



FCC CLASS II Permissive Change Addendum adding channel 13 to Test Report

**FCC Part 15.247 for DSSS systems/
CANADA RSS-210**

FOR:

WLAN DUAL BAND MINI PCI CARD

MODEL #: BCM94318MPAGH

**BROADCOM CORPORATION
190 MATHILDA PLACE
SUNNYVALE, CA 94086
U.S.A**

**FCC ID: QDS-BRCM1017
IC ID: 4324A-BRCM1017**

**TEST REPORT #: EMC_1099_2005_WLAN
DATE: January 9th, 2006**



TTI-P-G 081/94-A0

Accredited according to **ISO/IEC 17025**



**Bluetooth Qualification
Test Facility
(BQTF)**



FCC listed # 101450

IC recognized # 3925

CETECOM Inc.

411 Dixon Landing Road • Milpitas, CA 95035 • U.S.A.

Phone: + 1 (408) 586 6200 • Fax: + 1 (408) 586 6299 • E-mail: info@cetecomusa.com • <http://www.cetecom.com>

CETECOM Inc. is a Delaware Corporation with Corporation number: 2113686
Board of Directors: Dr. Harald Ansorge, Dr. Klaus Matkey, Hans Peter May



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The following measurements are to add channel 13 (2472 MHz).

1 Measurements

1.1 MAXIMUM PEAK OUTPUT POWER § 15.247 (RADIATED)

1.1.1 LIMIT SUB CLAUSE § 15.247 (b) (1) (2) (3) (4)

Frequency range	RF power output
2400-2483.5 MHz	36dBm EIRP

*limit is based upon antenna gain of less than or equal to 6dBi.

1.1.2 EIRP b MODE:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)
Frequency (MHz)		2472
T _{nom} (23)°C	V _{nom} VDC	19.37
Measurement uncertainty		±0.5dBm

1.1.3 EIRP g MODE:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)
Frequency (MHz)		2472
T _{nom} (23)°C	V _{nom} VDC	21.43
Measurement uncertainty		±0.5dBm

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802.11b Mode:

CETECOM Inc.

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: BCM94318MPAGH

Customer: Broadcom

Operating Mode: Channel-13 (11Mbps) --> 14dBm

Antenna: H

EUT: H(keyboard and screen flat; antenna horizontal)

Test operator: Mark

Voltage: nom.

Comment: EIRP

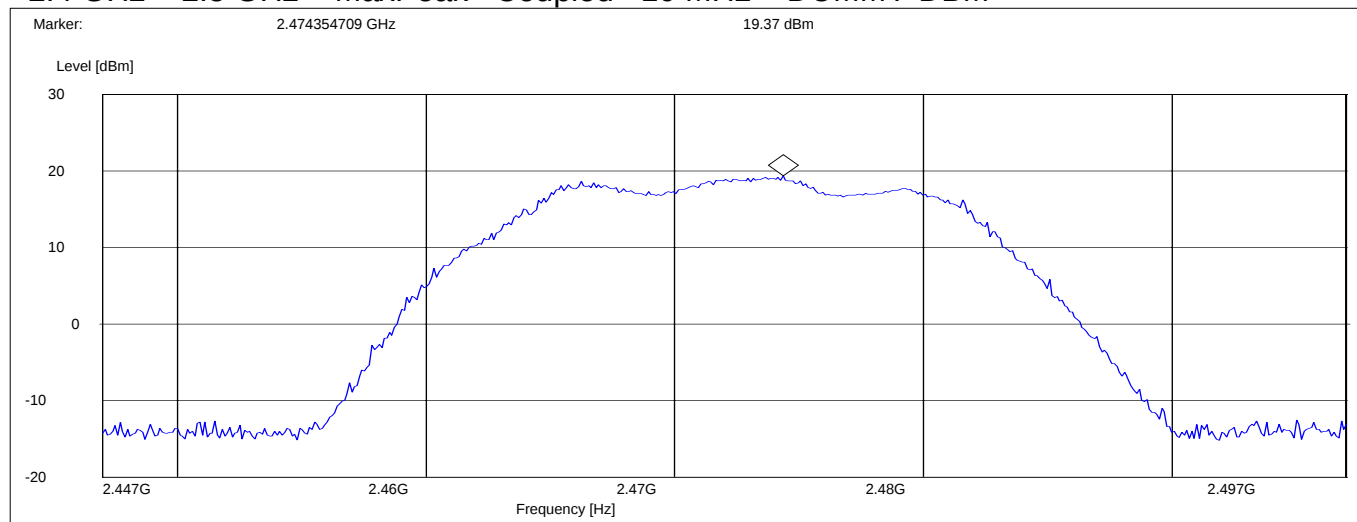
SWEEP TABLE: "EIRP RLAN CH13"

Short Description: EIRP RLAN channel-2472 MHz

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

2.4 GHz 2.5 GHz MaxPeak Coupled 10 MHz DUMMY-DBM



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802.11g Mode:

CETECOM Inc.

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: BCM94318MPAGH

Customer: Broadcom

Operating Mode: Channel-13 (54Mbps) --> 10.5dBm

Antenna: H

EUT: H(keyboard and screen flat; antenna horizontal)

Test operator: Mark

Voltage: nom.

Comment: EIRP

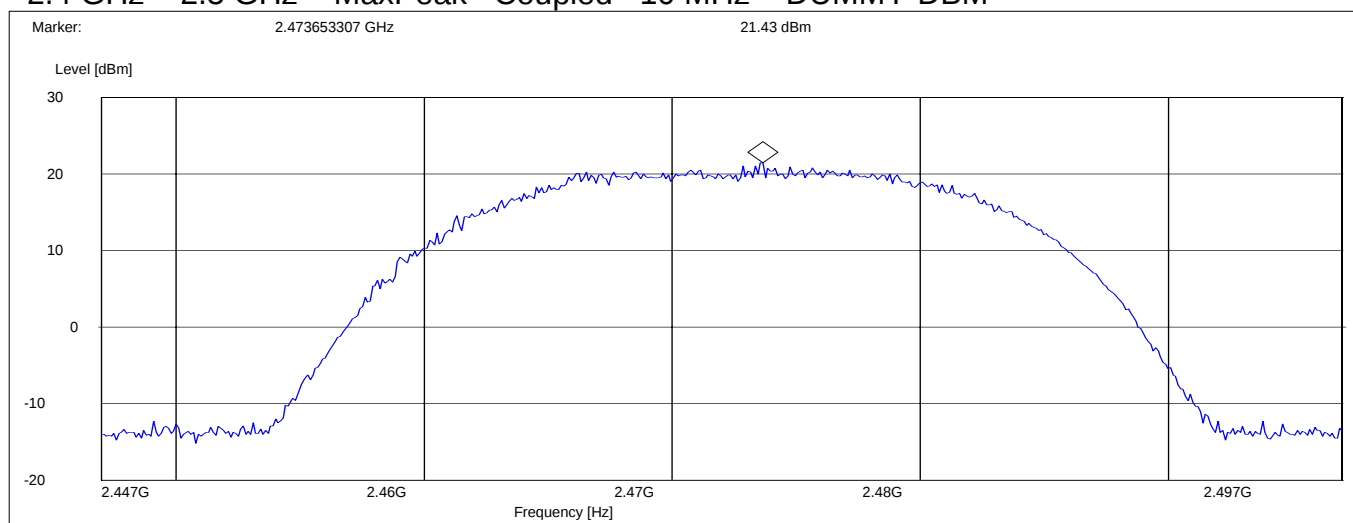
SWEEP TABLE: "EIRP RLAN CH13"

Short Description: EIRP RLAN channel-2472 MHz

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

2.4 GHz 2.5 GHz MaxPeak Coupled 10 MHz DUMMY-DBM



1.2 RESTRICTED BAND EDGE COMPLIANCE RADIATED §15.247/15.205

1.2.1 LIMITS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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)
13.36 - 13.41			

*PEAK LIMIT= 74dBuV

*AVG. LIMIT= 54dBuV

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802.11b Mode Peak:

CETECOM Inc.

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: BCM94318MPAGH

Customer: Broadcom

Operating Mode: Channel-13 (11Mbps) --> 14dBm

Antenna: H

EUT: H(keyboard and screen flat; antenna horizontal)

Test operator: Mark

Voltage: nom.

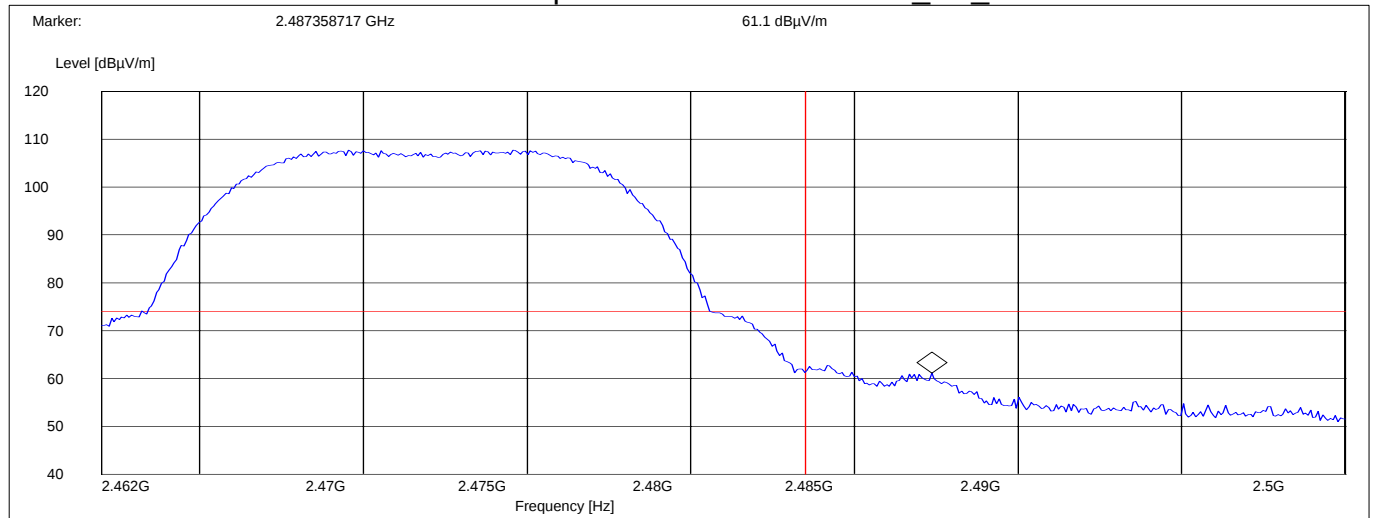
Comment: HBE-peak mode

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

2.5 GHz 2.5 GHz MaxPeak Coupled 1 MHz #326horn_AF_vert



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802.11b Mode Average:

CETECOM Inc.

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: BCM94318MPAGH

Customer: Broadcom

Operating Mode: Channel-13 (1Mbps) --> 14dBm

Antenna: H

EUT: H(keyboard and screen flat; antenna horizontal)

Test operator: Mark

Voltage: nom.

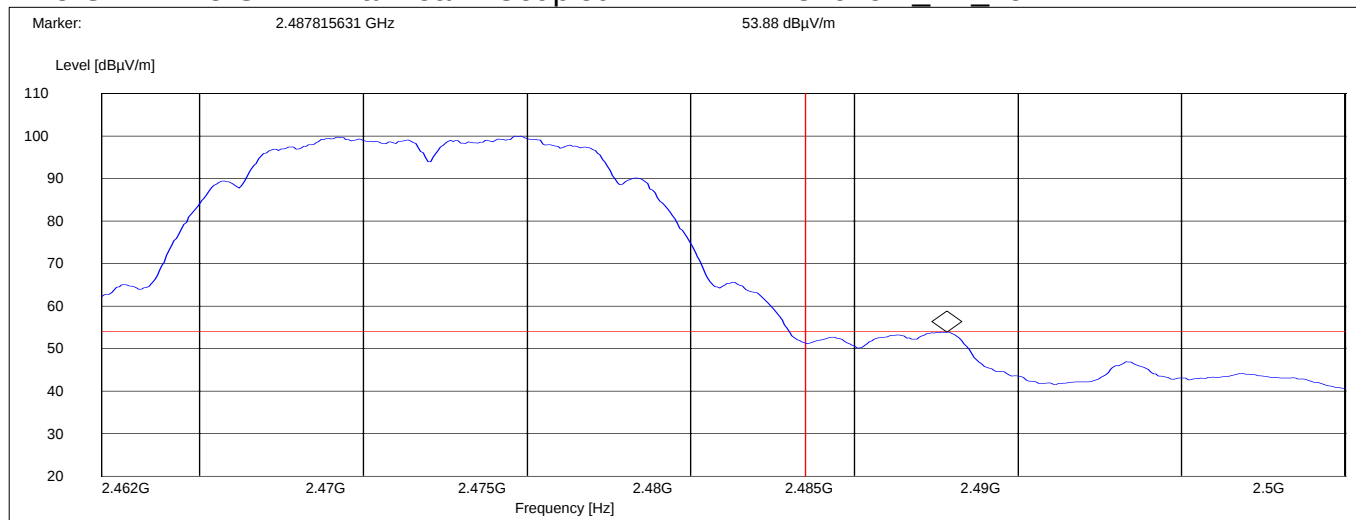
Comment: HBE-average mode

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

2.5 GHz 2.5 GHz MaxPeak Coupled 1 MHz #326horn_AF_horz



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802.11g Mode Peak:

CETECOM Inc.

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: BCM94318MPAGH

Customer: Broadcom

Operating Mode: Channel-13 (54Mbps) --> 10.5dBm

Antenna: H

EUT: H(keyboard and screen flat; antenna horizontal)

Test operator: Mark

Voltage: nom.

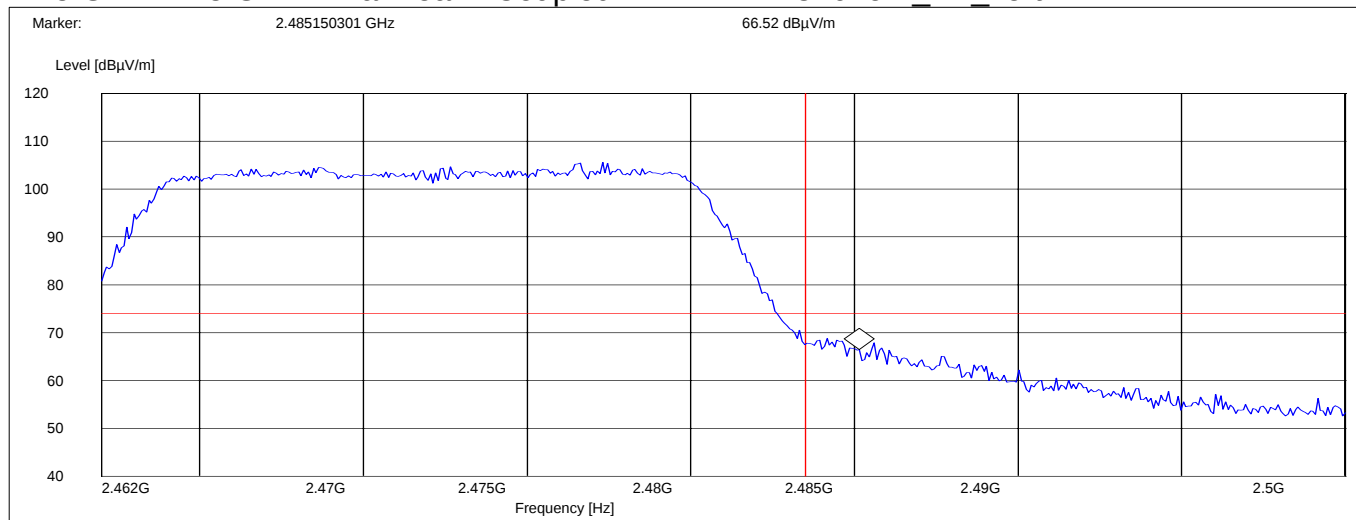
Comment: HBE-peak mode

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

2.5 GHz 2.5 GHz MaxPeak Coupled 1 MHz #326horn_AF_vert



802.11g Mode Average:**CETECOM Inc.****411 Dixon Landing Road, Milpitas CA 95035, USA**

EUT / Description: BCM94318MPAGH

Customer: Broadcom

Operating Mode: Channel-13 (6Mbps) --> 10.5dBm

Antenna: H

EUT: H(keyboard and screen flat; antenna horizontal)

Test operator: Mark

Voltage: nom.

Comment: HBE-average mode

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

