

FCC TEST REPORT

REPORT NO.: RF980604H02G

MODEL NO.: AR5B95, VNT9285BE000, M-WN791N

FCC ID: PPD-AR5B95

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ISSUED: Aug. 30, 2010

APPLICANT: Atheros Communications, Inc.

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Table of Contents

1.	CERTIFICATION	3
2.	SUMMARY OF TEST RESULTS	4
2.1	MEASUREMENT UNCERTAINTY	5
3.	GENERAL INFORMATION	6
3.1	GENERAL DESCRIPTION OF EUT	6
3.2	DESCRIPTION OF TEST MODES	8
3.2.1	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	9
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	11
3.4	DESCRIPTION OF SUPPORT UNITS	12
3.5	CONFIGURATION OF SYSTEM UNDER TEST	12
4.	TEST TYPES AND RESULTS	13
4.1	RADIATED EMISSION MEASUREMENT	13
4.1.1	LIMITS OF RADIATED EMISSION MEASUREMENT	13
4.1.2	TEST INSTRUMENTS	14
4.1.3	TEST PROCEDURES	15
4.1.4	DEVIATION FROM TEST STANDARD	15
4.1.5	TEST SETUP	16
4.1.6	EUT OPERATING CONDITIONS	16
4.1.7	TEST RESULTS (FOR TRANSMITTER PART)	17
4.1.7.1	TEST RESULTS (WITH PIFA ANTENNA)	17
4.1.7.2	TEST RESULTS (WITH DIPOLE ANTENNA)	24
4.1.8	TEST RESULTS (FOR RECEIVER PART)	31
4.1.8.1	TEST RESULTS (WITH PIFA ANTENNA)	31
4.1.8.2	TEST RESULTS (WITH DIPOLE ANTENNA)	33
4.2	MAXIMUM PEAK OUTPUT POWER	35
4.2.1	LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT	35
4.2.2	INSTRUMENTS	35
4.2.3	TEST PROCEDURES	35
4.2.4	DEVIATION FROM TEST STANDARD	35
4.2.5	TEST SETUP	35
4.2.6	EUT OPERATING CONDITIONS	36
4.2.7	TEST RESULTS	37
5.	INFORMATION ON THE TESTING LABORATORIES	38
6.	APPENDIX-A- MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	39



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1. CERTIFICATION

PRODUCT: 802.11n 1x1 PCIe Minicard transceiver

BRAND NAME: Atheros

MODEL NO.: AR5B95, VNT9285BE000, M-WN791N

TEST SAMPLE: R&D SAMPLE

TESTED: Aug. 17 to 25, 2010

APPLICANT: Atheros Communications, Inc.

STANDARDS: FCC Part 15, Subpart C (Section 15.247)
ANSI C63.4-2003
Canada RSS-210 issue 7
Canada RSS-Gen issue 2

The above equipment (Model: AR5B95) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and was in compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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(Carol Liao, Specialist)

TECHNICAL ACCEPTANCE : Hank Chung , **DATE:** Aug. 30, 2010
(Hank Chung, Deputy Manager)

APPROVED BY : May Chen , **DATE:** Aug. 30, 2010
(May Chen, Deputy Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C ; RSS-210; RSS-Gen					
Standard Section			Test Type and Limit	Result	REMARK
RSS-210	RSS-Gen	47 CFR Part 15			
A8.4(4)	4.8	15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit
A8.5	4.9	15.247(c)	Transmitter Radiated Emissions FCC Limit: Table 15.209 RSS-210 Limit: Table 2	PASS	Meet the requirement of limit Minimum passing margin is -1.4dB at 2483.5MHz
-	6	-	Receiver Radiated Emissions RSS-210 Limit: Table 2	PASS	Meet the requirement of limit Minimum passing margin is -1.7dB at 399.95MHz

NOTE:

1. This report is prepared for FCC class II permissive change. Only radiated emission and maximum peak output power were presented in this test report.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Radiated emissions (30MHz-1GHz)	3.3 dB
Radiated emissions (1GHz -18GHz)	2.19 dB
Radiated emissions (18GHz -40GHz)	2.55 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11n 1x1 PCIe Minicard transceiver
MODEL NO.	AR5B95, VNT9285BE000, M-WN791N
FCC ID	PPD-AR5B95
IC ID	4104A-AR5B95
POWER SUPPLY	DC 3.3V from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b : 11 / 5.5 / 2 / 1Mbps 802.11g : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6Mbps 802.11n (20MHz) : 144.44 / 130 / 117 / 115.56 / 104 / 86.67 / 78 / 72.2 / 65 / 58.5 / 57.8 / 57.78 / 52 / 43.33 / 43.3 / 39 / 28.9 / 28.89 / 26 / 21.7 / 19.5 / 14.44 / 14.4 / 13 / 7.2 / 6.5 Mbps 802.11n (40MHz) : 300 / 270 / 243 / 240 / 216 / 180 / 162 / 150 / 135 / 121.5 / 120 / 108 / 90 / 81 / 60 / 54 / 45 / 40.5 / 30 / 27 / 15 / 13.5 Mbps
OPRTAING FREQUENCY	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	802.11g: 204.2mW
ANTENNA TYPE	1. PIFA Antenna / Gain: 3.62 dBi 2. Dipole Antenna / Gain: 3.2 dBi
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report design is as the following:

- u The RF portion layout is exactly the same. The only difference is power supply circuit. Add the option on switching regulator (for 3.3 to 1.2V). Besides that, some components are from 2nd vendors. The regulatory is for power supply (make the voltage stable), nothing related with RF.

2. The EUT has three model names which are identical to each other in all aspects except for the followings:

Brand	Model Name	Description
Atheros	AR5B95	For marketing requirement
	VNT9285BE000	
	M-WN791N	

From the above models, model: **AR5B95** was selected as representative model for the test and its data was recorded in this report.

3. The EUT incorporates CDD function with 802.11b, 802.11g and SISO function with 802.11n.
4. The EUT is 1 * 1 spatial SISO without beam forming function. The antenna configuration is one transmitter antenna and one receiver antenna, as there is one PIFA antenna or one Dipole antenna.
5. The EUT complies with 802.11n standards and backwards compatible with 802.11b, 802.11g products.
6. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz band:

Eleven channels are provided for 802.11b, 802.11g, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

Seven channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2422MHz	5	2442MHz
2	2427MHz	6	2447MHz
3	2432MHz	7	2452MHz
4	2437MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE < 1G	RE ³ 1G	APCM	
A	√	√	√	With PIFA Antenna - X-Z axis
B	√	√		With Dipole Antenna

Where **PLC:** Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ³ 1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ The receiving mode had show equal or better than Tx mode during the pre-scan and hence the Tx mode data is re-used for Receiving-mode worst-case data.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATIO N TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11g	1 to 11	1	OFDM	BPSK	6	A, B

RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11g	1 to 11	1, 11	OFDM	BPSK	6	A, B
Receiver	1 to 11	11	-	-	-	A, B

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11g	1 to 11	1, 11	OFDM	BPSK	6	A

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE³1G	26deg. C, 69%RH, 1014 hPa	120Vac, 60Hz	Eric Lee
RE<1G	26deg. C, 69%RH, 1014 hPa	120Vac, 60Hz	Eric Lee
APCM	25deg. C, 60%RH, 1014 hPa	120Vac, 60Hz	Eric Lee

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

Canada RSS-210 issue 7

Canada RSS-Gen issue 2

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

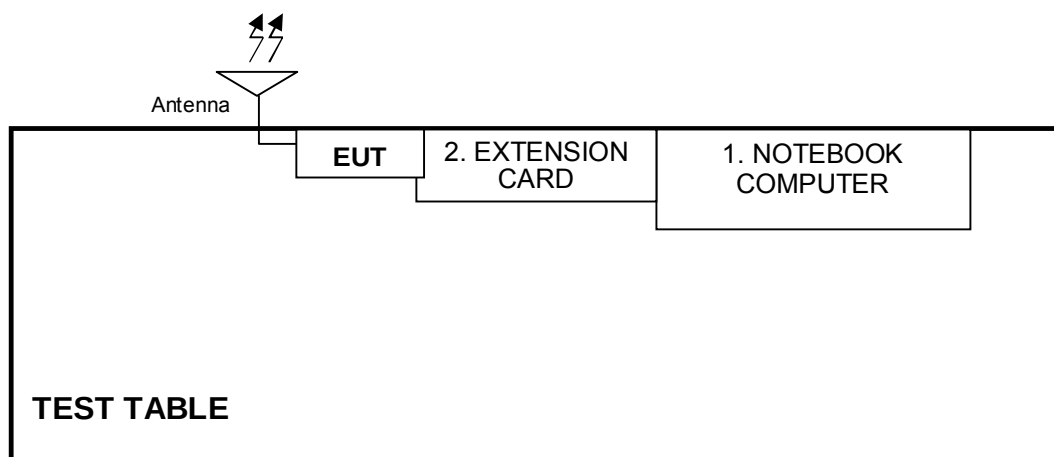
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP19L	CN-OHC416-70166-5CA-0448	PIW632500516610
2	EXTENSION CARD	Atheros	NA	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

3.5 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209(RSS-210 table 2&3) as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



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4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Agilent Spectrum Analyzer	E4446A	MY48250253	Aug. 02, 2010	Aug. 01, 2011
Agilent Pre-Selector	N9039A	MY46520311	July 14, 2010	July 13, 2011
Agilent Signal Generator	N5181A	MY49060517	July 14, 2010	July 13, 2011
Mini-Circuits Pre-Amplifier	ZFL-1000VH2B	AMP-ZFL-03	Nov. 18, 2009	Nov. 17, 2010
Agilent Pre-Amplifier	8449B	3008A02578	July 05, 2010	July 04, 2011
Miteq Pre-Amplifier	AFS33-1800265 0-30-8P-44	881786	NA	NA
SCHWARZBECK Trilog Broadband Antenna	VULB 9168	9168-360	Sep. 30, 2009	Sep. 29, 2010
AISI Horn_Antenna	AIH.8018	0000320091110	Nov. 16, 2009	Nov. 15, 2010
SCHWARZBECK Horn_Antenna	BBHA 9170	9170-424	Sep. 30, 2009	Sep. 29, 2010
RF CABLE	NA	RF104-201 RF104-203 RF104-204	Dec. 24, 2009	Dec. 23, 2010
RF Cable	NA	CHGCAB_001	NA	NA
Software	ADT_Radiated_ V8.7.05	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

3. The test was performed in 966 Chamber No. G.

4. The FCC Site Registration No. is 966073.

5. The VCCI Site Registration No. is G-137.

6. The CANADA Site Registration No. is IC 7450H-2.

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

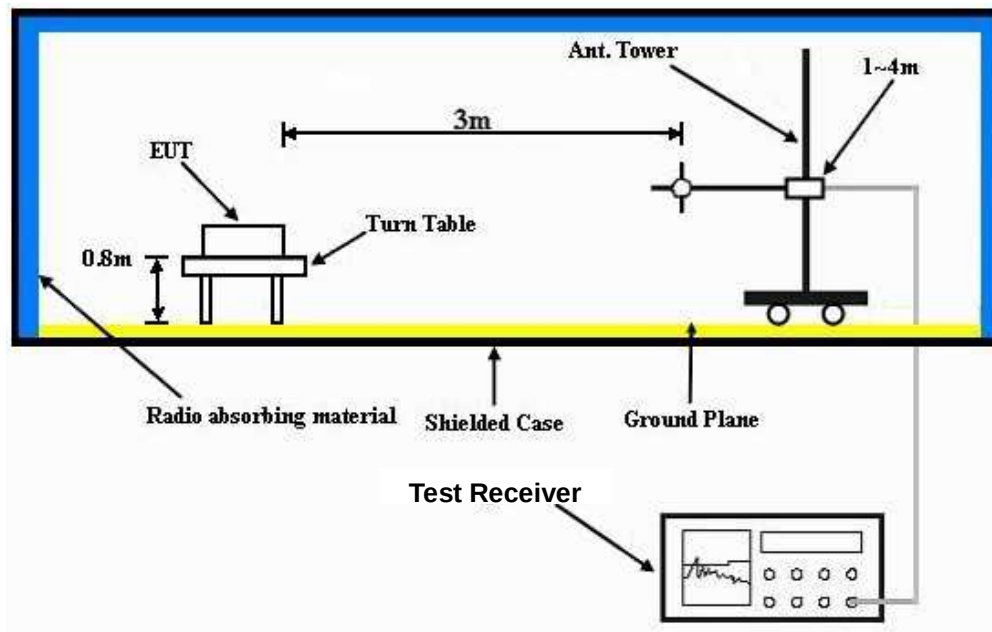
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

1. Connect the EUT with the support unit 1 (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program “Art 08 b 131” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.1.7 TEST RESULTS (FOR TRANSMITTER PART)

4.1.7.1 TEST RESULTS (With PIFA Antenna)

BELOW 1GHz WORST-CASE DATA : 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 69%RH 1014 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	233.01	38.5 QP	46.0	-7.5	1.75 H	206	26.24	12.30
2	245.10	35.8 QP	46.0	-10.2	1.50 H	236	22.91	12.93
3	400.00	44.2 QP	46.0	-1.8	2.50 H	333	26.87	17.34
4	415.18	34.2 QP	46.0	-11.8	1.50 H	184	16.54	17.70
5	432.10	43.2 QP	46.0	-2.8	1.50 H	80	25.11	18.09
6	498.02	42.6 QP	46.0	-3.4	1.00 H	197	22.91	19.66
7	699.99	37.5 QP	46.0	-8.5	2.00 H	82	14.39	23.15
8	796.50	40.1 QP	46.0	-5.9	1.00 H	236	15.67	24.43
9	896.89	39.0 QP	46.0	-7.0	1.00 H	223	12.81	26.19
10	933.33	41.0 QP	46.0	-5.0	1.00 H	8	14.49	26.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.32	34.9 QP	40.0	-5.1	1.00 V	24	21.86	13.01
2	99.51	34.4 QP	43.5	-9.2	1.25 V	223	25.15	9.20
3	399.95	39.5 QP	46.0	-6.6	2.25 V	303	22.11	17.34
4	432.04	37.5 QP	46.0	-8.5	1.25 V	275	19.44	18.09
5	497.65	38.9 QP	46.0	-7.1	1.75 V	301	19.24	19.65
6	799.75	39.3 QP	46.0	-6.8	2.25 V	187	14.78	24.47
7	862.51	43.9 QP	46.0	-2.1	1.25 V	9	18.28	25.59
8	900.52	40.0 QP	46.0	-6.0	1.25 V	231	13.78	26.25
9	909.76	38.6 QP	46.0	-7.4	1.50 V	196	12.26	26.32
10	929.06	40.9 QP	46.0	-5.1	1.25 V	360	14.47	26.47

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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ABOVE 1GHz WORST-CASE DATA

802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 69%RH 1014 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.0 PK	74.0	-11.0	1.40 H	150	31.34	31.66
2	2390.00	48.7 AV	54.0	-5.3	1.40 H	150	17.04	31.66
3	*2412.00	104.9 PK			1.48 H	147	73.17	31.73
4	*2412.00	94.0 AV			1.48 H	147	62.28	31.73
5	4824.00	45.1 PK	74.0	-28.9	1.02 H	247	6.13	38.97
6	4824.00	33.4 AV	54.0	-20.6	1.02 H	247	-5.57	38.97
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.5 PK	74.0	-12.5	1.31 V	204	29.81	31.66
2	2390.00	48.6 AV	54.0	-5.4	1.31 V	204	16.94	31.66
3	*2412.00	103.5 PK			1.29 V	200	71.77	31.73
4	*2412.00	94.1 AV			1.29 V	200	62.37	31.73
5	4824.00	45.9 PK	74.0	-28.1	1.02 V	24	6.93	38.97
6	4824.00	34.1 AV	54.0	-19.9	1.02 V	24	-4.87	38.97

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



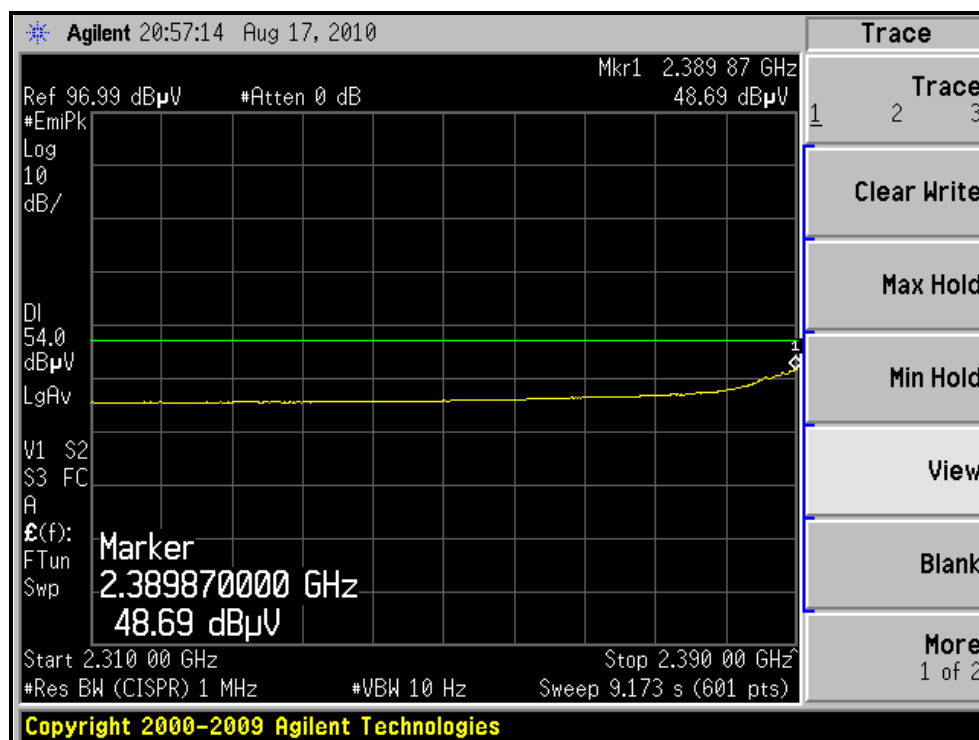
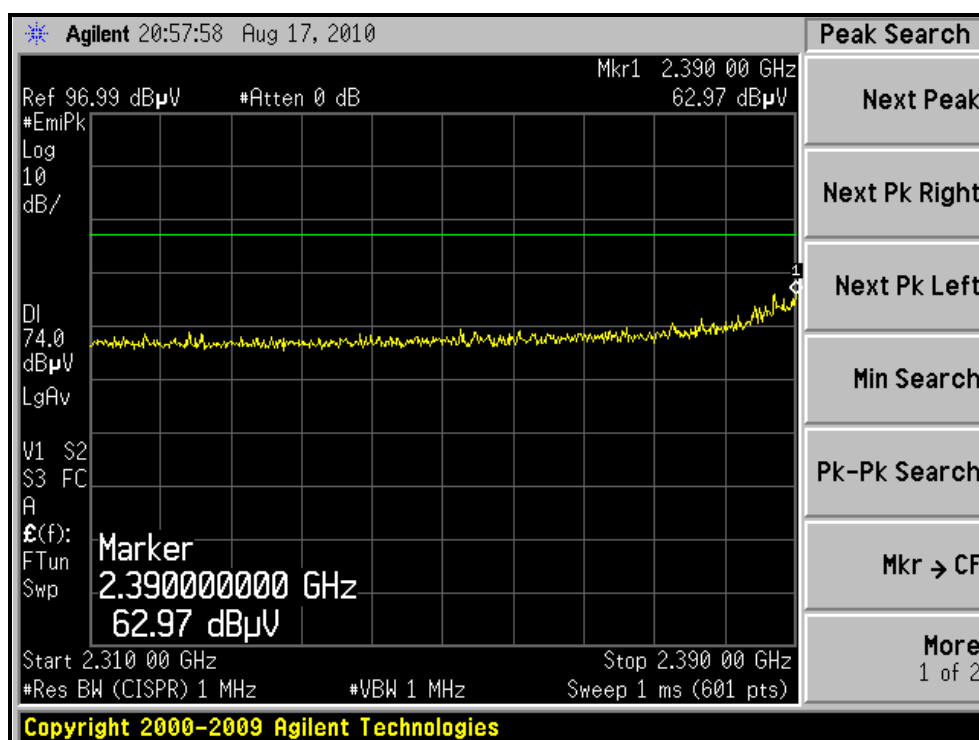
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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 69%RH 1014 hPa	TESTED BY	Eric Lee

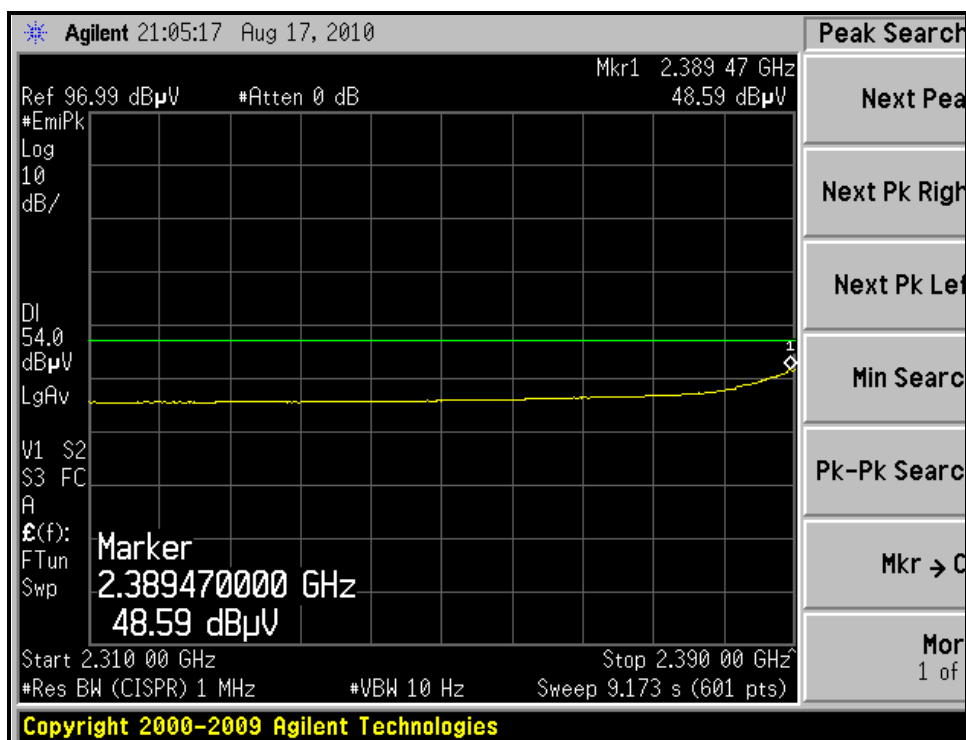
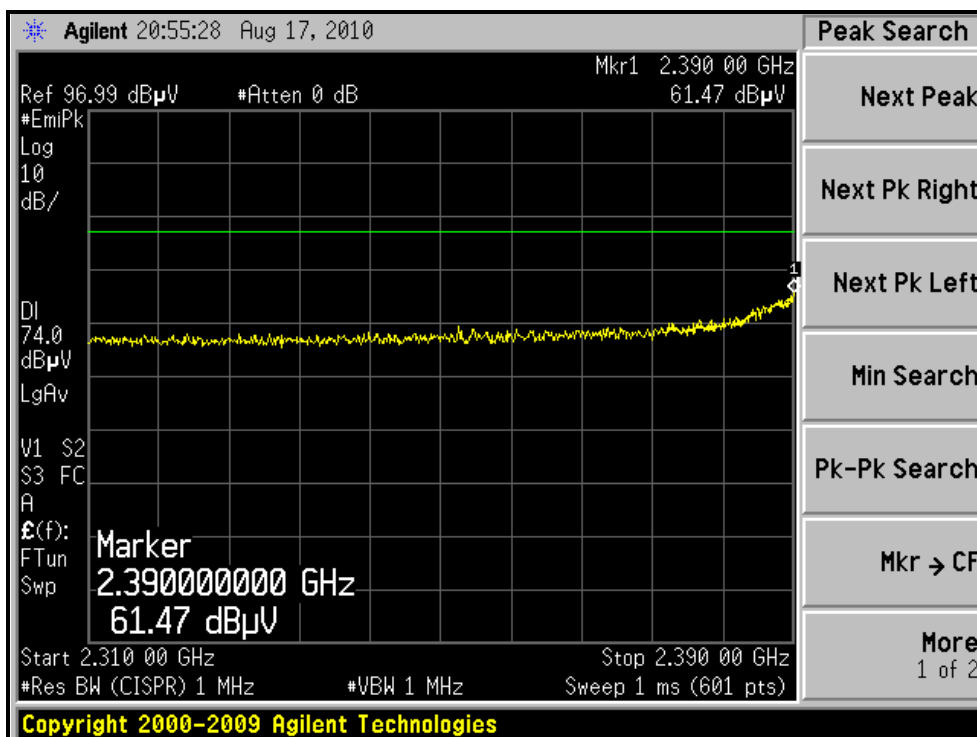
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.8 PK			1.50 H	144	74.91	31.89
2	*2462.00	95.9 AV			1.50 H	144	64.01	31.89
3	2483.50	69.7 PK	74.0	-4.3	1.45 H	195	37.73	31.97
4	2483.50	52.6 AV	54.0	-1.4	1.45 H	195	20.63	31.97
5	4924.00	45.5 PK	74.0	-28.5	1.05 H	199	6.19	39.31
6	4924.00	33.5 AV	54.0	-20.5	1.05 H	199	-5.81	39.31
7	7386.00	53.8 PK	74.0	-20.2	1.01 H	311	7.20	46.60
8	7386.00	41.0 AV	54.0	-13.0	1.01 H	311	-5.60	46.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.4 PK			1.27 V	205	73.51	31.89
2	*2462.00	95.8 AV			1.27 V	205	63.91	31.89
3	2483.50	68.6 PK	74.0	-5.4	1.27 V	206	36.63	31.97
4	2483.50	52.3 AV	54.0	-1.7	1.27 V	206	20.37	31.97
5	4924.00	45.6 PK	74.0	-28.4	1.25 V	24	6.29	39.31
6	4924.00	33.9 AV	54.0	-20.1	1.25 V	24	-5.41	39.31
7	7386.00	53.9 PK	74.0	-20.1	1.32 V	62	7.30	46.60
8	7386.00	41.3 AV	54.0	-12.7	1.32 V	62	-5.30	46.60

- REMARKS:** 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.

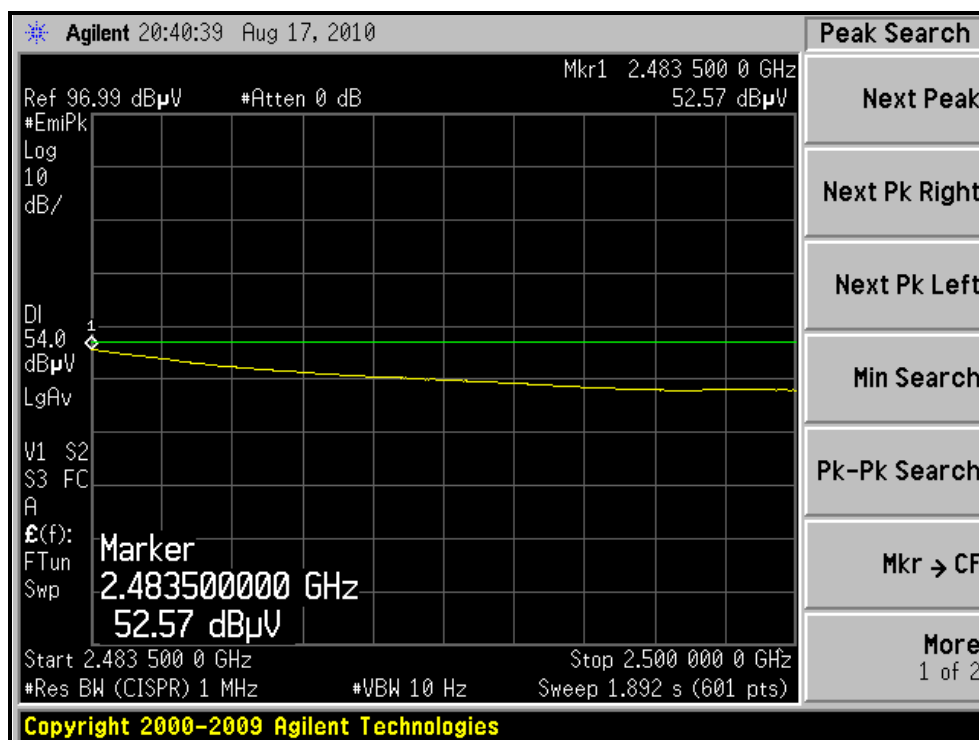
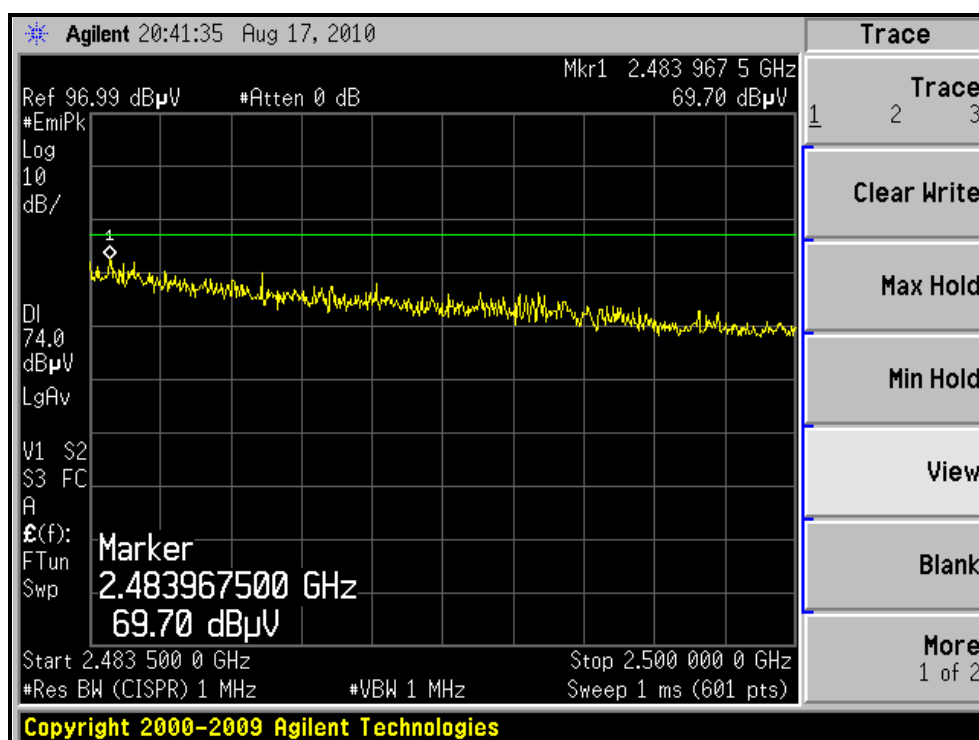
RESTRICTED BANDEDGE (802.11g MODE,CH1, HORIZONTAL)



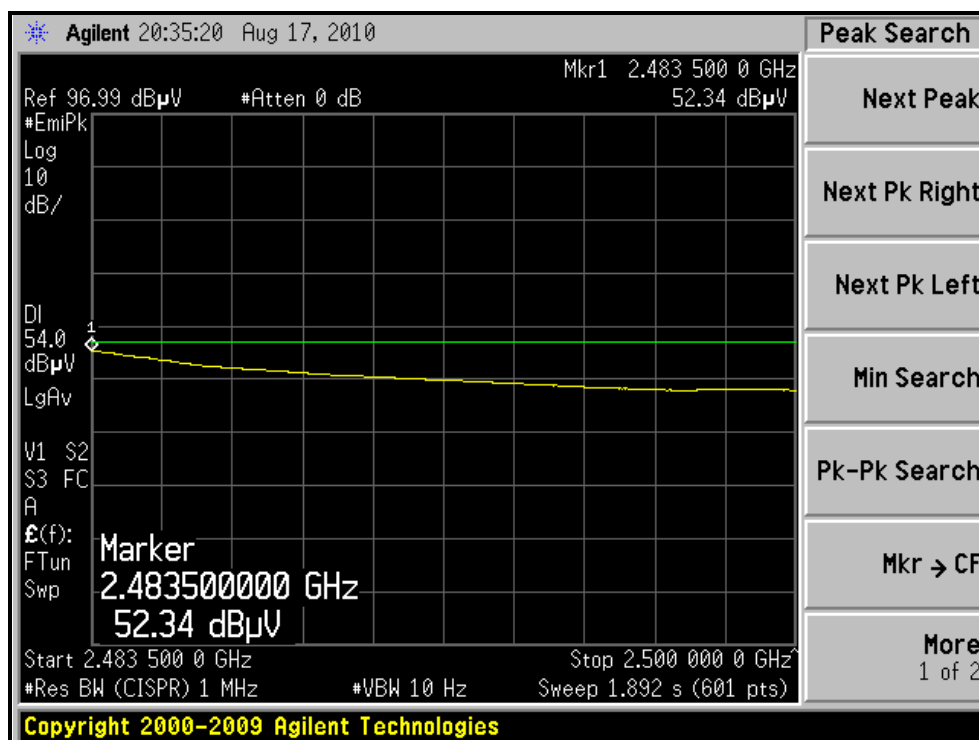
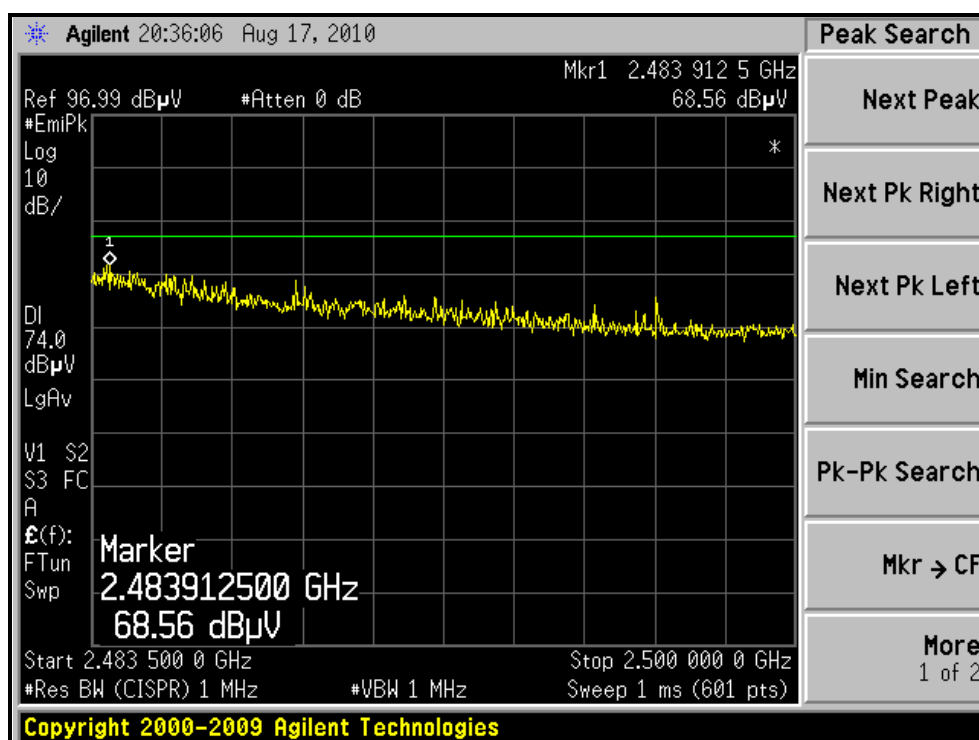
RESTRICTED BANDEDGE (802.11g MODE,CH1, VERTICAL)



RESTRICTED BANDEDGE (802.11g MODE,CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11g MODE,CH11, VERTICAL)



4.1.7.2 TEST RESULTS (With Dipole Antenna)

BELOW 1GHz WORST-CASE DATA : 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 69%RH 1014 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	232.98	38.7 QP	46.0	-7.4	1.50 H	106	26.35	12.30
2	245.06	36.1 QP	46.0	-9.9	1.25 H	126	23.19	12.93
3	399.95	44.4 QP	46.0	-1.7	2.25 H	280	27.01	17.34
4	415.23	34.4 QP	46.0	-11.6	2.00 H	259	16.70	17.70
5	432.04	42.7 QP	46.0	-3.3	2.00 H	351	24.57	18.09
6	497.65	43.2 QP	46.0	-2.8	1.75 H	338	23.57	19.65
7	699.92	37.8 QP	46.0	-8.2	2.25 H	260	14.63	23.15
8	796.43	40.4 QP	46.0	-5.6	1.75 H	260	15.93	24.43
9	896.38	39.4 QP	46.0	-6.6	1.75 H	325	13.20	26.18
10	933.33	41.2 QP	46.0	-4.8	1.25 H	302	14.67	26.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.54	34.2 QP	40.0	-5.8	1.25 V	247	21.16	13.05
2	99.56	34.7 QP	43.5	-8.8	1.50 V	147	25.47	9.21
3	399.99	40.0 QP	46.0	-6.0	2.25 V	222	22.65	17.34
4	432.15	37.5 QP	46.0	-8.6	1.00 V	319	19.36	18.09
5	497.75	38.2 QP	46.0	-7.9	1.25 V	203	18.50	19.65
6	799.80	39.3 QP	46.0	-6.7	2.00 V	356	14.85	24.47
7	862.55	43.1 QP	46.0	-2.9	1.75 V	298	17.52	25.60
8	900.48	39.9 QP	46.0	-6.1	1.50 V	195	13.62	26.25
9	909.79	37.7 QP	46.0	-8.3	1.25 V	45	11.36	26.32
10	929.10	41.0 QP	46.0	-5.0	1.00 V	8	14.53	26.47

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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ABOVE 1GHz WORST-CASE DATA

802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 70%RH 1014 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.8 PK	74.0	-16.2	1.56 H	256	26.59	31.21
2	2390.00	43.8 AV	54.0	-10.2	1.56 H	256	12.59	31.21
3	*2412.00	97.0 PK			1.57 H	255	65.73	31.27
4	*2412.00	88.5 AV			1.57 H	255	57.23	31.27
5	4824.00	44.9 PK	74.0	-29.1	1.11 H	263	5.48	39.42
6	4824.00	33.6 AV	54.0	-20.4	1.11 H	263	-5.82	39.42
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.08 V	221	28.11	31.21
2	2390.00	46.3 AV	54.0	-7.7	1.08 V	221	15.09	31.21
3	*2412.00	104.5 PK			1.07 V	216	73.23	31.27
4	*2412.00	93.0 AV			1.07 V	216	61.73	31.27
5	4824.00	46.2 PK	74.0	-27.8	1.25 V	42	6.78	39.42
6	4824.00	35.9 AV	54.0	-18.1	1.25 V	42	-3.52	39.42

- REMARKS:** 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * ”: Fundamental frequency.



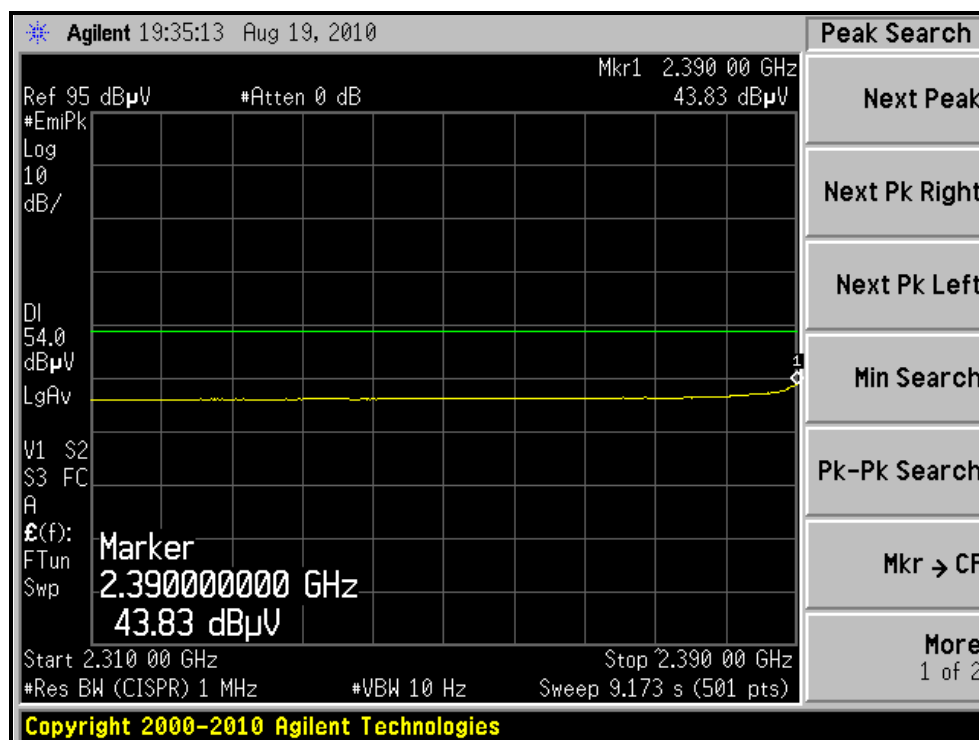
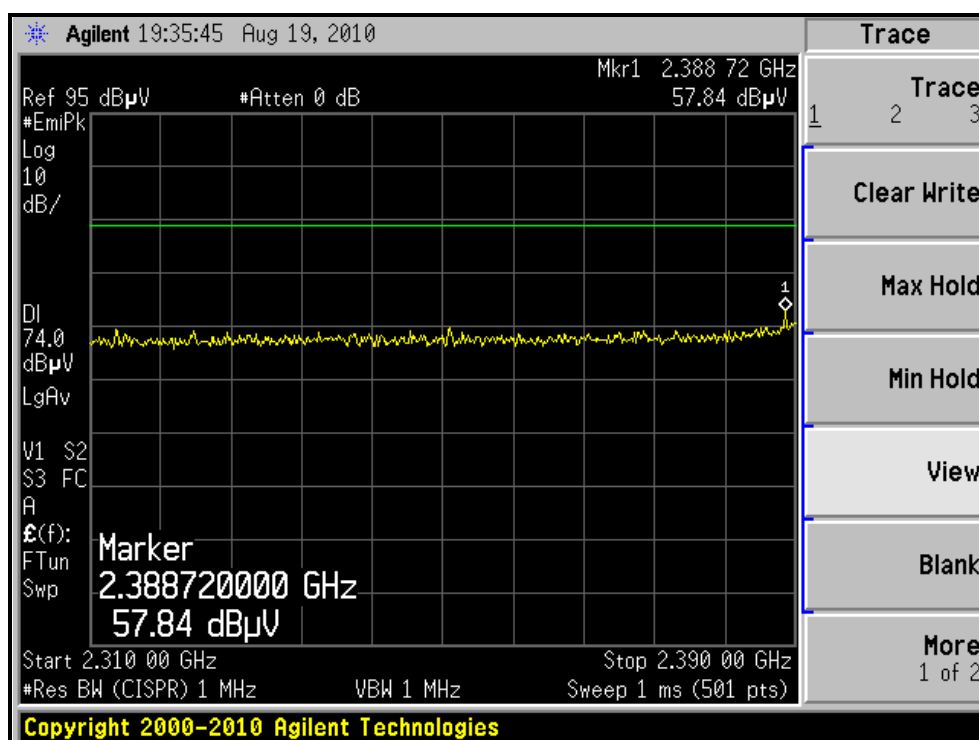
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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 70%RH 1014 hPa	TESTED BY	Eric Lee

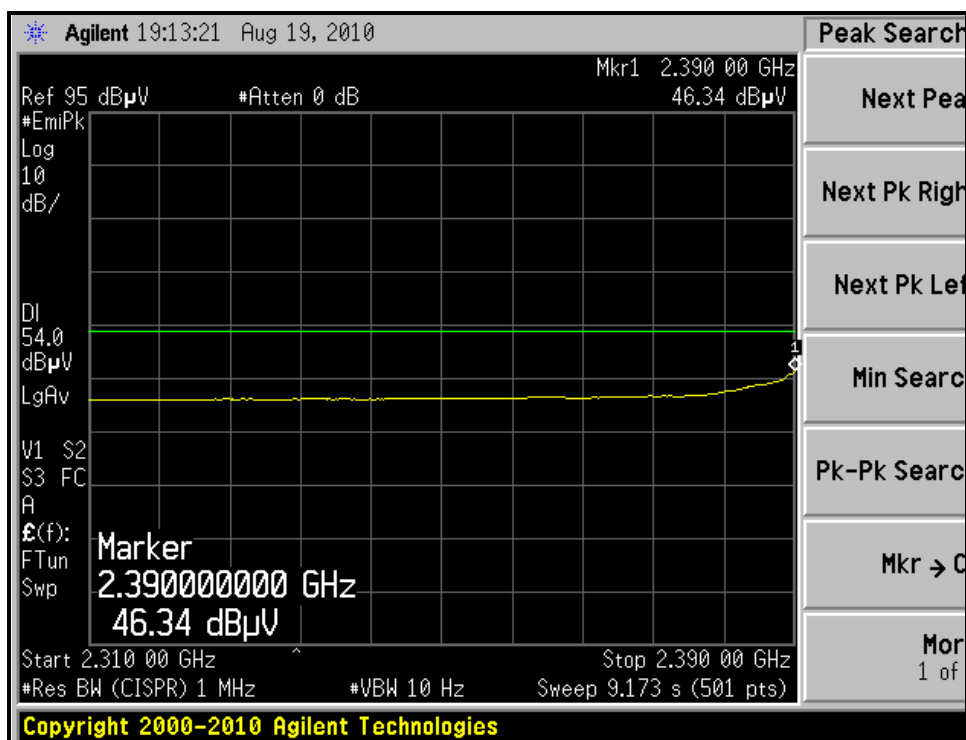
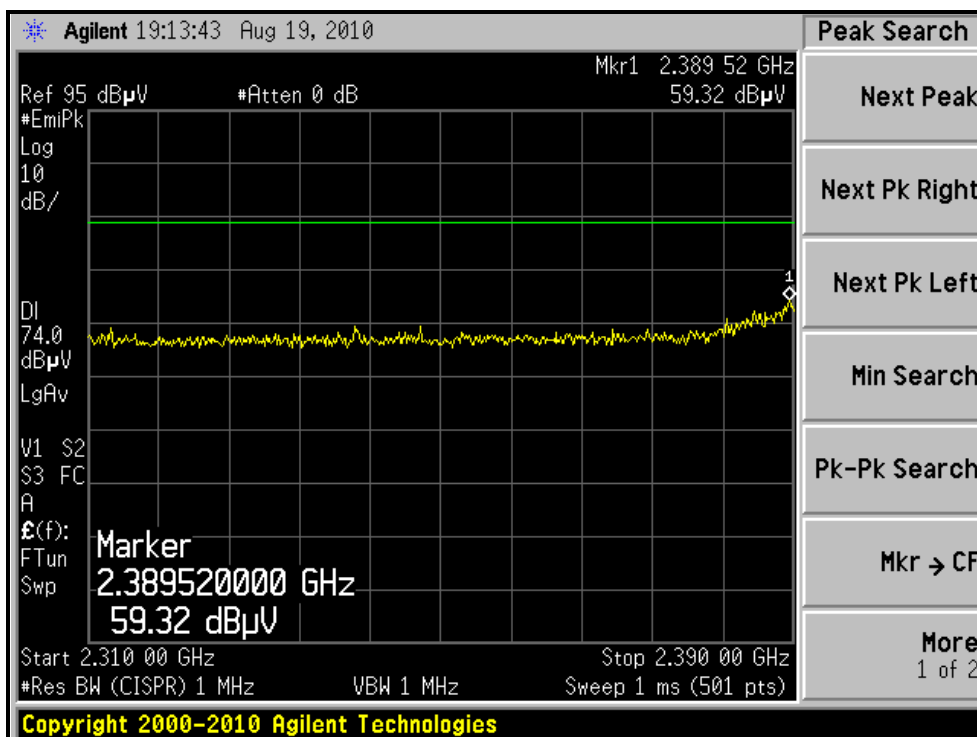
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	97.4 PK			1.64 H	360	66.00	31.40
2	*2462.00	88.7 AV			1.64 H	360	57.30	31.40
3	2483.50	64.7 PK	74.0	-9.3	1.64 H	300	33.24	31.46
4	2483.50	45.3 AV	54.0	-8.7	1.64 H	300	13.84	31.46
5	4924.00	45.1 PK	74.0	-28.9	1.05 H	200	5.28	39.82
6	4924.00	33.3 AV	54.0	-20.7	1.05 H	200	-6.52	39.82
7	7386.00	52.1 PK	74.0	-21.9	1.45 H	236	7.92	44.18
8	7386.00	40.2 AV	54.0	-13.8	1.45 H	236	-3.98	44.18
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.9 PK			1.05 V	219	72.50	31.40
2	*2462.00	94.4 AV			1.05 V	219	63.00	31.40
3	2483.50	70.3 PK	74.0	-3.7	1.06 V	219	38.84	31.46
4	2483.50	50.2 AV	54.0	-3.8	1.06 V	219	18.74	31.46
5	4924.00	46.5 PK	74.0	-27.5	1.08 V	54	6.68	39.82
6	4924.00	36.9 AV	54.0	-17.1	1.08 V	54	-2.92	39.82
7	7386.00	53.8 PK	74.0	-20.2	1.14 V	54	9.62	44.18
8	7386.00	39.9 AV	54.0	-14.1	1.14 V	54	-4.28	44.18

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.

RESTRICTED BANDEDGE (802.11g MODE,CH1, HORIZONTAL)



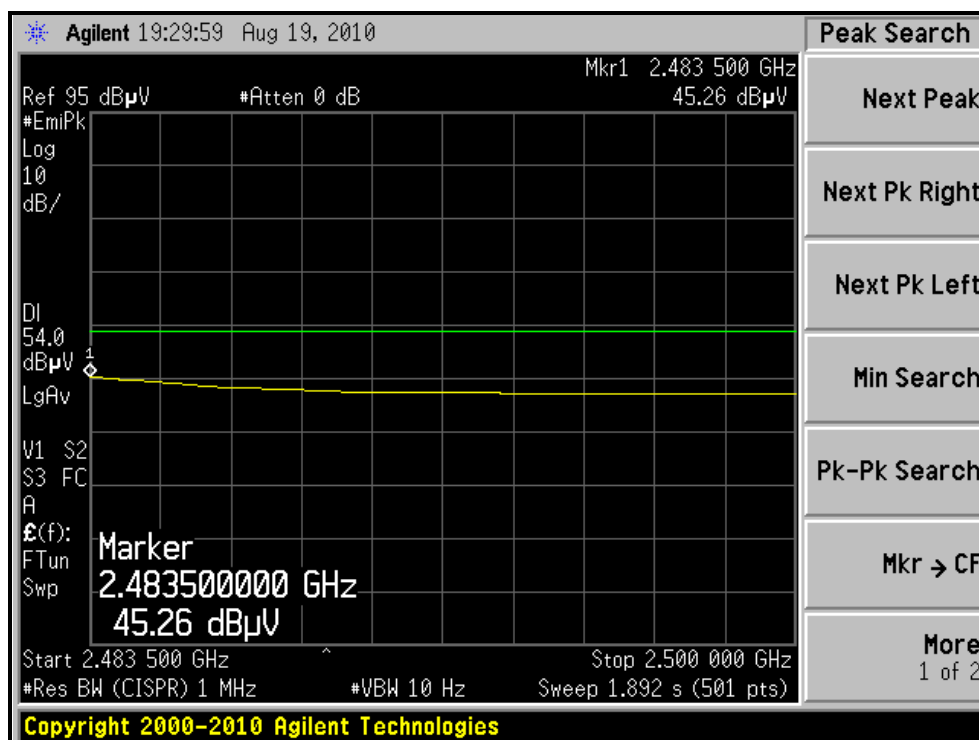
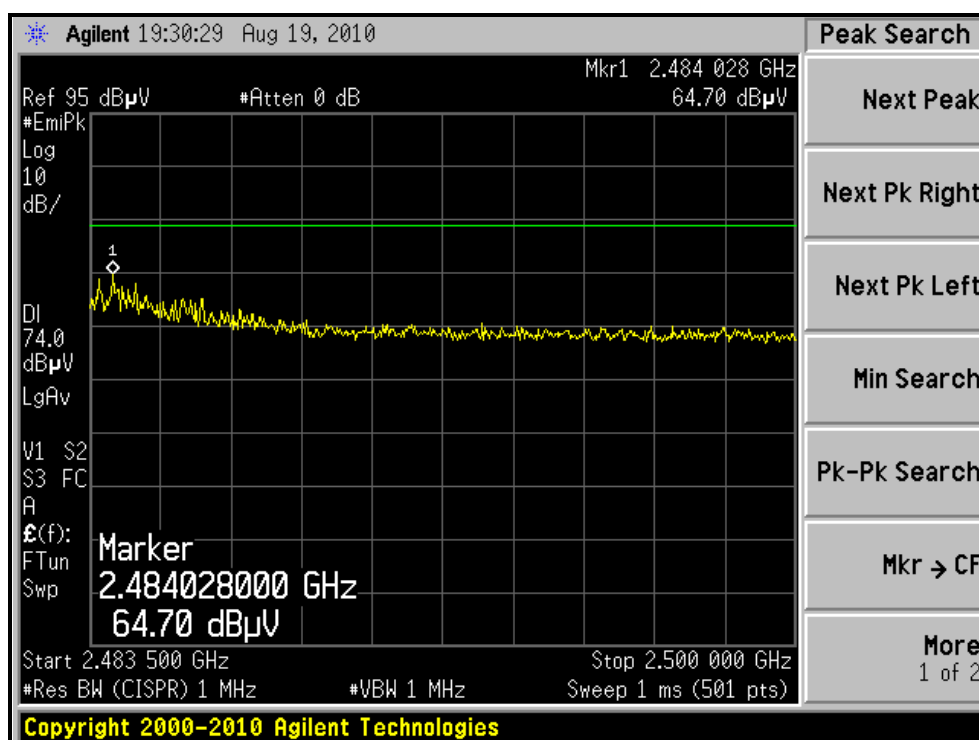
RESTRICTED BANDEDGE (802.11g MODE,CH1, VERTICAL)



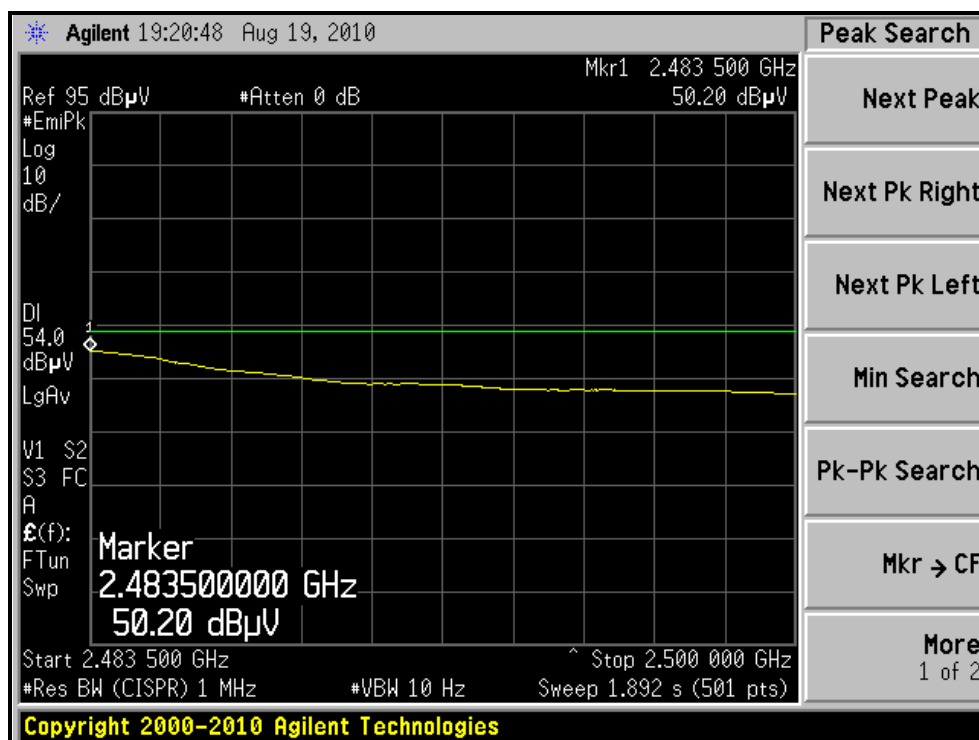
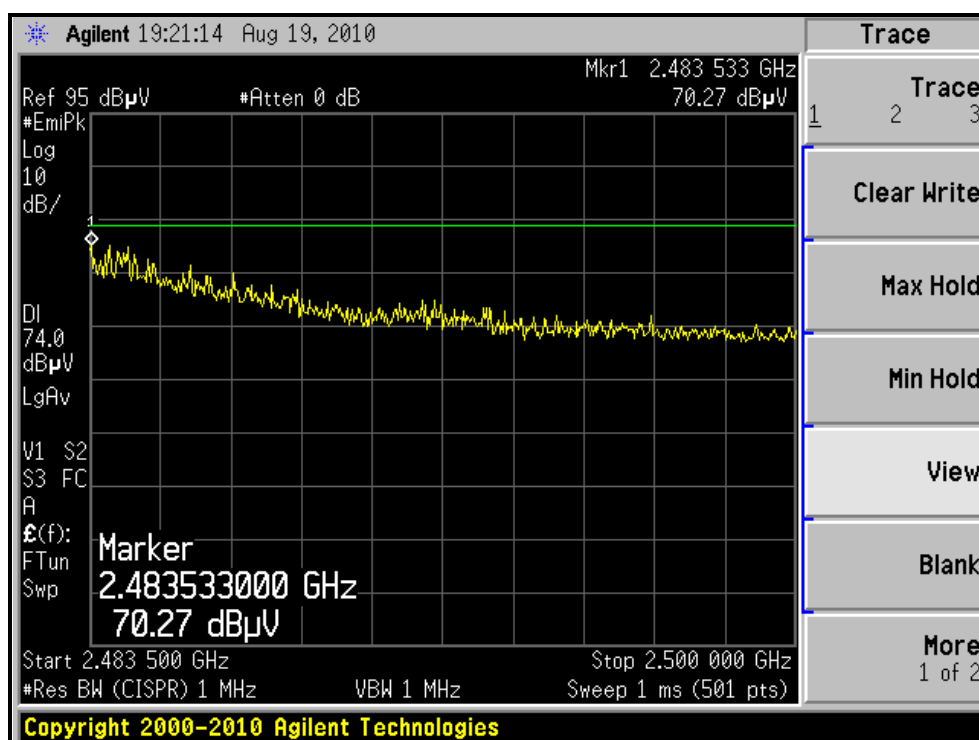


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RESTRICTED BANDEDGE (802.11g MODE,CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11g MODE,CH11, VERTICAL)



4.1.8 TEST RESULTS (FOR RECEIVER PART)

4.1.8.1 TEST RESULTS (With PIFA Antenna)

BELOW 1GHz WORST-CASE DATA :

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 69%RH 1014 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	233.01	38.5 QP	46.0	-7.5	1.75 H	206	26.24	12.30
2	245.10	35.8 QP	46.0	-10.2	1.50 H	236	22.91	12.93
3	400.00	44.2 QP	46.0	-1.8	2.50 H	333	26.87	17.34
4	415.18	34.2 QP	46.0	-11.8	1.50 H	184	16.54	17.70
5	432.10	43.2 QP	46.0	-2.8	1.50 H	80	25.11	18.09
6	498.02	42.6 QP	46.0	-3.4	1.00 H	197	22.91	19.66
7	699.99	37.5 QP	46.0	-8.5	2.00 H	82	14.39	23.15
8	796.50	40.1 QP	46.0	-5.9	1.00 H	236	15.67	24.43
9	896.89	39.0 QP	46.0	-7.0	1.00 H	223	12.81	26.19
10	933.33	41.0 QP	46.0	-5.0	1.00 H	8	14.49	26.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.32	34.9 QP	40.0	-5.1	1.00 V	24	21.86	13.01
2	99.51	34.4 QP	43.5	-9.2	1.25 V	223	25.15	9.20
3	399.95	39.5 QP	46.0	-6.6	2.25 V	303	22.11	17.34
4	432.04	37.5 QP	46.0	-8.5	1.25 V	275	19.44	18.09
5	497.65	38.9 QP	46.0	-7.1	1.75 V	301	19.24	19.65
6	799.75	39.3 QP	46.0	-6.8	2.25 V	187	14.78	24.47
7	862.51	43.9 QP	46.0	-2.1	1.25 V	9	18.28	25.59
8	900.52	40.0 QP	46.0	-6.0	1.25 V	231	13.78	26.25
9	909.76	38.6 QP	46.0	-7.4	1.50 V	196	12.26	26.32
10	929.06	40.9 QP	46.0	-5.1	1.25 V	360	14.47	26.47

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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ABOVE 1GHz WORST-CASE DATA

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 12.5GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1014 hPa	TESTED BY	Moris Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	43.2 PK	74.0	-30.8	1.50 H	48	7.58	35.62
2	4924.00	33.1 AV	54.0	-20.9	1.50 H	48	-2.52	35.62
3	7386.00	51.8 PK	74.0	-22.2	1.40 H	24	9.70	42.10
4	7386.00	37.5 AV	54.0	-16.5	1.40 H	24	-4.60	42.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	41.2 PK	74.0	-32.8	1.05 V	297	5.58	35.62
2	4924.00	31.3 AV	54.0	-22.7	1.05 V	297	-4.32	35.62
3	7386.00	52.1 PK	74.0	-21.9	1.49 V	45	10.00	42.10
4	7386.00	37.5 AV	54.0	-16.5	1.49 V	45	-4.60	42.10

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

4.1.8.2 TEST RESULTS (With Dipole Antenna)

BELOW 1GHz WORST-CASE DATA :

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 69%RH 1014 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	232.98	38.7 QP	46.0	-7.4	1.50 H	106	26.35	12.30
2	245.06	36.1 QP	46.0	-9.9	1.25 H	126	23.19	12.93
3	399.95	44.4 QP	46.0	-1.7	2.25 H	280	27.01	17.34
4	415.23	34.4 QP	46.0	-11.6	2.00 H	259	16.70	17.70
5	432.04	42.7 QP	46.0	-3.3	2.00 H	351	24.57	18.09
6	497.65	43.2 QP	46.0	-2.8	1.75 H	338	23.57	19.65
7	699.92	37.8 QP	46.0	-8.2	2.25 H	260	14.63	23.15
8	796.43	40.4 QP	46.0	-5.6	1.75 H	260	15.93	24.43
9	896.38	39.4 QP	46.0	-6.6	1.75 H	325	13.20	26.18
10	933.33	41.2 QP	46.0	-4.8	1.25 H	302	14.67	26.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.54	34.2 QP	40.0	-5.8	1.25 V	247	21.16	13.05
2	99.56	34.7 QP	43.5	-8.8	1.50 V	147	25.47	9.21
3	399.99	40.0 QP	46.0	-6.0	2.25 V	222	22.65	17.34
4	432.15	37.5 QP	46.0	-8.6	1.00 V	319	19.36	18.09
5	497.75	38.2 QP	46.0	-7.9	1.25 V	203	18.50	19.65
6	799.80	39.3 QP	46.0	-6.7	2.00 V	356	14.85	24.47
7	862.55	43.1 QP	46.0	-2.9	1.75 V	298	17.52	25.60
8	900.48	39.9 QP	46.0	-6.1	1.50 V	195	13.62	26.25
9	909.79	37.7 QP	46.0	-8.3	1.25 V	45	11.36	26.32
10	929.10	41.0 QP	46.0	-5.0	1.00 V	8	14.53	26.47

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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ABOVE 1GHz WORST-CASE DATA

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 12.5GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1014 hPa	TESTED BY	Moris Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	41.2 PK	74.0	-32.8	1.45 H	284	5.58	35.62
2	4924.00	31.8 AV	54.0	-22.2	1.45 H	284	-3.82	35.62
3	7386.00	51.9 PK	74.0	-22.1	1.42 H	98	9.80	42.10
4	7386.00	37.6 AV	54.0	-16.4	1.42 H	98	-4.50	42.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	40.5 PK	74.0	-33.5	1.18 V	267	4.88	35.62
2	4924.00	31.2 AV	54.0	-22.8	1.18 V	267	-4.42	35.62
3	7386.00	51.5 PK	74.0	-22.5	1.03 V	24	9.40	42.10
4	7386.00	37.3 AV	54.0	-16.7	1.03 V	24	-4.80	42.10

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

4.2 MAXIMUM PEAK OUTPUT POWER

4.2.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.2.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Peak Power Meter	ML2495A	0824006	May 04, 2010	May 03, 2011
Power Sensor	MA2411B	0738172	May 04, 2010	May 03, 2011

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

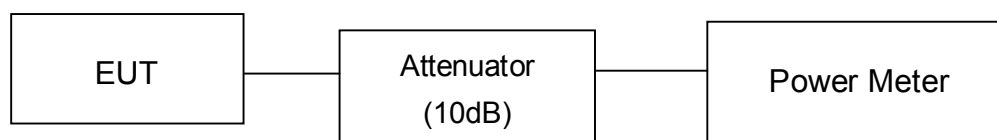
4.2.3 TEST PROCEDURES

1. The transmitter output was connected to the power meter through an attenuator; the bandwidth of the fundamental frequency was measured with the power meter.
2. Record the power level.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.7 TEST RESULTS

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER OUTPUT (mW)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	22.0	158.5	30	PASS
11	2462	23.1	204.2	30	PASS



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5. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025:

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also



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6.APPENDIX-A- MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

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