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RADIO TEST REPORT

(5150~5250MHz, 5250~5350 and 5470~5725MHz)

REPORT NO.: RF980615H07

MODEL NO.: AR5BHB92, AR5BHB92-H

RECEIVED: June 15, 2009

TESTED: June 25 to July 07, 2009

ISSUED: July 14, 2009

APPLICANT: Atheros Communications, Inc.

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

PRODUCT: 802.11n 2x2 PCIE MINICARD TRANSCEIVER
BRAND NAME: Atheros
MODEL NO.: AR5BHB92, AR5BHB92-H
TEST SAMPLE: R&D SAMPLE
TESTED: June 25 to July 07, 2009
APPLICANT: Atheros Communications, Inc.
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
ANSI C63.4-2003
Canada RSS-210 issue 7
Canada RSS-Gen issue 2

The above equipment 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.

PREPARED BY : Carol Liao , **DATE:** July 14, 2009
(Carol Liao, Specialist)

TECHNICAL ACCEPTANCE : Hank Chung , **DATE:** July 14, 2009
Responsible for RF (Hank Chung, Deputy Manager)

APPROVED BY : May Chen , **DATE:** July 14, 2009
(May Chen, Deputy Manager)



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2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

For [802.11a](#)

APPLIED STANDARD: 47 CFR Part 15, Subpart E, RSS-210, RSS-GEN					
Standard Section			Test Type	Result	REMARK
RSS-210	RSS-GEN	47 CFR Part 15			
A9.3	4.7	15.407(b/1/2/3) (b)(5)	Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz	PASS	Meet the requirement of limit. Minimum passing margin is -0.50dB at 15780.00MHz, 15900.00MHz and 15810.00MHz
	6	-	Receiver Radiated Emissions RSS-GEN Limit: Table 1	PASS	Meet the requirement of limit. Minimum passing margin is -3.08dBat 399.68MHz
A9.2	-	15.407(a/1/2/3)	Peak Transmit Power	PASS	Meet the requirement of limit

NOTE:

1. This report is prepared for FCC class II permissive change. Only radiated emission and maximum peak output power were presented in this test report.
2. The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47 ~ 5.60GHz, 5.65 ~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 5.15~5.35GHz and 5.47 ~ 5.60GHz and 5.65 ~5.725GHz. For the 2400 ~ 2483.5MHz and 5.725~5.850GHz RF parameters was recorded in another test report.

2.1 MEASUREMENT UNCERTAINTY

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

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

Measurement	Value
Radiated emissions (30MHz-1GHz)	3.94 dB
Radiated emissions (1GHz -18GHz)	2.49 dB
Radiated emissions (18GHz -40GHz)	2.70 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11n 2x2 PCIE MINICARD TRANSCEIVER
MODEL NO.	AR5BHB92, AR5BHB92-H
FCC ID	PPD-AR5BHB92-H
IC ID	4104A-ARBHB92H
POWER SUPPLY	DC 3.3V from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11 / 5.5 / 2 / 1Mbps 802.11g: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6Mbps 802.11a: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6Mbps Draft 802.11n (20MHz, 800ns GI): 65 / 58.5 / 52 / 39 / 26 / 19.5 / 13 / 6.5Mbps Draft 802.11n (40MHz, 800ns GI): 135 / 121.5 / 108 / 81 / 54 / 40.5 / 27 / 13.5Mbps
FREQUENCY RANGE	For 15.407 802.11a: 5.18 ~ 5.32GHz, 5.50 ~ 5.70GHz For 15.247 802.11b & 802.11g: 2412 ~ 2462MHz 802.11a: 5.745 ~ 5.825GHz
NUMBER OF CHANNEL	For 15.407 19 for 802.11a, draft 802.11n (20MHz) 9 for draft 802.11n (40MHz) For 15.247(2.4GHz) 11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz) For 15.247(5GHz) 5 for 802.11a, draft 802.11n (20MHz) 2 for draft 802.11n (40MHz)

MAXIMUM OUTPUT POWER	<p>For 15.407 802.11a: 127.797mW draft 802.11n (20MHz): 157.129mW draft 802.11n (40MHz): 143.843mW</p> <p>For 15.247(2.4GHz) 802.11b: 346.505mW 802.11g: 838.557mW draft 802.11n (20MHz): 765.895mW draft 802.11n (40MHz): 317.344mW</p> <p>For 15.247(5GHz) 802.11a: 683.818mW draft 802.11n (20MHz): 649.168mW draft 802.11n (40MHz): 771.010mW</p>
ANTENNA TYPE	Please see note 1
DATA CABLE	NA
I/O PORT	NA
ASSOCIATED DEVICES	NA

NOTE:

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

u add two antennas:

No.	Manufacture	Model No.	Antenna Type	Antenna Connector	Antenna Gain (dBi)	Frequency range (MHz)	Remark
1	Tyco	1513327-1	Dipole	RPSMA	3 (2.4GHz) 4 (5GHz)	2400~2483.5 5150~5850	without Diversity
2	Tyco	1513327-1	Dipole	RPSMA	3 (2.4GHz) 4 (5GHz)	2400~2483.5 5150~5850	without Diversity

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

Brand	Model Name	Description
Atheros	AR5BHB92 (For FCC use)	For marking requirement
	AR5BHB92-H (For Canada use)	

3. The EUT incorporates CDD function with 802.11a, 802.11b, 802.11g and MIMO function with draft 802.11n.

4. The EUT is 2 * 2 spatial MIMO (2Tx & 2Rx) without beam forming function. The antenna configurations are two transmitter antennas and two receiver antennas, as there are 2 Dipole antennas. Spatial multiplexing modes for simultaneous transmission using 2 antennas, and for simultaneous receiver using 2 antennas. The 11a and 11bg legacy mode is limited to single transmitter only.
5. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.
6. The EUT have MIMO power save mode, one transmitter may be active (chain 0) while other is inactive (chain 1). Output power is no different compared to operation when both transmitter chains are active. Transmitter power is not increased or decreased for chain 0 when in single chain mode, compared to dual chain active mode.
7. The EUT complies with draft 802.11n standards and backwards compatible with 802.11a, 802.11b, 802.11g products.
8. The reason of the output power measured in the mode is about 2dBm less than the original filing:

For 15.247 2.4GHz					
Channel	Total Power (dBm)		Power setting	Original and Class 2 change	Restrict by
	New Peak	Original Peak			
11n 20 : ch 6	28.84	29.54	21	0.69	bandedge
11n 40 : ch 3	18.98	20.79	10.5	1.81	bandedge
For 15.247 5GHz					
Channel	Total Power (dBm)		Power setting	Original and Class 2 change	Restrict by
	New Peak	Original Peak			
11a : ch157	26.58	28.88	18.5	2.30	2th harmonic
11n 20 : ch 157	26.67	29.02	18.5	2.35	2th harmonic
11n 40 : ch 159	27.89	29.48	20	1.59	2th harmonic
For 15.407 5GHz					
Channel	Total Power (dBm)		Power setting	Original and Class 2 change	Restrict by
	New Peak	Original Peak			
11a: ch140	19.84	21.47	17.5	1.63	5725MHz
11n 20 : ch 52	20.58	23.68	18.5	3.10	3th harmonic
11n 40 : ch 54	21.47	23.43	18.5	1.96	3th harmonic

9. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 5150MHz ~ 5350MHz bands:

Eight channels are provided for 802.11a and draft 802.11n (20MHz):

CHANNEL	FREQUENCY
36	5180 MHz
40	5200 MHz
44	5220 MHz
48	5240 MHz
52	5260 MHz
56	5280 MHz
60	5300 MHz
64	5320 MHz

Four channels are provided for draft 802.11n (40MHz):

CHANNEL	FREQUENCY
38	5190 MHz
46	5230 MHz
54	5270 MHz
62	5310 MHz



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Operated in 5470MHz ~ 5725MHz bands:

Eleven channels are provided for 802.11a and draft 802.11n (20MHz):

CHANNEL	FREQUENCY
100	5500 MHz
104	5520 MHz
108	5540 MHz
112	5560 MHz
116	5580 MHz
120	5600 MHz
124	5620 MHz
128	5640 MHz
132	5660 MHz
136	5680 MHz
140	5700 MHz

Five channels are provided for draft 802.11n (40MHz):

CHANNEL	FREQUENCY
102	5510 MHz
110	5550 MHz
118	5590 MHz
126	5630 MHz
134	5670 MHz



3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE < 1G	RE ≥ 1G	APCM	
-	√	√	√	√	-

Where **PLC**: Power Line Conducted Emission **RE < 1G**: Radiated Emission below 1GHz
RE ≥ 1G: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement

ANTENNA COMBINATION MODE:

COMBINATION MODE	OPERATION MODE	CHAIN(0) (TX/RX)	CHAIN(1) (TX/RX)
A	802.11a	√	√
B	DRAFT 802.11n(20MHz)	√	√
C	DRAFT 802.11n(40MHz)	√	√
COMBINATION MODE	OPERATION MODE	CHAIN(0) (RX)	CHAIN(1) (RX)
D	Receiver	√	√

Note:
1. The above information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.
2. Antenna 1 and Antenna 2 are Dipole antennas.

RADIATED EMISSION TEST (BELOW 1 GHz):

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 120, 140	OFDM	BPSK	6	A



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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)	TX COMBINATION
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 120, 140	OFDM	BPSK	6	A
For 5 GHz Draft 802.11n (20MHz)	36 to 140	36, 40, 48, 52, 60, 64, 100, 120, 140	OFDM	BPSK	6.5	B
For 5 GHz Draft 802.11n (40MHz)	38 to 134	38, 46, 54, 62, 102, 116, 134	OFDM	BPSK	13.5	C
For 5 GHz Receiver	36 to 140	36, 40, 48, 52, 60, 64, 100, 120, 140	-	-	-	D

ANTENNA PORT CONDUCTED 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)	TX COMBINATION
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 120, 140	OFDM	BPSK	6	A
For 5 GHz Draft 802.11n (20MHz)	36 to 140	36, 40, 48, 52, 60, 64, 100, 120, 140	OFDM	BPSK	6.5	B
For 5 GHz Draft 802.11n (40MHz)	38 to 134	38, 46, 54, 62, 102, 116, 134	OFDM	BPSK	13.5	C



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3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 802.11n 2x2 PCIE MINICARD TRANSCEIVER. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart E. (15.407)

ANSI C63.4 : 2003

Canada RSS-210 issue 7

Canada RSS-Gen issue 2

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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3.4 DESCRIPTION OF SUPPORT UNITS

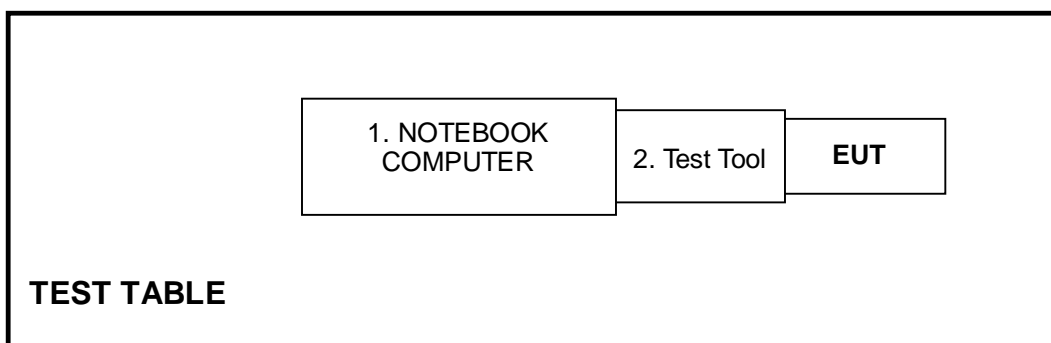
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	lenovo	0769	NA	FCC DoC
2	TEST TOOL	Atheros	NA	NA	NA

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

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

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



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4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dB μ V/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

NOTE:

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$



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4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 9, 2008	Dec. 8, 2009
Agilent PSA Spectrum Analyzer	E4446A	MY46180622	Apr. 24 , 2009	Apr. 23 , 2010
HP Pre_Amplifier	8449B	3008A01923	Nov. 10, 2008	Nov. 9, 2009
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Sep. 9, 2008	Sep. 8, 2009
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	April 29, 2009	April 28, 2010
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 09, 2008	Dec. 08, 2009
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 22, 2009	Jan. 21, 2010
R&S Loop Antenna	HFH2-Z2	100070	Jan. 14, 2008	Jan. 13, 2010
RF Switches	EMH-011	08009	Oct. 07, 2008	Oct. 06, 2009
RF CABLE (Chaintek)	Sucoflex 106	28077	Aug. 15, 2008	Aug. 14, 2009
RF Cable	8DFB	STCCAB-30M-1GHz	Oct. 07, 2008	Oct. 06, 2009
Software	ADT_Radiated_V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA

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

4.1.4 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 area test 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

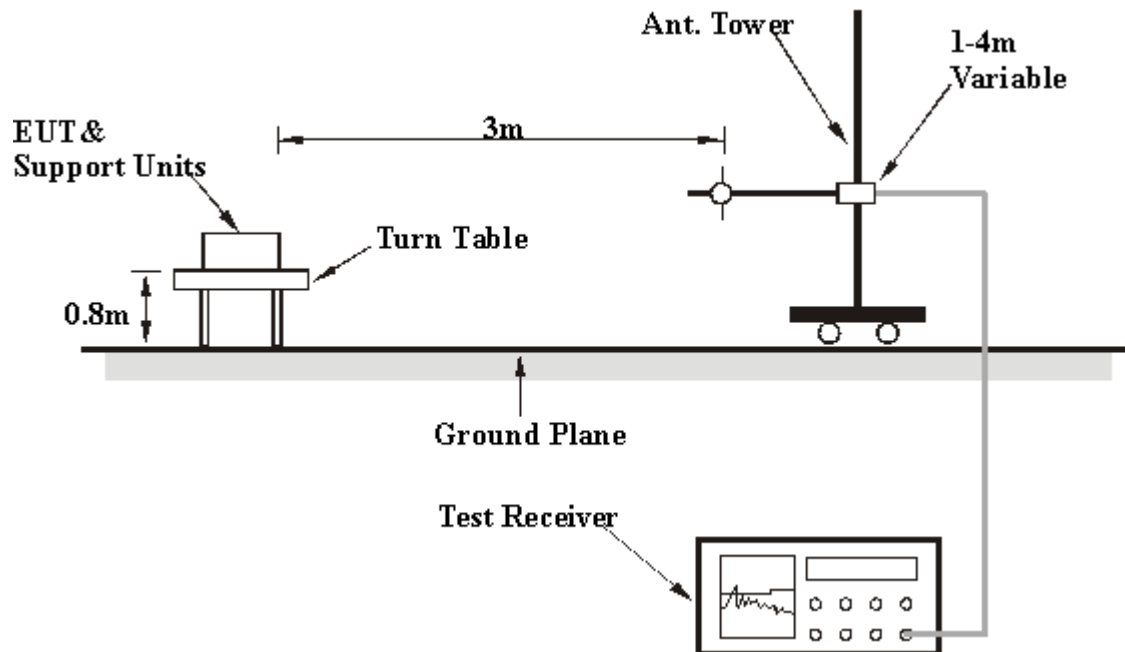
NOTE:

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

4.1.5 DEVIATION FROM TEST STANDARD

No deviation

4.1.6 TEST SETUP



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

4.1.7 EUT OPERATING CONDITION

1. Connect the EUT with the support unit 1 (Notebook computer) which placed on a testing table via test tool.
2. The support unit 1 (Notebook computer) ran a test program “ART_V0_9_b4” to enable EUT under transmission condition continuously.



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Below 1GHz Test Data

4.1.8 TEST RESULTS (FOR TRANSMITTER PART)

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25.0deg. C, 55.0%RH 965hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	120.01	24.69 QP	43.50	-18.81	1.32 H	69	12.14	12.55
2	199.83	40.23 QP	43.50	-3.27	1.11 H	65	27.83	12.40
3	240.03	32.15 QP	46.00	-13.85	1.11 H	246	18.27	13.88
4	360.01	28.24 QP	46.00	-17.76	1.06 H	234	9.84	18.40
5	399.66	42.90 QP	46.00	-3.10	2.00 H	149	23.41	19.49
6	480.00	28.24 QP	46.00	-17.76	1.16 H	95	6.35	21.89
7	600.03	34.65 QP	46.00	-11.35	1.68 H	45	9.61	25.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	119.99	27.95 QP	43.50	-15.55	1.34 V	352	15.40	12.55
2	200.00	30.00 QP	43.50	-13.50	1.42 V	3	17.61	12.39
3	240.00	28.97 QP	46.00	-17.03	1.03 V	56	15.09	13.88
4	250.00	25.45 QP	46.00	-20.55	2.00 V	295	11.20	14.25
5	399.68	42.92 QP	46.00	-3.08	1.65 V	223	23.43	19.49
6	535.12	34.14 QP	46.00	-11.86	1.73 V	99	10.66	23.48

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

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

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.



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Above 1GHz Test Data

4.1.9 TEST RESULTS (FOR TRANSMITTER PART)

802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4767.60	55.24 PK	74.00	-18.76	1.21 H	20	18.60	36.64
2	4767.60	41.66 AV	54.00	-12.34	1.21 H	20	5.02	36.64
3	*5180.00	97.64 PK			1.21 H	189	60.38	37.26
4	*5180.00	86.32 AV			1.21 H	189	49.06	37.26
5	#10360.00	52.90 PK	88.30	-35.40	1.44 H	63	6.26	46.64
6	#10360.00	44.10 AV	68.30	-24.20	1.44 H	63	-2.54	46.64
7	15540.00	56.89 PK	74.00	-17.11	1.46 H	315	9.34	47.55
8	15540.00	45.67 AV	54.00	-8.33	1.46 H	315	-1.88	47.55

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4144.00	52.60 PK	74.00	-21.40	1.00 V	27	17.75	34.85
2	4144.00	40.20 AV	54.00	-13.80	1.00 V	27	5.35	34.85
3	5150.00	57.16 PK	74.00	-16.84	1.18 V	70	19.90	37.26
4	5150.00	44.75 AV	54.00	-9.25	1.18 V	70	7.49	37.26
5	*5180.00	109.80 PK			1.17 V	76	72.54	37.26
6	*5180.00	99.40 AV			1.17 V	76	62.14	37.26
7	#10360.00	53.80 PK	88.30	-34.50	1.27 V	26	7.16	46.64
8	#10360.00	44.26 AV	68.30	-24.04	1.27 V	26	-2.38	46.64
9	15540.00	57.10 PK	74.00	-16.90	1.21 V	214	9.55	47.55
10	15540.00	44.57 AV	54.00	-9.43	1.21 V	214	-2.98	47.55

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4160.00	52.91 PK	74.00	-21.09	1.39 H	68	18.01	34.90
2	4160.00	42.84 AV	54.00	-11.16	1.39 H	68	7.94	34.90
3	*5200.00	96.72 PK			1.22 H	190	59.46	37.26
4	*5200.00	86.24 AV			1.22 H	190	48.98	37.26
5	#10400.00	55.62 PK	88.30	-32.68	1.44 H	184	8.95	46.67
6	#10400.00	44.20 AV	68.30	-24.10	1.44 H	184	-2.47	46.67
7	15600.00	54.98 PK	74.00	-19.02	1.56 H	108	7.54	47.44
8	15600.00	43.22 AV	54.00	-10.78	1.56 H	108	-4.22	47.44
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4160.00	52.80 PK	74.00	-21.20	1.00 V	37	17.90	34.90
2	4160.00	40.30 AV	54.00	-13.70	1.00 V	37	5.40	34.90
3	*5200.00	109.90 PK			1.21 V	89	72.64	37.26
4	*5200.00	99.60 AV			1.21 V	89	62.34	37.26
5	#10400.00	54.10 PK	88.30	-34.20	1.21 V	32	7.43	46.67
6	#10400.00	44.20 AV	68.30	-24.10	1.21 V	32	-2.47	46.67
7	15600.00	57.40 PK	74.00	-16.60	1.04 V	217	9.96	47.44
8	15600.00	45.10 AV	54.00	-8.90	1.04 V	217	-2.34	47.44

- 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.
 6. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4192.00	54.66 PK	74.00	-19.34	1.63 H	97	19.66	35.00
2	4192.00	42.71 AV	54.00	-11.29	1.63 H	97	7.71	35.00
3	*5240.00	97.57 PK			1.34 H	191	60.31	37.26
4	*5240.00	87.28 AV			1.34 H	191	50.02	37.26
5	#10480.00	53.90 PK	88.30	-34.40	1.40 H	348	7.17	46.73
6	#10480.00	44.60 AV	68.30	-23.70	1.40 H	348	-2.13	46.73
7	15720.00	53.48 PK	74.00	-20.52	1.09 H	34	6.27	47.21
8	15720.00	42.84 AV	54.00	-11.16	1.09 H	34	-4.37	47.21
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4192.00	53.10 PK	74.00	-20.90	1.00 V	44	18.10	35.00
2	4192.00	40.20 AV	54.00	-13.80	1.00 V	44	5.20	35.00
3	*5240.00	110.10 PK			1.14 V	83	72.84	37.26
4	*5240.00	99.80 AV			1.14 V	83	62.54	37.26
5	#10480.00	54.30 PK	88.30	-34.00	1.26 V	37	7.57	46.73
6	#10480.00	44.77 AV	68.30	-23.53	1.26 V	37	-1.96	46.73
7	15720.00	57.60 PK	74.00	-16.40	1.26 V	209	10.39	47.21
8	15720.00	45.30 AV	54.00	-8.70	1.26 V	209	-1.91	47.21

- 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.
 6. “#”:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4208.00	53.78 PK	74.00	-20.22	1.72 H	104	18.74	35.04
2	4208.00	42.34 AV	54.00	-11.66	1.72 H	104	7.30	35.04
3	*5260.00	102.38 PK			1.31 H	194	65.12	37.26
4	*5260.00	92.14 AV			1.31 H	194	54.88	37.26
6	#10520.00	55.01 PK	88.30	-33.29	1.48 H	2	8.24	46.77
7	#10520.00	54.63 AV	68.30	-13.67	1.48 H	2	7.86	46.77
8	15780.00	65.60 PK	74.00	-8.40	1.26 H	217	18.50	47.10
9	15780.00	52.10 AV	54.00	-1.90	1.26 H	217	5.00	47.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4208.00	53.40 PK	74.00	-20.60	1.00 V	74	18.36	35.04
2	4208.00	40.60 AV	54.00	-13.40	1.00 V	74	5.56	35.04
3	*5260.00	116.40 PK			1.17 V	69	79.14	37.26
4	*5260.00	105.60 AV			1.17 V	69	68.34	37.26
5	#10520.00	55.60 PK	88.30	-32.70	1.33 V	48	8.83	46.77
6	#10520.00	43.20 AV	68.30	-25.10	1.33 V	48	-3.57	46.77
7	15780.00	68.20 PK	74.00	-5.80	1.24 V	210	21.10	47.10
8	15780.00	53.10 AV	54.00	-0.90	1.24 V	210	6.00	47.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4240.00	52.40 PK	74.00	-21.60	1.43 H	78	17.26	35.14
2	4240.00	41.83 AV	54.00	-12.17	1.43 H	78	6.69	35.14
3	*5300.00	102.11 PK			1.14 H	193	64.85	37.26
4	*5300.00	92.04 AV			1.14 H	193	54.78	37.26
5	10600.00	52.65 PK	74.00	-21.35	1.30 H	265	5.82	46.83
6	10600.00	42.11 AV	54.00	-11.89	1.30 H	265	-4.72	46.83
7	15900.00	65.90 PK	74.00	-8.10	1.24 H	220	19.03	46.87
8	15900.00	52.70 AV	54.00	-1.30	1.24 H	220	5.83	46.87
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4240.00	53.10 PK	74.00	-20.90	1.00 V	37	17.96	35.14
2	4240.00	40.20 AV	54.00	-13.80	1.00 V	37	5.06	35.14
3	*5300.00	115.30 PK			1.13 V	64	78.04	37.26
4	*5300.00	104.90 AV			1.13 V	64	67.64	37.26
5	10600.00	55.80 PK	74.00	-18.20	1.12 V	67	8.97	46.83
6	10600.00	44.20 AV	54.00	-9.80	1.12 V	67	-2.63	46.83
7	15900.00	66.00 PK	74.00	-8.00	1.12 V	208	19.13	46.87
8	15900.00	52.60 AV	54.00	-1.40	1.12 V	208	5.73	46.87

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4256.00	53.46 PK	74.00	-20.54	1.50 H	5	18.27	35.19
2	4256.00	42.84 AV	54.00	-11.16	1.50 H	5	7.65	35.19
3	*5320.00	102.59 PK			1.20 H	191	65.33	37.26
4	*5320.00	91.66 AV			1.20 H	191	54.40	37.26
5	5350.00	58.44 PK	74.00	-15.56	1.20 H	190	21.18	37.26
6	5350.00	44.51 AV	54.00	-9.49	1.20 H	190	7.25	37.26
7	10640.00	53.69 PK	74.00	-20.31	1.80 H	67	6.83	46.86
8	10640.00	42.15 AV	54.00	-11.85	1.80 H	67	-4.71	46.86
9	15960.00	56.71 PK	74.00	-17.29	1.42 H	271	9.95	46.76
10	15960.00	45.89 AV	54.00	-8.11	1.42 H	271	-0.87	46.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4256.00	53.40 PK	74.00	-20.60	1.01 V	36	18.21	35.19
2	4256.00	41.30 AV	54.00	-12.70	1.01 V	36	6.11	35.19
3	*5320.00	115.10 PK			1.14 V	70	77.84	37.26
4	*5320.00	104.89 AV			1.14 V	70	67.63	37.26
5	5350.00	70.60 PK	74.00	-3.40	1.13 V	70	33.34	37.26
6	5350.00	53.12 AV	54.00	-0.88	1.13 V	70	15.86	37.26
7	10640.00	55.00 PK	74.00	-19.00	1.13 V	65	8.14	46.86
8	10640.00	44.00 AV	54.00	-10.00	1.13 V	65	-2.86	46.86
9	15960.00	66.20 PK	74.00	-7.80	1.14 V	208	19.44	46.76
10	15960.00	51.30 AV	54.00	-2.70	1.14 V	208	4.54	46.76

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4400.00	52.50 PK	74.00	-21.50	1.09 H	88	16.88	35.62
2	4400.00	43.84 AV	54.00	-10.16	1.09 H	88	8.22	35.62
3	5460.00	58.66 PK	74.00	-15.34	1.22 H	262	21.40	37.26
4	5460.00	42.75 AV	54.00	-11.25	1.22 H	262	5.49	37.26
5	#5470.00	61.36 PK	88.30	-26.94	1.46 H	107	24.10	37.26
6	#5470.00	45.86 AV	68.30	-22.44	1.46 H	107	8.60	37.26
7	*5500.00	101.35 PK			1.46 H	192	64.09	37.26
8	*5500.00	91.18 AV			1.46 H	192	53.92	37.26
9	11000.00	55.08 PK	74.00	-18.92	1.33 H	264	7.93	47.15
10	11000.00	43.57 AV	54.00	-10.43	1.33 H	264	-3.58	47.15
11	#16500.00	68.30 PK	88.30	-20.00	1.72 H	64	19.23	49.07
12	#16500.00	52.60 AV	68.30	-15.70	1.72 H	64	3.53	49.07

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4400.00	53.50 PK	74.00	-20.50	1.01 V	72	17.88	35.62
2	4400.00	44.30 AV	54.00	-9.70	1.01 V	72	8.68	35.62
3	5460.00	73.39 PK	74.00	-0.61	1.11 V	103	36.13	37.26
4	5460.00	51.83 AV	54.00	-2.17	1.11 V	103	14.57	37.26
5	#5469.86	77.10 PK	88.30	-11.20	1.11 V	103	39.84	37.26
6	#5469.86	55.78 AV	68.30	-12.52	1.11 V	103	18.52	37.26
7	*5500.00	115.90 PK			1.22 V	72	78.64	37.26
8	*5500.00	105.30 AV			1.22 V	72	68.04	37.26
9	11000.00	61.10 PK	74.00	-12.90	1.49 V	53	13.95	47.15
10	11000.00	48.60 AV	54.00	-5.40	1.49 V	53	1.45	47.15
11	#16500.00	69.00 PK	88.30	-19.30	1.41 V	289	19.93	49.07
12	#16500.00	53.40 AV	68.30	-14.90	1.41 V	289	4.33	49.07

- 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.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	#4480.00	53.68 PK	88.30	-34.62	1.21 H	136	17.82	35.86
2	#4480.00	42.77 AV	68.30	-25.53	1.21 H	136	6.91	35.86
3	*5600.00	101.26 PK			1.26 H	191	63.72	37.54
4	*5600.00	91.09 AV			1.26 H	191	53.55	37.54
5	11200.00	54.74 PK	74.00	-19.26	1.50 H	68	7.56	47.18
6	11200.00	44.73 AV	54.00	-9.27	1.50 H	68	-2.45	47.18
7	#16800.00	55.74 PK	88.30	-32.56	1.76 H	65	5.69	50.05
8	#16800.00	44.84 AV	68.30	-23.46	1.76 H	65	-5.21	50.05

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#4480.00	53.70 PK	88.30	-34.60	1.01 V	83	17.84	35.86
2	#4480.00	44.60 AV	68.30	-23.70	1.01 V	83	8.74	35.86
3	*5600.00	111.40 PK			1.22 V	76	73.86	37.54
4	*5600.00	105.40 AV			1.22 V	76	67.86	37.54
5	11200.00	61.70 PK	74.00	-12.30	1.46 V	59	14.52	47.18
6	11200.00	49.90 AV	54.00	-4.10	1.46 V	59	2.72	47.18
7	#16800.00	66.70 PK	88.30	-21.60	1.12 V	207	16.65	50.05
8	#16800.00	53.50 AV	68.30	-14.80	1.12 V	207	3.45	50.05

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Frank Liu

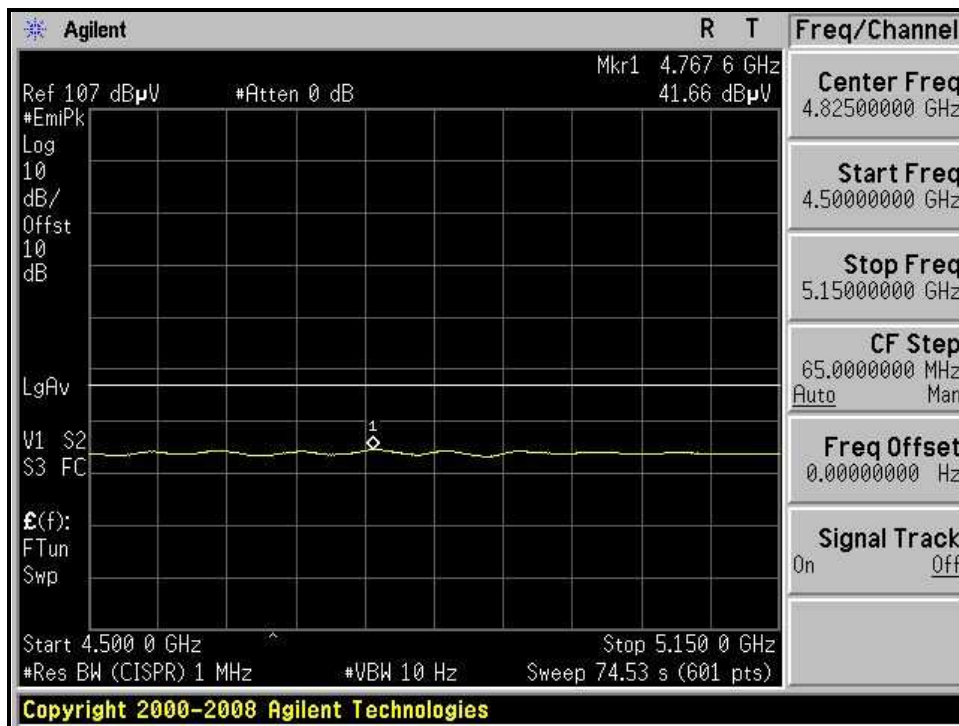
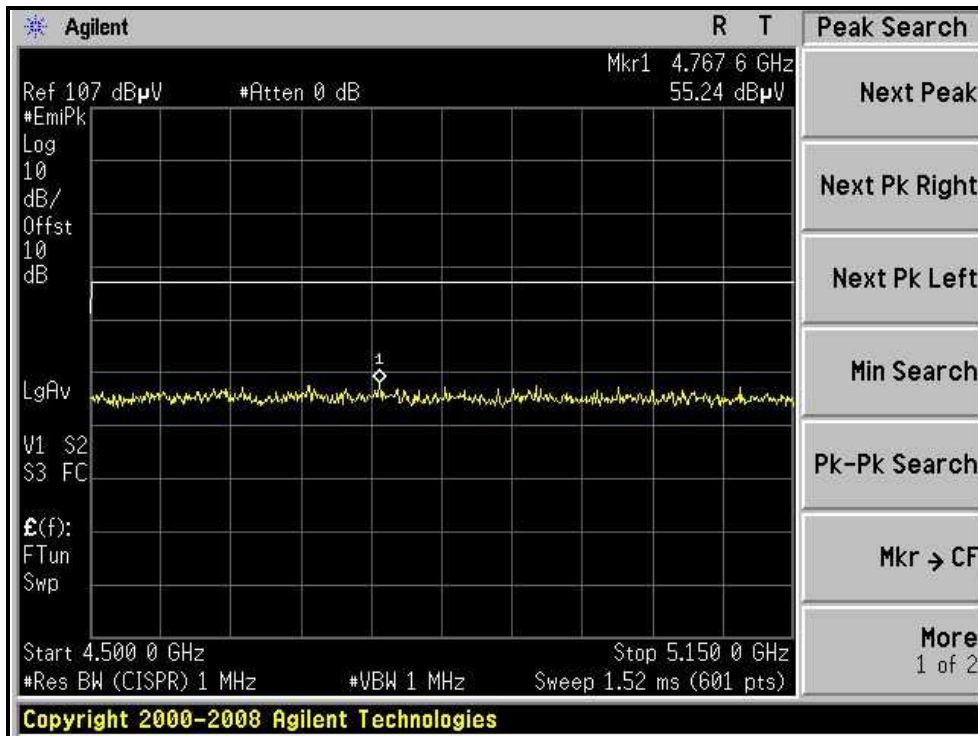
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4560.00	54.55 PK	74.00	-19.45	1.38 H	146	18.47	36.08
2	4560.00	43.87 AV	54.00	-10.13	1.38 H	146	7.79	36.08
3	*5700.00	100.36 PK			1.51 H	194	62.53	37.83
4	*5700.00	90.48 AV			1.51 H	194	52.65	37.83
5	#5725.00	69.78 PK	88.30	-18.52	1.68 H	212	31.88	37.90
6	#5725.00	53.50 AV	68.30	-14.80	1.68 H	212	15.60	37.90
7	11400.00	53.11 PK	74.00	-20.89	1.09 H	88	5.90	47.21
8	11400.00	42.69 AV	54.00	-11.31	1.09 H	88	-4.52	47.21
9	#17100.00	58.57 PK	88.30	-29.73	1.46 H	22	7.17	51.40
10	#17100.00	46.94 AV	68.30	-21.36	1.46 H	22	-4.46	51.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4560.00	53.90 PK	74.00	-20.10	1.01 V	74	17.82	36.08
2	4560.00	44.70 AV	54.00	-9.30	1.01 V	74	8.62	36.08
3	*5700.00	111.10 PK			1.22 V	83	73.27	37.83
4	*5700.00	105.10 AV			1.22 V	83	67.27	37.83
5	#5725.00	81.93 PK	88.30	-6.37	1.14 V	72	44.03	37.90
6	#5725.00	67.36 AV	68.30	-0.94	1.14 V	72	29.46	37.90
7	11400.00	62.30 PK	74.00	-11.70	1.44 V	83	15.09	47.21
8	11400.00	50.40 AV	54.00	-3.60	1.44 V	83	3.19	47.21
9	#17100.00	63.40 PK	88.30	-24.90	1.17 V	204	12.00	51.40
10	#17100.00	52.00 AV	68.30	-16.30	1.17 V	204	0.60	51.40

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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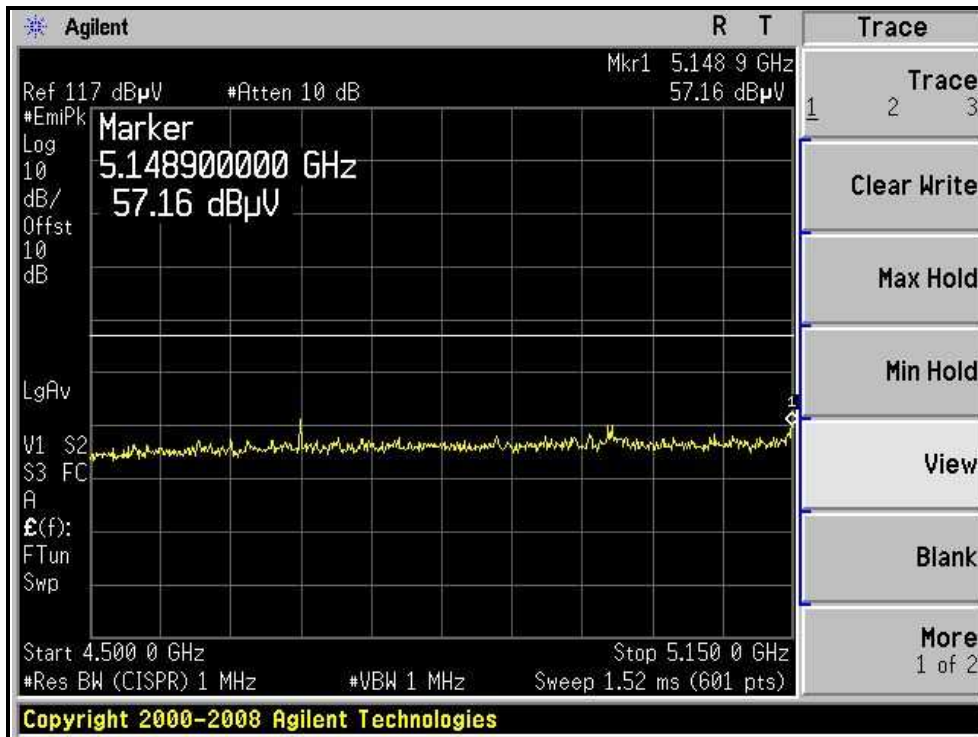
RESTRICTED BANDEDGE (802.11a MODE, CH36, HORIZONTAL)





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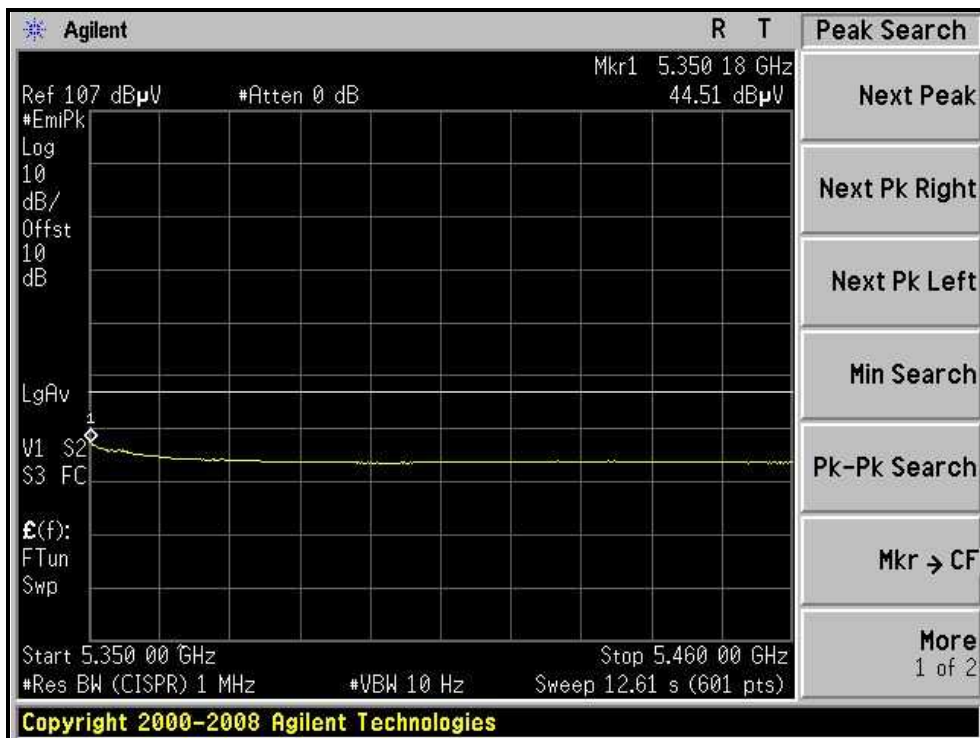
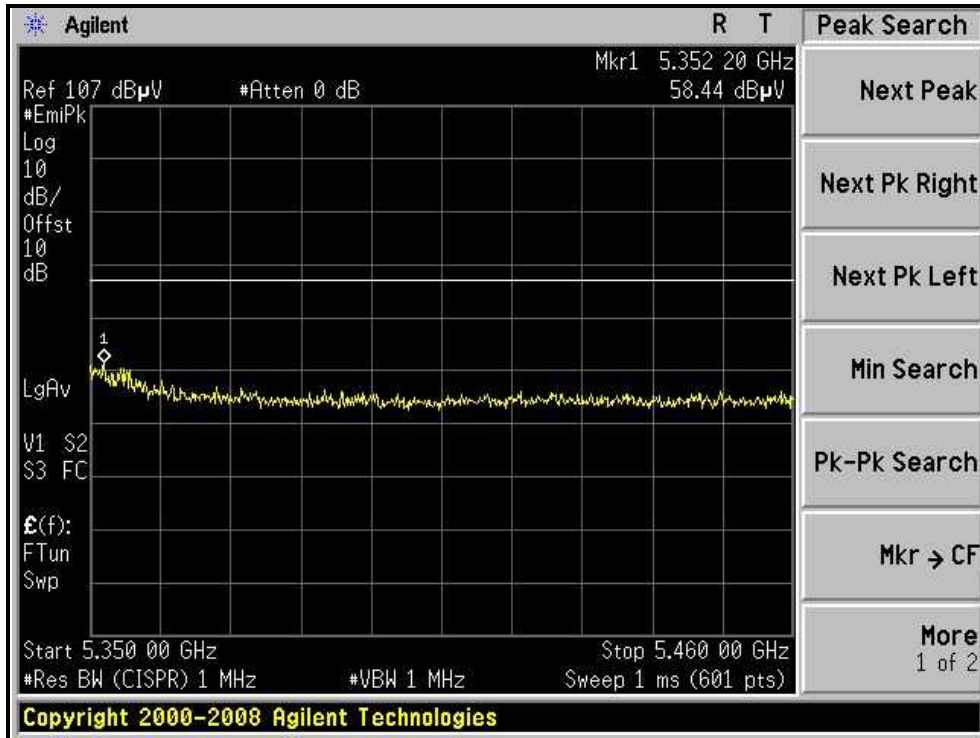
RESTRICTED BANDEDGE (802.11a MODE, CH36, VERTICAL)





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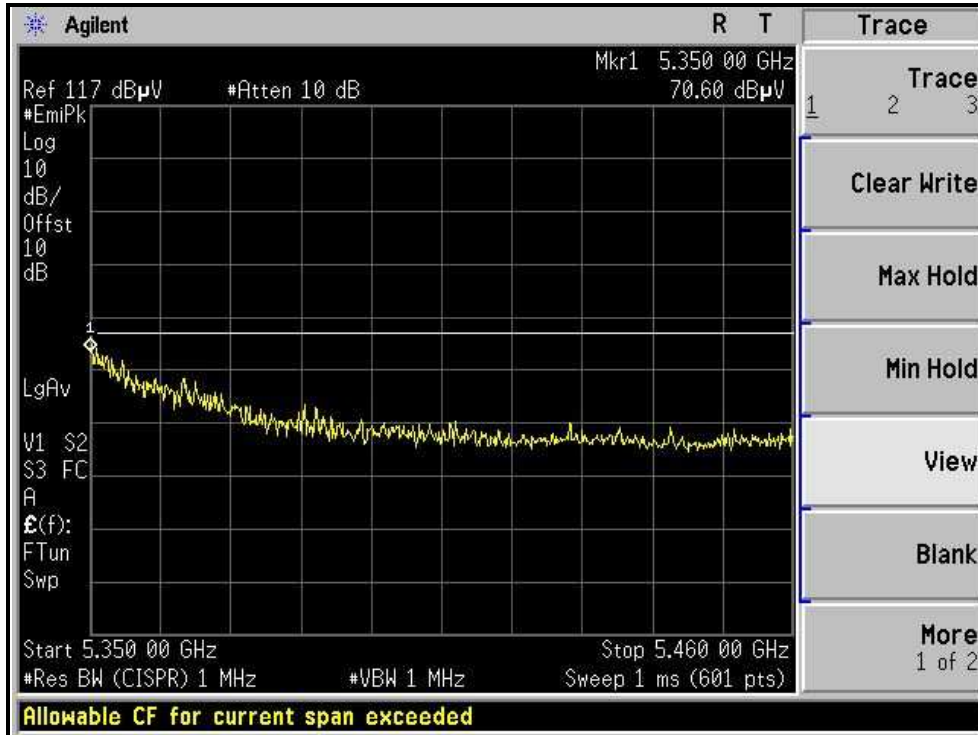
RESTRICTED BANDEDGE (802.11a MODE, CH64, HORIZONTAL)





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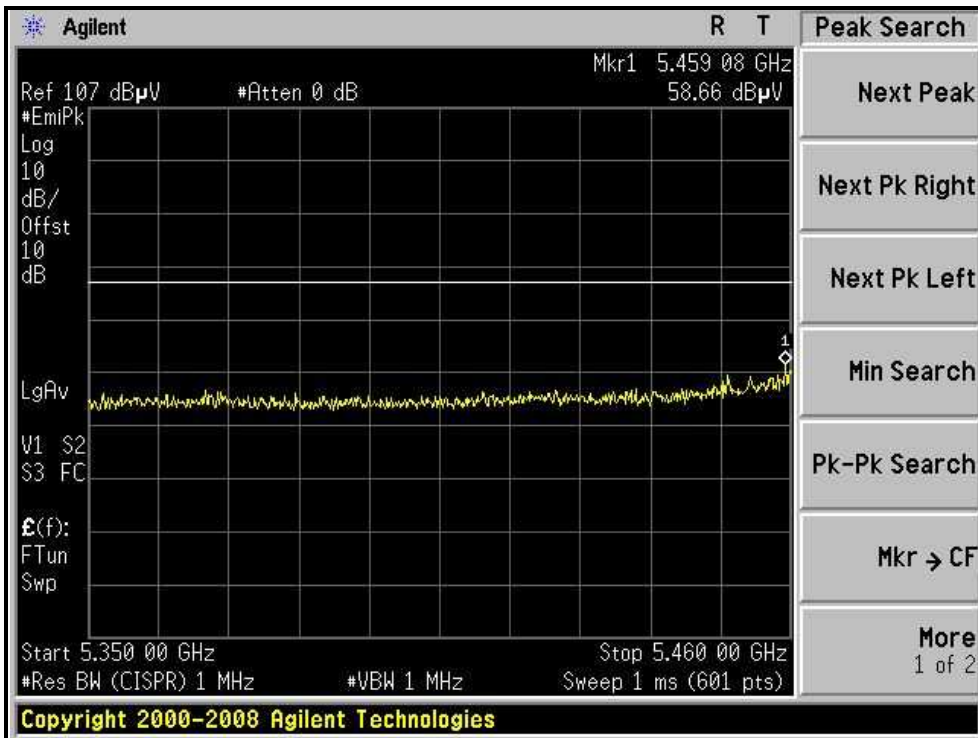
RESTRICTED BANDEDGE (802.11a MODE, CH64, VERTICAL)





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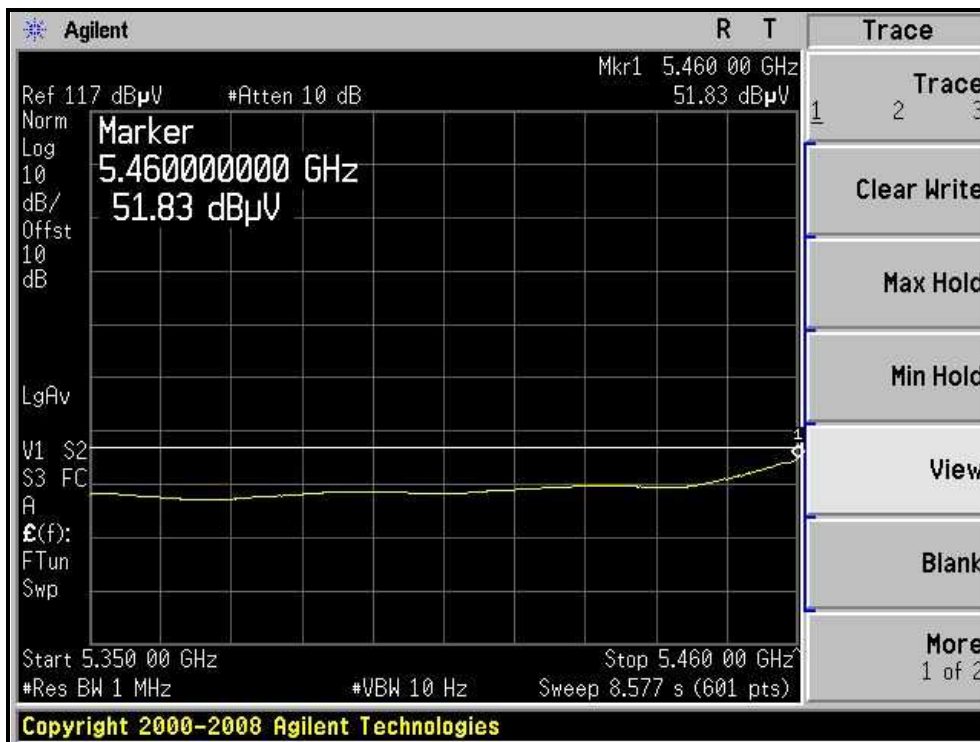
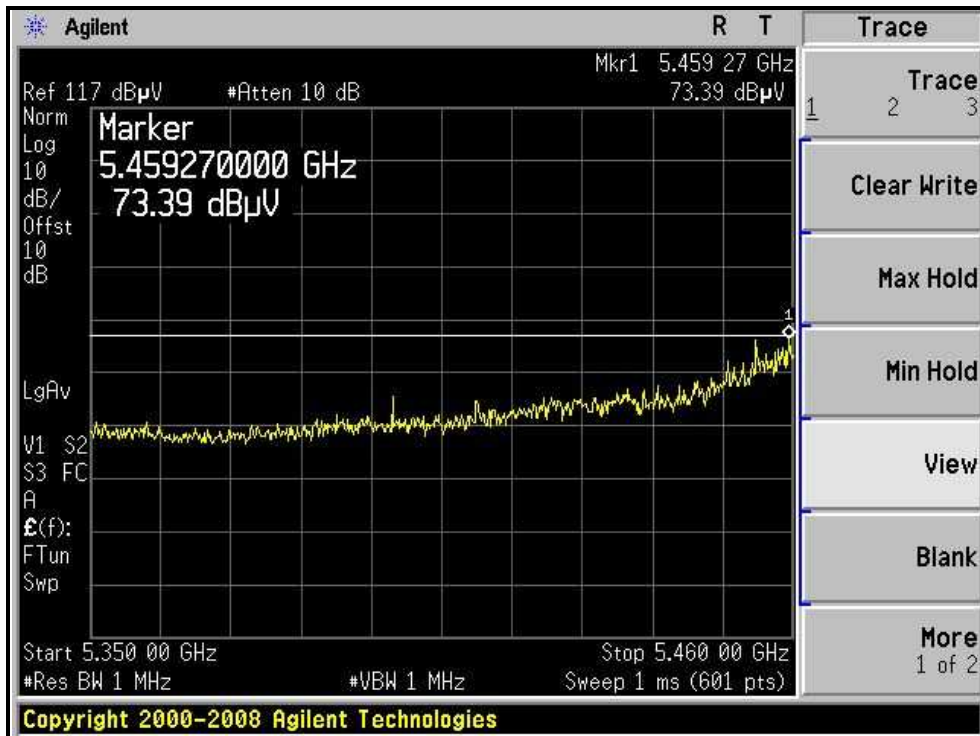
RESTRICTED BANDEDGE (802.11a MODE, CH100, HORIZONTAL)





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RESTRICTED BANDEDGE (802.11a MODE, CH100, VERTICAL)





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DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4144.00	54.29 PK	74.00	-19.71	1.00 H	169	19.44	34.85
2	4144.00	42.41 AV	54.00	-11.59	1.00 H	169	7.56	34.85
3	4766.50	54.69 PK	74.00	-19.31	1.20 H	200	18.06	36.63
4	4766.50	41.48 AV	54.00	-12.52	1.20 H	200	4.85	36.63
5	*5180.00	99.33 PK			1.21 H	188	62.07	37.26
6	*5180.00	87.55 AV			1.21 H	188	50.29	37.26
7	#10360.00	53.11 PK	88.30	-35.19	1.09 H	68	6.47	46.64
8	#10360.00	40.10 AV	68.30	-28.20	1.09 H	68	-6.54	46.64
9	15540.00	56.84 PK	74.00	-17.16	1.08 H	207	9.29	47.55
10	15540.00	44.55 AV	54.00	-9.45	1.08 H	207	-3.00	47.55

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4144.00	53.20 PK	74.00	-20.80	1.49 V	172	18.35	34.85
2	4144.00	44.10 AV	54.00	-9.90	1.49 V	172	9.25	34.85
3	5150.00	64.25 PK	74.00	-9.75	1.14 V	80	26.99	37.26
4	5150.00	50.05 AV	54.00	-3.95	1.14 V	80	12.79	37.26
5	*5180.00	113.75 PK			1.14 V	80	76.49	37.26
6	*5180.00	102.13 AV			1.14 V	80	64.87	37.26
7	#10360.00	53.20 PK	88.30	-35.10	1.03 V	274	6.56	46.64
8	#10360.00	44.58 AV	68.30	-23.72	1.03 V	274	-2.06	46.64
9	15540.00	61.60 PK	74.00	-12.40	1.00 V	266	14.05	47.55
10	15540.00	47.60 AV	54.00	-6.40	1.00 V	266	0.05	47.55

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4160.00	53.87 PK	74.00	-20.13	1.01 H	177	18.97	34.90
2	4160.00	43.22 AV	54.00	-10.78	1.01 H	177	8.32	34.90
3	*5200.00	99.39 PK			1.21 H	193	62.13	37.26
4	*5200.00	88.88 AV			1.21 H	193	51.62	37.26
5	#10400.00	54.29 PK	88.30	-34.01	1.43 H	86	7.62	46.67
6	#10400.00	44.70 AV	68.30	-23.60	1.43 H	86	-1.97	46.67
7	15600.00	56.43 PK	74.00	-17.57	1.11 H	343	8.99	47.44
8	15600.00	43.89 AV	54.00	-10.11	1.11 H	343	-3.55	47.44
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4160.00	53.40 PK	74.00	-20.60	1.44 V	70	18.50	34.90
2	4160.00	44.20 AV	54.00	-9.80	1.44 V	70	9.30	34.90
3	*5200.00	113.90 PK			1.10 V	71	76.64	37.26
4	*5200.00	102.30 AV			1.10 V	71	65.04	37.26
5	#10400.00	53.10 PK	88.30	-35.20	1.04 V	278	6.43	46.67
6	#10400.00	44.20 AV	68.30	-24.10	1.04 V	278	-2.47	46.67
7	15600.00	61.80 PK	74.00	-12.20	1.00 V	268	14.36	47.44
8	15600.00	47.90 AV	54.00	-6.10	1.00 V	268	0.46	47.44

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4192.00	54.28 PK	74.00	-19.72	1.11 H	343	19.28	35.00
2	4192.00	42.88 AV	54.00	-11.12	1.11 H	343	7.88	35.00
3	*5240.00	98.69 PK			1.35 H	190	61.43	37.26
4	*5240.00	87.70 AV			1.35 H	190	50.44	37.26
5	#10480.00	53.84 PK	88.30	-34.46	1.56 H	74	7.11	46.73
6	#10480.00	44.10 AV	68.30	-24.20	1.56 H	74	-2.63	46.73
7	15720.00	58.43 PK	74.00	-15.57	1.20 H	85	11.22	47.21
8	15720.00	44.50 AV	54.00	-9.50	1.20 H	85	-2.71	47.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4192.00	53.60 PK	74.00	-20.40	1.40 V	73	18.60	35.00
2	4192.00	44.40 AV	54.00	-9.60	1.40 V	73	9.40	35.00
3	*5240.00	114.10 PK			1.12 V	79	76.84	37.26
4	*5240.00	102.60 AV			1.12 V	79	65.34	37.26
5	#10480.00	53.40 PK	88.30	-34.90	1.01 V	293	6.67	46.73
6	#10480.00	44.30 AV	68.30	-24.00	1.01 V	293	-2.43	46.73
7	15720.00	62.30 PK	74.00	-11.70	1.00 V	270	15.09	47.21
8	15720.00	48.30 AV	54.00	-5.70	1.00 V	270	1.09	47.21

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4208.00	57.45 PK	74.00	-16.55	1.50 H	165	22.41	35.04
2	4208.00	43.58 AV	54.00	-10.42	1.50 H	165	8.54	35.04
3	*5260.00	102.60 PK			1.31 H	195	65.34	37.26
4	*5260.00	91.99 AV			1.31 H	195	54.73	37.26
5	#10520.00	53.78 PK	88.30	-34.52	1.11 H	53	7.01	46.77
6	#10520.00	42.31 AV	68.30	-25.99	1.11 H	53	-4.46	46.77
7	15780.00	58.62 PK	74.00	-15.38	1.43 H	267	11.52	47.10
8	15780.00	44.99 AV	54.00	-9.01	1.43 H	267	-2.11	47.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4208.00	53.10 PK	74.00	-20.90	1.40 V	69	18.06	35.04
2	4208.00	44.10 AV	54.00	-9.90	1.40 V	69	9.06	35.04
3	*5260.00	113.50 PK			1.04 V	79	76.24	37.26
4	*5260.00	108.60 AV			1.04 V	79	71.34	37.26
5	#10520.00	53.50 PK	88.30	-34.80	1.24 V	331	6.73	46.77
6	#10520.00	43.40 AV	68.30	-24.90	1.24 V	331	-3.37	46.77
7	15780.00	68.70 PK	74.00	-5.30	1.01 V	266	21.60	47.10
8	15780.00	53.50 AV	54.00	-0.50	1.01 V	266	6.40	47.10

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4240.00	53.49 PK	74.00	-20.51	1.70 H	74	18.35	35.14
2	4240.00	43.22 AV	54.00	-10.78	1.70 H	74	8.08	35.14
3	*5300.00	103.46 PK			1.15 H	194	66.20	37.26
4	*5300.00	92.66 AV			1.15 H	194	55.40	37.26
5	10600.00	54.84 PK	74.00	-19.16	1.28 H	65	8.01	46.83
6	10600.00	44.69 AV	54.00	-9.31	1.28 H	65	-2.14	46.83
7	15900.00	59.40 PK	74.00	-14.60	1.48 H	98	12.53	46.87
8	15900.00	45.78 AV	54.00	-8.22	1.48 H	98	-1.09	46.87
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4240.00	53.40 PK	74.00	-20.60	1.02 V	64	18.26	35.14
2	4240.00	44.20 AV	54.00	-9.80	1.02 V	64	9.06	35.14
3	*5300.00	113.20 PK			1.02 V	76	75.94	37.26
4	*5300.00	108.10 AV			1.02 V	76	70.84	37.26
5	10600.00	59.10 PK	74.00	-14.90	1.27 V	329	12.27	46.83
6	10600.00	52.40 AV	54.00	-1.60	1.27 V	329	5.57	46.83
7	15900.00	69.30 PK	74.00	-4.70	1.14 V	289	22.43	46.87
8	15900.00	53.50 AV	54.00	-0.50	1.14 V	289	6.63	46.87

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4256.00	60.80 PK	74.00	-13.20	1.20 H	9	25.61	35.19
2	4256.00	43.65 AV	54.00	-10.35	1.20 H	9	8.46	35.19
3	*5320.00	101.16 PK			1.21 H	191	63.90	37.26
4	*5320.00	90.67 AV			1.21 H	191	53.41	37.26
5	5350.00	58.83 PK	74.00	-15.17	1.17 H	189	21.57	37.26
6	5350.00	43.17 AV	54.00	-10.83	1.17 H	189	5.91	37.26
7	10640.00	55.91 PK	74.00	-18.09	1.39 H	100	9.05	46.86
8	10640.00	45.94 AV	54.00	-8.06	1.39 H	100	-0.92	46.86
9	15960.00	58.71 PK	74.00	-15.29	1.33 H	100	11.95	46.76
10	15960.00	44.80 AV	54.00	-9.20	1.33 H	100	-1.96	46.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4256.00	53.70 PK	74.00	-20.30	1.01 V	73	18.51	35.19
2	4256.00	44.60 AV	54.00	-9.40	1.01 V	73	9.41	35.19
3	*5320.00	114.60 PK			1.00 V	72	77.34	37.26
4	*5320.00	103.40 AV			1.00 V	72	66.14	37.26
5	5350.00	72.64 PK	74.00	-1.36	1.08 V	101	35.38	37.26
6	5350.00	52.43 AV	54.00	-1.57	1.08 V	101	15.17	37.26
7	10640.00	56.60 PK	74.00	-17.40	1.00 V	290	9.74	46.86
8	10640.00	44.20 AV	54.00	-9.80	1.00 V	290	-2.66	46.86
9	15960.00	68.60 PK	74.00	-5.40	1.00 V	261	21.84	46.76
10	15960.00	53.40 AV	54.00	-0.60	1.00 V	261	6.64	46.76

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4400.00	56.80 PK	74.00	-17.20	1.04 H	84	21.18	35.62
2	4400.00	43.70 AV	54.00	-10.30	1.04 H	84	8.08	35.62
3	5460.00	57.84 PK	74.00	-16.16	1.20 H	259	20.58	37.26
4	5460.00	43.45 AV	54.00	-10.55	1.20 H	259	6.19	37.26
5	#5469.98	66.33 PK	88.30	-21.97	1.51 H	129	29.07	37.26
6	#5469.98	47.69 AV	68.30	-20.61	1.51 H	129	10.43	37.26
7	*5500.00	101.00 PK			1.48 H	193	63.74	37.26
8	*5500.00	90.83 AV			1.48 H	193	53.57	37.26
9	11000.00	57.63 PK	74.00	-16.37	1.34 H	241	10.48	47.15
10	11000.00	42.70 AV	54.00	-11.30	1.34 H	241	-4.45	47.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4400.00	57.30 PK	74.00	-16.70	1.20 V	216	21.68	35.62
2	4400.00	44.20 AV	54.00	-9.80	1.20 V	216	8.58	35.62
3	5460.00	70.57 PK	74.00	-3.43	1.08 V	57	33.31	37.26
4	5460.00	53.00 AV	54.00	-1.00	1.08 V	57	15.74	37.26
5	#5470.00	77.79 PK	88.30	-10.51	1.08 V	56	40.53	37.26
6	#5470.00	60.76 AV	68.30	-7.54	1.08 V	56	23.50	37.26
7	*5500.00	111.76 PK			1.08 V	56	74.50	37.26
8	*5500.00	105.60 AV			1.08 V	56	68.34	37.26
9	11000.00	58.40 PK	74.00	-15.60	1.13 V	258	11.25	47.15
10	11000.00	45.48 AV	54.00	-8.52	1.13 V	258	-1.67	47.15

- 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.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	#4480.00	57.10 PK	88.30	-31.20	1.03 H	79	21.24	35.86
2	#4480.00	43.70 AV	68.30	-24.60	1.03 H	79	7.84	35.86
3	*5600.00	102.46 PK			1.23 H	191	64.92	37.54
4	*5600.00	92.05 AV			1.23 H	191	54.51	37.54
5	11200.00	57.60 PK	74.00	-16.40	1.31 H	254	10.42	47.18
6	11200.00	45.40 AV	54.00	-8.60	1.31 H	254	-1.78	47.18
7	#16800.00	66.70 PK	88.30	-21.60	1.44 H	267	16.65	50.05
8	#16800.00	53.10 AV	68.30	-15.20	1.44 H	267	3.05	50.05

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#4480.00	57.80 PK	88.30	-30.50	1.24 V	213	21.94	35.86
2	#4480.00	44.60 AV	68.30	-23.70	1.24 V	213	8.74	35.86
3	*5600.00	111.63 PK			1.04 V	59	74.09	37.54
4	*5600.00	107.10 AV			1.04 V	59	69.56	37.54
5	11200.00	60.30 PK	74.00	-13.70	1.00 V	248	13.12	47.18
6	11200.00	48.20 AV	54.00	-5.80	1.00 V	248	1.02	47.18
7	#16800.00	67.10 PK	88.30	-21.20	1.00 V	288	17.05	50.05
8	#16800.00	53.50 AV	68.30	-14.80	1.00 V	288	3.45	50.05

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Frank Liu

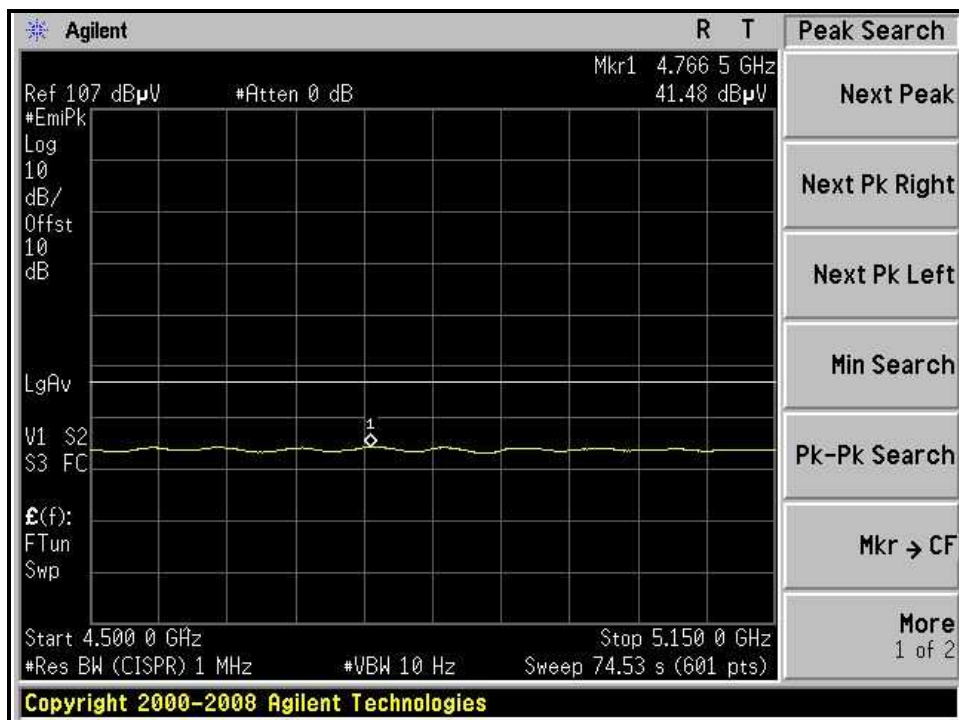
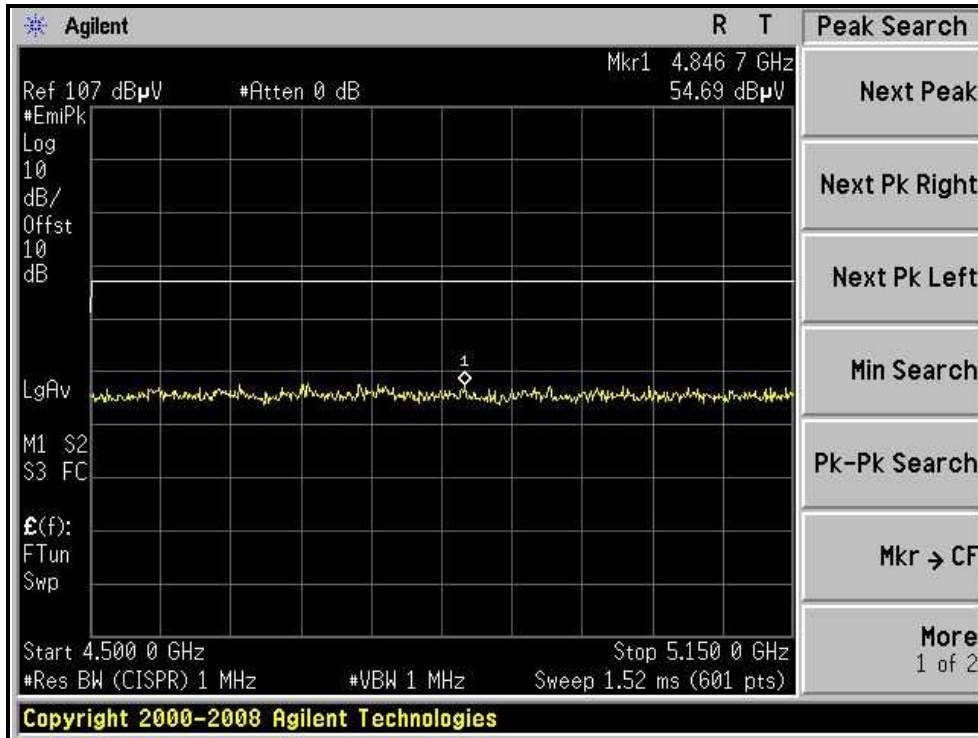
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4560.00	57.40 PK	74.00	-16.60	1.03 H	84	21.32	36.08
2	4560.00	43.90 AV	54.00	-10.10	1.03 H	84	7.82	36.08
3	*5700.00	101.24 PK			1.42 H	194	63.41	37.83
4	*5700.00	91.04 AV			1.42 H	194	53.21	37.83
5	#5725.12	71.82 PK	88.30	-16.48	1.54 H	75	33.92	37.90
6	#5725.12	57.23 AV	68.30	-11.07	1.54 H	75	19.33	37.90
7	11400.00	57.90 PK	74.00	-16.10	1.34 H	234	10.69	47.21
8	11400.00	46.30 AV	54.00	-7.70	1.34 H	234	-0.91	47.21
9	#17100.00	68.10 PK	88.30	-20.20	1.43 H	264	16.70	51.40
10	#17100.00	52.70 AV	68.30	-15.60	1.43 H	264	1.30	51.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4560.00	57.20 PK	74.00	-16.80	1.20 V	219	21.12	36.08
2	4560.00	44.30 AV	54.00	-9.70	1.20 V	219	8.22	36.08
3	*5700.00	111.26 PK			1.02 V	73	73.43	37.83
4	*5700.00	106.40 AV			1.02 V	73	68.57	37.83
5	#5725.00	80.77 PK	88.30	-7.53	1.04 V	60	42.87	37.90
6	#5725.00	67.50 AV	68.30	-0.80	1.04 V	60	29.60	37.90
7	11400.00	60.50 PK	74.00	-13.50	1.00 V	251	13.29	47.21
8	11400.00	48.70 AV	54.00	-5.30	1.00 V	251	1.49	47.21
9	#17100.00	68.50 PK	88.30	-19.80	1.00 V	265	17.10	51.40
10	#17100.00	53.50 AV	68.30	-14.80	1.00 V	265	2.10	51.40

- 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.
 6. "#":The radiated frequency is out the restricted band.



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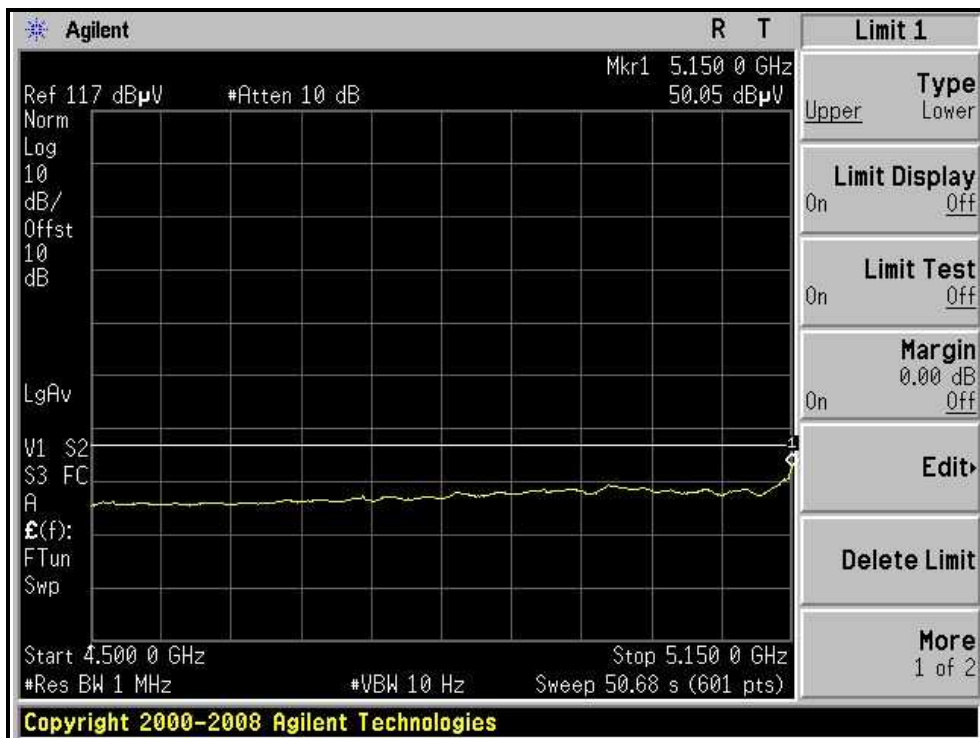
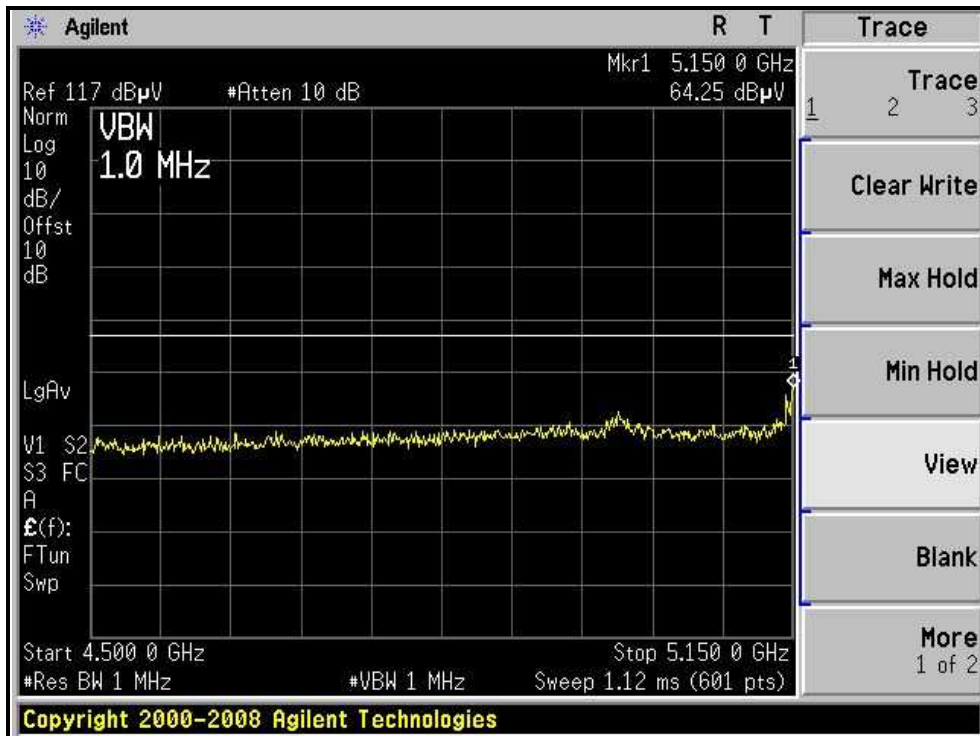
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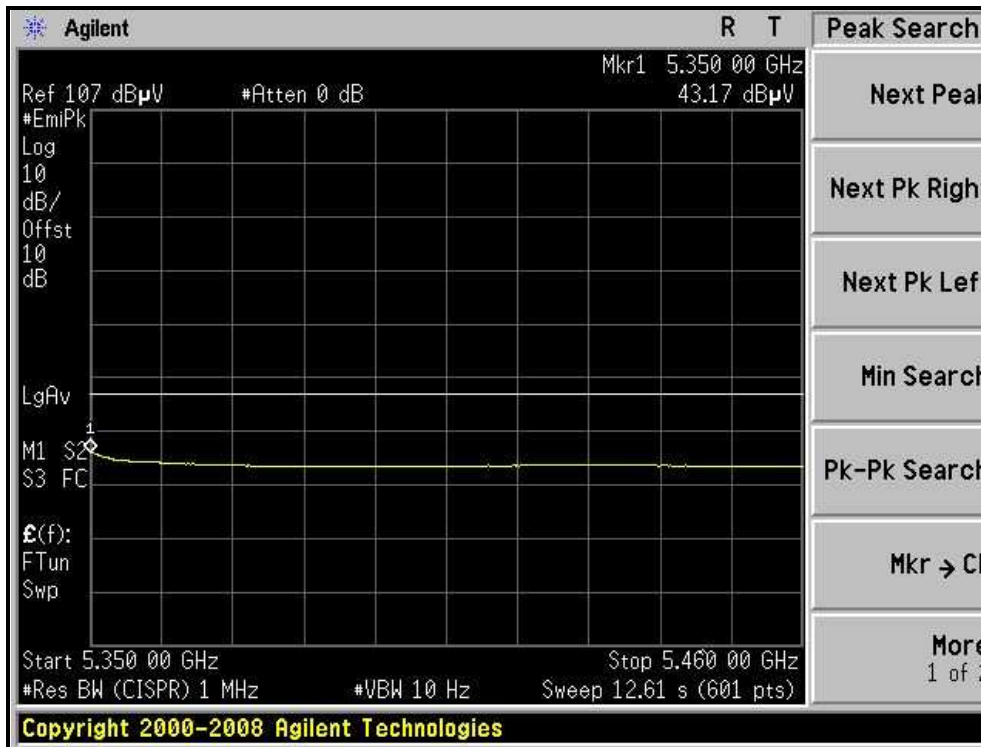
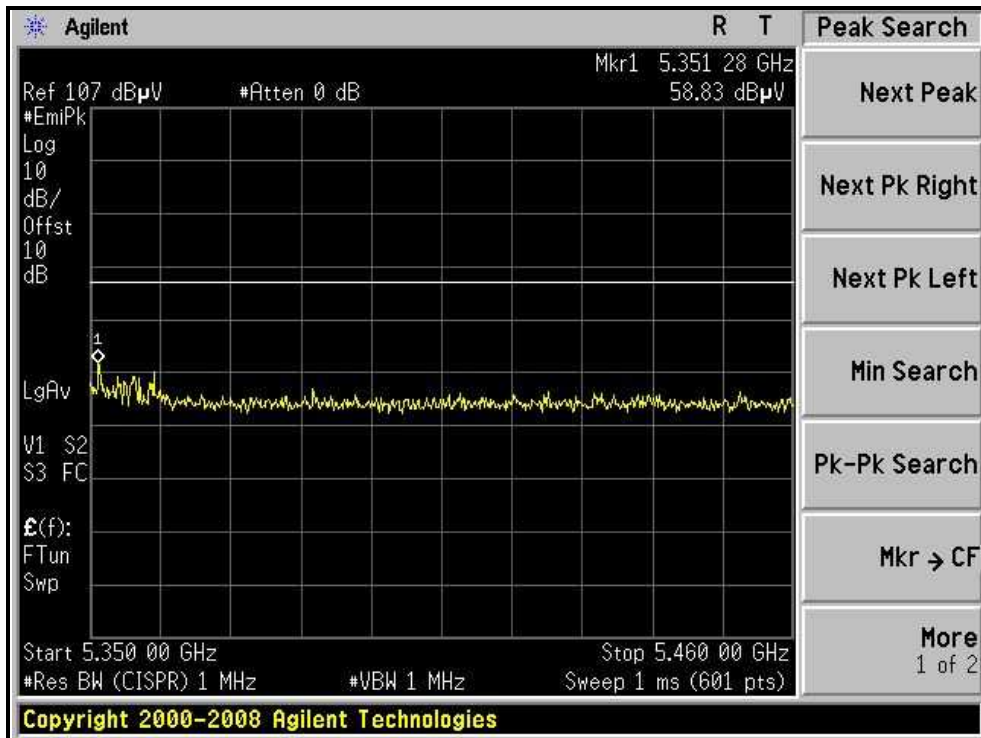


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RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH36, VERTICAL)



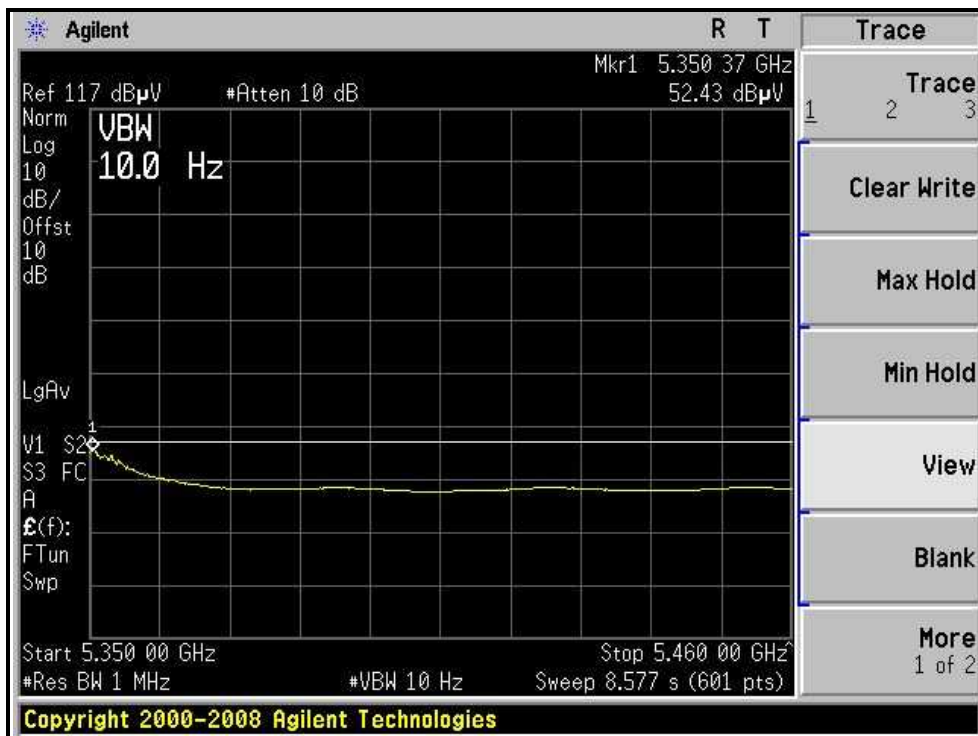
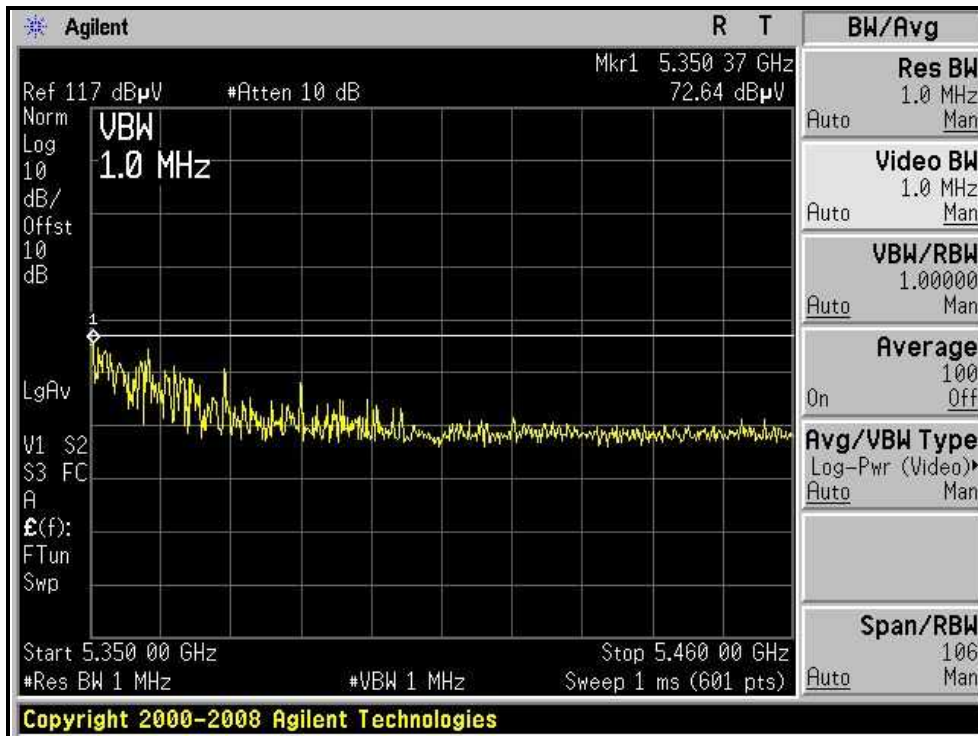
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH64, HORIZONTAL)





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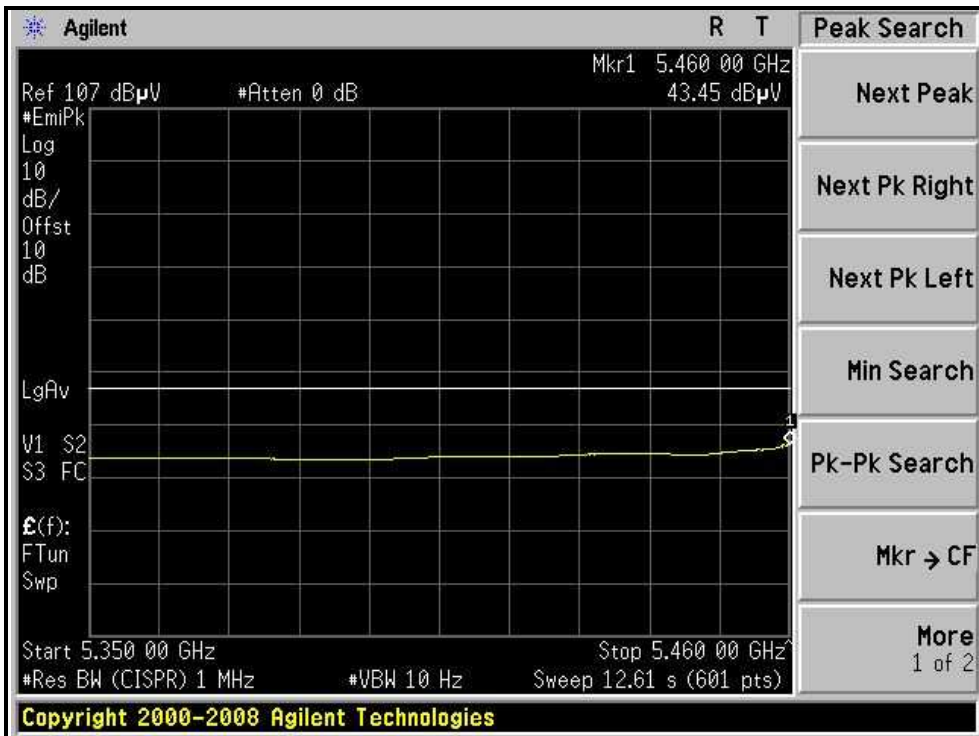
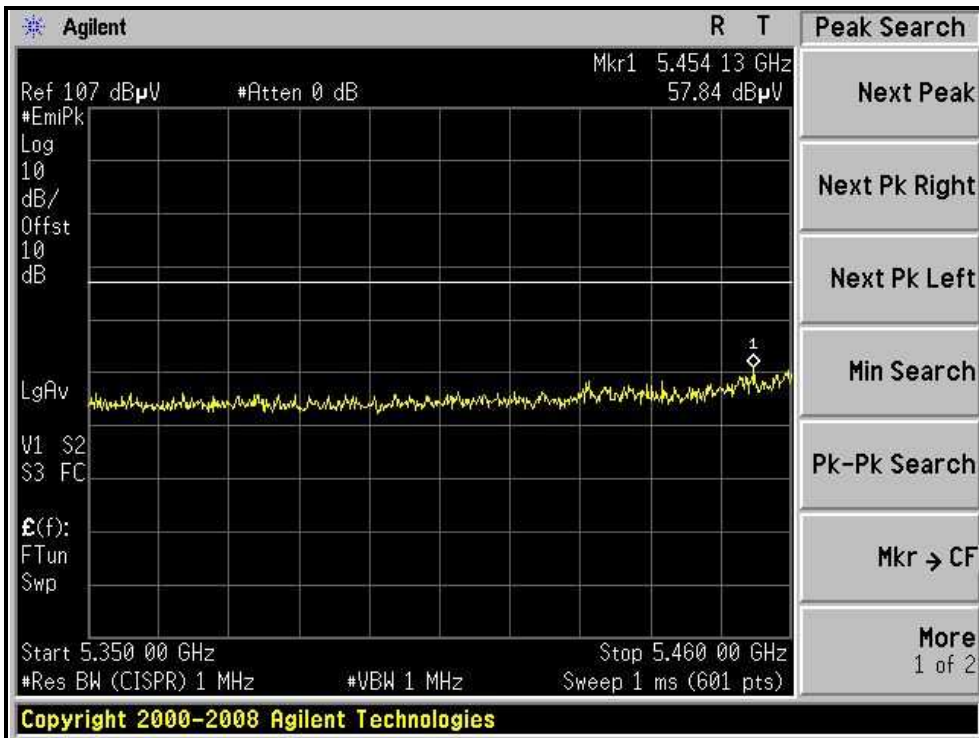
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH64, VERTICAL)





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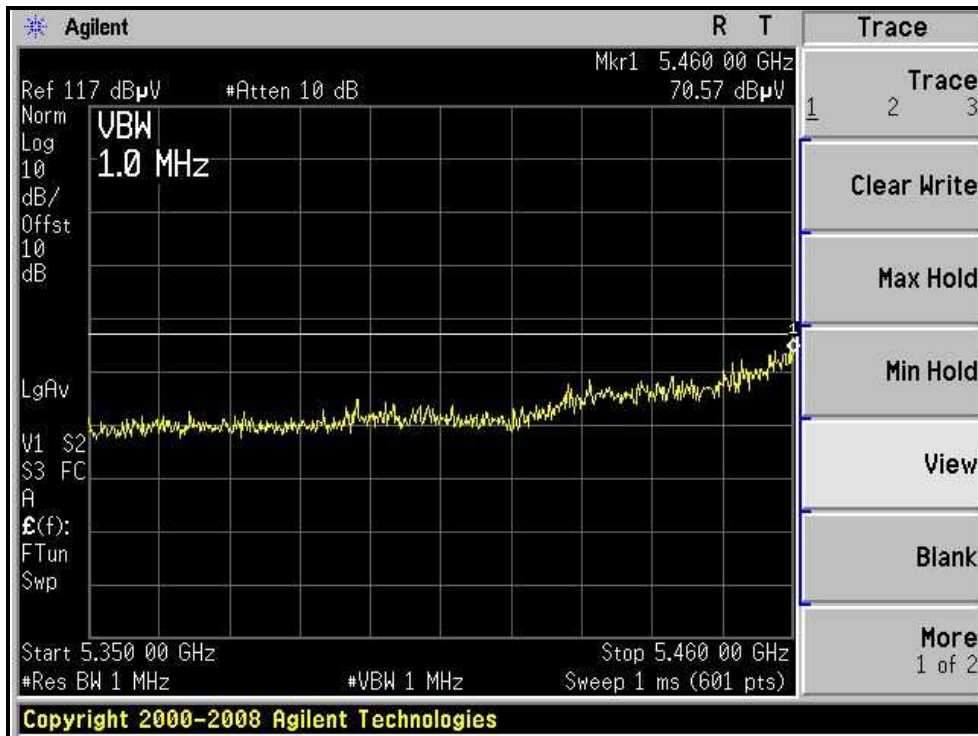
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH100, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH100, VERTICAL)





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DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4152.00	52.40 PK	74.00	-21.60	1.04 H	67	17.52	34.88
2	4152.00	43.50 AV	54.00	-10.50	1.04 H	67	8.62	34.88
3	5150.00	57.62 PK	74.00	-16.38	1.26 H	186	20.36	37.26
4	5150.00	43.50 AV	54.00	-10.50	1.26 H	186	6.24	37.26
5	*5190.00	94.80 PK			1.27 H	190	57.54	37.26
6	*5190.00	83.78 AV			1.27 H	190	46.52	37.26
7	#10380.00	54.10 PK	88.30	-34.20	1.21 H	294	7.45	46.65
8	#10380.00	44.20 AV	68.30	-24.10	1.21 H	294	-2.45	46.65
9	15570.00	58.60 PK	74.00	-15.40	1.43 H	312	11.10	47.50
10	15570.00	47.40 AV	54.00	-6.60	1.43 H	312	-0.10	47.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4152.00	52.90 PK	74.00	-21.10	1.02 V	76	18.02	34.88
2	4152.00	44.60 AV	54.00	-9.40	1.02 V	76	9.72	34.88
3	5150.00	62.57 PK	74.00	-11.43	1.05 V	107	25.31	37.26
4	5150.00	50.15 AV	54.00	-3.85	1.05 V	107	12.89	37.26
5	*5190.00	109.30 PK			1.01 V	104	72.04	37.26
6	*5190.00	98.40 AV			1.01 V	104	61.14	37.26
7	#10380.00	55.20 PK	88.30	-33.10	1.01 V	259	8.55	46.65
8	#10380.00	44.30 AV	68.30	-24.00	1.01 V	259	-2.35	46.65
9	15570.00	58.90 PK	74.00	-15.10	1.00 V	27	11.40	47.50
10	15570.00	47.10 AV	54.00	-6.90	1.00 V	27	-0.40	47.50

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4184.00	52.40 PK	74.00	-21.60	1.01 H	73	17.43	34.97
2	4184.00	43.20 AV	54.00	-10.80	1.01 H	73	8.23	34.97
3	*5230.00	94.00 PK			1.43 H	198	56.74	37.26
4	*5230.00	82.85 AV			1.43 H	198	45.59	37.26
5	#10460.00	54.20 PK	88.30	-34.10	1.23 H	181	7.48	46.72
6	#10460.00	44.20 AV	68.30	-24.10	1.23 H	181	-2.52	46.72
7	15690.00	58.60 PK	74.00	-15.40	1.00 H	254	11.33	47.27
8	15690.00	47.10 AV	54.00	-6.90	1.00 H	254	-0.17	47.27

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4184.00	52.80 PK	74.00	-21.20	1.04 V	87	17.83	34.97
2	4184.00	44.10 AV	54.00	-9.90	1.04 V	87	9.13	34.97
3	*5230.00	109.20 PK			1.02 V	107	71.94	37.26
4	*5230.00	98.10 AV			1.02 V	107	60.84	37.26
5	#10460.00	54.70 PK	88.30	-33.60	1.04 V	253	7.98	46.72
6	#10460.00	44.60 AV	68.30	-23.70	1.04 V	253	-2.12	46.72
7	15690.00	59.30 PK	74.00	-14.70	1.00 V	267	12.03	47.27
8	15690.00	47.40 AV	54.00	-6.60	1.00 V	267	0.13	47.27

- 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.
 6. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4216.00	51.70 PK	74.00	-22.30	1.07 H	74	16.63	35.07
2	4216.00	43.70 AV	54.00	-10.30	1.07 H	74	8.63	35.07
3	*5270.00	100.17 PK			1.47 H	198	62.91	37.26
4	*5270.00	89.06 AV			1.47 H	198	51.80	37.26
5	#10540.00	54.10 PK	88.30	-34.20	1.04 H	253	7.32	46.78
6	#10540.00	44.50 AV	68.30	-23.80	1.04 H	253	-2.28	46.78
7	15810.00	68.40 PK	74.00	-5.60	1.04 H	254	21.36	47.04
8	15810.00	52.70 AV	54.00	-1.30	1.04 H	254	5.66	47.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4216.00	52.40 PK	74.00	-21.60	1.01 V	89	17.33	35.07
2	4216.00	44.20 AV	54.00	-9.80	1.01 V	89	9.13	35.07
3	*5270.00	116.20 PK			1.01 V	109	78.94	37.26
4	*5270.00	103.40 AV			1.01 V	109	66.14	37.26
5	#10540.00	54.67 PK	88.30	-33.63	1.01 V	254	7.89	46.78
6	#10540.00	44.20 AV	68.30	-24.10	1.01 V	254	-2.58	46.78
7	15810.00	69.30 PK	74.00	-4.70	1.01 V	259	22.26	47.04
8	15810.00	53.50 AV	54.00	-0.50	1.01 V	259	6.46	47.04

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	4248.00	51.70 PK	74.00	-22.30	1.03 H	79	16.54	35.16
2	4248.00	43.70 AV	54.00	-10.30	1.03 H	79	8.54	35.16
3	*5310.00	95.31 PK			1.24 H	191	58.05	37.26
4	*5310.00	83.38 AV			1.24 H	191	46.12	37.26
5	5350.00	57.76 PK	74.00	-16.24	1.19 H	189	20.50	37.26
6	5350.00	44.42 AV	54.00	-9.58	1.19 H	189	7.16	37.26
7	10620.00	54.20 PK	74.00	-19.80	1.01 H	254	7.35	46.85
8	10620.00	44.10 AV	54.00	-9.90	1.01 H	254	-2.75	46.85
9	15930.00	60.60 PK	74.00	-13.40	1.00 H	243	13.79	46.81
10	15930.00	47.40 AV	54.00	-6.60	1.00 H	243	0.59	46.81
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4248.00	52.30 PK	74.00	-21.70	1.04 V	83	17.14	35.16
2	4248.00	44.10 AV	54.00	-9.90	1.04 V	83	8.94	35.16
3	*5310.00	109.40 PK			1.02 V	113	72.14	37.26
4	*5310.00	98.70 AV			1.02 V	113	61.44	37.26
5	5350.00	64.79 PK	74.00	-9.21	1.02 V	114	27.53	37.26
6	5350.00	53.43 AV	54.00	-0.57	1.02 V	114	16.17	37.26
7	10620.00	54.90 PK	74.00	-19.10	1.02 V	267	8.05	46.85
8	10620.00	45.60 AV	54.00	-8.40	1.02 V	267	-1.25	46.85
9	15930.00	61.00 PK	74.00	-13.00	1.00 V	261	14.19	46.81
10	15930.00	48.00 AV	54.00	-6.00	1.00 V	261	1.19	46.81

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	#4408.00	53.55 PK	88.30	-34.75	1.67 H	10	17.91	35.64
2	#4408.00	41.76 AV	68.30	-26.54	1.67 H	10	6.12	35.64
3	5460.00	56.70 PK	74.00	-17.30	1.10 H	106	19.44	37.26
4	5460.00	45.16 AV	54.00	-8.84	1.10 H	106	7.90	37.26
5	#5470.00	65.48 PK	88.30	-22.82	1.54 H	194	28.22	37.26
6	#5470.00	48.10 AV	68.30	-20.20	1.54 H	194	10.84	37.26
7	*5510.00	94.64 PK			1.46 H	193	57.35	37.29
8	*5510.00	83.39 AV			1.46 H	193	46.10	37.29
9	11020.00	55.91 PK	74.00	-18.09	1.24 H	300	8.76	47.15
10	11020.00	44.69 AV	54.00	-9.31	1.24 H	300	-2.46	47.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#4408.00	52.30 PK	88.30	-36.00	1.09 V	77	16.66	35.64
2	#4408.00	44.60 AV	68.30	-23.70	1.09 V	77	8.96	35.64
3	5460.00	69.24 PK	74.00	-4.76	1.10 V	120	31.98	37.26
4	5460.00	53.26 AV	54.00	-0.74	1.10 V	120	16.00	37.26
5	#5470.00	74.38 PK	88.30	-13.92	1.00 V	120	37.12	37.26
6	#5470.00	57.69 AV	68.30	-10.61	1.00 V	120	20.43	37.26
7	*5510.00	110.20 PK			1.03 V	121	72.91	37.29
8	*5510.00	99.30 AV			1.03 V	121	62.01	37.29
9	11020.00	66.40 PK	74.00	-7.60	1.31 V	318	19.25	47.15
10	11020.00	52.70 AV	54.00	-1.30	1.31 V	318	5.55	47.15
11	#16530.00	59.11 PK	88.30	-29.19	1.00 V	263	9.94	49.17
12	#16530.00	47.63 AV	68.30	-20.67	1.00 V	263	-1.54	49.17

- 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.
 6. “#“: The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	#4472.00	52.98 PK	88.30	-35.32	1.71 H	43	17.14	35.84
2	#4472.00	42.64 AV	68.30	-25.66	1.71 H	43	6.80	35.84
3	*5590.00	103.22 PK			1.30 H	304	65.70	37.52
4	*5590.00	90.72 AV			1.30 H	304	53.20	37.52
5	11180.00	56.43 PK	74.00	-17.57	1.39 H	311	9.25	47.18
6	11180.00	45.97 AV	54.00	-8.03	1.39 H	311	-1.21	47.18
7	#16770.00	58.64 PK	88.30	-29.66	1.70 H	28	8.68	49.96
8	#16770.00	45.97 AV	68.30	-22.33	1.70 H	28	-3.99	49.96

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#4472.00	52.10 PK	88.30	-36.20	1.06 V	79	16.26	35.84
2	#4472.00	44.30 AV	68.30	-24.00	1.06 V	79	8.46	35.84
3	*5590.00	117.90 PK			1.04 V	121	80.38	37.52
4	*5590.00	104.30 AV			1.04 V	121	66.78	37.52
5	11180.00	65.30 PK	74.00	-8.70	1.34 V	339	18.12	47.18
6	11180.00	53.10 AV	54.00	-0.90	1.34 V	339	5.92	47.18
7	#16770.00	67.40 PK	88.30	-20.90	1.00 V	263	17.44	49.96
8	#16770.00	53.50 AV	68.30	-14.80	1.00 V	263	3.54	49.96

- 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.
 6. “#”:The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	TESTED BY	Frank Liu

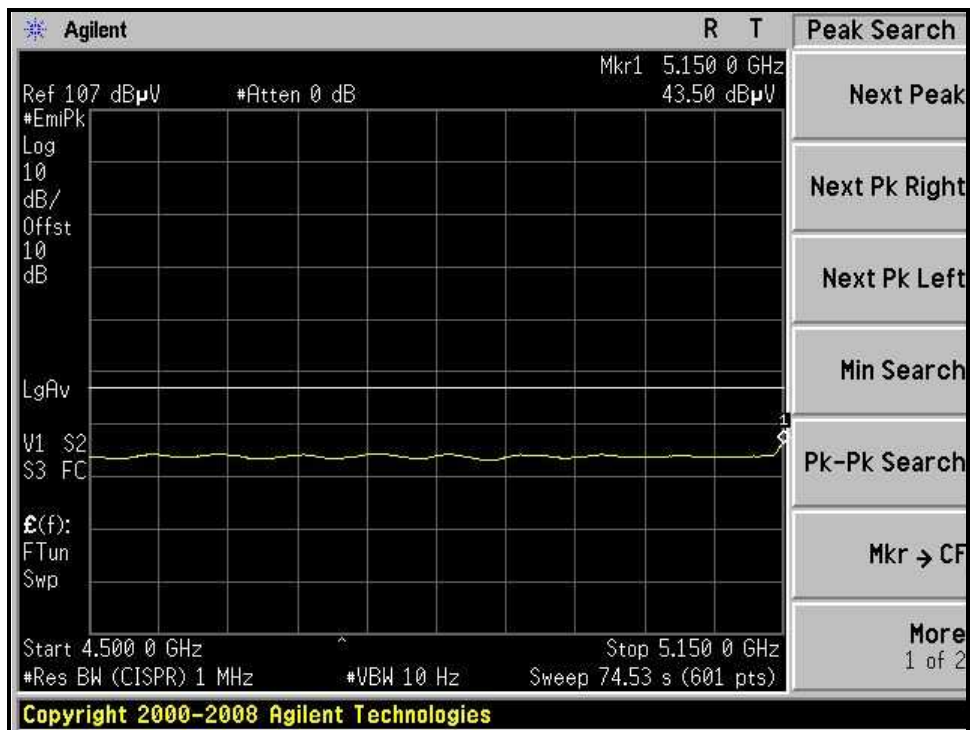
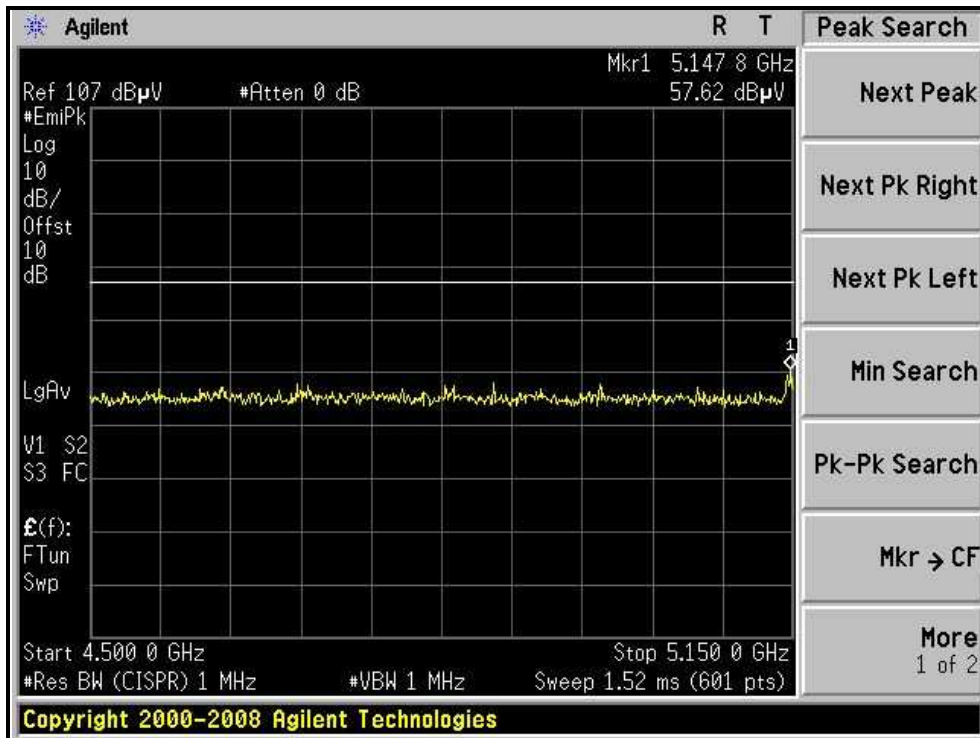
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4536.00	52.27 PK	74.00	-21.73	1.18 H	2	16.25	36.02
2	4536.00	41.58 AV	54.00	-12.42	1.18 H	2	5.56	36.02
3	*5670.00	103.47 PK			1.27 H	288	65.73	37.74
4	*5670.00	89.27 AV			1.27 H	288	51.53	37.74
5	#5725.00	66.83 PK	88.30	-21.47	1.73 H	200	28.93	37.90
6	#5725.00	49.99 AV	68.30	-18.31	1.73 H	200	12.09	37.90
7	11340.00	56.70 PK	74.00	-17.30	1.68 H	71	9.50	47.20
8	11340.00	45.80 AV	54.00	-8.20	1.68 H	71	-1.40	47.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4536.00	52.40 PK	74.00	-21.60	1.01 V	74	16.38	36.02
2	4536.00	44.20 AV	54.00	-9.80	1.01 V	74	8.18	36.02
3	*5670.00	116.54 PK			1.05 V	118	78.80	37.74
4	*5670.00	103.70 AV			1.05 V	118	65.96	37.74
5	#5725.00	78.68 PK	88.30	-9.62	1.05 V	122	40.78	37.90
6	#5725.00	66.43 AV	68.30	-1.87	1.05 V	122	28.53	37.90
7	11340.00	66.80 PK	74.00	-7.20	1.32 V	321	19.60	47.20
8	11340.00	52.60 AV	54.00	-1.40	1.32 V	321	5.40	47.20
9	#17010.00	67.20 PK	88.30	-21.10	1.00 V	257	16.42	50.78
10	#17010.00	53.46 AV	68.30	-14.84	1.00 V	257	2.68	50.78

- 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.
 6. “#“: The radiated frequency is out the restricted band.



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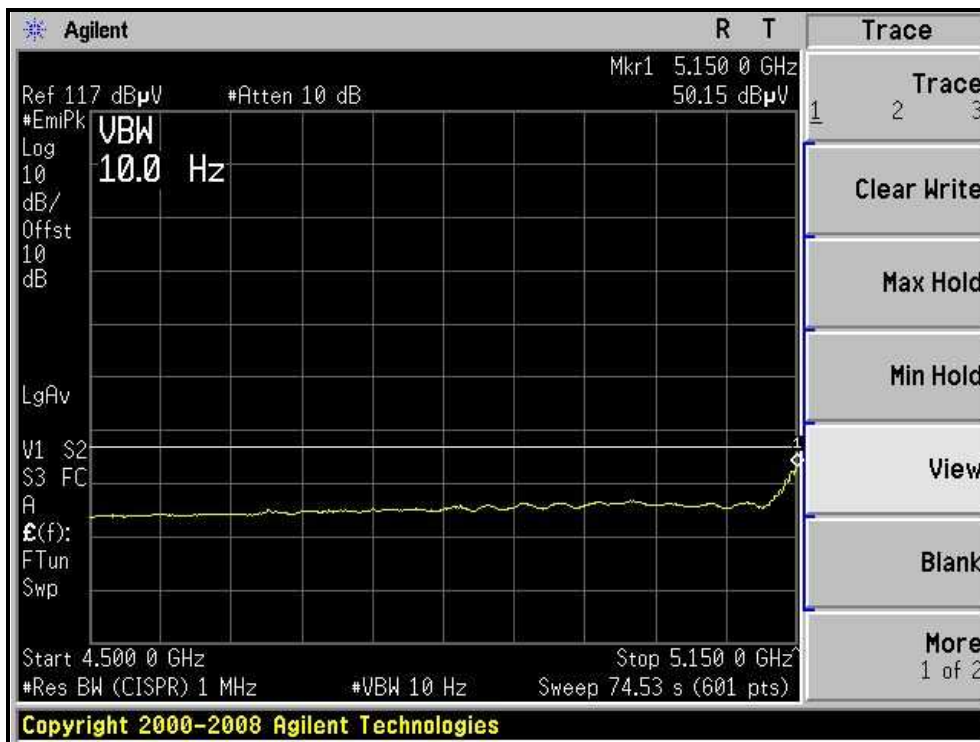
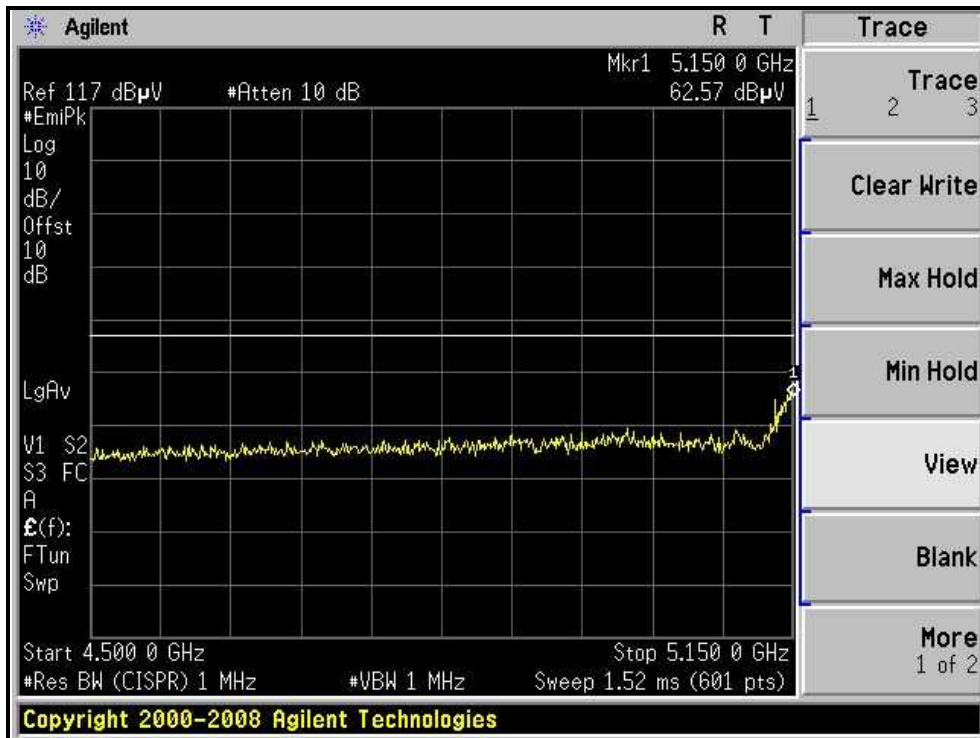
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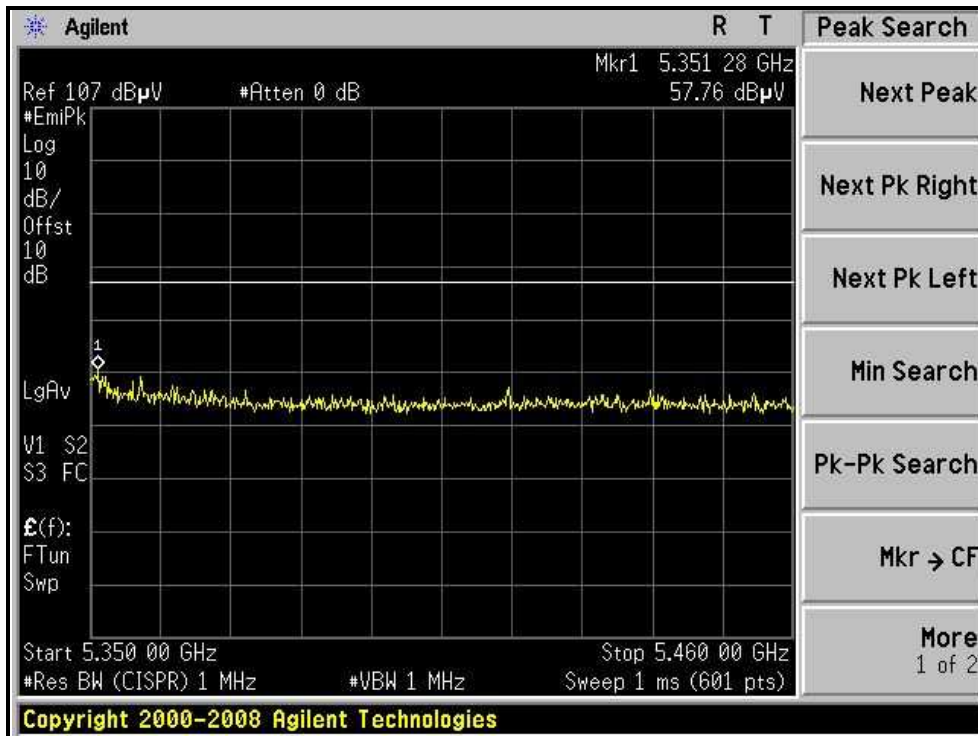
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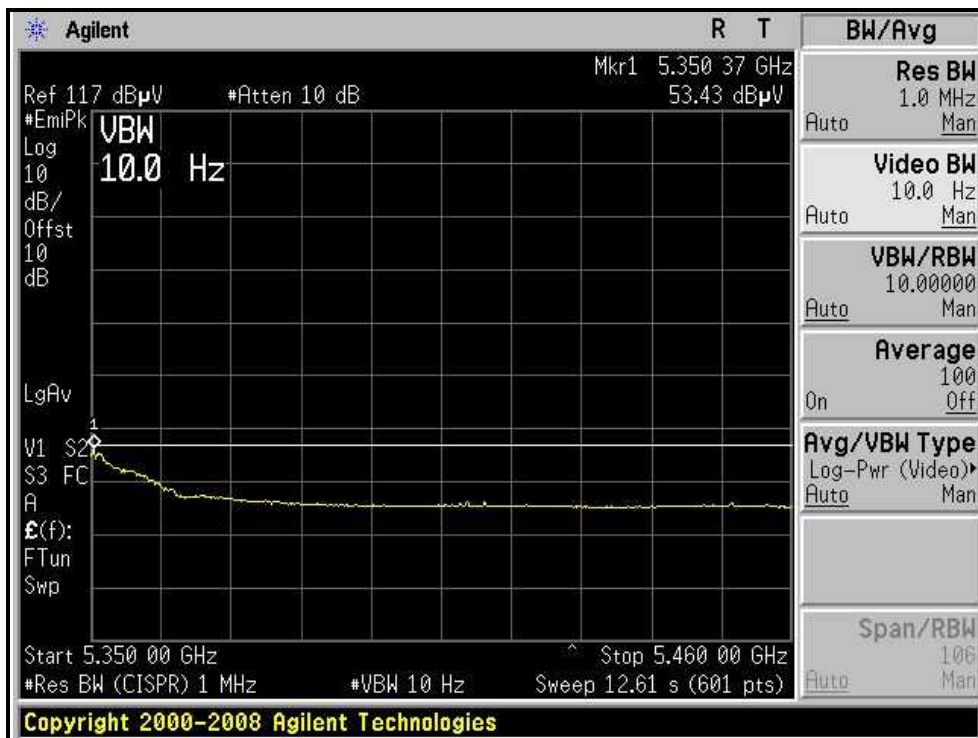
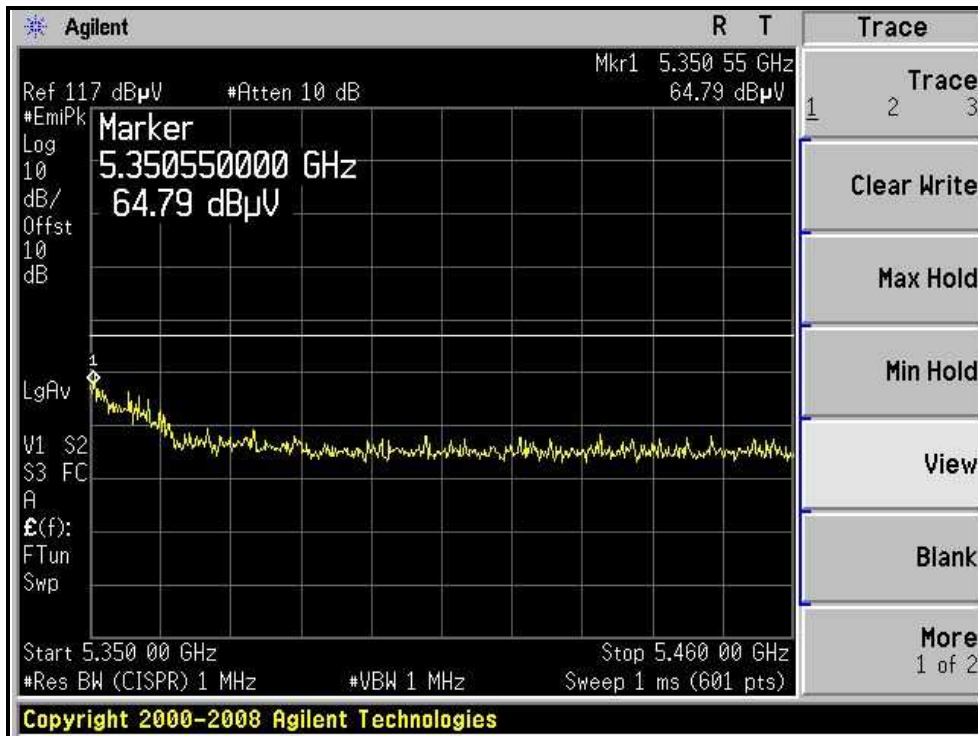
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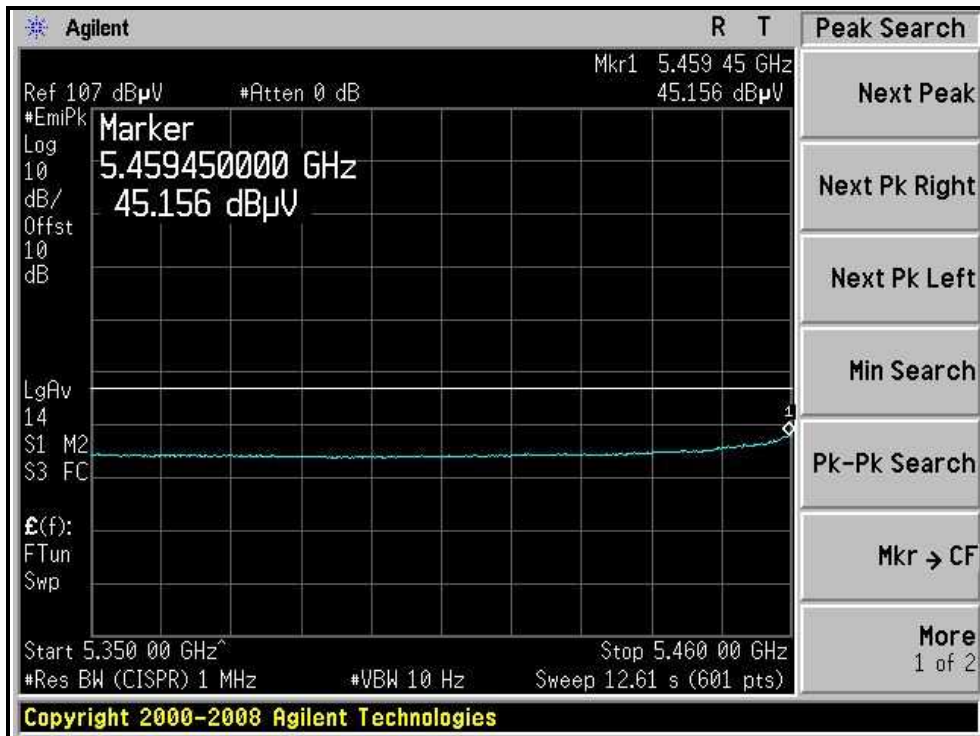
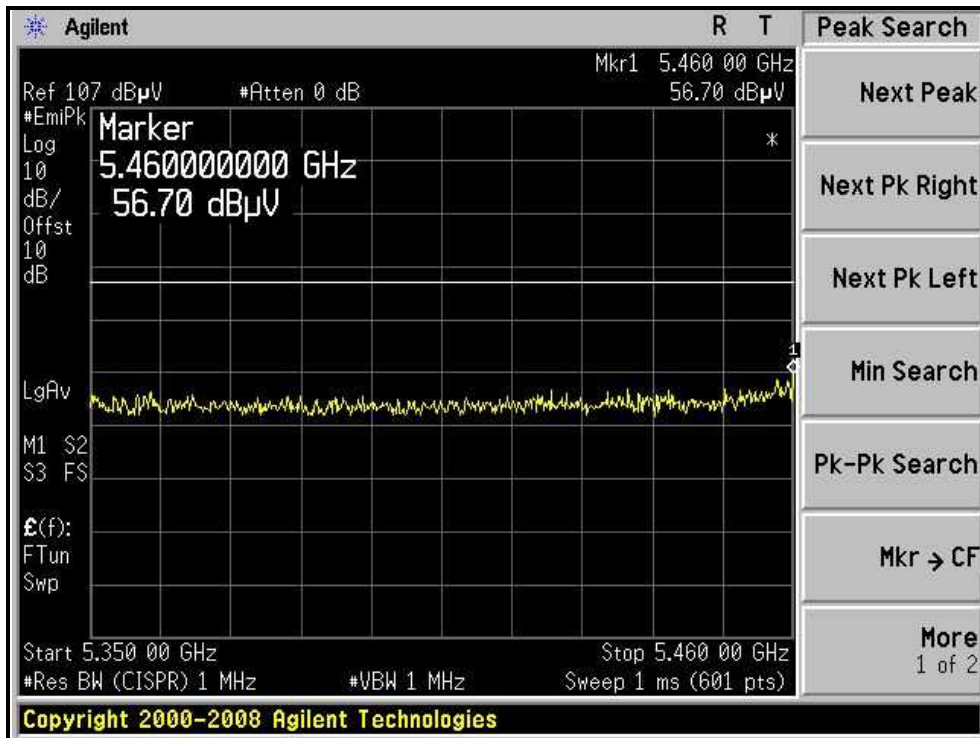
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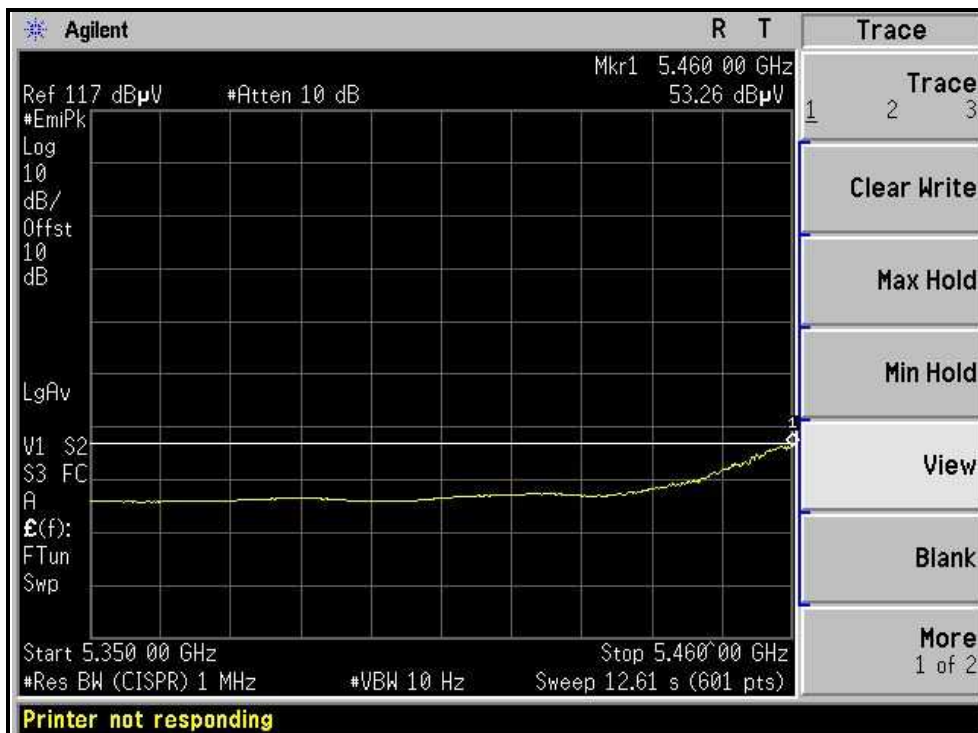
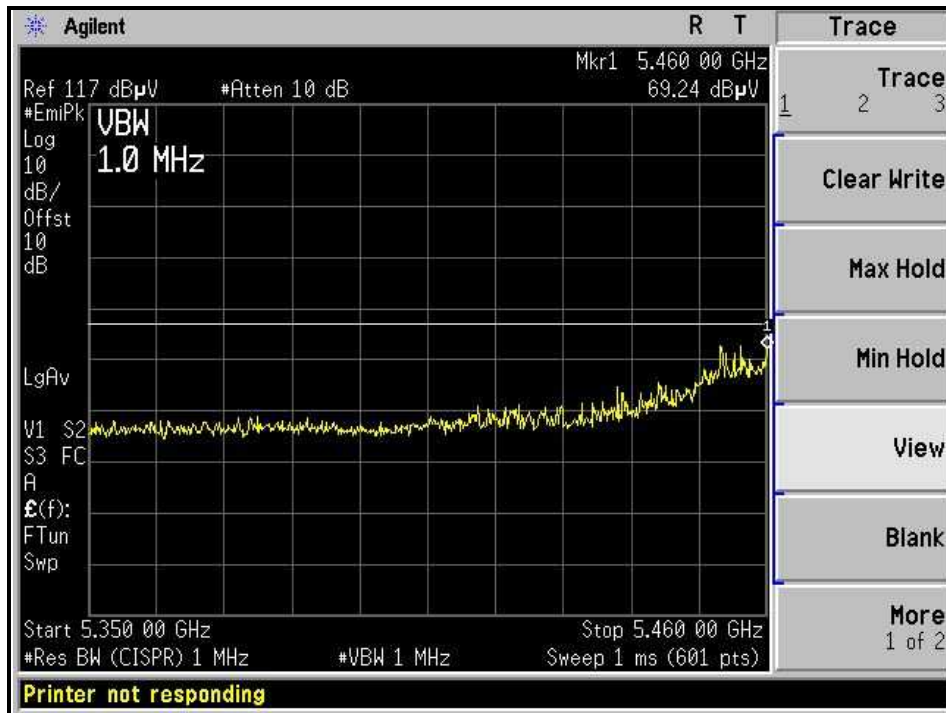
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH102, HORIZONTAL)





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RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH102, VERTICAL)





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Below 1GHz Test Data

4.1.10 TEST RESULTS (FOR RECEIVER PART)

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25.0deg. C, 55.0%RH 965hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	120.01	24.69 QP	43.50	-18.81	1.32 H	69	12.14	12.55
2	199.83	40.23 QP	43.50	-3.27	1.11 H	65	27.83	12.40
3	240.03	32.15 QP	46.00	-13.85	1.11 H	246	18.27	13.88
4	360.01	28.24 QP	46.00	-17.76	1.06 H	234	9.84	18.40
5	399.66	42.90 QP	46.00	-3.10	2.00 H	149	23.41	19.49
6	480.00	28.24 QP	46.00	-17.76	1.16 H	95	6.35	21.89
7	600.03	34.65 QP	46.00	-11.35	1.68 H	45	9.61	25.04
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	119.99	27.95 QP	43.50	-15.55	1.34 V	352	15.40	12.55
2	200.00	30.00 QP	43.50	-13.50	1.42 V	3	17.61	12.39
3	240.00	28.97 QP	46.00	-17.03	1.03 V	56	15.09	13.88
4	250.00	25.45 QP	46.00	-20.55	2.00 V	295	11.20	14.25
5	399.68	42.92 QP	46.00	-3.08	1.65 V	223	23.43	19.49
6	535.12	34.14 QP	46.00	-11.86	1.73 V	99	10.66	23.48

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

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

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.



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Above 1GHz Test Data

4.1.11 TEST RESULTS (FOR RECEIVER PART)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3453.30	35.60 PK	74.00	-38.40	1.00 H	231	2.74	32.86
2	3453.30	23.40 AV	54.00	-30.60	1.00 H	231	-9.46	32.86
3	6906.60	43.40 PK	74.00	-30.60	1.58 H	285	0.48	42.92
4	6906.60	34.10 AV	54.00	-19.90	1.58 H	285	-8.82	42.92
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3453.30	35.50 PK	74.00	-38.50	1.00 V	23	2.64	32.86
2	3453.30	23.70 AV	54.00	-30.30	1.00 V	23	-9.16	32.86
3	6906.60	46.70 PK	74.00	-27.30	1.47 V	350	3.78	42.92
4	6906.60	39.90 AV	54.00	-14.10	1.47 V	350	-3.02	42.92

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3466.60	35.40 PK	74.00	-38.60	1.00 H	221	2.52	32.88
2	3466.60	24.10 AV	54.00	-29.90	1.00 H	221	-8.78	32.88
3	6933.30	43.70 PK	74.00	-30.30	1.62 H	313	0.71	42.99
4	6933.30	34.60 AV	54.00	-19.40	1.62 H	313	-8.39	42.99
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3466.60	35.70 PK	74.00	-38.30	1.17 V	320	2.82	32.88
2	3466.60	25.40 AV	54.00	-28.60	1.17 V	320	-7.48	32.88
3	6933.30	46.70 PK	74.00	-27.30	1.49 V	351	3.71	42.99
4	6933.30	41.10 AV	54.00	-12.90	1.49 V	351	-1.89	42.99

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3493.30	36.30 PK	74.00	-37.70	1.04 H	242	3.40	32.90
2	3493.30	26.40 AV	54.00	-27.60	1.04 H	242	-6.50	32.90
3	6986.60	43.40 PK	74.00	-30.60	1.54 H	319	0.27	43.13
4	6986.60	35.20 AV	54.00	-18.80	1.54 H	319	-7.93	43.13
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3493.30	37.90 PK	74.00	-36.10	1.11 V	321	5.00	32.90
2	3493.30	27.60 AV	54.00	-26.40	1.11 V	321	-5.30	32.90
3	6986.60	46.80 PK	74.00	-27.20	1.44 V	358	3.67	43.13
4	6986.60	41.40 AV	54.00	-12.60	1.44 V	358	-1.73	43.13

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3506.60	37.20 PK	74.00	-36.80	1.01 H	243	4.27	32.93
2	3506.60	27.30 AV	54.00	-26.70	1.01 H	243	-5.63	32.93
3	7013.30	43.70 PK	74.00	-30.30	1.61 H	304	0.54	43.16
4	7013.30	36.30 AV	54.00	-17.70	1.61 H	304	-6.86	43.16
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3506.60	38.60 PK	74.00	-35.40	1.07 V	317	5.67	32.93
2	3506.60	28.90 AV	54.00	-25.10	1.07 V	317	-4.03	32.93
3	7013.30	44.80 PK	74.00	-29.20	1.44 V	348	1.64	43.16
4	7013.30	37.20 AV	54.00	-16.80	1.44 V	348	-5.96	43.16

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3533.30	37.40 PK	74.00	-36.60	1.03 H	284	4.39	33.01
2	3533.30	27.40 AV	54.00	-26.60	1.03 H	284	-5.61	33.01
3	7066.60	44.20 PK	74.00	-29.80	1.02 H	274	1.05	43.15
4	7066.60	39.10 AV	54.00	-14.90	1.02 H	274	-4.05	43.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3533.30	39.60 PK	74.00	-34.40	1.01 V	300	6.59	33.01
2	3533.30	29.70 AV	54.00	-24.30	1.01 V	300	-3.31	33.01
3	7066.60	46.80 PK	74.00	-27.20	1.44 V	348	3.65	43.15
4	7066.60	42.10 AV	54.00	-11.90	1.44 V	348	-1.05	43.15

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3546.60	42.70 PK	74.00	-31.30	1.03 H	234	9.65	33.05
2	3546.60	30.30 AV	54.00	-23.70	1.03 H	234	-2.75	33.05
3	7093.30	44.30 PK	74.00	-29.70	1.64 H	310	1.15	43.15
4	7093.30	37.60 AV	54.00	-16.40	1.64 H	310	-5.55	43.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3546.60	43.60 PK	74.00	-30.40	1.14 V	312	10.55	33.05
2	3546.60	31.70 AV	54.00	-22.30	1.14 V	312	-1.35	33.05
3	7093.30	46.90 PK	74.00	-27.10	1.46 V	357	3.75	43.15
4	7093.30	42.40 AV	54.00	-11.60	1.46 V	357	-0.75	43.15

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3666.60	44.30 PK	74.00	-29.70	1.01 H	241	10.89	33.41
2	3666.60	36.10 AV	54.00	-17.90	1.01 H	241	2.69	33.41
3	7333.30	44.50 PK	74.00	-29.50	1.76 H	323	1.37	43.13
4	7333.30	38.00 AV	54.00	-16.00	1.76 H	323	-5.13	43.13
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3666.60	45.80 PK	74.00	-28.20	1.15 V	313	12.39	33.41
2	3666.60	37.10 AV	54.00	-16.90	1.15 V	313	3.69	33.41
3	7333.30	47.10 PK	74.00	-26.90	1.58 V	358	3.97	43.13
4	7333.30	42.80 AV	54.00	-11.20	1.58 V	358	-0.33	43.13

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3733.30	43.20 PK	74.00	-30.80	1.02 H	249	9.59	33.61
2	3733.30	35.70 AV	54.00	-18.30	1.02 H	249	2.09	33.61
3	7466.60	45.30 PK	74.00	-28.70	1.61 H	312	2.18	43.12
4	7466.60	39.50 AV	54.00	-14.50	1.61 H	312	-3.62	43.12
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3733.30	44.30 PK	74.00	-29.70	1.14 V	321	10.69	33.61
2	3733.30	36.40 AV	54.00	-17.60	1.14 V	321	2.79	33.61
3	7466.60	46.30 PK	74.00	-27.70	1.62 V	348	3.18	43.12
4	7466.60	43.10 AV	54.00	-10.90	1.62 V	348	-0.02	43.12

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 30GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25.0deg. C, 66.0%RH 965hPa	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	3800.00	44.60 PK	74.00	-29.40	1.01 H	241	10.78	33.82
2	3800.00	35.90 AV	54.00	-18.10	1.01 H	241	2.08	33.82
3	7600.00	46.10 PK	74.00	-27.90	1.52 H	304	2.79	43.31
4	7600.00	40.70 AV	54.00	-13.30	1.52 H	304	-2.61	43.31
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3800.00	45.60 PK	74.00	-28.40	1.13 V	309	11.78	33.82
2	3800.00	36.90 AV	54.00	-17.10	1.13 V	309	3.08	33.82
3	7600.00	47.60 PK	74.00	-26.40	1.64 V	351	4.29	43.31
4	7600.00	44.80 AV	54.00	-9.20	1.64 V	351	1.49	43.31

- 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.