APPLICATION FOR CERTIFICATION
(Class II Permissive Change)
On Behalf of
Texas Instruments
TI-Nspire Navigator ™ Wireless Cradle

Model No. : TI-Nspire Navigator ™ Wireless Cradle
Brand : TEXAS INSTRUMENTS
FCC ID : V7R-TINAVWC

Prepared for

Texas Instruments
5800 Banner Drive Dallas, Texas, USA 75251

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-F0805003
Date of Test : Sep. 15~21, 2009
Date of Report : Sep. 21, 2009

TABLE OF CONTENTS

Description Page

TEST REPORT CERTIFICATION

Applicant	:	Texas Instruments
Manufacturer	:	Inventec Appliances (pudong)Corporation
EUT Description	:	TI-Nspire Navigator ™ Wireless Cradle
FCC ID	:	V7R-TINAVWC
(A) Model No.	:	TI-Nspire Navigator ™ Wireless Cradle
(B) BRAND	:	TEXAS INSTRUMENTS
(C) POWER SUPPLY	:	DC 3.7V

Applicable Standards:

FCC RULES AND REGULATIONS PART 15 SUBPART C, July. 2008
ANSI C63.4/2003

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 15.205, 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	:	Sep. 15~21, 2009
Prepared by	:	(Candy Tang/Assistant)
Reviewer	:	(Kin Lin/Section Manager)
Approved & Authorized Signer	:	(Allen Wang/Senior Manager)

1. DESCRIPTION OF VERTION

Edition No.	Date of Revision	Revision Summary	Report Number
0	May 16, 2008	Original Report.	ACWE-F0805003
Rev. A	Sep. 21, 2009	(1) The difference with the original report, the PCB is separated in two pieces which are main board and 26 pin connector board. (2) Schematic & Layout has some modification; electrically there is no major change to affect the basic functional operation including radio frequency function and USB function. Only few discrete components added as the I/O digital signal noise filter.	ACWE-F0805003A

2. SUMMARY OF MEASUREMENTS AND RESULTS

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

Description of Test Item	Standard	Results
RADIATED EMISSION	Section 15.209& Section 15.205	PASS
MAXIMUM PEAK OUTPUT POWER	Section 15.247(b)(3)	PASS

Note: Due to the RF Board without any changes, so RF conducted without any effect and doesn't need to be tested.

3. GENERAL INFORMATION

3.1. Description of Device (EUT)

Description	:	TI-Nspire Navigator ™ Wireless Cradle
Model No.	:	TI-Nspire Navigator ™ Wireless Cradle
FCC ID	:	V7R-TINAVWC
Brand	:	TEXAS INSTRUMENTS
Applicant	:	Texas Instruments 5800 Banner Drive Dallas, Texas, USA 75251
Manufacturer	:	Inventec Appliances (pudong)Corporation No. 789 Pu Xing Road, Shanghai, PRC
Radio Technology	:	CCK & OFDM
Antenna Gain	:	2.06dBi
Type of Network		IEEE 802.11b/g
Frequency Range	:	2412MHz ~ 2462MHz
Tested Frequency	:	2412MHz (Channel 1) 2437MHz (Channel 6) 2462MHz (Channel 11)
Date of Receipt of Sample	:	Aug. 28, 2009
Date of Test	:	Sep. 15~21, 2009

3.2. EUT's Features and Accessories

3.2.1. Product Description and Features

The TI-Nspire™ wireless sled are a moderately complex electronic product containing an IC, rechargeable battery, numerous miscellaneous discrete electronic components, and circuit board. This wireless sled contains features such as an 802.11b/g wireless, USB connectivity, and AC adapter for operation. The wireless sled is the UUT (Unit Under Test).

3.2.2. Test Samples and Accessories

Test Samples:

Quantity	**Item**
2	wireless sleds for compliance testing
6	wireless sleds to do 80/80 test protocol
2	spare wireless sleds to have on hand during EMC test
The TI-Nspire™ wireless sled will be production level or equivalent units and the peripherals will be production units. Sample size is One (1) of each model is necessary for compliance testing. If 80/80 testing is necessary, 6 units will need to be tested.	

Accessories:

SKU	**Quantity / Description**
XX/AD/AC9940/B	1ea AC-9940 UNIVERSAL ADAPTER
XX/AD/AC9926/A	2ea AC 9926 Adapter
NAV/AD/A	1ea AC-9930 TI NAVIGATOR POWER ADAPTER,
CBR2/BK/A	1ea CBR2
NS+/BKT/A	5ea TI-Nspire-CAS calculator
NSVSH/BK/A	1ea TI-Nspire View screen
NS+/BKT/A	1ea TI-Nspire-CAS calculator
	1ea Navigator Access Point/ "NAP" (NWB + WAG102)
	5ea TI-Nspire wireless sled
	1ea TI-Nspire Charging Bay
	1ea Golden Lap top

Cables:

SKU	**Quantity / Description**
	1ea 72 INCH USB STANDARD B TO STANDARD A
CBR2/CA/A	1ea 72 INCH USB STANDARD B TO MINI A,
	1ea 72 INCH USB STANDARD A TO MINI B,

3.3. Operating Condition of EUT

3.3.1. Set up the EUT as test setup diagram.

3.3.2. For conducted emission measurement, setup the EUT as the three test configurations; turn on all the equipment (note: the EUT was charged through the AC adapter), Drive the test software "ART (Version B9)", let EUT operate normal activity.

3.3.3. For other measurement items, keep the EUT be powered by the battery, Drive the test software "ART (Version B9)", let the EUT operate wireless TX activity under measurement.

3.4. 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** FCC filing on Sep. 13, 2006 Registration No.: 252588 **No.1 10m semi-anechoic chamber** **RF Fully anechoic chamber**
NVLAP Lab Code	:	200786-0 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)
DAR-Registration No.	:	DAT-P-264/07-00

3.5. Measurement Uncertainty

Test Item	Uncertainty
Radiation Test (Distance: 3m)	±4.4dB(Horizontal)
	±4.4dB (Vertical)

Remark: Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Maximum Peak Output Power	± 0.33dB

Note: The measurement uncertainty was estimated by CISPR 16-4 "Uncertainty in EMC measurements"- First Edition May, 2003.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

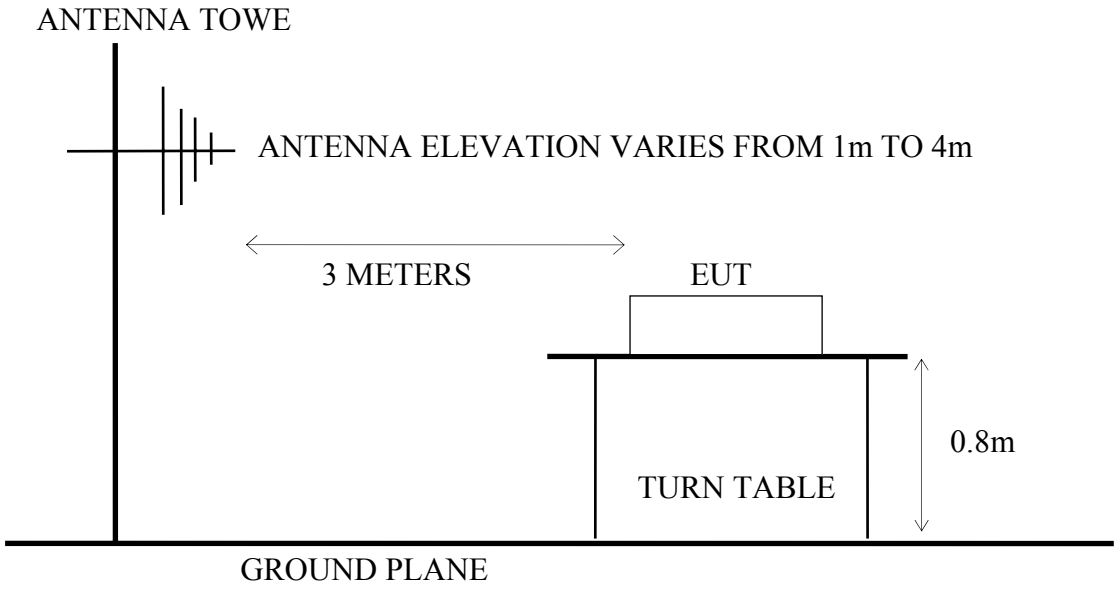
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2009.01.10	2010.01.09
2.	Spectrum Analyzer	Agilent	E7405A	MY45107030	2009.03.25	2010.03.24
3.	Pre-Amplifier	Agilent	8447D	2944A10918	2009.08.14	2010.08.13
4.	Pre-Amplifier	Agilent	8447D	2944A10922	2009.08.14	2010.08.13
5.	Bi-log Antenna (Horizontal)	Schaffner	CBL6112D	22251	2009.05.05	2010.05.04
6.	Bi-log Antenna (Vertical)	Schaffner	CBL6112D	22253	2009.05.05	2010.05.04
7.	Horn Antenna	ESCO	3116	62640	2009.06.08	2010.06.07
8.	Test Receiver	R&S	ESCI	100351	2009.01.07	2010.01.06
9.	50Ω Coaxial Switch # 1	ANRITSU	MP59B	6200547935	2009.08.14	2010.08.13
10.	50Ω Coaxial Switch # 2	ANRITSU	MP59B	6200547937	2009.08.14	2010.08.13
11.	50Ω Coaxial Switch # 3	ANRITSU	MP59B	6200547938	2009.08.14	2010.08.13

4.2. Block Diagram of Test Setup (At No.1 10m Semi-Anechoic chamber)

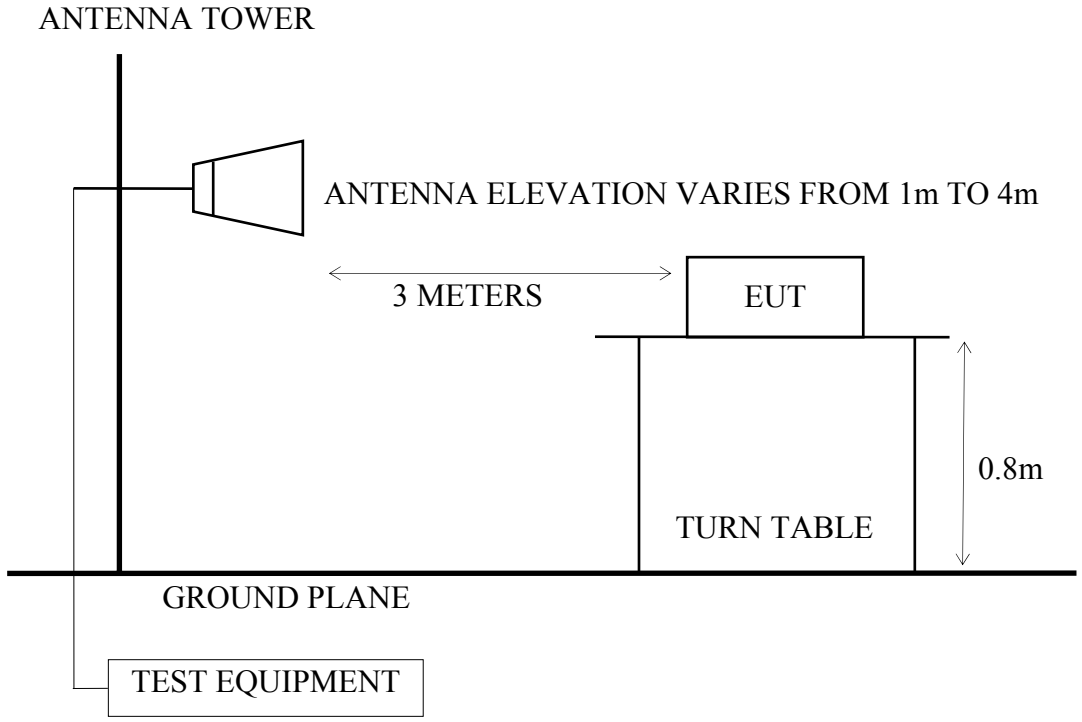
4.2.1. Block Diagram of Test Setup between EUT and simulators

EUT (WIRELESS CRADLE)
(POWERED BY 3.7V BATTERY)

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



4.2.3. No. 1 10m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) (For above 1GHz)



4.3. Radiated Emission Limits (FCC Part15 section 15.209)

Frequency MHz	Distance Meters	Field Strengths Limits	
		μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) Emission level (dBμV/m) = 20 log Emission level (μV/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 and laboratory internal procedure TKC-301-024.

In the radiated emission 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 3 meters. 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. One receiving antenna was used for both horizontal and vertical polarization detection. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to 120 kHz below 1GHz, and set to 1MHz above 1GHz.

The required frequency band (30MHz ~ 25000 MHz) was pre-scanned with peak detector, all final measurements were measured with quasi-peak detector below 1GHz and measured with average detector above 1GHz.

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

Emission Level (dBμV/m) = Meter-Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB)

4.5. Radiated Emission Measurement Results

4.5.1. Type of Network: IEEE 802.11g Data of Test: Sep. 15, 2009

Ambient temperature: 23℃ Relative humidity: 60%
Data Rate: 6Mbps
Test Frequency band: TX 2412MHz

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4808.00	Horizontal	46.33	74.00	27.67
7236.00	Horizontal	57.70	74.00	16.30
9648.00	Horizontal	60.44	74.00	13.56
12060.00	Horizontal	64.08	74.00	9.92

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4809.00	Horizontal	28.53	54.00	25.47
7237.00	Horizontal	36.93	54.00	17.07
9648.00	Horizontal	39.45	54.00	14.55
12060.00	Horizontal	42.96	54.00	11.04

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4808.00	Vertical	45.70	74.00	28.30
7236.00	Vertical	52.64	74.00	21.36
9648.00	Vertical	56.30	74.00	17.70
12060.00	Vertical	59.03	74.00	14.97

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4809.00	Vertical	27.53	54.00	26.47
7238.00	Vertical	37.97	54.00	16.03
9649.00	Vertical	39.59	54.00	14.41
12060.00	Vertical	42.72	54.00	11.28

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.5.2. Type of Network: IEEE 802.11g Data of Test: Sep. 15, 2009

Ambient temperature: 23℃ Relative humidity: 60%
Data Rate: 6Mbps
Test Frequency band: TX 2437MHz

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4859.00	Horizontal	46.16	74.00	27.84
7311.00	Horizontal	52.27	74.00	21.73
9748.00	Horizontal	58.80	74.00	15.20
12185.00	Horizontal	60.40	74.00	13.60

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4859.00	Horizontal	28.67	54.00	25.33
7311.00	Horizontal	37.06	54.00	16.94
9749.00	Horizontal	39.95	54.00	14.05
12187.00	Horizontal	43.11	54.00	10.89

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4859.00	Vertical	47.38	74.00	26.62
7311.00	Vertical	51.68	74.00	22.32
9748.00	Vertical	57.81	74.00	16.19
12185.00	Vertical	59.96	74.00	14.04

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4859.00	Vertical	28.78	54.00	25.22
7311.00	Vertical	37.16	54.00	16.84
9748.00	Vertical	39.75	54.00	14.25
12185.00	Vertical	43.24	54.00	10.76

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.5.3. Type of Network : IEEE 802.11g Data of Test: Sep. 15, 2009

Ambient temperature: 23℃ Relative humidity: 60%
Data Rate: 6Mbps
Test Frequency band: TX 2462MHz

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4944.00	Horizontal	47.47	74.00	26.53
7386.00	Horizontal	51.67	74.00	22.33
9848.00	Horizontal	58.33	74.00	15.67
12310.00	Horizontal	60.94	74.00	13.06

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4944.00	Horizontal	28.07	54.00	25.93
7386.00	Horizontal	36.98	54.00	17.02
9848.00	Horizontal	40.19	54.00	13.81
12310.00	Horizontal	44.88	54.00	9.12

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4944.00	Vertical	46.64	74.00	27.36
7386.00	Vertical	52.86	74.00	21.14
9848.00	Vertical	58.88	74.00	15.12
12310.00	Vertical	60.80	74.00	13.20

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4944.00	Vertical	27.33	54.00	26.67
7387.00	Vertical	36.76	54.00	17.24
9848.00	Vertical	40.11	54.00	13.89
12310.00	Vertical	44.06	54.00	9.94

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.5.4. Type of Network : IEEE 802.11b Data of Test: Sep. 15, 2009

Ambient temperature: 23℃ Relative humidity: 60%
Data Rate: 1Mbps
Test Frequency band: TX 2412MHz

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4808.00	Horizontal	50.62	74.00	23.38
7236.00	Horizontal	53.59	74.00	20.41
9648.00	Horizontal	58.25	74.00	15.75
12060.00	Horizontal	60.36	74.00	13.64

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4807.00	Horizontal	28.25	54.00	25.75
7236.00	Horizontal	37.83	54.00	16.17
9647.00	Horizontal	39.42	54.00	14.58
12060.00	Horizontal	43.01	54.00	10.99

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4808.00	Vertical	50.61	74.00	23.39
7236.00	Vertical	52.54	74.00	21.46
9648.00	Vertical	56.59	74.00	17.41
12060.00	Vertical	69.82	74.00	14.18

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4809.00	Vertical	28.13	54.00	25.87
7238.00	Vertical	37.29	54.00	16.71
9649.00	Vertical	39.35	54.00	14.65
12060.00	Vertical	43.34	54.00	10.66

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.5.5. Type of Network: IEEE 802.11b Data of Test: Sep. 15, 2009

Ambient temperature: 23℃ Relative humidity: 60%
Data Rate: 1Mbps
Test Frequency band: TX 2437MHz

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4859.00	Horizontal	47.74	74.00	26.26
7311.00	Horizontal	52.08	74.00	21.92
9748.00	Horizontal	59.00	74.00	15.00
12185.00	Horizontal	61.01	74.00	12.99

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4860.00	Horizontal	28.33	54.00	25.67
7312.00	Horizontal	37.95	54.00	16.05
9749.00	Horizontal	39.64	54.00	14.36
12188.00	Horizontal	42.16	54.00	11.84

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4859.00	Vertical	50.32	74.00	23.68
7311.00	Vertical	52.14	74.00	21.86
9748.00	Vertical	57.85	74.00	16.15
12185.00	Vertical	59.91	74.00	14.09

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4859.00	Vertical	28.59	54.00	25.41
7312.00	Vertical	36.50	54.00	17.50
9750.00	Vertical	39.21	54.00	14.79
12186.00	Vertical	42.88	54.00	11.12

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.5.6. Type of Network: IEEE 802.11b Data of Test: Sep. 15, 2009

Ambient temperature: 23℃ Relative humidity: 60%
Data Rate: 1Mbps
Test Frequency band: TX 2462MHz

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4944.00	Horizontal	51.57	74.00	22.43
7386.00	Horizontal	51.28	74.00	22.72
9848.00	Horizontal	58.52	74.00	15.48
12310.00	Horizontal	60.28	74.00	13.72

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4943.00	Horizontal	28.32	54.00	25.68
7385.00	Horizontal	38.15	54.00	15.85
9847.00	Horizontal	40.31	54.00	13.69
12310.00	Horizontal	44.76	54.00	9.24

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Peak

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4944.00	Vertical	51.64	74.00	22.36
7386.00	Vertical	52.75	74.00	21.25
9848.00	Vertical	57.31	74.00	16.69
12310.00	Vertical	60.23	74.00	13.77

Average

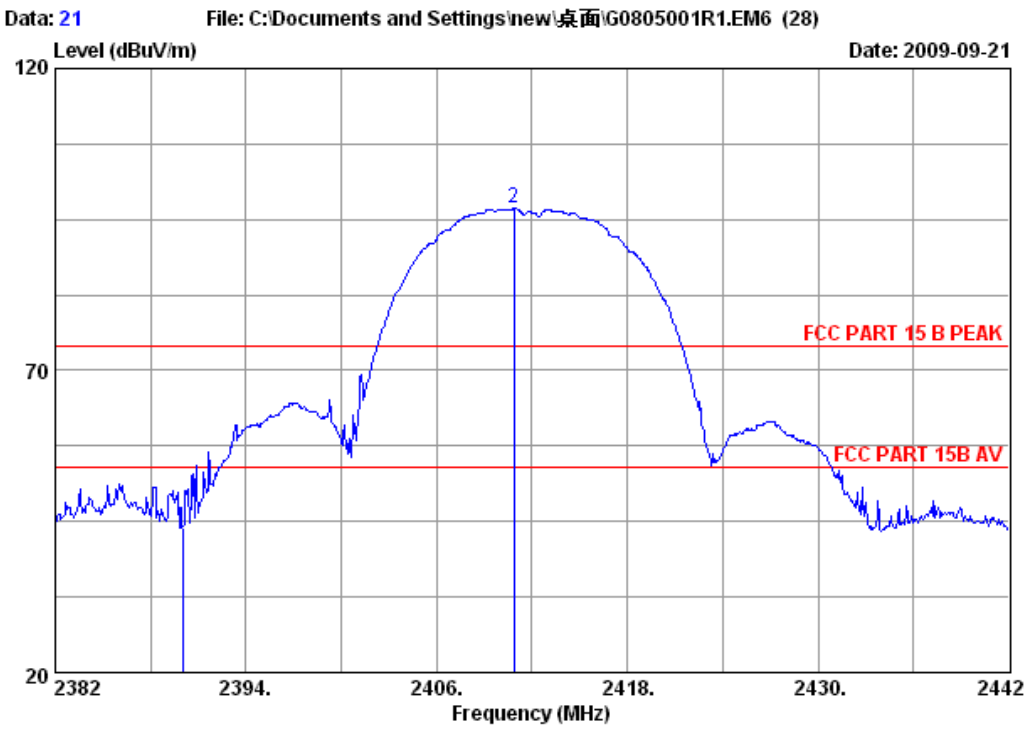
Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4944.00	Vertical	27.44	54.00	26.56
7385.00	Vertical	37.32	54.00	16.68
9848.00	Vertical	40.85	54.00	13.15
12310.00	Vertical	44.00	54.00	10.00

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.6. Spurious Emission Measurement Results in restricted band (FCC Part 15, 15.205)

4.6.1. IEEE 802.11b

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

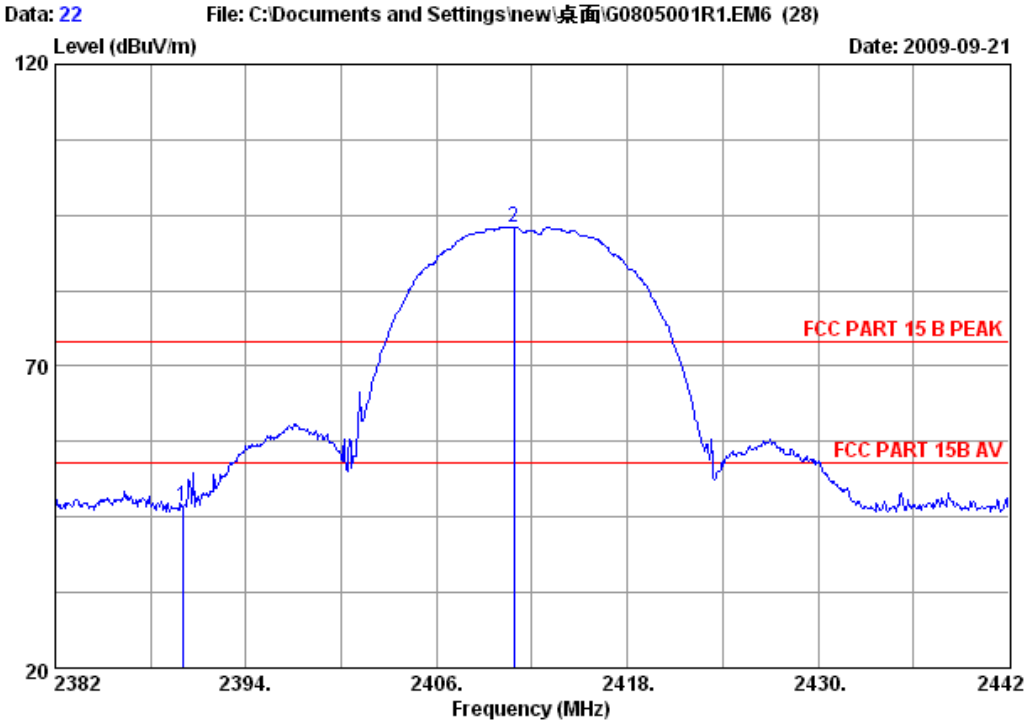



```
Site NO.       : 10M Semi-Anechoic Chamber      Data NO.   : 21
Dis. / Ant.    : 3m   HORN3115-62593            Ant. pol.  : HORIZONTAL
Limit          : FCC PART 15 B PEAK
Env. / Ins.    : 25.2*C 54% /ESCI               Engineer   : lion
EUT            : TI-Nspire Navigator TM  Wireless Cradle
M/N            : TI-Nspire Navigator TM  Wireless Cradle
Power Rating   : Li-Ion 3.7V/1750mAh
Test Mode      : TX 802.11b
Memo           : CH1
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	39.78	44.01	74.00	29.99	Peak
2	2410.86	28.64	10.62	92.31	96.85	74.00	-22.85	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

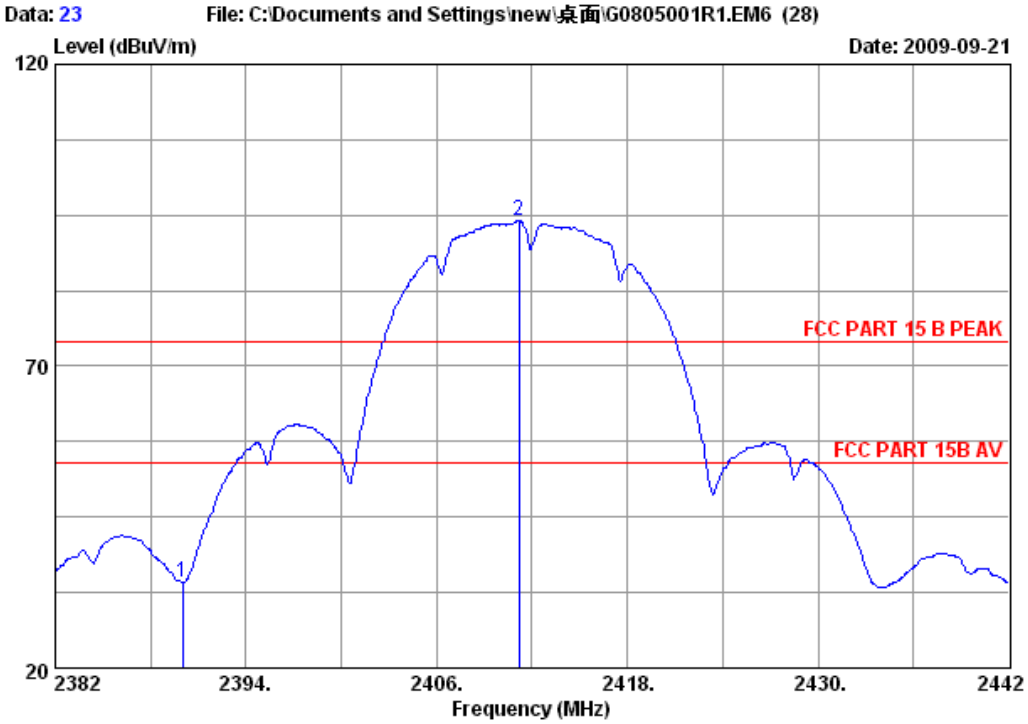


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 22
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11b
Memo : CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	42.40	46.63	74.00	27.37	Peak
2	2410.86	28.64	10.62	88.50	93.04	74.00	-19.04	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

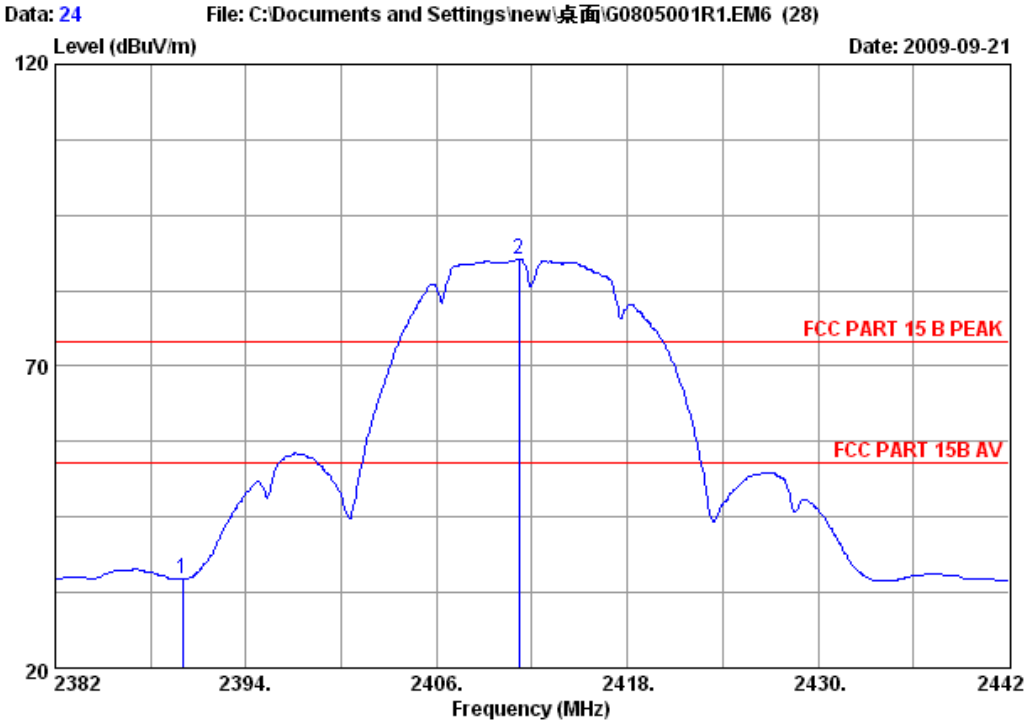


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 23
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11b
Memo : CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	29.95	34.18	54.00	19.82	Average
2	2411.16	28.64	10.62	89.52	94.06	54.00	-40.06	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 Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

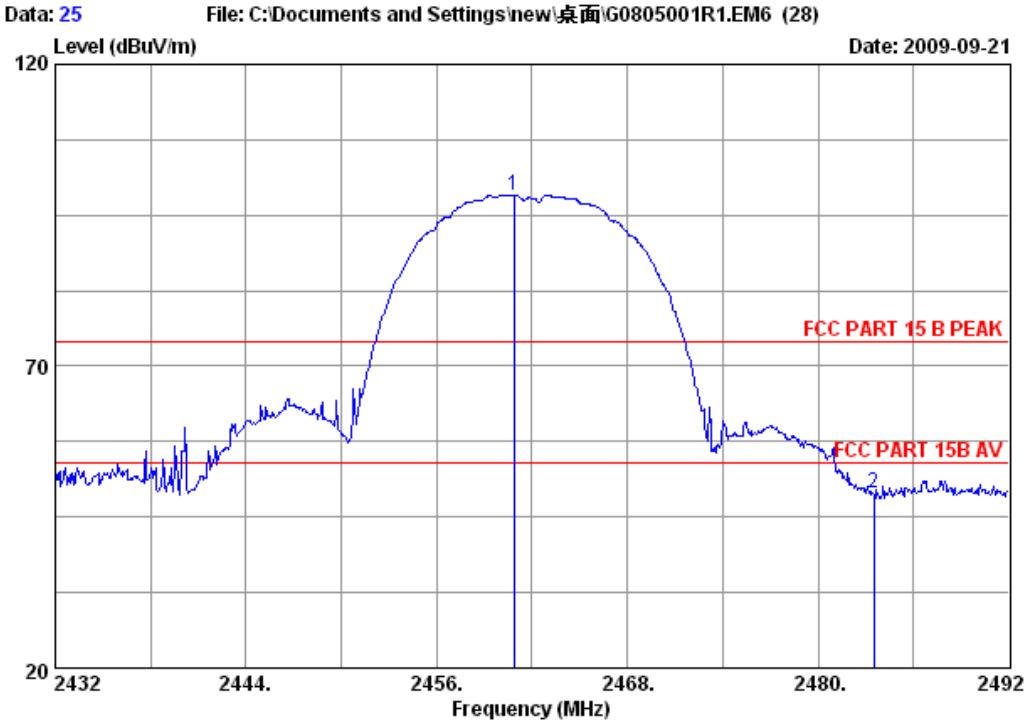


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 24
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11b
Memo : CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	30.50	34.73	54.00	19.27	Average
2	2411.16	28.64	10.62	83.25	87.79	54.00	-33.79	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 Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

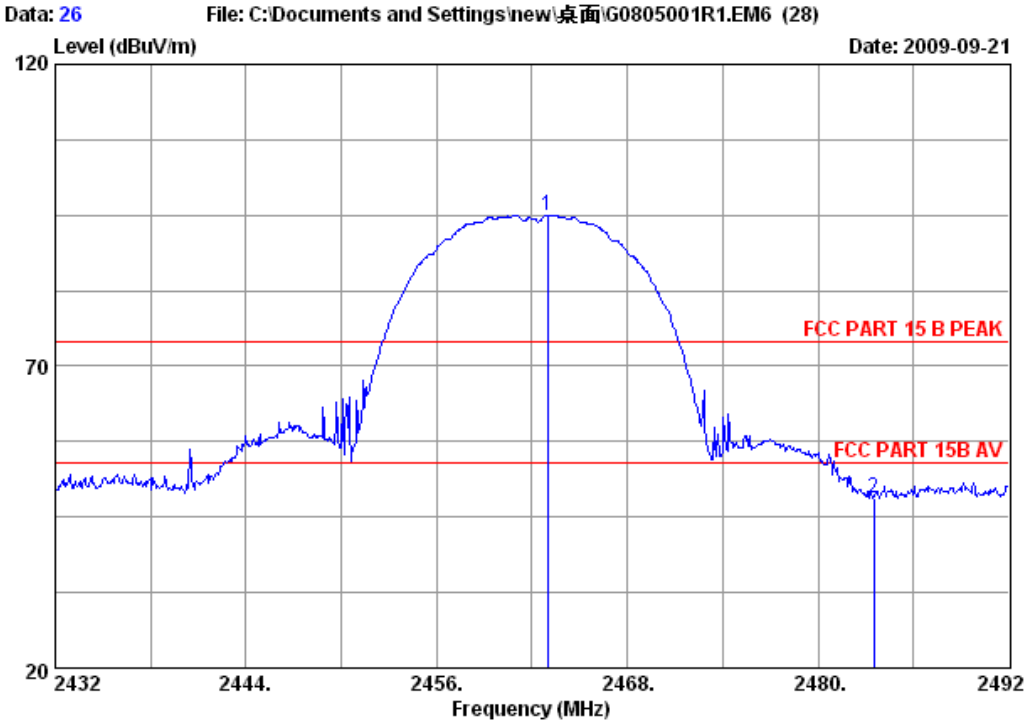


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 25
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11b
Memo : CH11

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.86	28.74	10.30	94.07	98.40	74.00	-24.40	Peak
2	2483.50	28.77	10.30	44.66	49.02	74.00	24.98	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

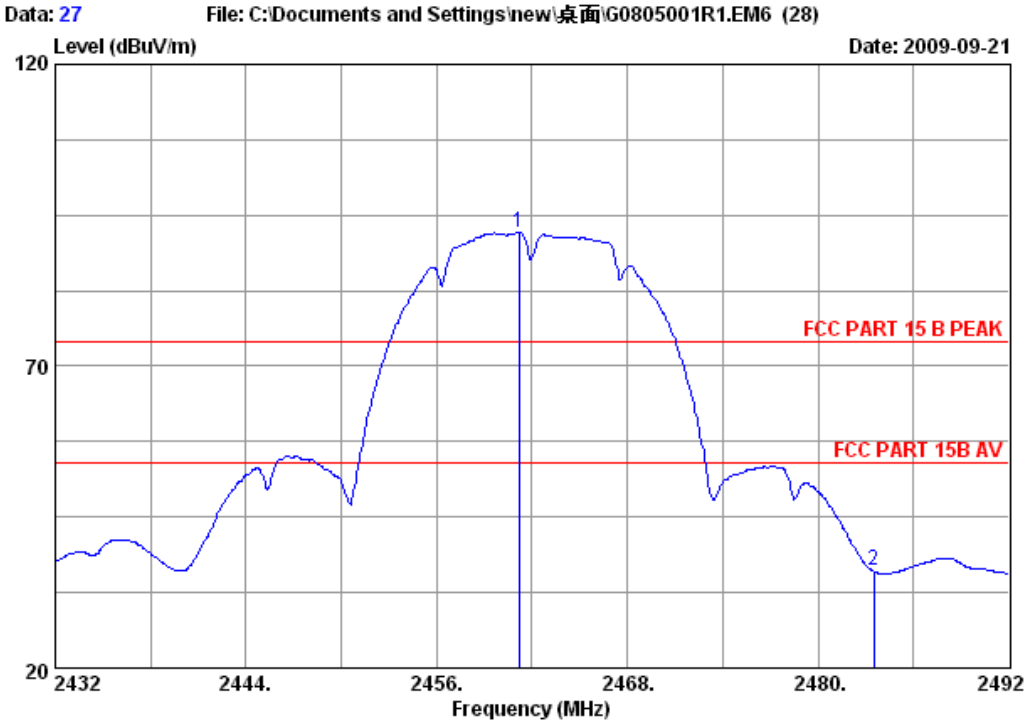


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 26
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11b
Memo : CH11

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.96	28.74	10.30	90.68	95.01	74.00	-21.01	Peak
2	2483.50	28.77	10.30	43.66	48.02	74.00	25.98	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

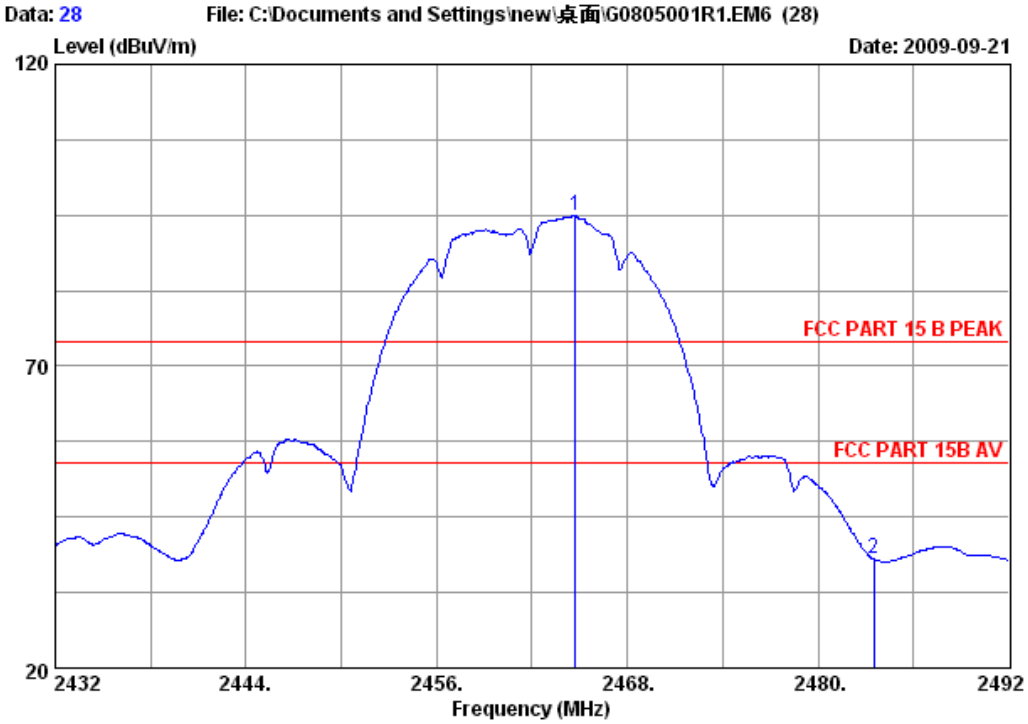


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 27
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11b
Memo : CH11

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.16	28.74	10.30	87.87	92.20	54.00	-38.20	Average
2	2483.50	28.77	10.30	31.66	36.02	54.00	17.98	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 Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993



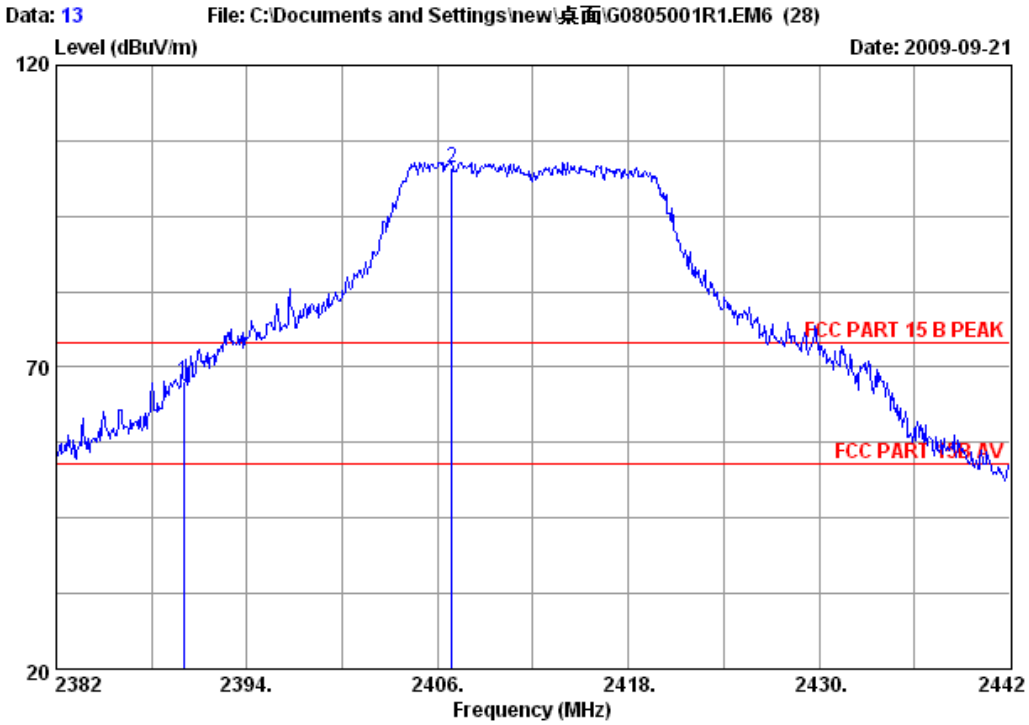
Site NO. : 10M Semi-Anechoic Chamber Data NO. : 28
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11b
Memo : CH11

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.70	28.74	10.30	90.55	94.88	54.00	-40.88	Average
2	2483.50	28.77	10.30	33.72	38.08	54.00	15.92	Average

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

4.6.2. IEEE 802.11g

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

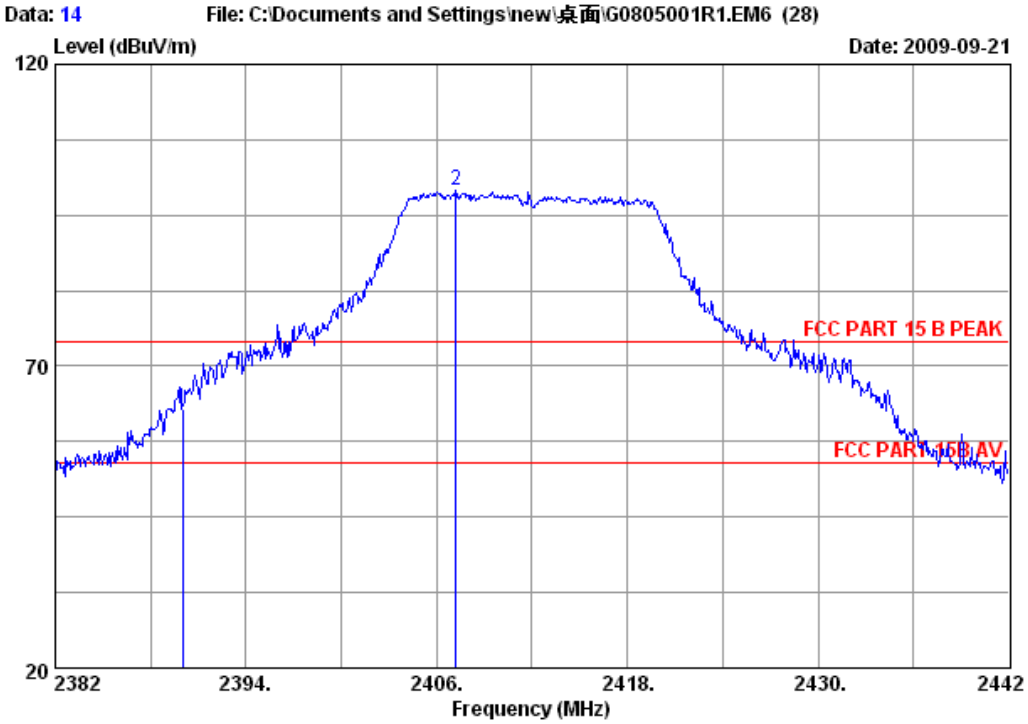


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 13
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11g
Memo : CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	63.27	67.50	74.00	6.50	Peak
2	2406.90	28.64	10.34	98.80	103.06	74.00	-29.06	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

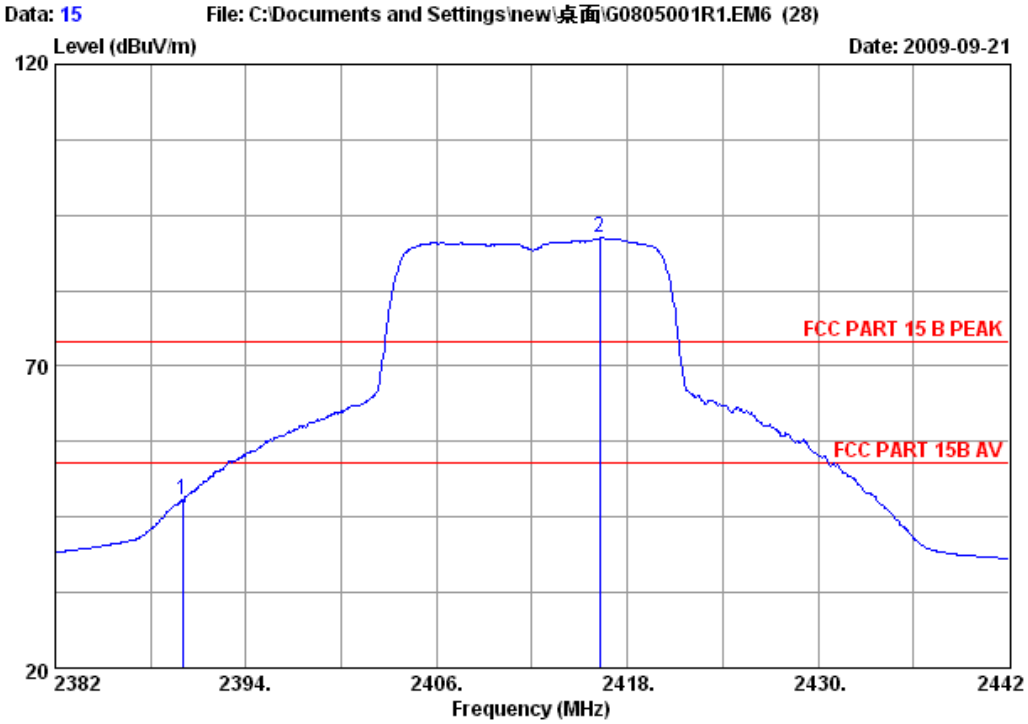


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 14
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11g
Memo : CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	58.59	62.82	74.00	11.18	Peak
2	2407.20	28.64	10.34	94.80	99.06	74.00	-25.06	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

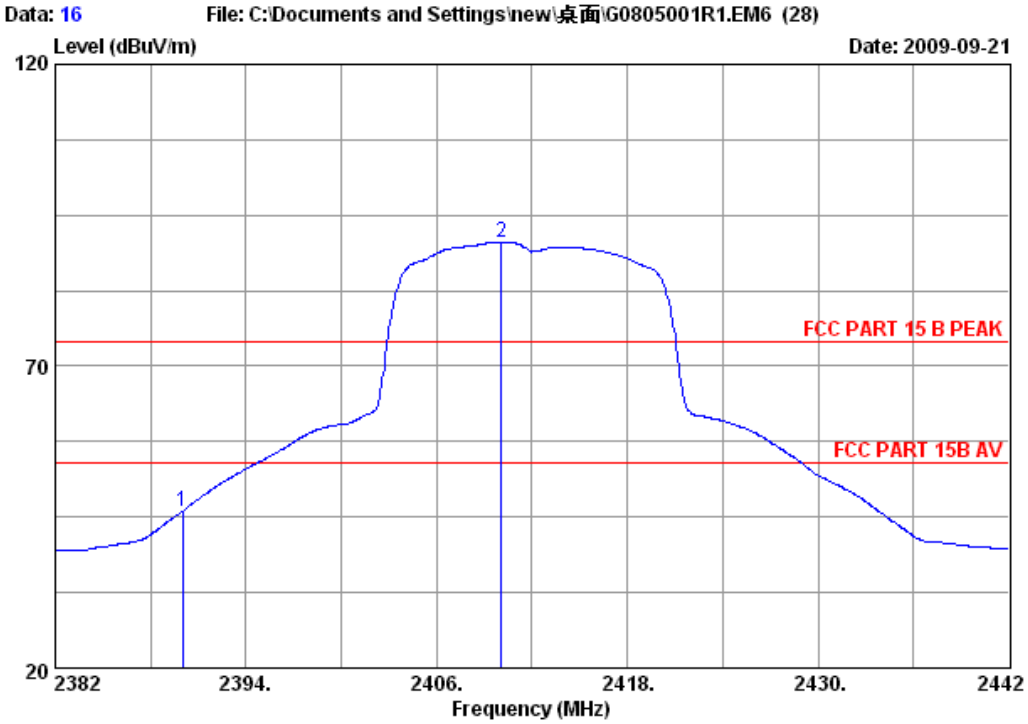


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 15
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11g
Memo : CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	43.49	47.72	54.00	6.28	Average
2	2416.26	28.64	10.62	86.73	91.27	54.00	-37.27	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 Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

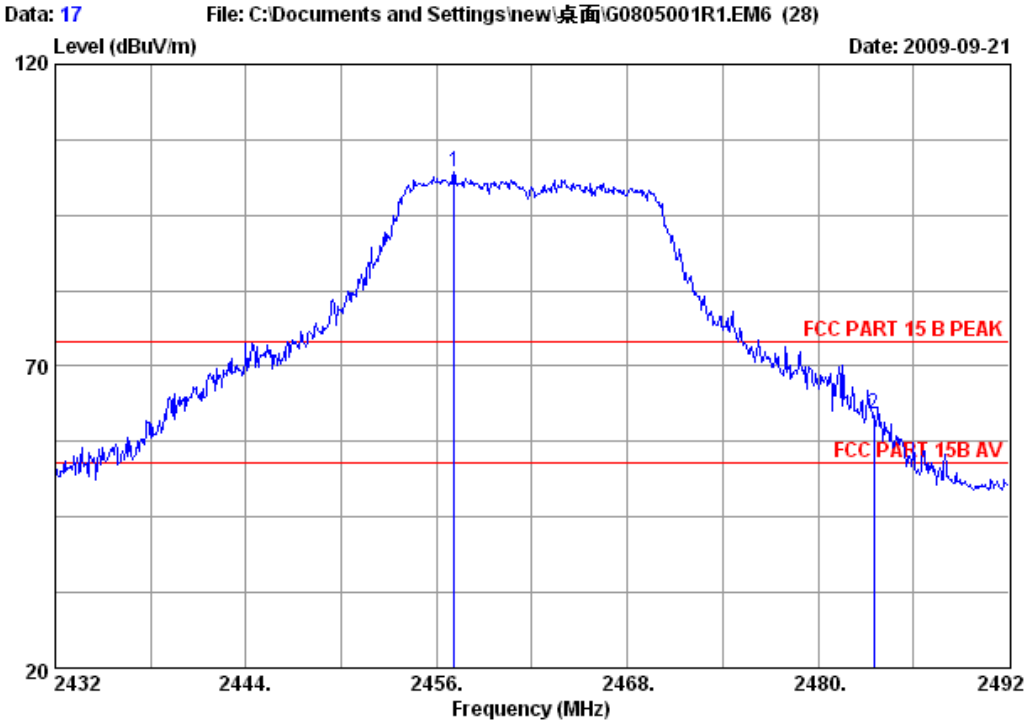


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 16
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11g
Memo : CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.61	10.34	41.71	45.94	54.00	8.06	Average
2	2410.08	28.64	10.62	86.04	90.58	54.00	-36.58	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 Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

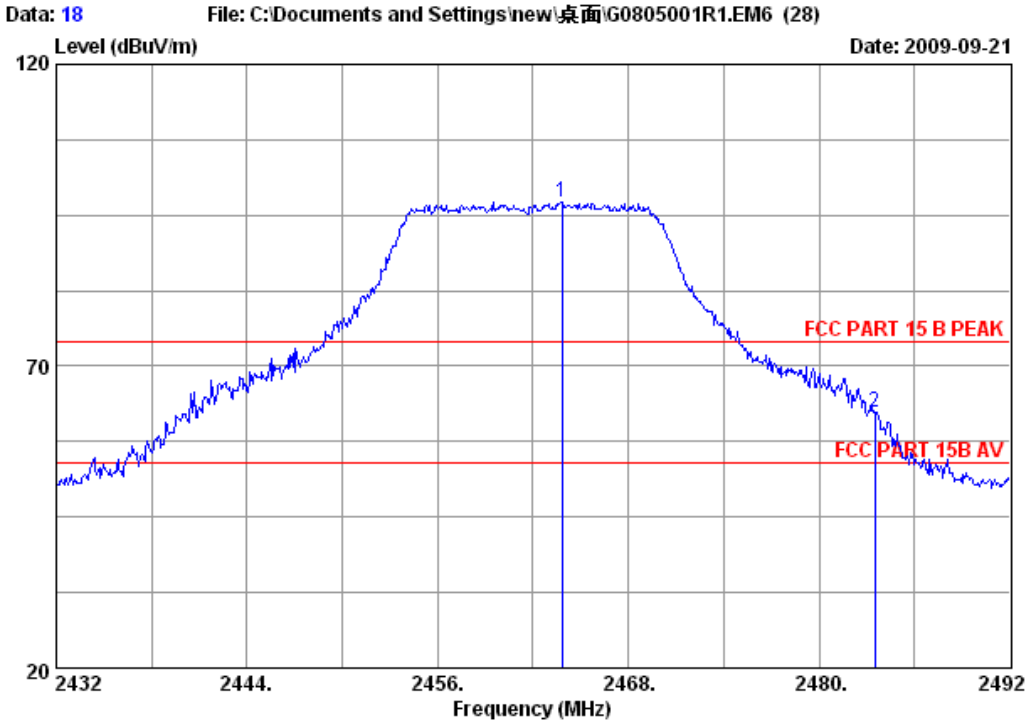


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 17
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11g
Memo : CH11

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.08	28.74	10.30	97.94	102.27	74.00	-28.27	Peak
2	2483.50	28.77	10.30	57.56	61.92	74.00	12.08	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

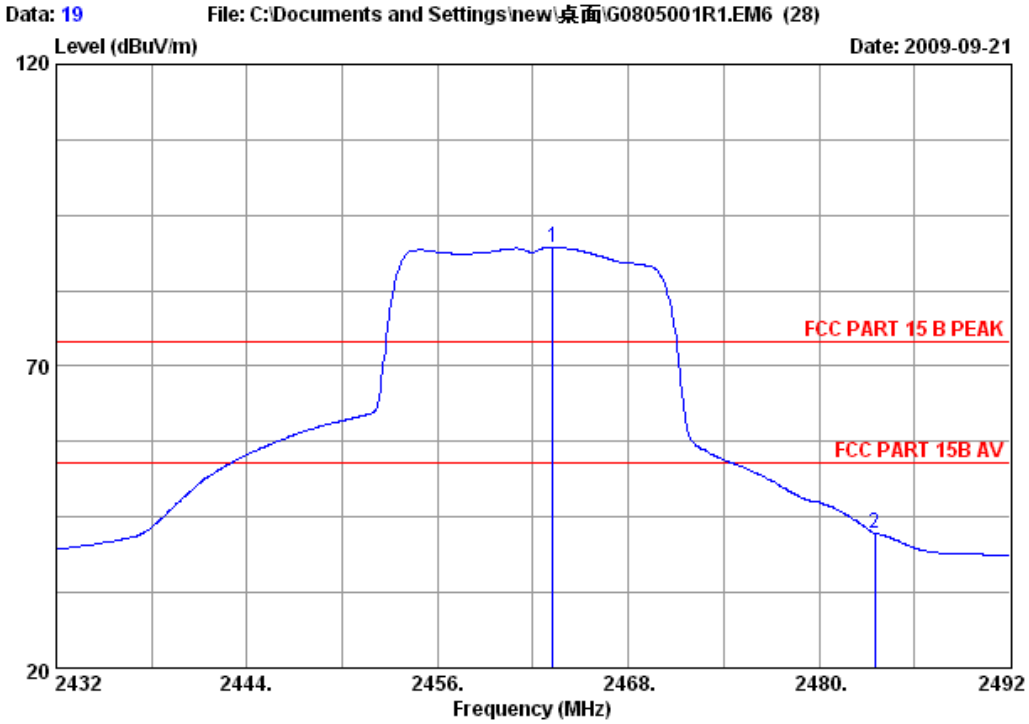


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 18
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11g
Memo : CH11

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.80	28.74	10.30	92.94	97.27	74.00	-23.27	Peak
2	2483.50	28.77	10.30	57.95	62.31	74.00	11.69	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
Economic Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

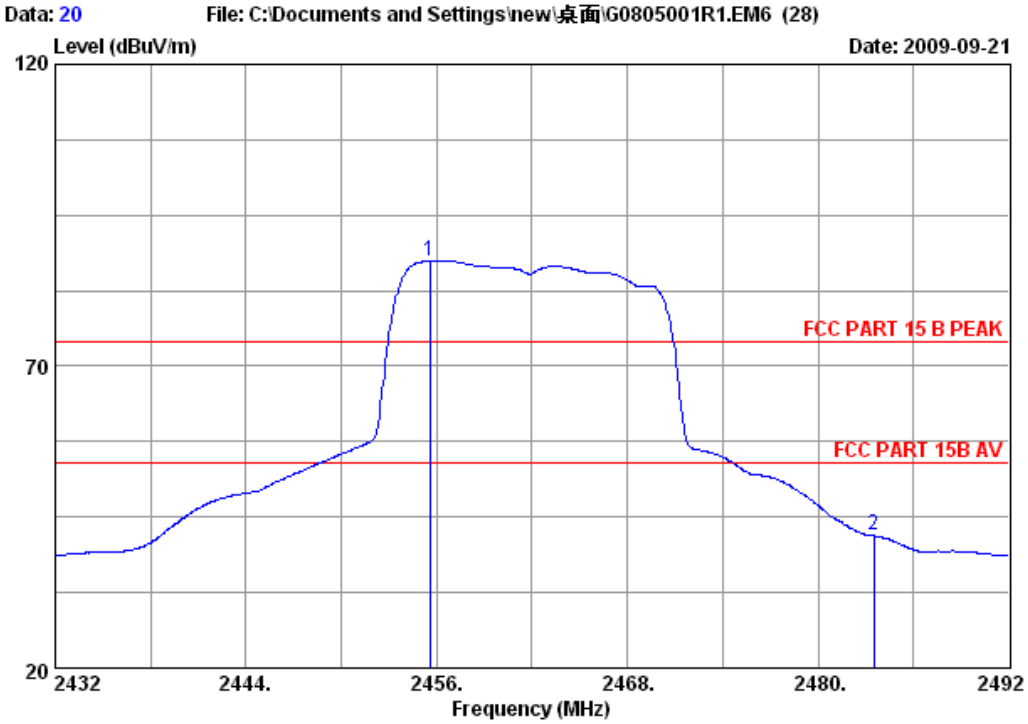


Site NO. : 10M Semi-Anechoic Chamber Data NO. : 19
Dis. / Ant. : 3m HORN3115-62593 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 25.2*C 54% /ESCI Engineer : lion
EUT : TI-Nspire Navigator TM Wireless Cradle
M/N : TI-Nspire Navigator TM Wireless Cradle
Power Rating : Li-Ion 3.7V/1750mAh
Test Mode : TX 802.11g
Memo : CH11

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.26	28.74	10.30	85.42	89.75	54.00	-35.75	Average
2	2483.50	28.77	10.30	38.04	42.40	54.00	11.60	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 Ddvelopment Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993




```
Site NO.      : 10M Semi-Anechoic Chamber      Data NO.   : 20
Dis. / Ant.   : 3m   HORN3115-62593            Ant. pol.  : VERTICAL
Limit         : FCC PART 15 B PEAK
Env. / Ins.   : 25.2*C 54% /ESCI               Engineer   : lion
EUT           : TI-Nspire Navigator TM  Wireless Cradle
M/N           : TI-Nspire Navigator TM  Wireless Cradle
Power Rating  : Li-Ion 3.7V/1750mAh
Test Mode     : TX 802.11g
Memo          : CH11
              :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.58	28.74	10.30	83.18	87.51	54.00	-33.51	Average
2	2483.50	28.77	10.30	37.54	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.

5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2009.01.10	2010.01.09
2.	Power Meter	Agilent	N1911A	MY45100361	2009.01.07	2010.01.06
3.	Power Divider	Anritsu	K240C	020346	2009.01.08	2010.01.07
4.	Power Sensor	Agilent	N1921A	MY45240521	2009.01.07	2010.01.06

5.2. Block Diagram of Test Setup

The same as section 3.2.1.

5.3. 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.

5.4. Test Results

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

Test Date: Sep. 15, 2009 Test Mode: 802.11b

Test Condition			Peak Power (dBm)		
Temperature (*C)	Voltage (V)	Data Rate (mbps)	CH 1 2412 MHz	CH 6 2437 MHz	CH 11 2462 MHz
25	3.7	1	PK=16.0	PK=15.2	PK=15.8

Test Date: Sep. 15, 2009 Test Mode: 802.11g

Test Condition			Peak Power (dBm)		
Temperature (*C)	Voltage (V)	Data Rate (mbps)	CH 1 2412 MHz	CH 6 2437 MHz	CH 11 2462 MHz
25	3.7	6	PK=19.8	PK=19.9	PK=19.8

6. DEVIATION TO TEST SPECIFICATIONS

【NONE】