## APPLICATION FOR CERTIFICATION

On Behalf of

Proware Technologies Co., Ltd

Wireless Lite-N USB Adapter

Model Number: PW-DN427

FCC ID: WWMDN427V2

Prepared for: Proware Technologies Co., Ltd

4/F, Building 7, Section 2, Honghualing Industrial Park,

Xili, Nanshan, District, Shenzhen, P.R.

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F10190

Date of Test : Jul.14~Jul.23, 2010

Date of Report : Jul.27, 2010

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# TEST REPORT CERTIFICATION

Applicant : Proware Technologies Co., Ltd

Manufacturer : Proware Technologies Co., Ltd

EUT Description : Wireless Lite-N USB Adapter

FCC ID : WWMDN427V2

(A)MODEL NO. : PW-DN427

(B)SERIAL NO. : N/A

(C)POWER SUPPLY: DC 5V From Notebook

(D)TEST VOLTAGE: DC 5V From Notebook Input AC 230V/50Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test:	Jul.14~Jul.23, 2010
Prepared by:	Annie Wu/ Senior Assistant
Reviewer:	James Kr
	Jamy Yu / Supervisor
	●信奉科技(深圳)有限公司 Audix Technology (Shenzhen) Co., Ltd.

Signature:

Approved & Authorized Signer:

Ken Lu / Manager

EMC部門報告拿用金

Stamp only for EMC Dept. Report

# 1. SUMMARY OF STANDARDS AND RESULTS

# 1.1. Description of Standards and Results

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

EMISSION					
Description of Test Item	Standard	Results			
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10: 2009	PASS			
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.10: 2009	PASS			
Band Edge Compliance Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS			
Conducted spurious emissions test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS			
6dB Bandwidth Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS			
Output Power Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS			
Power Spectral Density Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS			
Antenna requirement	FCC Part 15: 15.203	PASS			

## 2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : Wireless Lite-N USB Adapter

Model Number : PW-DN427

FCC ID : WWMDN427V2

Operation Frequency : IEEE 802.11b/g, 802.11n HT20: 2412MHz---2462MHz

IEEE802.11n HT40: 2422MHz---2452MHz

Channel Number : IEEE 802.11b/g, 802.11n HT20: 11 Channels

IEEE 802.11n HT40: 7 Channels

Modulation Technology: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20,HT40: OFDM (64QAM, 16QAM,

QPSK,BPSK)

Antenna and Gain : Integrated PCB antenna, 2.65dBi PK gain.

Applicant : Proware Technologies Co., Ltd

4/F, Building 7, Section 2, Honghualing Industrial Park,

Xili, Nanshan, District, Shenzhen, P.R.

Manufacturer : Proware Technologies Co., Ltd

4/F, Building 7, Section 2, Honghualing Industrial Park,

Xili, Nanshan, District, Shenzhen, P.R.

Date of Test : Jul.14~Jul.23, 2010

Date of Receipt : Jul.12, 2010

Sample Type : Prototype production

## 2.2. Test information

The test software "RT3x7x.exe" was used to control EUT work in Continuous TX(100% duty cycle) mode, and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information					
Mode	data rate	Channel	Frequency		
	(Mpbs)(see Note)		(MHz)		
IEEE 802.11b	11	Low:CH1	2412		
	11	Middle: CH6	2437		
	11	High: CH11	2462		
IEEE 802.11g	54	Low:CH1	2412		
	54	Middle: CH6	2437		
	54	High: CH11	2462		
IEEE 802.11n HT20	65	Low:CH1	2412		
	65	Middle: CH6	2437		
	65	High: CH11	2462		
IEEE 802.11n HT40	130	Low:CH1	2422		
	130	Middle: CH4	2437		
	130	High: CH7	2452		

Note1: According to exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note2: This device can connected to USB port of computer by 1.5m long USB cable or directly connected to USB port of computer, according exploratory test, when test with USB cable will have worse emissions, so the final emissions tests were performed with USB cable.

# 2.3. Data rate VS output power

Mode	Data rate (Mbps)	СН	AV Power (dBm)	PK Power (dBm)
	1	CH1	16.60	22.42
1.11.	2	CH1	16.58	22.45
11b	5.5	CH1	16.55	22.47
	11	CH1	16.52	22.48
	6	CH1	12.79	21.01
	9	CH1	12.74	21.03
	12	CH1	12.76	21.05
11.	18	CH1	12.80	21.00
11g	24	CH1	12.74	20.98
	36	CH1	12.78	21.00
	48	CH1	12.75	20.95
	54	CH1	12.71	21.06
	6.5	CH1	12.85	20.79
	13	CH1	12.83	20.85
	19.5	CH1	12.81	20.83
11n	26	CH1	12.79	20.85
HT20	39	CH1	12.69	20.87
	52	CH1	12.68	20.81
	58.5	CH1	12.70	20.86
	65	CH1	12.67	20.89
	13	CH1	12.31	20.42
	26	CH1	12.34	20.46
Ī	39	CH1	12.28	20.48
11n	52	CH1	12.25	20.37
HT40	78	CH1	12.27	20.24
	104	CH1	12.29	20.46
	117	CH1	12.32	20.39
Ī	130	CH1	12.27	20.49

		1		I
Mode	Data rate (Mbps)	СН	AV Power (dBm)	PK Power (dBm)
	1	CH6	16.80	22.78
111	2	CH6	16.79	22.80
11b	5.5	CH6	16.76	22.82
	11	CH6	16.75	22.87
	6	CH6	13.07	21.29
	9	CH6	13.05	21.28
	12	CH6	13.09	21.30
11~	18	CH6	13.10	21.26
11g	24	CH6	13.06	21.25
	36	CH6	13.08	21.32
	48	CH6	13.06	21.30
	54	CH6	13.05	21.34
	6.5	CH6	12.94	21.13
	13	CH6	12.96	21.17
	19.5	CH6	12.98	21.15
11n	26	CH6	12.93	21.18
HT20	39	CH6	12.95	21.12
	52	CH6	12.97	21.10
	58.5	CH6	12.92	21.14
	65	CH6	12.92	21.18
	13	CH4	12.47	20.38
	26	CH4	12.49	20.35
	39	CH4	12.50	20.37
11n	52	CH4	12.46	20.42
HT40	78	CH4	12.43	20.40
	104	CH4	12.42	20.39
	117	CH4	12.52	20.41
	130	CH4	12.42	20.43

Mode	Data rate (Mbps)	СН	AV Power (dBm)	PK Power (dBm)
	1	CH11	16.86	22.89
111.	2	CH11	16.82	22.84
11b	5.5	CH11	16.85	22.90
	11	CH11	16.80	22.92
	6	CH11	12.99	21.24
	9	CH11	13.01	21.35
	12	CH11	13.02	21.31
11~	18	CH11	13.04	21.29
11g	24	CH11	13.00	21.30
	36	CH11	13.06	21.27
	48	CH11	13.02	21.25
	54	CH11	12.98	21.36
	6.5	CH11	13.02	21.19
	13	CH11	13.05	21.18
	19.5	CH11	13.06	21.16
11n	26	CH11	13.09	21.13
HT20	39	CH11	12.99	21.19
	52	CH11	12.97	21.20
	58.5	CH11	13.00	21.14
	65	CH11	12.98	21.22
	13	CH7	12.27	20.42
	26	CH7	12.32	20.45
	39	CH7	12.34	20.39
11n	52	CH7	12.36	20.36
HT40	78	CH7	12.30	20.28
	104	CH7	12.26	20.41
	117	CH7	12.38	20.38
	130	CH7	12.25	20.47

# 2.4. Tested Supporting System Details

## 2.4.1.Notebook

M/N : PP09S S/N : N/A Manufacturer : DELL

Power Adaptor : Manufacturer: DELL,

M/N: LA65NS1-00

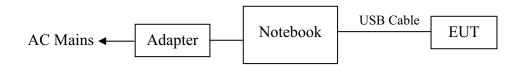
Cable: Unshielded, Detachabled, 4.0m

(Bond one ferrite core)

## 2.4.2. Cables

LAN Cable : Unshielded, Detachable 10m

# 2.5. Block Diagram of Test Setup



(EUT: Wireless Lite-N USB Adapter)

## 2.6. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen

Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Mar.31, 2009 File on Federal

Communication Commission Registration Number: 90454

3m & 10m Anechoic Chamber : Dec. 30, 2009 File on Federal

Communication Commission Registration Number: 794232

EMC Lab. : Accredited by DATech, German

Registration Number: DAT-P-091/99-01

Feb. 02, 2009

Accredited by NVLAP, USA NVLAP Code: 200372-0

Apr. 01, 2010

# 2.7. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty		
Uncertainty for Conduction emission test	3.64 dB (9kHz to 150kHz		
in No. 1 Conduction	3.22 dB(150kHz to 30MHz)		
Uncertainty for Radiation Emission test	4.20 dB (Polarize: V)		
in 3m chamber	4.66 dB (Polarize: H)		
Uncertainty for Radiated Spurious	2.70 dB(Bilog antenna 30M~1000MHz)		
Emission test in RF chamber	2.27 dB(Horn antenna 1000M~12750MHz)		
Uncertainty for Conduction Spurious emission test	2.12 dB		
Uncertainty for Output power test	0.97 dB		
Uncertainty for Power density test	2.21 dB		
Uncertainty for Frequency range test	1x10 <sup>-9</sup>		
Uncertainty for Bandwidth test	1x10 <sup>-9</sup>		
Uncertainty for DC power test	0.038 %		
Uncertainty for test site temperature and	0.3°C		
humidity	2%		

## 3. POWER LINE CONDUCTED EMISSION TEST

## 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.18, 09	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Mar.30, 10	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 10	1 Year
4.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 10	1Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 10	1 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 10	1 Year

#### 3.2. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	dB(µV)	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

## 3.3. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.3.1. Wireless Lite-N USB Adapter (EUT)

Model Number : PW-DN427

Serial Number : N/A

3.3.2.Support Equipment : As Tested Supporting System Detail, in Section 2.3.

## 3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 4.2.
- 3.4.2. Turned on the power of all equipment.
- 3.4.3. Notebook run test software to control EUT work in Tx mode.

#### 3.5. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Adapter connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.6.,

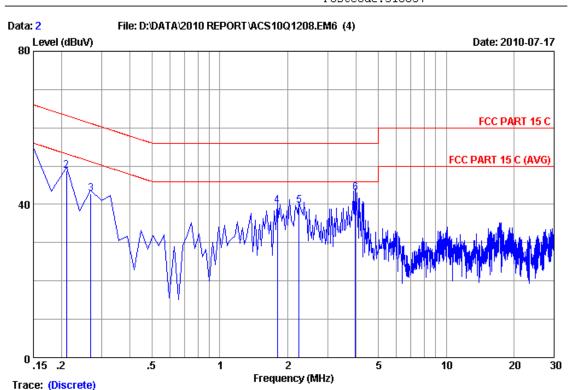
## 3.6. Power Line Conducted Emission Test Results

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



NO.6 Ke Feng Road, Block 52, Shenzhen Science&Industry Park Nantou, Shenzhen, Guang dong, China.

Tel:+86-755-26639495 Fax:+86-755-26632877 Postcode:518057



Site no : Audix No.1 Conduction Data no :2

Dis./Ant. :\*\* 2010 ESH2-Z5 LINE

Limit :FCC PART 15 C

Env./Ins. :Temp:23'C Humi:54% Engineer :Sunny-lu

EUT :Wireless Lite-N USB Adapter Power Rating :DC 5V From PC input AC 120V/60Hz

Test Mode :Tx Mode Memo :PW-DN427

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.23	9.88	43.73	53.84	66.00	12.16	QP
2	0.20970	0.22	9.88	38.63	48.73	63.22	14.49	QP
3	0.26940	0.22	9.88	32.67	42.77	61.14	18.37	QP
4	1.792	0.25	9.90	29.47	39.62	56.00	16.38	QP
5	2.240	0.25	9.91	29.57	39.73	56.00	16.27	QP
6	3.971	0.27	9.94	32.81	43.02	56.00	12.98	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Cable loss+pulse limiter)+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.

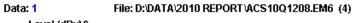


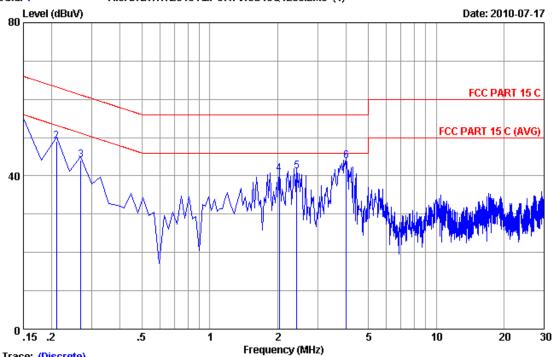
NO.6 Ke Feng Road, Block 52, Shenzhen Science&Industry Park Nantou, Shenzhen, Guang dong, China.

Tel:+86-755-26639495 Fax:+86-755-26632877 Postcode:518057

Data no

:1





Trace: (Discrete)

Site no :Audix No.1 Conduction
Dis./Ant. :\*\* 2010 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 C

Env./Ins. :Temp:23'C Humi:54% Engineer :Sunny-lu

EUT :Wireless Lite-N USB Adapter Power Rating :DC 5V From PC input AC 120V/60Hz

Test Mode :Tx Mode Memo :PW-DN427

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	9.88	43.98	54.07	66.00	11.93	QP
2	0.20970	0.21	9.88	39.04	49.13	63.22	14.09	QP
3	0.26940	0.21	9.88	33.95	44.04	61.14	17.10	QP
4	2.031	0.26	9.91	30.37	40.54	56.00	15.46	QP
5	2.419	0.26	9.92	31.01	41.19	56.00	14.81	QP
6	4.001	0.28	9.94	33.60	43.82	56.00	12.18	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Cable loss+pulse limiter)+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 TEST

# 4.1. Test Equipment

Frequency rang: 30~1000MHz

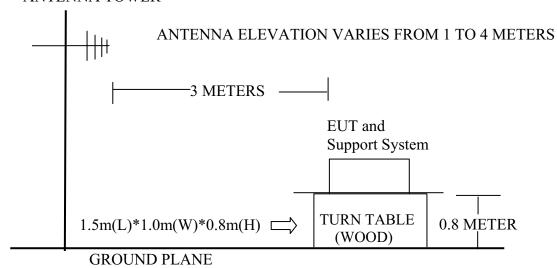
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 09	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 10	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 10	1 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	Nov.19, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060088	Nov.25, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 10	1 Year
7	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08, 10	1 Year

## 4.1.1.In Anechoic Chamber

## ANTENNA TOWER



#### 4.2. Radiated Emission Limit

#### 4.2.1.15.209 limits

FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT
MHz	Meters	μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV	/)/m (Peak)
		54.0 dB(μV	V)/m (Average)

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

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.2.2.15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

## 4.3. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. Wireless Lite-N USB Adapter (EUT)

Model Number : PW-DN427

Serial Number : N/A

4.3.2. Support Equipment : As Tested Supporting System Detail, in Section 2.3.

## 4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 2.4
- 4.4.2. Turned on the power of all equipment.
- 4.4.3. Notebook run test software to control EUT work in test mode.

#### 4.5. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10<sup>th</sup> harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

### 4.6. Radiated Emission Test Results

PASS.

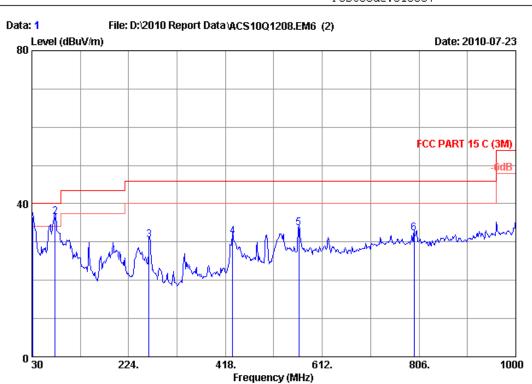
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

## Frequency: 30MHz~1GHz



No.6 Ke Feng Road, Block 52, ShenZhen Science & Industry Park Noutou, ShenZhen, GuangDong, China Tel:+86-755-26639495-7

Fax:+86-755-26632877 Postcode:518057



Data no. : 1

Site no. : 3m Chamber
Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL

: FCC PART 15 C (3M) Limit

Env. / Ins. : 24\*C/56% Engineer : Sunny-lu

: Wireless Lite-N USB Adapter Power rating : DC 5V From PC Input AC 120V/60Hz

Test Mode : Tx Mode M/N : PW-DN427

	No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
-	1	30.970	19.44	0.62	16.50	36.56	40.00	3.44	OP	
	2	76.560	7.47	0.97	28.15	36.59	40.00	3.41	QP	
	3	264.740	13.80	2.26	14.45	30.51	46.00	15.49	QP	
	4	432.550	17.42	3.12	10.94	31.48	46.00	14.52	QP	
	5	565.440	19.61	3.92	10.09	33.62	46.00	12.38	QP	
	6	796.300	22.04	4.88	5.34	32.26	46.00	13.74	QP	

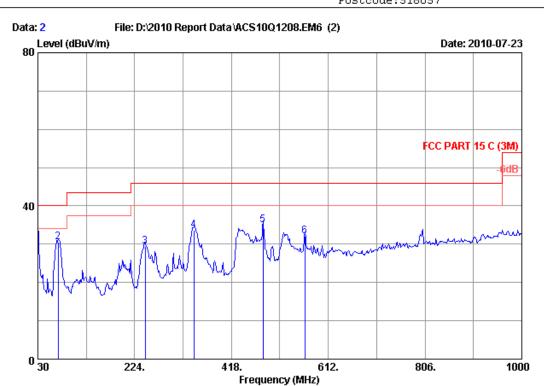
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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



No.6 Ke Feng Road, Block 52, ShenZhen Science & Industry Park Noutou, ShenZhen, GuangDong, China Tel:+86-755-26639495-7

Fax:+86-755-26632877 Postcode:518057



Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL Limit : FCC PART 15 C (3M)

Env. / Ins. : 24\*C/56% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power rating : DC 5V From PC Input AC 120V/60Hz

Test Mode : Tx Mode M/N : PW-DN427

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	30.000	20.00	0.61	13.91	34.52	40.00	5.48	QP	
2	70.740	6.74	0.93	22.95	30.62	40.00	9.38	QP	
3	245.340	12.20	2.13	15.11	29.44	46.00	16.56	QP	
4	342.340	14.86	2.66	16.09	33.61	46.00	12.39	QP	
5	481.050	18.11	3.43	13.45	34.99	46.00	11.01	QP	
6	565.440	19.61	3.92	8.58	32.11	46.00	13.89	QP	

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

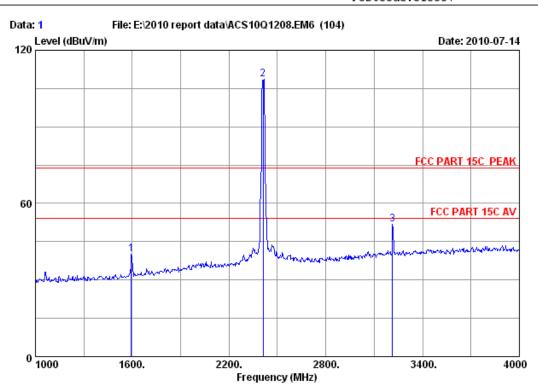
2. The emission levels that are 20dB below the official limit are not reported.

## Frequency: 1GHz~18GHz



No.6 Ke Feng Road, Block 52, ShenZhen Science & Industry Park Noutou, ShenZhen, GuangDong, China Tel:+86-755-26639495-7 Fax:+86-755-26632877

Postcode:518057



Site no. : RF Chamber Data no. : 1
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx

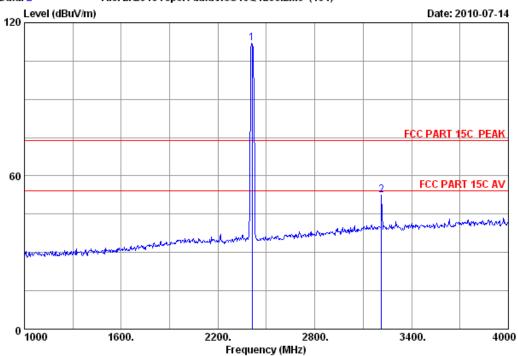
M/N : PW-DN427

	Ant. Cable			Amp. Emission						
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/r	n) (dB)		
1	1594.000	26.96	5.88	36.95	44.23	40.12	74.00	33.88	Peak	
2	2412.000	29.45	7.43	36.62	108.40	108.66	74.00	-34.66	Peak	
3	3214.000	32.54	8.79	36.28	46.61	51.66	74.00	22.34	Peak	

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







Site no. : RF Chamber Data no. : 2

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

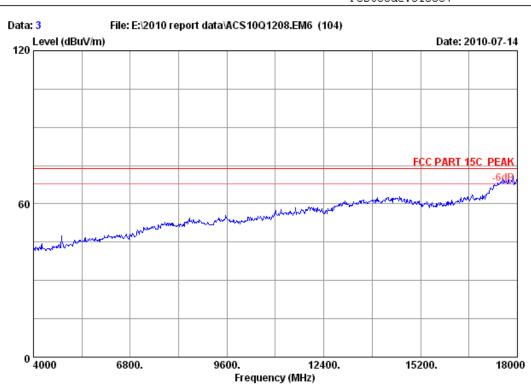
Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	(dB)		
1	2412.000	29.45	7.43	36.62	111.85	112.11	74.00	-38.11	Peak	
2	3214.000	32.54	8.79	36.28	47.47	52.52	74.00	21.48	Peak	

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





Site no. : RF Chamber Data no. : 3

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

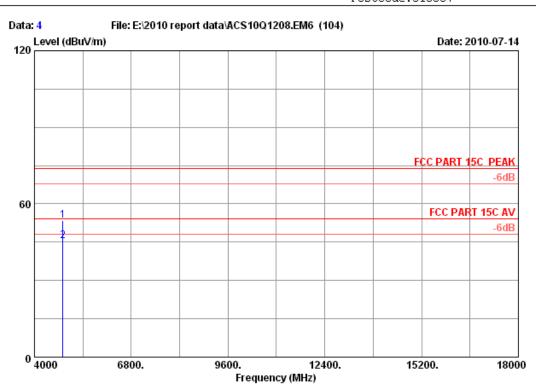
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : PW-DN427





Site no. : RF Chamber Data no. : 4

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

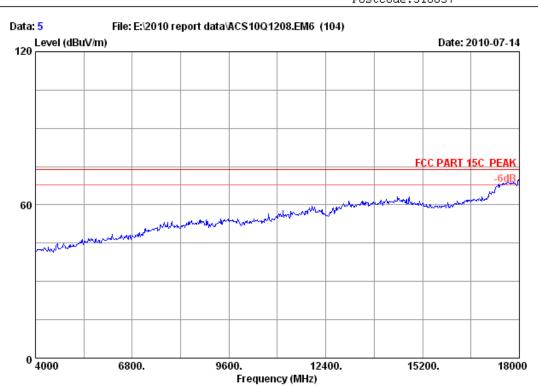
Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : PW-DN427

	Ant. Cable		Amp. Emission						
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	43.55	53.43	74.00	20.57	Peak
2	4824.000	34.32	10.64	35.08	35.48	45.36	54.00	8.64	Average

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





Site no. : RF Chamber Data no. : 5

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

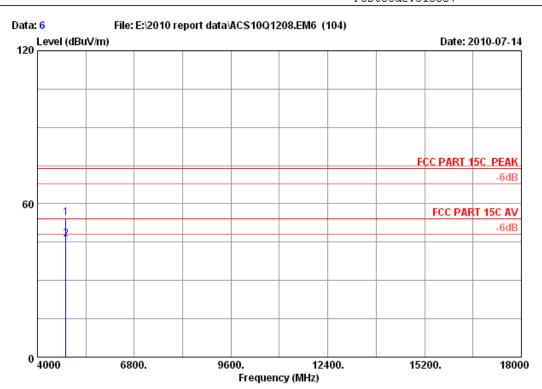
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : PW-DN427





Site no. : RF Chamber Data no. : 6

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

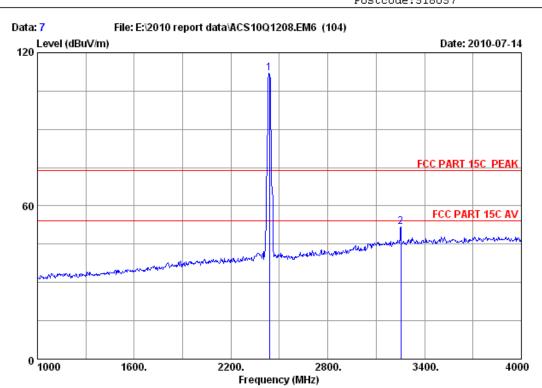
Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : PW-DN427

	Ant. Cable		Cable	Amp. Emis			mission		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	44.70	54.58	74.00	19.42	Peak
2	4824.000	34.32	10.64	35.08	36.13	46.01	54.00	7.99	Average

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





Site no. : RF Chamber Data no. : 7

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

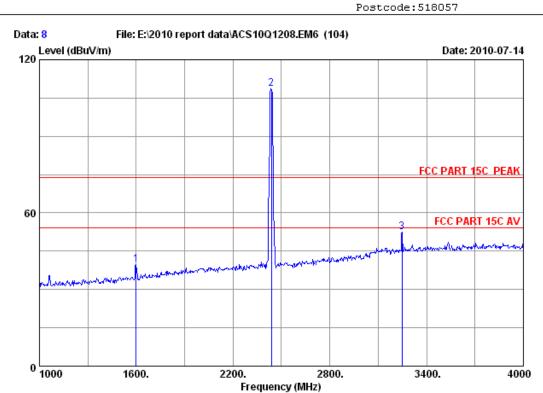
Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : PW-DN427

	Ant. Cable Amp				Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2437.000	29.47	7.46	36.61	111.57	111.89	74.00	-37.89	Peak
2	3253.000	32.67	8.83	36.25	46.44	51.69	74.00	22.31	Peak

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





Site no. : RF Chamber Data no. : 8
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54%

EUT : Wireless Lite-N USB Adapter

Power : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : PW-DN427

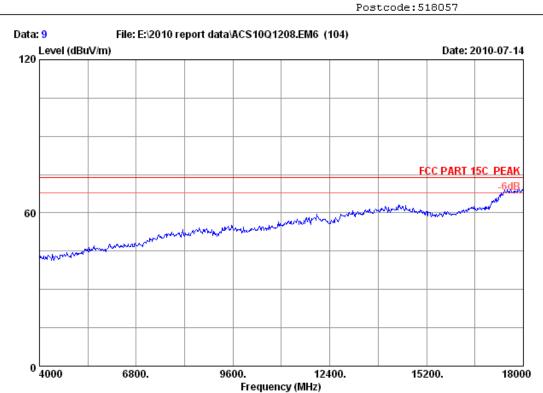
	Ant. Ca			Amp.	Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/n	) (dB)		
1	1600.000	26.96	5.91	36.94	43.85	39.78	74.00	34.22	Peak	
2	2437.000	29.47	7.46	36.61	108.24	108.56	74.00	-34.56	Peak	
3	3247.000	32.63	8.83	36.25	47.24	52.45	74.00	21.55	Peak	

#### Remarks:

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

Engineer : Sunny-lu





Site no. : RF Chamber Data no. : 9

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

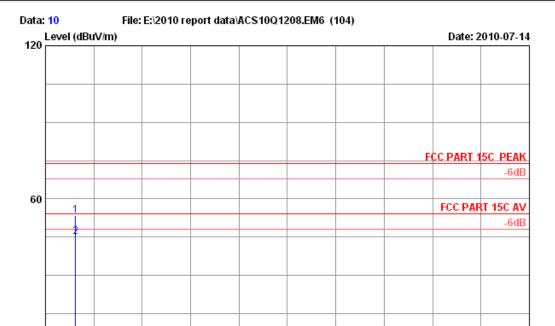
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : PW-DN427





Site no. : RF Chamber Data no. : 10
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Frequency (MHz)

9600.

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : PW-DN427

6800.

	Freq.	Ant. Factor (dB/m)	•	Reading (dBuV)		Limits	_	Remark
1 2	4874.000 4874.000		 	43.25 34.95	53.32 45.02	74.00 54.00	20.68 8.98	Peak Average

#### Remarks:

<sup>0</sup>4000

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

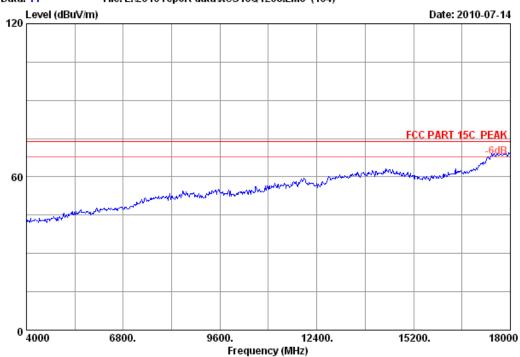
12400.

15200.

18000







Site no. : RF Chamber Data no. : 11

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

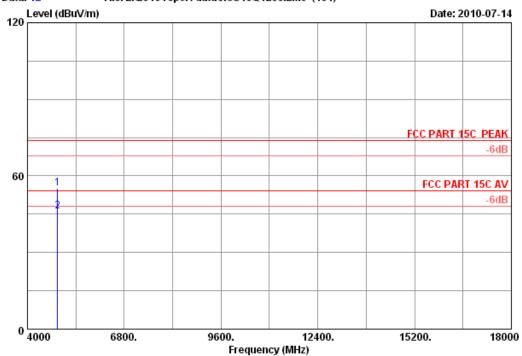
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : PW-DN427







Site no. : RF Chamber Data no. : 12

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

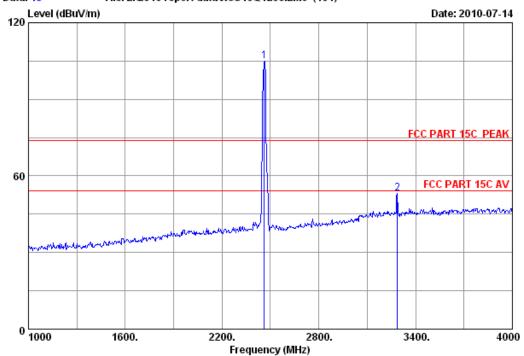
M/N : PW-DN427

	Freq.		•	Reading (dBuV)		Limits		Remark
1 2	4874.000 4874.000	 		44.96 36.07	55.03 46.14	74.00 54.00	18.97 7.86	Peak Average

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







Site no. : RF Chamber Data no. : 13

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

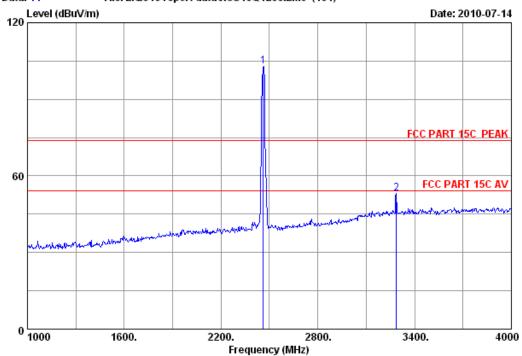
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	2462.000	29.48	7.54	36.61	104.53	104.94	74.00	-30.94	Peak	
2	3286.000	32.72	8.88	36.20	47.63	53.03	74.00	20.97	Peak	

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







Site no. : RF Chamber Data no. : 14
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

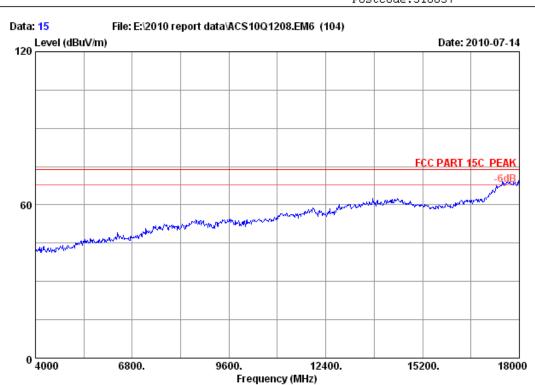
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : PW-DN427

		Ant.	Cable	Amp.		Emission	n			
	-				Reading (dBuV)			_	Remark	
_				(ab)	(GBGV)	(abav/III)		, (ab) 		
1 2	462.000	29.48	7.54	36.61	102.53	102.94	74.00	-28.94	Peak	
2 3	286.000	32.72	8.88	36.20	47.63	53.03	74.00	20.97	Peak	

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





Site no. : RF Chamber Data no. : 15

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

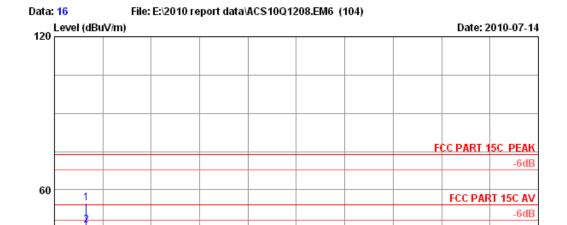
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : PW-DN427





Site no. : RF Chamber Data no. : 16

9600.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Frequency (MHz)

12400.

15200.

18000

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : PW-DN427

6800.

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	10.76	34.98	44.58	54.85	74.00	19.15	Peak
2	4924.000	34.49	10.76	34.98	35.98	46.25	54.00	7.75	Average

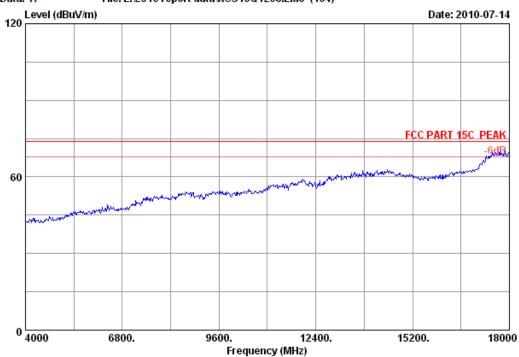
#### Remarks:

<sup>0</sup>4000

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







Site no. : RF Chamber Data no. : 17
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

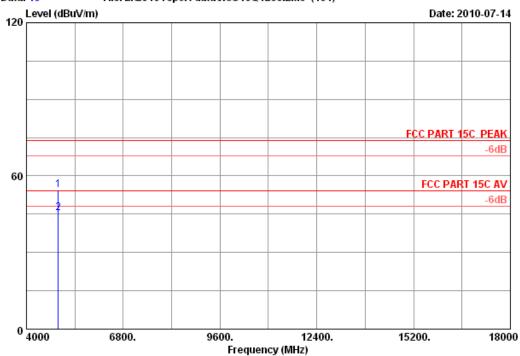
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx







Site no. : RF Chamber Data no. : 18
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

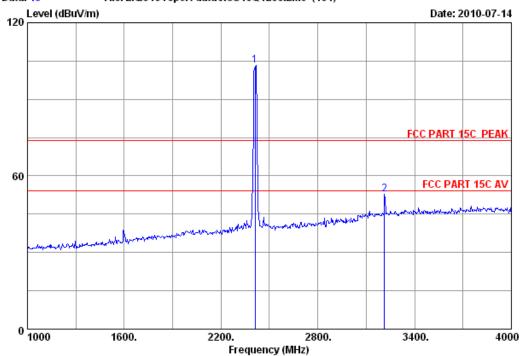
M/N : PW-DN427

	Freq.		-	Reading (dBuV)		Limits	_	Remark
_	4924.000 4924.000	 		44.26 35.19	54.53 45.46		19.47 8.54	Peak Average

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







Site no. : RF Chamber Data no. : 19
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

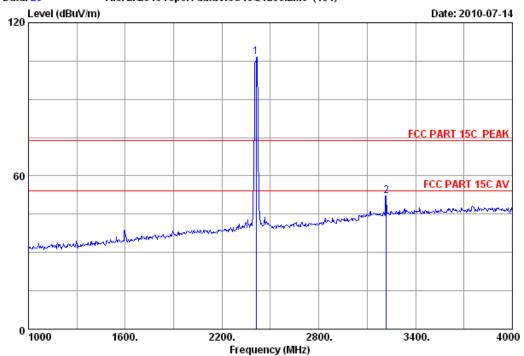
Test mode : IEEE802.11g CH1 2412MHz Tx M/N : PW-DN427

	-		loss	Factor	Reading		Limits	_	Remark	
	(MHz)	(dB/m) 	(dB) 	(dB) 	(dBuV)	(dBuV/m)	dBuV/m() 	i) (dB) 		
1	2412.000	29.45	7.43	36.62	103.00	103.26	74.00	-29.26	Peak	
2	3214.000	32.54	8.79	36.28	47.82	52.87	74.00	21.13	Peak	

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







Site no. : RF Chamber Data no. : 20

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

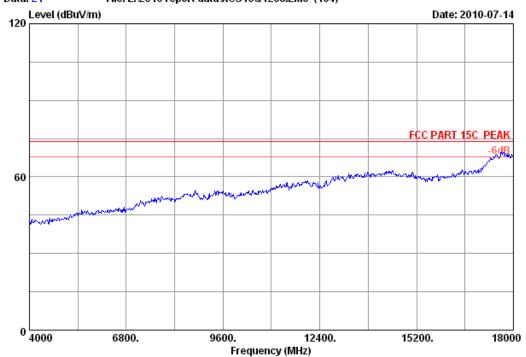
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n			
	-				Reading			_	Remark	
	(MHZ)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB) 		_
1	2412.000	29.45	7.43	36.62	106.34	106.60	74.00	-32.60	Peak	
2	3217.000	32.54	8.79	36.28	47.26	52.31	74.00	21.69	Peak	

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







Site no. : RF Chamber Data no. : 21
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

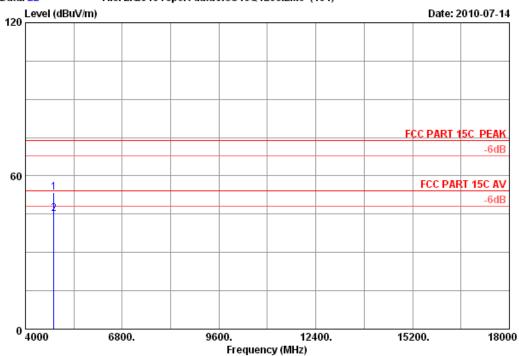
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu EUT : Wireless Lite-N USB Adapter

Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx







Site no. : RF Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

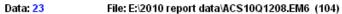
Test mode : IEEE802.11g CH1 2412MHz Tx

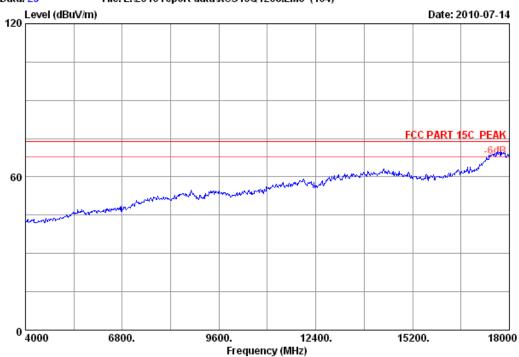
M/N : PW-DN427

	Freq.		-	Reading (dBuV)		Limits	_	Remark
1 2	4824.000 4824.000	 		43.69 35.25	53.57 45.13	74.00 54.00	20.43 8.87	Peak Average

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







Site no. : RF Chamber Data no. : 23

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

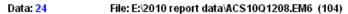
Limit : FCC PART 15C PEAK

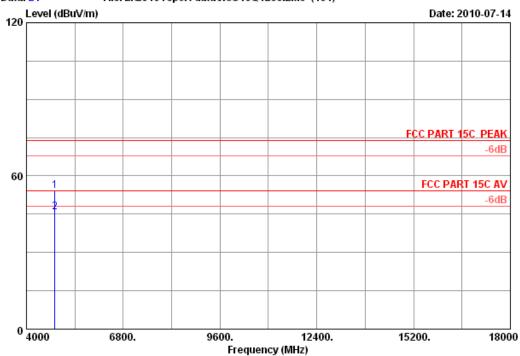
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx







Site no. : RF Chamber Data no. : 24

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

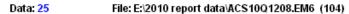
Test mode : IEEE802.11g CH1 2412MHz Tx

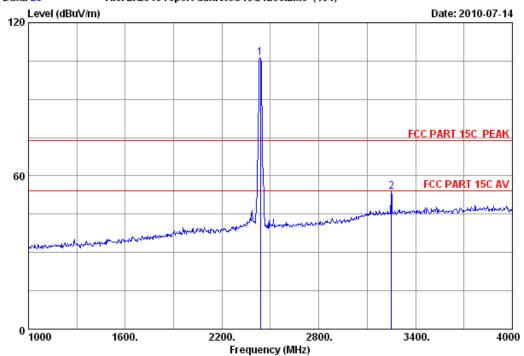
M/N : PW-DN427

	Freq.	Ant. Factor (dB/m)	•	Reading (dBuV)		Limits		Remark
_	4824.000 4824.000		 	44.27 35.99	54.15 45.87	74.00 54.00	19.85 8.13	Peak Average

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







Site no. : RF Chamber Data no. : 25

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

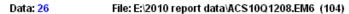
Test mode : IEEE802.11g CH6 2437MHz Tx

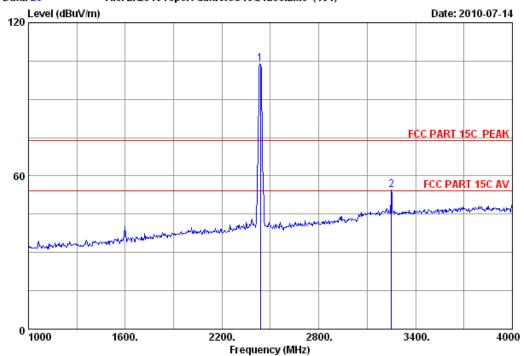
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n			
	-				Reading			_	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	2437.000	29.47	7.46	36.61	105.89	106.21	74.00	-32.21	Peak	
2	3250.000	32.63	8.83	36.25	48.73	53.94	74.00	20.06	Peak	

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







Site no. : RF Chamber Data no. : 26
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx

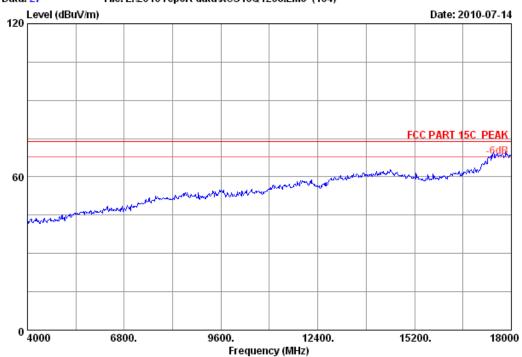
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	(dB)		
1	2437.000	29.47	7.46	36.61	103.65	103.97	74.00	-29.97	Peak	
2	3250.000	32.63	8.83	36.25	49.20	54.41	74.00	19.59	Peak	

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







Site no. : RF Chamber Data no. : 27
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

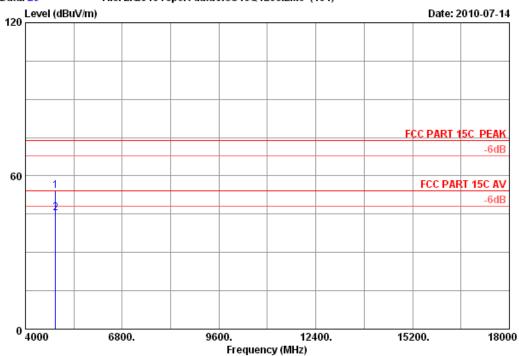
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx







Site no. : RF Chamber Data no. : 28
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

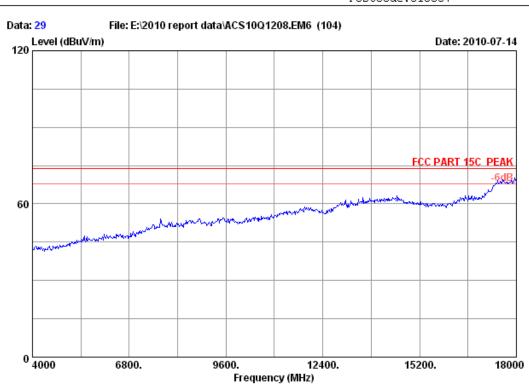
Test mode : IEEE802.11g CH6 2437MHz Tx

M/N : PW-DN427

	Freq.		•	Reading (dBuV)		Limits	_	Remark
1 2	4874.000 4874.000	 		43.96 35.27	54.03 45.34	74.00 54.00	19.97 8.66	Peak Average

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





Site no. : RF Chamber Data no. : 29

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

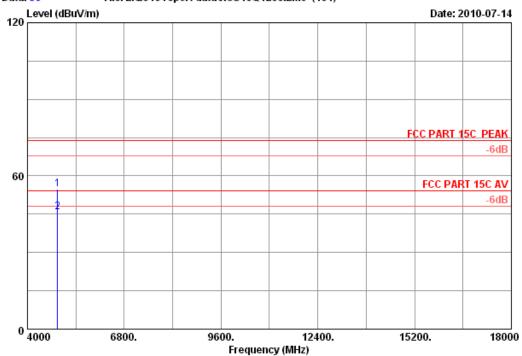
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx







Site no. : RF Chamber Data no. : 30

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

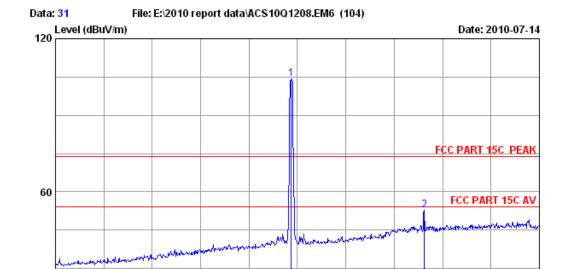
Test mode : IEEE802.11g CH6 2437MHz Tx

M/N : PW-DN427

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	•	Reading (dBuV)		Limits	_	Remark
1 2	4874.000 4874.000				44.69 35.84	54.76 45.91	74.00 54.00	19.24 8.09	Peak Average

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





Site no. : RF Chamber Data no. : 31

2200.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Frequency (MHz)

2800.

3400.

4000

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : PW-DN427

1600.

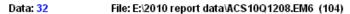
		Ant.	Cable	Amp.		Emissio:	n			
	-				Reading			_	Remark	
	(MHZ)	(dB/m) 	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB) 		
1	2462.000	29.48	7.54	36.61	103.92	104.33	74.00	-30.33	Peak	
2	3286.000	32.72	8.88	36.20	47.40	52.80	74.00	21.20	Peak	

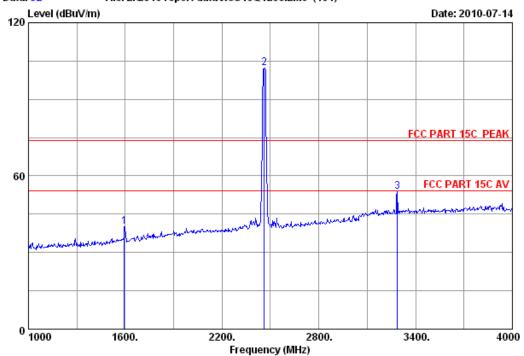
# Remarks:

0 1000

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







Site no. : RF Chamber Data no. : 32
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

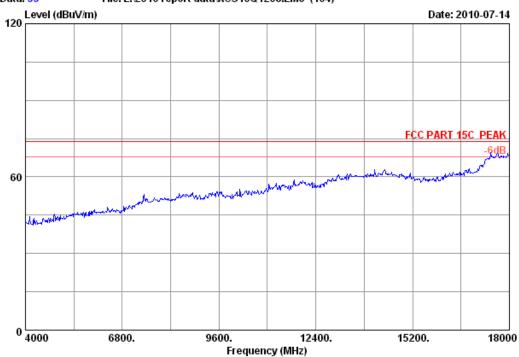
M/N : PW-DN427

	Freq.	Factor			Reading (dBuV)		Limits	_	Remark	
2	1594.000 2462.000 3286.000	29.48	7.54	36.61		39.95 102.33 53.80	74.00	34.05 -28.33 20.20	Peak Peak Peak	

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







Site no. : RF Chamber Data no. : 33

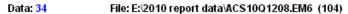
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

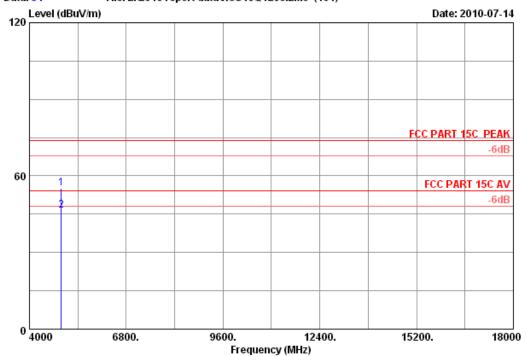
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx







Site no. : RF Chamber Data no. : 34

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

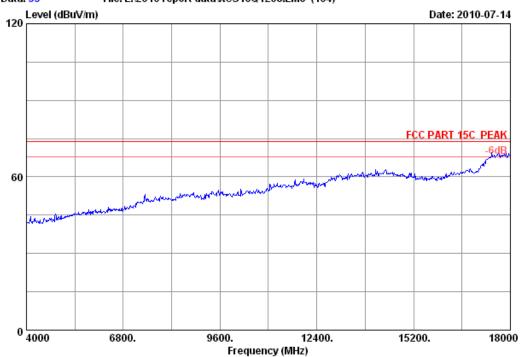
M/N : PW-DN427

	•	Cable loss (dB)	Factor	Reading (dBuV)		Limits	_	Remark
_	4924.000 4924.000	 		44.96 36.14	55.23 46.41	74.00 54.00	18.77 7.59	Peak Average

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







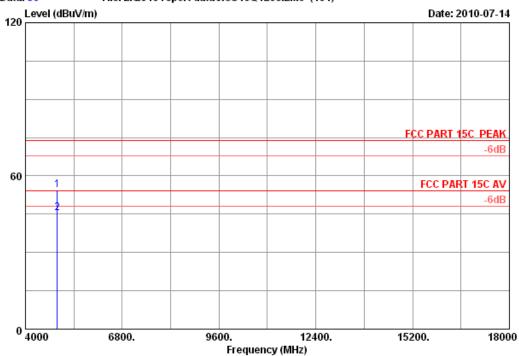
Site no. : RF Chamber Data no. : 35
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23\*C/54%

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx







Site no. : RF Chamber Data no. : 36
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

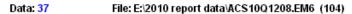
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

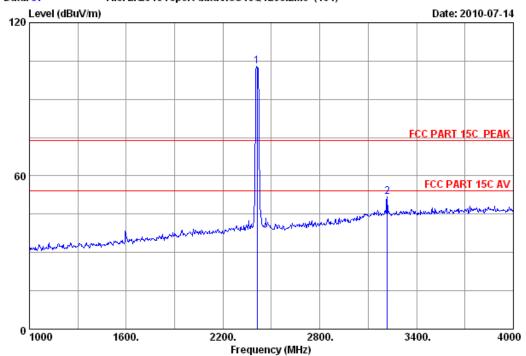
M/N : PW-DN427

	-		Factor	Reading (dBuV)		Limits	_	Remark
_	4924.000 4924.000	 		44.26 35.27	54.53 45.54	74.00 54.00	19.47 8.46	Peak Average

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







EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

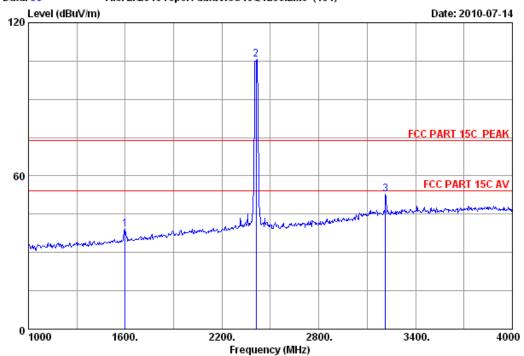
M/N : PW-DN427

	Ant. Cable A								
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2412.000	29.45	7.43	36.62	102.75	103.01	74.00	-29.01	Peak
2	3217.000	32.54	8.79	36.28	46.64	51.69	74.00	22.31	Peak

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







Site no. : RF Chamber Data no. : 38 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter Power : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

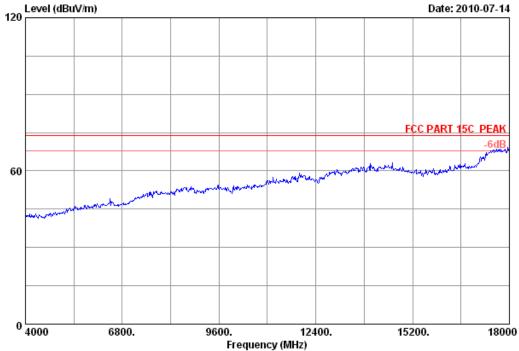
M/N : PW-DN427

	-				Reading (dBuV)		Limits	_	Remark
2 2	412.000	26.96 29.45 32.54	7.43	36.62	105.29	39.14 105.55 52.91	74.00 74.00 74.00	34.86 -31.55 21.09	Peak Peak Peak Peak

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







Site no. : RF Chamber Data no. : 39 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

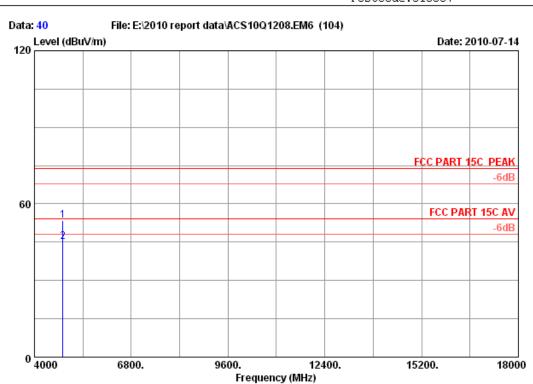
: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter Power : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

: PW-DN427 M/N





EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

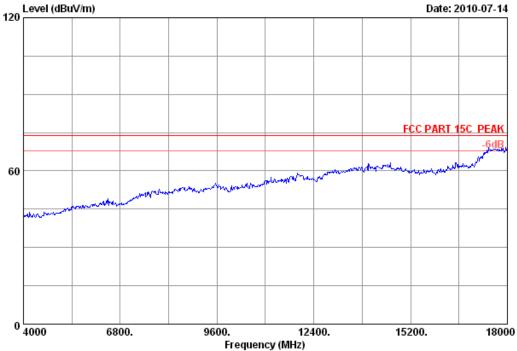
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	43.69	53.57	74.00	20.43	Peak
2	4824.000	34.32	10.64	35.08	35.25	45.13	54.00	8.87	Average

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







Site no. : RF Chamber Data no. : 41

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

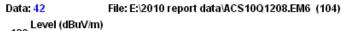
: FCC PART 15C PEAK

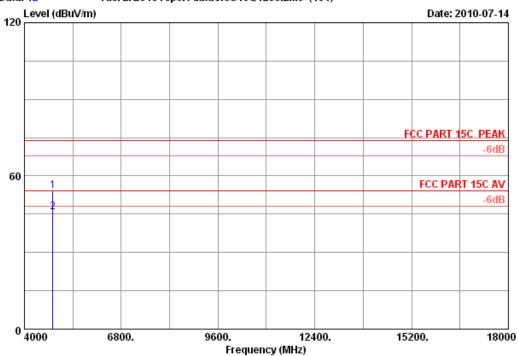
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter Power : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

: PW-DN427 M/N







Site no. : RF Chamber Data no. : 42

Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115(0911)

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

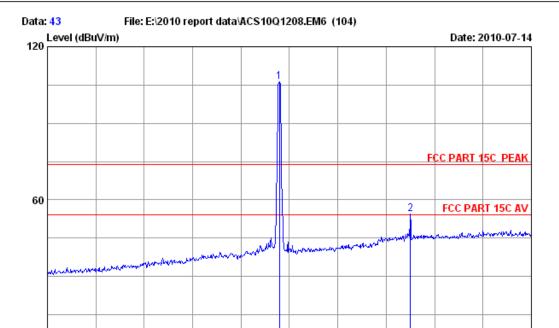
EUT : Wireless Lite-N USB Adapter : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

: PW-DN427 M/N

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	44.13	54.01	74.00	19.99	Peak
2	4824.000	34.32	10.64	35.08	35.99	45.87	54.00	8.13	Average

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





Site no. : RF Chamber Data no. : 43

2200.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Frequency (MHz)

2800.

3400.

4000

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx

M/N : PW-DN427

1600.

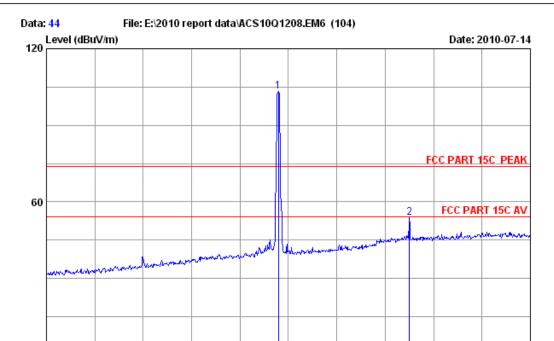
		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2437.000	29.47	7.46	36.61	106.06	106.38	74.00	-32.38	Peak
2	3250.000	32.63	8.83	36.25	49.39	54.60	74.00	19.40	Peak

#### Remarks

0 1000

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





Site no. : RF Chamber Data no. : 44

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Frequency (MHz)

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

2200.

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx

M/N : PW-DN427

1600.

		Ant.	Cable	Amp.		Emissio	n			
	-				Reading (dBuV)			_	Remark	
1	2437.000	29.47	7.46	36.61	103.06	103.38	74.00	-29.38	Peak	
2	3250.000	32.63	8.83	36.25	48.59	53.80	74.00	20.20	Peak	

# Remarks:

0 1000

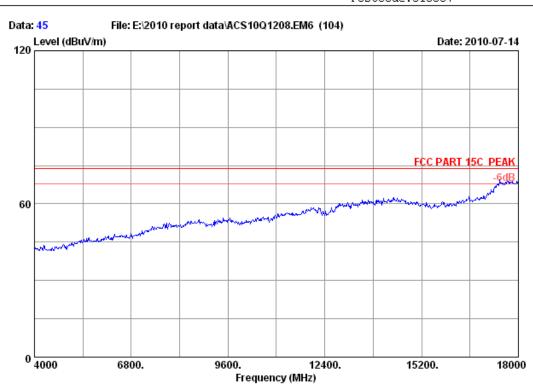
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

2800.

3400.

4000





Site no. : RF Chamber Data no. : 45

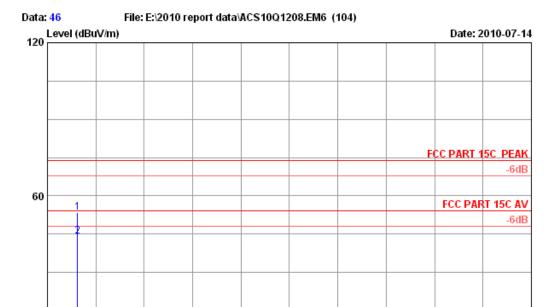
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx





Site no. : RF Chamber Data no. : 46
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Frequency (MHz)

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu EUT : Wireless Lite-N USB Adapter

9600.

FOT: Wireless Lite-N USB Adapter

Power: DC 5V From PC Input AC 120V/60Hz

Test mode: IEEE802.11n HT20 CH6 2437MHz Tx

M/N : PW-DN427

6800.

	•	Cable loss (dB)	Factor	Reading (dBuV)		Limits	_	Remark
_	4874.000 4874.000	 		43.29 34.18	53.36 44.25	74.00 54.00	20.64 9.75	Peak Average

# Remarks:

<sup>0</sup>4000

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

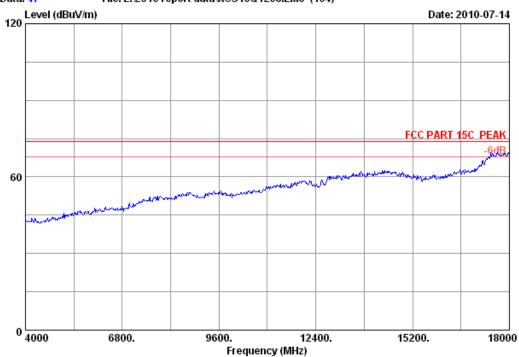
12400.

15200.

18000







Site no. : RF Chamber Data no. : 47

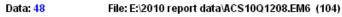
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

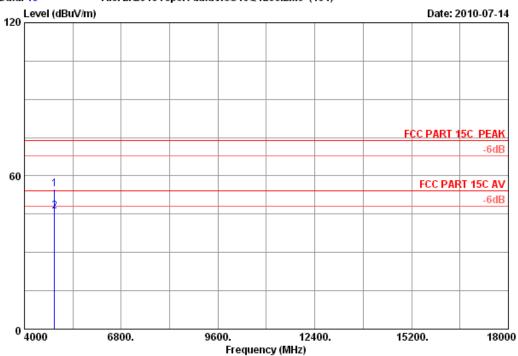
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx







Site no. : RF Chamber Data no. : 48

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

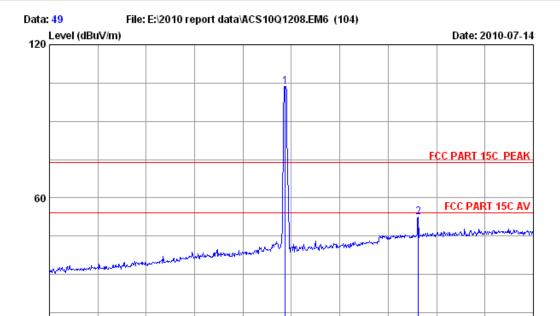
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx

M/N : PW-DN427

		Ant.	Cable	Amp.		Emission	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	44.68	54.75	74.00	19.25	Peak
2	4874.000	34.41	10.69	35.03	36.15	46.22	54.00	7.78	Average

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





Site no. : RF Chamber Data no. : 49

2200.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Frequency (MHz)

2800.

3400.

4000

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : PW-DN427

1600.

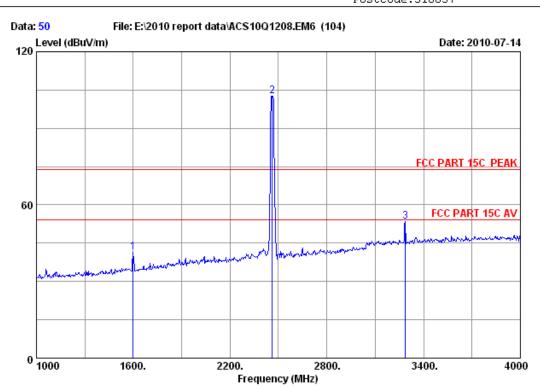
		Ant.	Cable	Amp.					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2462.000	29.48	7.54	36.61	103.25	103.66	74.00	-29.66	Peak
2	3286.000	32.72	8.88	36.20	47.11	52.51	74.00	21.49	Peak

#### Remarks

0 1000

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





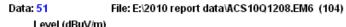
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

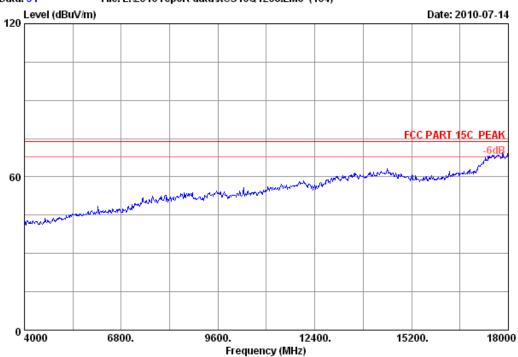
M/N : PW-DN427

		Ant.	Cable	Amp. Emission						
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/n	n) (dB)		
1	1600.000	26.96	5.91	36.94	45.56	41.49	74.00	32.51	Peak	
2	2462.000	29.48	7.54	36.61	102.25	102.66	74.00	-28.66	Peak	
3	3286.000	32.72	8.88	36.20	48.11	53.51	74.00	20.49	Peak	

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







Site no. : RF Chamber Data no. : 51

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

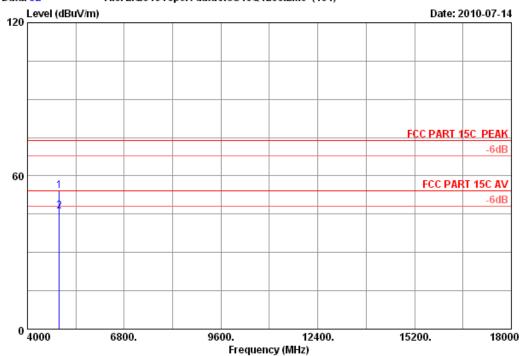
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter Power : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

: PW-DN427 M/N







Site no. : RF Chamber Data no. : 52

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

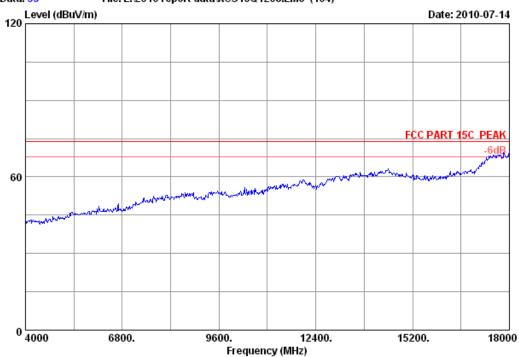
M/N : PW-DN427

	•	Cable loss (dB)	Factor	Reading (dBuV)		Limits	_	Remark
_	4924.000 4924.000	 		43.96 35.84	54.23 46.11	74.00 54.00	19.77 7.89	Peak Average

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







Site no. : RF Chamber Data no. : 53
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

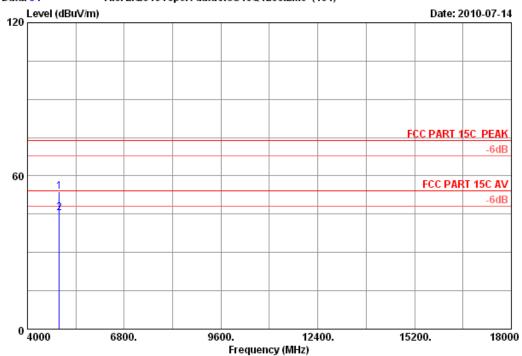
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : PW-DN427







Env. / Ins. : 23\*C/54% Engineer : Su
EUT : Wireless Lite-N USB Adapter

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

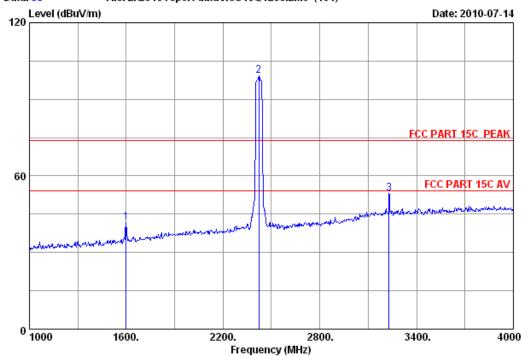
M/N : PW-DN427

	•	Cable loss (dB)	Factor	Reading (dBuV)		Limits	_	Remark
_	4924.000 4924.000	 		43.56 35.09	53.83 45.36	74.00 54.00	20.17 8.64	Peak Average

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







EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

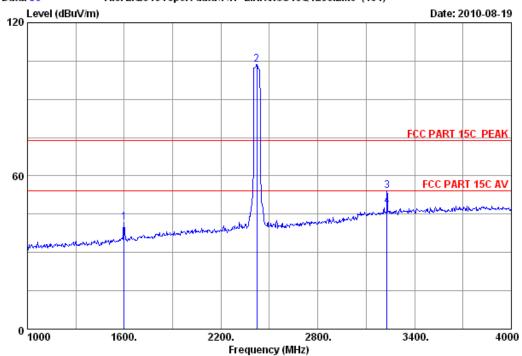
M/N : PW-DN427

			n	Emissio:		Amp.	Cable	Ant.		
	Remark	Margin	Limits	Level	Reading	Factor	loss	Factor	Freq.	
		n) (dB)	(dBuV/m	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB/m)	(MHz)	
	Peak	32.38	74.00	41.62	45.69	36.94	5.91	26.96	1600.000	1
	Peak	-25.22	74.00	99.22	98.91	36.61	7.46	29.46	2422.000	2
	Peak	20.99	74.00	53.01	47.90	36.28	8.81	32.58	3229.000	3
_	Peak	32.38 -25.22	74.00 74.00	41.62 99.22	45.69 98.91	36.94 36.61	5.91 7.46	26.96 29.46	1600.000	2

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







Site no. : 3m Chamber Data no. : 56

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

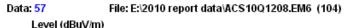
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

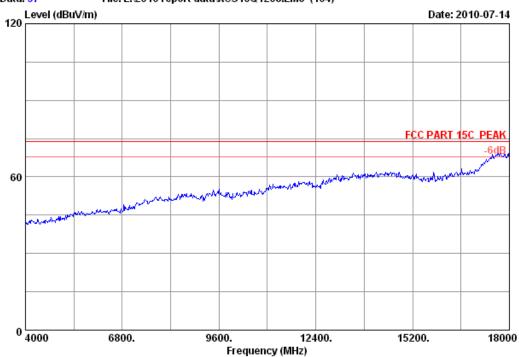
M/N : PW-DN427

		Ant.	Cable	Amp. Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	1600.000	26.96	5.91	36.94	45.69	41.62	74.00	32.38	Peak
2	2422.000	29.46	7.46	36.61	103.36	103.67	74.00	-29.67	Peak
3	3229.000	32.58	8.81	36.28	48.90	54.01	74.00	19.99	Peak
4	3229.000	32.58	8.81	36.28	42.99	48.10	54.00	5.90	Average

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







Site no. : RF Chamber Data no. : 57 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

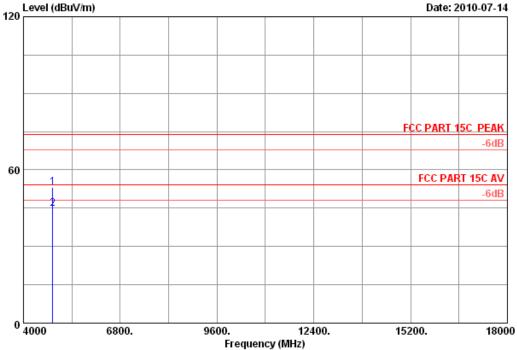
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter Power : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

: PW-DN427 M/N







Site no. : RF Chamber Data no. : 58 Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115(0911) : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

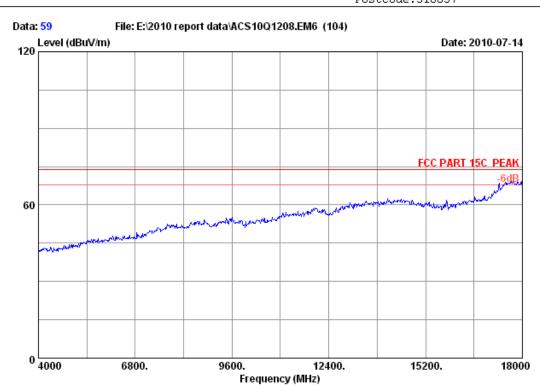
EUT : Wireless Lite-N USB Adapter : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

: PW-DN427 M/N

	Ant. Cable Amp.				Emission				
	-				Reading			_	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	34.35	10.67	35.05	43.25	53.22	74.00	20.78	Peak
2	4844.000	34.35	10.67	35.05	34.95	44.92	54.00	9.08	Average

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





Site no. : RF Chamber Data no. : 59

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

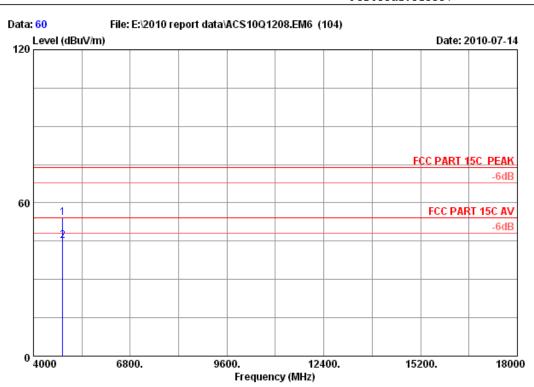
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

M/N : PW-DN427





Site no. : RF Chamber Data no. : 60

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

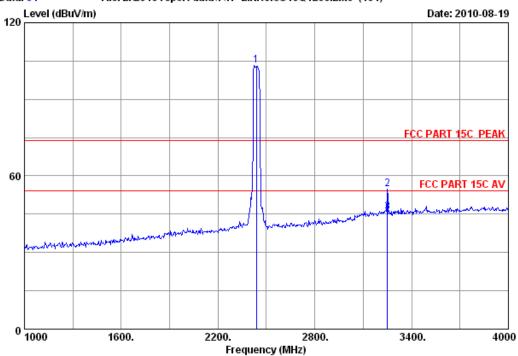
M/N : PW-DN427

	Ant. Cable Amp.				Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	34.35	10.67	35.05	44.12	54.09	74.00	19.91	Peak
2	4844.000	34.35	10.67	35.05	35.15	45.12	54.00	8.88	Average

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







Site no. : 3m Chamber Data no. : 61

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

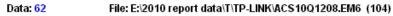
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

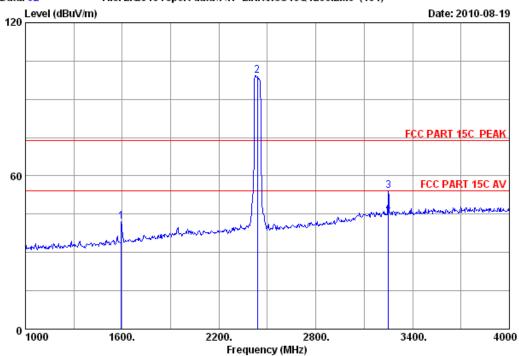
M/N : PW-DN427

		Ant.	Cable	Amp.					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/r	n) (dB)	
1	2437.000	29.47	7.46	36.61	102.82	103.14	74.00	-29.14	Peak
2	3250.000	32.63	8.83	36.25	49.58	54.79	74.00	19.21	Peak
3	3250.000	32.63	8.83	36.25	40.68	45.89	54.00	8.11	Average

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







Site no. : 3m Chamber Data no. : 62

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

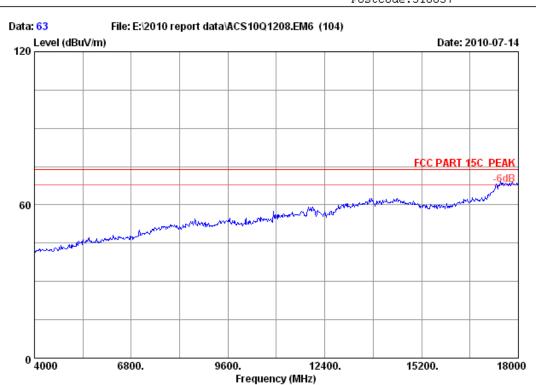
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : PW-DN427

		Ant.	Cable	Amp. Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	1594.000	26.96	5.88	36.95	46.26	42.15	74.00	31.85	Peak
2	2437.000	29.47	7.46	36.61	98.95	99.27	74.00	-25.27	Peak
3	3250.000	32.63	8.83	36.25	48.93	54.14	74.00	19.86	Peak
4	3250.000	32.63	8.83	36.25	40.15	45.36	54.00	8.64	Average

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





Site no. : RF Chamber Data no. : 63

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

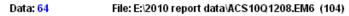
Limit : FCC PART 15C PEAK

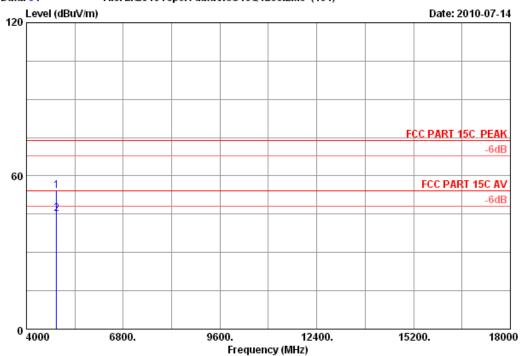
Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : PW-DN427







Site no. : RF Chamber Data no. : 64
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

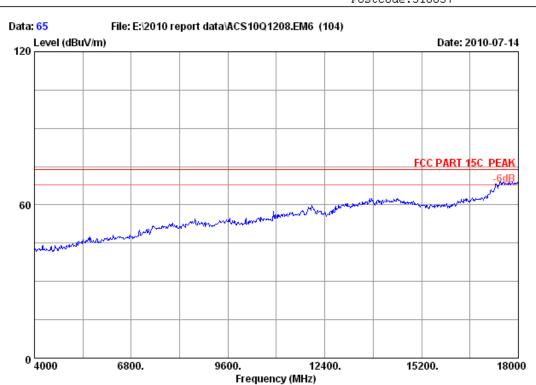
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : PW-DN427

	•	Cable loss (dB)	Factor	Reading (dBuV)		Limits	_	Remark
1 2	4874.000 4874.000	 		43.96 35.04	54.03 45.11	74.00 54.00	19.97 8.89	Peak Average

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





Site no. : RF Chamber Data no. : 65

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

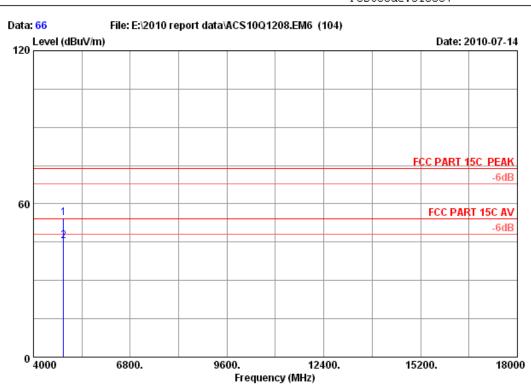
EUT : Wireless Lite-N USB Adapter

Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : PW-DN427





Site no. : RF Chamber Data no. : 66

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

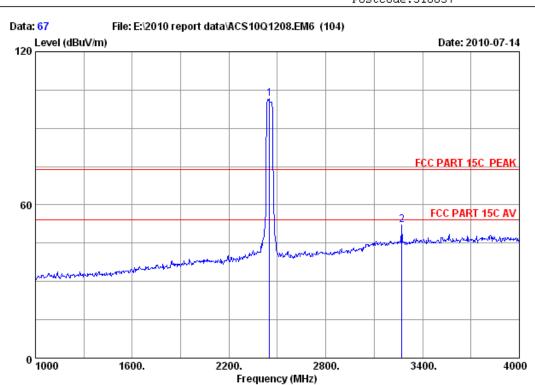
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : PW-DN427

		Ant.	Cable	Amp.		Emission	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	44.52	54.59	74.00	19.41	Peak
2	4874.000	34.41	10.69	35.03	35.49	45.56	54.00	8.44	Average

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





Site no. : RF Chamber Data no. : 67

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

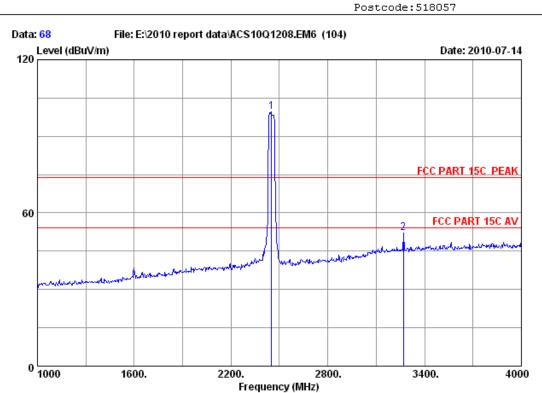
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427

	Ant. Cable Amp.									
	-				Reading (dBuV)			_	Remark	
	(nnz)	(ав/ш)	(ub)	(ав)	(ubuv)	(GBGV/M)	(ubuv/m	) (ub) 		
1	2452.000	 20 47	7 50	36 61	101 33	101 60	74 OO	 -27 60	Peak	
2	3271.000	32.72	8.86	36.22	46.91	52.27	74.00	21.73	Peak	

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





EUT : Wireless Lite-N USB Adapter

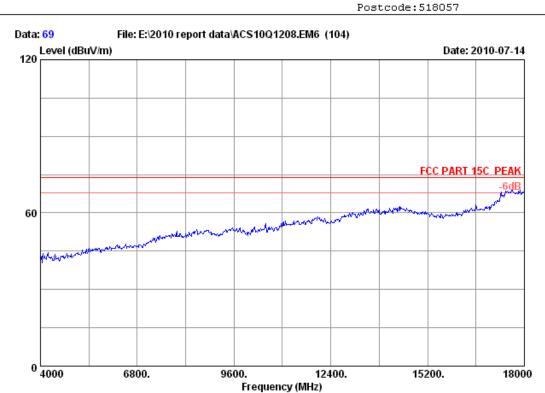
Power : DC 5V From PC Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427

From Fostor long Fostor Donding Lovel Limits Morgin Don	emark
Freq. Factor loss Factor Reading Level Limits Margin Ren (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)	
1 2452.000 29.47 7.50 36.61 99.33 99.69 74.00 -25.69 F	Peak
1 2402.000 29.47 7.00 30.01 99.03 99.09 74.00 -20.09	reak
2 3268.000 32.67 8.86 36.22 46.80 52.11 74.00 21.89 F	Peak

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





Site no. : RF Chamber Data no. : 69

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

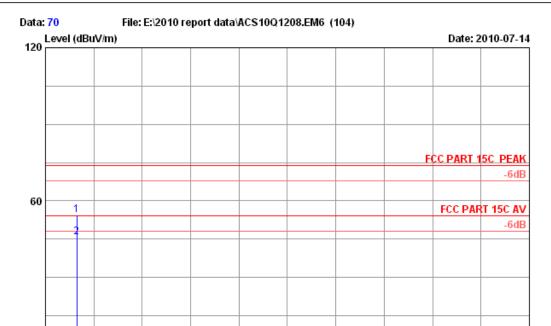
EUT : Wireless Lite-N USB Adapter

Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427





Site no. : RF Chamber Data no. : 70

9600.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Frequency (MHz)

12400.

15200.

18000

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427

6800.

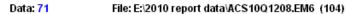
		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.000	34.46	10.74	35.00	44.21	54.41	74.00	19.59	Peak
2	4904.000	34.46	10.74	35.00	35.68	45.88	54.00	8.12	Average

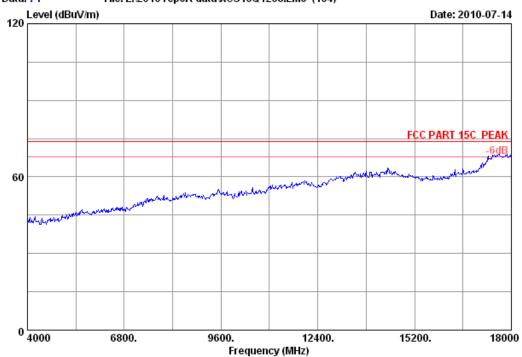
#### Remarks:

<sup>0</sup>4000

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







Site no. : RF Chamber Data no. : 71
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

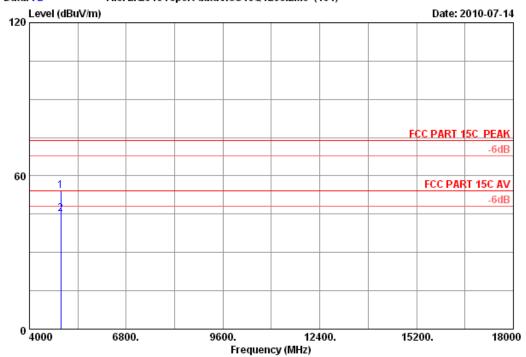
Limit : FCC PART 15C PEAK Env. / Ins. : 23\*C/54%

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427







Site no. : RF Chamber Data no. : 72
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427

	•	Cable loss (dB)	Factor	Reading (dBuV)		Limits	_	Remark
1 2	4904.000 4904.000	 		43.98 35.02	54.18 45.22	74.00 54.00	19.82 8.78	Peak Average

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

# 5. CONDUCTED SPURIOUS EMISSIONS

# 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

# 5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

# 5.3. Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer by 20dB attenuator.
- 2, Measure all the conducted emissions from antenna port by spectrum analyzer as below set:

RBW=100KHz; VBW=300KHz; Detector: Peak; Sweep time: Auto

Note: The cable loss and attenuator loss were offset into spectrum analyzer as an amplitude offset.

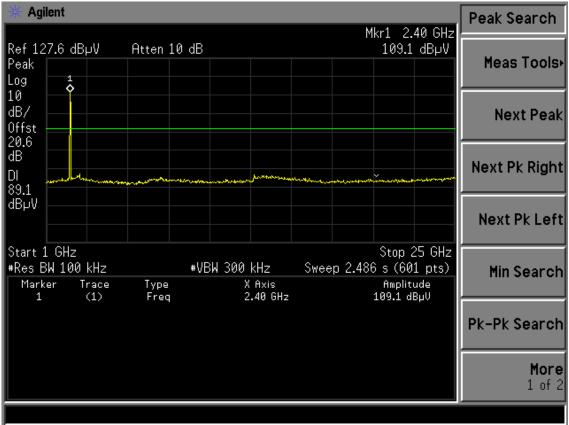
# 5.4. Test result

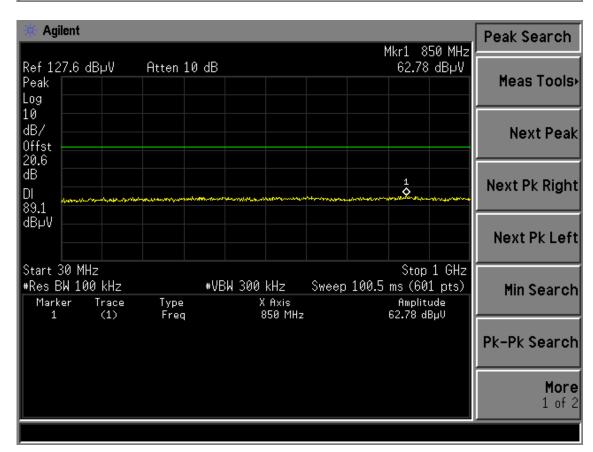
EUT: Wireless Lite-N USB Adapter							
M/N: PW-DN427	M/N: PW-DN427						
Test date:2010-07-23	Pressure:	100.6kpa	Humidity: 56 %				
Tested by: Sunny-Lu	Test site:	RF site	Temperature: 25°C				

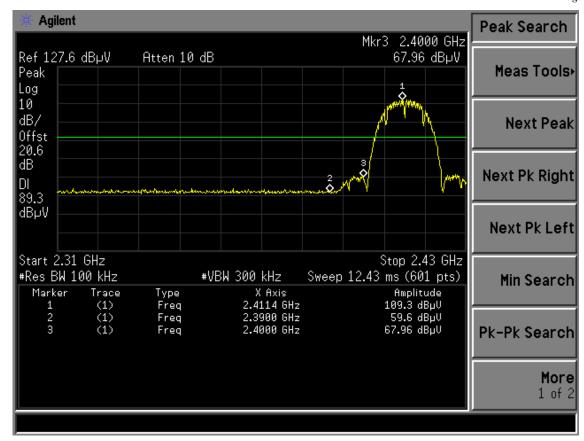
Cable loss: 0.	6dB	Attenuator loss: 20dB	Antenna Gain: 2.65dBi			
Test Mode	СН	Result				
	CH1	PASS				
11b	CH6	PASS				
	CH11	PASS				
	CH1	PASS				
11g	CH6	PASS				
	CH11	PASS				
11	CH1	PASS				
11n HT20	CH6	PASS				
П120	CH11	PA	ASS			
1.1	CH1	PASS				
11n HT40	CH4	PASS				
11140	CH7	PA	ASS			
Note: See below original test data.						

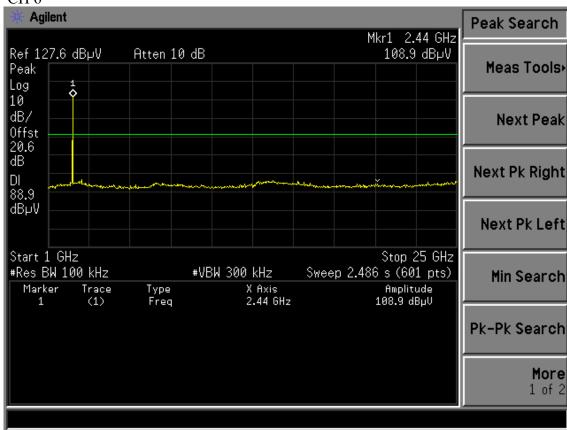
# Conducted emission test data:

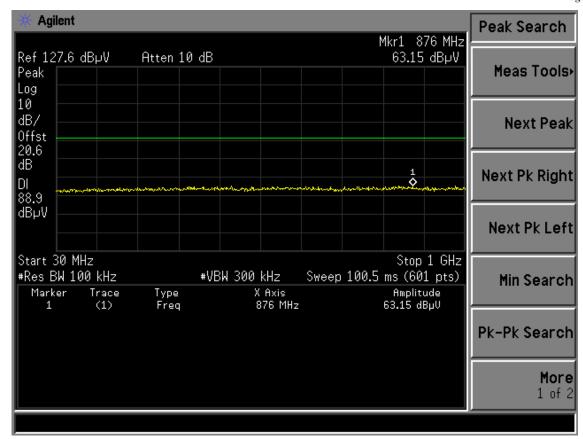
Test Mode: IEEE 802.11b TX

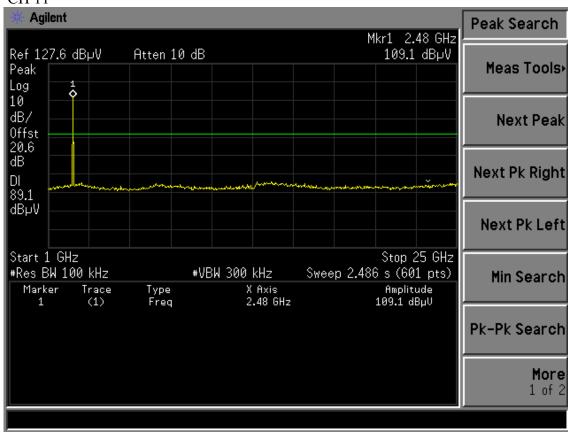


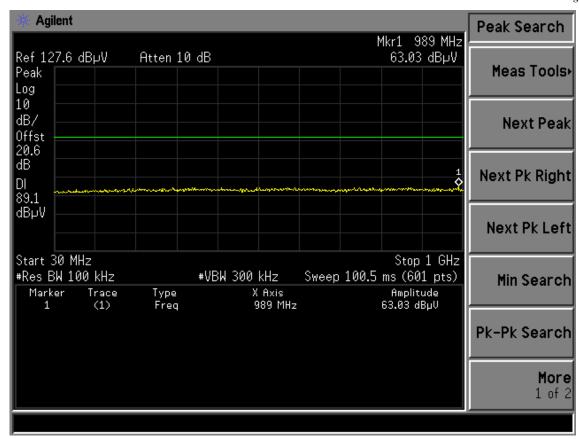


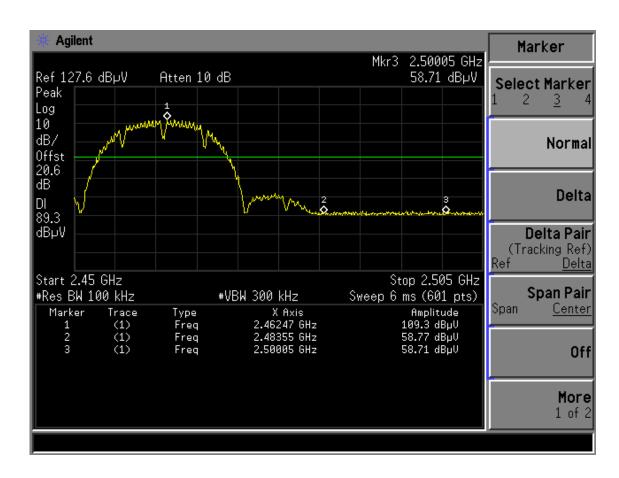




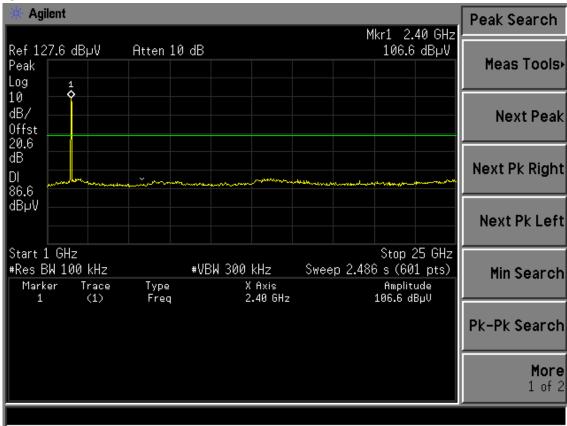


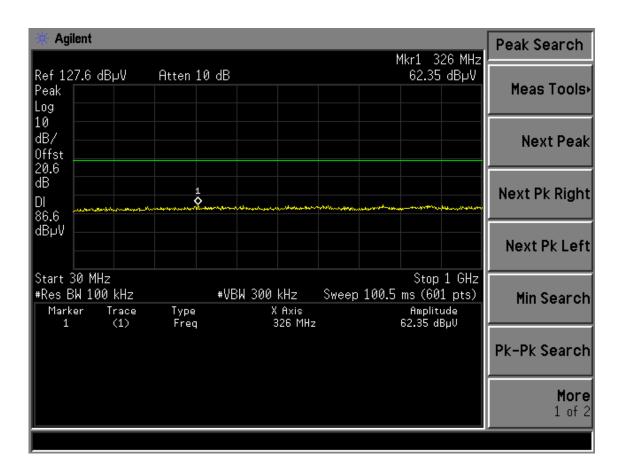


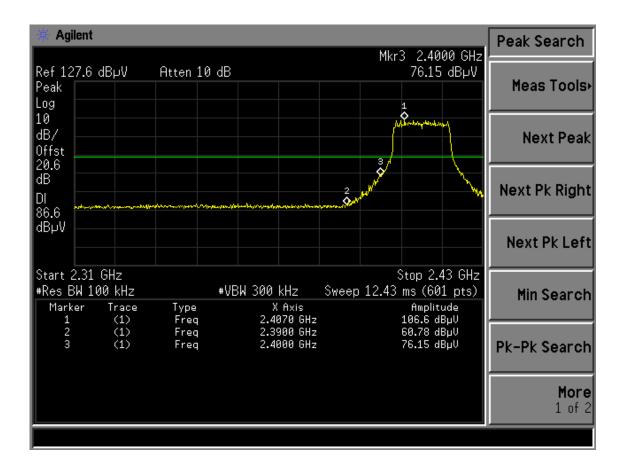


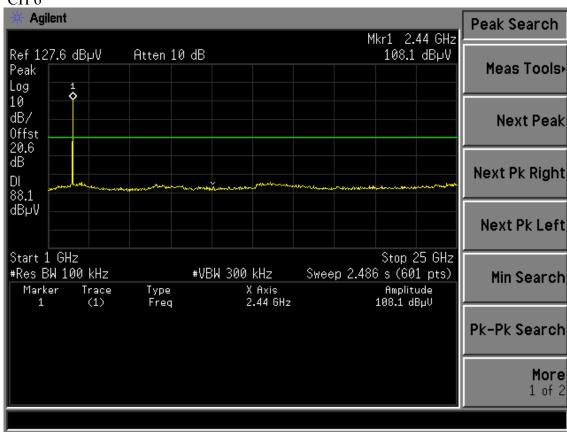


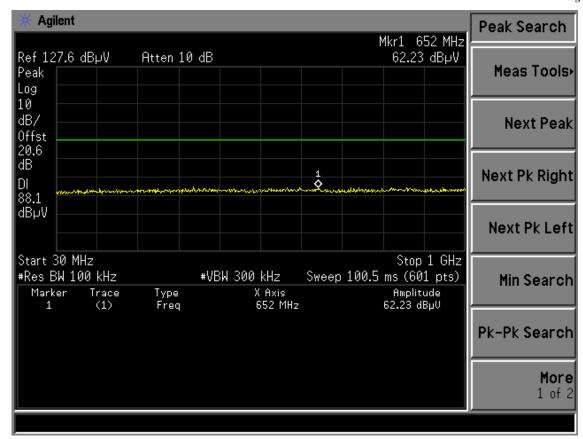
Test Mode: IEEE 802.11g TX

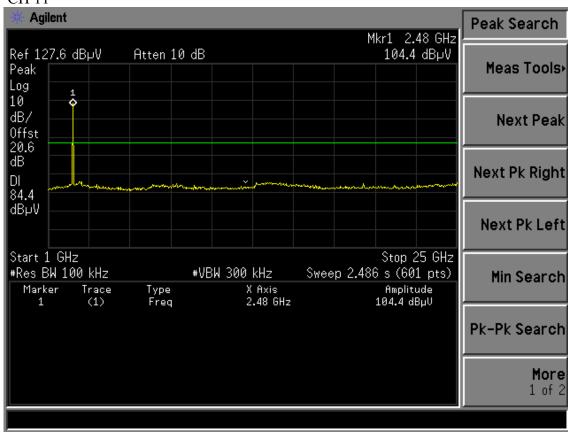


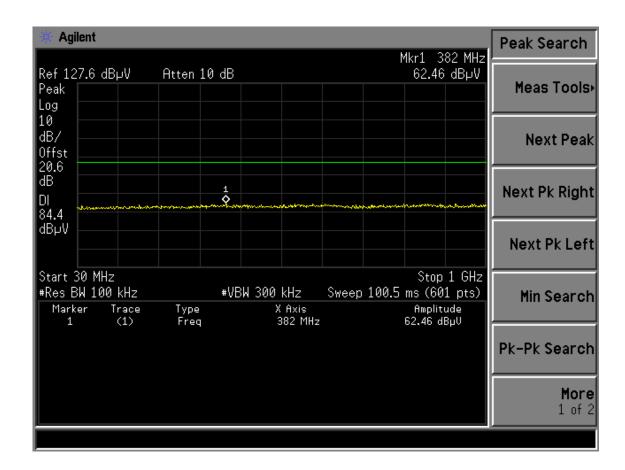


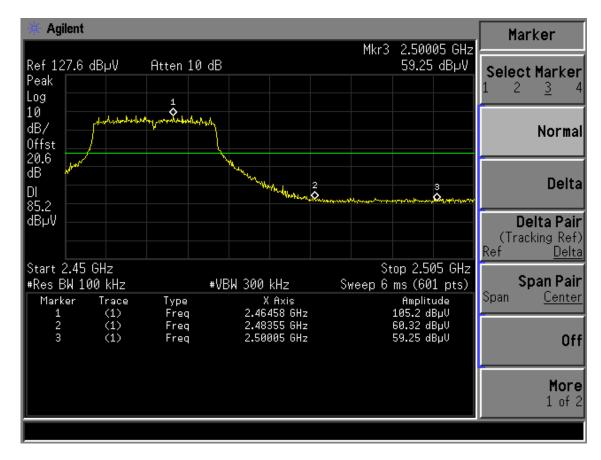




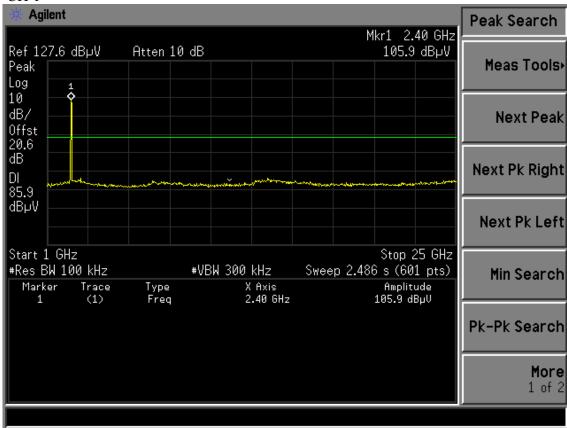


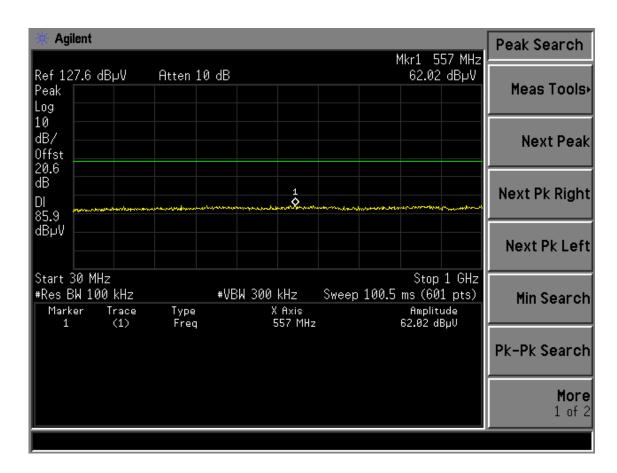


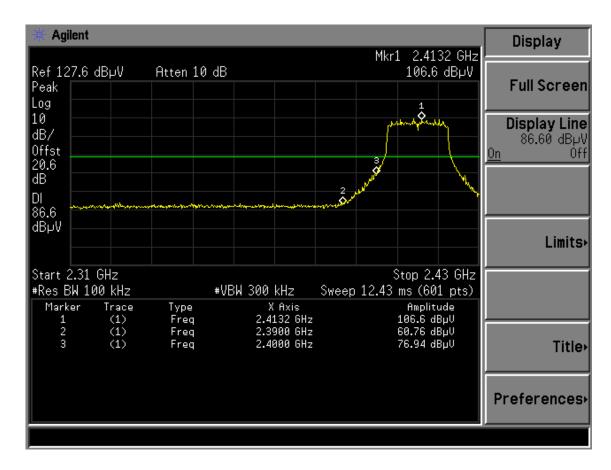




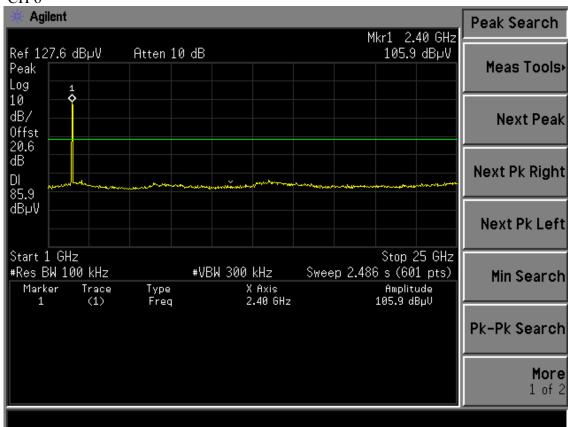
Test Mode: IEEE 802.11n HT20

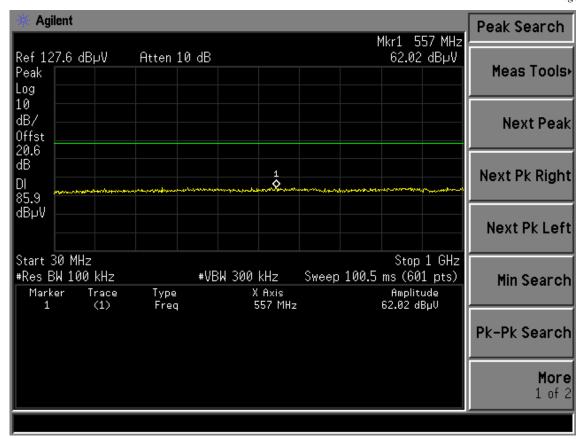


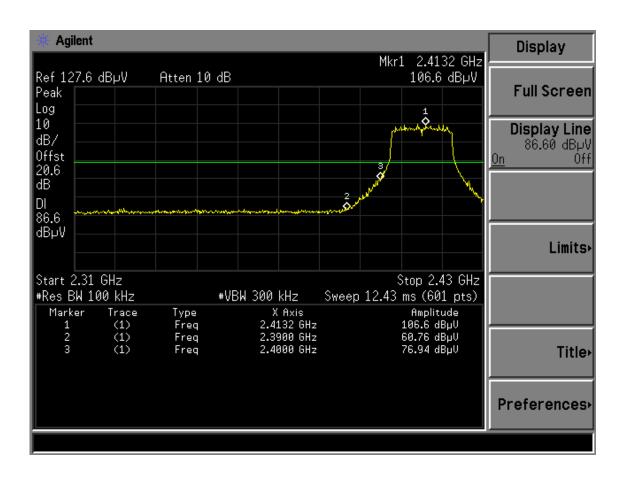


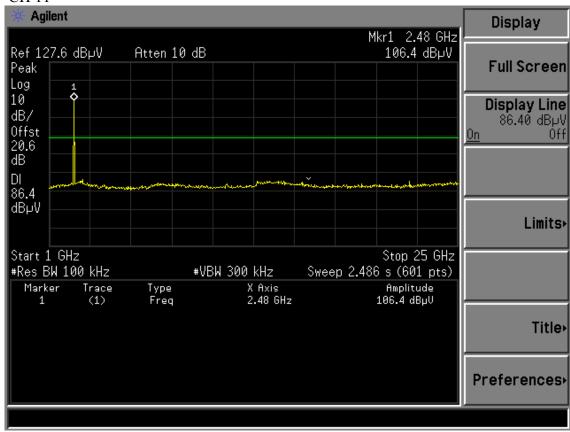


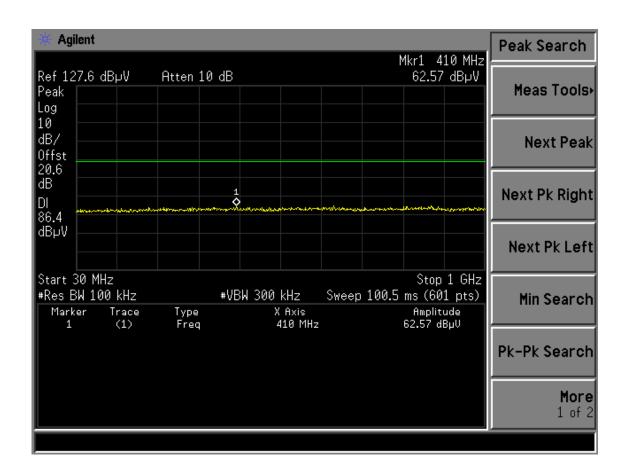


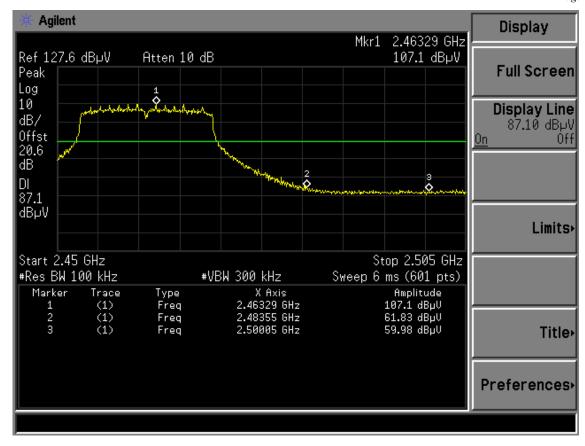






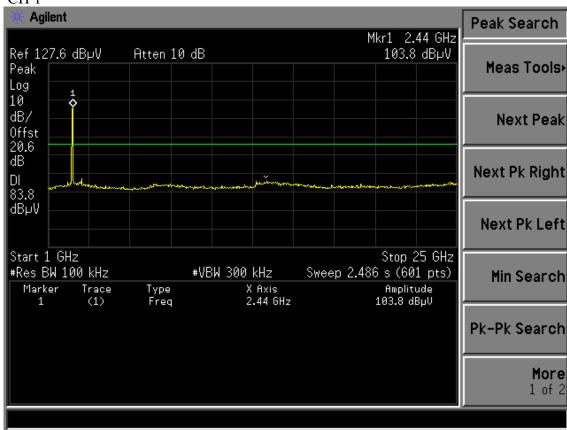


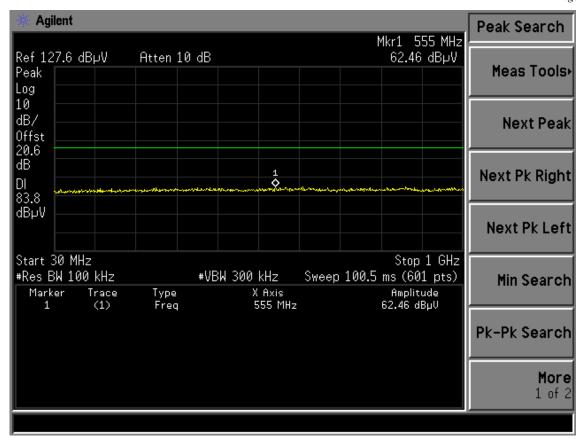


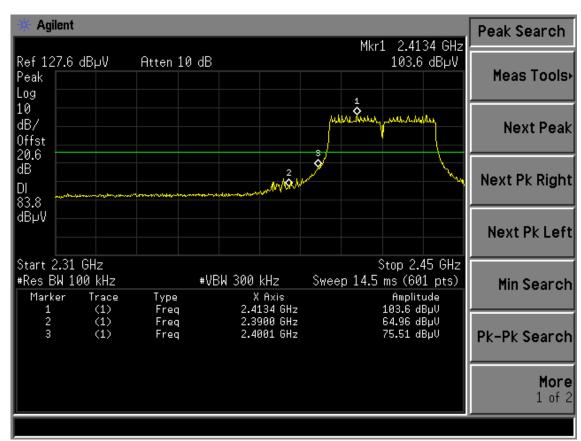


Test Mode: IEEE 802.11n HT40

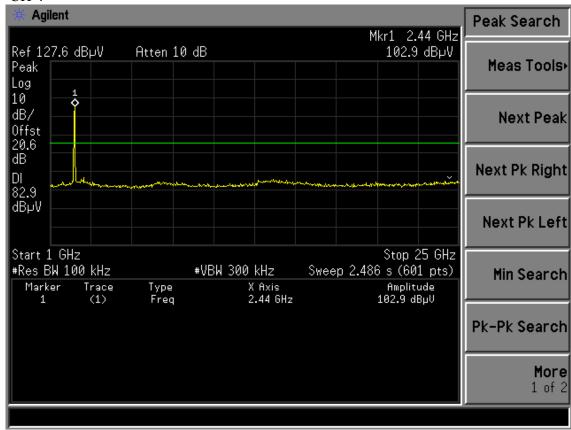


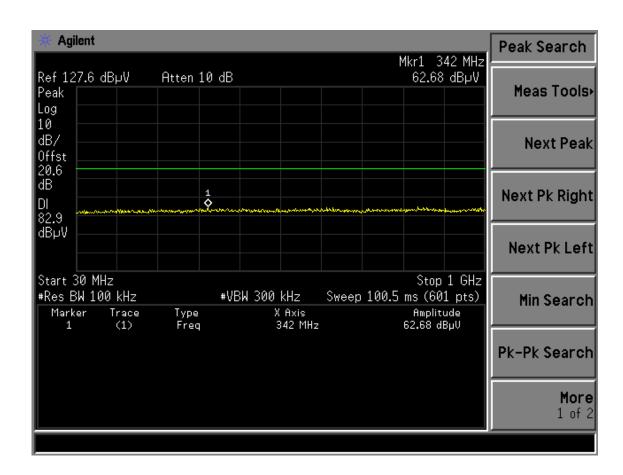




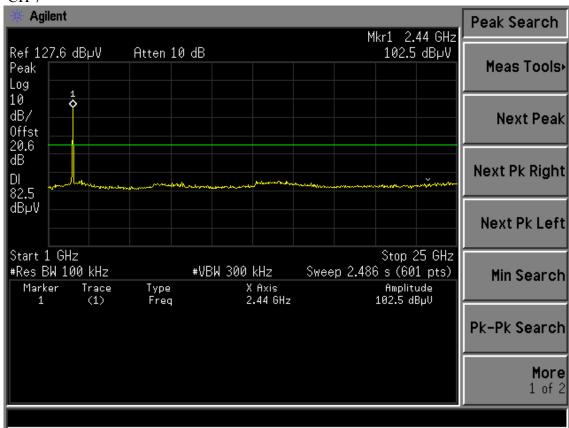


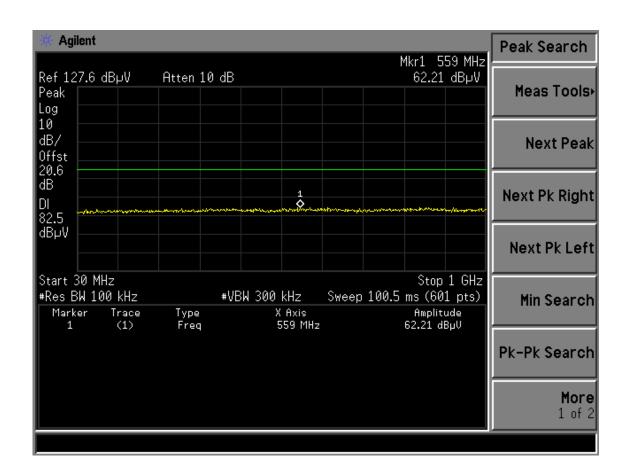
# CH 4

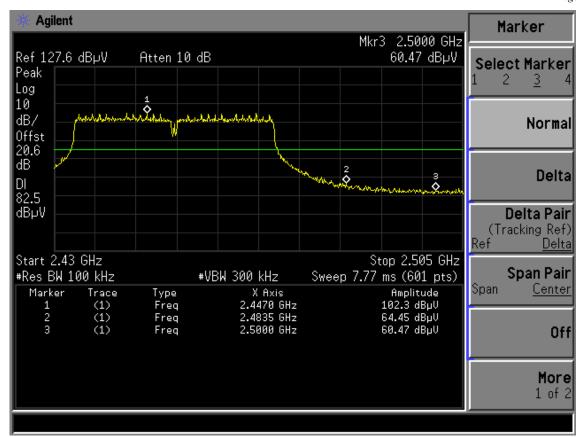




# **CH** 7







# 6. BAND EDGE COMPLIANCE TEST

# 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May.08, 10	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May.08, 10	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May.08, 10	1 Year

# 6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

# 6.3. Test Produce

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=1MHz; VBW=3MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

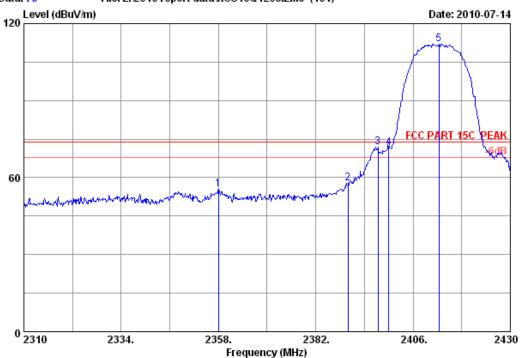
# 6.4. Test Results

Pass (The testing data was attached in the next pages.)

All the emissions outside operation frequency band were comply with 15.209 limit



Data: 73 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 73

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

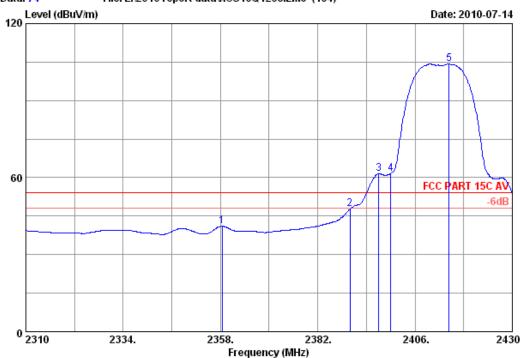
M/N : PW-DN427

		Ant.	Cable	Amp.	. Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2358.000	29.42	7.31	36.63	55.33	55.43	74.00	18.57	Peak
2	2390.000	29.44	7.39	36.62	57.52	57.73	74.00	16.27	Peak
3	2397.360	29.44	7.39	36.62	71.67	71.88	74.00	2.12	Peak
4	2400.000	29.44	7.43	36.62	71.24	71.49	74.00	2.51	Peak
5	2412.360	29.45	7.43	36.62	111.86	112.12	74.00	-38.12	Peak

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



Data: 74 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 74

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

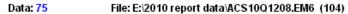
Test mode : IEEE802.11b CH1 2412MHz Tx

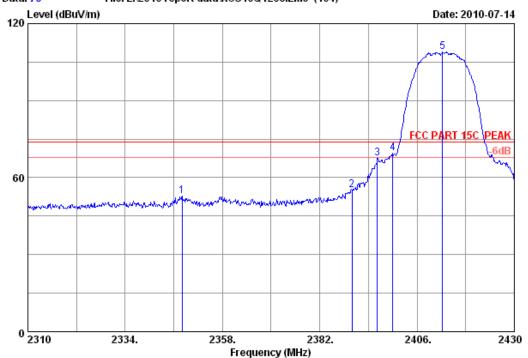
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2358.360	29.42	7.31	36.63	40.92	41.02	54.00	12.98	Average
2	2390.000	29.44	7.39	36.62	47.62	47.83	54.00	6.17	Average
3	2397.000	29.44	7.39	36.62	61.18	61.39	54.00	-7.39	Average
4	2400.000	29.44	7.43	36.62	61.35	61.60	54.00	-7.60	Average
5	2414.400	29.45	7.43	36.62	104.03	104.29	54.00 -	-50.29	Average

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







Site no. : RF Chamber Data no. : 75
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : PW-DN427

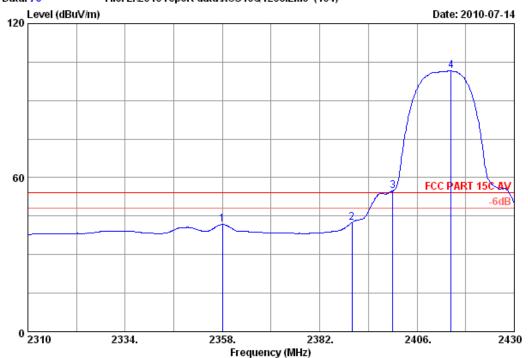
		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2348.040	29.41	7.31	36.63	52.75	52.84	74.00	21.16	Peak
2	2390.000	29.44	7.39	36.62	55.00	55.21	74.00	18.79	Peak
3	2396.160	29.44	7.39	36.62	67.31	67.52	74.00	6.48	Peak
4	2400.000	29.44	7.43	36.62	69.28	69.53	74.00	4.47	Peak
5	2412.240	29.45	7.43	36.62	108.64	108.90	74.00	-34.90	Peak

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



Postcode:518057

Data: 76 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 76
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

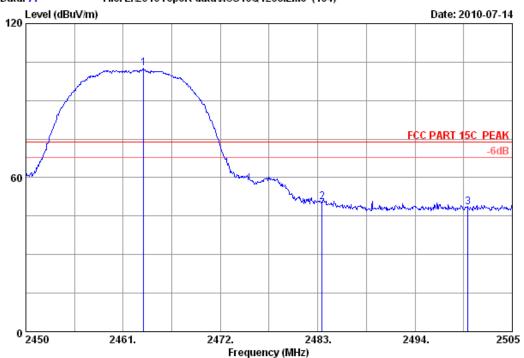
M/N : PW-DN427

		Ant.	Cable	Amp.	. Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2358.000	29.42	7.31	36.63	41.60	41.70	54.00	12.30	Average
2	2390.000	29.44	7.39	36.62	42.33	42.54	54.00	11.46	Average
3	2400.000	29.44	7.43	36.62	54.63	54.88	54.00	-0.88	Average
4	2414.400	29.45	7.43	36.62	101.42	101.68	54.00	-47.68	Average

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



Data: 77 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 77
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

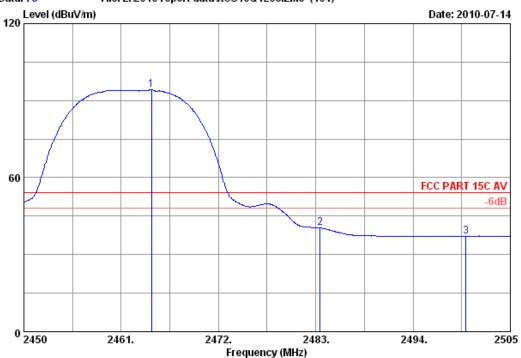
M/N : PW-DN427

		Ant.	Cable	e Amp. Emission						
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	2463.310	29.48	7.54	36.61	102.12	102.53	74.00	-28.53	Peak	
2	2483.500	29.49	7.58	36.60	49.91	50.38	74.00	23.62	Peak	
3	2500.000	29.50	7.62	36.60	47.82	48.34	74.00	25.66	Peak	

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



Data: 78 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 78
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : PW-DN427

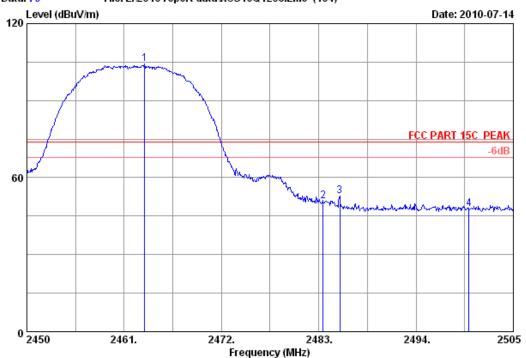
		Ant.	Cable	e Amp. Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2464.410	29.48	7.54	36.61	93.73	94.14	54.00	-40.14	Average
2	2483.500	29.49	7.58	36.60	39.89	40.36	54.00	13.64	Average
3	2500.000	29.50	7.62	36.60	36.70	37.22	54.00	16.78	Average

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



Postcode:518057

Data: 79 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 79

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

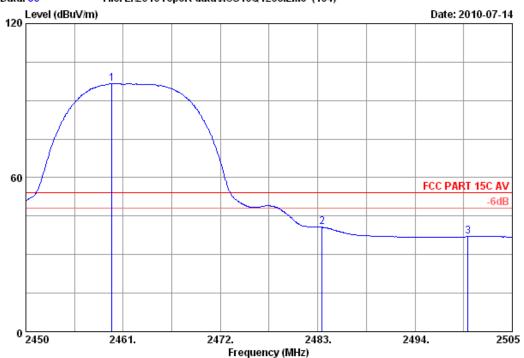
M/N : PW-DN427

		ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.310	29.48	7.54	36.61	103.85	104.26	74.00 -	-30.26	Peak
2	2483.500	29.49	7.58	36.60	50.19	50.66	74.00	23.34	Peak
3	2485.365	29.49	7.58	36.60	52.34	52.81	74.00	21.19	Peak
4	2500.000	29.50	7.62	36.60	47.31	47.83	74.00	26.17	Peak

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



Data: 80 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 80

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : PW-DN427

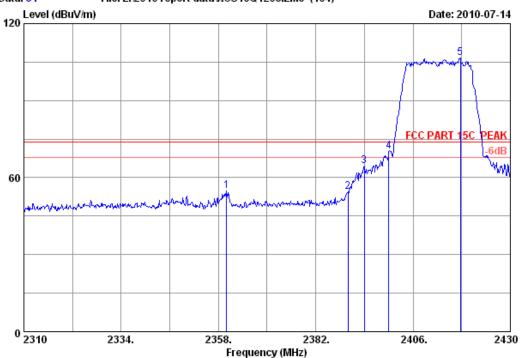
		Ant.	Cable	e Amp. Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/n	) (dB)	
1	2459.735	29.48	7.54	36.61	96.19	96.60	54.00	-42.60	Average
2	2483.500	29.49	7.58	36.60	40.18	40.65	54.00	13.35	Average
3	2500.000	29.50	7.62	36.60	36.44	36.96	54.00	17.04	Average

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



Postcode:518057

Data: 81 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 81

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2360.040	29.42	7.35	36.63	54.57	54.71	74.00	19.29	Peak
2	2390.000	29.44	7.39	36.62	54.14	54.35	74.00	19.65	Peak
3	2394.000	29.44	7.39	36.62	64.39	64.60	74.00	9.40	Peak
4	2400.000	29.44	7.43	36.62	69.87	70.12	74.00	3.88	Peak
5	2417.640	29.45	7.43	36.61	106.40	106.67	74.00 -	-32.67	Peak

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



Postcode:518057

# Data: 82 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 82

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

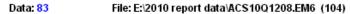
M/N : PW-DN427

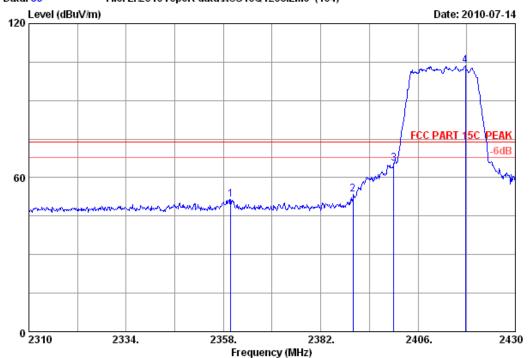
		Ant.	Cable	Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2359.800	29.42	7.35	36.63	39.53	39.67	54.00	14.33	Average
2	2390.000	29.44	7.39	36.62	41.29	41.50	54.00	12.50	Average
3	2400.000	29.44	7.43	36.62	53.94	54.19	54.00	-0.19	Average
4	2416.560	29.45	7.43	36.61	94.90	95.17	54.00	-41.17	Average

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



Postcode:518057





Site no. : RF Chamber Data no. : 83
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

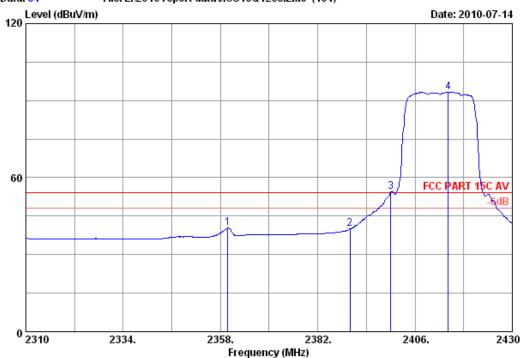
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2359.800	29.42	7.35	36.63	51.24	51.38	74.00	22.62	Peak	
2	2390.000	29.44	7.39	36.62	53.14	53.35	74.00	20.65	Peak	
3	2400.000	29.44	7.43	36.62	65.20	65.45	74.00	8.55	Peak	
4	2417.640	29.45	7.43	36.61	103.24	103.51	74.00 -	-29.51	Peak	

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



Data: 84 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 84
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

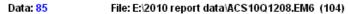
M/N : PW-DN427

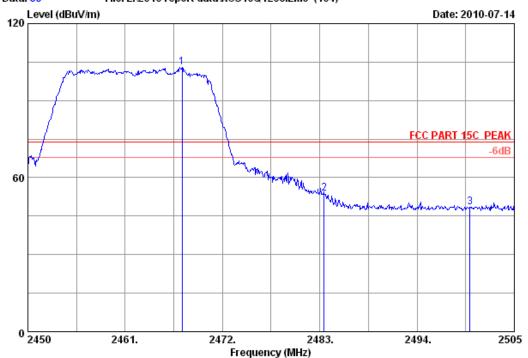
		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2359.800	29.42	7.35	36.63	40.19	40.33	54.00	13.67	Average
2	2390.000	29.44	7.39	36.62	39.85	40.06	54.00	13.94	Average
3	2400.000	29.44	7.43	36.62	54.14	54.39	54.00	-0.39	Average
4	2414.160	29.45	7.43	36.62	93.07	93.33	54.00	-39.33	Average

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



Postcode:518057





Site no. : RF Chamber Data no. : 85
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

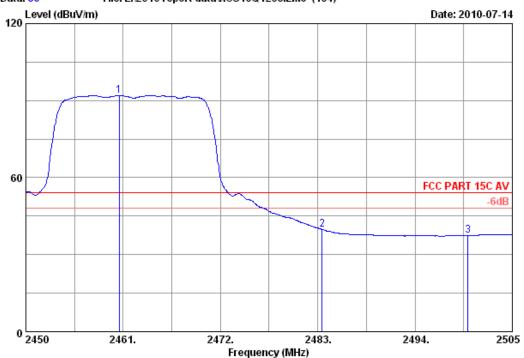
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
										-
1	2467.435	29.48	7.54	36.60	102.44	102.86	74.00	-28.86	Peak	
2	2483.500	29.49	7.58	36.60	53.47	53.94	74.00	20.06	Peak	
3	2500.000	29.50	7.62	36.60	47.96	48.48	74.00	25.52	Peak	
										_

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



Data: 86 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 86
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

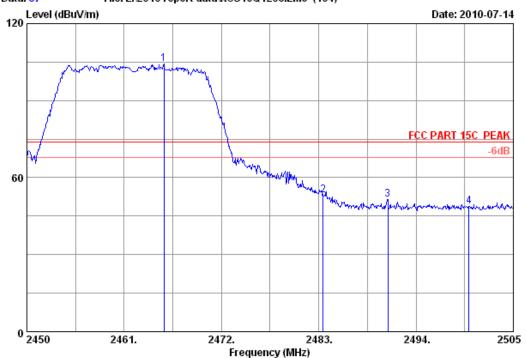
M/N : PW-DN427

				Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2460.560	29.48	7.54	36.61	91.51	91.92	54.00	-37.92	Average
2	2483.500	29.49	7.58	36.60	39.31	39.78	54.00	14.22	Average
3	2500.000	29.50	7.62	36.60	36.91	37.43	54.00	16.57	Average

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



Data: 87 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 87

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

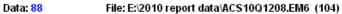
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

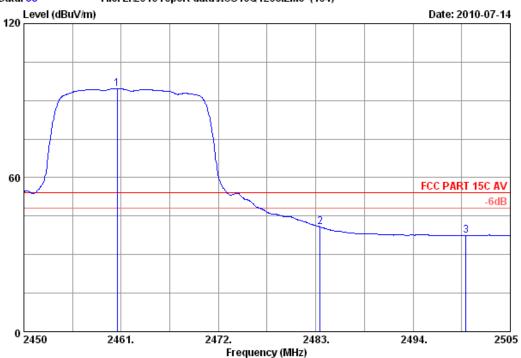
M/N : PW-DN427

		ant.	Cable	Amp.		Em13310	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
										-
1	2465.510	29.48	7.54	36.61	103.73	104.14	74.00 -	-30.14	Peak	
2	2483.500	29.49	7.58	36.60	52.75	53.22	74.00	20.78	Peak	
3	2490.810	29.50	7.58	36.60	50.94	51.42	74.00	22.58	Peak	
4	2500.000	29.50	7.62	36.60	48.30	48.82	74.00	25.18	Peak	

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







Site no. : RF Chamber Data no. : 88

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx

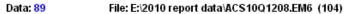
M/N : PW-DN427

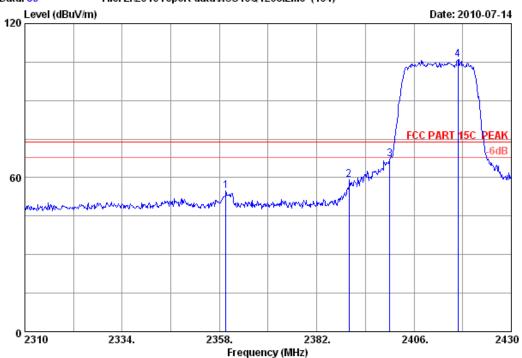
		Ant.	Cable	e Amp. Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2460.560	29.48	7.54	36.61	94.28	94.69	54.00	-40.69	Average
2	2483.500	29.49	7.58	36.60	40.26	40.73	54.00	13.27	Average
3	2500.000	29.50	7.62	36.60	36.99	37.51	54.00	16.49	Average

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



Postcode:518057





Site no. : RF Chamber Data no. : 89

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : PW-DN427

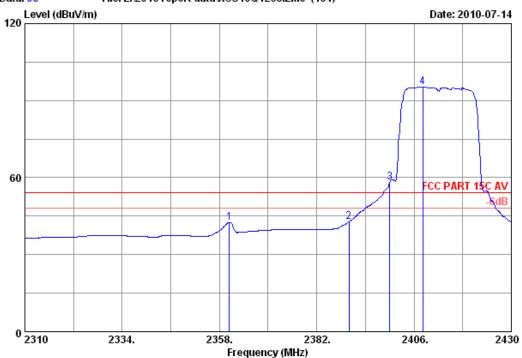
		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
										-
1	2359.560	29.42	7.35	36.63	54.63	54.77	74.00	19.23	Peak	
2	2390.000	29.44	7.39	36.62	58.84	59.05	74.00	14.95	Peak	
3	2400.000	29.44	7.43	36.62	66.81	67.06	74.00	6.94	Peak	
4	2416.800	29.45	7.43	36.61	105.57	105.84	74.00 -	-31.84	Peak	

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



Postcode:518057

Data: 90 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 90

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : PW-DN427

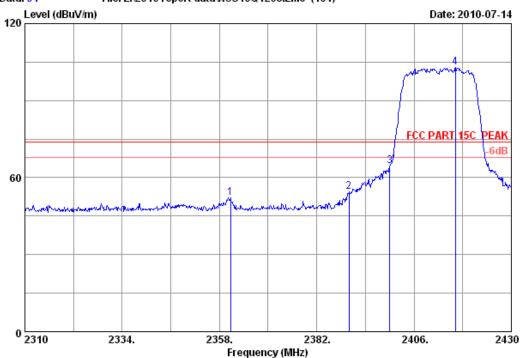
		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2360.400	29.42	7.35	36.63	42.44	42.58	54.00	11.42	Average
2	2390.000	29.44	7.39	36.62	42.65	42.86	54.00	11.14	Average
3	2400.000	29.44	7.43	36.62	57.96	58.21	54.00	-4.21	Average
4	2408.160	29.45	7.43	36.62	94.98	95.24	54.00 -	41.24	Average

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



Postcode:518057

# Data: 91 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 91
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

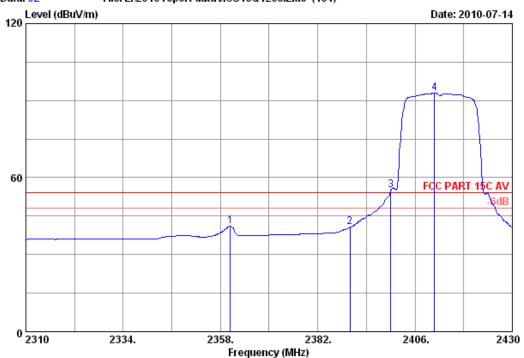
M/N : PW-DN427

Freq. (MHz)		Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio Level (dBuV/m)	Limits	Margin ) (dB)	Remark
1 2360.76 2 2390.00 3 2400.00 4 2416.20	0 29.44 0 29.44	7.35 7.39 7.43 7.43	36.62	51.93 54.31 64.20 102.72	52.07 54.52 64.45 102.99	74.00 74.00 74.00 74.00	21.93 19.48 9.55 -28.99	Peak Peak Peak Peak

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



Data: 92 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 92
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : PW-DN427

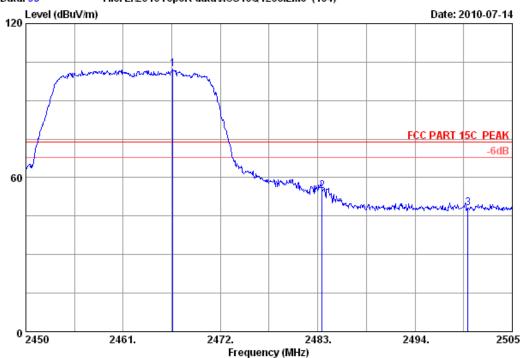
		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2360.400	29.42	7.35	36.63	40.92	41.06	54.00	12.94	Average
2	2390.000	29.44	7.39	36.62	40.49	40.70	54.00	13.30	Average
3	2400.000	29.44	7.43	36.62	54.76	55.01	54.00	-1.01	Average
4	2410.800	29.45	7.43	36.62	92.67	92.93	54.00 -	-38.93	Average

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



Postcode:518057

Data: 93 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 93
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

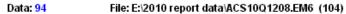
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

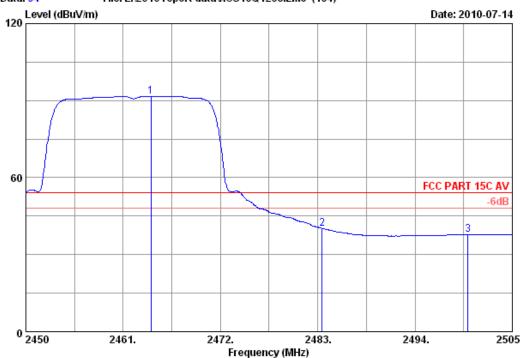
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
										-
1	2466.610	29.48	7.54	36.60	101.77	102.19	74.00	-28.19	Peak	
2	2483.500	29.49	7.58	36.60	54.30	54.77	74.00	19.23	Peak	
3	2500.000	29.50	7.62	36.60	47.58	48.10	74.00	25.90	Peak	
										_

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







Site no. : RF Chamber Data no. : 94
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

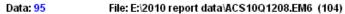
EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

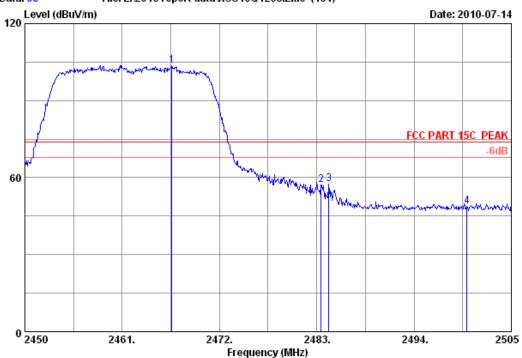
M/N : PW-DN427

				Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2464.135	29.48	7.54	36.61	91.32	91.73	54.00	-37.73	Average
2	2483.500	29.49	7.58	36.60	39.70	40.17	54.00	13.83	Average
3	2500.000	29.50	7.62	36.60	37.19	37.71	54.00	16.29	Average

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







Site no. : RF Chamber Data no. : 95

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

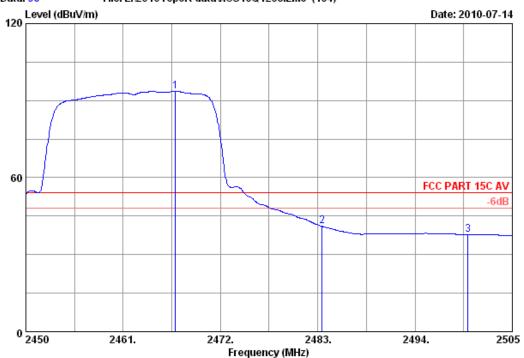
M/N : PW-DN427

		ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2466.610	29.48	7.54	36.60	103.32	103.74	74.00	-29.74	Peak
2	2483.500	29.49	7.58	36.60	56.74	57.21	74.00	16.79	Peak
3	2484.375	29.49	7.58	36.60	57.08	57.55	74.00	16.45	Peak
4	2500.000	29.50	7.62	36.60	48.24	48.76	74.00	25.24	Peak

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



Data: 96 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 96

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

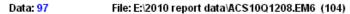
M/N : PW-DN427

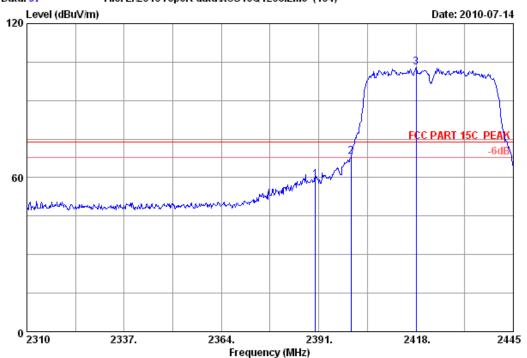
		Ant.	Cable Amp. Emission						
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2466.885	29.48	7.54	36.60	93.09	93.51	54.00	-39.51	Average
2	2483.500	29.49	7.58	36.60	40.56	41.03	54.00	12.97	Average
3	2500.000	29.50	7.62	36.60	37.28	37.80	54.00	16.20	Average

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



Postcode:518057





Site no. : RF Chamber Data no. : 97

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

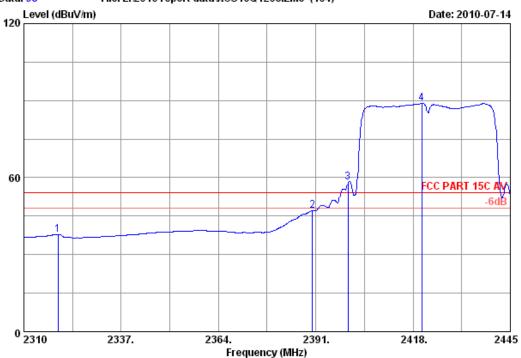
M/N : PW-DN427

	Ant. Cabl			Amp. Emission						
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
										-
1	2390.000	29.44	7.39	36.62	59.01	59.22	74.00	14.78	Peak	
2	2400.000	29.44	7.43	36.62	68.01	68.26	74.00	5.74	Peak	
3	2418.000	29.45	7.43	36.61	102.75	103.02	74.00	-29.02	Peak	
										_

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



Data: 98 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 98

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

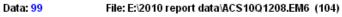
M/N : PW-DN427

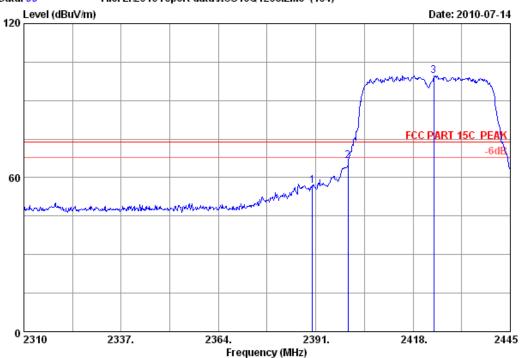
		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2319.450	29.40	7.27	36.63	37.80	37.84	54.00	16.16	Average
2	2390.000	29.44	7.39	36.62	46.97	47.18	54.00	6.82	Average
3	2400.000	29.44	7.43	36.62	57.86	58.11	54.00	-4.11	Average
4	2420.430	29.46	7.46	36.61	88.54	88.85	54.00 -	34.85	Average

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



Postcode:518057





Site no. : RF Chamber Data no. : 99
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

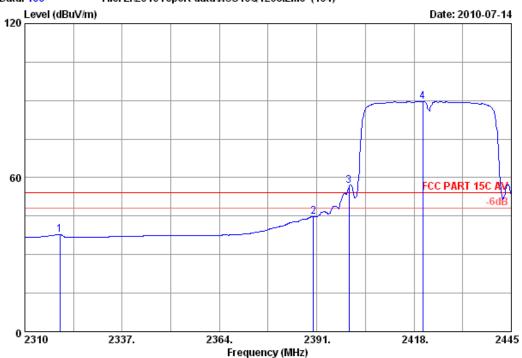
M/N : PW-DN427

	Ant. Cable			Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/n	) (dB)		
1	2390.000	29.44	7.39	36.62	56.49	56.70	74.00	17.30	Peak	
2	2400.000	29.44	7.43	36.62	66.10	66.35	74.00	7.65	Peak	
3	2423.805	29.46	7.46	36.61	99.37	99.68	74.00	-25.68	Peak	

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



Data: 100 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 100
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

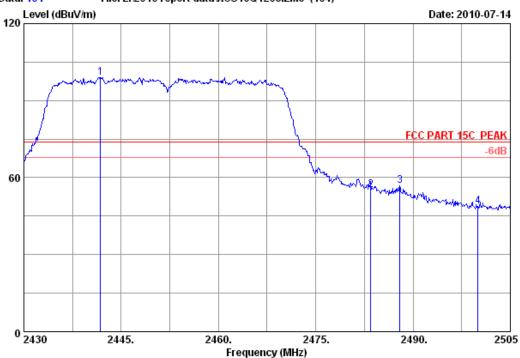
M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2319.720	29.40	7.27	36.63	37.78	37.82	54.00	16.18	Average
2	2390.000	29.44	7.39	36.62	44.68	44.89	54.00	9.11	Average
3	2400.000	29.44	7.43	36.62	56.46	56.71	54.00	-2.71	Average
4	2420.430	29.46	7.46	36.61	89.25	89.56	54.00 -	35.56	Average

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



Data: 101 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 101
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

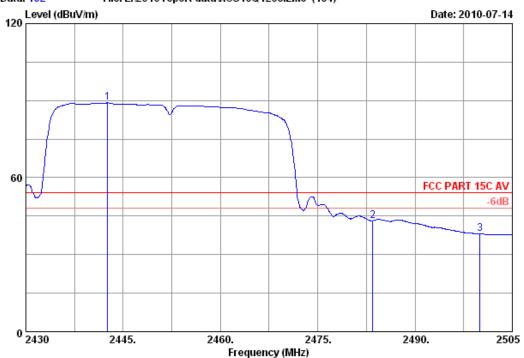
M/N : PW-DN427

		ant.	Cable	Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	) (dB)	
1	2441.775	29.47	7.50	36.61	98.71	99.07	74.00	-25.07	Peak
2	2483.500	29.49	7.58	36.60	54.67	55.14	74.00	18.86	Peak
3	2487.975	29.50	7.58	36.60	56.48	56.96	74.00	17.04	Peak
4	2500.000	29.50	7.62	36.60	48.22	48.74	74.00	25.26	Peak

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



Data: 102 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 102
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

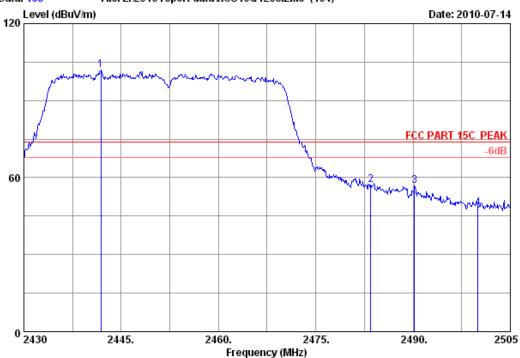
M/N : PW-DN427

		Ant.	Cable	Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/n	n) (dB)	
1	2442.600	29.47	7.50	36.61	88.75	89.11	54.00	-35.11	Average
2	2483.500	29.49	7.58	36.60	42.81	43.28	54.00	10.72	Average
3	2500.000	29.50	7.62	36.60	37.58	38.10	54.00	15.90	Average

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



Data: 103 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 103

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter

Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427

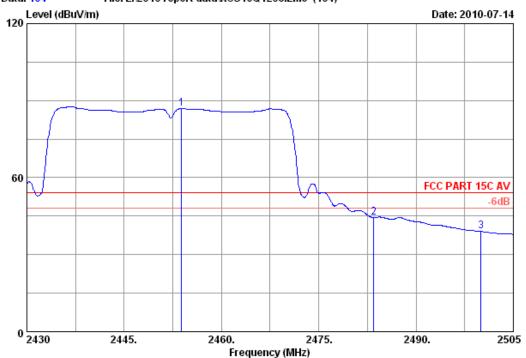
		Ant.	Cable	Amp.	Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	(dB)		
1	2441.850	29.47	7.50	36.61	101.49	101.85	74.00	-27.85	Peak	
2	2483.500	29.49	7.58	36.60	56.62	57.09	74.00	16.91	Peak	
3	2490.225	29.50	7.58	36.60	56.19	56.67	74.00	17.33	Peak	
4	2500.000	29.50	7.62	36.60	47.70	48.22	74.00	25.78	Peak	

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



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Data: 104 File: E:\2010 report data\ACS10Q1208.EM6 (104)



Site no. : RF Chamber Data no. : 104

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Sunny-lu

EUT : Wireless Lite-N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : PW-DN427

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2453.850	29.48	7.50	36.61	86.49	86.86	54.00	-32.86	Average
2	2483.500	29.49	7.58	36.60	43.84	44.31	54.00	9.69	Average
3	2500.000	29.50	7.62	36.60	38.55	39.07	54.00	14.93	Average

#### Remarks:

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

## 7. 6dB Bandwidth Test

## 7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 10	1Year

## 7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

### 7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

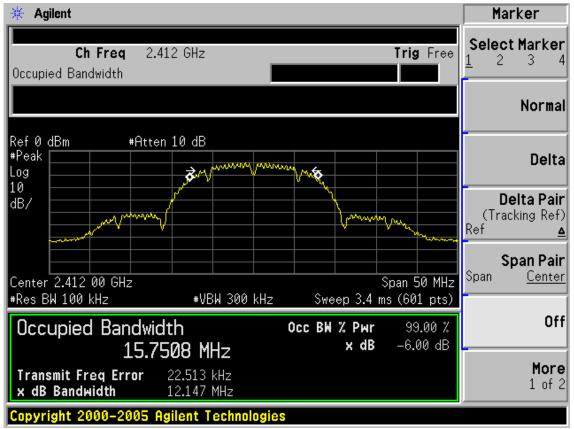
### 7.4. Test Results

EUT:Wireless Lite-N USB Adapter							
M/N:PW-DN427	M/N:PW-DN427						
Test date:2010-07-23	Pressure: 100.6 kpa	Humidity: 62 %					
Tested by:Sunny-lu	Test site: RF Site	Temperature : 25 ℃					

Cable loss: 0.6	iВ	Attenuator loss: 20 dB	Antenna Gain: 2.65 dBi			
Test Mode	СН	6dB bandwidth ( MHz )	Limit (KHz)			
	CH1	12.147	>500			
11b	CH6	12.196	>500			
	CH11	12.552	>500			
	CH1	16.542	>500			
11g	CH6	16.502	>500			
	CH11	16.471	>500			
11	CH1	17.598	>500			
11n HT20	CH6	17.707	>500			
11120	CH11	17.700	>500			
11	CH1	36.437	>500			
11n HT40	CH4	36.321	>500			
11140	CH7	36.385	>500			
Conclusion: PASS						

Test Mode: IEEE 802.11b TX

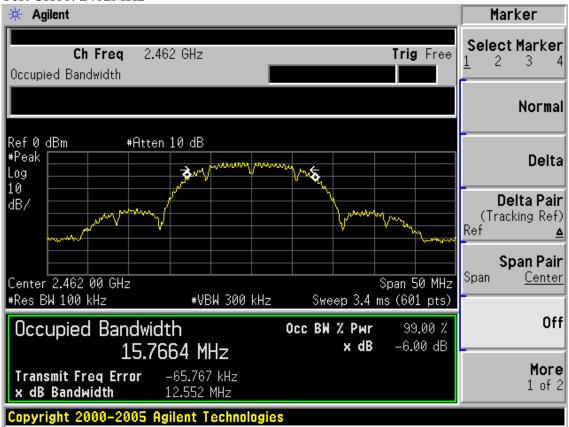
Test CH1: 2412MHz



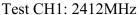
#### Test CH6: 2437MHz

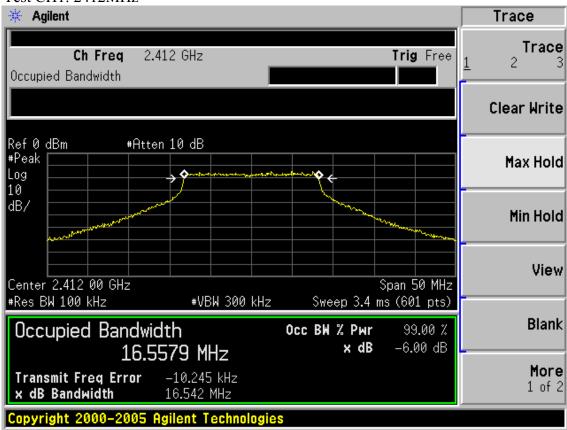


Test CH11: 2462MHz

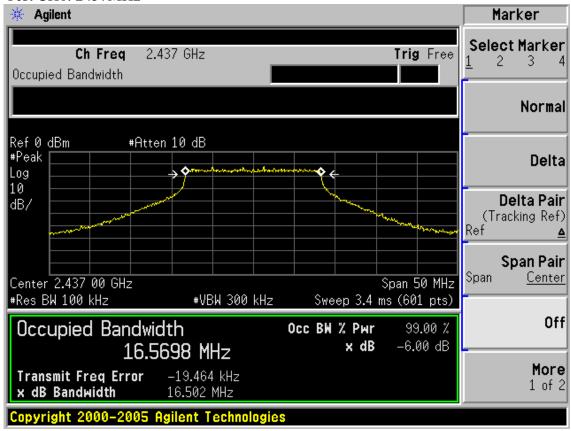


Test Mode: IEEE 802.11g TX

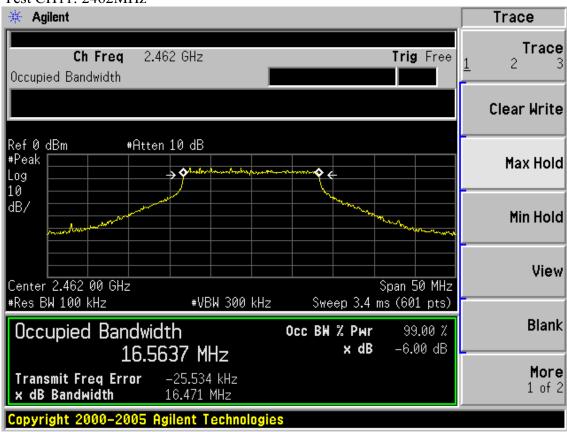




Test CH6: 2437MHz

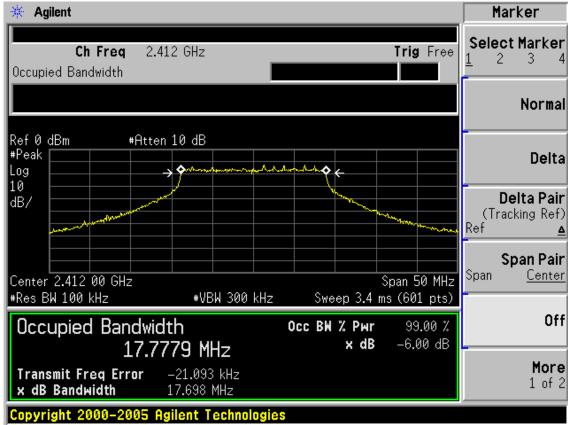


Test CH11: 2462MHz

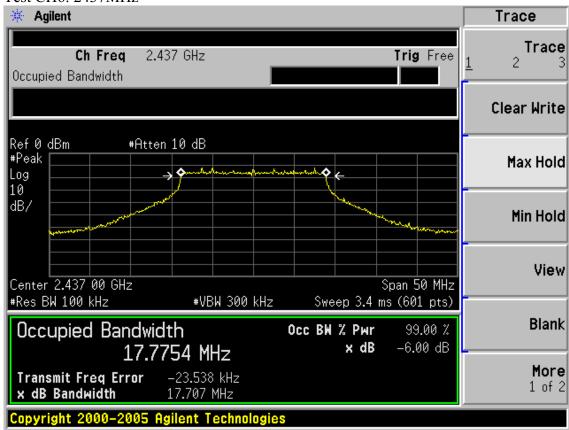


Test Mode: IEEE 802.11n HT20

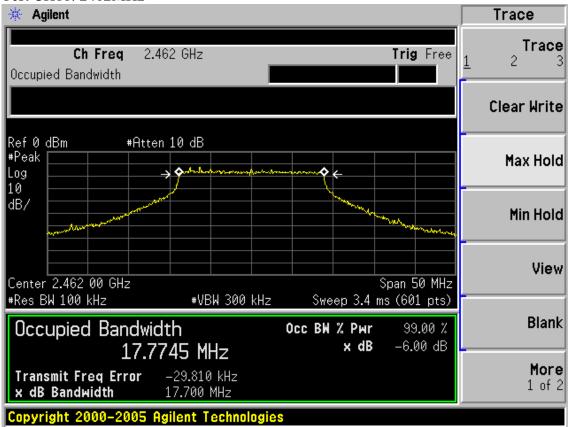
Test CH1: 2412MHz



Test CH6: 2437MHz

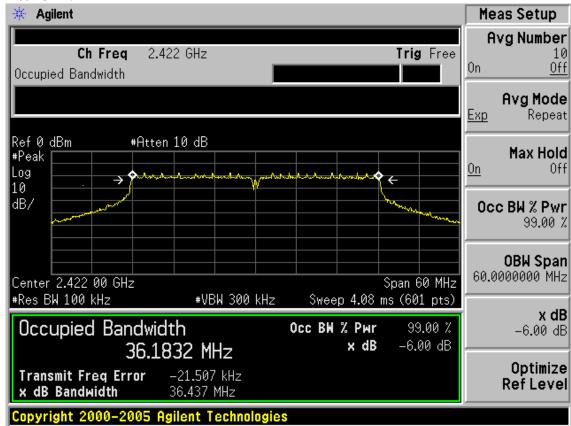


Test CH11: 2462MHz

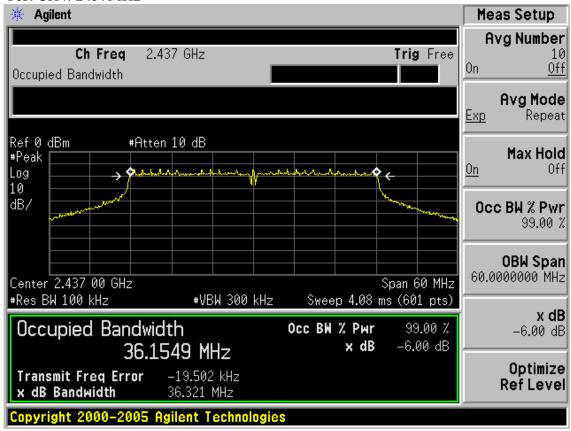


Test Mode: IEEE 802.11n HT40

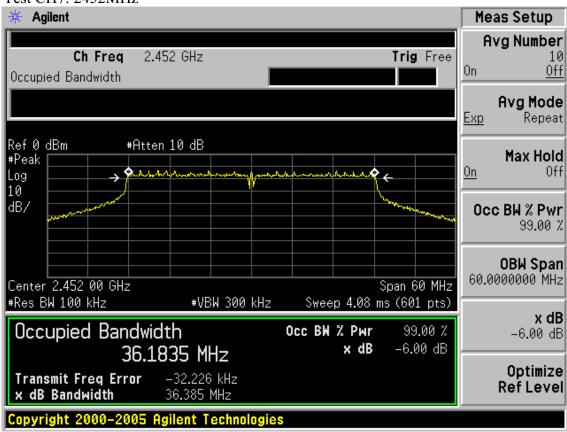
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



### 8. OUTPUT POWER TEST

## 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	Oct.20.09	1Year
2	Power sensor	Anritsu	MA2491A	0033005	Oct.20.09	1Year
3.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08,10	1Year
5.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year

### 8.2. Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

#### 8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is above 6dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So the channel power measure function of Spectrum Analyzer was used to measure out the PK output power of each test modes'

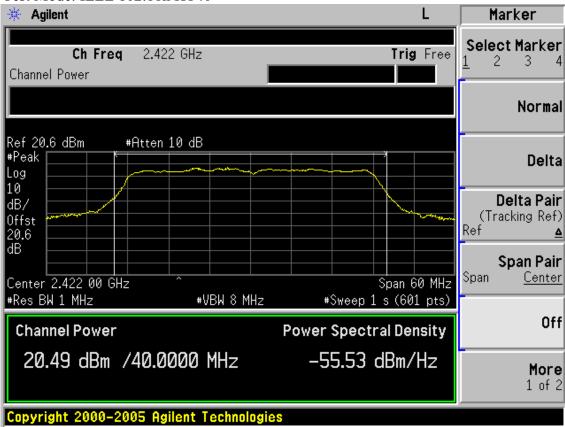
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

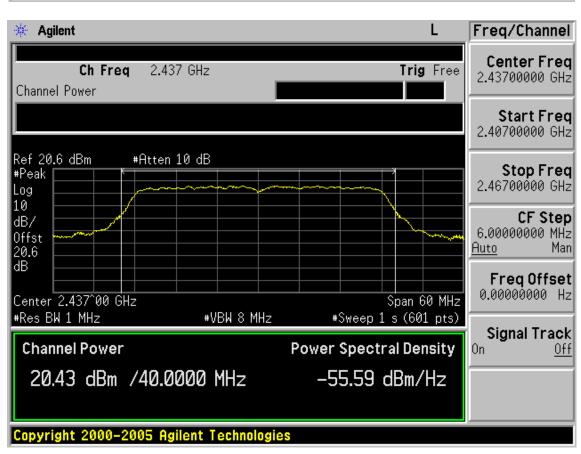
## 8.4. Test Results

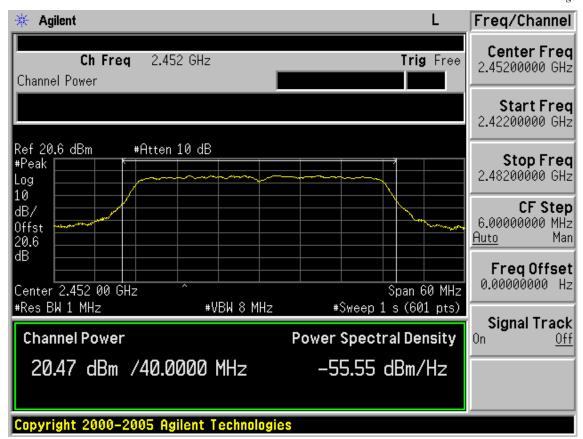
EUT: Wireless Lite-N USB Adapter						
M/N: PW-DN427	M/N: PW-DN427					
Test date:2010-07-23 Pressure:100.6 kpa Humidity:60%						
Tested by: Sunny-Lu Test site: RF site Temperature: 25°C						

Cable loss: 0.6	6dB	Attenuator loss: 20 dB	Antenna Gain: 2.65 dBi			
Test Mode	СН	Peak output Power ( dBm )	Limit (dBm)			
	CH1	22.48	30			
11b	СН6	22.87	30			
	CH11	22.92	30			
	CH1	21.06	30			
11g	СН6	21.34	30			
	CH11	21.36	30			
11	CH1	20.89	30			
11n HT20	CH6	21.18	30			
П120	CH11	21.22	30			
11	CH1	20.49	30			
11n HT40	CH4	20.43	30			
11140	CH7	20.47	30			
Conclusion: PASS						









### 9. POWER SPECTRAL DENSITY TEST

## 9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 10	1Year

### 9.2. Limit

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

#### 9.3. Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.

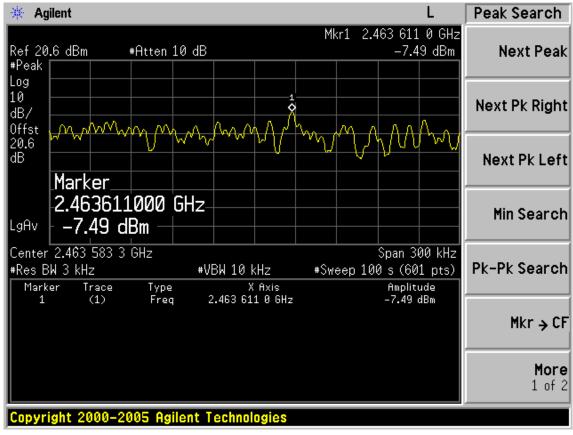
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

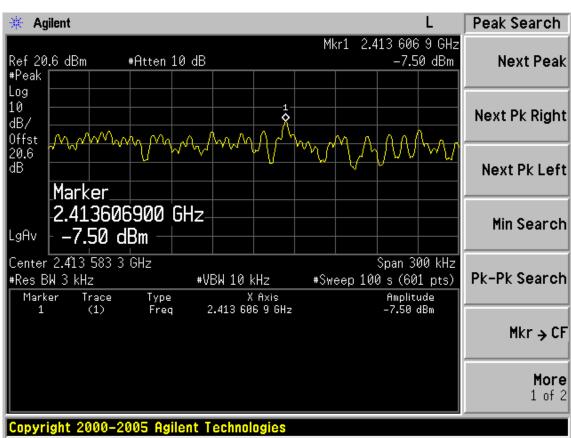
### 9.4. Test Results

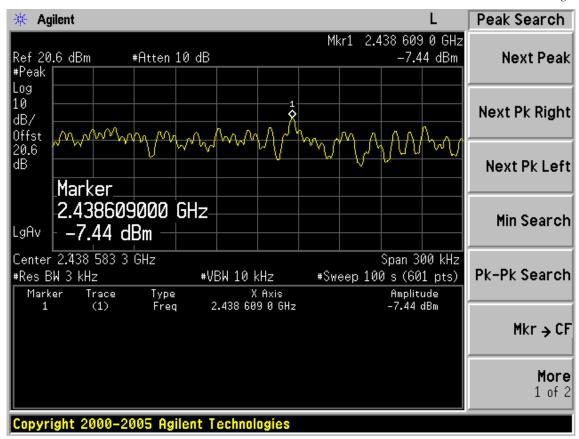
EUT: Wireless Lite-N USB Adapter						
M/N: PW-DN427	M/N: PW-DN427					
Test date:2010-07-23	Humidity:60%					
Tested by: Sunny-Lu Test site: RF site Temperature: 26°C						

Cable loss:	0.6 dB	Attenuator loss: 20 dB	Antenna Gain: .65 dBi			
Test Mode	СН	Power density (dBm/3KHz)	Limit (dBm/3KHz)			
	CH1	-7.50	8			
11b	CH6	-7.44	8			
	CH11	-7.49	8			
	CH1	-14.14	8			
11g	CH6	-13.85	8			
	CH11	-13.89	8			
11	CH1	-14.42	8			
11n HT20	CH6	-13.93	8			
П120	CH11	-14.16	8			
11	CH1	-17.33	8			
11n HT40	CH4	-17.37	8			
11140	CH7	-17.14	8			
Conclusion: PASS						

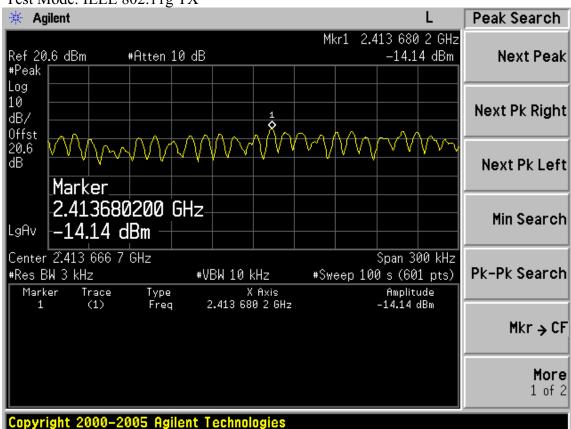


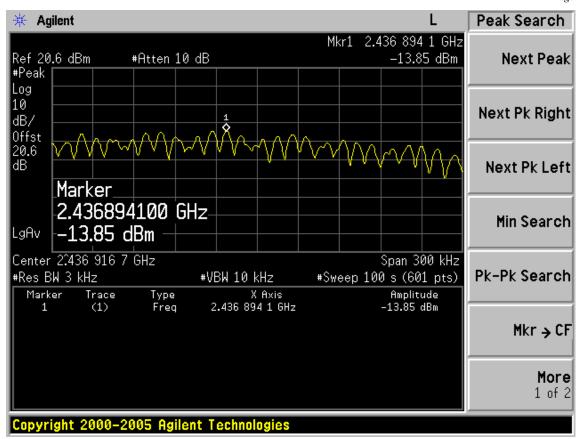


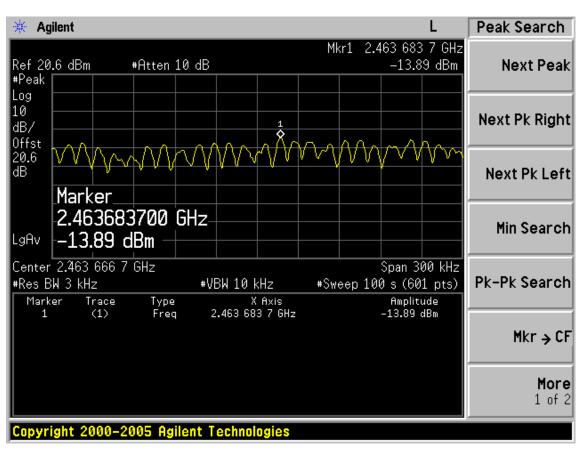




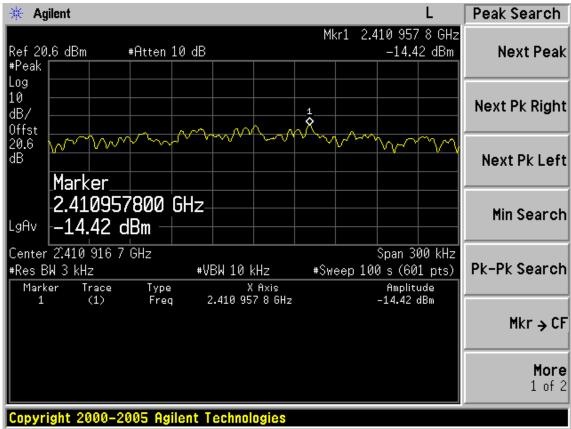


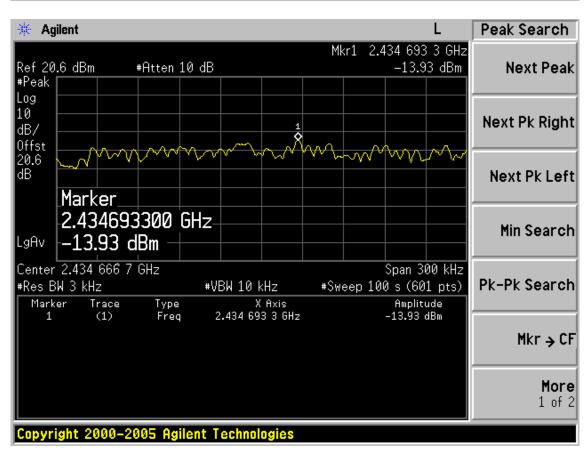


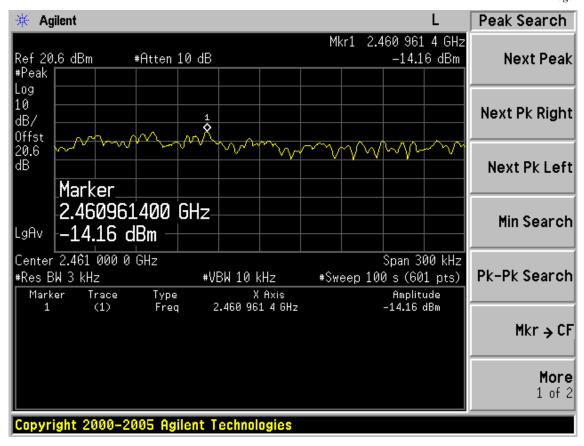




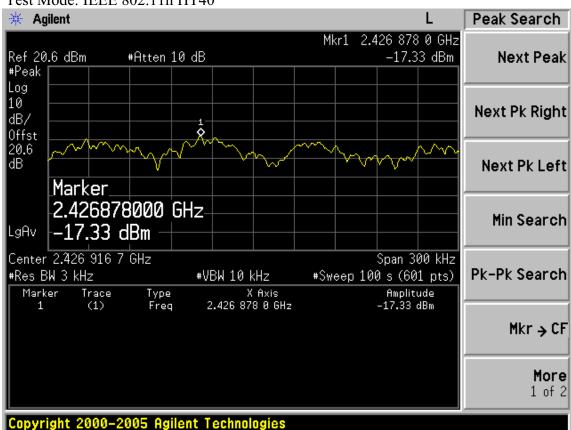


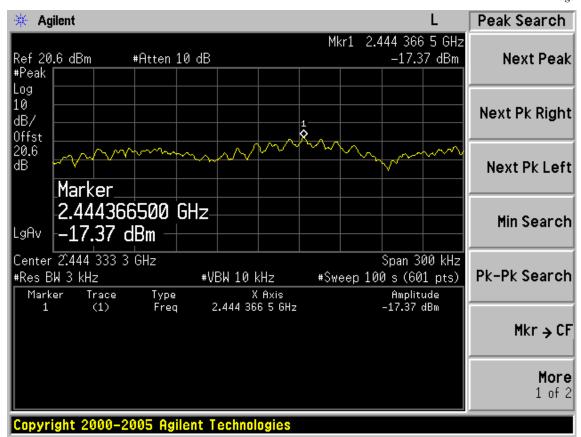


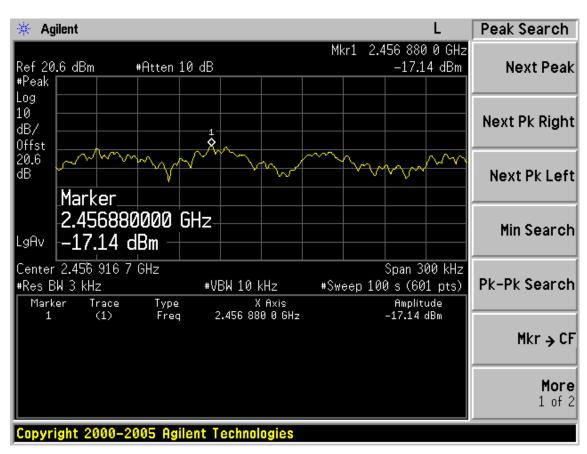












## 10. ANTENNA REQUIREMENT

### 10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 10.2 ANTENNA CONNECTED CONSTRUCTION

The transmit antennas used for this product is integrated PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.65dBi.

# 11.DEVIATION TO TEST SPECIFICATIONS

[NONE]