APPLICATION FOR CERTIFICATION

On Behalf of

Texas Instruments Incorporated
TI-Nspire CX Navigator Access Point

Model No. : TINAVAP3-2

Brand: TEXAS INSTRUMENTS

FCC ID : V7R-TINAVAP3

Prepared for

Texas Instruments Incorporated

12500 TI Boulevard Dallas, TX 75243-4136 USA

Prepared by

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

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

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Report Number : ACWE-F1305007

Date of Test : Apr.14~25, 2013

Date of Report : May 06, 2013

TABLE OF CONTENTS

De	escription	<u>Page</u>
TE	ST REPORT CERTIFICATION	4
1.	SUMMARY OF MEASUREMENTS AND RESULTS	5
2.	GENERAL INFORMATION	6
	2.1. Description of Device (EUT)	
	2.2.UUT's Configuration	
	2.3. Description Test Configuration	
	2.4. Operating Condition of EUT	
	2.5. Tested Supporting System Details	
	2.6. Description of Test Facility	
	2.7. Measurement Uncertainty	
3.	CONDUCTED EMISSION MEASUREMET	
	3.1. Test Equipment	
	3.2. Block Diagram of Test Setup	
	3.3. Power line Conducted Emission Limit	
	3.4. Test Procedure	
	3.5. Conducted Emission Measurement Results	
4.	RADIATED EMISSION MEASUREMENT	
	4.1. Test Equipment	
	4.2. Block Diagram of Test Setup	
	4.3. Radiated Emission Limits 4.4. Test Procedure	
	4.5. Measurement Results	
	4.6. Restricted Bands Measurement Results (For Below 1GHz)	
	4.7. Restricted Bands Measurement Results (For Above 1GHz)	
	4.8. Spurious Emission Measurement Results in Band Edge Emission (FCC Part 15, 15.205)	
5.	26 DB BANDWIDTH MEASUREMENT	
•	5.1. Test Equipment	
	5.2. Block Diagram of Test Setup.	
	5.3. Test Procedure	
	5.4. Test Results	
6.	MAXIMUM PEAK OUTPUT POWER MEASUREMENT	53
	6.1. Test Equipment	
	6.2. Block Diagram of Test Setup.	
	6.3. Specification Limits (§15.407(a)(1))	
	6.4. Test Procedure	53
	6.5. Test Results	53
7.	POWER SPECTRAL DENSITY MEASUREMENT	55
	7.1. Test Equipment	55
	7.2. Block Diagram of Test Setup	55
	7.3. Specification Limits (§15.407(a)-(1) (2))	55
	7.4. Test Procedure	
	7.5. Test Results	
8.	EMISSION LIMITATIONS MEASUREMENT	
	8.1. Test Equipment	59
	8.2. Block Diagram of Test Setup	
	8.3. Specification Limits	
	8.4. Test Procedure	
	8.5. Test Results	59

9.	PEAK POWER EXCURSION MEASUREMENT	67
	9.1. Test Equipment	67
	9.2. Block Diagram of Test Setup	
	9.3. Specification Limits (§15.407(a)(6))	
	9.4. Test Procedure	
	9.5. Test Results	67
10.	OCCUPIED BANDWIDTH 99%POWER MEASUREMENT	71
	10.1. Test Equipment	71
	10.2. Block Diagram of Test Setup	
	10.3. Test Procedure	
	10.4. Test Results	
11.	FREQUENCY STABILITY MEASUREMENT	75
	11.1. Test Equipment	75
	11.2. Block Diagram of Test Setup	75
	11.3. Test Procedure	
	11.4. Specification	
	11.5. Test Results	
12.	DEVIATION TO TEST SPECIFICATIONS	78

TEST REPORT CERTIFICATION

Applicant		Texas Instruments Incorporated
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Manufacturer : Inventec Appliances(Pudong) Corporation

EUT Description : TI-Nspire CX Navigator Access Point

FCC ID : V7R-TINAVAP3

(A) Model No. : TINAVAP3-2

(B) Brand : TEXAS INSTRUMENTS

(C) Power Supply : DC 5V (Supplied by USB port of Laptop)

(D) Test Voltage : DC 5V

Applicable Standards:

FCC RULES AND REGULATIONS PART 15 SUBPART E, Oct. 2012 ANSI C63.10-2009

KDB 789033 D01 General UNII Test Procedures v01r03

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&15.407 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: Apr.14~25, 2013 Date of Report: May 06, 2013

Prepared by : /mma //

(Emma Hu/Assistant Administrator)

Reviewer : 0 0

(Jingo Lin/Section Manager)

Approved & Authorized Signer :

(Allen Wang/ Deputy General Manager)

1. SUMMARY OF MEASUREMENTS AND RESULTS

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Results
CONDUCTED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.207 ANSI C63.10	PASS
RADIATED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.209& Section 15.205 ANSI C63.10	PASS
26 dB BANDWIDTH	FCC 47 CFR Part 15 Subpart E/ Section 15.403(i) ANSI C63.10	PASS
MAXIMUM PEAK OUTPUT POWER	FCC 47 CFR Part 15 Subpart E/ Section 15. 407 (a)(1) ANSI C63.10	PASS
POWER SPECTRAL DENSITY	FCC 47 CFR Part 15 Subpart E/ Section 15. 407 (a)(5) ANSI C63.10	PASS
EMISSION LIMITATIONS	FCC 47 CFR Part 15 Subpart E/ Section 15. 407(d) ANSI C63.10	PASS
PEAK POWER EXCURSION	FCC 47 CFR Part 15 Subpart E/ Section 15. 407 (a)(6) ANSI C63.10	PASS
OCCUPIED BANDWIDTH 99% POWER	KDB 789033 D01 General UNII Test Procedures v01r03	PASS
FREQUENCY STABILITY MEASUREMENT	FCC 47 CFR Part 15 Subpart E Section 15.407(g)	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description : TI-Nspire CX Navigator Access Point

Model No. : TINAVAP3-2

FCC ID : V7R-TINAVAP3

Brand : TEXAS INSTRUMENTS

Applicant : Texas Instruments Incorporated

12500 TI Boulevard Dallas, TX 75243-4136 USA

Manufacturer : Inventec Appliances(Pudong) Corporation

No. 789 Pu Xing Road, Shanghai, PRC

Radio Technology : DSSS &OFDM

Antenna Gain : 3.0dBi

Type of Network : IEEE 802.11a/ n HT20

Fundamental Range : 5150 MHz -5250 MHz

Tested Frequency : 5180MHz (Channel 36)

5220MHz (Channel 44) 5240MHz (Channel 48)

Date of Receipt of Sample : Apr.07, 2013

Date of Test : Apr.14~25, 2013

2.2. UUT's Configuration

Test UUT : UUT×1

I/O Ports : I/O port×1

USB Cable : 60 inch×1

18 inch×1

2.3. Description Test Configuration

Configuration 3: LAP5 (UUT) + Laptop+60 inch USB Cable (5GHz transfer data)+ Hidden(WM-5G with NSC)

Configuration 4: LAP5 (UUT) + Laptop+18 inch USB Cable (5GHz transfer data)+ Hidden(WM-5G with NSC)

2.4. Operating Condition of EUT

- 2.4.1. Set up the EUT as test setup diagram.
- 2.4.2. For all test measurement items, keep the EUT be powered by laptop, Drive the test software "ART2-GUI V2.3", let the EUT operate wireless TX activity under measurement.

2.5. Tested Supporting System Details

2.5.1. TI-nspire CX CAS (NSC)

Manufacturer : TI

Brand : TEXAS INSTRUMENTS

2.5.2. TI-nspire CX Wireless Network Adapter v2

Manufacturer : TI

Brand : TEXAS INSTRUMENTS

Model No. : TINAVWNA2

2.5.3. Laptop Computer

Manufacturer : DELL

Model Number : PP26L

Serial Number : JX193A01

FCC ID : FCC By DoC

Power Cord : Unshielded, Detachable, 1.5 m

AC Adapter : M/N: LA65NS1-00

Brand: DELL

Input: AC 100-240V, 50-60Hz, 1.5A

Output: DC 19.5V,3.34A

DC Cord: Unshielded, Undetachable,

2.0m, 1 ferrite core.

2.6. 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 10m semi-anechoic chamber

Date of Validity: May. 22, 2015 FCC Registration No.: 252588

No.1 3m semi-anechoic chamber Date of Validity: May. 23, 2015 FCC Registration No.: 897661

NVLAP Lab Code : 200786-0

(NVLAP is a NATA accredited body under Mutual

Recognition Agreement) Valid until on Sep.30, 2013

2.7. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty	
Conducted Disturbance Measurement	0.15MHz ~ 30MHz	± 2.36dB	
Radiated Disturbance Measurement	30MHz ~ 1000MHz	± 3.06dB (Horizontal)	
(At 10m Chamber)	30MHZ ~ 1000MHZ	± 3.10dB (Vertical)	
Radiated Disturbance Measurement (At 10m Chamber)	Above 1GHz	± 4.14dB	

Remark: Uncertainty = $ku_c(y)$

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

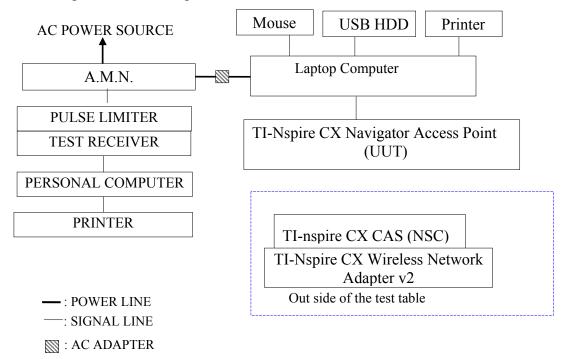
Remark: Uncertainty = $ku_c(y)$

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	2013-01-05	2014-01-04
2.	A.M.N.	R & S	ESH2-Z5	100153	2012-05-18	2013-05-17
3.	L.I.S.N	Kyoritsu	KNW-407	8-1793-3	2012-08-06	2013-08-05
4.	Pulse Limiter	AFJ	IPM-136-10 dB	PA2012200 03	2012-09-05	2013-09-04
5.	50Ω Terminator	Tektronis	MS4630B	001-con	2013-01-05	2014-01-04
6.	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 15C, Section 15.207, Class B)

Frequency	Maximum F	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 C63.10 and laboratory internal procedure TKC-301-015. (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

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 : Apr.24, 2013 Temperature : 20.6℃ Humidity : 42%

Mada	Test Condition	USB Cable	Reference Test Data No.		
Mode	rest Condition	USB Cable	Neutral	Line	
1	Test Configuration 3	60 inch	# 10	# 9	
2	Test Configuration 4	18 inch	※ # 14	# 13	

NOTE 1- 'X' means the worst test mode.

NOTE 2- The worst emission is detected at 0.42 MHz with emission level of 38.05 dB (μ V) and with AV detector (Limit is 47.47 dB (μ V)), when the Neutral of the EUT is connected to AMN.



Audix Technology (Wu Jiang) Co.,Ltd No.1289, Jiang Xing East Road, The Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel: (0512)63403993 Fax: (0512) 63403339

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File: F:\2013Test Data\Report\04\G1304009.EM6 (24) Data: 10 80 Level (dBuV) Date: 2013-04-24 FCC PART 15B QP FCC PART 15B AV

: No.1 Conducted shielding Enclosure : ESH2-Z5-1205 : FCC PART 15B QP : 20.6*C&42%/ESCI : TI-nspire CX navigator access point : TINAVAP3-2 Site no. AMN/LISN . : 10 : NEUTRAL 10 Data no. Phase Limit Env. / Ins. Engineer : KM Tong

Frequency (MHz)

EUT

.5

M/N Power Rating : 120Vac/60Hz Test mode Configuration3

.15 .2

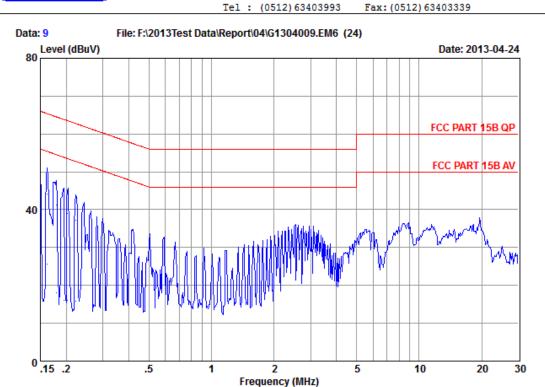
Memo

	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.17	9.86	34.61	44.64	65.73	21.09	QP
2	0.16	0.17	9.86	10.21	20.24	55.73	35.49	Average
3	0.17	0.17	9.86	33.31	43.34	65.21	21.87	QP
4	0.17	0.17	9.86	26.11	36.14	55.21	19.07	Average
5	0.19	0.17	9.87	29.80	39.84	64.26	24.42	QP
6	0.19	0.17	9.87	6.10	16.14	54.26	38.12	Average
7	0.21	0.17	9.87	27.20	37.24	63.13	25.89	QP
8	0.21	0.17	9.87	6.20	16.24	53.13	36.89	Average
9	0.25	0.18	9.86	28.10	38.14	61.69	23.55	QP
10	0.25	0.18	9.86	26.60	36.64	51.69	15.05	Average
11	0.33	0.18	9.86	26.50	36.54	59.38	22.84	QP
12	0.33	0.18	9.86	25.80	35.84	49.38	13.54	Äverage

^{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.



Audix Technology (Wu Jiang) Co.,Ltd No.1289, Jiang Xing East Road, The Eastern Part of WuJiang Economic Development Zone, JiangSu, China



No.1 Conducted shielding Enclosure ESH2-Z5-1205 FCC PART 15B QP 20.6*C&42%/ESCI TI-nspire CX navigator access point TINAVAP3-2 Site no. AMN/LISN : 9 : LINE Data no. Phase Limit Env. / Ins. Engineer : KM Tong

EUT

M/N Power Rating : 120Vac/60Hz Test mode Configuration3 Memo

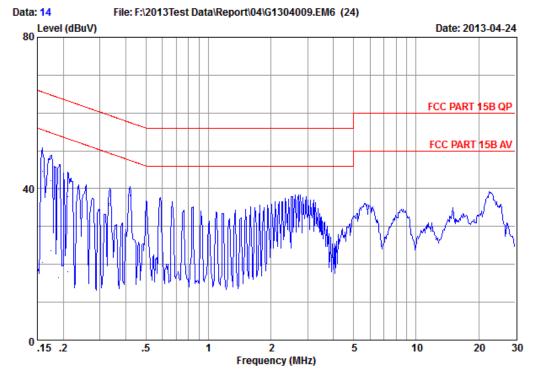
	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1 2 3 4 5 6 7 8 9 10 11	0.15 0.16 0.16 0.18 0.18 0.20 0.20 0.20	0.23 0.23 0.23 0.23 0.24 0.24 0.24 0.24 0.24 0.24	9.86 9.86 9.86 9.87 9.87 9.87 9.87 9.87	35.80 11.00 34.00 15.60 7.89 31.19 29.10 5.90 28.90 6.00 27.00 5.60	45.89 21.09 44.09 25.69 18.00 41.30 39.21 16.01 39.01 16.11 37.12 15.72	66.00 56.00 65.41 55.41 54.53 64.53 63.82 53.82 63.49 53.49 52.74	20.11 34.91 21.32 29.72 36.53 23.23 24.61 37.81 24.48 37.38 25.62	QP Average QP Average Average QP Average QP Average QP Average QP 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.



Audix Technology (Wu Jiang) Co.,Ltd No.1289, Jiang Xing East Road, The Eastern Part of WuJiang Economic Development Zone, JiangSu, China

Tel: (0512)63403993 Fax: (0512) 63403339



: No.1 Conducted shielding Enclosure : ESH2-Z5-1205 : FCC PART 15B QP : 20.6*C&42%/ESCI : TI-nspire CX navigator access point : TINAVAP3-2 Site no. AMN/LISN : 14 : NEUTRAL Data no. Phase Limit Env. / Ins. Engineer : KM Tong

EUT

M/N Power Rating : 120Vac/60Hz Test mode Configuration4 Memo

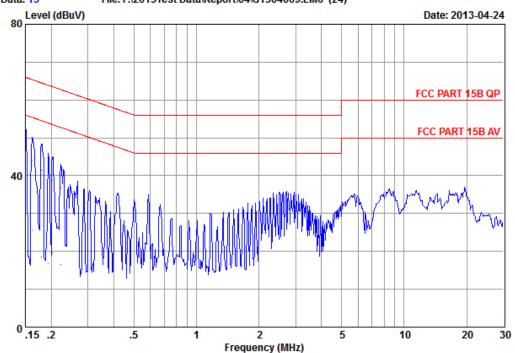
	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1 2 3 4 5 6 7	0.16 0.16 0.18 0.18 0.19 0.19 0.21 0.21	0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17	9.86 9.86 9.87 9.87 9.87 9.87 9.87 9.87	34.51 10.51 13.50 32.00 29.90 6.50 27.80 8.00	44.54 20.54 23.54 42.04 39.94 16.54 37.84 18.04	65.57 55.57 54.72 64.72 64.04 54.04 53.21	21.03 35.03 31.18 22.68 24.10 37.50 25.37 35.17	QP Average Average QP QP Average QP Average QP Average
9 10 11 12	0.33 0.33 0.42 0.42	0.18 0.18 0.19 0.19	9.86 9.86 9.87 9.87	25.60 26.10 28.19 27.99	35.64 36.14 38.25 38.05	49.38 59.38 57.47 47.47	13.74 23.24 19.22 9.42	Average QP QP 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.



Audix Technology (Wu Jiang) Co.,Ltd No.1289, Jiang Xing East Road, The Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel: (0512)63403993 Fax: (0512) 63403339

File: F:\2013Test Data\Report\04\G1304009.EM6 (24) Data: 13



No.1 Conducted shielding Enclosure ESH2-Z5-1205 FCC PART 15B QP 20.6*C&42%/ESCI TI-nspire CX navigator access point TINAVAP3-2 Site no. AMN/LISN : 13 : LINE Data no. Phase Limit Env. / Ins. Engineer : KM Tong

EUT

M/N Power Rating : 120Vac/60Hz Configuration4

Test mode Memo

	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.23	9.86	35.70	45.79	66.00	20.21	QP
2	0.15	0.23	9.86	11.10	21.19	56.00	34.81	Average
3	0.16	0.23	9.86	34.00	44.09	65.41	21.32	QP
4	0.16	0.23	9.86	15.60	25.69	55.41	29.72	Average
5	0.18	0.24	9.87	31.39	41.50	64.53	23.03	QP -
6	0.18	0.24	9.87	8.39	18.50	54.53	36.03	Average
7	0.19	0.24	9.87	29.50	39.61	63.91	24.30	QP
8	0.19	0.24	9.87	6.60	16.71	53.91	37.20	Average
9	0.20	0.24	9.87	28.70	38.81	63.49	24.68	QP
10	0.20	0.24	9.87	9.60	19.71	53.49	33.78	Average
11	0.22	0.25	9.87	26.70	36.82	62.74	25.92	QP
12	0.22	0.25	9.87	6.30	16.42	52.74	36.32	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.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the radiated emission measurement: At 10m Semi-Anechoic Chamber

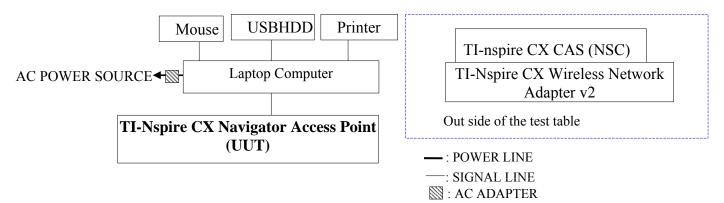
Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY45107028	2013-01-05	2014-01-04
2.	Spectrum Analyzer	Agilent	E7405A	MY45107030	2013-01-05	2014-01-04
3.	Spectrum Analyzer	Agilent	E4447A	MY45300134	2013-01-05	2014-01-04
4.	Pre-Amplifier	Agilent	8447D	2944A10923	2012-08-14	2013-08-13
5.	Pre-Amplifier	Agilent	8447D	2944A10922	2012-08-14	2013-08-13
6.	Bi-log Antenna (Horizontal)	Schaffner	CBL6112D	22253	2012-05-04	2013-05-03
7.	Bi-log Antenna (Vertical)	Schaffner	CBL6112D	22251	2012-04-25	2013-04-24
8.	Horn Antenna	EMCO	3115	00062593	2012-05-04	2013-05-03
9.	Test Receiver	R&S	ESCI	100351	2013-01-05	2014-01-04
10.	50Ω Coaxial Switch # 1	ANRITSU	MP59B	6200547935	2012-03-24	2013-03-23
11.	50Ω Coaxial Switch # 2	ANRITSU	MP59B	6200547937	2012-03-24	2013-03-23
12.	50Ω Coaxial Switch # 3	ANRITSU	MP59B	6200547934	2012-03-24	2013-03-23
13.	Microwave amplifier	Agilent	8449B	3008A02234	2013-01-05	2014-01-04
14.	RF Cable	Yuhang	CSYH	001	2012-08-14	2013-08-13
15.	RF Cable	Yuhang	CSYH	002	2012-08-14	2013-08-13
16.	RF Cable	Yuhang	CSYH	003	2012-08-14	2013-08-13
17.	RF Cable	Yuhang	CSYH	004	2012-08-14	2013-08-13
18.	RF Cable	Yuhang	CSYH	005	2012-08-14	2013-08-13
19.	RF Cable	Yuhang	CSYH	006	2012-08-14	2013-08-13
20.	RF Cable	Yuhang	CSYH	008	2012-08-14	2013-08-13
21.	RF Cable	Yuhang	CSYH	009	2012-08-14	2013-08-13
22.	RF Cable	Huber+Suhner	SUCOFLEX 102	28571	2012-08-14	2013-08-13
23.	RF Cable	Huber+Suhner	SUCOFLEX 102	28579	2012-08-14	2013-08-13

At 3m Semi-Anechoic Chamber

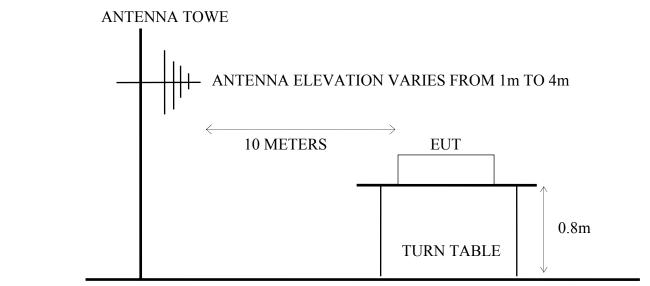
Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8449B	2944A10921	2012-08-14	2013-08-13
2.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04
3.	Bi-log Antenna	Schaffner	CBL6112D	22250	2012-08-23	2013-08-22
4.	Horn Antenna	EMCO	3115	00062960	2012-05-04	2013-05-03
5.	Horn Antenna	EMCO	3116	62641	2011-06-08	2013-06-07
6.	Test Receiver	R&S	ESCI	100361	2013-01-05	2014-01-04
7.	50Ω Coaxial Switch	Anritsu	MP59B	6200547935	2013-03-24	2014-03-23
8.	RF Cable #1	Yuhang CSYH	cable-3m	001(0.5m)	2012-08-13	2013-08-12
9.	RF Cable #2	Yuhang CSYH	cable-3m	002(0.5m)	2012-08-13	2013-08-12

10.	RF Cable #3	Yuhang CSYH	cable-3m	003(3.0m)	2012-08-13	2013-08-12
10.	Ter Cable 113	I dilding CD I II	caore 3111	005(5.0111)	2012 00 13	2013 00 12

- 4.2. Block Diagram of Test Setup
- 4.2.1. Block Diagram of Test Setup between EUT and simulators



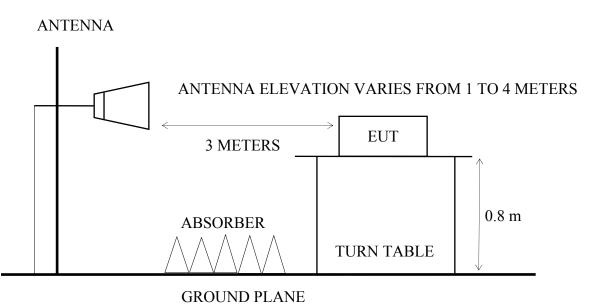
4.2.2. No. 1 10m Semi-Anechoic Chamber Setup Diagram (Test distance: 10m) for 30-1000MHz



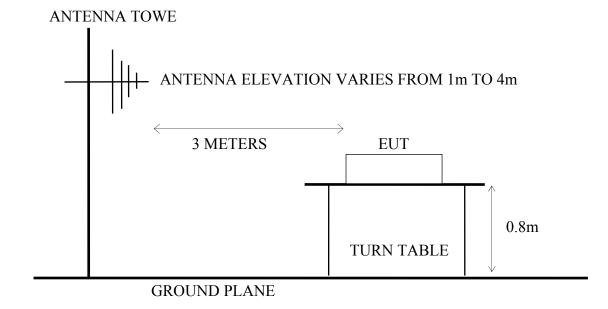
GROUND PLANE

4.2.3. Test Setup at No. 1 10m Semi-Anechoic Chamber Setup Diagram

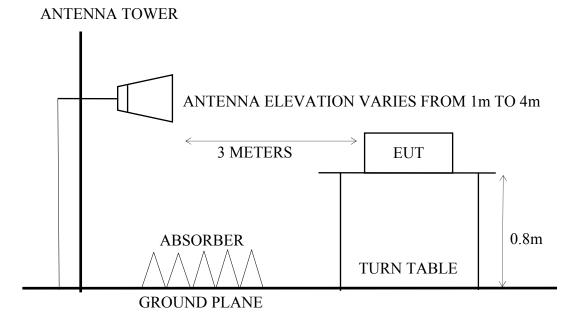
For 1000MHz~8000MHz



4.2.4. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 10m) for 30-1000MHz



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



4.3. Radiated Emission Limits

4.3.1. Radiated Emission Limits (FCC Part15 C, section 15.209,CISPR22)

Frequency	Distance Meters	Field Strengths Limits		
MHz	Distance Meters	dBμV/m		
30 ~ 230	10	30.0		
230 ~ 1000	10	37.0		
Above 1000	2	74.0 dBμV/m (Peak)		
AUUVC 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 C63.10 and laboratory internal procedure TKC-301-024. (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 \sim 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 \sim 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz \sim 1GHz. 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 Peak detector above 1GHz
```

The required frequency band was pre-scanned with peak detector; all final measurements were measured with quasi-peak detector below 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 ($dB\mu V$)

4.5. Measurement Results

PASSED

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

4.5.1. For 30MHz~1GHz

Test Date : Apr.14, 2013 Temperature : 22° C Humidity : 44%The details of test modes and reference test data are as follows :

Item	Test Condition	USB Cable	Reference Test Data No.		
Item	rest Condition	USB Caule	Horizontal	Vertical	
1	Test Configuration 3	60 inch	# 37	# 38	
2	Test Configuration 4	18 inch	# 39	# 40	

4.5.2. For Above 1GHz

The details of test modes and reference test data are as follows:

Test Date: Apr.14, 2013 Temperature: 22.0°C Humidity: 44°%

Item	Test Condition	USB Cable	Reference Test Data No.		
	rest condition	OSD Cuoic	Horizontal	Vertical	
1	Test Configuration 3	60 inch	# 13	# 14	
2	Test Configuration 4	18 inch	# 15	# 16	

4.5.3. For Restricted Bands:

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

For Frequency range: below 1GHz

NI-		Test Made and Frequency			Reference Test Data No.		
No.	Test Mode and Frequency		Horizontal	Vertical			
1			5180MHz (Channel 36)	# 93	# 94		
2		802.11a	5220MHz (Channel 44)	# 95	# 96		
3	Transmitting		5240MHz (Channel 48)	# 97	# 98		
4	Transmitting		5180MHz (Channel 36)	# 99	# 100		
5		802.11n HT20	5220MHz (Channel 44)	# 101	# 102		
6			5240MHz (Channel 48)	# 103	# 104		

For Frequency range: Above 1GHz

No	Total and Forman			Reference Test Data No.		
No.	Test Mode and Frequency		Horizontal	Vertical		
1			5180MHz (Channel 36)	# 105	# 106	
2		802.11a	5220MHz (Channel 44)	# 107	# 108	
3	Transmitting	5240MHz (Channel 48)		# 109	# 110	
4	Transmitting		5180MHz (Channel 36)	# 111	# 112	
5		802.11n HT20	5220MHz (Channel 44)	# 113	# 114	
6		5240MHz (Channel 48)		# 115	# 116	

4.5.4. For Band Edge Emission

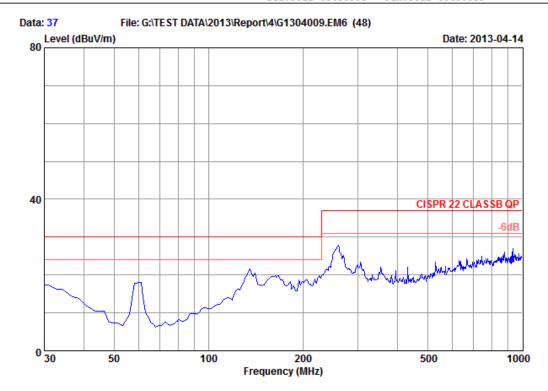
The EUT was tested in restricted bands and all the test results are listed in section 4.7. The restricted bands defined in part 15.205(a))

Ī	No.	Та	ast Mada ar	Reference Test Data No.		
	INO.	Test Mode and Frequency		id Prequency	Horizontal	Vertical
	1.		802.11a	5180MHz (Channel 36)	# 25 # 27	# 26 # 28
	2.	Transmitting	802.11n HT20	5180MHz (Channel 36)	# 29 # 31	# 30 #32

4.5.5. Radiated Emission Measurement Results (For below 1GHz)



Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339



Site No.

: NO.1 10m Semi-Anechoic Chamber Dat : 10m . 6112D(22253)-1206-H Ant : 22.0*C 44%/ESCI Eng : TI-nspire CX navigator access point : TINAVAP3-2 Data NO. : 37 Ant.pol : HORIZONTAL Engineer : Kevin Dis./Ant. Env./Ins.

EUT.

M/N Power Rating: 120Vac/60Hz Configuration3

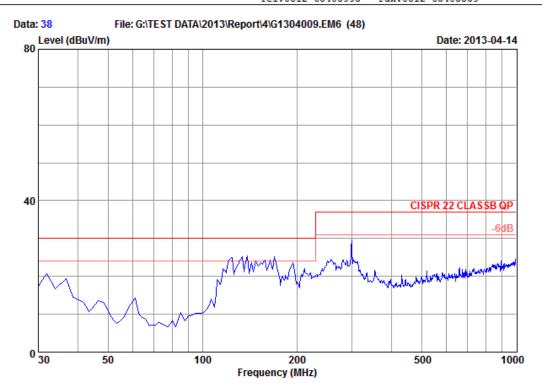
Test Mode

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	61.04	6.12	1.08	10.77	17.97	30.00	12.03	QP
2	135.73	11.88	1.65	8.04	21.57	30.00	8.43	QP
3	167.74	9.84	1.86	8.23	19.93	30.00	10.07	QP
4	259.89	13.50	2.37	12.07	27.94	37.00	9.06	QP
5	664.38	19.55	3.90	0.76	24.21	37.00	12.79	QP
6	877.78	20.87	4.59	0.55	26.01	37.00	10.99	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading 2.The emission level that are 20dB below the offical limit are not reported



Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339



: NO.1 10m Semi-Anechoic Chamber Dat : 10m . 6112D(22252)0416 V Ant : 22.0*C 44%/ESCI Eng : TI-nspire CX navigator access point : TINAVAP3-2 Data NO. : 38 Ant.pol : VERTICAL Engineer : Kevin Site No. Dis./Ant. Env./Ins. EUT.

M/N

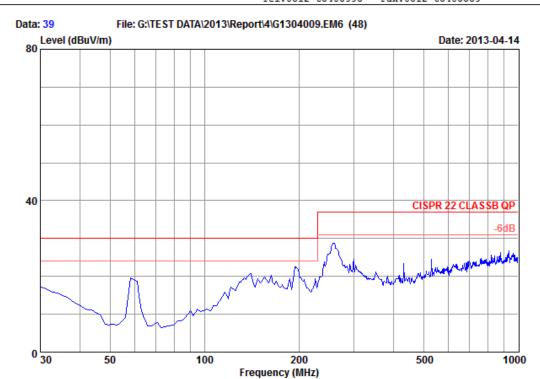
Power Rating: 120Vac/60Hz Test Mode Configuration3 Memo

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	124.09	11.80	1.26	11.85	24.91	30.00	5.09	QP
2	133.79	11.40	1.28	12.54	25.22	30.00	4.78	QP
3	158.04	9.80	1.43	13.01	24.24	30.00	5.76	QP
4	169.68	9.80	1.49	13.84	25.13	30.00	4.87	QP
5	193.93	9.30	1.60	12.81	23.71	30.00	6.29	QP
6	298.69	13.20	2.23	14.23	29.66	37.00	7.34	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading 2.The emission level that are 20dB below the offical limit are not reported



Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339



Site No.

: NO.1 10m Semi-Anechoic Chamber Dat : 10m . 6112D(22253)-1206-H Ant : 22.0*C 44%/ESCI Eng : TI-nspire CX navigator access point : TINAVAP3-2 Data NO. : 39 Ant.pol : HORIZONTAL Engineer : Kevin Dis./Ant. Env./Ins.

EUT.

M/N Power Rating: 120Vac/60Hz Test Mode Configuration4

Memo

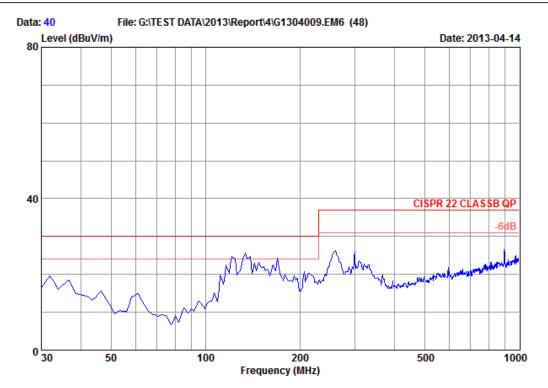
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBu∀)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	58.13	6.38	1.00	12.29	19.67	30.00	10.33	QP
2	140.58	12.30	1.67	6.74	20.71	30.00	9.29	QP
3	162.89	10.03	1.86	8.33	20.22	30.00	9.78	QP
4	193.93	9.40	2.02	11.05	22.47	30.00	7.53	QP
5	259.89	13.50	2.37	12.87	28.74	37.00	8.26	QP
6	877.78	20.87	4.59	0.73	26.19	37.00	10.81	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading 2.The emission level that are 20dB below the offical

limit are not reported



Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang King Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339



: NO.1 10m Semi-Anechoic Chamber Dat : 10m . 6112D(22252)0416 V Ant : 22.0*C 44%/ESCI Eng : TI-nspire CX navigator access point : TINAVAP3-2 Data NO. : 40 Ant.pol : VERTICAL Engineer : Kevin Site No. Dis./Ant. Env./Ins.

EUT.

M/N Power Rating: 120Vac/60Hz Test Mode Configuration4 Memo

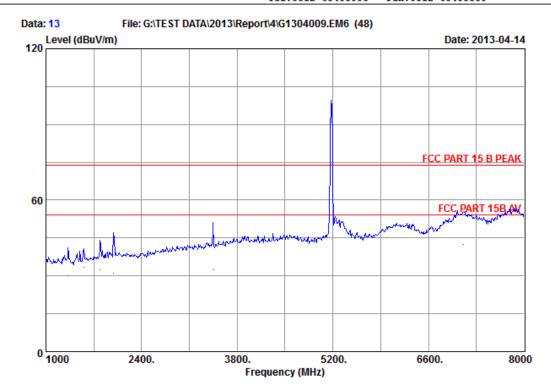
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	121.18	11.80	1.22	11.74	24.76	30.00	5.24	QP
2	133.79	11.40	1.28	12.99	25.67	30.00	4.33	QP
3	138.64	11.10	1.35	12.31	24.76	30.00	5.24	QP
4	169.68	9.80	1.49	13.00	24.29	30.00	5.71	QP
5	259.89	13.90	1.90	10.52	26.32	37.00	10.68	QP
6	298.69	13.20	2.23	10.70	26.13	37.00	10.87	QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading 2.The emission level that are 20dB below the offical limit are not reported

4.5.6. Radiated Emission Measurement Results (For above 1GHz)



Audix Technology(Wujiang)Co.,Ltd. No.1289, Jiang Xing Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339



Site No. Dis./Ant. : 13 : HORIZONTAL Limit Env./Ins. : Kevin

EUT.

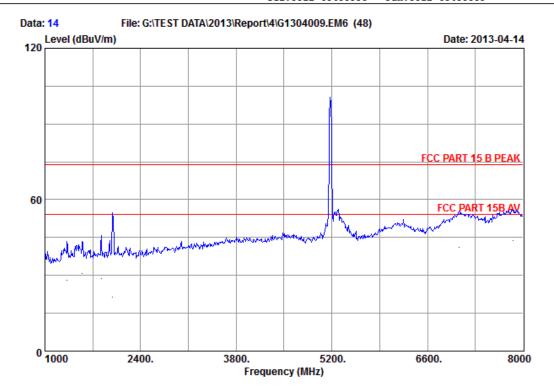
 $M \times N$ Power Rating Test Mode 120Vac/60Hz Configuration3 Memo

_	Freq.	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 7 8 9 10 11 12 13	1322.00 1323.69 1560.00 1561.33 1791.00 1792.68 1987.00 1988.36 3450.00 3451.36 5172.00 7111.00 7112.37	26.13 26.61 26.61 27.68 27.68 28.52 28.52 31.23 31.23 34.70 37.85	7.61 7.61 7.88 7.88 8.63 8.63 9.04 9.04 12.22 12.22 14.67 18.50	43.15 32.00 41.60 34.25 42.91 31.26 44.64 28.36 42.31 23.59 84.47 32.80 19.65	35 .63 35 .63 35 .38 35 .38 35 .14 35 .14 34 .92 34 .92 34 .54 34 .54 34 .54 33 .72	41.26 30.11 40.71 33.36 44.08 32.43 47.28 31.00 51.22 32.50 99.46 54.32	74.00 54.00 74.00 54.00 54.00 54.00 54.00 74.00 54.00 74.00 74.00 74.00	32.74 23.89 33.29 20.64 29.92 21.57 26.72 23.00 22.78 21.50 -25.46 18.57 11.68	Peak Average Peak Average Peak Average Peak Average Peak Average Peak Average
	· · - ·				· · -				: 3 -

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp 2.The emission level that are 20dB below the offical limit are not reported



Audix Technology(Wujiang)Co.,Ltd. No.1289, Jiang Xing Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339



Site No. Dis./Ant. Limit_ : VERTICAL Env./Ins. EUT. Engineer : Kevin

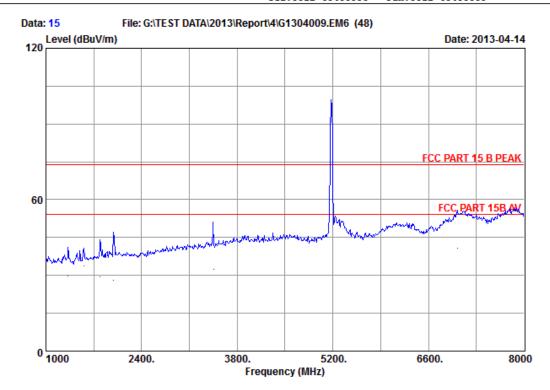
M/N Power Rating Test Mode 120Vac/60Hz Configuration3 Memo

_	Freq.	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 7 8 9 10 11 12	1322.00 1323.69 1546.00 1547.36 1826.00 1827.36 1987.00 1988.20 5172.00 7062.00 7063.22 7846.00 7847.33	26.13 26.53 26.53 27.83 27.83 27.83 28.52 28.52 34.70 37.77 37.77 38.45	7.61 7.61 7.88 7.88 8.64 9.04 9.04 14.67 17.94 17.94 19.87	45.46 29.81 44.59 31.65 44.56 27.27 52.15 18.66 85.71 33.43 19.31 30.77 18.65	35.63 35.63 35.41 35.41 35.11 34.92 34.38 33.75 33.75 33.28	43.57 27.92 43.59 30.65 45.92 28.63 54.79 21.30 100.70 55.39 41.27 55.81 43.71	74.00 54.00 74.00 54.00 54.00 54.00 74.00 74.00 74.00 74.00 54.00	30 43 26 08 30 41 23 35 28 08 25 37 19 21 32 70 -26 70 18 61 12 73 18 19 10 29	Peak Average Peak Average Peak Average Peak Average Peak Peak Average Peak Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp 2.The emission level that are 20dB below the offical limit are not reported



Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing Eest Road,Eastern Part of WuJiang
Economic Development Zone,JiangSu,China
Tel:0512-63403993 Fax:0512-63403339



Site No. : NO.1 10m Semi-Anechoic Chamber Data NO. : 15
Dis./Ant. : 3m . 3115(62593)-1205 Ant.pol : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env./Ins. : 22.0*C 44%/E4447A Engineer : Kevin
EUT. : TI-nspire CX navigator access point
M/N : TINAVAP3-2

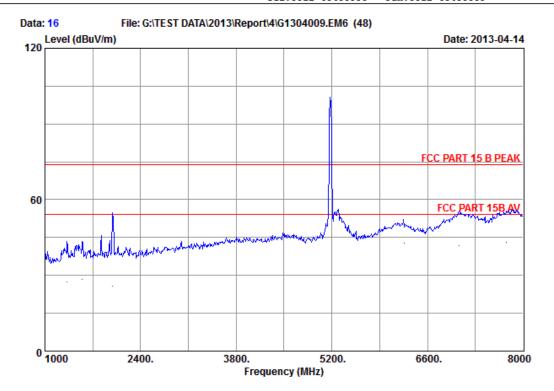
Power Rating : 120Vac/60Hz
Test Mode : Configuration4
Memo :

_	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 7 8 9 10 11 12 13	1322.00 1323.24 1560.00 1561.29 1791.00 1792.32 1987.00 1988.36 3450.00 3453.26 5172.00 7020.00	26.13 26.61 26.61 27.68 27.68 28.52 28.52 31.23 31.23 34.70 37.64	7.61 7.61 7.88 7.88 8.63 9.04 9.04 12.22 12.22 14.67 17.63	43 .15 31 .69 41 .60 34 .65 42 .91 28 .26 44 .64 25 .32 42 .31 23 .66 84 .47 34 .26 19 .33	35 .63 35 .63 35 .38 35 .38 35 .14 35 .14 34 .92 34 .92 34 .54 34 .54 34 .54 33 .78	41.26 29.80 40.71 33.76 44.08 29.43 47.28 27.96 51.22 32.57 99.46 40.82	74.00 54.00 74.00 54.00 54.00 54.00 54.00 74.00 54.00 74.00 74.00 74.00	32.74 24.20 33.29 20.24 29.92 24.57 26.72 26.04 22.78 21.43 -25.46 18.25 13.18	Peak Average Peak Average Peak Average Peak Average Peak Average Peak Average Average
									_

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp 2.The emission level that are 20dB below the offical limit are not reported



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: NO.1 10m Semi-Anechoic Chamber Data NO.
: 3m . 3115(62593)-1205 Ant.pol
: FCC PART 15 B PEAK
: 22.0*C 44%/E4447A Engineer
: TI-nspire CX navigator access point
: TINAVAP3-2
120Vac/60U-Site No. Dis./Ant. Limit : VERTICAL Env./Ins. EUT. Engineer : Kevin

M/N Power Rating Test Mode 120Vac/60Hz Configuration4 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	1322.00	26.13	7.61	45.46	35.63	43.57	74.00	30.43	Peak
2	1324.26	26.13	7.61	29.32	35.63	27.43	54.00	26.57	Average
3	1546.00	26.53	7.88	44.59	35.41	43.59	74.00	30.41	Peak -
4	1547.33	26.53	7.88	29.35	35.41	28.35	54.00	25.65	Average
5	1987.00	28.52	9.04	52.15	34.92	54.79	74.00	19.21	Peak -
6	1988.33	28.52	9.04	23.21	34.92	25.85	54.00	28.15	Average
7	5172.00	34.70	14.67	85.71	34.38	100.70	74.00	-26.70	Peak -
8	6250.00	37.10	16.84	32.52	34.45	52.01	74.00	21.99	Peak
9	6253.32	37.10	16.84	23.21	34.45	42.70	54.00	11.30	Average
10	7062.00	37.77	17.94	33.43	33.75	55.39	74.00	18.61	Peak -
11	7063.36	37.77	17.94	19.66	33.75	41.62	54.00	12.38	Average
12	7755.00	38.55	18.69	31.53	33.33	55.44	74.00	18.56	Peak -
13	7756.32	38.55	18.69	19.33	33.33	43.24	54.00	10.76	Average

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading - Preamp 2. The emission level that are 20dB below the offical limit are not reported

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

4.6.1. Type of Network: IEEE 802.11a



Audix Technology (Wujiang) Co., Ltd.

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

Data NO. : 93 Ant. pol. : HORIZONTAL

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

Site NO. : 3m chamber : 3m 6112D(22250)-12-08 : FCC PART 15 CLASS B : 3m Dis. / Ant. Limit

: 20.6*C&42%/ESCI Engineer : Justin : TI-nspire CX navigator access point

: TINAVĀP3-2 M/N

Power Rating: DC 5V
Test Mode: TX 802.11a CH36 5180MHz

Memo

331.67

EUT

Ant. Cable Emission Freq. Factor Loss Reading Level Limits Margin Remark (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 48.43 9.70 0.64 45.87 28.64 40.00 11.36 OP 1 13.00 12.30 110.51 0.97 48.76 35.31 43.50 8.19 QР 3 141.55 1.00 47.14 33.17 43.50 10.33 QР 249.22 13.00 1.51 46.00 10.39 QР 48.01 35.61 46.00 312.27 14.26 1.66 47.00 36.09 9.91

50.19 Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

39.43

are not reported.

1.66



Audix Technology (Wujiang) Co., Ltd.

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

Data NO. : 94

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

46.00

Site NO. : 3m chamber

14.64

: 3m 6112D(22250)-12-08 : FCC PART 15 CLASS B : 20.6*C&42%/ESCI : TI-nspire CX navigator access point Ant. pol. : VERTICAL $\mathtt{Dis.} \ \angle \ \mathtt{Ant.}$ Limit Env. / Ins. Engineer : Justin

EUT

M/N : TINAVAP3-2

Power Rating : DC 5V

Test Mode : TX 802.11a CH36 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.56	0.64	53.68	36.31	40.00	3.69	QP
2	110.51	13.04	0.97	47.76	34.35	43.50	9.15	QP
3	114.39	13.30	0.98	47.12	34.00	43.50	9.50	QP
4	256.98	13.50	1.52	46.13	34.30	46.00	11.70	QP
5	336.52	14.74	1.71	42.49	31.99	46.00	14.01	QP
6	664.38	19.60	2.63	42.99	36.99	46.00	9.01	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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



Audix Technology (Wujiang) Co., Ltd.

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

Data NO. : 95 Ant. pol. : HORIZONTAL

Engineer : Justin

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

Tel: (0512) 63403993

Site NO. : 3m chamber

Site NO. : 3m chamber

Dis. / Ant. : 3m 6112D(22250)-12-08

Limit : FCC PART 15 CLASS B

Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point

M/N : TINAVAP3-2

Power Rating : DC 5V

Test Mode : TX 802.11a CH44 5220MHz

Test Mode

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3 4 5 6	48.43 110.51 141.55 230.79 250.19 331.67	9.70 13.00 12.30 11.20 13.10 14.64	0.64 0.97 1.00 1.44 1.51 1.66	46.61 49.19 47.57 49.21 47.70 47.29	29.38 35.74 33.60 34.96 35.40 36.53	40.00 43.50 43.50 46.00 46.00	10.62 7.76 9.90 11.04 10.60 9.47	QP QP QP QP QP QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

Data NO. : 96 Ant. pol. : VERTICAL

Engineer : Justin

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

: 3m chamber Site NO.

Dis. / Ant. : 3m 6112D(22250)-12-08 Limit : FCC PART 15 CLASS B Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11a CH44 5220MHz

Test Mode

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.56	0.64	54.06	36.69	40.00	3.31	QP
2	110.51	13.04	0.97	47.18	33.77	43.50	9.73	QP
3	176.47	9.73	1.10	47.36	30.99	43.50	12.51	QP
4	198.78	10.13	1.32	47.64	32.03	43.50	11.47	QP
5	257.95	13.63	1.52	45.34	33.64	46.00	12.36	QP
6	335.55	14.71	1.70	43.79	33.24	46.00	12.76	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

Site NO. : 3m chamber

Data NO. : 97 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 6112D(22250)-12-08 Limit : FCC PART 15 CLASS B Env. / Ins. : 20.6*C&42%/ESCI Env. / Ins. Engineer : Justin

EUT : TI-nspire CX navigator access point M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11a CH48 5240MHz

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
3 4 5	48.43 110.51 141.55 230.79 257.95 335.55	9.70 13.00 12.30 11.20 13.70 14.72	0.64 0.97 1.00 1.44 1.52 1.70	46.02 48.41 46.82 48.86 46.61 45.99	28.79 34.96 32.85 34.61 34.98 35.45	40.00 43.50 43.50 46.00 46.00 46.00	11.21 8.54 10.65 11.39 11.02 10.55	QP QP QP QP QP QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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. : 98 Ant. pol. : VERTICAL

Engineer : Justin

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

Site NO. : 3m chamber Dis. / Ant. : 3m 6112D(22250)-12-08 Limit : FCC PART 15 CLASS B Env. / Ins. : 20.6*C&42%/ESCI

: TI-nspire CX navigator access point : TINAVAP3-2 EUT

M/N

Power Rating: DC 5V Test Mode: TX 802.11a CH48 5240MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 48.43	9.56	0.64	53.68	36.31	40.00	3.69	QP
2 110.51	13.04	0.97	48.57	35.16	43.50	8.34	QP
3 141.55	12.37	1.00	43.45	29.55	43.50	13.95	QP
4 198.78	10.13	1.32	45.36	29.75	43.50	13.75	QP
5 254.07	13.20	1.49	45.22	33.02	46.00	12.98	QP
6 665.35	19.60	2.68	41.73	35.76	46.00	10.24	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

4.6.2. Type of Network: IEEE 802.11n HT20



Audix Technology (Wujiang) Co., Ltd.

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

Data NO. : 99

Ant. pol. : HORIZONTAL Engineer : Justin

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

Site NO. : 3m chamber

Dis. / Ant. : 3m 6112D(22250)-12-08 Limit : FCC PART 15 CLASS B Env. / Ins. : 20.6*C&42%/ESCI

: TI-nspire CX navigator access point : TINAVAP3-2 EUT

M/N

Power Rating : DC 5V
Test Mode : TX 802.11nHT20 CH36 5180MHz

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.70	0.64	53.14	35.91	40.00	4.09	QP
2	110.51	13.00	0.97	48.57	35.12	43.50	8.38	QР
3	141.55	12.30	1.00	45.34	31.37	43.50	12.13	ÕΡ
4	253.10	13.15	1.50	49.36	37.12	46.00	8.88	Q̈Ρ
5	665.35	19.62	2.68	41.71	35.76	46.00	10.24	Q̈Ρ
6	749.74	20.50	2.79	40.73	35.71	46.00	10.29	QΡ

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

Data NO. : 100 Ant. pol. : VERTICAL

Engineer : Justin

Economic Development Zone, JiangSu, China

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

Site NO. : 3m chamber : 3m 6112D(22250)-12-08 : FCC PART 15 CLASS B Dis. / Ant. Limit

Env. / Ins. : 20.6*C&42%/ESCI : TI-nspire CX navigator access point EUT

M/N: TINAVĀP3-2

Power Rating : DC 5V

Test Mode : TX 802.11nHT20 CH36 5180MHz

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3 4 5	48.43 110.51 126.03 198.78 253.10 665.35	9.56 13.04 13.40 10.13 13.18 19.60	0.64 0.97 1.03 1.32 1.50 2.68	53.53 48.62 45.23 49.17 49.33 41.73	36.16 35.21 32.31 33.56 37.12 35.76	40.00 43.50 43.50 43.50 46.00 46.00	3.84 8.29 11.19 9.94 8.88 10.24	QP QP QP QP QP OP

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



Audix Technology (Wujiang) Co., Ltd.

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

Data NO. : 101 Ant. pol. : HORIZONTAL

Engineer : Justin

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

Site NO. : 3m chamber

Site NO. : 3m chamber

Dis. / Ant. : 3m 6112D(22250)-12-08

Limit : FCC PART 15 CLASS B

Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point

M/N : TINAVAP3-2

Power Rating : DC 5V

Test Mode : TX 802.11nHT20 CH44 5220MHz

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3 4 5 6	48.43 110.51 141.55 249.22 260.86 331.67	9.70 13.00 12.30 13.00 13.90 14.64	0.64 0.97 1.00 1.51 1.50	46.75 47.15 47.15 48.69 48.07 48.90	29.52 33.70 33.18 36.29 36.66 38.14	40.00 43.50 43.50 46.00 46.00	10.48 9.80 10.32 9.71 9.34 7.86	QP QP QP QP QP QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
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

Data NO. : 102 Ant. pol. : VERTICAL

Engineer : Justin

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

: 3m chamber Site NO. Dis. / Ant. : 3m 6112D(22250)-12-08 Limit : FCC PART 15 CLASS B Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11nHT20 CH44 5220MHz

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.56	0.64	53.50	36.13	40.00	3.87	QP
2	110.51	13.04	0.97	49.95	36.54	43.50	6.96	QP
3	137.67	12.60	0.98	44.29	30.56	43.50	12.94	QP
4	198.78	10.13	1.32	46.41	30.80	43.50	12.70	QP
5	299.66	13.90	1.65	45.24	33.95	46.00	12.05	QΡ
6	665.35	19.60	2.68	42.83	36.86	46.00	9.14	QΡ

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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



Audix Technology (Wujiang) Co., Ltd.

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

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

Tel: (0512) 63403993

Site NO. : 3m chamber

Data NO. : 103 Ant. pol. : HORIZONTAL Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22250)-12-08
Limit : FCC PART 15 CLASS B
Env. / Ins. : 20.6*C&42%/ESCI
EUT : TI-nspire CX navigator access point
M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11nHT20 CH48 5240MHz Engineer : Justin

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.43	9.70	0.64	45.43	28.20	40.00	11.80	QP
2	110.51	13.00	0.97	48.32	34.87	43.50	8.63	QP
3	141.55	12.30	1.00	47.29	33.32	43.50	10.18	QP
4	184.23	9.50	1.25	47.67	31.18	43.50	12.32	QP
5	249.22	13.00	1.51	48.11	35.71	46.00	10.29	QP
6	331.67	14.64	1.66	48.32	37.56	46.00	8.44	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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. : 104 Ant. pol. : VERTICAL

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

Site NO. : 3m chamber Dis. / Ant. : 3m 6112D(22250)-12-08
Limit : FCC PART 15 CLASS B
Env. / Ins. : 20.6*C&42%/ESCI
EUT : TI-nspire CX navigator access point
M/N : TINAVAP3-2

Engineer : Justin

Power Rating: DC 5V
Test Mode: TX 802.11nHT20 CH48 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3 4 5 6	48.43 110.51 175.50 257.95 335.55 665.35	9.56 13.04 9.80 13.63 14.71 19.60	0.64 0.97 1.14 1.52 1.70 2.68	53.51 46.73 45.16 45.51 43.60 43.87	36.14 33.32 28.90 33.81 33.05 37.90	40.00 43.50 43.50 46.00 46.00	3.86 10.18 14.60 12.19 12.95 8.10	QP QP QP QP QP QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

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

4.7.1. Type of Network: IEEE 802.11a



Audix Technology (Wujiang) Co., Ltd.

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

Data NO. : 105 Ant. pol. : HORIZONTAL

Engineer : Justin

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

Site NO. : 3m chamber

Dis. / Ant. Limit

Env. / Ins.

: 3m Chamber : 3m 3115 (62960)-12-04 : FCC PART 15 C PK : 20.6*C&42%/ESCI : TI-nspire CX navigator access point : TINAVAP3-2 FITT

M/N

Power Rating : DC 5V Test Mode : TX 802.11a CH36 5180MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
110350.10	39.38	14.11	22.79	41.98	54.00	12.02	Average
210360.00	39.39	14.11	36.95	56.15	74.00	17.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. 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

Data NO. : 106

Ant. pol. : VERTICAL

Engineer : Justin

Economic Development Zone, JiangSu, China

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

Site NO. : 3m chamber : 3m 3115 (62960)-12-04 : FCC PART 15 C PK Dis. / Ant. Limit : 20.6*C&42%/ESCI Env. / Ins.

: TI-nspire CX navigator access point EUT

: TINAVĀP3-2 M/N

Power Rating : DC 5V

Test Mode : TX 802.11a CH36 5180MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
110336.00	39.37	13.91	35.83	54.81	74.00	19.19	Peak
210336.20	39.37	13.91	23.02	42.00	54.00	12.00	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. 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

Data NO. : 107 Ant. pol. : HORIZONTAL

Engineer : Justin

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

Tel: (0512) 63403993

Site NO. : 3m chamber

Dis. / Ant. : 3m 3115 (62960)-12-04 Limit : FCC PART 15 C PK Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point
M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11a CH44 5220MHz

Test Mode

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
110300.00	39.34	13.72	36.83	55.59	74.00	18.41	Peak
210309.90	39.35	13.91	22.94	41.90	54.00	12.10	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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. : 108 Ant. pol. : VERTICAL Site NO. : 3m chamber Dis. / Ant. : 3m 3115 (62960)-12-04 Limit : FCC PART 15 C PK Env. / Ins. : 20.6*C&42%/ESCI Engineer : Justin

: TI-nspire CX navigator access point : TINAVAP3-2 EUT

M/N

Power Rating : DC 5V
Test Mode : TX 802.11a CH44 5220MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 9402.43	38.90	12.53	22.83	39.79	54.00	14.21	Average
2 9412.00	38.90	12.39	37.85	54.67	74.00	19.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. 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

Engineer : Justin

Economic Development Zone, JiangSu, China

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

Site NO. : 3m chamber

Data NO. : 109 Ant. pol. : HORIZONTAL Site NO. : 3m chamber

Dis. / Ant. : 3m 3115 (62960)-12-04

Limit : FCC PART 15 C PK

Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point

M/N : TINAVAP3-2

Power Rating : DC 5V

Test Mode : TX 802.11a CH48 5240MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
110336.00	39.37	13.91	36.22	55.20	74.00	18.80	Peak
210336.60	39.37	13.91	23.09	42.07	54.00	11.93	Average

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading.

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

Data NO. : 110 Ant. pol. : VERTICAL

Engineer : Justin

Economic Development Zone, JiangSu, China

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

Site NO. : 3m chamber

Dis. / Ant. : 3m 3115 (62960)-12-04 Limit : FCC PART 15 C PK Env. / Ins. : 20.6*C&42%/ESCI

: TI-nspire CX navigator access point : TINAVAP3-2 EUT

M/N

Power Rating : DC 5V
Test Mode : TX 802.11a CH48 5240MHz Test Mode

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
110910.60	39.33	14.21	21.91	41.19	54.00	12.81	Average
210912.00	39.33	14.21	35.65	54.93	74.00	19.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

are not reported.

4.7.2. Type of Network: IEEE 802.11n HT20



Audix Technology (Wujiang) Co., Ltd.

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

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

Site NO. : 3m chamber

Data NO. : 111 Ant. pol. : HORIZONTAL . 3m Champer : 3m 3115 (62960)-12-04 : FCC PART 15 C PK : 20.6*C&42%/ESCI : TI-nspire CX navigator access point : TINAVAP3-2 . DC 54 Dis. / Ant. Limit Env. / Ins. Engineer : Justin

EUT

M/N

Power Rating : DC 5V : TX 802.11nHT20 CH36 5180MHz Test Mode

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 8560.00	38.55	11.79	38.61	54.34	74.00	19.66	Peak
2 8569.80	38.55	11.79	23.47	39.20	54.00	14.80	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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. : 112 Ant. pol. : VERTICAL Site NO. : 3m chamber : 3m 3115 (62960)-12-04 : FCC PART 15 C PK Dis. / Ant. Limit Env. / Ins. : 20.6*C&42%/ESCI Engineer : Justin

EUT : TI-nspire CX navigator access point

M/N: TINAVAP3-2

Power Rating : DC 5V : TX 802.11nHT20 CH36 5180MHz Test Mode

Memo

Ant. Cable Emission Reading Freq. Factor Loss Level Limits Margin Remark (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 110936.00 39.33 14.57 34.92 74.00 54.56 19.44 Peak 210941.87 39.32 14.57 22.04 41.67 54.00 12.33 Average



Audix Technology (Wujiang) Co., Ltd.

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

Data NO. : 113 Ant. pol. : HORIZONTAL

Engineer : Justin

Economic Development Zone, JiangSu, China

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

Site NO. : 3m chamber

Site NO. : 3m chamber

Dis. / Ant. : 3m 3115 (62960)-12-04

Limit : FCC PART 15 C PK

Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point

M/N : TINAVAP3-2

Power Rating : DC 5V

Test Mode : TX 802.11nHT20 CH44 5220MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
110336.00	39.37	13.91	36.02	55.00	74.00	19.00	Peak
210339.97	39.37	13.91	23.12	42.10	54.00	11.90	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. 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 : Justin

Economic Development Zone, JiangSu, China

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

Site NO. : 3m chamber
Dis. / Ant. : 3m 3115 (62960)-12-04
Limit : FCC PART 15 C PK Data NO. : 114 Ant. pol. : VERTICAL

Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point

M/N : TINAVAP3-2 Power Rating : DC 5V Test Mode : TX 802.11nHT20 CH44 5220MHz Test Mode

Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
_	9340.00	38.90	12.50	37.31	54.22	74.00	19.78	Peak
	9343.40	38.90	12.50	23.37	40.28	54.00	13.72	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

Data NO. : 115 Ant. pol. : HORIZONTAL

Engineer : Justin

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

Tel: (0512) 63403993

: 3m chamber

Dis. / Ant. : 3m 3115 (62960)-12-04 Limit : FCC PART 15 C PK Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point
M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11nHT20 CH48 5240MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
111380.00	39.45	14.30	35.56	55.10	74.00	18.90	Peak
211389.40	39.45	14.30	22.93	42.47	54.00	11.53	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

Engineer : Justin

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

Site NO. : 3m chamber

Data NO. : 116 Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115 (62960)-12-04
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/ESCI
EUT : TI-nspire CX navigator access point
M/N : TINAVAP3-2

Power Rating : DC 5V

Test Mode : TX 802.11nHT20 CH48 5240MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 9426.00	38.90	12.39	22.82	39.64	54.00	14.36	Average
2 9436.00	38.90	12.39	38.01	54.83	74.00	19.17	Peak

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

are not reported.

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

4.8.1. IEEE 802.11a



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

Engineer : Justin

Data: 25 File: G:\Test Data\2013\Reports\04\G1304009.EM6 (124) 110 Level (dBuV/m) Date: 2013-04-25 FCC PART 15 C AV 55 ⁰5100 5120. 5160. 5180. 5200

Data NO. : 25 Ant. pol. : HORIZONTAL Site NO. : 3m chamber
Dis. / Ant. : 3m 3115 (62960)-12-04
Limit : FCC PART 15 C AV

Frequency (MHz)

Env. / Ins. : 20.6*C&42%/ESCI
EUT : TI-nspire CX navigator access point

: TINAVĀP3-2

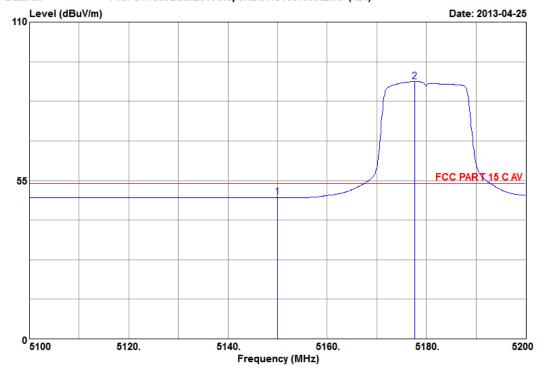
Power Rating : DC 5V Test Mode : TX 802.11a CH36 5180MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	39.44	49.00	54.00	5.00	Average
2 5177.70	34.71	9.34	76.09	85.67	54.00	-31.67	Average



File: G:\Test Data\2013\Reports\04\G1304009.EM6 (124)



Site NO. : 3m chamber

Dis. / Ant. : 3m 3115 (62960)-12-04

Limit : FCC PART 15 C AV

Env. / Ins. : 20.6*C&42%/ESCI

EUT : TI-nspire CX navigator access point

M/N : TINAVAP3-2

Power Rating : DC 5V

Test Mode : TX 802.11a CH36 5180MHz

Memo : Data NO. : 26 Ant. pol. : VERTICAL Engineer : Justin

Memo

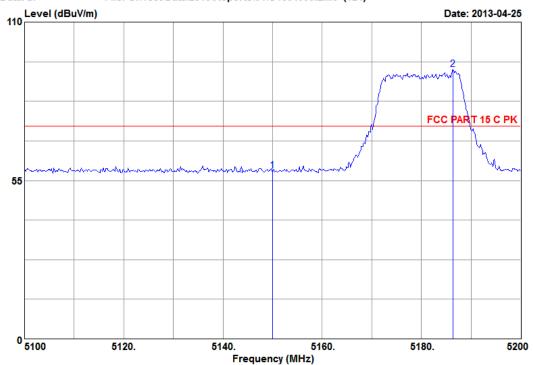
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	39.59	49.15	54.00	4.85	Average
2 5177.70	34.71	9.34	79.80	89.38	54.00	-35.38	Average



Data NO. : 27 Ant. pol. : HORIZONTAL

Engineer : Justin





Site NO. : 3m chamber

Dis. / Ant. : 3m 3115 (62960)-12-04 Limit : FCC PART 15 C PK

Limit Env. / Ins. : 20.6*C&42%/ESCI

ENV. / Ins. : 20.84ca42%ESCI
EUT : TI-nspire CX navigator access point
M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11a CH36 5180MHz

Memo

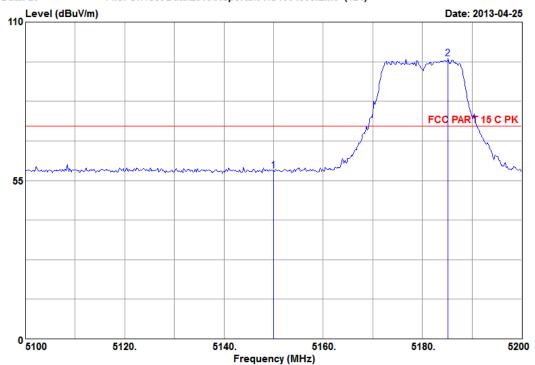
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	48.85	58.41	74.00	15.59	Peak
2 5186.40	34.71	9.34	83.92	93.50	74.00	-19.50	Peak



Data NO. : 28 Ant. pol. : VERTICAL

Engineer : Justin





Site NO. : 3m chamber
Dis. / Ant. : 3m 3115 (62960)-12-04
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/ESCI Limit Env. / Ins.

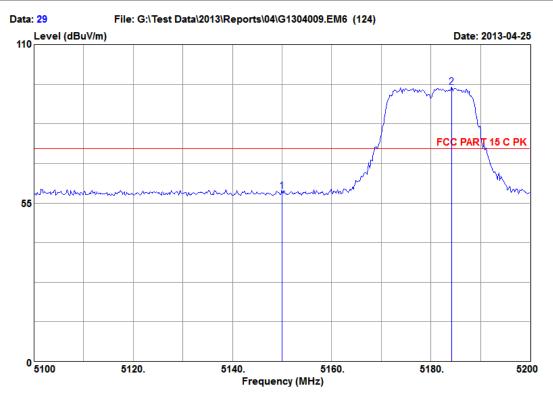
EUT : TI-nspire CX navigator access point M/N : TINAVAP3-2
Power Rating : DC 5V
Test Mode : TX 802.11a CH36 5180MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	48.75	58.31	74.00	15.69	Peak
2 5185.20	34.71	9.34	87.72	97.30	74.00	-23.30	Peak



Engineer : Justin



Site NO. : 3m chamber

Data NO. : 29 Ant. pol. : HORIZONTAL : 3m 3115 (62960)-12-04 : FCC PART 15 C PK : 20.6*C&42%/ESCI Dis. / Ant. Limit

Env. / Ins. : TI-nspire CX navigator access point EUT

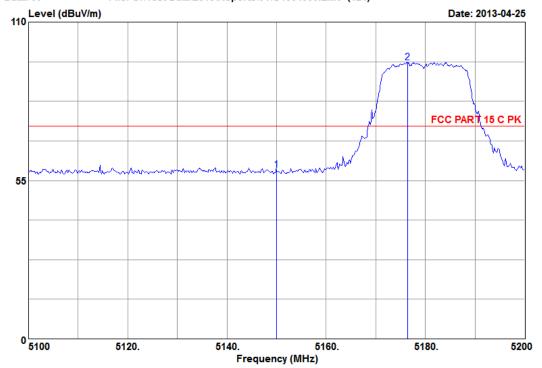
M/N : TINAVAP3-2

Power Rating : DC 5V Test Mode : TX 802.11nHT20 CH36 5180MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	49.50	59.06	74.00	14.94	Peak
2 5184.20	34.71	9.34	85.69	95.27	74.00	-21.27	Peak







Data NO. : 30 Ant. pol. : VERTICAL Site NO. : 3m chamber Engineer : Justin

: TI-nspire CX navigator access point : TINAVAP3-2 EUT

M/N

Power Rating : DC 5V
Test Mode : TX 802.11nHT20 CH36 5180MHz

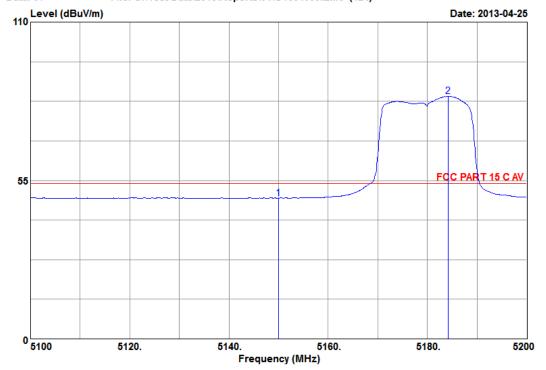
Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	49.17	58.73	74.00	15.27	Peak
2 5176.40	34.71	9.34	86.37	95.95	74.00	-21.95	Peak



Engineer : Justin





Site NO. : 3m chamber
Dis. / Ant. : 3m 3115 (62960)-12-04
Limit : FCC PART 15 C AV
Env. / Ins. : 20.6*C&42%/FSCT
EUT Data NO. : 31 Ant. pol. : HORIZONTAL

: TI-nspire CX navigator access point : TINAVAP3-2 EUT

M/N

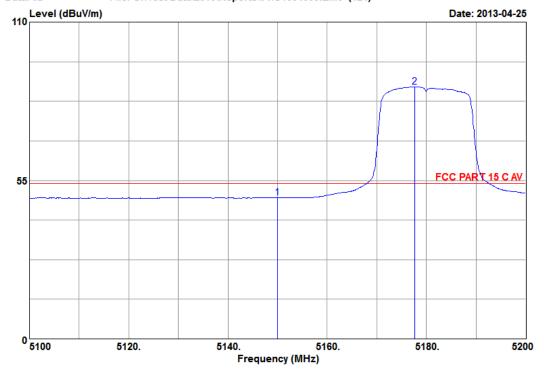
Power Rating : DC 5V Test Mode : TX 802.11nHT20 CH36 5180MHz Test Mode

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	39.33	48.89	54.00	5.11	Average
2 5184.20	34.71	9.34	74.64	84.22	54.00	-30.22	Average



File: G:\Test Data\2013\Reports\04\G1304009.EM6 (124)



Free
Site NO. : 3m chamber
Dis. / Ant. : 3m 3115 (62960)-12-04
Limit : FCC PART 15 C AV
Env. / Ins. : 20.6*C&42%/FSGT
EUT Data NO. : 32 Ant. pol. : VERTICAL Engineer : Justin

: TI-nspire CX navigator access point : TINAVAP3-2 EUT

M/N

Power Rating : DC 5V Test Mode : TX 802.11nHT20 CH36 5180MHz

Memo

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5150.00	34.69	9.34	39.37	48.93	54.00	5.07	Average
2 5177.70	34.71	9.34	77.91	87.49	54.00	-33.49	Average

5. 26 dB BANDWIDTH MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04

5.2. Block Diagram of Test Setup



----: SIGNAL LINE

5.3. Test Procedure

The measurement guideline was according to KDB789033 D01-v01r03

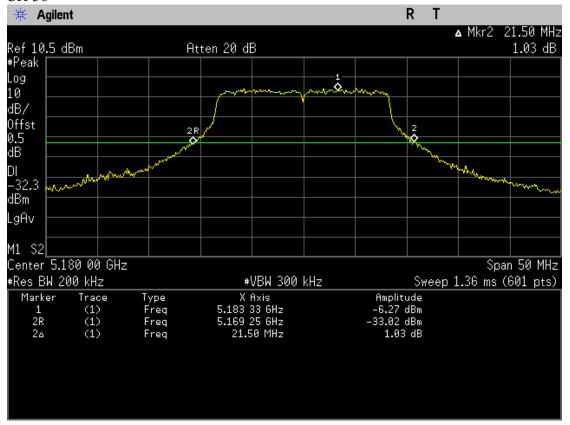
5.4. Test Results

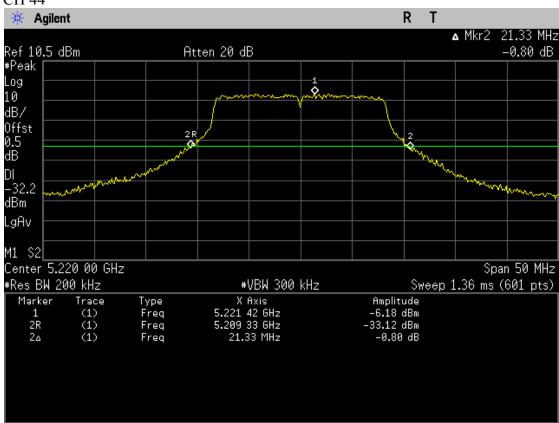
PASSED. All the test results are attached in next pages.

Item	Channel	Test Frequency	26dB Bandwidth
	36	5180MHz	21.50 MHz
802.11a	44	5220MHz	21.33 MHz
	48	5240MHz	21.33 MHz
002 11	36	5180MHz	22.33 MHz
802.11n HT20	44	5220MHz	22.00 MHz
11120	48	5240MHz	22.00 MHz

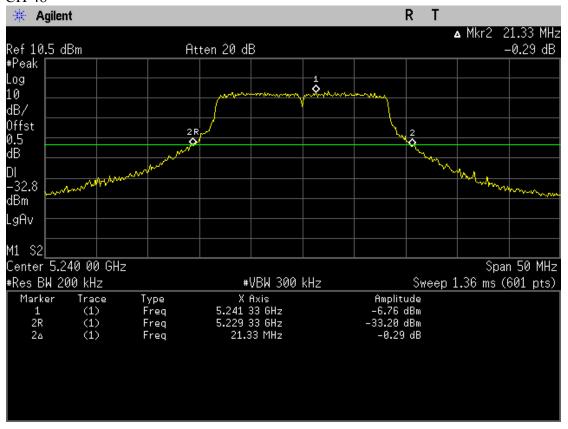
5.4.1. 802.11a

CH 36

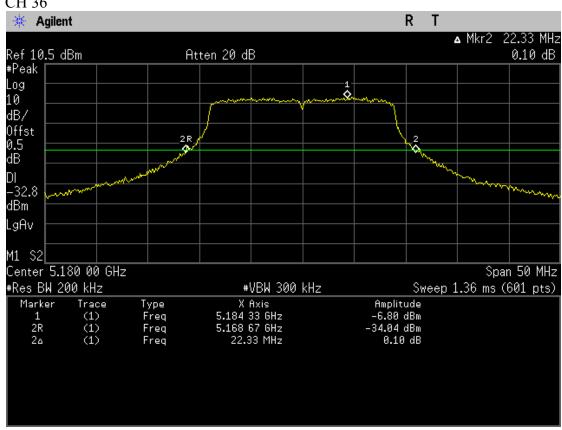




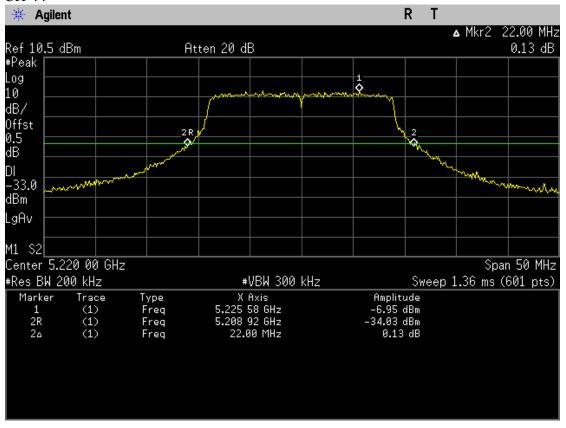


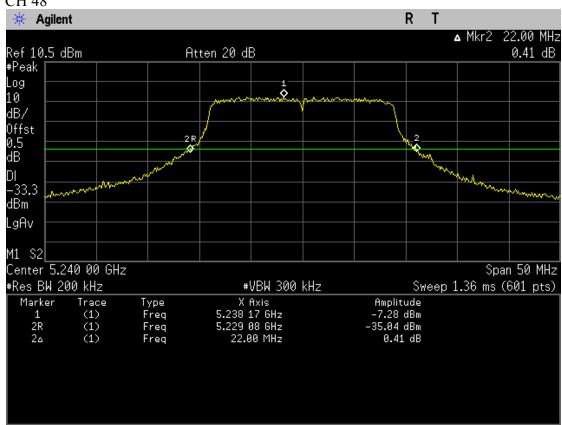


5.4.2. 802.11n HT20









6. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Agilent	N1911A	MY45100361	2013-01-05	2014-01-04
2.	Power Sensor	Agilent	N1921A	MY45240521	2013-01-05	2014-01-04

6.2. Block Diagram of Test Setup



----: SIGNAL LINE

6.3. Specification Limits (§15.407(a)(1))

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz.

6.4. Test Procedure

The measurement guideline was according to KDB789033 D01-v01r03

6.5. Test Results

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

Test Date: Apr.19, 2013 Test Mode: 802.11a

Tes	t Condition		P	eak Power (dBm)
Temperature (*C)	Voltage (V)	Data rate (Mbps)	CH 36 5180MHz	CH 44 5220MHz	CH 48 5240MHz
20	5	6	13.32	13.78	14.72
20	5	9	14.26	14.16	14.14
20	5	12	14.39	14.61	14.29
20	5	18	14.48	14.59	14.54
20	5	24	14.49	14.37	14.63
20	5	36	14.88	15.38	15.67
20	5	48	14.56	15.22	15.07
20	5	54	12.45	13.17	13.37

Test Date: Apr.19, 2013 Test Mode: 802.11n HT20

Tes	t Condition		Peak Power (dBm)			
Temperature (*C)	Voltage (V)	Data rate (Mbps)	CH 36 5180MHz	CH 44 5220MHz	CH 48 5240MHz	
20	5	MCS0	13.66	14.19	13.94	
20	5	MCS1	14.28	14.97	14.17	
20	5	MCS2	13.95	14.23	14.69	
20	5	MCS3	14.86	15.16	15.23	
20	5	MCS4	14.05	14.39	14.01	
20	5	MCS5	12.87	14.20	13.77	
20	5	MCS7	11.33	12.49	12.32	

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04

7.2. Block Diagram of Test Setup

The same as section 5.2.

7.3. Specification Limits (§15.407(a)-(1) (2))

For the band 5.15-5.25GHz, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.

7.4. Test Procedure

The measurement guideline was according to KDB789033 D01-v01r03

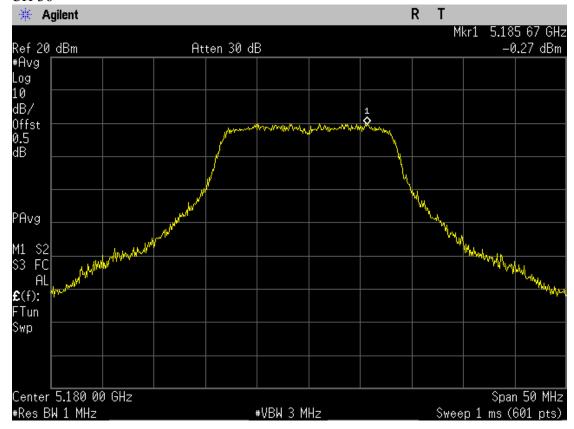
7.5. Test Results

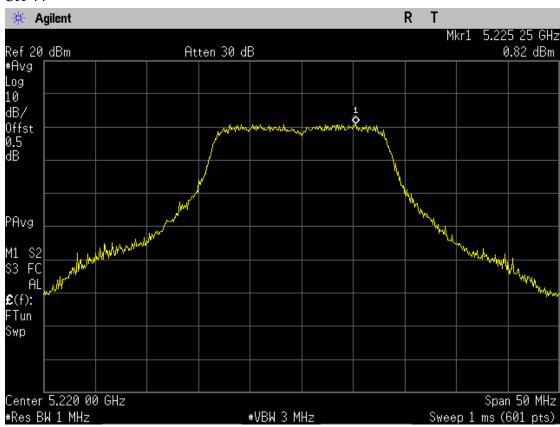
PASSED. All the test results are attached in next page.

Test Date: A	Apr.20, 2013	Temperature: 19.1 ℃	Humidity: 58 %
Item	Channel	Frequency(GHz)	Value(dBm)
	36	5.18567	-0.27
802.11a	44	5.22525	0.82
	48	5.23383	0.63
002 11	36	5.18167	-0.03
802.11n HT20	44	5.22325	0.66
11120	48	5.24567	0.43

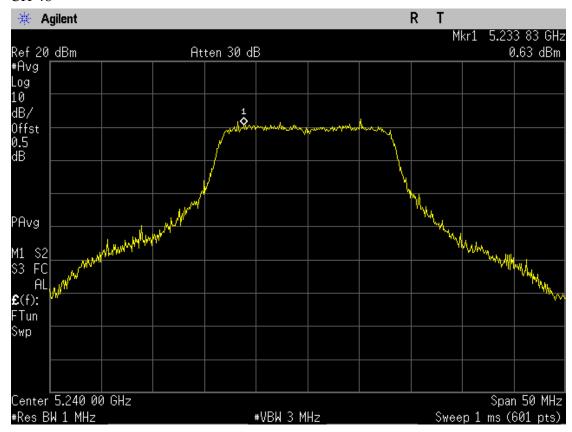
7.5.1. 802.11a

CH 36

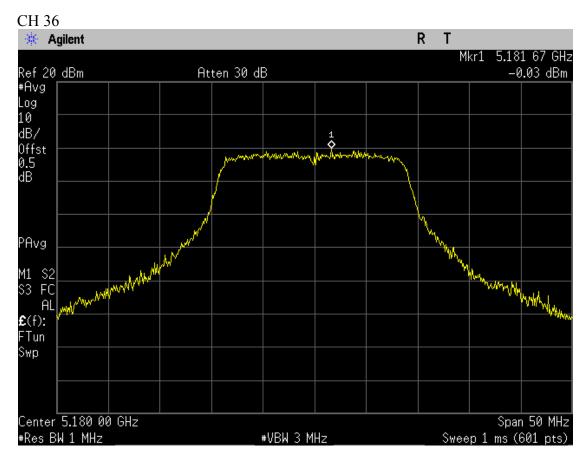




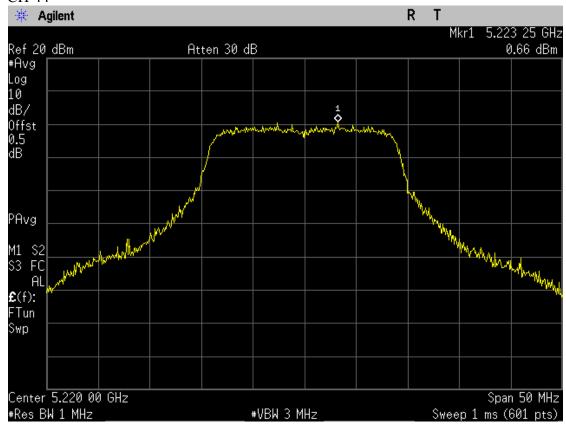
CH 48

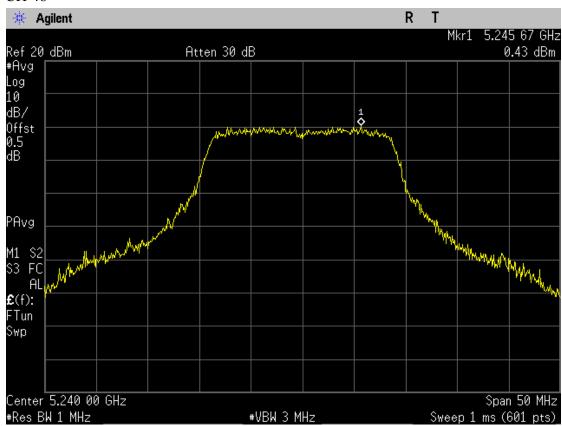


7.5.2. 802.11n HT20









8. EMISSION LIMITATIONS MEASUREMENT

8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04

8.2. Block Diagram of Test Setup

The same as section 5.2.

8.3. Specification Limits

-27dBm/MHz e.i.r.p.

8.4. Test Procedure

The measurement guideline was according to KDB789033 D01-v01r03

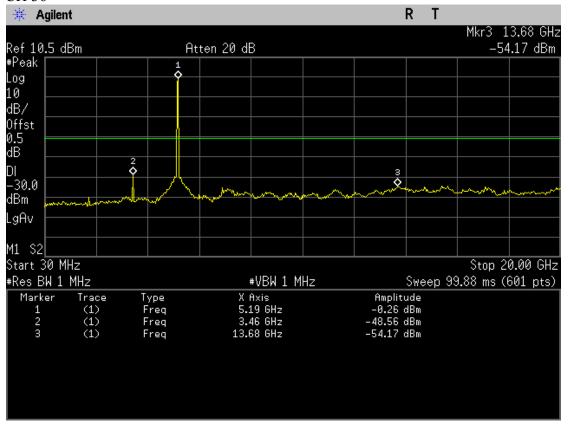
8.5. Test Results

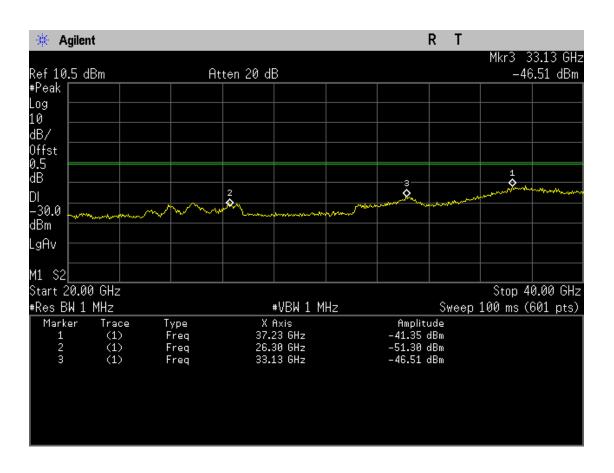
PASSED. All the test results are attached in next pages.

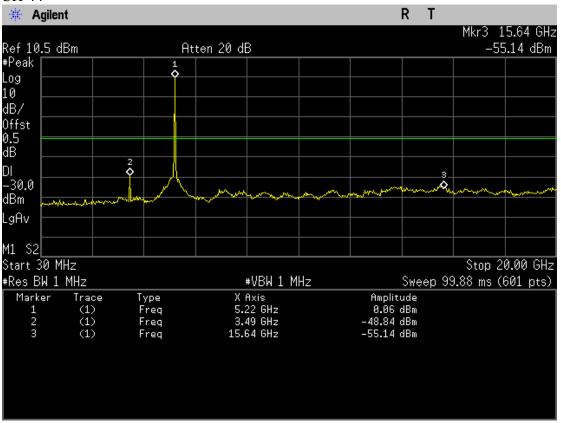
Test Date: Apr.20, 2013 Temperature: 19.1 °C Humidity: 58 %

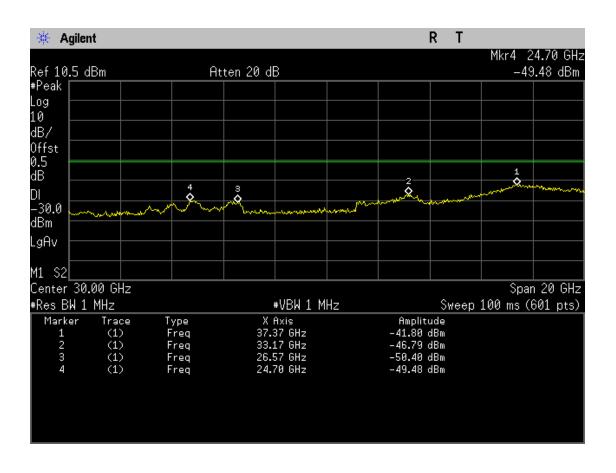
Item	Channel	Frequency(GHz)	Amplitude(dBm)
		5.19	-0.26
		3.46	-48.56
	36	13.68	-54.17
	30	37.23	-41.35
		26.30	-51.30
		33.13	-46.51
		5.22	0.06
		3.49	-48.84
		15.64	-55.14
802.11a	44	37.37	-41.80
802.11a		33.17	-46.79
		26.57	-50.48
		24.70	-49.48
		5.26	-0.77
		3.49	-48.83
	48	13.84	-53.85
	40	37.27	-40.78
		24.80	-49.84
		33.10	-47.77
		5.19	0.31
		3.46	-48.62
		7.15	-55.90
	36	37.33	-42.02
		33.20	-47.64
		26.27	-50.22
		24.90	-48.63
		5.22	-0.58
		3.49	-49.02
		11.25	-56.68
802.11n	44	15.57	-54.47
HT20	77	37.23	-42.50
		24.83	-49.46
		33.27	-46.61
		26.40	-50.96
		5.26	-1.90
		3.49	-48.88
		13.51	-55.50
	48	37.20	-41.68
		33.20	-47.72
		26.20	-51.01

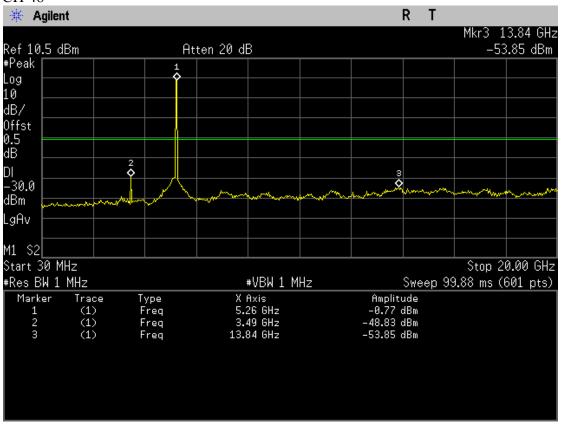
8.5.1. 802.11a

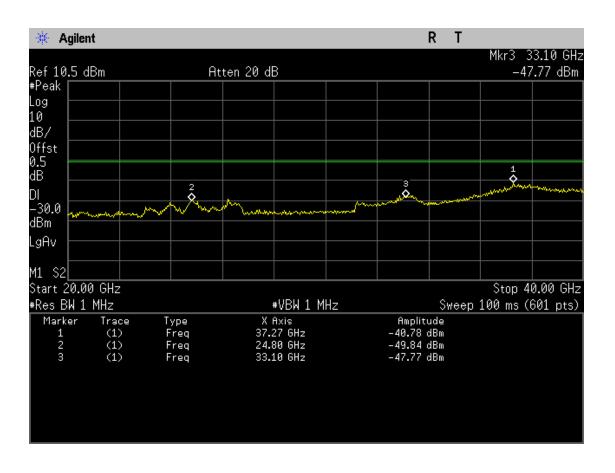




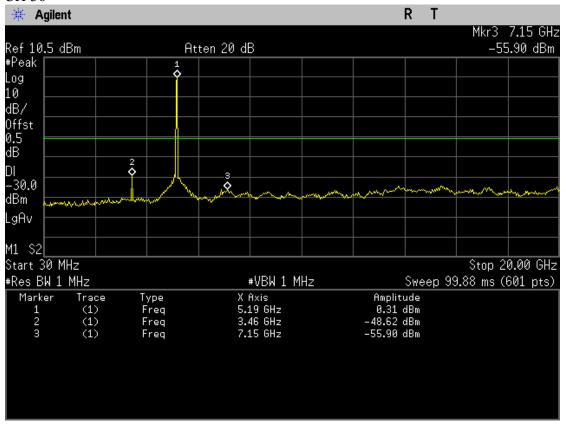


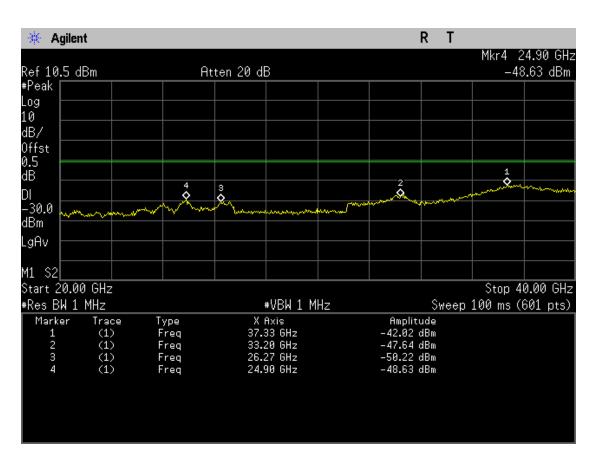


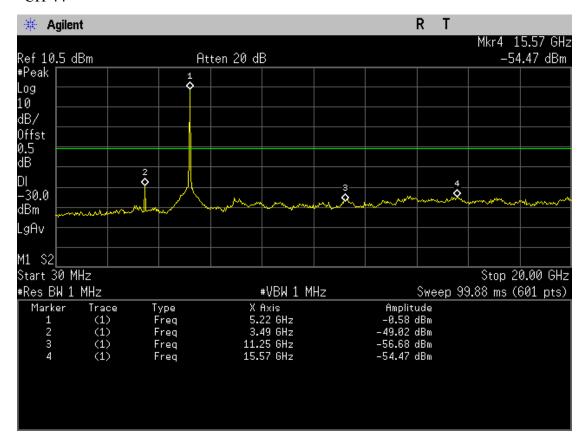


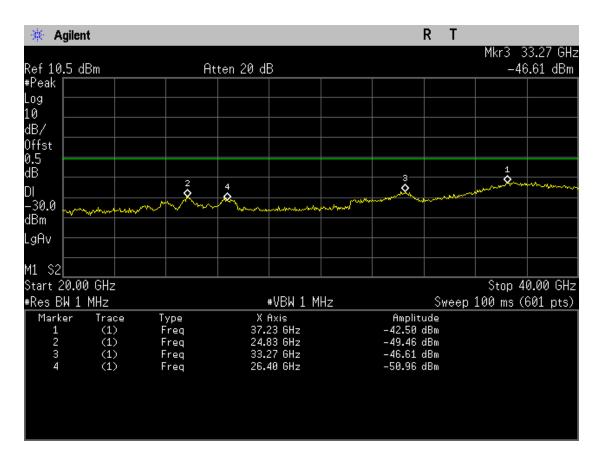


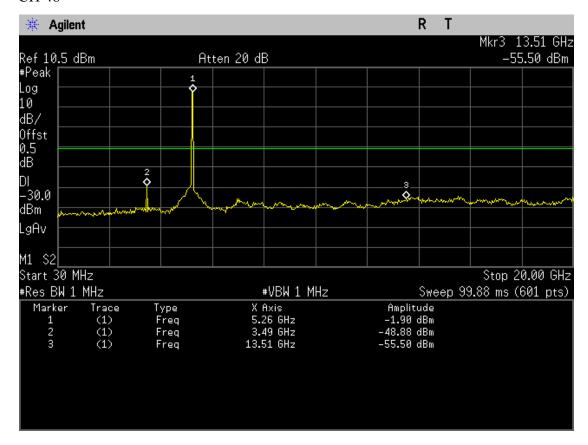
8.5.2. For 802.11n HT20

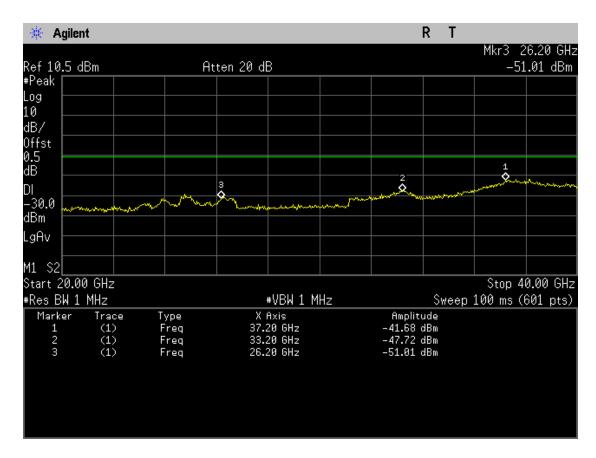












9. PEAK POWER EXCURSION MEASUREMENT

9.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04

9.2. Block Diagram of Test Setup

The same as section 5.2.

9.3. Specification Limits (§15.407(a)(6))

The ratio of the peak excursion of the modulation envelope(measured using a peak hold function) to the maximum conducted output power(measured as specified above) shall not exceed 13dB across any 1MHz bandwidth or the emission bandwidth whichever is less.

9.4. Test Procedure

The measurement guideline was according to KDB789033 D01-v01r03

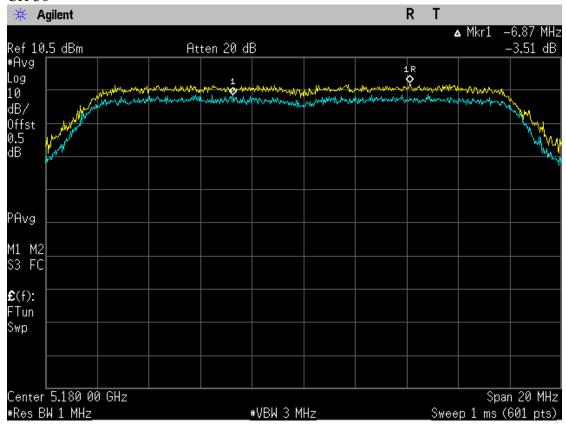
9.5. Test Results

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

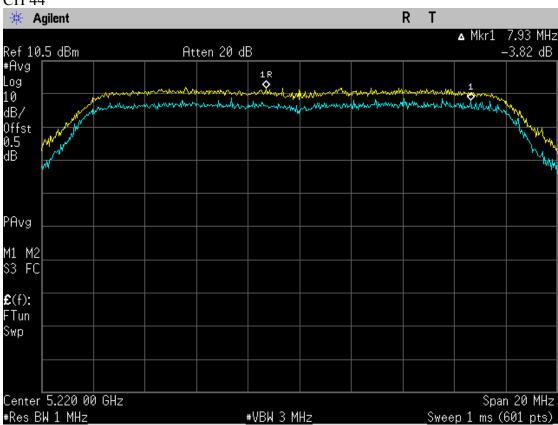
Test Date: Apr.21, 2013 Temperature: 19.1 °C Humidity: 58 %

Item	Channel	Frequency(GHz)	Peak Power Excursion (dB)
802.11a	36	5.180	-3.51
802.11a	44	5.220	-3.82
	48	5.240	-3.94
802.11n	36	5.180	-3.16
HT 20	44	5.220	-2.83
	48	5.240	-4.52

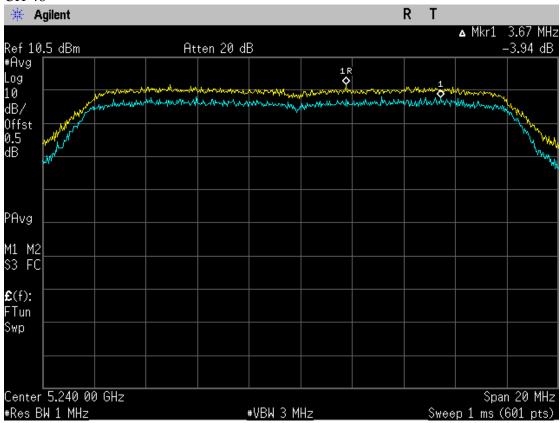
9.5.1. 802.11a



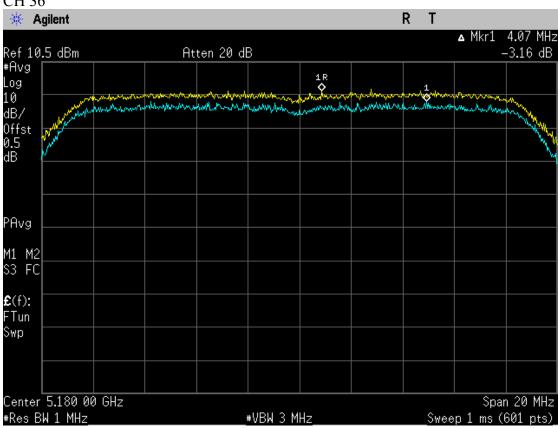




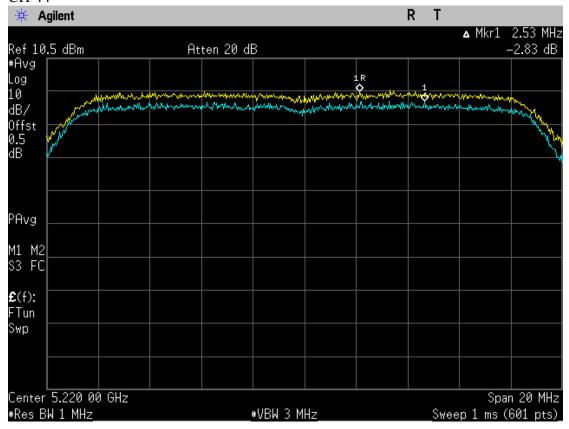


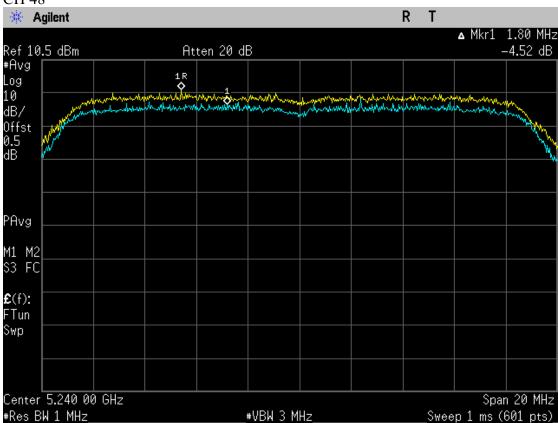


9.5.2. 802.11n HT20









10.OCCUPIED BANDWIDTH 99%POWER MEASUREMENT

10.1.Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04

10.2.Block Diagram of Test Setup

The same as section 5.2.

10.3.Test Procedure

The measurement guideline was according to KDB789033 D01-v01r03

10.4.Test Results

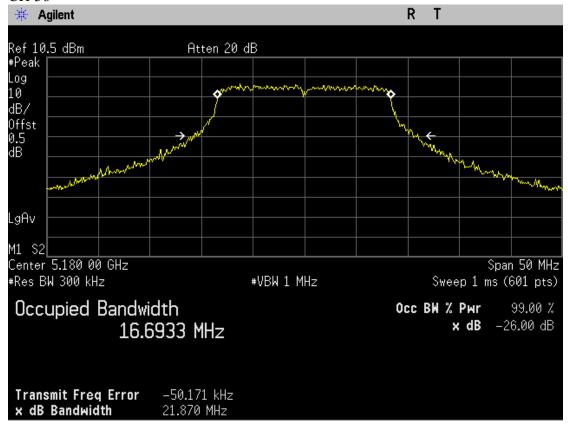
PASSED. All the test results are attached in next pages.

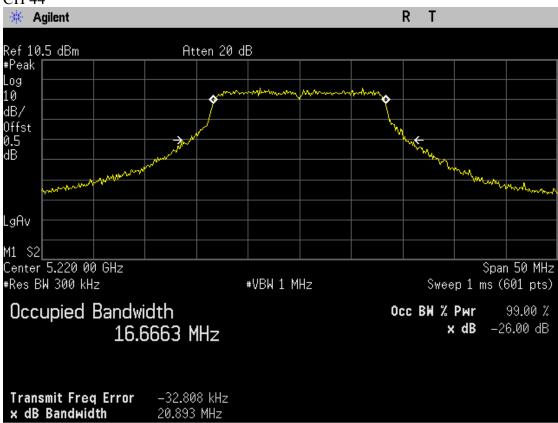
Test Date: Apr.21, 2013 Temperature: 19.1 °C Humidity: 58 %

Item	Channel	Frequency (GHz)	Occupied Bandwidth (MHz)
	36	5.180	16.6933
802.11a	44	5.220	16.6663
	48	5.240	16.6756
000 11	36	5.180	17.8011
802.11n HT 20	44	5.220	17.7789
	48	5.240	17.7833

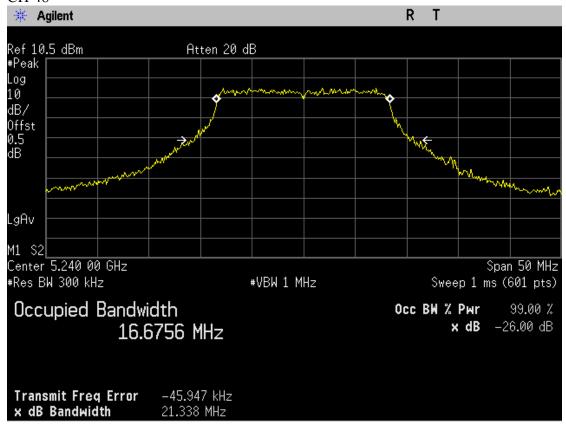
10.4.1. 802.11a

CH 36

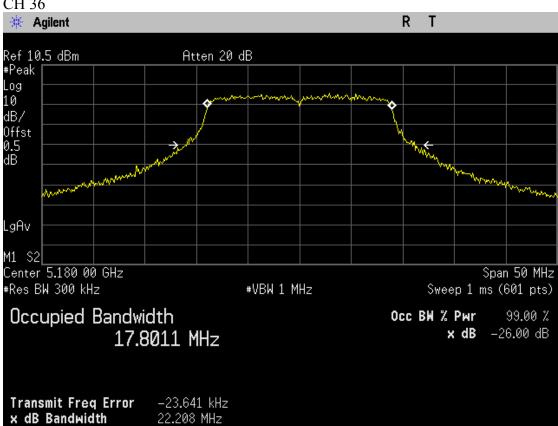


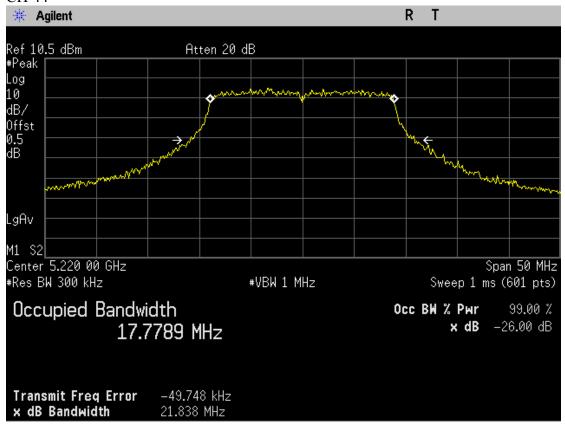


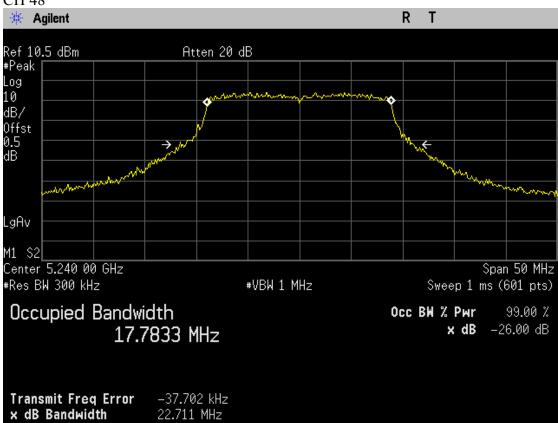




10.4.2. 802.11n HT20







11. Frequency Stability Measurement

11.1.Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04
2.	Constant Temperature/ Humidity	Titech	MHQ-120CLUB	A60614	2012-08-06	2013-08-05

11.2.Block Diagram of Test Setup

The same as section 5.2.

11.3.Test Procedure

The manufacture of the equipment is responsible for ensuring that the frequency stability is such that emissions are always maintained within the band of operation under all conditions.

The measurement guideline was according to FCC, Part 15 Subpart E §15.407(g).

11.4.Specification

Limits

§15.407(g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

11.5.Test Results

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

Test Date: Apr.21, 2013 Temperature: 19.1 °C Humidity: 58 %

CH36 5180MHz

Temperature $(^{\circ}\mathbb{C})$	-20	-10	0	10	20	30	40	50
Voltage	AC 102V							
	102 V							
Frequency (MHz)	5180.023	5180.007	5180.014	5180.002	5180.000	5179.983	5179.967	5179.988
Error(ppm)	4.44	1.35	2.70	3.86	0	-3.28	-6.37	-2.32

Temperature (°C)	-20	-10	0	10	20	30	40	50
Voltage	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V
Frequency (MHz)	5180.02 5	5180.017	5180.008	5180	5179.992	5179.975	5179.967	5179.967
Error(ppm)	4.83	3.28	1.54	0	-1.54	-4.83	-6.37	-6.37

Temperature $(^{\circ}\mathbb{C})$	-20	-10	0	10	20	30	40	50
Voltage	AC 138V							
Frequency (MHz)	5180.031	5180.015	5180.011	5180	5180	5179.986	5179.967	5179.973
Error(ppm)	5.98	2.90	2.12	0	0	-2.70	-6.37	-5.21

CH44 5220MHz

Temperature $(^{\circ}\mathbb{C})$	-20	-10	0	10	20	30	40	50
Voltage	AC 102V							
Frequency (MHz)	5220.023	5220.021	5220.011	5220.006	5220	5219.981	5219.974	5219.975
Error(ppm)	4.41	4.02	2.11	1.15	0	-3.64	-4.98	-4.79

Temperature $(^{\circ}\mathbb{C})$	-20	-10	0	10	20	30	40	50
Voltage	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V
Frequency (MHz)	5220.025	5220.025	5220.008	5220.000	5219.992	5219.975	5219.967	5219.967
Error(ppm)	4.79	4.79	1.53	0	-1.53	-4.79	-6.32	-6.32

Temperature (°C)	-20	-10	0	10	20	30	40	50
Voltage	AC 138V							
Frequency (MHz)	5220.031	5220.021	5220.009	5220.000	5219.988	5219.981	5219.970	5219.96 7
Error(ppm)	5.94	4.02	1.72	0	-2.30	-3.64	-5.75	-6.32

CH48 5240MHz

Temperature $(^{\circ}\mathbb{C})$	-20	-10	0	10	20	30	40	50
Voltage	AC 102V	AC 102V						
Frequency (MHz)	5240.023	5240.018	5240.011	5240.000	5239.984	5239.971	5239.976	5239.979
Error(ppm)	4.39	3.44	2.10	0	-3.05	-5.53	-4.58	-4.01

Temperature $(^{\circ}\mathbb{C})$	-20	-10	0	10	20	30	40	50
Voltage	AC 120V							
Frequency (MHz)	5240.025	5240.017	5240.008	5240.008	5239.983	5239.975	5239.967	5239.975
Error(ppm)	4.77	3.24	1.53	1.53	-3.24	-4.63	-6.30	-4.63

Temperature $(^{\circ}\mathbb{C})$	-20	-10	0	10	20	30	40	50
Voltage	AC 138V	AC 138V	AC 138V	AC 138V	AC 138V	AC 138V	AC 138V	AC 138V
Frequency (MHz)	5240.032	5240.021	5240.013	5240.000	5239.978	5239.986	5239.964	5239.977
Error(ppm)	6.11	4.01	2.48	0	-4.20	-2.67	-6.87	-4.39

12. DEVIATION TO TEST SPECIFICATIONS

[NONE]