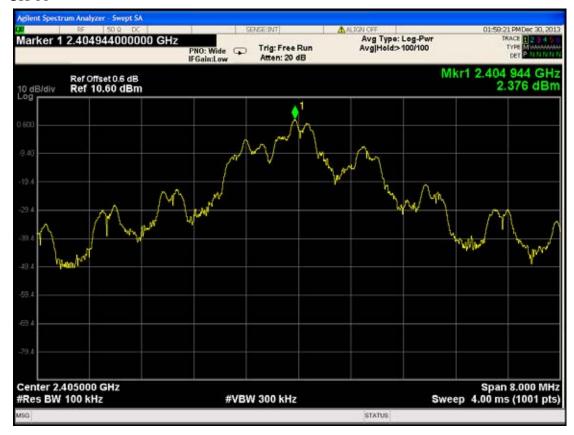
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

8.4. Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. The test receiver / spectrum analyzer was set as RBW \geq 3kHz, VBW \geq 3 x RBW, span = 1.5 times the DTS channel bandwidth. The measurement guideline was according to KDB558074 v03r01:2013.

PASSED. All the test results are attached in next page.

Channel	Frequency(GHz)	Value(dBm)
11	2.404944	2.376
20	2.449936	1.924
26	2.479936	1.888







9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23

9.2. Block Diagram of Test Setup

The same as section 5.2.

9.3. Specification Limits (§15.247(d))

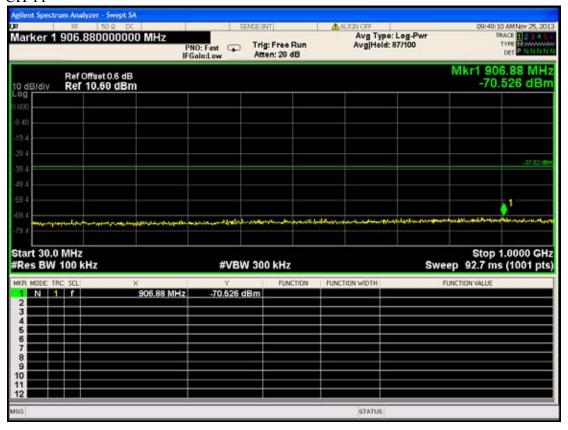
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 Section 15.205(c)).

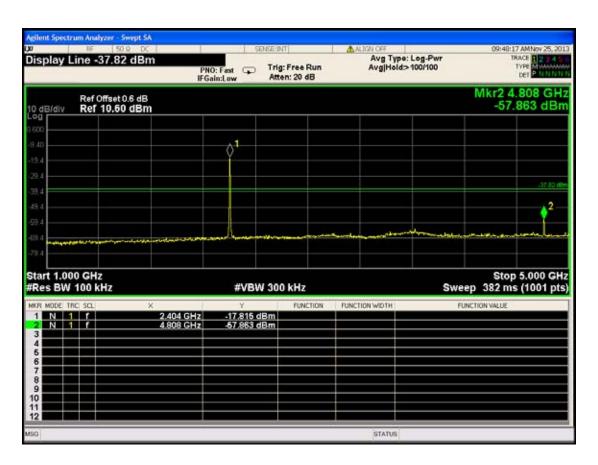
9.4. Test Procedure

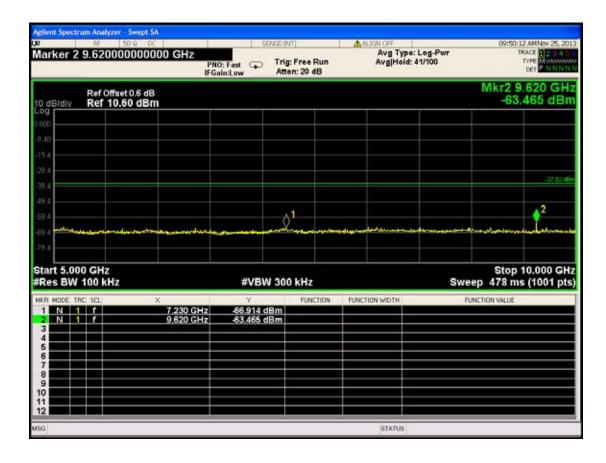
The transmitter output was connected to the spectrum analyzer. Set RBW = 100 kHz, VBW $\geq 300 \text{kHz}$, scan up through 10 th harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The measurement guideline was according to KDB558074 v03r01:2013.

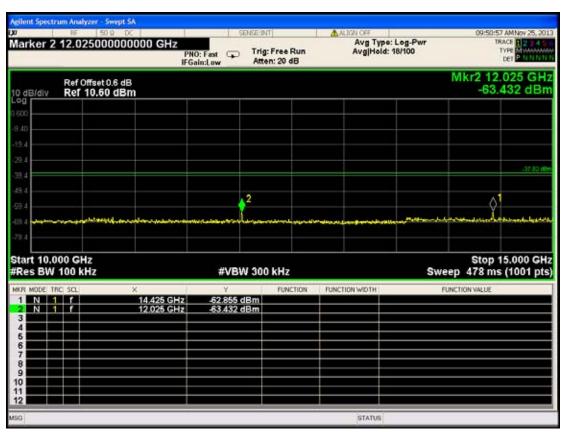
PASSED. All the test results are attached in next pages.

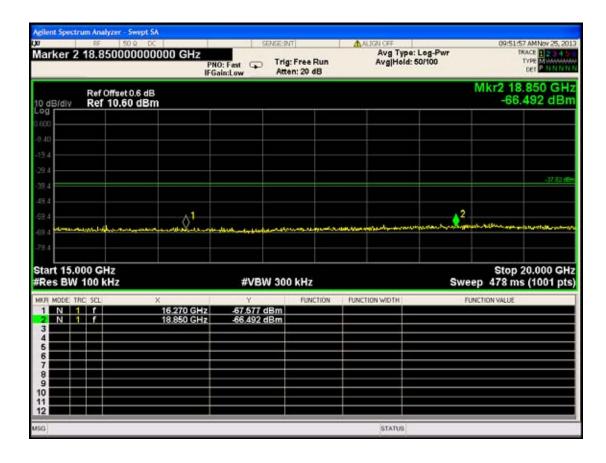
Channel	Frequency(MHz)	Amplitude(dBm)	
	906.88	-70.526	
	2404	-17.815	
	4808	-57.863	
	7230	-66.914	
11	9620	-63.465	
11	14425	-62.855	
	12025	-63.432	
	16270	-67.577	
	18850	-66.492	
	21975	-63.392	
	897.18	-71.708	
	2448	-17.631	
	4900	-60.615	
20	9800	-50.133	
20	7320	-68.361	
	12250	-62.729	
	19040	-63.544	
	22050	-62.997	
	828.31	-70.665	
	2480	-17.299	
	4960	-62.691	
26	9920	-51.803	
	12400	-60.869	
	19160	-63.682	
	23575	-63.098	

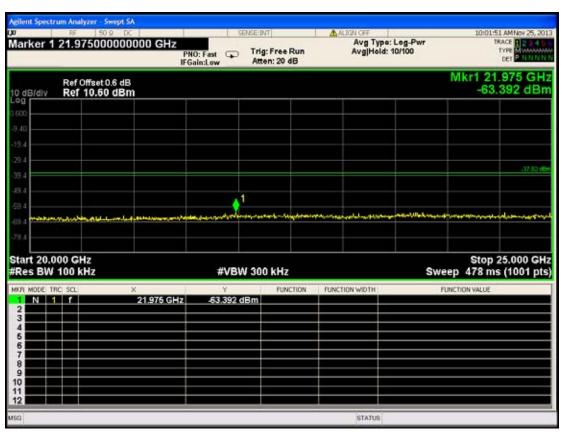


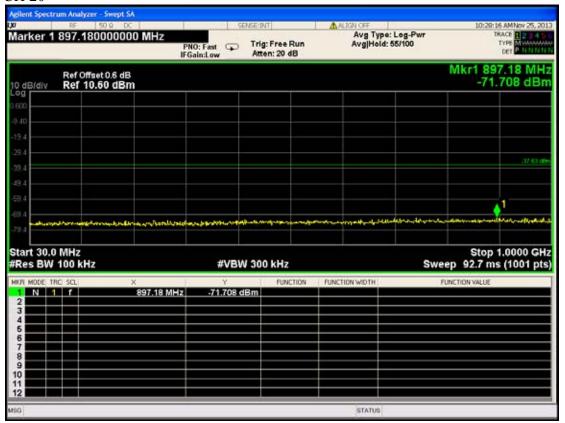


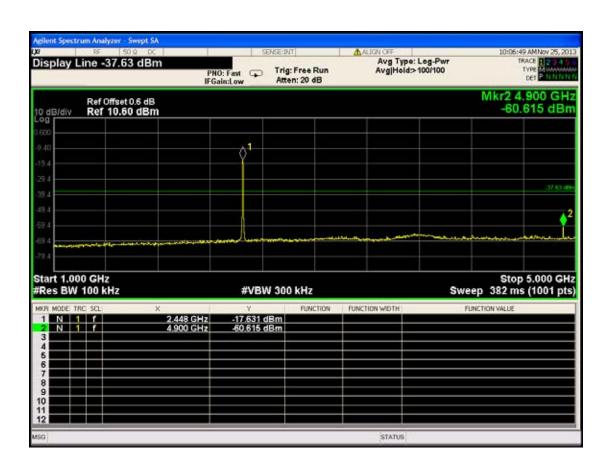


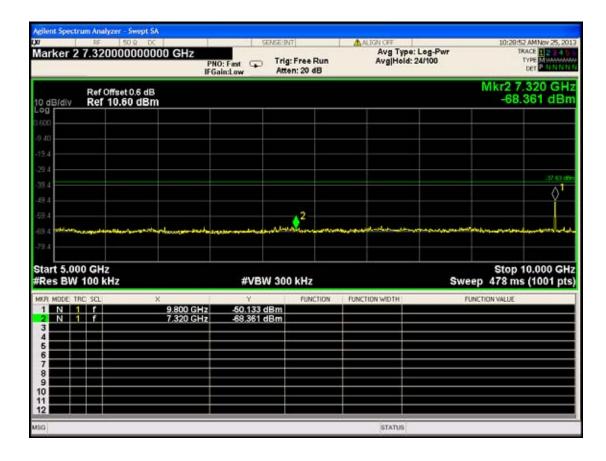


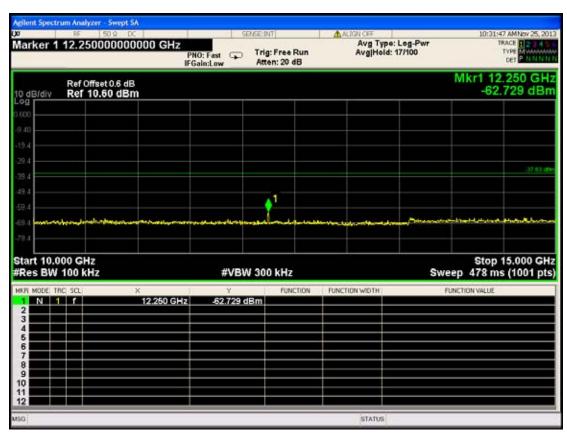


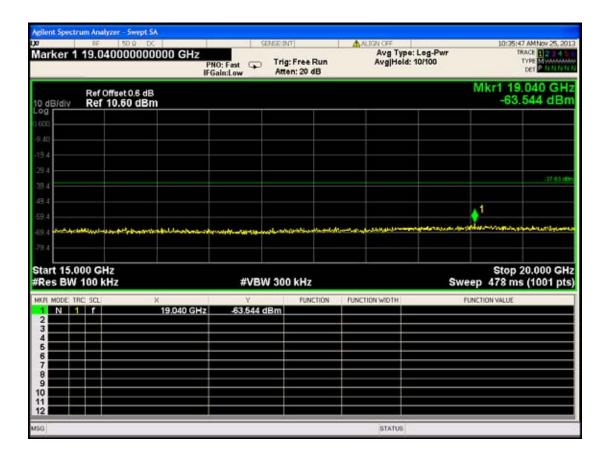


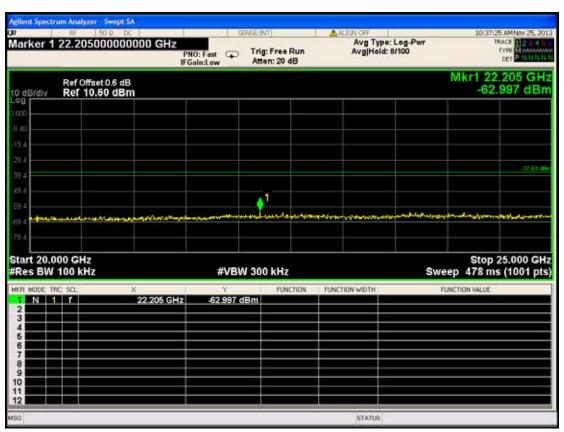


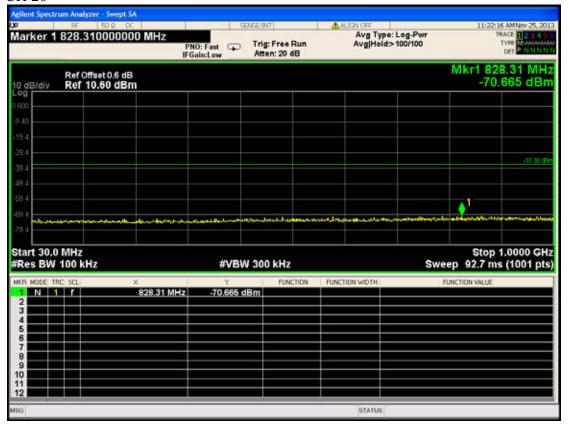


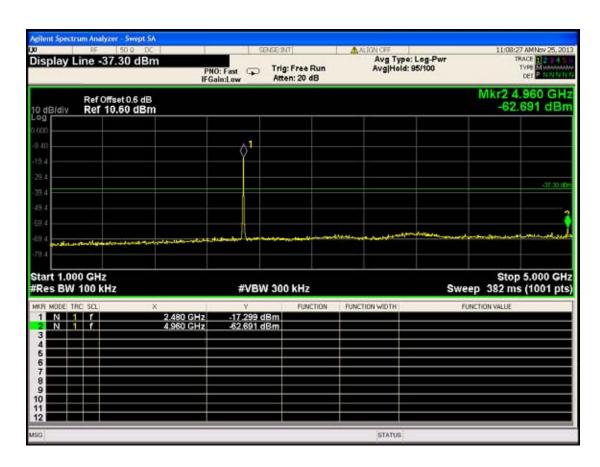


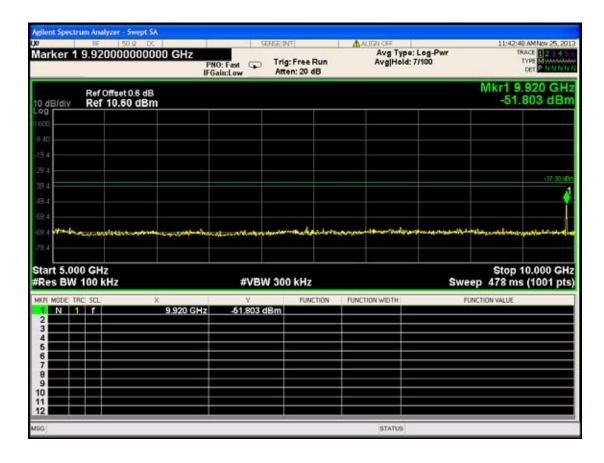


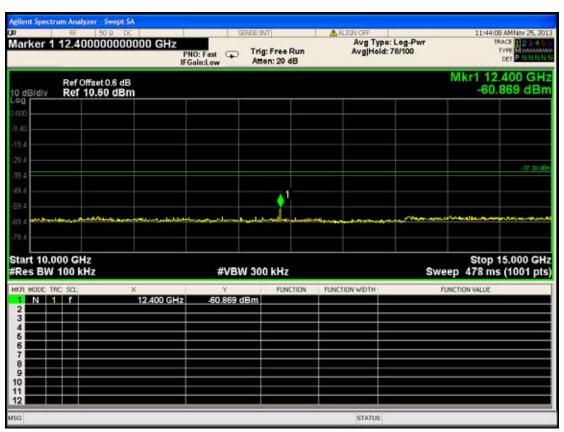


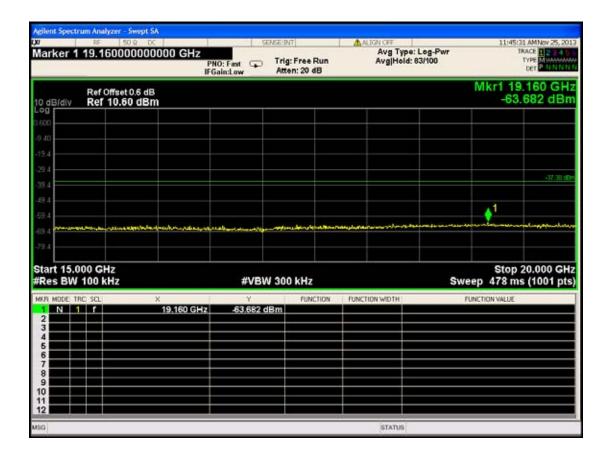


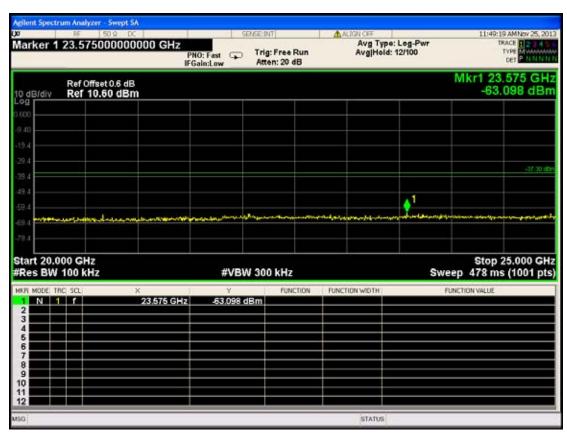












10.DUTY CYCLE

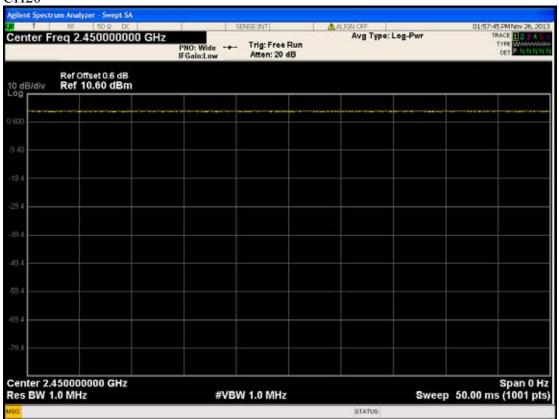
10.1. Test Equipment

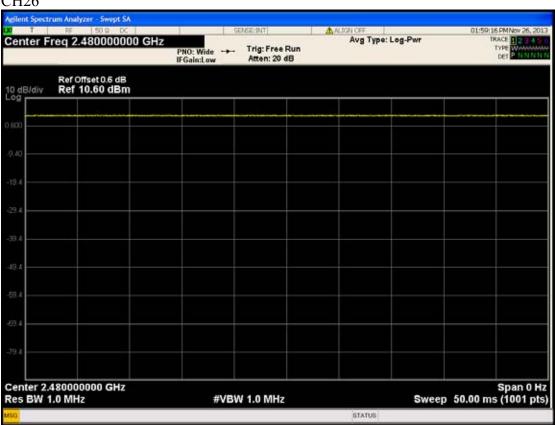
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23

10.2. Test Results

The measurement of duty cycle is 100%.







11.DEVIATION TO TEST SPECIFICATIONS

[NONE]