

FCC TEST REPORT

REPORT NO.: RF990716E09

MODEL NO.: ARG-1000

FCC ID: VYXWIFI-009

RECEIVED: July 16, 2010

TESTED: Sep. 14 to 16, 2010

ISSUED: Nov. 15, 2010

APPLICANT: Argtek Communication Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)

Ltd., Taoyuan Branch Hsin Chu Laboratory

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1. CERTIFICATION

PRODUCT: Dome Base

BRAND NAME: ARGtek

MODEL NO.: ARG-1000

TEST SAMPLE: R&D SAMPLE

TESTED: Sep. 14 to 16, 2010

APPLICANT: Argtek Communication Inc.

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.4-2003

The above equipment (Model: ARG-1000) has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found 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.

Midol- Veny, , DATE: Nov. 15, 2010 (Midoli Peng, Specialist)

TECHNICAL DATE: Nov. 15, 2010 ACCEPTANCE

Hank Chung, Deputy Manager)

APPROVED BY DATE: Nov. 15, 2010

(May Chen, Deputy Manager)



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 15, Subpart C								
Standard Section	Test Type and Limit	Result	Remark						
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -3.43dB at 0.150MHz						
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.						
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.						
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -0.6dB at 2487.8MHz						
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.						
15.247(d)	Conducted Out-Band Emission Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.						
15.203	Antenna Requirement	PASS	Antenna connector is RP-SMAnot a standard connector.						



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
Conducted emissions	2.45 dB
Radiated emissions (30MHz-1GHz)	3.94 dB
Radiated emissions (1GHz -18GHz)	2.49 dB
Radiated emissions (18GHz -40GHz)	2.70 dB



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Dome Base
MODEL NO.	ARG-1000
FCC ID	VYXWIFI-009
POWER SUPPLY	DC 5V 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, 800ns GI): 65 / 58.5 / 52 / 39 / 26 / 19.5 / 13 / 6.5Mbps 802.11n (40MHz, 800ns GI): 135 / 121.5 / 108 / 81 / 54 / 40.5 / 27 / 13.5Mbps 802.11n (20MHz, 400ns GI): 72.2 / 65 / 57.8 / 43.3 / 28.9 / 21.7 / 14.4 / 7.2Mbps 802.11n (40MHz, 400ns GI): 150 / 135 / 120 / 90 / 60 / 45 / 30 / 15Mbps
OPRTAING FREQUENCY	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
MAXIMUM OUTPUT POWER	802.11b: 199.5mW 802.11g: 575.4mW 802.11n (20MHz): 537.0mW 802.11n (40MHz): 407.4mW
ANTENNA TYPE	Please see note 1
DATA CABLE	USB cable(Unshielded,1.5m)
I/O PORTS	Mini USB Port x1
ASSOCIATED DEVICES	NA



NOTE:

1. There are two antennas provided to this EUT, please refer to the following table:

Item	Antenna Type	Connector	Antenna Gain (dBi)
1	Dipole	RP-SMA	5
2	Panel	RP-SMA	7

- 2. The EUT incorporates a SISO function with 802.11b, 802.11g, 802.11n. Physically, the EUT provides one completed transmitter and one receiver.
- 3. 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 Dipole antenna or one Panel antenna.
- 4. The EUT complies with 802.11n standards and backwards compatible with 802.11b, 802.11g products.
- 5. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b and 802.11n technique devices to the network.
- The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

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	APPLICABLE TO				DECORIDATION
CONFIGURE MODE	PLC	RE < 1G	RE ≥ 1G	APCM	DESCRIPTION
А	V	V	V	-	Dipole antenna
В	-	V	V	V	Panel antenna

Where **PLC**: Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ≥ **1G**: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

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
802.11b	1 to 11	1	DSSS	DBPSK	1	А

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).

☐ 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
802.11b	1 to 11	1	DSSS	DBPSK	1	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
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	A, B
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	A, B
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	A, B
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5	A, B

CONDUCTED OUT-BAND EMISSION MEASUREMENT:

- 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
802.11b	1 to 11	1, 11	DSSS	DBPSK	1	В
802.11g	1 to 11	1, 11	OFDM	BPSK	6	В
802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5	В
802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	13.5	В



ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- 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
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	В
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	В
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	В
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5	В

*** TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER(System)	TESTED BY
RE≥1G	25deg. C, 66%RH, 1012 hPa	120Vac, 60Hz	Frank Liu
RE<1G	25deg. C, 66%RH, 1012 hPa	120Vac, 60Hz	Frank Liu
PLC	27deg. C, 60%RH, 1012 hPa	120Vac, 60Hz	Timmy Hu
APCM	25deg. C, 60%RH, 1012 hPa	120Vac, 60Hz	Kent Liu



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

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

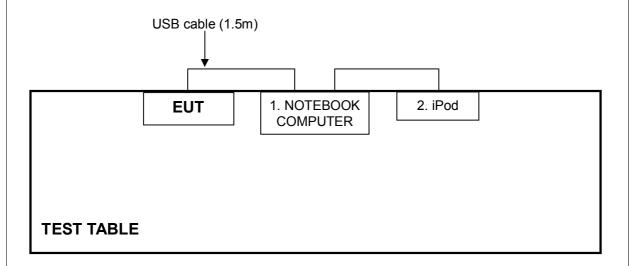
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1 1	NOTEBOOK COMPUTER	DELL	PP19L	CN-OHC416-7016 6-5CA-0448	FCC DoC
2	iPod	Apple	A1137	5K7170JBUPR	FCC DoC

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.5m USB cable.
2	1.2m USB cable.

NOTE: 1. 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 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)			
0.15-0.5	Quasi-peak	Average		
0.5-5 5-30	66 to 56 56 60	56 to 46 46 50		

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100287	Mar. 01, 2010	Feb. 28, 2011
Line-Impedance Stabilization Network (for EUT)	NSLK 8127	8127-523	Sep. 23, 2009	Sep. 22, 2010
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100072	June 11, 2010	June 10, 2011
RF Cable (JYEBAO)	5DFB	COACAB-001	Dec. 14, 2009	Dec. 13, 2010
50 ohms Terminator	50	3	Oct. 28, 2009	Oct. 27, 2010
Software	BV ADT_Cond_V7.3.7	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 test was performed in Shielded Room No. A.
- 3 The VCCI Con A Registration No. is C-817.



4.1.3 TEST PROCEDURES

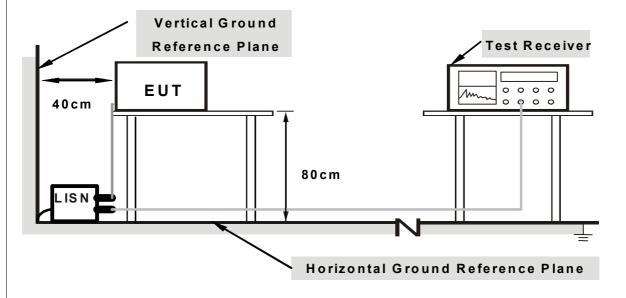
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

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4.1.4	DL	v i \neg i	ICOLV		$I \perp O I$	SIMIL	\mathcal{A}

No deviation



4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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 in test table.
- 2. The support unit 1 (Notebook Computer) runs test program "RT3x7xQA.exe" to enable EUT under transmission/receiving condition continuously at specific channel frequency.



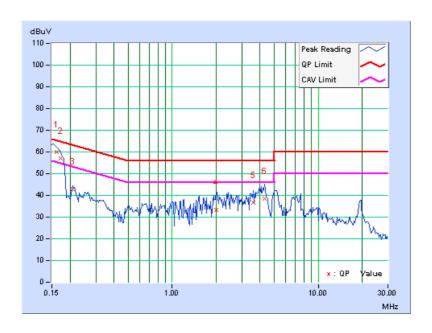
4.1.7 TEST RESULTS

PHASE Line (L)	6dB BANDWIDTH	9 kHz
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	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.04	60.12	50.07	60.16	50.11	65.35	55.35	-5.19	-5.24
2	0.173	0.04	57.13	46.03	57.17	46.07	64.79	54.79	-7.62	-8.72
3	0.209	0.04	42.83	-	42.87	-	63.26	53.26	-20.39	-
4	2.012	0.12	33.05	-	33.17	-	56.00	46.00	-22.83	-
5	3.578	0.13	36.61	-	36.74	-	56.00	46.00	-19.26	-
6	4.289	0.14	38.52	-	38.66	-	56.00	46.00	-17.34	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

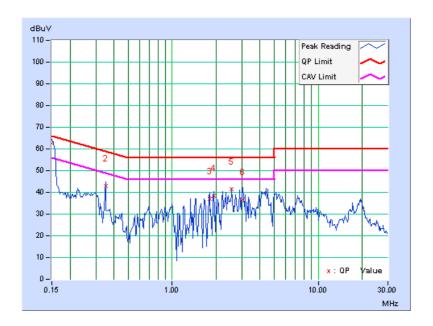




	Freq.	Corr.	Reading Value		Emission Level		Limit		Mar	gin
No		Factor	[dB	3 (uV)] [dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.05	62.52	52.18	62.57	52.23	66.00	56.00	-3.43	-3.77
2	0.349	0.06	42.98	-	43.04	-	58.98	48.98	-15.94	-
3	1.801	0.13	37.03	-	37.16	-	56.00	46.00	-18.84	-
4	1.930	0.13	38.57	-	38.70	-	56.00	46.00	-17.30	-
5	2.566	0.13	41.23	-	41.36	-	56.00	46.00	-14.64	-
6	3.043	0.14	36.66	-	36.80	-	56.00	46.00	-19.20	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 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.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010
Agilent PSA Spectrum Analyzer	E4446A	MY46180622	May 12 , 2010	May 11 , 2011
HP Pre_Amplifier	8449B	300801923	Nov. 02, 2009	Nov. 01, 2010
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Sep. 03, 2010	Sep. 02, 2011
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	Apr. 28, 2010	Apr. 27, 2011
Schwarzbeck Horn_Antenna	BBHA9120 D124		Dec. 18, 2009	Dec. 17, 2010
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 22, 2010	Jan. 21, 2011
RF Switches	EMH-011	1001	NA	NA
RF CABLE (Chaintek)	Sucoflex 104+ Sucoflex 106	RF104-101+R F106-101	Aug. 24, 2010	Aug. 23, 2011
RF Cable	8DFB	STCCAB-30M- 1GHz	NA	NA
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	NA 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) and Spectrum Analyzer (model: FSP40) are used only for the measurement of emission frequency above 1GHz if tested.

 3. The test was performed in Open Site No. C.

 4. The FCC Site Registration No. is 656396.

 5. The VCCI Site Registration No. is R-1626.

 6. The CANADA Site Registration No. is IC 7450G-3.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open field site. 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

NOTE:

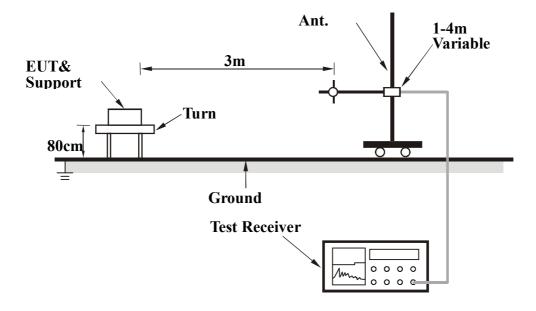
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz.
- 3. The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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as the 4.1.6



4.2.7 TEST RESULTS (With Dipole Antenna)

BELOW 1GHz WORST-CASE DATA: 802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1 FREQUENCY RANGE Below		Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	ANTENNA DOLABITY O TEGT BIOTANOS: HODIZONTAL AT OM										
	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	120.00	24.7 QP	43.5	-18.8	1.00 H	20	12.48	12.20			
2	216.00	30.0 QP	43.5	-13.5	1.04 H	265	18.24	11.79			
3	360.00	34.9 QP	46.0	-11.1	1.00 H	238	17.78	17.16			
4	480.00	36.1 QP	46.0	-9.9	1.00 H	102	15.85	20.23			
5	760.09	33.1 QP	46.0	-12.9	1.07 H	347	7.92	25.16			
6	960.00	36.2 QP	46.0	-9.8	1.00 H	271	8.17	28.07			
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	66.25	31.7 QP	40.0	-8.3	1.00 V	298	19.21	12.53			
2	160.00	26.7 QP	43.5	-16.8	1.00 V	353	11.25	15.47			
3	472.49	27.2 QP	46.0	-18.8	1.09 V	249	7.14	20.03			
4	480.00	25.1 QP	46.0	-20.9	1.02 V	275	4.88	20.23			
								·			
5	760.09	29.1 QP	46.0	-16.9	1.00 V	320	3.94	25.16			

- 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.



ABOVE 1GHz WORST-CASE DATA

802.11b DSSS 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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	54.7 PK	74.0	-19.3	1.06 H	127	23.70	31.00				
2	2390.00	42.5 AV	54.0	-11.5	1.06 H	127	11.50	31.00				
3	*2412.00	99.4 PK			1.06 H	127	68.30	31.10				
4	*2412.00	96.8 AV			1.06 H	127	65.70	31.10				
5	4824.00	43.9 PK	74.0	-30.1	1.27 H	189	6.80	37.10				
6	4824.00	42.7 AV	54.0	-11.3	1.27 H	189	5.60	37.10				
		ANTENNA	A POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 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	56.7 PK	74.0	-17.3	1.59 V	256	25.70	31.00				
2	2390.00	45.5 AV	54.0	-8.5	1.59 V	256	14.50	31.00				
3	*2412.00	108.0 PK			1.57 V	255	76.90	31.10				
4	*2412.00	105.6 AV			1.57 V	255	74.50	31.10				
5	4824.00	50.7 PK	74.0	-23.3	1.36 V	262	13.60	37.10				
6	4824.00	48.4 AV	54.0	-5.6	1.36 V	262	11.30	37.10				

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 6		FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	*2437.00	99.9 PK			1.00 H	314	68.70	31.20			
2	*2437.00	96.7 AV			1.00 H	314	65.50	31.20			
3	4874.00	44.3 PK	74.0	-29.7	1.34 H	184	7.10	37.20			
4	4874.00	43.2 AV	54.0	-10.8	1.34 H	184	6.00	37.20			
5	7311.00	51.1 PK	74.0	-22.9	1.29 H	213	6.70	44.40			
6	7311.00	39.2 AV	54.0	-14.8	1.29 H	213	-5.20	44.40			
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	*2437.00	107.4 PK			1.57 V	279	76.20	31.20			
2	*2437.00	105.3 AV			1.57 V	279	74.10	31.20			
3	4874.00	51.2 PK	74.0	-22.8	1.58 V	262	14.00	37.20			
4	4874.00	49.4 AV	54.0	-4.6	1.58 V	262	12.20	37.20			
5	7311.00	50.6 PK	74.0	-23.4	1.24 V	284	6.20	44.40			
6	7311.00	40.4 AV	54.0	-13.6	1.24 V	284	-4.00	44.40			

- 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.



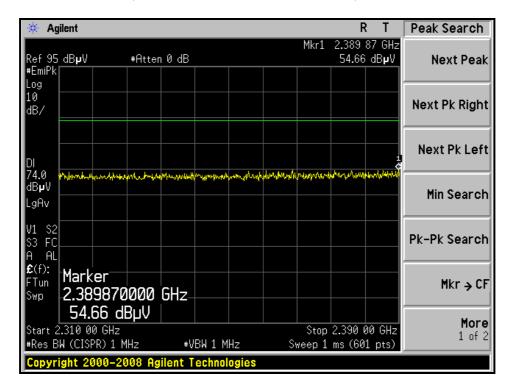
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 11		FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

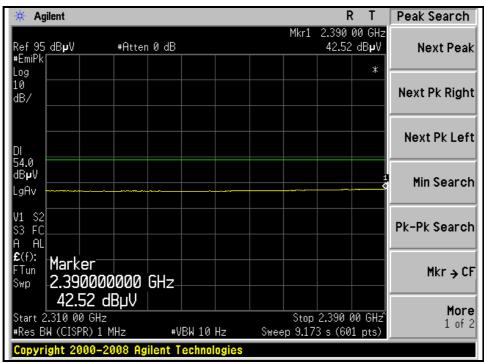
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2462.00	100.6 PK			1.00 H	316	69.30	31.30			
2	*2462.00	97.4 AV			1.00 H	316	66.10	31.30			
3	2487.80	55.6 PK	74.0	-18.4	1.00 H	316	24.20	31.40			
4	2487.80	43.5 AV	54.0	-10.5	1.00 H	316	12.10	31.40			
5	4924.00	46.7 PK	74.0	-27.3	1.32 H	180	9.40	37.30			
6	4924.00	44.6 AV	54.0	-9.4	1.32 H	180	7.30	37.30			
7	7386.00	51.1 PK	74.0	-22.9	1.39 H	211	6.50	44.60			
8	7386.00	39.8 AV	54.0	-14.2	1.39 H	211	-4.80	44.60			
		ANTENNA	A POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 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	109.6 PK			1.61 V	288	78.30	31.30			
2	*2462.00	107.4 AV			1.61 V	288	76.10	31.30			
3	2487.80	60.6 PK	74.0	-13.4	1.55 V	269	29.20	31.40			
4	2487.80	53.4 AV	54.0	-0.6	1.55 V	269	22.00	31.40			
5	4924.00	53.8 PK	74.0	-20.2	1.34 V	246	16.50	37.30			
6	4924.00	51.8 AV	54.0	-2.2	1.34 V	246	14.50	37.30			
7	7386.00	51.9 PK	74.0	-22.1	1.21 V	290	7.30	44.60			
8	7386.00	41.3 AV	54.0	-12.7	1.21 V	290	-3.30	44.60			

- 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.



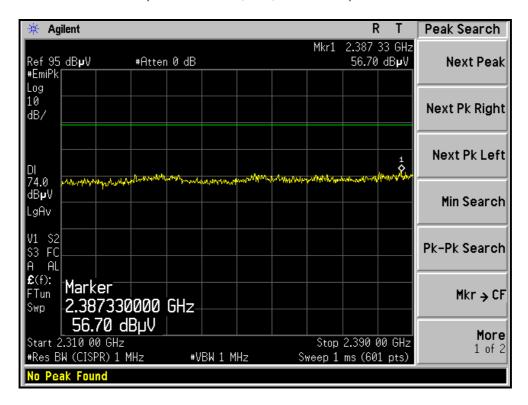
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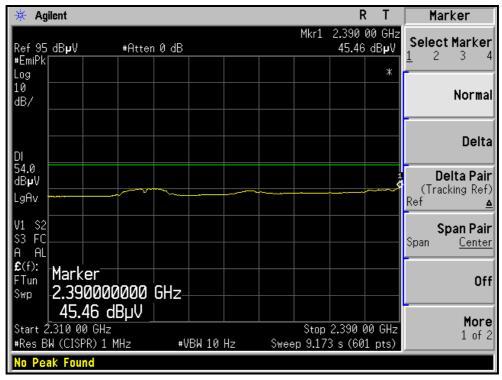






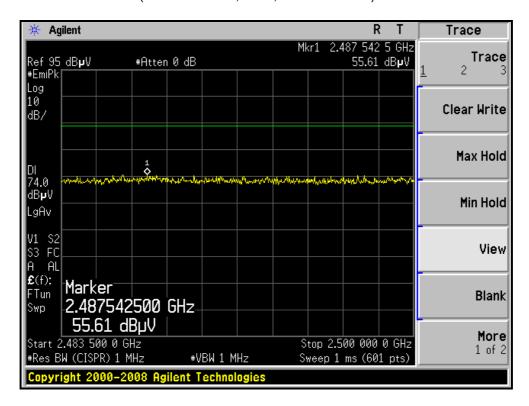
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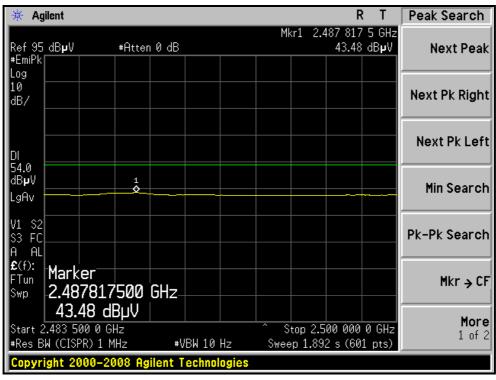






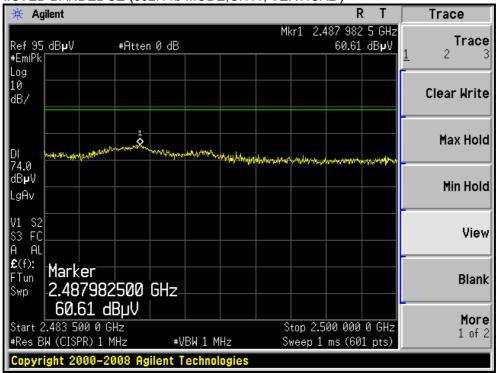
RESTRICTED BANDEDGE (802.11b MODE, CH11, HORIZONTAL)

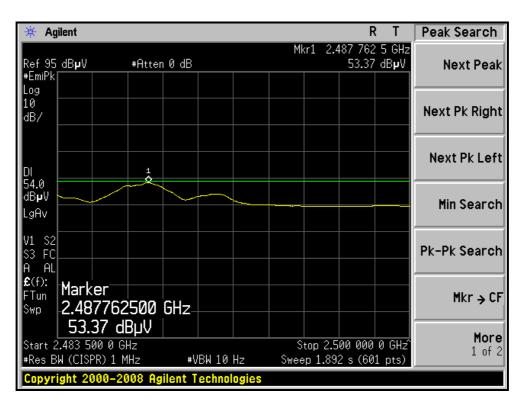






RESTRICTED BANDEDGE (802.11b MODE, CH11, VERTICAL)







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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	57.4 PK	74.0	-16.6	1.39 H	81	26.40	31.00				
2	2390.00	43.0 AV	54.0	-11.0	1.39 H	81	12.00	31.00				
3	*2412.00	101.9 PK			1.39 H	81	70.80	31.10				
4	*2412.00	91.7 AV			1.39 H	81	60.60	31.10				
5	4824.00	44.1 PK	74.0	-29.9	1.24 H	187	7.00	37.10				
6	4824.00	33.7 AV	54.0	-20.3	1.24 H	187	-3.40	37.10				
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	68.6 PK	74.0	-5.4	1.61 V	254	37.60	31.00				
2	2390.00	53.1 AV	54.0	-0.9	1.61 V	254	22.10	31.00				
3	*2412.00	110.9 PK			1.57 V	255	79.80	31.10				
4	*2412.00	102.3 AV			1.57 V	255	71.20	31.10				
5	4824.00	49.8 PK	74.0	-24.2	1.36 V	259	12.70	37.10				
6	4824.00	38.3 AV	54.0	-15.7	1.36 V	259	1.20	37.10				

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	*2437.00	102.0 PK			1.34 H	79	70.83	31.17
2	*2437.00	91.9 AV			1.34 H	79	60.73	31.17
3	4874.00	44.2 PK	74.0	-29.8	1.26 H	184	6.97	37.23
4	4874.00	34.1 AV	54.0	-19.9	1.26 H	184	-3.13	37.23
5	7311.00	50.9 PK	74.0	-23.1	1.24 H	216	6.54	44.36
6	7311.00	39.1 AV	54.0	-14.9	1.24 H	216	-5.26	44.36
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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)
NO .	FREQ. (MHz) 2383.80	LEVEL		MARGIN (dB)		ANGLE		FACTOR
	,	LEVEL (dBuV/m)	(dBuV/m)	Ì	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)
1	2383.80	LEVEL (dBuV/m) 60.6 PK	(dBuV/m) 74.0	-13.4	HEIGHT (m) 1.38 V	ANGLE (Degree)	(dBuV) 29.65	FACTOR (dB/m) 30.94
1 2	2383.80 2383.80	LEVEL (dBuV/m) 60.6 PK 51.0 AV	(dBuV/m) 74.0	-13.4	1.38 V 1.38 V	ANGLE (Degree) 273 273	(dBuV) 29.65 20.06	FACTOR (dB/m) 30.94 30.94
1 2 3	2383.80 2383.80 *2437.00	LEVEL (dBuV/m) 60.6 PK 51.0 AV 111.2 PK	(dBuV/m) 74.0	-13.4	1.38 V 1.38 V 1.38 V	ANGLE (Degree) 273 273 273	(dBuV) 29.65 20.06 80.03	FACTOR (dB/m) 30.94 30.94 31.17
1 2 3 4	2383.80 2383.80 *2437.00 *2437.00	LEVEL (dBuV/m) 60.6 PK 51.0 AV 111.2 PK 103.1 AV	(dBuV/m) 74.0 54.0	-13.4 -3.0	1.38 V 1.38 V 1.38 V 1.38 V	273 273 273 273 273	(dBuV) 29.65 20.06 80.03 71.93	FACTOR (dB/m) 30.94 30.94 31.17 31.17
1 2 3 4 5	2383.80 2383.80 *2437.00 *2437.00 4874.00	LEVEL (dBuV/m) 60.6 PK 51.0 AV 111.2 PK 103.1 AV 50.1 PK	(dBuV/m) 74.0 54.0 74.0	-13.4 -3.0 -23.9	1.38 V 1.38 V 1.38 V 1.38 V 1.37 V	ANGLE (Degree) 273 273 273 273 273 254	(dBuV) 29.65 20.06 80.03 71.93 12.87	FACTOR (dB/m) 30.94 30.94 31.17 31.17 37.23

- 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.



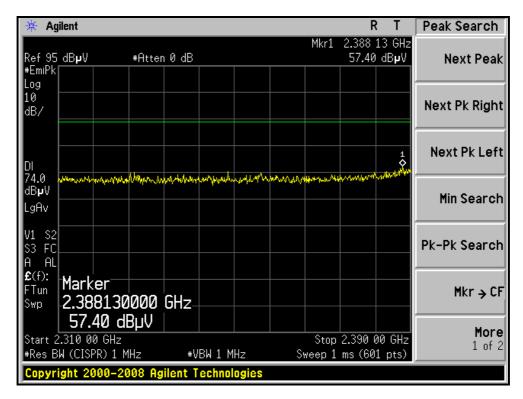
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

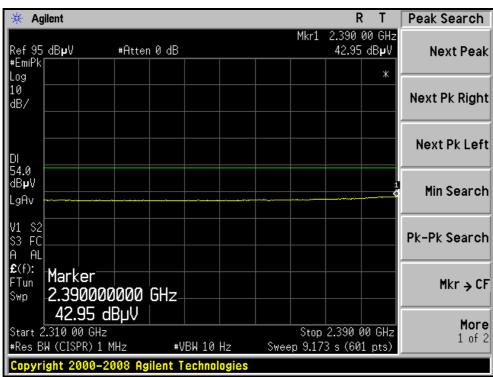
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.6 PK			1.31 H	74	71.30	31.30
2	*2462.00	92.7 AV			1.31 H	74	61.40	31.30
3	2483.50	60.3 PK	74.0	-13.7	1.24 H	81	28.90	31.40
4	2483.50	45.9 AV	54.0	-8.1	1.24 H	81	14.50	31.40
5	4924.00	44.3 PK	74.0	-29.7	1.32 H	179	7.00	37.30
6	4924.00	34.6 AV	54.0	-19.4	1.32 H	179	-2.70	37.30
7	7386.00	51.4 PK	74.0	-22.6	1.32 H	213	6.80	44.60
8	7386.00	39.4 AV	54.0	-14.6	1.32 H	213	-5.20	44.60
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	111.4 PK			1.29 V	263	80.12	31.28
2	*2462.00	103.4 AV			1.29 V	263	72.12	31.28
3	2483.50	67.5 PK	74.0	-6.5	1.29 V	263	36.13	31.37
4	2483.50	52.0 AV	54.0	-2.0	1.29 V	263	20.63	31.37
5	4924.00	50.4 PK	74.0	-23.6	1.31 V	249	13.05	37.35
6	4924.00	38.7 AV	54.0	-15.3	1.31 V	249	1.35	37.35
7	7386.00	51.2 PK	74.0	-22.8	1.04 V	293	6.60	44.60
8	7386.00	39.8 AV	54.0	-14.2	1.04 V	293	-4.80	44.60

- 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.



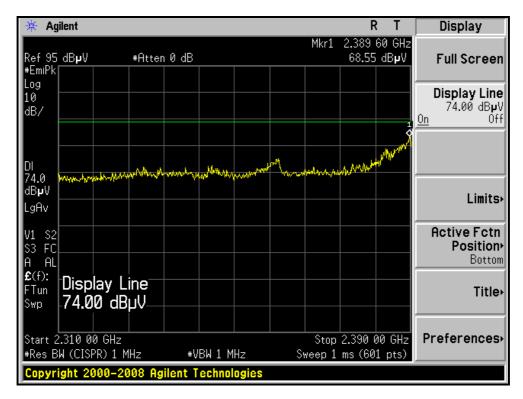
RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)

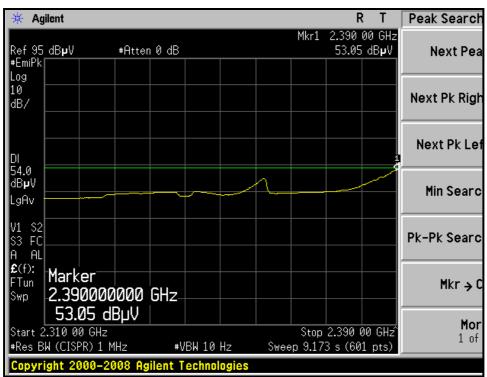






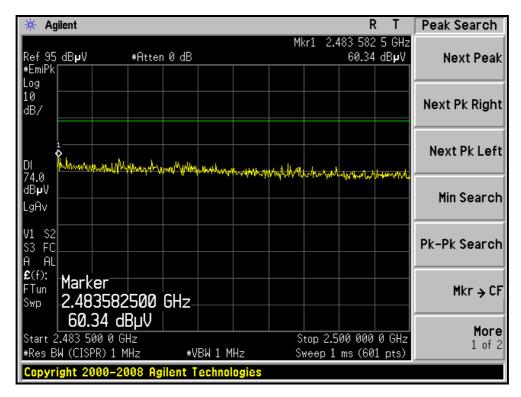
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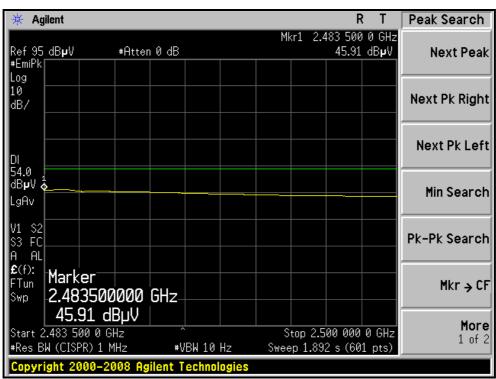






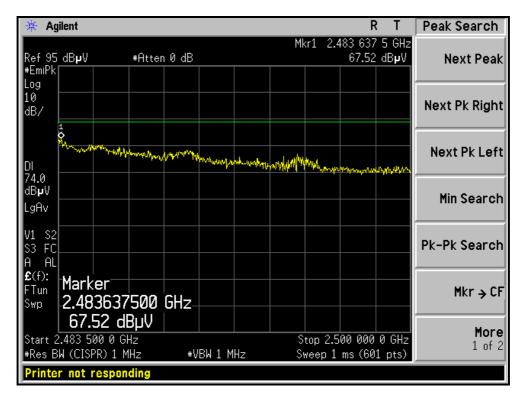
RESTRICTED BANDEDGE (802.11g MODE, CH11, HORIZONTAL)

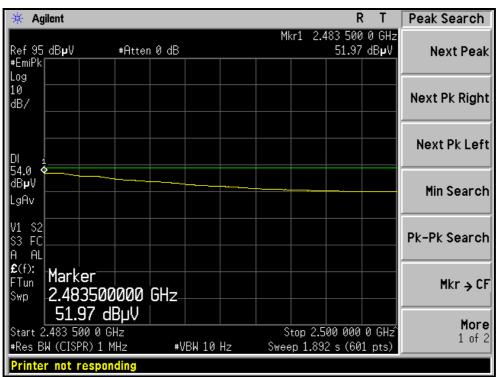






RESTRICTED BANDEDGE (802.11g MODE, CH11, VERTICAL)







802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	CHANNEL Channel 1		1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION		
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	2389.90	55.4 PK	74.0	-18.6	1.39 H	73	24.40	31.00		
2	2389.90	43.2 AV	54.0	-10.8	1.39 H	73	12.20	31.00		
3	*2412.00	100.4 PK			1.39 H	73	69.30	31.10		
4	*2412.00	90.9 AV			1.39 H	73	59.80	31.10		
5	4824.00	44.0 PK	74.0	-30.0	1.21 H	173	6.90	37.10		
6	4824.00	33.4 AV	54.0	-20.6	1.21 H	173	-3.70	37.10		
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
	NO. FREQ. (MHz) EMISSION LEVEL LIMIT (dBuV/m) MARGIN (dB) HEIGHT (m) TABLE ANGLE RAW VALUE (dBuV) FACTOR									
NO.	FREQ. (MHz)			MARGIN (dB)	7	.,		CORRECTION FACTOR (dB/m)		
NO .	FREQ. (MHz) 2390.00	LEVEL		MARGIN (dB) -7.6	7	ANGLE		FACTOR		
	` ,	LEVEL (dBuV/m)	(dBuV/m)	- (-)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)		
1	2390.00	LEVEL (dBuV/m) 66.4 PK	(dBuV/m) 74.0	-7.6	HEIGHT (m)	ANGLE (Degree)	(dBuV) 35.40	FACTOR (dB/m) 31.00		
1 2	2390.00 2390.00	LEVEL (dBuV/m) 66.4 PK 51.5 AV	(dBuV/m) 74.0	-7.6	1.33 V 1.33 V	ANGLE (Degree) 276 276	(dBuV) 35.40 20.50	FACTOR (dB/m) 31.00 31.00		
1 2 3	2390.00 2390.00 *2412.00	LEVEL (dBuV/m) 66.4 PK 51.5 AV 110.0 PK	(dBuV/m) 74.0	-7.6	1.33 V 1.33 V 1.32 V	ANGLE (Degree) 276 276 282	(dBuV) 35.40 20.50 78.90	FACTOR (dB/m) 31.00 31.00 31.10		

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA I	POLARITY	& TEST DIS	I ANCE: HO	RIZONTAL	AI 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	*2437.00	100.1 PK			1.36 H	87	68.90	31.20
2	*2437.00	90.7 AV			1.36 H	87	59.50	31.20
3	4874.00	44.6 PK	74.0	-29.4	1.29 H	173	7.40	37.20
4	4874.00	33.6 AV	54.0	-20.4	1.29 H	173	-3.60	37.20
5	7311.00	50.5 PK	74.0	-23.5	1.24 H	211	6.10	44.40
6	7311.00	39.4 AV	54.0	-14.6	1.24 H	211	-5.00	44.40
		ANTENNA	A POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 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)
NO.	FREQ. (MHz) *2437.00	LEVEL		MARGIN (dB)		ANGLE		FACTOR
		LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)
1	*2437.00	LEVEL (dBuV/m) 110.3 PK		MARGIN (dB) -14.6	HEIGHT (m) 1.36 V	ANGLE (Degree)	(dBuV) 79.10	FACTOR (dB/m) 31.20
1 2	*2437.00 *2437.00	LEVEL (dBuV/m) 110.3 PK 101.2 AV	(dBuV/m)		1.36 V 1.36 V	ANGLE (Degree) 243 243	(dBuV) 79.10 70.00	FACTOR (dB/m) 31.20 31.20
1 2 3	*2437.00 *2437.00 2489.00	LEVEL (dBuV/m) 110.3 PK 101.2 AV 59.4 PK	(dBuV/m) 74.0	-14.6	1.36 V 1.36 V 1.33 V	ANGLE (Degree) 243 243 274	(dBuV) 79.10 70.00 28.00	FACTOR (dB/m) 31.20 31.20 31.40
1 2 3 4	*2437.00 *2437.00 2489.00 2489.00	LEVEL (dBuV/m) 110.3 PK 101.2 AV 59.4 PK 50.7 AV	74.0 54.0	-14.6 -3.3	1.36 V 1.36 V 1.33 V 1.33 V	ANGLE (Degree) 243 243 274 274	79.10 70.00 28.00 19.30	FACTOR (dB/m) 31.20 31.20 31.40 31.40
1 2 3 4 5	*2437.00 *2437.00 2489.00 2489.00 4874.00	LEVEL (dBuV/m) 110.3 PK 101.2 AV 59.4 PK 50.7 AV 50.4 PK	74.0 54.0 74.0	-14.6 -3.3 -23.6	1.36 V 1.36 V 1.33 V 1.33 V 1.36 V	ANGLE (Degree) 243 243 274 274 251	79.10 70.00 28.00 19.30 13.20	FACTOR (dB/m) 31.20 31.20 31.40 31.40 37.20

- 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.



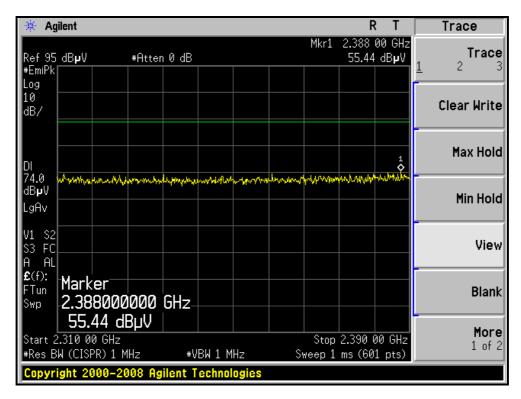
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 11		FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

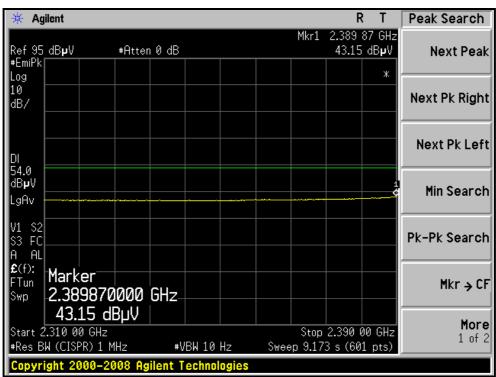
		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.6 PK			1.36 H	84	70.30	31.30
2	*2462.00	91.4 AV			1.36 H	84	60.10	31.30
3	2483.50	59.9 PK	74.0	-14.1	1.36 H	84	28.50	31.40
4	2483.50	45.4 AV	54.0	-8.6	1.36 H	84	14.00	31.40
5	4924.00	45.3 PK	74.0	-28.7	1.24 H	127	8.00	37.30
6	4924.00	34.2 AV	54.0	-19.8	1.24 H	127	-3.10	37.30
7	7386.00	50.8 PK	74.0	-23.2	1.26 H	219	6.20	44.60
8	7386.00	39.5 AV	54.0	-14.5	1.26 H	219	-5.10	44.60
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	110.7 PK			1.29 V	283	79.40	31.30
2	*2462.00	101.9 AV			1.29 V	283	70.60	31.30
3	2483.50	67.1 PK	74.0	-6.9	1.28 V	274	35.70	31.40
4	2483.50	53.2 AV	54.0	-0.8	1.28 V	274	21.80	31.40
5	4924.00	51.3 PK	74.0	-22.7	1.27 V	244	14.00	37.30
6	4924.00	37.6 AV	54.0	-16.4	1.27 V	244	0.30	37.30
7	7386.00	50.7 PK	74.0	-23.3	1.21 V	273	6.10	44.60
8	7386.00	39.4 AV	54.0	-14.6	1.21 V	273	-5.20	44.60

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- $3. \ \mbox{The other emission levels were very low against the limit.}$
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



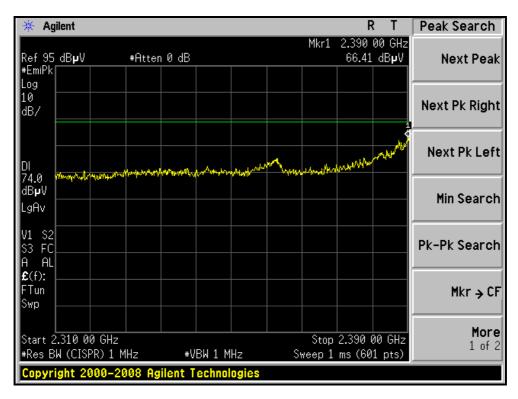
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH1, HORIZONTAL)

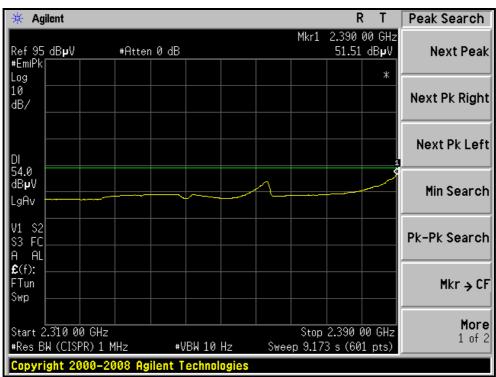






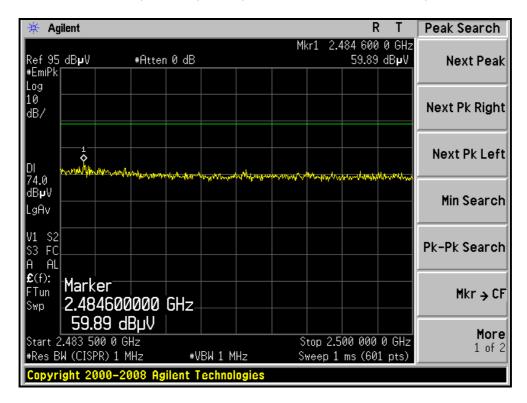
RESTRICTED BANDEDGE (802.11n (20MHz) MODE, CH1, VERTICAL)

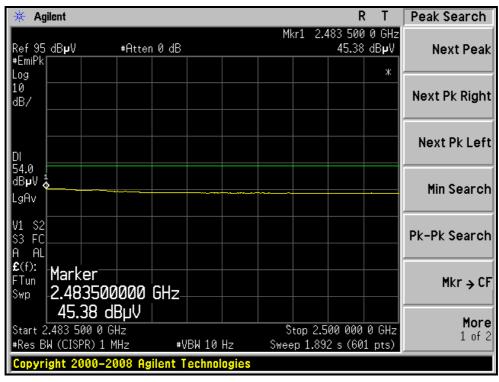






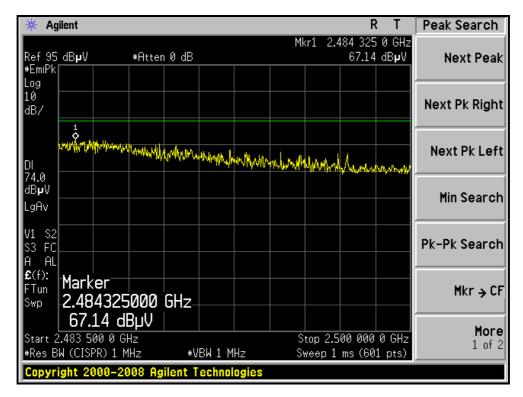
RESTRICTED BANDEDGE (802.11n (20MHz) MODE, CH11, HORIZONTAL)

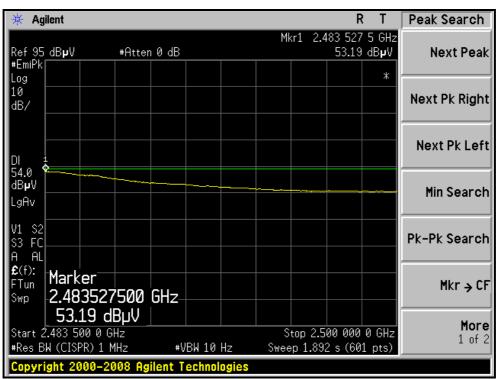






RESTRICTED BANDEDGE (802.11n (20MHz) MODE, CH11, VERTICAL)







802.11n (40MHz) 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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	56.1 PK	74.0	-17.9	1.31 H	69	25.10	31.00
2	2390.00	43.4 AV	54.0	-10.6	1.31 H	69	12.40	31.00
3	*2422.00	97.3 PK			1.31 H	69	66.20	31.10
4	*2422.00	87.2 AV			1.31 H	69	56.10	31.10
5	4844.00	40.2 PK	74.0	-33.8	1.24 H	126	3.00	37.20
6	4844.00	30.7 AV	54.0	-23.3	1.24 H	126	-6.50	37.20
7	7266.00	50.2 PK	74.0	-23.8	1.21 H	214	6.00	44.20
8	7266.00	39.4 AV	54.0	-14.6	1.21 H	214	-4.80	44.20
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	64.6 PK	74.0	-9.4	1.34 V	277	33.60	31.00
2	2390.00	53.1 AV	54.0	-0.9	1.34 V	277	22.10	31.00
3	*2422.00	105.4 PK			1.35 V	283	74.30	31.10
4	*2422.00	97.0 AV			1.35 V	283	65.90	31.10
5	4844.00	43.2 PK	74.0	-30.8	1.24 V	331	6.00	37.20
6	4844.00	33.2 AV	54.0	-20.8	1.24 V	331	-4.00	37.20
7	7266.00	50.8 PK	74.0	-23.2	1.27 V	237	6.60	44.20
8	7266.00	39.9 AV	54.0	-14.1	1.27 V	237	-4.30	44.20

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	*2437.00	97.9 PK			1.29 H	74	66.70	31.20		
2	*2437.00	87.6 AV			1.29 H	74	56.40	31.20		
3	4874.00	40.9 PK	74.0	-33.1	1.29 H	127	3.70	37.20		
4	4874.00	31.4 AV	54.0	-22.6	1.29 H	127	-5.80	37.20		
5	7311.00	50.4 PK	74.0	-23.6	1.26 H	219	6.00	44.40		
6	7311.00	39.2 AV	54.0	-14.8	1.26 H	219	-5.20	44.40		
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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)		
NO .	FREQ. (MHz) 2390.00	LEVEL		MARGIN (dB) -10.3		ANGLE		FACTOR		
	,	LEVEL (dBuV/m)	(dBuV/m)	,	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)		
1	2390.00	LEVEL (dBuV/m) 63.7 PK	(dBuV/m) 74.0	-10.3	HEIGHT (m) 1.35 V	ANGLE (Degree)	(dBuV) 32.70	FACTOR (dB/m) 31.00		
1 2	2390.00 2390.00	LEVEL (dBuV/m) 63.7 PK 51.3 AV	(dBuV/m) 74.0	-10.3	1.35 V 1.35 V	ANGLE (Degree) 278 278	(dBuV) 32.70 20.30	FACTOR (dB/m) 31.00 31.00		
1 2 3	2390.00 2390.00 *2437.00	LEVEL (dBuV/m) 63.7 PK 51.3 AV 108.2 PK	(dBuV/m) 74.0	-10.3	1.35 V 1.35 V 1.35 V	ANGLE (Degree) 278 278 283	(dBuV) 32.70 20.30 77.00	FACTOR (dB/m) 31.00 31.00 31.20		
1 2 3 4	2390.00 2390.00 *2437.00 *2437.00	LEVEL (dBuV/m) 63.7 PK 51.3 AV 108.2 PK 98.9 AV	(dBuV/m) 74.0 54.0	-10.3 -2.7	1.35 V 1.35 V 1.33 V 1.33 V	278 278 278 283 283	(dBuV) 32.70 20.30 77.00 67.70	FACTOR (dB/m) 31.00 31.00 31.20 31.20		
1 2 3 4 5	2390.00 2390.00 *2437.00 *2437.00 4874.00	LEVEL (dBuV/m) 63.7 PK 51.3 AV 108.2 PK 98.9 AV 43.7 PK	(dBuV/m) 74.0 54.0 74.0	-10.3 -2.7 -30.3	1.35 V 1.35 V 1.35 V 1.33 V 1.27 V	ANGLE (Degree) 278 278 283 283 324	(dBuV) 32.70 20.30 77.00 67.70 6.50	FACTOR (dB/m) 31.00 31.00 31.20 31.20 37.20		

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



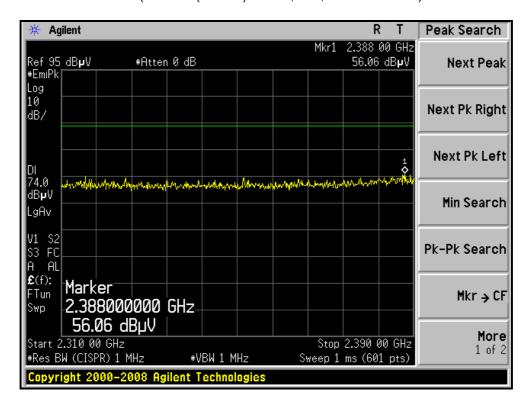
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz			
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

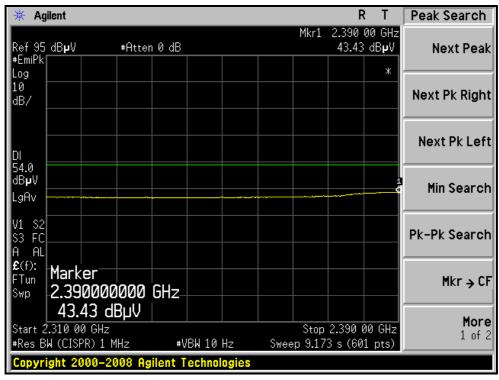
		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	98.1 PK			1.24 H	63	66.90	31.20
2	*2452.00	87.9 AV			1.24 H	63	56.70	31.20
3	2483.50	59.9 PK	74.0	-14.1	1.24 H	63	28.50	31.40
4	2483.50	46.0 AV	54.0	-8.0	1.24 H	63	14.60	31.40
5	4904.00	40.7 PK	74.0	-33.3	1.21 H	126	3.40	37.30
6	4904.00	31.2 AV	54.0	-22.8	1.21 H	126	-6.10	37.30
7	7356.00	50.2 PK	74.0	-23.8	1.24 H	213	5.70	44.50
8	7356.00	39.1 AV	54.0	-14.9	1.24 H	213	-5.40	44.50
		ANTENNA	A POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 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	*2452.00	106.3 PK			1.32 V	282	75.10	31.20
2	*2452.00	97.7 AV			1.32 V	282	66.50	31.20
3	2484.20	63.1 PK	74.0	-10.9	1.30 V	275	31.70	31.40
4	2484.20	51.8 AV	54.0	-2.3	1.30 V	275	20.40	31.40
5	4904.00	44.1 PK	74.0	-29.9	1.23 V	219	6.80	37.30
6	4904.00	34.3 AV	54.0	-19.7	1.23 V	219	-3.00	37.30
7	7356.00	50.4 PK	74.0	-23.6	1.29 V	264	5.90	44.50
8	7356.00	39.6 AV	54.0	-14.4	1.29 V	264	-4.90	44.50

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- $3. \ \mbox{The other emission levels were very low against the limit.}$
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



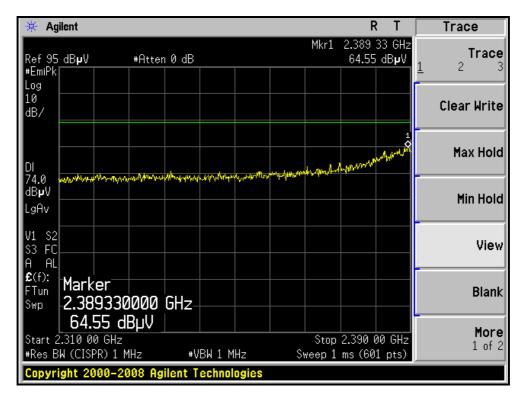
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH1, HORIZONTAL)

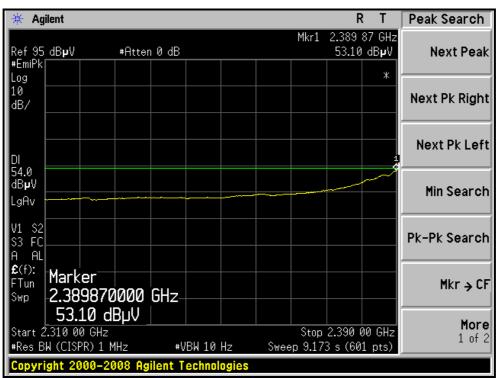






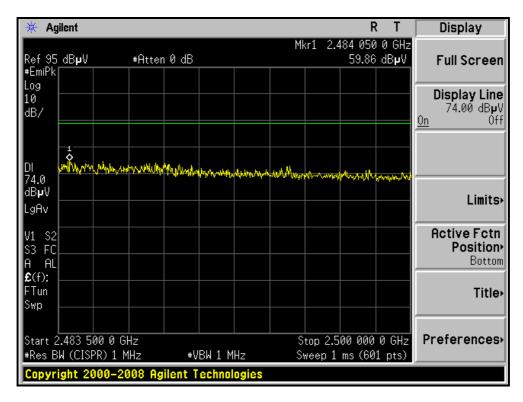
RESTRICTED BANDEDGE (802.11n (40MHz) MODE, CH1, VERTICAL)

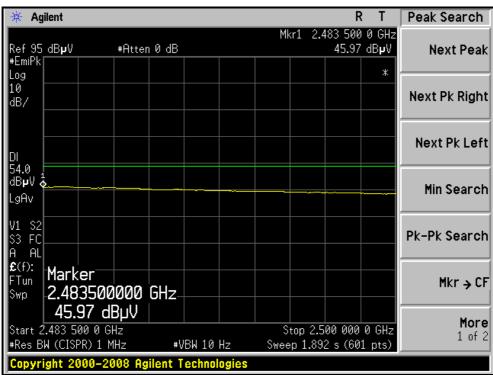






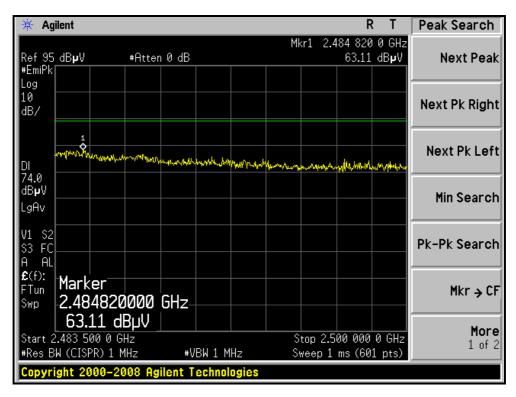
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH7, HORIZONTAL)

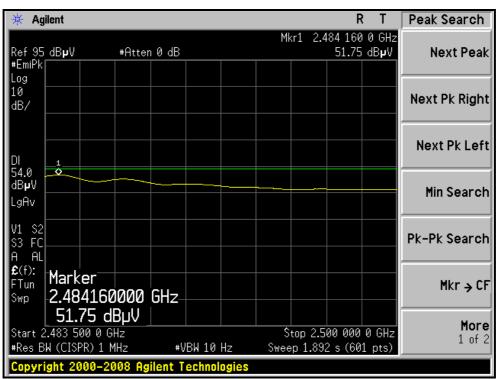






RESTRICTED BANDEDGE (802.11n (40MHz) MODE, CH7, VERTICAL)







4.2.8 TEST RESULTS (With Panel Antenna)

BELOW 1GHz WORST-CASE DATA: 802.11b DSSS 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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA I	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	160.00	23.9 QP	43.5	-19.6	1.54 H	237	8.40	15.47
2	216.00	28.3 QP	43.5	-15.2	1.55 H	104	16.52	11.79
3	360.00	30.7 QP	46.0	-15.3	1.00 H	101	13.52	17.16
4	480.00	35.6 QP	46.0	-10.4	1.10 H	123	15.38	20.23
5	760.09	32.2 QP	46.0	-13.8	1.00 H	19	7.00	25.16
6	960.00	35.3 QP	46.0	-10.7	1.10 H	2	7.19	28.07
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	66.25	32.6 QP	40.0	-7.4	1.00 V	301	20.07	12.53
2	160.00	27.6 QP	43.5	-15.9	1.26 V	120	12.09	15.47
3	360.00	33.0 QP	46.0	-13.0	1.40 V	289	15.87	17.16
4	480.00	29.3 QP	46.0	-16.7	1.00 V	276	9.04	20.23
5	760.09	30.3 QP	46.0	-15.7	1.11 V	351	5.14	25.16
6	960.00	34.8 QP	46.0	-11.2	1.28 V	208	6.77	28.07

- 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.



ABOVE 1GHz WORST-CASE DATA

802.11b DSSS 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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	2386.10	56.4 PK	74.0	-17.6	1.45 H	244	25.40	31.00
2	2386.10	45.3 AV	54.0	-8.7	1.45 H	244	14.30	31.00
3	*2412.00	95.9 PK			1.45 H	244	64.80	31.10
4	*2412.00	91.9 AV			1.45 H	244	60.80	31.10
5	4824.00	47.2 PK	74.0	-26.8	1.09 H	299	10.10	37.10
6	4824.00	46.3 AV	54.0	-7.7	1.09 H	299	9.20	37.10
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	2386.30	60.9 PK	74.0	-13.1	1.36 V	86	29.90	31.00
2	2386.30	52.1 AV	54.0	-1.9	1.36 V	86	21.10	31.00
3	*2412.00	109.3 PK			1.36 V	86	78.20	31.10
4	*2412.00	107.2 AV			1.36 V	86	76.10	31.10
5	4824.00	54.6 PK	74.0	-19.4	1.25 V	95	17.50	37.10
6	4824.00	53.1 AV	54.0	-0.9	1.25 V	95	16.00	37.10

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	*2437.00	95.4 PK			1.44 H	247	64.20	31.20
2	*2437.00	91.6 AV			1.44 H	247	60.40	31.20
3	4874.00	47.1 PK	74.0	-26.9	1.04 H	213	9.90	37.20
4	4874.00	46.2 AV	54.0	-7.8	1.04 H	213	9.00	37.20
5	7311.00	51.7 PK	74.0	-22.3	1.07 H	249	7.30	44.40
6	7311.00	39.4 AV	54.0	-14.6	1.07 H	249	-5.00	44.40
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	*2437.00	109.6 PK			1.36 V	99	78.40	31.20
2	*2437.00	107.3 AV			1.36 V	99	76.10	31.20
3	4874.00	54.0 PK	74.0	-20.0	1.26 V	99	16.80	37.20
4	4874.00	53.2 AV	54.0	-0.8	1.26 V	99	16.00	37.20
5	7311.00	51.3 PK	74.0	-22.7	1.04 V	219	6.90	44.40
6	7311.00	39.4 AV	54.0	-14.6	1.04 V	219	-5.00	44.40

- 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.



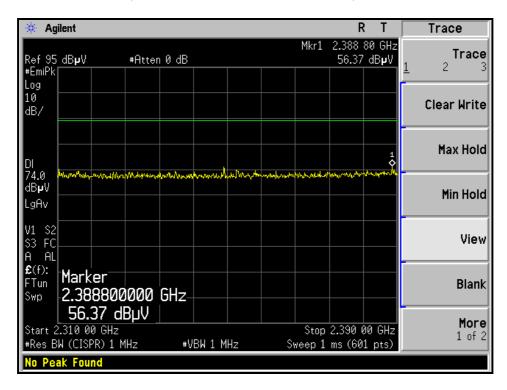
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

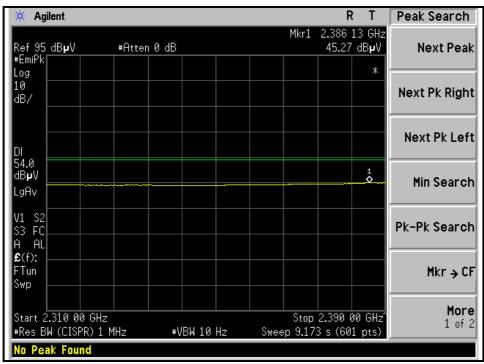
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
		ANTENNA	POLARITY	& IESI DIS	I ANCE: HO	RIZUNTAL	AIJW		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2462.00	95.4 PK			1.44 H	243	64.10	31.30	
2	*2462.00	91.2 AV			1.44 H	243	59.90	31.30	
3	2486.90	55.8 PK	74.0	-18.2	1.44 H	243	24.40	31.40	
4	2486.90	42.8 AV	54.0	-11.2	1.44 H	243	11.40	31.40	
5	4924.00	47.4 PK	74.0	-26.6	1.03 H	257	10.10	37.30	
6	4924.00	46.4 AV	54.0	-7.6	1.03 H	257	9.10	37.30	
7	7386.00	51.9 PK	74.0	-22.1	1.04 H	247	7.30	44.60	
8	7386.00	39.6 AV	54.0	-14.4	1.04 H	247	-5.00	44.60	
		ANTENNA	A POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 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	109.4 PK			1.37 V	266	78.10	31.30	
2	*2462.00	107.1 AV			1.37 V	266	75.80	31.30	
3	2487.80	62.0 PK	74.0	-12.0	1.35 V	266	30.60	31.40	
4	2487.80	53.3 AV	54.0	-0.7	1.35 V	266	21.90	31.40	
5	4924.00	55.2 PK	74.0	-18.8	1.10 V	92	17.90	37.30	
6	4924.00	53.2 AV	54.0	-0.8	1.10 V	92	15.90	37.30	
7	7386.00	51.6 PK	74.0	-22.4	1.03 V	211	7.00	44.60	
8	7386.00	39.6 AV	54.0	-14.4	1.03 V	211	-5.00	44.60	

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- $3. \ \mbox{The other emission levels were very low against the limit.}$
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



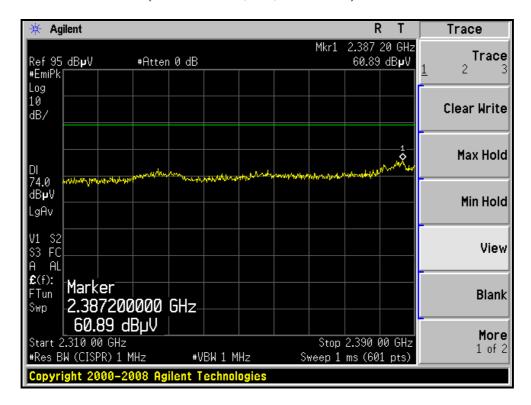
RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)

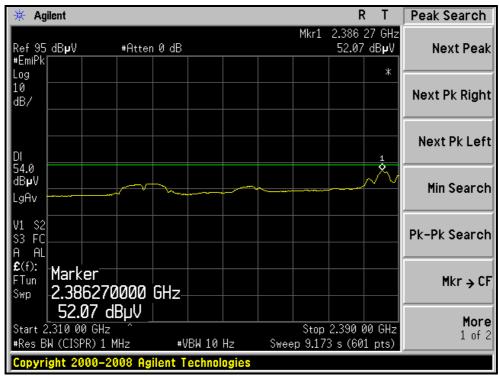






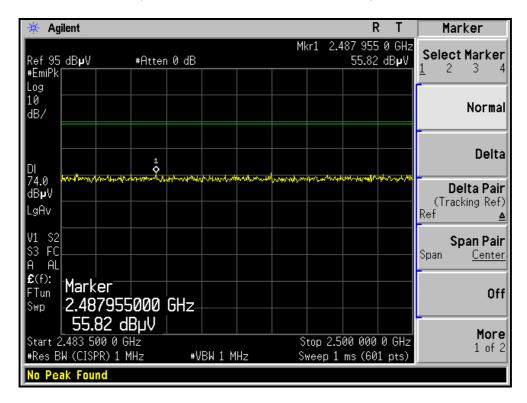
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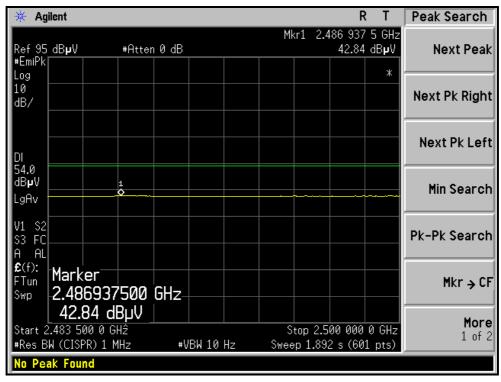






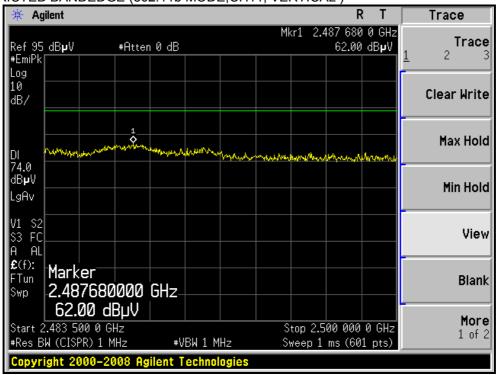
RESTRICTED BANDEDGE (802.11b MODE, CH11, HORIZONTAL)

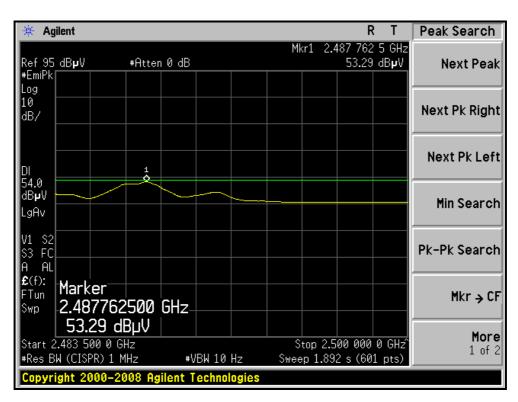






RESTRICTED BANDEDGE (802.11b MODE, CH11, VERTICAL)







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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	57.4 PK	74.0	-16.6	1.36 H	249	26.40	31.00
2	2390.00	45.1 AV	54.0	-8.9	1.36 H	249	14.10	31.00
3	*2412.00	95.3 PK			1.36 H	249	64.20	31.10
4	*2412.00	86.4 AV			1.36 H	249	55.30	31.10
5	4824.00	50.6 PK	74.0	-23.4	1.14 H	247	13.50	37.10
6	4824.00	35.4 AV	54.0	-18.6	1.14 H	247	-1.70	37.10
		ANTENNA	A POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 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	68.0 PK	74.0	-6.0	1.36 V	116	37.00	31.00
2	2390.00	53.0 AV	54.0	-1.0	1.36 V	116	22.00	31.00
3	*2412.00	112.4 PK			1.36 V	116	81.30	31.10
4	*2412.00	102.8 AV			1.36 V	116	71.70	31.10
5	4824.00	54.3 PK	74.0	-19.7	1.10 V	253	17.20	37.10
6	4824.00	42.7 AV	54.0	-11.3	1.10 V	253	5.60	37.10

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	*2437.00	94.7 PK			1.32 H	243	63.50	31.20
2	*2437.00	85.4 AV			1.32 H	243	54.20	31.20
3	4874.00	50.4 PK	74.0	-23.6	1.09 H	241	13.20	37.20
4	4874.00	35.2 AV	54.0	-18.8	1.09 H	241	-2.00	37.20
5	7311.00	50.6 PK	74.0	-23.4	1.07 H	209	6.20	44.40
6	7311.00	39.3 AV	54.0	-14.7	1.07 H	209	-5.10	44.40
		ANTENNA	A POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 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	*2437.00	111.1 PK			1.27 V	108	79.90	31.20
2	*2437.00	102.4 AV			1.27 V	108	71.20	31.20
3	2484.80	62.3 PK	74.0	-11.7	1.37 V	86	30.90	31.40
4	2484.80	53.1 AV	54.0	-0.9	1.37 V	86	21.70	31.40
5	2489.20	64.3 PK	74.0	-9.7	1.33 V	96	32.90	31.40
6	2489.20	53.1 AV	54.0	-0.9	1.33 V	96	21.70	31.40
7	4874.00	54.1 PK	74.0	-19.9	1.10 V	269	16.90	37.20
8	4874.00	42.5 AV	54.0	-11.5	1.10 V	269	5.30	37.20
9	7311.00	51.8 PK	74.0	-22.2	1.04 V	212	7.40	44.40
10	7311.00	39.7 AV	54.0	-14.3	1.04 V	212	-4.70	44.40

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- $3. \ \mbox{The other emission levels were very low against the limit.}$
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



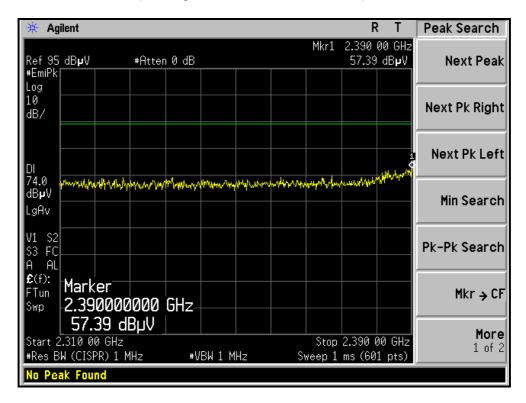
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

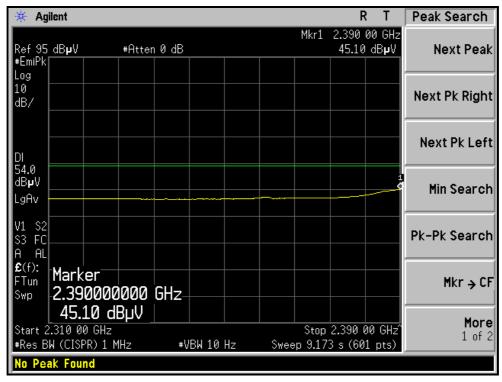
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2462.00	96.4 PK			1.34 H	247	65.10	31.30		
2	*2462.00	87.7 AV			1.34 H	247	56.40	31.30		
3	2483.50	55.6 PK	74.0	-18.4	1.44 H	187	24.20	31.40		
4	2483.50	44.0 AV	54.0	-10.0	1.44 H	187	12.60	31.40		
5	4924.00	50.8 PK	74.0	-23.2	1.07 H	244	13.50	37.30		
6	4924.00	35.4 AV	54.0	-18.6	1.07 H	244	-1.90	37.30		
7	7386.00	50.9 PK	74.0	-23.1	1.06 H	213	6.30	44.60		
8	7386.00	39.5 AV	54.0	-14.5	1.06 H	213	-5.10	44.60		
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	111.7 PK			1.31 V	276	80.40	31.30		
2	*2462.00	102.8 AV			1.31 V	276	71.50	31.30		
3	2484.30	69.1 PK	74.0	-4.9	1.31 V	276	37.70	31.40		
4	2484.30	53.1 AV	54.0	-0.9	1.31 V	276	21.70	31.40		
5	4924.00	54.6 PK	74.0	-19.4	1.13 V	257	17.30	37.30		
6	4924.00	42.4 AV	54.0	-11.6	1.13 V	257	5.10	37.30		
7	7386.00	51.7 PK	74.0	-22.3	1.07 V	219	7.10	44.60		
8	7386.00	39.4 AV	54.0	-14.6	1.07 V	219	-5.20	44.60		

- 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.



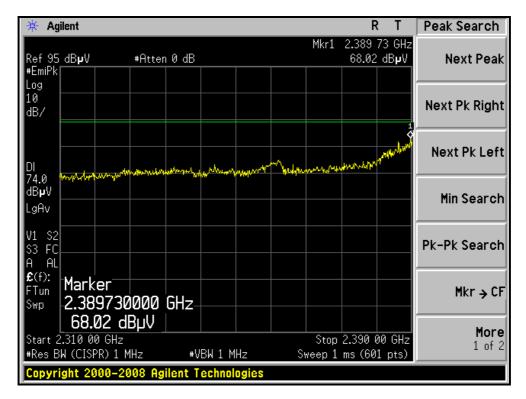
RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)

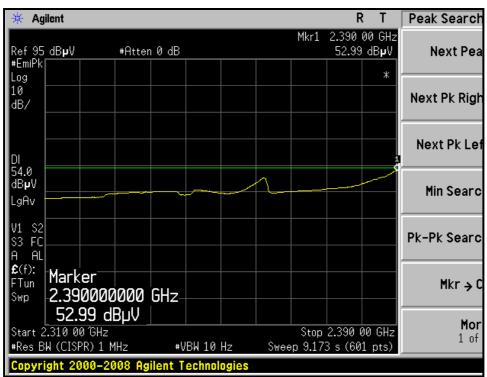






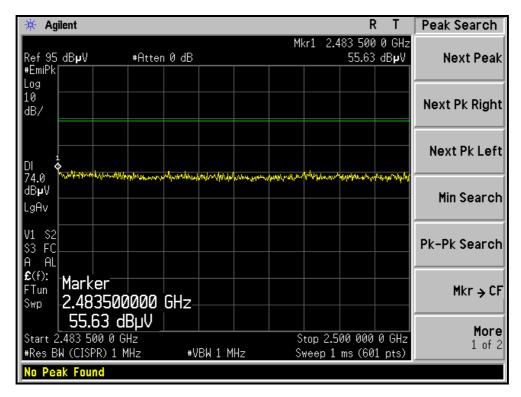
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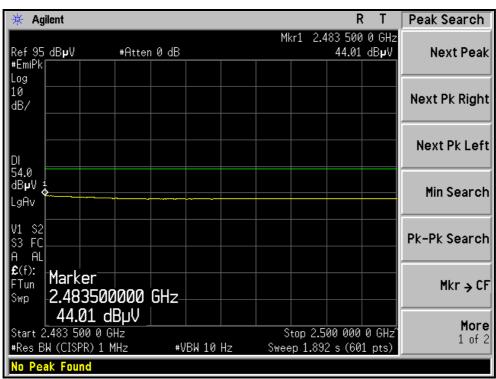






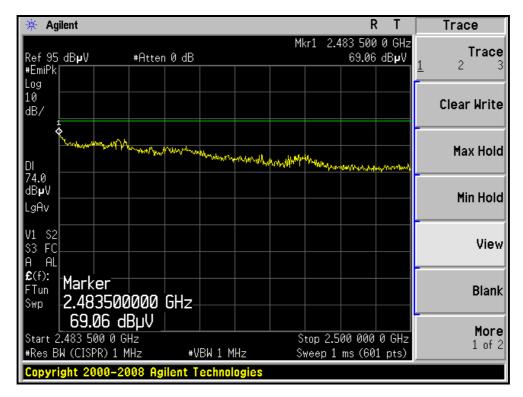
RESTRICTED BANDEDGE (802.11g MODE, CH11, HORIZONTAL)

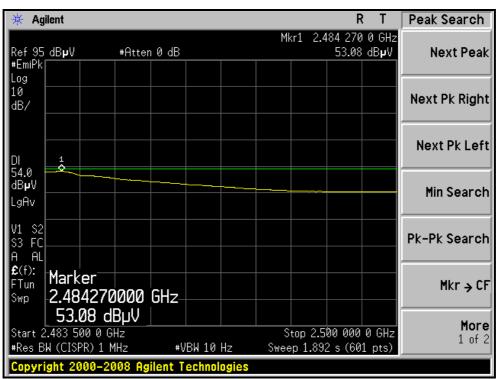






RESTRICTED BANDEDGE (802.11g MODE, CH11, VERTICAL)







802.11n (20MHz) 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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	58.0 PK	74.0	-16.0	1.31 H	244	27.00	31.00	
2	2390.00	45.2 AV	54.0	-8.8	1.31 H	244	14.20	31.00	
3	*2412.00	94.7 PK			1.31 H	244	63.60	31.10	
4	*2412.00	85.2 AV			1.31 H	244	54.10	31.10	
5	4824.00	50.6 PK	74.0	-23.4	1.07 H	243	13.50	37.10	
6	4824.00	35.9 AV	54.0	-18.1	1.07 H	243	-1.20	37.10	
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ. (MHz)		LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE	RAW VALUE (dBuV)	CORRECTION	
		(dBuV/m)			,	(Degree)	()	(dB/m)	
1	2390.00	68.1 PK	74.0	-5.9	1.37 V	(Degree) 276	37.10	(dB/m) 31.00	
1 2	2390.00 2390.00	,	74.0 54.0	-5.9 -0.7	` '	, ,	` ′	,	
		68.1 PK			1.37 V	276	37.10	31.00	
2	2390.00	68.1 PK 53.3 AV			1.37 V 1.37 V	276 276	37.10 22.30	31.00 31.00	
2	2390.00 *2412.00	68.1 PK 53.3 AV 110.3 PK			1.37 V 1.37 V 1.37 V	276 276 276	37.10 22.30 79.20	31.00 31.00 31.10	

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	*2437.00	93.9 PK			1.27 H	244	62.70	31.20		
2	*2437.00	85.1 AV			1.27 H	244	53.90	31.20		
3	4874.00	50.2 PK	74.0	-23.8	1.06 H	244	13.00	37.20		
4	4874.00	35.4 AV	54.0	-18.6	1.06 H	244	-1.80	37.20		
5	7311.00	50.5 PK	74.0	-23.5	1.04 H	213	6.10	44.40		
6	7311.00	39.7 AV	54.0	-14.3	1.04 H	213	-4.70	44.40		
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL	LIMIT	MARGIN (dB)	ANTENNA	TABLE	RAW VALUE	CORRECTION		
	TREG. (MIIZ)	(dBuV/m)	(dBuV/m)	WARGIN (UB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)		
1	2385.20		(dBuV/m) 74.0	-11.7	1.37 V		(dBuV) 31.40			
1 2	,	(dBuV/m)	, ,	, ,	` '	(Degree)	, ,	(dB/m)		
	2385.20	(dBuV/m) 62.3 PK	74.0	-11.7	1.37 V	(Degree)	31.40	(dB/m) 30.90		
2	2385.20 2385.20	(dBuV/m) 62.3 PK 53.2 AV	74.0	-11.7	1.37 V 1.37 V	(Degree) 98 98	31.40 22.30	(dB/m) 30.90 30.90		
2	2385.20 2385.20 *2437.00	(dBuV/m) 62.3 PK 53.2 AV 109.7 PK	74.0	-11.7	1.37 V 1.37 V 1.34 V	(Degree) 98 98 243	31.40 22.30 78.50	(dB/m) 30.90 30.90 31.20		
2 3 4	2385.20 2385.20 *2437.00 *2437.00	(dBuV/m) 62.3 PK 53.2 AV 109.7 PK 100.2 AV	74.0 54.0	-11.7 -0.8	1.37 V 1.37 V 1.34 V 1.34 V	98 98 243 243	31.40 22.30 78.50 69.00	(dB/m) 30.90 30.90 31.20 31.20		
2 3 4 5	2385.20 2385.20 *2437.00 *2437.00 2488.80	(dBuV/m) 62.3 PK 53.2 AV 109.7 PK 100.2 AV 62.1 PK	74.0 54.0 74.0	-11.7 -0.8	1.37 V 1.37 V 1.34 V 1.34 V 1.33 V	98 98 98 243 243 97	31.40 22.30 78.50 69.00 30.70	(dB/m) 30.90 30.90 31.20 31.20 31.40		
2 3 4 5 6	2385.20 2385.20 *2437.00 *2437.00 2488.80 2488.80	(dBuV/m) 62.3 PK 53.2 AV 109.7 PK 100.2 AV 62.1 PK 52.4 AV	74.0 54.0 74.0 54.0	-11.7 -0.8 -11.9 -1.6	1.37 V 1.37 V 1.34 V 1.34 V 1.33 V 1.33 V	98 98 98 243 243 97	31.40 22.30 78.50 69.00 30.70 21.00	(dB/m) 30.90 30.90 31.20 31.20 31.40		
2 3 4 5 6 7	2385.20 2385.20 *2437.00 *2437.00 2488.80 2488.80 4874.00	(dBuV/m) 62.3 PK 53.2 AV 109.7 PK 100.2 AV 62.1 PK 52.4 AV 53.7 PK	74.0 54.0 74.0 54.0 74.0	-11.7 -0.8 -11.9 -1.6 -20.3	1.37 V 1.37 V 1.34 V 1.34 V 1.33 V 1.33 V 1.06 V	98 98 243 243 97 97 259	31.40 22.30 78.50 69.00 30.70 21.00 16.50	(dB/m) 30.90 30.90 31.20 31.20 31.40 31.40 37.20		

- 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.



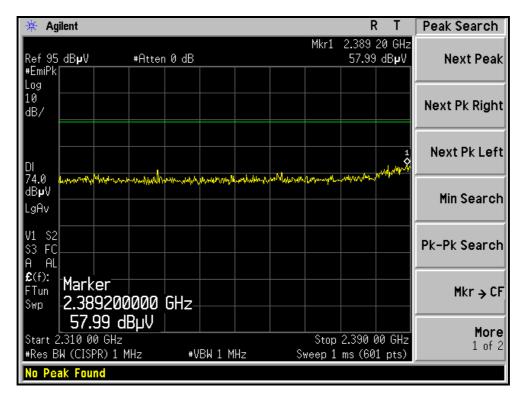
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

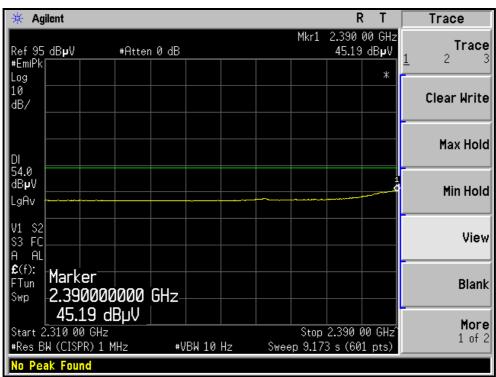
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
		ANTENNA	POLARITY	& IESI DIS	I ANCE: HO	RIZONTAL	AIJW		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2462.00	94.6 PK			1.31 H	249	63.30	31.30	
2	*2462.00	85.4 AV			1.31 H	249	54.10	31.30	
3	2483.50	55.8 PK	74.0	-18.2	1.31 H	249	24.40	31.40	
4	2483.50	43.5 AV	54.0	-10.5	1.31 H	249	12.10	31.40	
5	4924.00	50.1 PK	74.0	-23.9	1.04 H	241	12.80	37.30	
6	4924.00	35.1 AV	54.0	-18.9	1.04 H	241	-2.20	37.30	
7	7386.00	50.4 PK	74.0	-23.6	1.05 H	211	5.80	44.60	
8	7386.00	39.6 AV	54.0	-14.4	1.05 H	211	-5.00	44.60	
		ANTENNA	POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 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	110.8 PK			1.35 V	276	79.50	31.30	
2	*2462.00	101.7 AV			1.35 V	276	70.40	31.30	
3	2483.50	67.6 PK	74.0	-6.4	1.31 V	275	36.20	31.40	
4	2483.50	53.0 AV	54.0	-1.0	1.31 V	275	21.60	31.40	
5	4924.00	54.1 PK	74.0	-19.9	1.07 V	267	16.80	37.30	
6	4924.00	41.6 AV	54.0	-12.4	1.07 V	267	4.30	37.30	
7	7386.00	50.9 PK	74.0	-23.1	1.04 V	213	6.30	44.60	
8	7386.00	39.6 AV	54.0	-14.4	1.04 V	213	-5.00	44.60	

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- $3. \ \mbox{The other emission levels were very low against the limit.}$
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



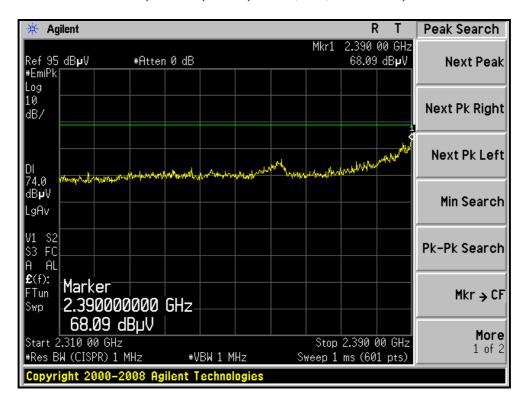
RESTRICTED BANDEDGE (802.11n (20MHz) MODE,CH1, HORIZONTAL)

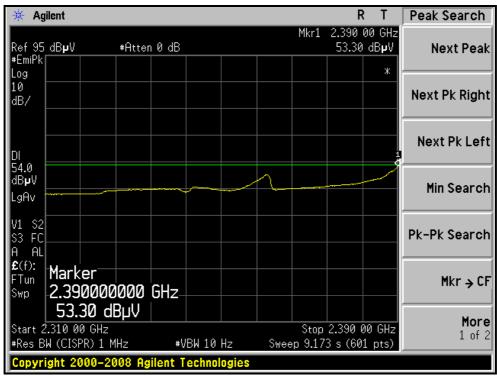






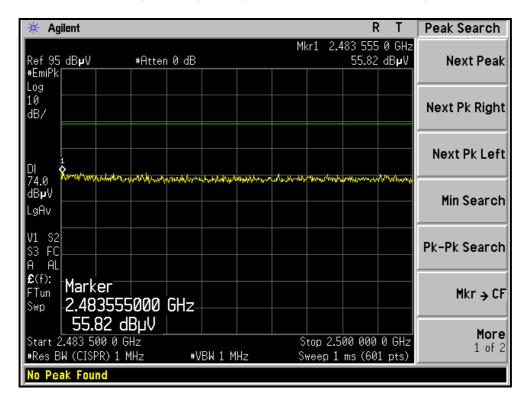
RESTRICTED BANDEDGE (802.11n (20MHz) MODE, CH1, VERTICAL)

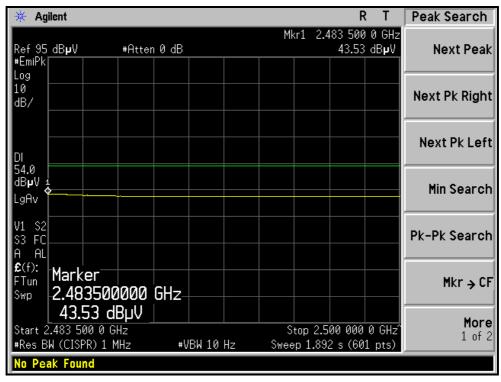






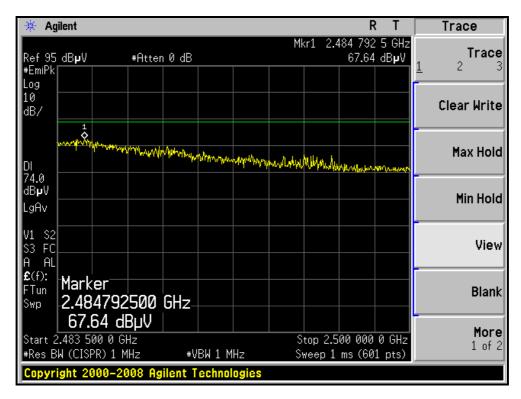
RESTRICTED BANDEDGE (802.11n (20MHz) MODE, CH11, HORIZONTAL)

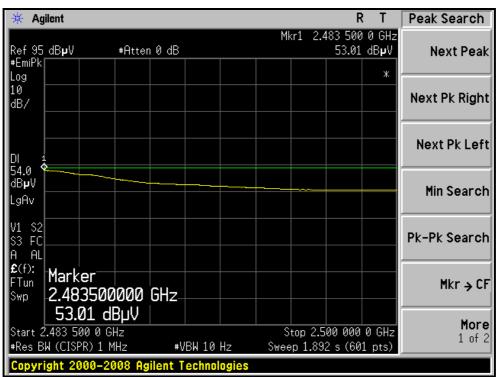






RESTRICTED BANDEDGE (802.11n (20MHz) MODE, CH11, VERTICAL)







802.11n (40MHz) 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	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	55.8 PK	74.0	-18.2	1.45 H	246	24.80	31.00
2	2390.00	43.2 AV	54.0	-10.8	1.45 H	246	12.20	31.00
3	*2422.00	91.5 PK			1.45 H	244	60.40	31.10
4	*2422.00	82.6 AV			1.45 H	244	51.50	31.10
5	4844.00	47.9 PK	74.0	-26.1	1.03 H	244	10.70	37.20
6	4844.00	31.4 AV	54.0	-22.6	1.03 H	244	-5.80	37.20
7	7266.00	50.4 PK	74.0	-23.6	1.06 H	257	6.20	44.20
8	7266.00	39.8 AV	54.0	-14.2	1.06 H	257	-4.40	44.20
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	64.9 PK	74.0	-9.1	1.38 V	265	33.90	31.00
2	2390.00	53.3 AV	54.0	-0.7	1.38 V	265	22.30	31.00
3	*2422.00	107.6 PK			1.36 V	265	76.50	31.10
4	*2422.00	98.0 AV			1.36 V	265	66.90	31.10
5	4844.00	51.2 PK	74.0	-22.8	1.14 V	257	14.00	37.20
6	4844.00	35.9 AV	54.0	-18.1	1.14 V	257	-1.30	37.20
7	7266.00	50.8 PK	74.0	-23.2	1.06 V	214	6.60	44.20
8	7266.00	39.7 AV	54.0	-14.3	1.06 V	214	-4.50	44.20

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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 4 FREQUENCY RANGE		1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

	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	*2437.00	93.6 PK			1.44 H	247	62.40	31.20
2	*2437.00	84.7 AV			1.44 H	247	53.50	31.20
3	4874.00	47.3 PK	74.0	-26.7	1.03 H	219	10.10	37.20
4	4874.00	31.2 AV	54.0	-22.8	1.03 H	219	-6.00	37.20
5	7311.00	50.2 PK	74.0	-23.8	1.03 H	211	5.80	44.40
6	7311.00	39.6 AV	54.0	-14.4	1.03 H	211	-4.80	44.40
		ANTENNA	A POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)
NO .	FREQ. (MHz) 2390.00	LEVEL		MARGIN (dB)		ANGLE		FACTOR
	, i	LEVEL (dBuV/m)	(dBuV/m)	,	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)
1	2390.00	LEVEL (dBuV/m) 66.6 PK	(dBuV/m) 74.0	-7.4	HEIGHT (m) 1.27 V	ANGLE (Degree)	(dBuV) 35.60	FACTOR (dB/m) 31.00
1 2	2390.00 2390.00	LEVEL (dBuV/m) 66.6 PK 52.8 AV	(dBuV/m) 74.0	-7.4	1.27 V 1.27 V	ANGLE (Degree) 249 249	(dBuV) 35.60 21.80	FACTOR (dB/m) 31.00 31.00
1 2 3	2390.00 2390.00 *2437.00	LEVEL (dBuV/m) 66.6 PK 52.8 AV 109.1 PK	(dBuV/m) 74.0	-7.4	1.27 V 1.27 V 1.27 V	ANGLE (Degree) 249 249 249	(dBuV) 35.60 21.80 77.90	FACTOR (dB/m) 31.00 31.00 31.20
1 2 3 4	2390.00 2390.00 *2437.00 *2437.00	LEVEL (dBuV/m) 66.6 PK 52.8 AV 109.1 PK 100.8 AV	(dBuV/m) 74.0 54.0	-7.4 -1.2	1.27 V 1.27 V 1.27 V 1.27 V	ANGLE (Degree) 249 249 249 249 249	(dBuV) 35.60 21.80 77.90 69.60	FACTOR (dB/m) 31.00 31.00 31.20 31.20
1 2 3 4 5	2390.00 2390.00 *2437.00 *2437.00 4874.00	LEVEL (dBuV/m) 66.6 PK 52.8 AV 109.1 PK 100.8 AV 50.8 PK	(dBuV/m) 74.0 54.0 74.0	-7.4 -1.2 -23.2	1.27 V 1.27 V 1.27 V 1.27 V 1.27 V 1.13 V	ANGLE (Degree) 249 249 249 249 249 249	(dBuV) 35.60 21.80 77.90 69.60 13.60	FACTOR (dB/m) 31.00 31.00 31.20 31.20 37.20

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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 7 FREQUENCY RANGE		1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1012 hPa	TESTED BY	Frank Liu	

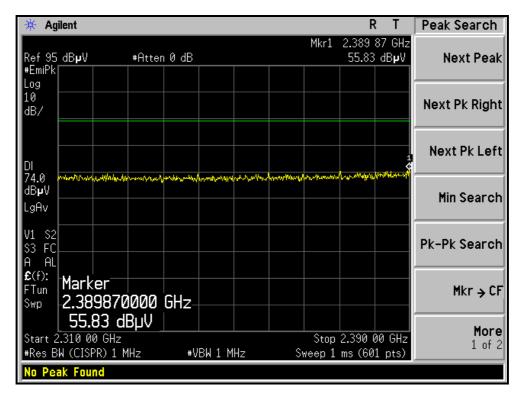
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	92.2 PK			1.36 H	244	61.00	31.20
2	*2452.00	82.6 AV			1.36 H	244	51.40	31.20
3	2483.50	56.3 PK	74.0	-17.7	1.37 H	244	24.90	31.40
4	2483.50	45.2 AV	54.0	-8.8	1.37 H	244	13.80	31.40
5	4904.00	47.4 PK	74.0	-26.6	1.06 H	243	10.10	37.30
6	4904.00	31.3 AV	54.0	-22.7	1.06 H	243	-6.00	37.30
7	7356.00	50.7 PK	74.0	-23.3	1.04 H	219	6.20	44.50
8	7356.00	39.4 AV	54.0	-14.6	1.04 H	219	-5.10	44.50
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	*2452.00	107.0 PK			1.38 V	251	75.80	31.20
2	*2452.00	97.1 AV			1.38 V	251	65.90	31.20
3	2484.30	63.9 PK	74.0	-10.1	1.35 V	250	32.50	31.40
4	2484.30	52.0 AV	54.0	-2.0	1.35 V	250	20.60	31.40
5	4904.00	50.4 PK	74.0	-23.6	1.14 V	243	13.10	37.30
6	4904.00	35.6 AV	54.0	-18.4	1.14 V	243	-1.70	37.30
7	7356.00	51.9 PK	74.0	-22.1	1.06 V	213	7.40	44.50
8	7356.00	39.7 AV	54.0	-14.3	1.06 V	213	-4.80	44.50

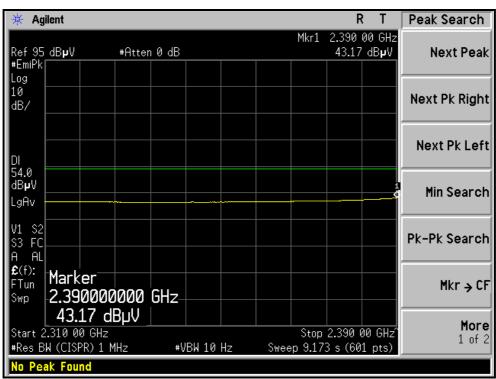
REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

- 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.



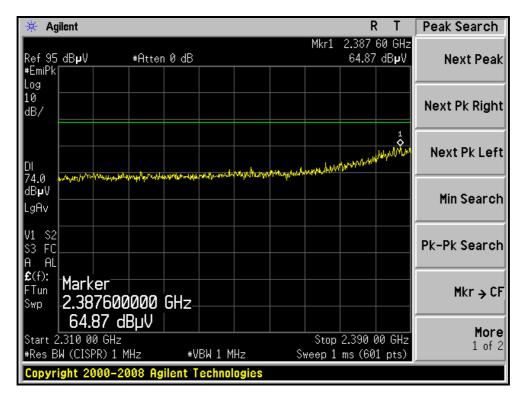
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH1, HORIZONTAL)

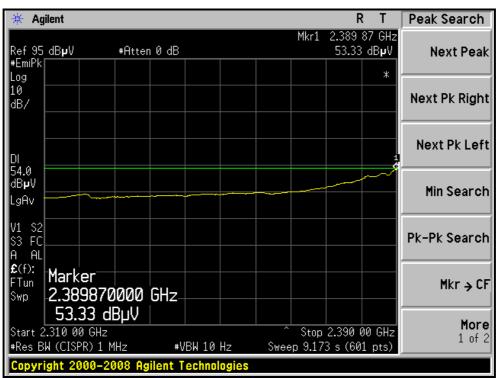






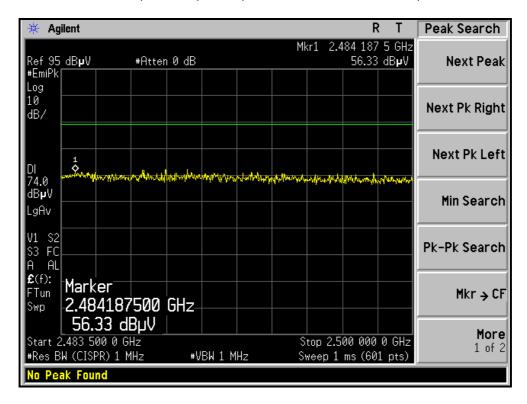
RESTRICTED BANDEDGE (802.11n (40MHz) MODE, CH1, VERTICAL)

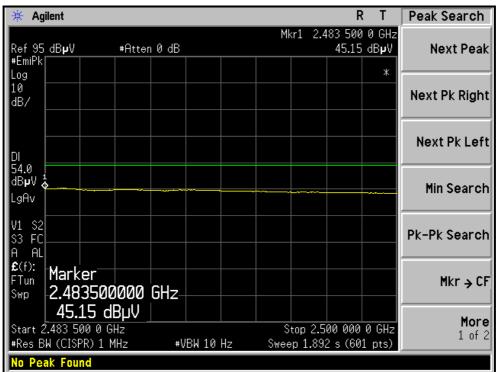






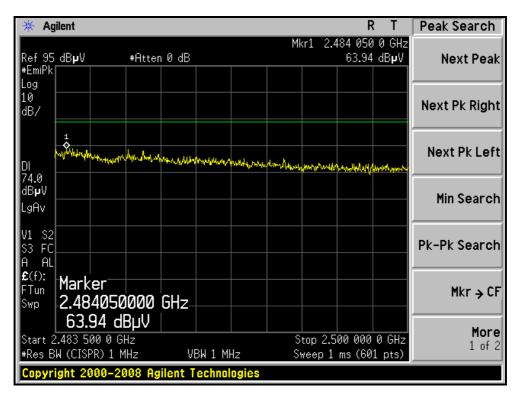
RESTRICTED BANDEDGE (802.11n (40MHz) MODE,CH7, HORIZONTAL)

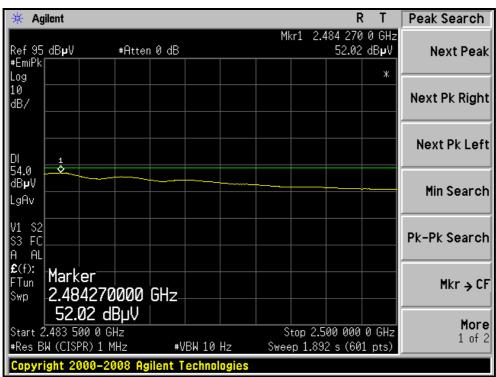






RESTRICTED BANDEDGE (802.11n (40MHz) MODE, CH7, VERTICAL)







4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010

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

4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

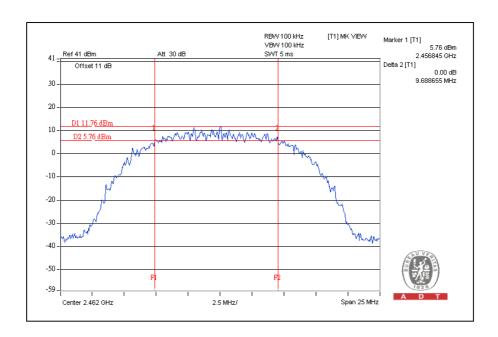
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

802.11b DSSS MODULATION:

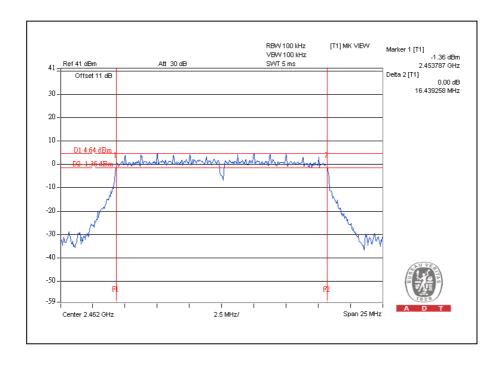
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	8.90	0.5	PASS
6	2437	9.66	0.5	PASS
11	2462	9.68	0.5	PASS





802.11g OFDM MODULATION:

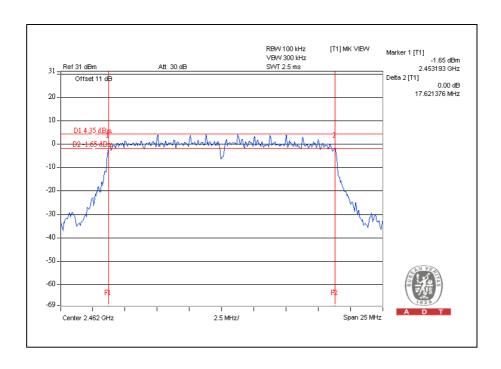
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.41	0.5	PASS
6	2437	16.42	0.5	PASS
11	2462	16.43	0.5	PASS





802.11n (20MHz) OFDM MODULATION:

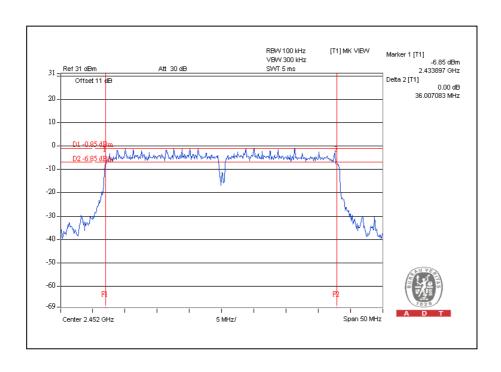
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.59	0.5	PASS
6	2437	17.26	0.5	PASS
11	2462	17.62	0.5	PASS





802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2422	35.78	0.5	PASS
4	2437	35.85	0.5	PASS
7	2452	36.00	0.5	PASS





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 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.

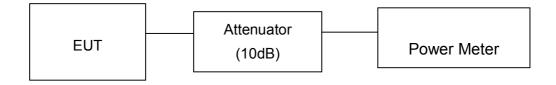
4.4.3 TEST PROCEDURES

- 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.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

802.11b DSSS MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	87.1	19.4	29	PASS
6	2437	141.3	21.5	29	PASS
11	2462	199.5	23.0	29	PASS

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	575.4	27.6	29	PASS
6	2437	524.8	27.2	29	PASS
11	2462	562.3	27.5	29	PASS

802.11n (20MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	512.9	27.1	29	PASS
6	2437	380.2	25.8	29	PASS
11	2462	537.0	27.3	29	PASS

802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2422	218.8	23.4	29	PASS
4	2437	407.4	26.1	29	PASS
7	2452	363.1	25.6	29	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40		Dec. 18, 2009	Dec. 17, 2010

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

4.5.3 TEST PROCEDURE

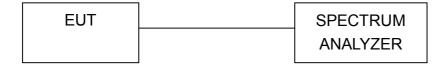
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

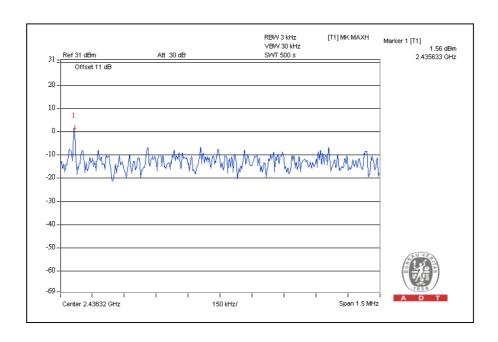
Same as Item 4.3.6



4.5.7 TEST RESULTS

802.11b DSSS MODULATION:

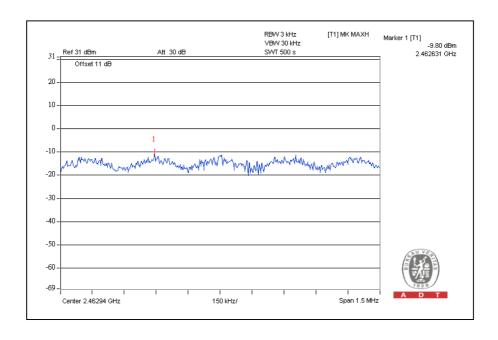
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-6.90	8	PASS
6	2437	1.60	8	PASS
11	2462	-3.70	8	PASS





802.11g OFDM MODULATION:

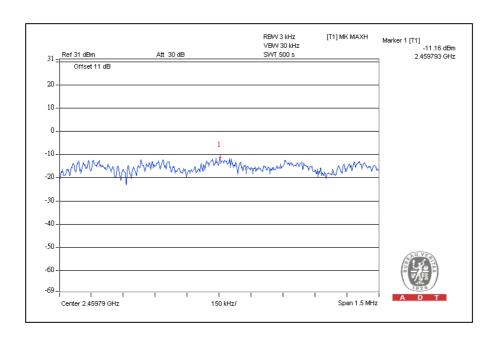
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-11.20	8	PASS
6	2437	-12.10	8	PASS
11	2462	-9.80	8	PASS





802.11n (20MHz) OFDM MODULATION:

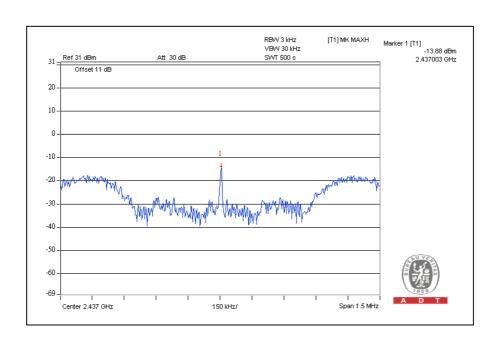
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-12.00	8	PASS
6	2437	-13.00	8	PASS
11	2462	-11.20	8	PASS





802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2422	-16.20	8	PASS
4	2437	-13.90	8	PASS
7	2452	-15.70	8	PASS





4.6 CONDUCTED OUT-BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT-BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010

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

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set RBW of spectrum analyzer to 100kHz and VBW of spectrum analyzer to 300kHz with suitable frequency span including 100MHz or 200MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (RBW = 100kHz, VBW = 300kHz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

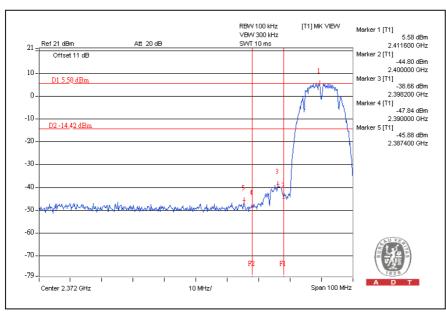
4.6.6 TEST RESULTS

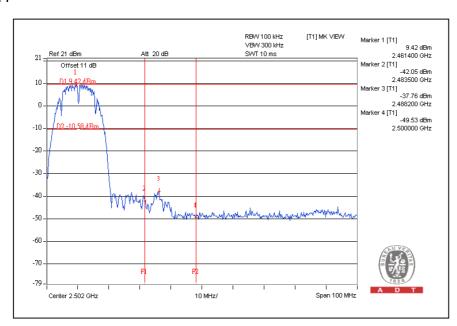
The spectrum plots are attached on the following images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).



802.11b DSSS MODULATION:

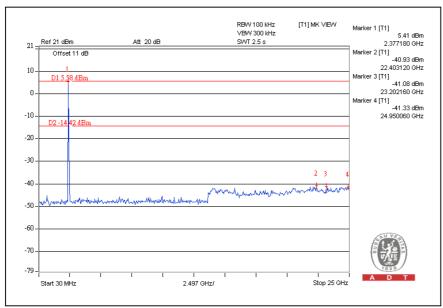
CH1

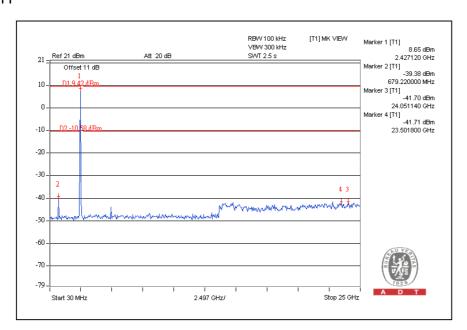






CH1

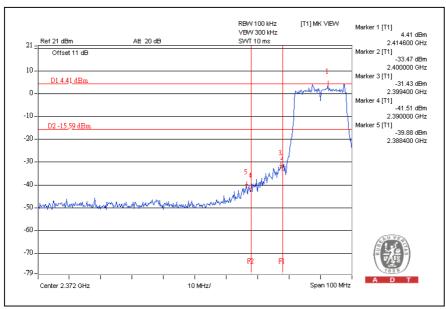


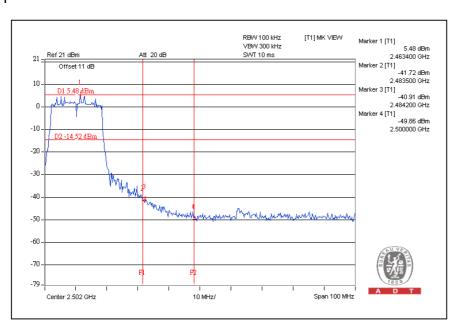




802.11g OFDM MODULATION:

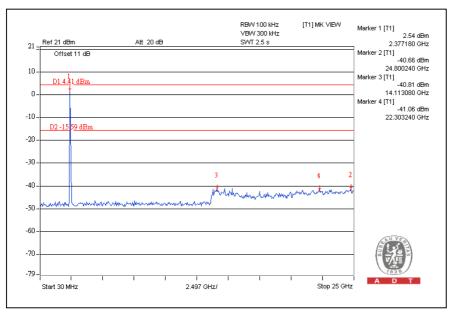
CH1

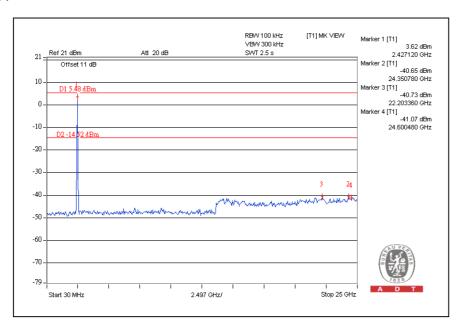






CH1

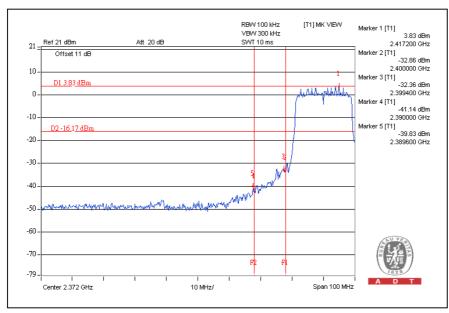


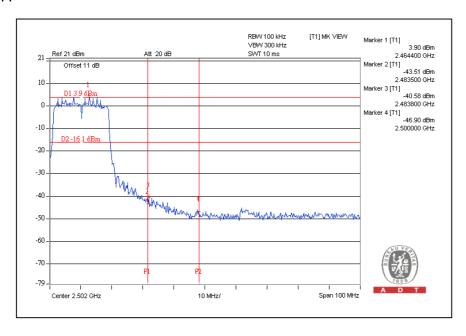




802.11n (20MHz) OFDM MODULATION:

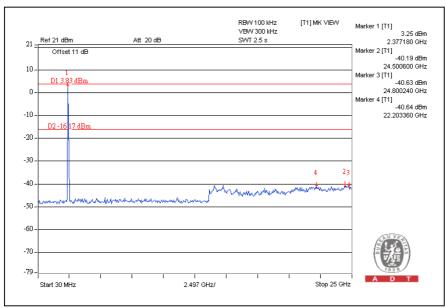
CH1

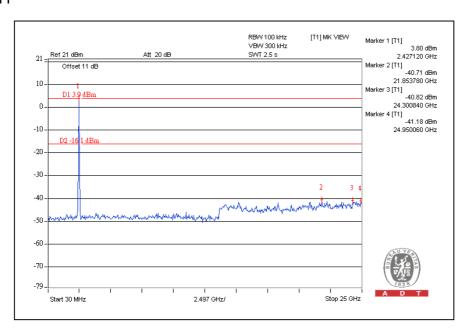






CH1

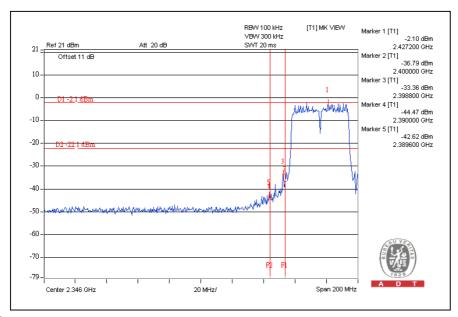


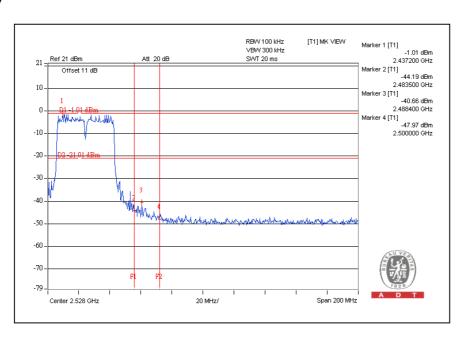




802.11n (40MHz) OFDM MODULATION:

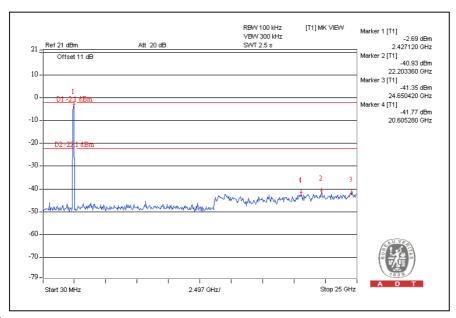
CH1



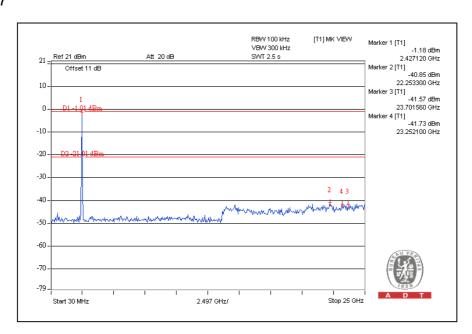




CH1



CH7



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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: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26052943 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3185050

Email: service@adt.com.tw
Web Site: www.adt.com.tw

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



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.
END