

APPLICATION FOR CERTIFICATION
Class II PERMISSIVE CHANGE
On Behalf of
KARBONSTREAM CORPORATION
Karbonpad
Model No. : 26380
FCC ID : N8A26380
Brand: Karbonpad

Prepared for : KARBONSTREAM CORPORATION
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Date of Report : Aug. 23, 2012

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TEST REPORT CERTIFICATION (Class II Permissive Change)

Applicant : KARBONSTREAM CORPORATION
 Manufacturer : INVENTEC BESTA CO., LTD
 EUT Description : Karbonpad
 FCC ID : N8A26380
 (A) Model No. : 26380
 (B) Serial No. : N/A
 (C) Brand : Karbonpad
 (D) Power Supply : DC 3.7V
 (E) Test Voltage : DC 3.7V (Via Battery)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2011
AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits.

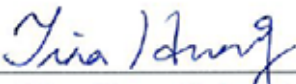
The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

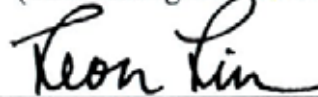
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

This report is base on report of EM-F1010368.

Date of Test : Aug. 17 ~ 21, 2012

Date of Report : Aug. 23, 2012

Producer : 
 (Tina Huang/Administrator)

Signatory : 
 (Leon Liu/Deputy General Manager)

1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Revision Summary	Report No.
0	May 15, 2012	Original Report.	EM-F1010368
Rev. A	Aug. 23, 2012	1. To add a DC jack for extra way charging. 2. To remove CMOS power regulator. 3. Changed MCU to MSP430AFE232IPW. 4. Supplementary test data are recorded in this report.	EM-F1010695

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Karbonpad
Model Number	:	26380
Serial Number	:	N/A
FCC ID	:	N8A26380
Applicant	:	KARBONSTREAM CORPORATION 15 Toronto St., Ste. 400 Toronto M5C 2E3 Ontario Canada
Manufacturer	:	INVENTEC BESTA CO., LTD 10FL., No.36, Lane513, Rui Guang Road, Nei Hu Dist., Taipei114, Taiwan, R.O.C
Fundamental Range	:	2412MHz ~ 2462MHz
Radio Technology	:	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11g/n-HT20/n-HT40: OFDM Modulation 1T1R, (BPSK/QPSK/16QAM/64QAM)
Data Transfer Rate	:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/48/54Mbps 802.11n: up to 150Mbps
Antenna Gain	:	3.12dBi (Peak)
Battery	:	Crystal Power Technology Co., Ltd. M/N D556095Q01, 3.7V 3550mAh
Date of Receipt of Sample	:	Aug. 08, 2012
Date of Test	:	Aug. 17 ~ 21, 2012

Information for Class II Permissive:

1. The EUT is an additional version with original FCC ID: N8A26380
2. The difference with original report are as:
 - (a) To add a DC jack for extra way charging.
 - (b) To remove CMOS power regulator.
 - (c) Changed MCU to MSP430AFE232IPW
3. The EUT were re-measured with the radiated emission (Transmitting mode) and maximum peak output power measurement, the test data are reported in this report of EM-F1010695.
4. This report is based on report of EM-F1010368

2.2. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	DBPSK	1	16.03
1	DQPSK	2	15.92
1	CCK	5.5	15.95
1	CCK	11	15.98

802.11g			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	6	12.95
1	BPSK	9	12.91
1	QPSK	12	12.83
1	QPSK	18	12.86
1	16-QAM	24	12.83
1	16-QAM	36	12.90
1	64-QAM	48	12.79
1	64-QAM	54	12.90

802.11n-HT20			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	7.2 (MCS0)	13.00
1	QPSK	14.4 (MCS1)	12.91
1	QPSK	21.7 (MCS2)	12.97
1	16-QAM	28.9 (MCS3)	12.95
1	16-QAM	43.3 (MCS4)	12.91
1	64-QAM	57.8 (MCS5)	12.93
1	64-QAM	65.0 (MCS6)	12.88
1	64-QAM	72.2 (MCS7)	12.96

802.11g-HT40			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
3	BPSK	15 (MCS0)	9.94
3	QPSK	30 (MCS1)	9.90
3	QPSK	45 (MCS2)	9.87
3	16-QAM	60 (MCS3)	9.82
3	16-QAM	90 (MCS4)	9.93
3	64-QAM	20 (MCS5)	9.85
3	64-QAM	135 (MCS6)	9.88
3	64-QAM	150 (MCS7)	9.87

2.3. Test Configuration for Each Test Item

Test Item	802.11b	802.11g	802.11n-HT20	802.11n-HT40
	Data Rate for Test(Mbps)			
Peak Output Power	1	6	7.2	15

2.4. Tested Supporting System Details

2.4.1. NOTEBOOK PC

Model Number	: N20A Series
Serial Number	: WB200903001
Manufacturer	: ASUS
USB to RS232 Cable (with Jig board)	: Non-Shielded, Detachable, 1.2m
AC Adapter	: ASUS, M/N SADP-65NB BB
	DC Cord: Non-Shielded, Undetachable, 1.8m
	Bonded a ferrite core
AC Power Cord	: Non-Shielded, Detachable, 1.8m

2.5. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**
EMC Department
 No. 53-11, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.

Test Location & Facility (AC) : **Semi-Anechoic Chamber**
 No. 53-11, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.
 May 14, 2009 Renewal on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

2.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
Maximum peak output power	± 0.33dBm

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

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

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 12'	Aug. 06, 13'
2.	Test Receiver	R & S	ESCS30	100339	Mar. 08, 12'	Mar. 07, 13'
3.	Amplifier	HP	8447D	2944A06305	Feb. 13, 12'	Feb. 12, 13'
4.	Log Periodic Antenna	Schwarzbeck	UHALP 9108-A	0810	Mar. 03, 12'	Mar. 02, 13'
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 03, 12'	Mar. 02, 13'

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

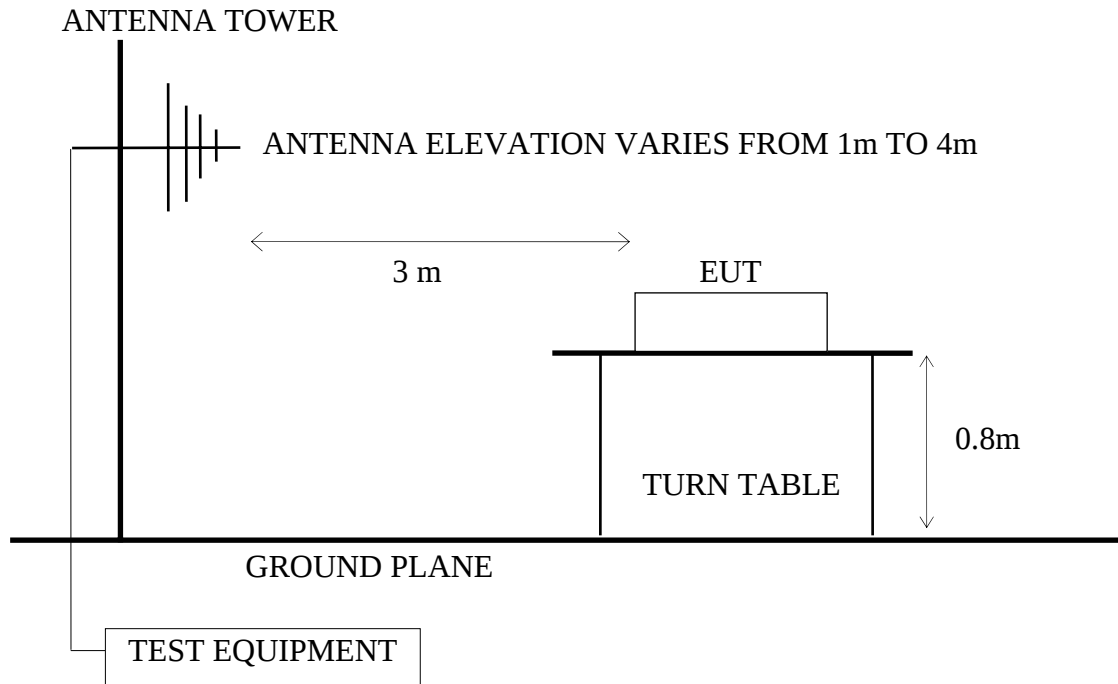
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 12'	Aug. 06, 13'
2.	Test Receiver	R & S	ESCS30	100339	Mar. 08, 12'	Mar. 07, 13'
3.	Amplifier	HP	8449B	3008A00529	Dec. 09, 11'	Dec. 08, 12'
4.	Horn Antenna	EMCO	3115	9112-3775	May 09, 12'	May 08, 13'
5.	Horn Antenna	EMCO	3116	2653	Oct. 07, 11'	Oct. 06, 12'
6.	2.4GHz Notch Filter	EWT	EWT-14-007 0-R1	G2	Dec. 05, 11'	Dec. 04, 12'
7.	3.5GHz High Pass Filter	HP	84300-80038	005	Jan. 04, 12'	Jan. 03, 13'

3.2. Test Setup

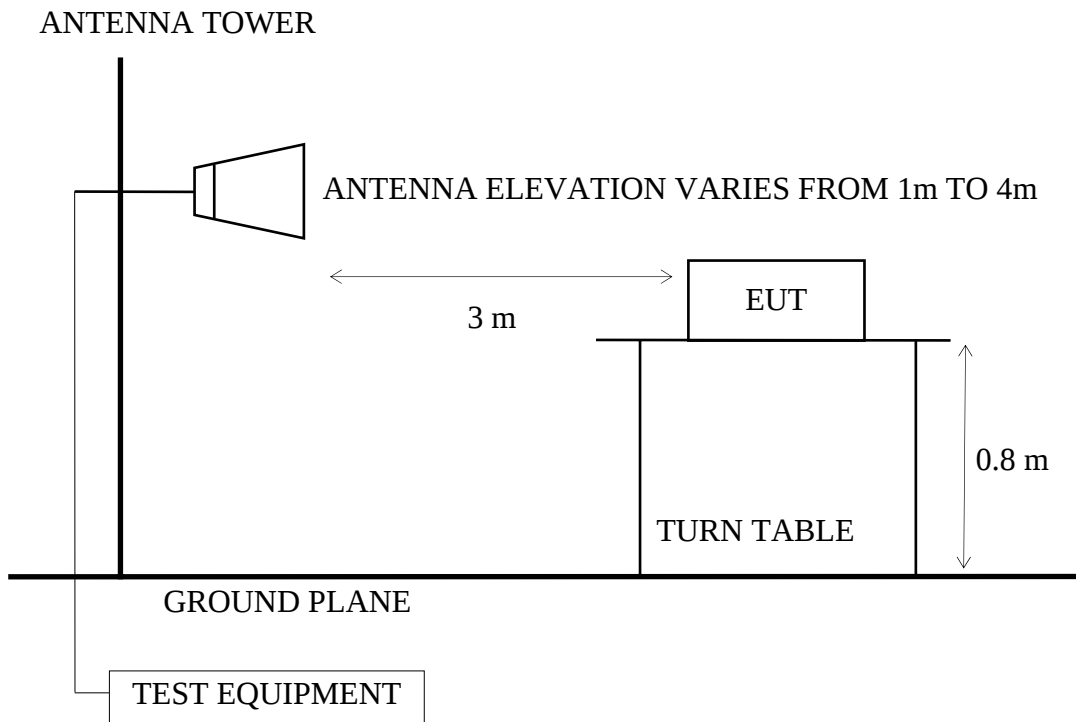
3.2.1. Block Diagram of connection between EUT and simulators

KARBONPAD (EUT)

3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 - (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
 - (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

- 3.4.1. Set up the EUT (Karbonpad) as shown on 3.2.
- 3.4.2. To turn on the power of all equipments.
- 3.4.3. The EUT was set the Notebook PC using test program “hyper terminal”.
- 3.4.4. The EUT supports 802.11b/g/n-HT20/n-HT40 modes, we performed pre-scan high, middle, low channels for each mode for spurious emission and listed the worst channel of each mode in test report.

The worst channel of each mode as following:

No.	Type of Network	Test Mode	Channel
1.	DTS 802.11b	Transmit	CH 1
2.	DTS 802.11g		CH 1
3.	DTS 802.11n-HT20		CH 1
4.	DTS 802.11n-HT40		CH 3

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna could be moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz. (For 30MHz to 1000MHz)

30MHz to 1000MHz was measured with Quasi-Peak detector. Pursuant to ANSI 4.2.2, peak detector is an alternate option for frequency from 30MHz to 1000MHz.

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked.

Above 1GHz was measured with peak and average detector. For frequency from 4GHz to 25GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

Pursuant to ANSI C63.4 8.3.1.2, when peak value complies with the average limit, we didn't perform measurement in average detector.

3.6. Radiated Emission Measurement Results

PASSED.

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

EUT : Karbonpad M/N : 26380

Test Date : Aug. 21, 2012 Temperature : 25 Humidity : 60%

The EUT emitted the fundamental frequency with data code at the stand, side and lie conditions.

For Frequency Range 30MHz~1000MHz:

The EUT select **worst position “lie”** and with following test modes was performed during this section testing and all the test results are listed in section 3.6.1.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 1	2412MHz	Transmit	# 2	# 1
2.	802.11g	CH 1	2412MHz		# 1	# 2
3.	802.11n-HT20	CH 1	2412MHz		# 1	# 2
4.	802.11n-HT40	CH 3	2422MHz		# 2	# 1

* Above all final readings were measured with Peak detector.

For Frequency above 1GHz:

The EUT select **worst position “lie”** and with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
					Peak	Peak
1.	802.11b	CH 1	2412MHz	Transmit	--(Note3)	# 5
2.	802.11g	CH 1	2412MHz		# 3	# 4
3.	802.11n-HT20	CH 1	2412MHz		# 3	# 4
4.	802.11n-HT40	CH 3	2422MHz		# 3	# 4

Note: 1. Above all final readings were measured with Peak detector.

2. For measurements above 1GHz to 4GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement. (According to ANSI C63.4-2003 section 8.3.1.2)

3. There is no signal be found at vertical polarization above 1GHz.

4. The emissions (up to 25GHz) not reported are too low to be measured.

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 6	2412MHz	Transmit	# 1, # 2	# 3, # 4
2.		CH 11	2462MHz		# 7, # 8	# 5, # 6
3.	802.11g	CH 6	2412MHz	Transmit	# 1, # 2	# 3, # 4
4.		CH 11	2462MHz		# 7, # 8	# 5, # 6
5.	802.11n-HT20	CH 6	2412MHz	Transmit	# 1, # 2	# 3, # 4
6.		CH 11	2462MHz		# 7, # 8	# 5, # 6
7.	802.11n-HT40	CH 3	2422MHz	Transmit	# 1, # 2	# 3, # 4
8.		CH 9	2452MHz		# 7, # 8	# 5, # 6

3.6.1. Frequency Range 30-1000MHz

802.11b, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	166.770	20.96	2.70	3.29	26.95	43.50	16.55	QP
2	242.430	23.23	3.40	7.30	33.94	46.00	12.06	QP
3	390.840	17.50	4.80	10.92	33.22	46.00	12.78	QP
4	717.730	22.57	6.55	1.94	31.06	46.00	14.94	QP

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

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	51.340	15.96	1.50	7.67	25.13	40.00	14.87	QP
2	166.770	20.96	2.70	2.59	26.25	43.50	17.25	QP
3	242.430	23.23	3.40	0.56	27.20	46.00	18.80	QP
4	390.840	17.50	4.80	2.41	24.71	46.00	21.29	QP
5	515.000	19.97	6.80	1.12	27.89	46.00	18.11	QP

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

802.11g, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	166.770	20.96	2.70	3.41	27.07	43.50	16.43	QP
2	244.370	23.40	3.50	8.72	35.62	46.00	10.38	QP
3	288.020	25.85	3.80	6.25	35.90	46.00	10.10	QP
4	390.840	17.50	4.80	12.44	34.74	46.00	11.26	QP
5	502.390	19.00	6.60	12.50	38.09	46.00	7.91	QP
6	722.580	22.19	6.50	3.10	31.79	46.00	14.21	QP

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

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	209.450	21.81	3.16	5.87	30.83	43.50	12.67	QP
2	244.370	23.40	3.50	0.48	27.38	46.00	18.62	QP
3	390.840	17.50	4.80	2.35	24.65	46.00	21.35	QP
4	498.510	18.79	6.50	2.03	27.32	46.00	18.68	QP

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

802.11n-HT20, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11n HT-20)

	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	166.770	20.96	2.70	2.80	26.46	43.50	17.04	QP
2	242.430	23.23	3.40	9.85	36.49	46.00	9.51	QP
3	390.840	17.50	4.80	12.22	34.52	46.00	11.48	QP
4	509.180	19.29	6.80	10.68	36.77	46.00	9.23	QP
5	714.820	22.95	6.60	2.22	31.77	46.00	14.23	QP
6	963.140	26.63	7.60	0.82	35.05	54.00	18.95	QP

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

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11n HT-20)

	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	166.770	20.96	2.70	2.82	26.48	43.50	17.02	QP
2	242.430	23.23	3.40	1.34	27.97	46.00	18.03	QP
3	504.330	19.02	6.62	3.17	28.81	46.00	17.19	QP
4	963.140	26.63	7.60	-1.16	33.07	54.00	20.93	QP

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

802.11n-HT40, Transmit, Frequency: 2422MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2422 (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	166.770	20.96	2.70	3.31	26.97	43.50	16.53	QP
2	242.430	23.23	3.40	10.35	36.98	46.00	9.02	QP
3	288.020	25.85	3.80	6.74	36.39	46.00	9.61	QP
4	390.840	17.50	4.80	11.95	34.25	46.00	11.75	QP
5	501.420	18.95	6.52	9.27	34.75	46.00	11.25	QP
6	715.790	22.74	6.55	0.80	30.10	46.00	15.90	QP

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

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2422 (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	166.770	20.96	2.70	4.66	28.32	43.50	15.18	QP
2	242.430	23.23	3.40	1.13	27.77	46.00	18.23	QP
3	490.750	18.58	6.30	1.91	26.79	46.00	19.21	QP
4	963.140	26.63	7.60	-0.30	33.93	54.00	20.07	QP

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

3.6.2. Above 1GHz Frequency Range Measurement Results

802.11b Transmit, Frequency: 2412MHz

Site no.	: A/C Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115(4927)	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: E4446A 25°C/60%		Vic Fong
EUT	: 26380		
Power Rating	: DC3.7V		
Test Mode	: TX2412 (802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	3219.880	30.80	7.37	4.39	42.56	54.00	11.44	Peak

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

802.11g, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(4927)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 25°C/60%
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11g)

Data no. : 3
 Ant. pol. : HORIZONTAL
 Vic Fong

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1611.520	26.14	6.21	6.18	38.54	54.00	15.46	Peak

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

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(4927)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 25°C/60%
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11g)

Data no. : 4
 Ant. pol. : VERTICAL
 Vic Fong

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1608.160	26.14	6.21	6.87	39.22	54.00	14.78	Peak
1	3219.880	30.80	7.37	4.81	42.98	54.00	11.02	Peak

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

802.11n-HT20, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1608.160	26.14	6.21	5.97	38.32	54.00	15.68	Peak

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

Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2412 (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1608.160	26.14	6.21	5.56	37.91	54.00	16.09	Peak
1	3219.880	30.80	7.37	4.88	43.05	54.00	10.95	Peak

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

802.11n-HT40, Transmit, Frequency: 2422MHz

Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2422 (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1843.360	27.03	6.67	8.90	42.60	54.00	11.40	Peak

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

Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 25°C/60% Vic Fong
 EUT : 26380
 Power Rating : DC3.7V
 Test Mode : TX2422 (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1843.360	27.03	6.67	8.83	42.53	54.00	11.47	Peak
1	3233.080	30.80	7.38	3.39	41.57	54.00	12.43	Peak

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

3.6.3. Restricted Bands Measurement Results

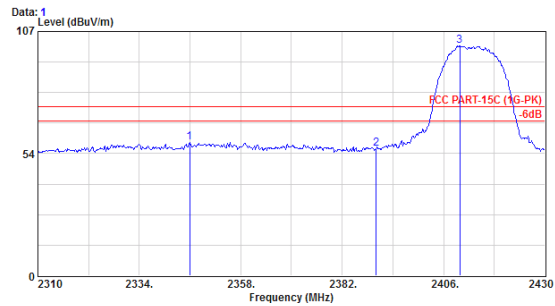
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11b, Transmit, Channel: 01, Frequency: 2412MHz



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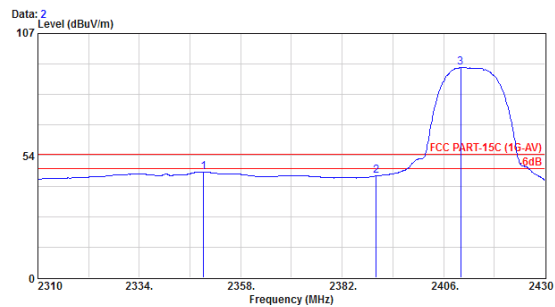
Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ina. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2345.880	28.36	6.29	23.91	58.56	74.00	15.44	Peak
2	2390.040	28.47	6.34	20.89	55.71	74.00	18.29	Peak
3	2409.840	28.51	6.36	65.91	100.79	74.00	-26.79	Peak

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



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Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ina. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2349.240	28.36	6.29	11.76	46.41	54.00	7.59	Average
2	2390.040	28.47	6.34	9.81	44.63	54.00	9.37	Average
3	2410.080	28.51	6.36	57.31	92.18	54.00	-38.18	Average

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

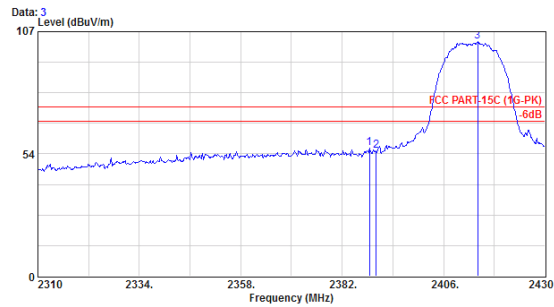
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11b, Transmit, Channel: 01, Frequency: 2412MHz



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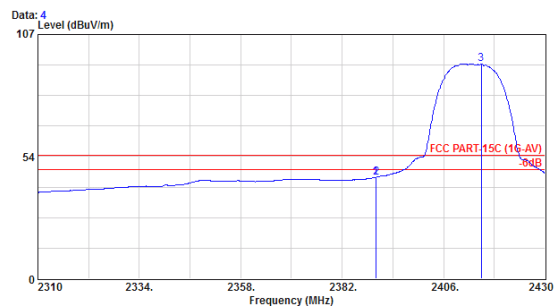
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 26380 Vic Fong
EUT : Karbonpad
Power Rating : DC3.7V
Test Mode : TX2412 (802.11b)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2388.480	28.47	6.34	21.12	55.93	74.00	18.07	Peak
2 2390.040	28.47	6.34	20.10	54.92	74.00	19.08	Peak
3 2414.040	28.51	6.36	67.73	102.60	74.00	-28.60	Peak

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



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Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11b)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2389.920	28.47	6.34	9.61	44.42	54.00	9.58	Average
2 2390.040	28.47	6.34	9.63	44.45	54.00	9.55	Average
3 2414.880	28.51	6.36	59.12	94.00	54.00	-40.00	Average

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

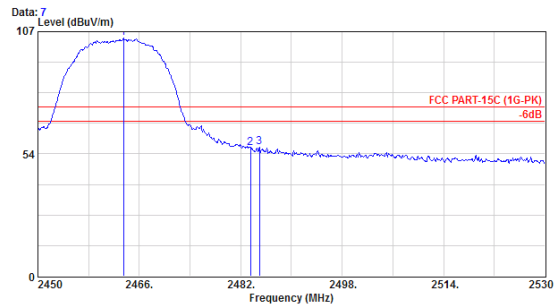
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz



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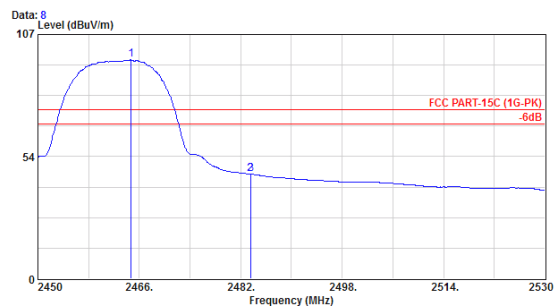
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11b)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.520	28.62	6.42	69.12	104.17	74.00	-30.17	Peak
2 2483.520	28.66	6.45	20.80	55.92	74.00	18.08	Peak
3 2484.960	28.66	6.45	21.26	56.37	74.00	17.63	Peak

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



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Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11b)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2464.720	28.62	6.42	60.78	95.83	74.00	-21.83	Average
2 2483.520	28.66	6.45	10.73	45.85	74.00	28.15	Average
3 2483.600	28.66	6.45	10.71	45.82	74.00	28.18	Average

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

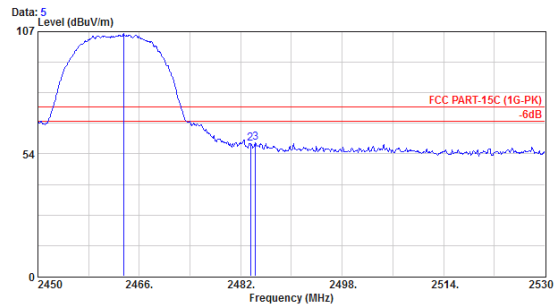
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz



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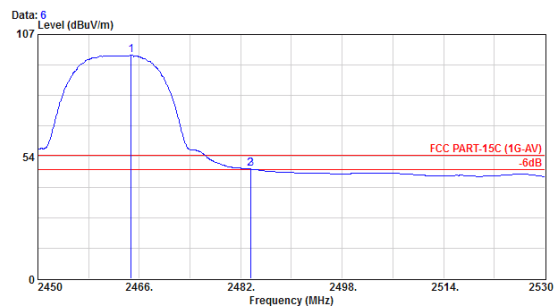
Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11b)

	Ant. Factor	Cable Loss	Emission Reading	Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2463.520	28.62	6.42	71.01	106.06	74.00	-32.06	Peak
2 2483.520	28.66	6.45	22.84	57.96	74.00	16.04	Peak
3 2484.320	28.66	6.45	23.36	59.47	74.00	15.53	Peak

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



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Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11b)

	Ant. Factor	Cable Loss	Emission Reading	Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2464.720	28.62	6.42	62.84	97.89	54.00	-43.89	Average
2 2483.520	28.66	6.45	12.94	48.06	54.00	5.94	Average
3 2483.600	28.66	6.45	12.92	48.03	54.00	5.97	Average

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

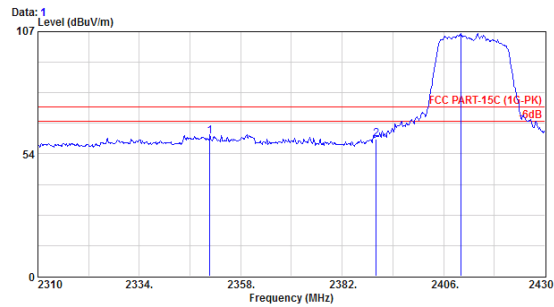
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11g, Transmit, Channel: 01, Frequency: 2412MHz



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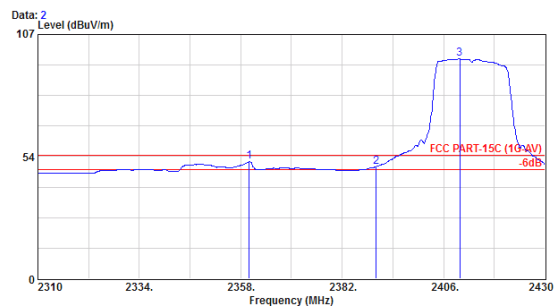
Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11g)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2350.680	28.36	6.29	26.55	61.20	74.00	12.80	Peak
2 2390.040	28.47	6.34	25.33	60.14	74.00	13.86	Peak
3 2410.080	28.51	6.36	71.44	106.31	74.00	-32.31	Peak

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



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Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11g)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2360.040	28.40	6.30	16.57	51.27	54.00	2.73	Average
2 2390.040	28.47	6.34	14.26	49.08	54.00	4.92	Average
3 2409.840	28.51	6.36	61.42	96.30	54.00	-42.30	Average

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

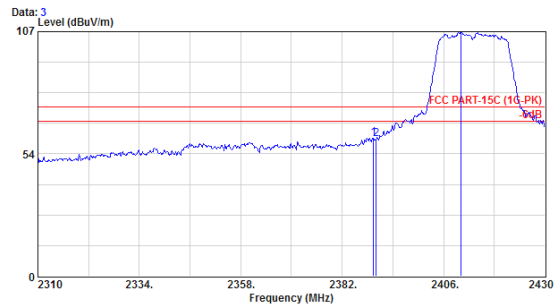
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11g, Transmit, Channel: 01, Frequency: 2412MHz



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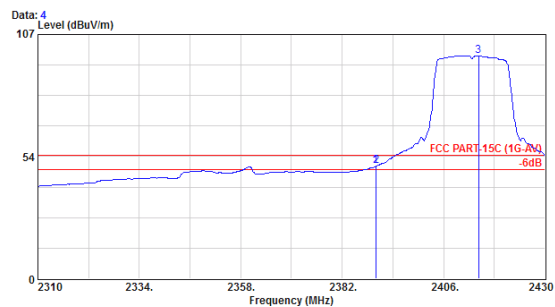
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11g)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2389.440	28.47	6.34	25.59	60.40	74.00	13.60	Peak
2 2390.040	28.47	6.34	24.96	59.78	74.00	14.22	Peak
3 2410.080	28.51	6.36	72.25	107.12	74.00	-33.12	Peak

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



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Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11g)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2389.920	28.47	6.34	14.39	49.20	54.00	4.80	Average
2 2390.040	28.47	6.34	14.46	49.28	54.00	4.72	Average
3 2414.280	28.51	6.36	62.82	97.69	54.00	-43.69	Average

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

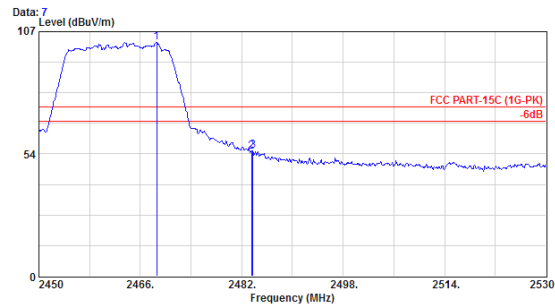
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz



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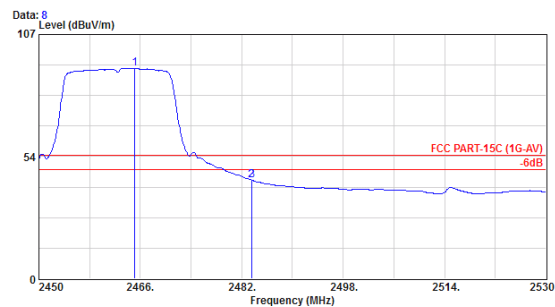
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2468.560	28.62	6.43	67.23	102.29	74.00	-28.29	Peak
2 2483.520	28.66	6.45	19.53	54.65	74.00	19.35	Peak
3 2483.760	28.66	6.45	19.65	54.77	74.00	19.23	Peak

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



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Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2465.120	28.62	6.42	57.07	92.11	54.00	-38.11	Average
2 2483.520	28.66	6.45	8.16	43.28	54.00	10.72	Average
3 2483.600	28.66	6.45	8.10	43.22	54.00	10.78	Average

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

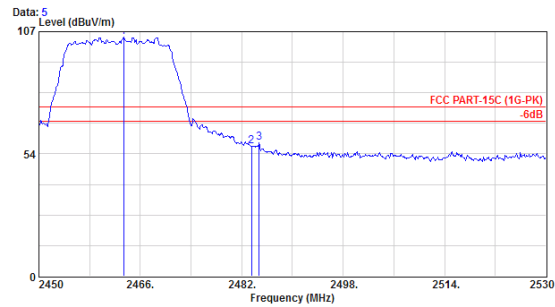
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz



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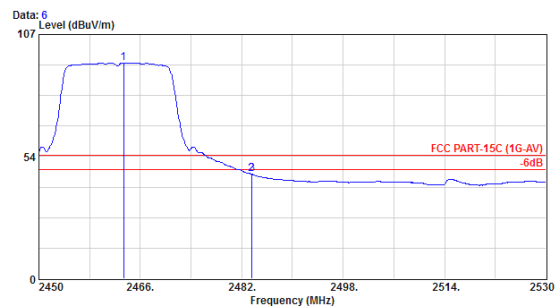
Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11g)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.360	28.62	6.42	69.56	104.61	74.00	-30.61	Peak
2 2483.520	28.66	6.45	21.53	56.65	74.00	17.35	Peak
3 2484.720	28.66	6.45	23.42	59.53	74.00	15.47	Peak

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



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Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11g)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.360	28.62	6.42	59.57	94.62	54.00	-40.62	Average
2 2483.520	28.66	6.45	10.73	45.85	54.00	8.15	Average
3 2483.600	28.66	6.45	10.65	45.76	54.00	8.24	Average

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

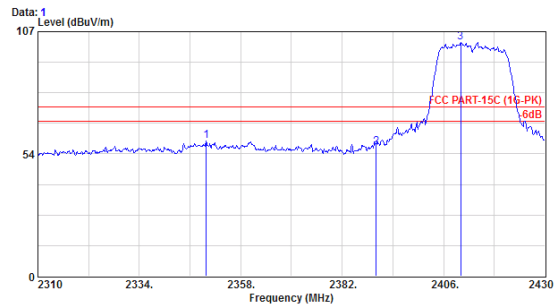
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz



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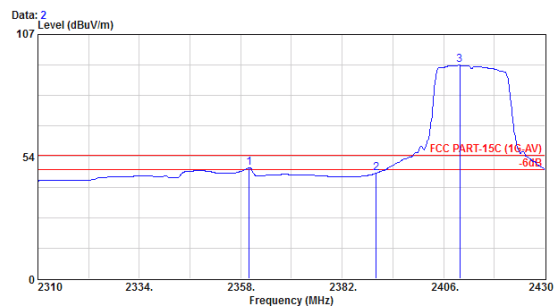
Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11n HT-20)

	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2349.840	28.36	6.29	24.67	59.32	74.00	14.68	Peak
2 2390.040	28.47	6.34	21.78	56.60	74.00	17.40	Peak
3 2410.080	28.51	6.36	57.60	102.47	74.00	-28.47	Peak

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



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Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11n HT-20)

	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2360.040	28.40	6.30	13.87	48.57	54.00	5.43	Average
2 2390.040	28.47	6.34	11.43	46.25	54.00	7.75	Average
3 2409.840	28.51	6.36	58.61	93.49	54.00	-39.49	Average

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

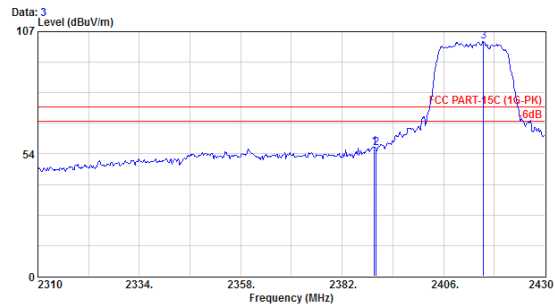
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz



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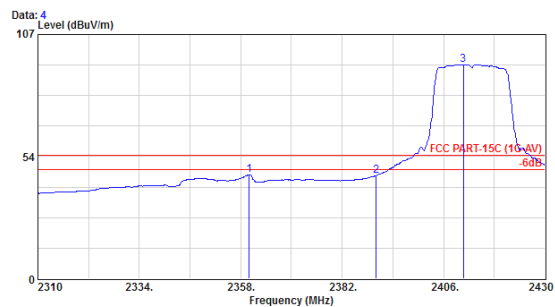
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11n HT-20)

	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2389.680	28.47	6.34	21.82	56.63	74.00	17.37	Peak
2 2390.040	28.47	6.34	21.05	55.87	74.00	18.13	Peak
3 2415.480	28.51	6.36	57.99	102.87	74.00	-28.87	Peak

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



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Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2412 (802.11n HT-20)

	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2360.040	28.40	6.30	10.87	45.57	54.00	8.43	Average
2 2390.040	28.47	6.34	10.39	45.21	54.00	8.79	Average
3 2410.680	28.51	6.36	58.87	93.74	54.00	-39.74	Average

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

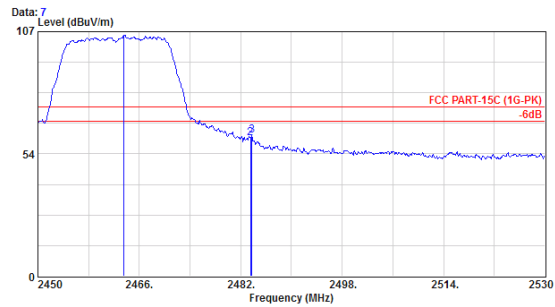
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz



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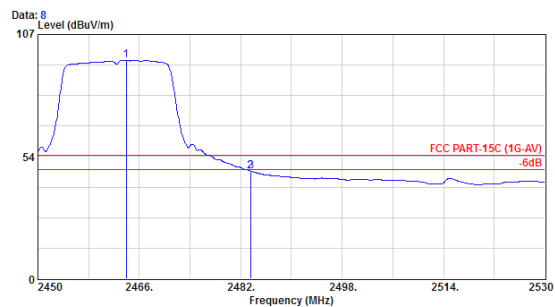
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11n HT-20)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.520	28.62	6.42	70.57	105.62	74.00	-31.62	Peak
2 2483.520	28.66	6.45	25.18	60.30	74.00	13.70	Peak
3 2483.760	28.66	6.45	26.24	61.36	74.00	12.64	Peak

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



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Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11n HT-20)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.920	28.62	6.42	60.57	95.62	54.00	-41.62	Average
2 2483.520	28.66	6.45	12.07	47.19	54.00	6.81	Average
3 2483.600	28.66	6.45	12.03	47.14	54.00	6.86	Average

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

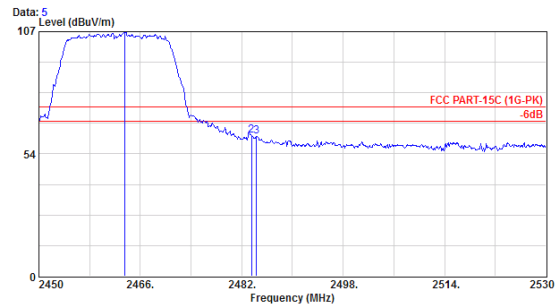
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz



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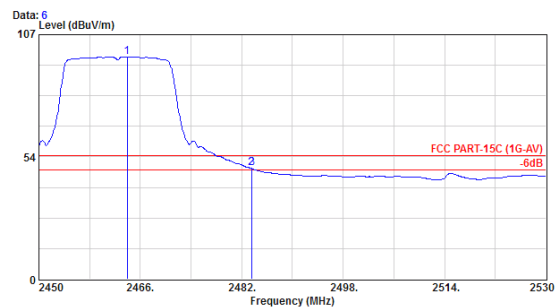
Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11n HT-20)

Freq. (MHz)	Ant. Cable		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)					
1 2463.520	28.62	6.42	72.02	107.07	74.00	-33.07	Peak
2 2483.520	28.66	6.45	26.32	61.44	74.00	12.56	Peak
3 2484.320	28.66	6.45	26.19	61.30	74.00	12.70	Peak

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



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Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2462 (802.11n HT-20)

Freq. (MHz)	Ant. Cable		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)					
1 2463.920	28.62	6.42	62.29	97.34	54.00	-43.34	Average
2 2483.520	28.66	6.45	13.36	48.48	54.00	5.52	Average
3 2483.600	28.66	6.45	13.30	48.41	54.00	5.59	Average

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

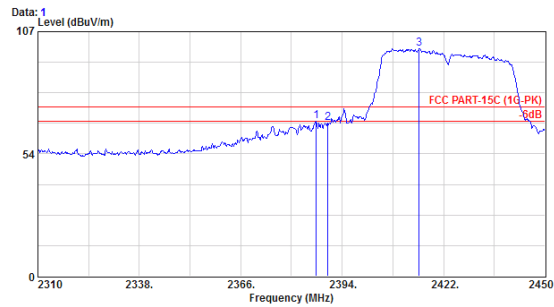
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz



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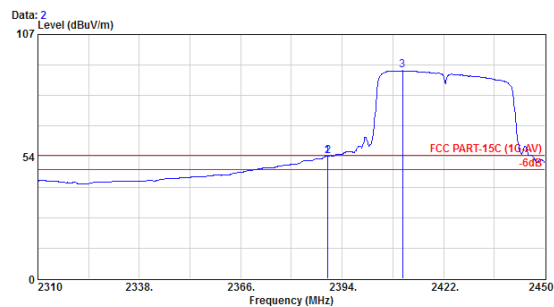
Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2422 (802.11n HT-40)

	Ant. Cable		Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2386.860	28.47	6.33	32.92	67.72	74.00	6.28 Peak
2 2390.080	28.47	6.34	32.21	67.03	74.00	6.97 Peak
3 2415.280	28.51	6.36	64.53	99.41	74.00	-25.41 Peak

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



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Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2422 (802.11n HT-40)

	Ant. Cable		Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2389.940	28.47	6.34	18.93	53.74	54.00	0.26 Average
2 2390.080	28.47	6.34	18.94	53.76	54.00	0.24 Average
3 2410.660	28.51	6.36	56.26	91.13	54.00	-37.13 Average

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

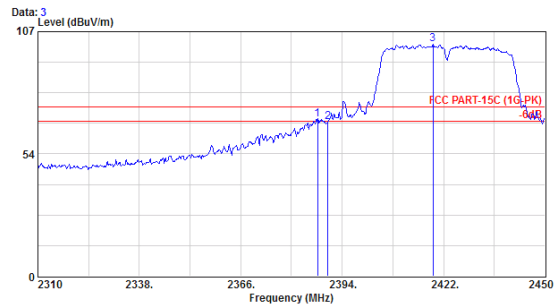
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz



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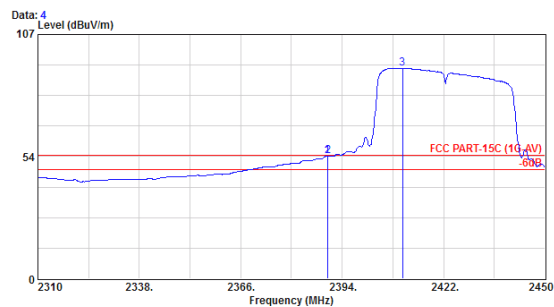
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2422 (802.11n HT-40)

	Ant. Factor	Cable Loss	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2387.280	28.47	6.33	33.68	68.49	74.00	5.51	Peak
2 2390.080	28.47	6.34	32.44	67.26	74.00	6.74	Peak
3 2419.060	28.51	6.37	66.61	101.49	74.00	-27.49	Peak

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



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Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2422 (802.11n HT-40)

	Ant. Factor	Cable Loss	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2389.940	28.47	6.34	18.96	53.77	54.00	0.23	Average
2 2390.080	28.47	6.34	18.98	53.80	54.00	0.20	Average
3 2410.660	28.51	6.36	57.21	92.08	54.00	-38.08	Average

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

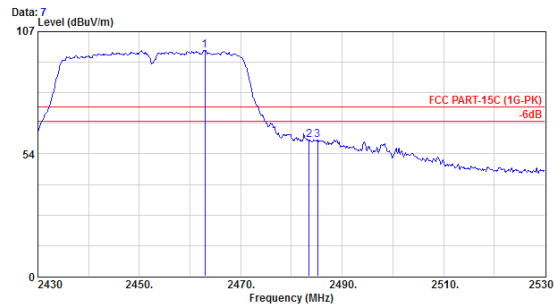
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz



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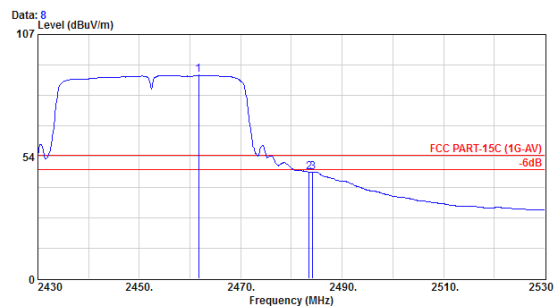
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2452 (802.11n HT-40)

	Ant. Cable		Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2462.900	28.62	6.42	63.83	98.88	74.00	-24.88 Peak
2 2483.500	28.66	6.45	24.46	59.57	74.00	14.43 Peak
3 2485.200	28.66	6.45	24.63	59.74	74.00	14.26 Peak

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



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Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2452 (802.11n HT-40)

	Ant. Cable		Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2461.700	28.62	6.42	54.12	89.17	54.00	-35.17 Average
2 2483.500	28.66	6.45	11.40	46.51	54.00	7.49 Average
3 2484.200	28.66	6.45	11.64	46.75	54.00	7.25 Average

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

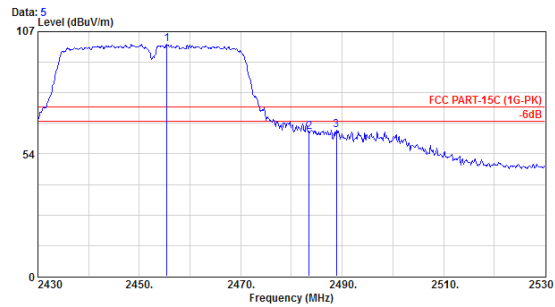
Date of Test : Aug. 21, 2012 Temperature : 25

EUT : Karbonpad Humidity : 60%

Test Mode : 802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz



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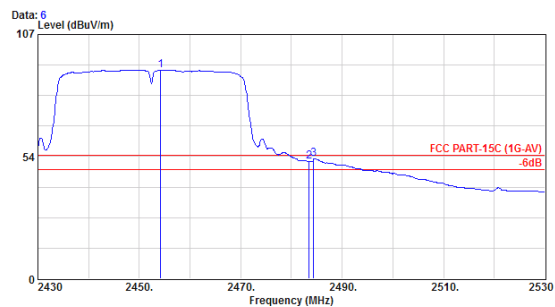
Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2452 (802.11n HT-40)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2455.400	28.62	6.42	66.43	101.47	74.00	-27.47	Peak
2 2483.500	28.66	6.45	28.10	63.22	74.00	10.78	Peak
3 2488.900	28.70	6.45	28.65	62.81	74.00	10.19	Peak

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



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Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C/60% Vic Fong
EUT : 26380
Power Rating : DC3.7V
Test Mode : TX2452 (802.11n HT-40)

	Ant. Cable			Emission			
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2454.200	28.62	6.42	56.41	91.45	54.00	-37.45	Average
2 2483.500	28.66	6.45	16.15	51.26	54.00	2.74	Average
3 2484.400	28.66	6.45	17.41	52.52	54.00	1.48	Average

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

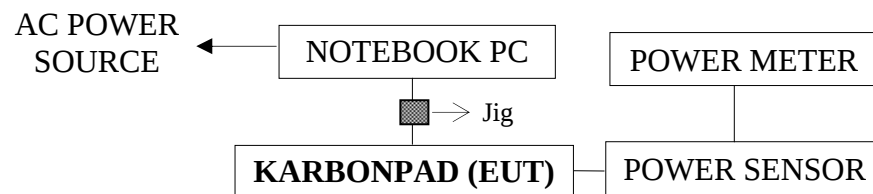
4. MAXIMUM OUTPUT POWER MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Feb. 13, 12'	Feb. 12, 13'
2.	Power Sensor	Anritsu	MA2491A	030873	Feb. 13, 12'	Feb. 12, 13'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

4.4. Operating Condition of EUT

The test program “hyper terminal” was used to enable the EUT to transmit data at different channel frequency individually.

4.5. Test Procedure

The transmitter output was connected to the power sensor and record the reading of power meter.

The measurement guideline was according to KDB 558074 D01.

4.6. Test Results

PASSED. All the test results are listed below.

Test Date: Aug. 17, 2012 Temperature : 26 Humidity : 59%

Mode	Type of Network	Channel	Frequency	Peak Output Power (dBm)	Average Output Power (dBm)	Limit (dBm)	Power Setting
1.	802.11b	CH 1	2412MHz	18.39	16.03	30	24
2.		CH 6	2437MHz	17.91	15.53	30	24
3.		CH 11	2462MHz	17.06	14.72	30	24
4.	802.11g	CH 1	2412MHz	22.30	12.95	30	31
5.		CH 6	2437MHz	21.67	12.65	30	31
6.		CH 11	2462MHz	21.02	11.92	30	31
7.	802.11n-HT20	CH 1	2412MHz	22.36	13.00	30	31
8.		CH 6	2437MHz	21.88	12.57	30	31
9.		CH 11	2462MHz	21.03	11.88	30	31
10.	802.11n-HT40	CH 3	2422MHz	19.88	9.94	30	24
11.		CH 6	2437MHz	19.64	9.69	30	24
12.		CH 9	2452MHz	19.14	9.27	30	24

Note: We presented both peak and average power value for compare with the power indicated in SAR report.

5. DEVIATION TO TEST SPECIFICATIONS

【NONE】