



FCC TEST REPORT

REPORT NO.: RF991004E05A R1

MODEL NO.: WUS-N18M

FCC ID: BOUWUSN18M

RECEIVED: Dec. 22, 2011

TESTED: Dec. 26, 2011 to Feb. 02, 2012

ISSUED: Mar. 13, 2012

APPLICANT: Philips Consumer Lifestyle

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

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF991004E05A	Original release	Feb. 17, 2012
RF991004E05A R1	Modified the address of the applicant.	Mar. 13, 2012




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1. CERTIFICATION

PRODUCT: WUS-N18M USB Wi-Fi module
BRAND NAME: Philips
MODEL NO.: WUS-N18M
TEST SAMPLE: MASS-PRODUCTION
TESTED: Dec. 26, 2011 to Feb. 02, 2012
APPLICANT: Philips Consumer Lifestyle
STANDARDS: FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10-2009

The above equipment (Model: WUS-N18M) 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 :  , **DATE:** Mar. 13, 2012
(Elsie Hsu, Specialist)

APPROVED BY :  , **DATE:** Mar. 13, 2012
(May Chen, Deputy Manager)



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2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -10.52dB at 0.20469MHz.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.6dB at 2386.27MHz
15.247(d)	Conducted Out-Band Emission Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

2.1 MEASUREMENT UNCERTAINTY

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

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

Measurement	Value
Conducted emissions	2.45 dB
Radiated emissions (30MHz-1GHz)	3.89 dB
Radiated emissions (1GHz -18GHz)	2.19 dB
Radiated emissions (18GHz -40GHz)	2.56 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	WUS-N18M USB Wi-Fi module
MODEL NO.	WUS-N18M
FCC ID	BOUWUSN18M
POWER SUPPLY	DC 3.3V \pm 10% from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: Up to 11Mbps 802.11g: Up to 54Mbps 802.11n (20MHz, 800ns GI): Up to 65Mbps 802.11n (20MHz, 400ns GI): Up to 72.2Mbps 802.11n (40MHz, 800ns GI): Up to 135Mbps 802.11n (40MHz, 400ns GI): Up to 150.0Mbps
FREQUENCY OPERATING	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
MAXIMUM OUTPUT POWER	802.11b: 104.7mW 802.11g: 323.6mW 802.11n (20MHz): 309.0mW 802.11n (40MHz): 141.3mW
ANTENNA TYPE	Please see NOTE
DATA CABLE	NA
ASSOCIATED DEVICES	NA



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NOTE:

1. There is one antenna provided to this EUT, please refer to the following table:

Antenna type	Manufacture	Model name	Antenna Gain (dBi)	Connector type
Printed Antenna	Alpha	NA	0	NA

2. The EUT is 1 * 1 spatial SISO (1Tx & 1Rx) without beam forming function.
3. When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.
4. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



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3.2 DESCRIPTION OF TEST MODES

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		



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3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

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

POWER LINE CONDUCTED EMISSION TEST:

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

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

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 , XYZ axis 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)	AXIS
802.11g	1 to 11	6	OFDM	BPSK	6	Z

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, XYZ axis 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)	AXIS
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Z
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Z
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	Z
802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.5	Z



ANTENNA PORT CONDUCTED MEASUREMENT:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

CONDUCTED OUT-BAND EMISSION MEASUREMENT:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

※ TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
PLC	23deg. C, 54%RH,	120Vac, 60Hz	Kyle Huang
RE ³ 1G	23deg. C, 62%RH	120Vac, 60Hz	Nelson Teng
RE<1G	22deg. C, 70%RH	120Vac, 60Hz	Frank Liu
APCM	25deg. C, 60%RH	120Vac, 60Hz	Evan Huang
OB	25deg. C, 60%RH	120Vac, 60Hz	Evan Huang



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C. (15.247)

ANSI C63.10-2009

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



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3.4 DESCRIPTION OF SUPPORT UNITS

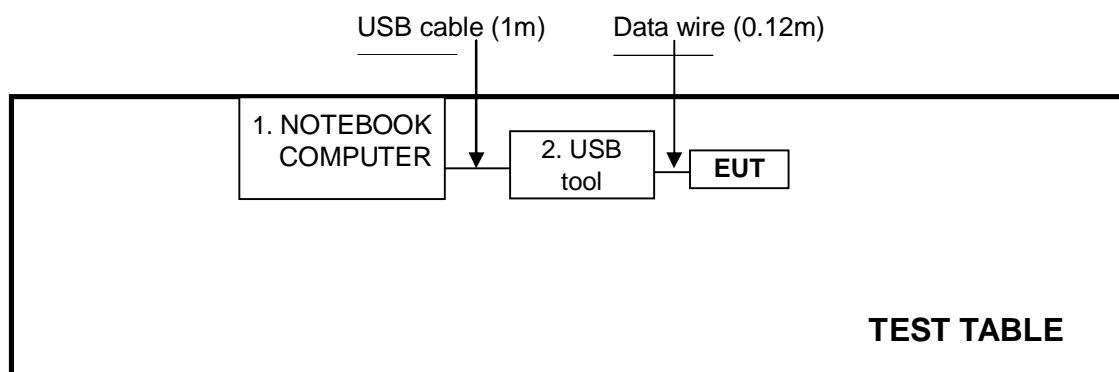
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP32LA	FSLB32S	FCC DoC
2	USB tool	Alphanetworks	NA	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB cable(1m)
2	Data wire (0.12m)

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST





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4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.1.2 TEST INSTRUMENTS

Test date: Dec. 26, 2011

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100287	Mar. 02, 2011	Mar. 01, 2012
Line-Impedance Stabilization Network (for EUT)	NSLK 8127	8127-523	Sep. 20, 2011	Sep. 19, 2012
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100072	June 10, 2011	June 09, 2012
RF Cable (JYEBAO)	5DFB	CONCAB-003	Aug. 05, 2011	Aug. 04, 2012
50 ohms Terminator	50	3	Nov. 02, 2011	Nov. 01, 2012
Software	BV ADT_Cond_V7.3.7	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. A.
3. The VCCI Con A Registration No. is C-817.



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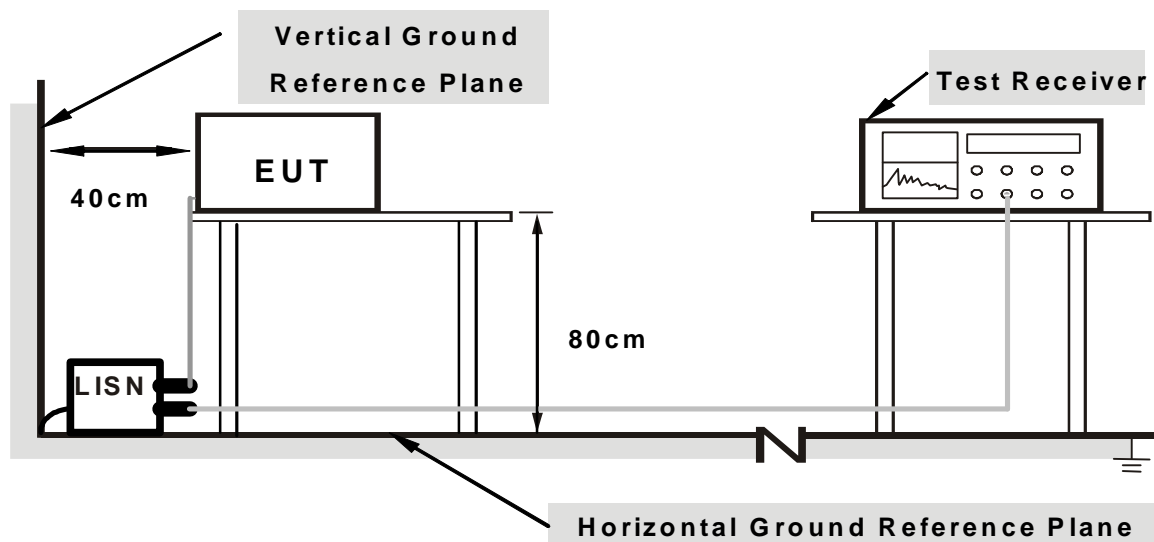
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

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

4.1.6 EUT OPERATING CONDITIONS

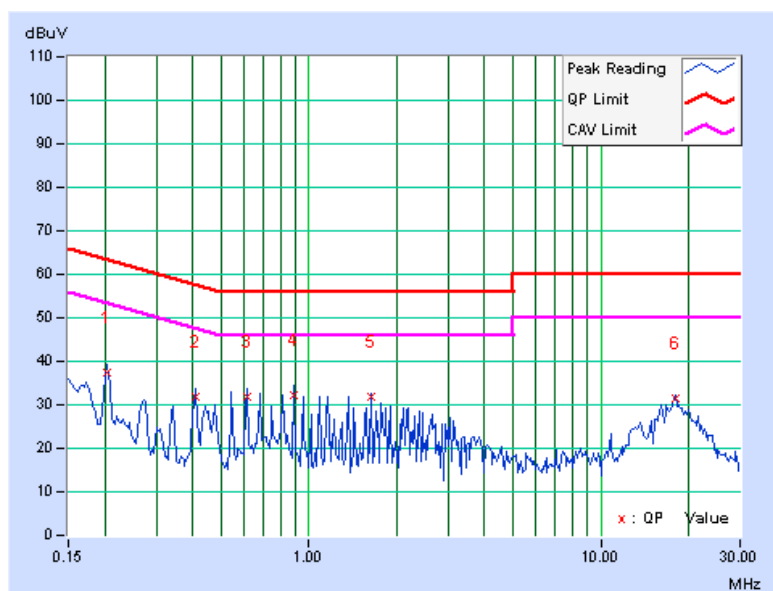
1. Turned on the power of all equipment.
2. Support unit 1 (NB) ran test program “RT3x7xQA.exe” to enable EUT under transmission/receiving condition continuously.

4.1.7 TEST RESULTS

PHASE	Line (L)	6dB BANDWIDTH	9 kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.20469	0.06	37.39	36.21	37.45	36.27	63.42
2	0.41069	0.07	31.68	29.01	31.75	29.08	57.63	47.63	-25.88	-18.55
3	0.61484	0.08	31.95	31.03	32.03	31.11	56.00	46.00	-23.97	-14.89
4	0.88625	0.09	32.16	31.64	32.25	31.73	56.00	46.00	-23.75	-14.27
5	1.63606	0.14	31.69	30.85	31.83	30.99	56.00	46.00	-24.17	-15.01
6	18.03516	0.60	30.92	29.93	31.52	30.53	60.00	50.00	-28.48	-19.47

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor + Reading Value.



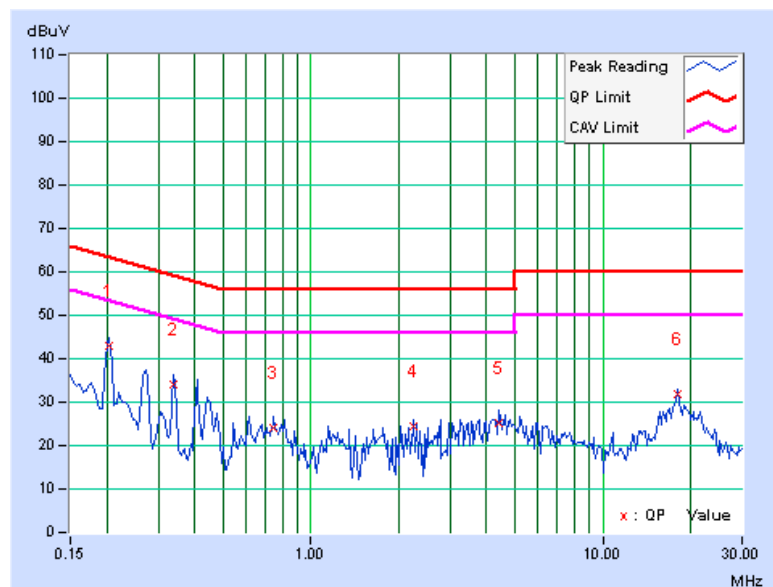


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PHASE	Neutral (N)	6dB BANDWIDTH	9 kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.20469	0.07	43.05	42.83	43.12	42.90	63.42	53.42	-20.30
2	0.33963	0.08	34.05	33.73	34.13	33.81	59.21	49.21	-25.09	-15.41
3	0.74766	0.09	23.85	18.44	23.94	18.53	56.00	46.00	-32.06	-27.47
4	2.24041	0.17	24.29	22.11	24.46	22.28	56.00	46.00	-31.54	-23.72
5	4.41200	0.23	24.92	19.71	25.15	19.94	56.00	46.00	-30.85	-26.06
6	18.03516	0.58	31.16	30.23	31.74	30.81	60.00	50.00	-28.26	-19.19

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor + Reading Value.





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4.2 RADIATED EMISSION AND BANDEGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power:

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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4.2.2 TEST INSTRUMENTS

For below 1GHz test (Test date: Feb. 02, 2012)

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Agilent Spectrum Analyzer	E4446A	MY48250254	July 12, 2011	July 11, 2012
Agilent Pre-Selector	N9039A	MY46520311	July 12, 2011	July 11, 2012
Agilent Signal Generator	N5181A	MY49060517	July 12, 2011	July 11, 2012
Mini-Circuits Pre-Amplifier	ZFL-1000VH2B	AMP-ZFL-03	Nov. 15, 2011	Nov. 14, 2012
Agilent Pre-Amplifier	8449B	3008A02578	July 04, 2011	July 03, 2012
SPACEK LABS	SLKKa-48-6	9K16	Nov. 15, 2011	Nov. 14, 2012
SCHWARZBECK Trilog Broadband Antenna	VULB 9168	9168-360	Apr. 14, 2011	Apr. 13, 2012
AISI Horn_Antenna	AIH.8018	0000320091110	Nov. 14, 2011	Nov. 13, 2012
SCHWARZBECK Horn_Antenna	BBHA 9170	9170-424	Oct. 07, 2011	Oct. 06, 2012
RF CABLE	NA	RF104-201 RF104-203 RF104-204	Dec. 26, 2011	Dec. 25, 2012
RF Cable	NA	CHGCAB_001	Oct. 07, 2011	Oct. 06, 2012
Software	ADT_Radiated_V8.7.05	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA
High Speed Peak Power Meter	ML2495A	0842014	Apr. 26, 2011	Apr. 25, 2012
Power Sensor	MA2411B	0738404	Apr. 26, 2011	Apr. 25, 2012

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

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

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

4. The FCC Site Registration No. is 966073.

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

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



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For above 1GHz test (Test date: Feb. 02, 2012)

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Agilent Spectrum Analyzer	E4446A	MY48250253	Aug. 29, 2011	Aug. 28, 2012
Agilent Pre-Selector	N9039A	MY46520310	Aug. 29, 2011	Aug. 28, 2012
Agilent Signal Generator	N5181A	MY49060347	July 25, 2011	July 24, 2012
Mini-Circuits Pre-Amplifier	ZFL-1000VH2B	AMP-ZFL-04	Nov. 15, 2011	Nov. 14, 2012
Agilent Pre-Amplifier	8449B	3008A02465	Feb. 28, 2011	Feb. 27, 2012
SPACEK LABS	SLKKa-48-6	9K16	Nov. 15, 2011	Nov. 14, 2012
SCHWARZBECK Trilog Broadband Antenna	VULB 9168	9168-361	Apr. 14, 2011	Apr. 13, 2012
AISI Horn_Antenna	AIH.8018	0000220091110	Nov. 23, 2011	Nov. 22, 2012
SCHWARZBECK Horn_Antenna	BBHA 9170	9170-424	Oct. 07, 2011	Oct. 06, 2012
RF CABLE	NA	RF104-205 RF104-207 RF104-202	Dec. 27, 2011	Dec. 26, 2012
RF Cable	NA	CHHCAB_001	Oct. 08, 2011	Oct. 07, 2012
Software	ADT_Radiated_V8.7.05	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
5. The CANADA Site Registration No. is IC 7450H-3.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

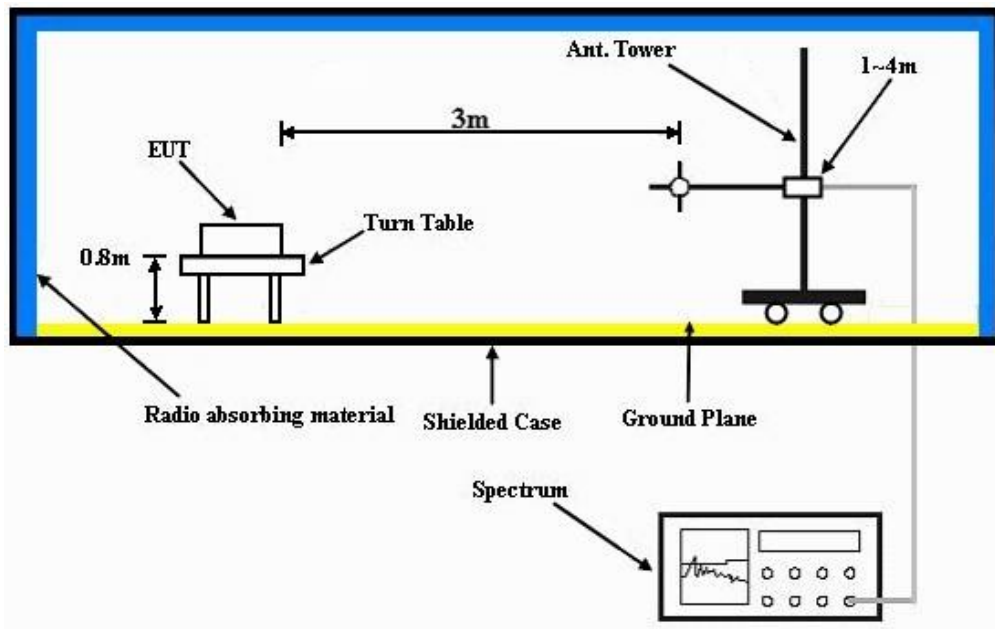
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

3. Turned on the power of all equipment.
4. Prepared other computer system support unit 1 (Notebook Computer) to act as communication partner and placed it outside of testing area.
5. The communication partner ran test program “RT3x7xQA.exe” to enable EUT under transmission/receiving condition continuously via one UTP cable.



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4.2.7 TEST RESULTS

Below 1GHz

802.11g OFDM MODULATION

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	120.12	35.4 QP	43.5	-8.1	1.75 H	288	22.81	12.59
2	138.24	37.6 QP	43.5	-5.9	2.00 H	263	23.55	14.09
3	162.28	37.7 QP	43.5	-5.8	1.50 H	304	23.27	14.47
4	216.04	40.9 QP	46.0	-5.2	1.50 H	252	28.83	12.02
5	840.01	36.6 QP	46.0	-9.4	1.50 H	282	10.08	26.49
6	959.97	33.6 QP	46.0	-12.4	1.25 H	68	5.70	27.86

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	37.58	26.2 QP	40.0	-13.9	1.00 V	0	12.43	13.72
2	161.57	33.8 QP	43.5	-9.7	1.00 V	95	19.32	14.52
3	302.49	39.9 QP	46.0	-6.1	1.50 V	199	24.50	15.39
4	359.93	40.1 QP	46.0	-5.9	1.75 V	360	23.25	16.89
5	599.97	41.3 QP	46.0	-4.7	1.50 V	157	18.74	22.58
6	848.42	38.0 QP	46.0	-8.0	1.50 V	150	11.41	26.63

- 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

802.11b DSSS MODULATION

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	2386.13	59.1 PK	74.0	-14.9	1.70 H	120	27.23	31.87
2	2386.13	51.1 AV	54.0	-2.9	1.70 H	120	19.23	31.87
3	*2412.00	108.2 PK			1.63 H	117	76.25	31.95
4	*2412.00	106.0 AV			1.63 H	117	74.05	31.95
5	4824.00	55.6 PK	74.0	-18.4	1.18 H	360	14.38	41.22
6	4824.00	52.6 AV	54.0	-1.4	1.18 H	360	11.34	41.22

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	2386.27	61.9 PK	74.0	-12.1	1.38 V	22	30.03	31.87
2	2386.27	53.4 AV	54.0	-0.6	1.38 V	22	21.53	31.87
3	*2412.00	106.2 PK			1.00 V	82	74.25	31.95
4	*2412.00	104.0 AV			1.00 V	82	72.05	31.95
5	4824.00	55.5 PK	74.0	-18.5	1.37 V	96	14.28	41.22
6	4824.00	51.7 AV	54.0	-2.3	1.37 V	96	10.48	41.22

- 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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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	2381.70	58.6 PK	74.0	-15.4	1.64 H	117	26.74	31.86
2	2381.70	47.1 AV	54.0	-6.9	1.64 H	117	15.24	31.86
3	*2437.00	109.6 PK			1.64 H	117	77.56	32.04
4	*2437.00	107.4 AV			1.64 H	117	75.36	32.04
5	2484.70	57.4 PK	74.0	-16.6	1.64 H	117	25.20	32.20
6	2484.70	46.7 AV	54.0	-7.3	1.64 H	117	14.50	32.20
7	4874.00	56.6 PK	74.0	-17.4	1.17 H	347	15.24	41.36
8	4874.00	53.0 AV	54.0	-1.0	1.17 H	347	11.64	41.36
9	7311.00	53.4 PK	74.0	-20.6	1.17 H	152	7.73	45.67
10	7311.00	43.2 AV	54.0	-10.8	1.17 H	152	-2.47	45.67

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	*2437.00	106.4 PK			1.06 V	8	74.36	32.04
2	*2437.00	104.2 AV			1.06 V	8	72.16	32.04
3	4874.00	56.3 PK	74.0	-17.7	1.10 V	189	14.94	41.36
4	4874.00	52.4 AV	54.0	-1.6	1.10 V	189	11.04	41.36
5	7311.00	52.8 PK	74.0	-21.2	1.30 V	83	7.13	45.67
6	7311.00	43.5 AV	54.0	-10.5	1.30 V	83	-2.17	45.67

- 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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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.8 PK			1.60 H	118	75.68	32.12
2	*2462.00	105.6 AV			1.60 H	118	73.48	32.12
3	2487.76	60.8 PK	74.0	-13.2	1.61 H	115	28.59	32.21
4	2487.76	52.0 AV	54.0	-2.0	1.61 H	115	19.79	32.21
5	4924.00	53.5 PK	74.0	-20.5	1.16 H	348	12.02	41.48
6	4924.00	49.6 AV	54.0	-4.4	1.16 H	348	8.10	41.48
7	7386.00	52.3 PK	74.0	-21.7	1.17 H	59	6.39	45.91
8	7386.00	42.2 AV	54.0	-11.8	1.17 H	59	-3.71	45.91

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.9 PK			1.33 V	18	72.78	32.12
2	*2462.00	102.6 AV			1.33 V	18	70.48	32.12
3	2487.70	61.3 PK	74.0	-12.7	1.33 V	18	29.09	32.21
4	2487.70	52.4 AV	54.0	-1.6	1.33 V	18	20.19	32.21
5	4924.00	53.7 PK	74.0	-20.3	1.50 V	98	12.22	41.48
6	4924.00	48.8 AV	54.0	-5.2	1.50 V	98	7.32	41.48
7	7386.00	54.7 PK	74.0	-19.3	1.18 V	91	8.79	45.91
8	7386.00	43.5 AV	54.0	-10.5	1.18 V	91	-2.41	45.91

- 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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802.11g OFDM MODULATION

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.2 PK	74.0	-4.8	1.60 H	119	37.32	31.88
2	2390.00	53.2 AV	54.0	-0.8	1.60 H	119	21.32	31.88
3	*2412.00	110.4 PK			1.61 H	119	78.45	31.95
4	*2412.00	100.1 AV			1.61 H	119	68.15	31.95
5	4824.00	49.6 PK	74.0	-24.4	1.47 H	127	8.38	41.22
6	4824.00	36.8 AV	54.0	-17.2	1.47 H	127	-4.42	41.22
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.4 PK	74.0	-6.6	1.09 V	7	35.52	31.88
2	2390.00	52.4 AV	54.0	-1.6	1.09 V	7	20.52	31.88
3	*2412.00	108.2 PK			1.37 V	15	76.25	31.95
4	*2412.00	98.2 AV			1.37 V	15	66.25	31.95
5	4824.00	50.1 PK	74.0	-23.9	1.48 V	113	8.88	41.22
6	4824.00	37.2 AV	54.0	-16.8	1.48 V	113	-4.02	41.22

- 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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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	2384.70	65.1 PK	74.0	-8.9	1.67 H	118	33.23	31.87
2	2384.70	52.6 AV	54.0	-1.4	1.67 H	118	20.73	31.87
3	*2437.00	115.9 PK			1.60 H	118	83.86	32.04
4	*2437.00	105.5 AV			1.60 H	118	73.46	32.04
5	2489.10	65.1 PK	74.0	-8.9	1.67 H	118	32.89	32.21
6	2489.10	51.1 AV	54.0	-2.9	1.67 H	118	18.89	32.21
7	4874.00	56.1 PK	74.0	-17.9	1.35 H	107	14.74	41.36
8	4874.00	42.3 AV	54.0	-11.7	1.35 H	107	0.94	41.36
9	7311.00	53.0 PK	74.0	-21.0	1.23 H	163	7.33	45.67
10	7311.00	43.1 AV	54.0	-10.9	1.23 H	163	-2.57	45.67

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	*2437.00	112.6 PK			1.31 V	24	80.56	32.04
2	*2437.00	102.3 AV			1.31 V	24	70.26	32.04
3	4874.00	57.2 PK	74.0	-16.8	1.33 V	94	15.84	41.36
4	4874.00	43.6 AV	54.0	-10.4	1.33 V	94	2.24	41.36
5	7311.00	53.1 PK	74.0	-20.9	1.25 V	92	7.43	45.67
6	7311.00	44.0 AV	54.0	-10.0	1.25 V	92	-1.67	45.67

- 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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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.7 PK			1.62 H	117	76.58	32.12
2	*2462.00	98.7 AV			1.62 H	117	66.58	32.12
3	2483.50	70.1 PK	74.0	-3.9	1.60 H	119	37.91	32.19
4	2483.50	52.8 AV	54.0	-1.2	1.60 H	119	20.61	32.19
5	4924.00	50.0 PK	74.0	-24.0	1.49 H	124	8.52	41.48
6	4924.00	37.1 AV	54.0	-16.9	1.49 H	124	-4.38	41.48
7	7386.00	52.2 PK	74.0	-21.8	1.13 H	75	6.29	45.91
8	7386.00	42.1 AV	54.0	-11.9	1.13 H	75	-3.81	45.91

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.0 PK			1.31 V	21	73.88	32.12
2	*2462.00	95.4 AV			1.31 V	21	63.28	32.12
3	2483.50	68.2 PK	74.0	-5.8	1.34 V	24	36.01	32.19
4	2483.50	51.2 AV	54.0	-2.8	1.34 V	24	19.01	32.19
5	4924.00	50.2 PK	74.0	-23.8	1.30 V	130	8.72	41.48
6	4924.00	37.2 AV	54.0	-16.8	1.30 V	130	-4.28	41.48
7	7386.00	55.2 PK	74.0	-18.8	1.19 V	94	9.29	45.91
8	7386.00	43.9 AV	54.0	-10.1	1.19 V	94	-2.01	45.91

- 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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802.11n (20MHz) OFDM MODULATION

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.3 PK	74.0	-3.7	1.72 H	117	38.42	31.88
2	2390.00	52.7 AV	54.0	-1.3	1.72 H	117	20.82	31.88
3	*2412.00	108.4 PK			1.62 H	117	76.45	31.95
4	*2412.00	98.3 AV			1.62 H	117	66.35	31.95
5	4824.00	49.6 PK	74.0	-24.4	1.45 H	121	8.38	41.22
6	4824.00	36.5 AV	54.0	-17.5	1.45 H	121	-4.72	41.22
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.4 PK	74.0	-6.6	1.35 V	29	35.52	31.88
2	2390.00	51.1 AV	54.0	-2.9	1.35 V	29	19.22	31.88
3	*2412.00	105.6 PK			1.37 V	29	73.65	31.95
4	*2412.00	95.8 AV			1.37 V	29	63.85	31.95
5	4824.00	50.7 PK	74.0	-23.3	1.44 V	109	9.48	41.22
6	4824.00	37.3 AV	54.0	-16.7	1.44 V	109	-3.92	41.22

- 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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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	2385.20	65.4 PK	74.0	-8.6	1.62 H	119	33.53	31.87
2	2385.20	53.2 AV	54.0	-0.8	1.62 H	119	21.33	31.87
3	*2437.00	113.7 PK			1.62 H	116	81.66	32.04
4	*2437.00	104.8 AV			1.62 H	116	72.76	32.04
5	2488.70	65.8 PK	74.0	-8.2	1.62 H	119	33.59	32.21
6	2488.70	52.5 AV	54.0	-1.5	1.62 H	119	20.29	32.21
7	4874.00	55.5 PK	74.0	-18.5	1.31 H	113	14.14	41.36
8	4874.00	41.9 AV	54.0	-12.1	1.31 H	113	0.54	41.36
9	7311.00	53.9 PK	74.0	-20.1	1.17 H	136	8.23	45.67
10	7311.00	43.6 AV	54.0	-10.4	1.17 H	136	-2.07	45.67

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	*2437.00	111.1 PK			1.33 V	22	79.06	32.04
2	*2437.00	101.4 AV			1.33 V	22	69.36	32.04
3	4874.00	56.9 PK	74.0	-17.1	1.36 V	102	15.54	41.36
4	4874.00	43.4 AV	54.0	-10.6	1.36 V	102	2.04	41.36
5	7311.00	52.6 PK	74.0	-21.4	1.28 V	93	6.93	45.67
6	7311.00	43.4 AV	54.0	-10.6	1.28 V	93	-2.27	45.67

- 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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CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.8 PK			1.62 H	116	74.68	32.12
2	*2462.00	97.2 AV			1.62 H	116	65.08	32.12
3	2483.50	70.3 PK	74.0	-3.7	1.59 H	119	38.11	32.19
4	2483.50	52.6 AV	54.0	-1.4	1.59 H	119	20.41	32.19
5	4924.00	49.2 PK	74.0	-24.8	1.39 H	121	7.72	41.48
6	4924.00	36.3 AV	54.0	-17.7	1.39 H	121	-5.18	41.48
7	7386.00	54.4 PK	74.0	-19.6	1.16 H	141	8.49	45.91
8	7386.00	43.0 AV	54.0	-11.0	1.16 H	141	-2.91	45.91

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.4 PK			1.33 V	21	72.28	32.12
2	*2462.00	94.7 AV			1.33 V	21	62.58	32.12
3	2483.50	68.6 PK	74.0	-5.4	1.31 V	18	36.41	32.19
4	2483.50	50.7 AV	54.0	-3.3	1.31 V	18	18.51	32.19
5	4924.00	51.1 PK	74.0	-22.9	1.42 V	96	9.62	41.48
6	4924.00	37.6 AV	54.0	-16.4	1.42 V	96	-3.88	41.48
7	7386.00	51.6 PK	74.0	-22.4	1.32 V	71	5.69	45.91
8	7386.00	42.9 AV	54.0	-11.1	1.32 V	71	-3.01	45.91

- 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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802.11n (40MHz) OFDM MODULATION

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2389.87	67.5 PK	74.0	-6.5	1.67 H	118	35.62	31.88
2	2389.87	52.7 AV	54.0	-1.3	1.67 H	118	20.82	31.88
3	*2422.00	102.3 PK			1.65 H	118	70.32	31.98
4	*2422.00	92.8 AV			1.65 H	118	60.82	31.98
5	4844.00	48.8 PK	74.0	-25.2	1.39 H	135	7.52	41.28
6	4844.00	36.1 AV	54.0	-17.9	1.39 H	135	-5.18	41.28
7	7266.00	51.5 PK	74.0	-22.5	1.19 H	124	5.95	45.55
8	7266.00	41.4 AV	54.0	-12.6	1.19 H	124	-4.15	45.55

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	2390.00	65.0 PK	74.0	-9.0	1.35 V	20	33.12	31.88
2	2390.00	50.0 AV	54.0	-4.0	1.35 V	20	18.12	31.88
3	*2422.00	99.6 PK			1.39 V	24	67.62	31.98
4	*2422.00	90.1 AV			1.39 V	24	58.12	31.98
5	4844.00	50.9 PK	74.0	-23.1	1.46 V	85	9.62	41.28
6	4844.00	37.6 AV	54.0	-16.4	1.46 V	85	-3.68	41.28
7	7266.00	54.1 PK	74.0	-19.9	1.16 V	103	8.55	45.55
8	7266.00	42.7 AV	54.0	-11.3	1.16 V	103	-2.85	45.55

- 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.



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.2 PK	74.0	-8.8	1.70 H	119	33.32	31.88
2	2390.00	51.9 AV	54.0	-2.1	1.70 H	119	20.02	31.88
3	*2437.00	106.0 PK			1.64 H	116	73.96	32.04
4	*2437.00	96.5 AV			1.64 H	116	64.46	32.04
5	2483.50	67.5 PK	74.0	-6.5	1.60 H	117	35.31	32.19
6	2483.50	53.3 AV	54.0	-0.7	1.60 H	117	21.11	32.19
7	4874.00	48.6 PK	74.0	-25.4	1.39 H	143	7.24	41.36
8	4874.00	35.9 AV	54.0	-18.1	1.39 H	143	-5.46	41.36
9	7311.00	52.9 PK	74.0	-21.1	1.23 H	137	7.23	45.67
10	7311.00	42.9 AV	54.0	-11.1	1.23 H	137	-2.77	45.67

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	*2437.00	104.2 PK			1.36 V	14	72.16	32.04
2	*2437.00	94.2 AV			1.36 V	14	62.16	32.04
3	4874.00	51.6 PK	74.0	-22.4	1.30 V	99	10.24	41.36
4	4874.00	38.4 AV	54.0	-15.6	1.30 V	99	-2.96	41.36
5	7311.00	54.8 PK	74.0	-19.2	1.21 V	55	9.13	45.67
6	7311.00	43.4 AV	54.0	-10.6	1.21 V	55	-2.27	45.67

- 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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CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	101.5 PK			1.63 H	117	69.41	32.09
2	*2452.00	92.1 AV			1.63 H	117	60.01	32.09
3	2483.50	69.5 PK	74.0	-4.5	1.59 H	116	37.31	32.19
4	2483.50	52.9 AV	54.0	-1.1	1.59 H	116	20.71	32.19
5	4904.00	49.7 PK	74.0	-24.3	1.39 H	108	8.26	41.44
6	4904.00	36.6 AV	54.0	-17.4	1.39 H	108	-4.84	41.44
7	7356.00	54.0 PK	74.0	-20.0	1.17 H	151	8.19	45.81
8	7356.00	43.2 AV	54.0	-10.8	1.17 H	151	-2.61	45.81

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	*2452.00	99.8 PK			1.34 V	17	67.71	32.09
2	*2452.00	89.6 AV			1.34 V	17	57.51	32.09
3	2483.50	67.6 PK	74.0	-6.4	1.34 V	22	35.41	32.19
4	2483.50	50.9 AV	54.0	-3.1	1.34 V	22	18.71	32.19
5	4904.00	51.1 PK	74.0	-22.9	1.48 V	98	9.66	41.44
6	4904.00	37.8 AV	54.0	-16.2	1.48 V	98	-3.64	41.44
7	7356.00	52.2 PK	74.0	-21.8	1.25 V	55	6.39	45.81
8	7356.00	43.1 AV	54.0	-10.9	1.25 V	55	-2.71	45.81

- 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.

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Test date: Feb. 01, 2012

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S Spectrum Analyzer	FSP 40	100060	May 11, 2011	May 10, 2012

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

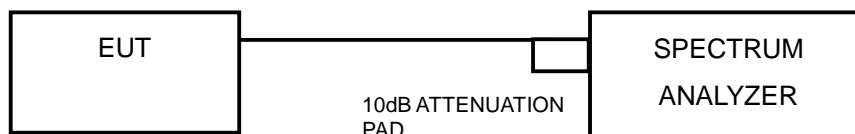
4.3.3 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = approximately 1% of the emission bandwidth
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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



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4.3.7 TEST RESULTS

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	11.97	0.5	PASS
6	2437	11.97	0.5	PASS
11	2462	11.94	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.51	0.5	PASS
6	2437	16.52	0.5	PASS
11	2462	16.50	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.59	0.5	PASS
6	2437	17.61	0.5	PASS
11	2462	17.64	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
3	2422	36.18	0.5	PASS
6	2437	36.13	0.5	PASS
9	2452	36.12	0.5	PASS

4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 902 –928 MHz, 2400–2483.5 MHz, and 5725 –5850 MHz bands: 1 Watt (30dBm)

4.4.2 INSTRUMENTS

Test date: Feb. 01, 2012

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Anritsu Power Meter	ML2495A	0824006	May 04, 2011	May 03, 2012
Pulse Power Sensor	MA2411B	0738172	May 03, 2011	May 02, 2012

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

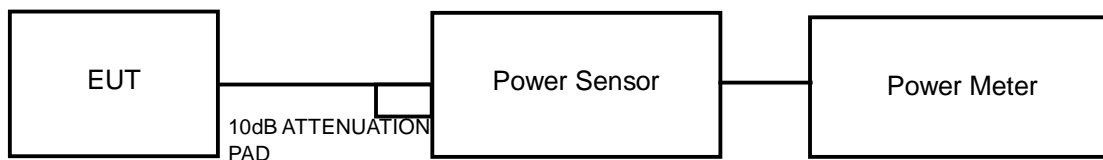
4.4.3 TEST PROCEDURES

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

802.11b DSSS MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	85.1	19.3	30	PASS
6	2437	104.7	20.2	30	PASS
11	2462	81.3	19.1	30	PASS

802.11g OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	151.4	21.8	30	PASS
6	2437	323.6	25.1	30	PASS
11	2462	138.0	21.4	30	PASS

802.11n (20MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	117.5	20.7	30	PASS
6	2437	309.0	24.9	30	PASS
11	2462	104.7	20.2	30	PASS

802.11n (40MHz) OFDM MODULATION:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
3	2422	26.9	14.3	30	PASS
6	2437	141.3	21.5	30	PASS
9	2452	57.5	17.6	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

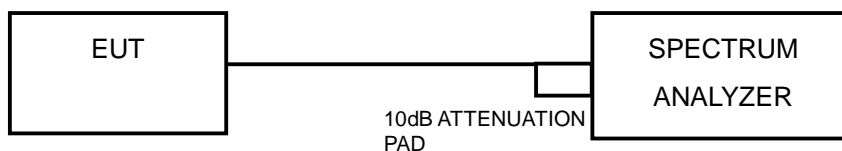
4.5.2 TEST PROCEDURE

1. Set the RBW = 100 kHz, VBW =300 kHz, Detector = peak.
2. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
3. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/100\text{kHz})$

4.5.3 DEVIATION FROM TEST STANDARD

No deviation

4.5.4 TEST SETUP



4.5.5 EUT OPERATING CONDITION

Same as Item 4.3.6.



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4.5.6 TEST RESULTS

802.11b DSSS MODULATION:

Channel	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	8.6	-6.6	8	PASS
6	2437	9.8	-5.4	8	PASS
11	2462	8.8	-6.5	8	PASS

802.11g OFDM MODULATION:

Channel	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	3.1	-12.1	8	PASS
6	2437	9.2	-6.1	8	PASS
11	2462	3.4	-11.8	8	PASS

802.11n (20MHZ) OFDM MODULATION:

Channel	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	2.6	-12.6	8	PASS
6	2437	9.1	-6.2	8	PASS
11	2462	1.6	-13.6	8	PASS

802.11n (40MHZ) OFDM MODULATION:

Channel	FREQUENCY (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
3	2422	-4.2	-19.4	8	PASS
6	2437	0.2	-15.0	8	PASS
9	2452	-3.8	-19.0	8	PASS

4.6 CONDUCTED OUT-BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT-BAND EMISSION MEASUREMENT

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

4.6.2 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

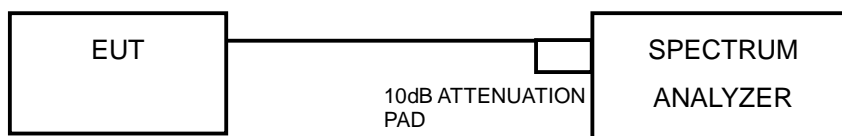
MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.6.3 DEVIATION FROM TEST STANDARD

No deviation

4.6.4 TEST SETUP



4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

The conducted emission test is performed on each TX port of operating mode without summing or adding $10\log(N)$ since the limit is relative emission limit. Only worst data of each operating mode is presented.

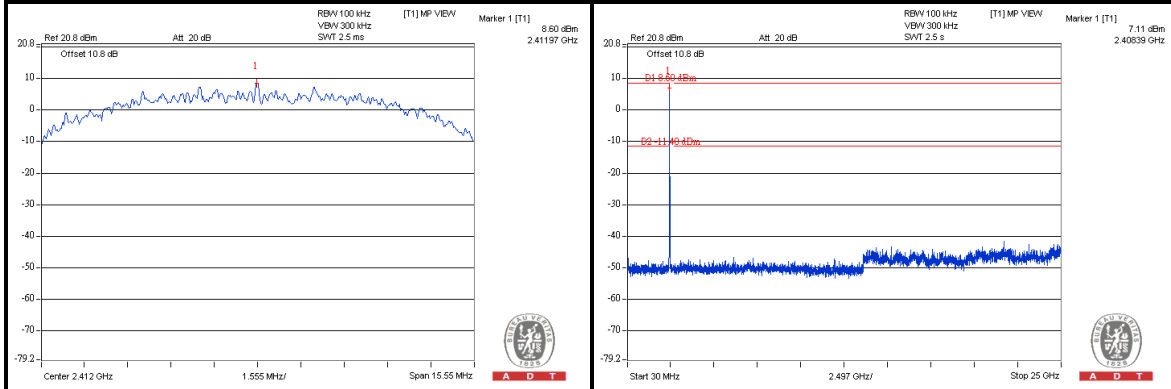
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).



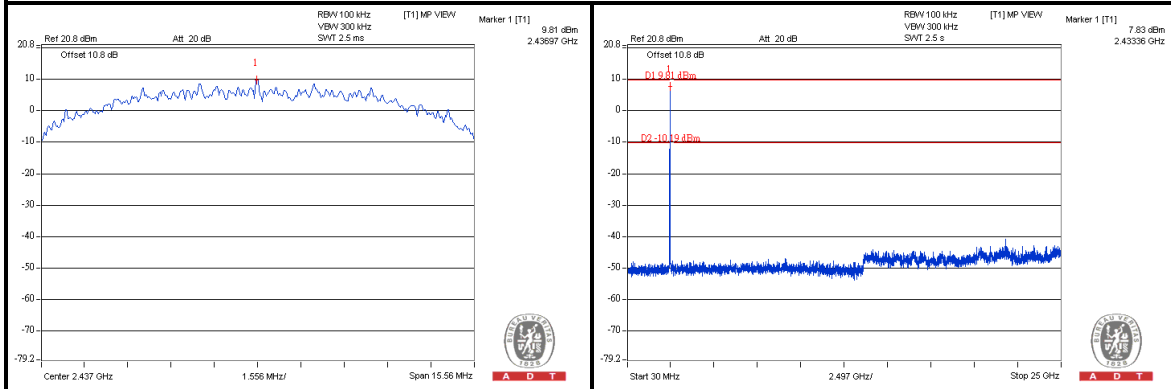
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802.11b

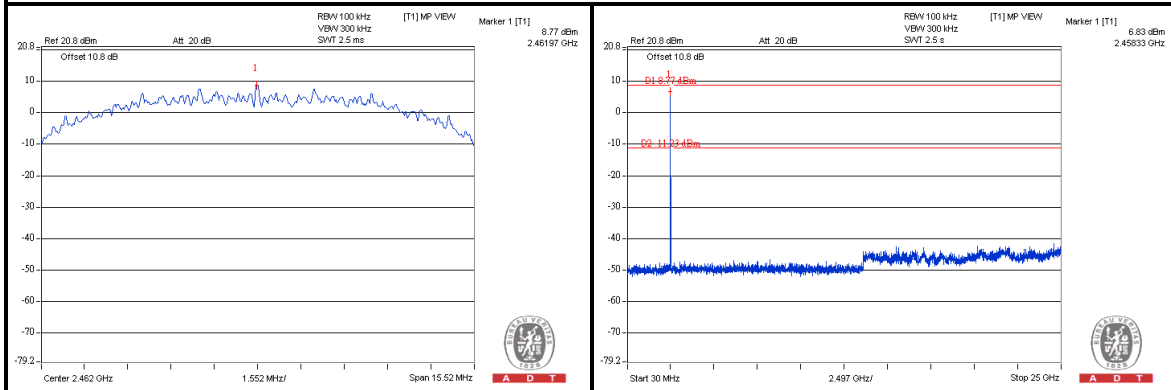
CH 1



CH 6



CH 11

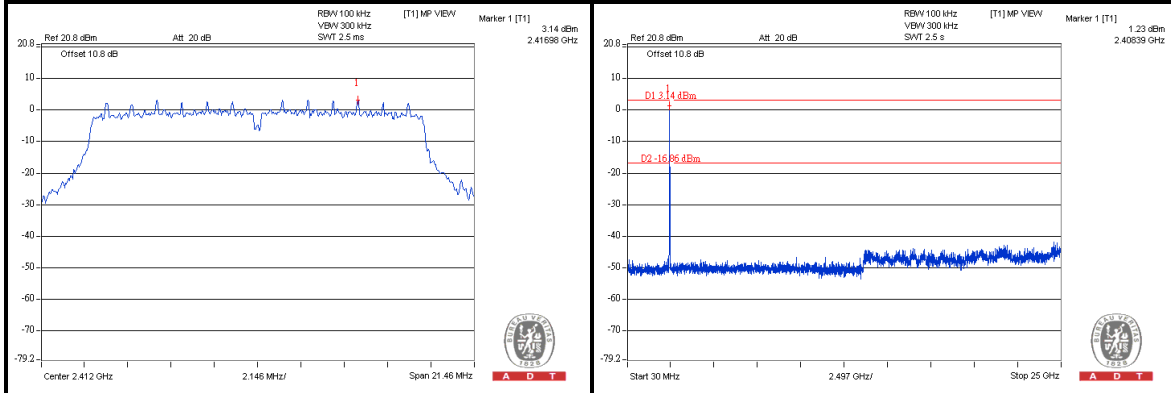




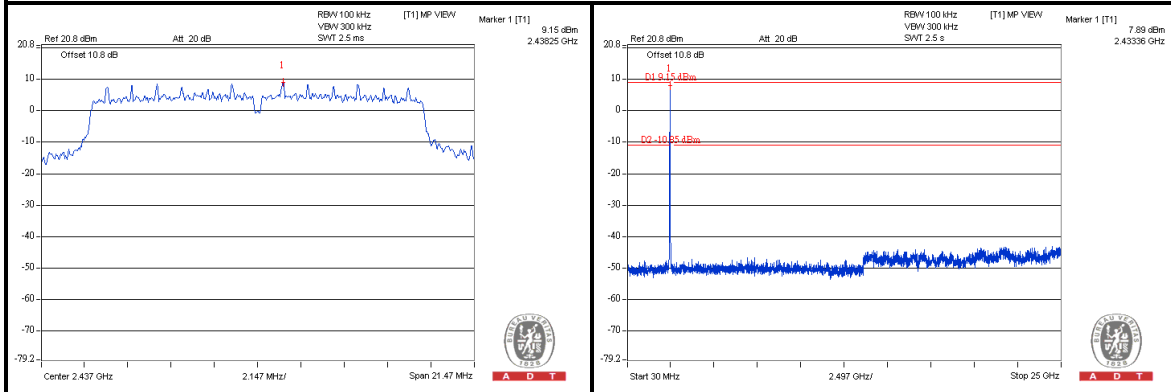
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802.11g

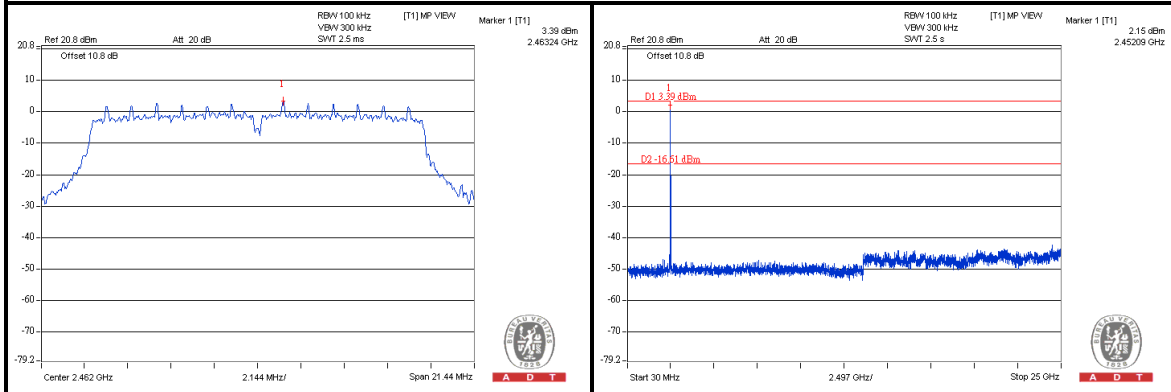
CH 1



CH 6



CH 11

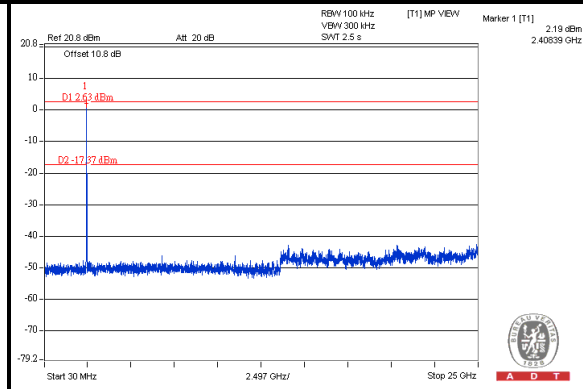
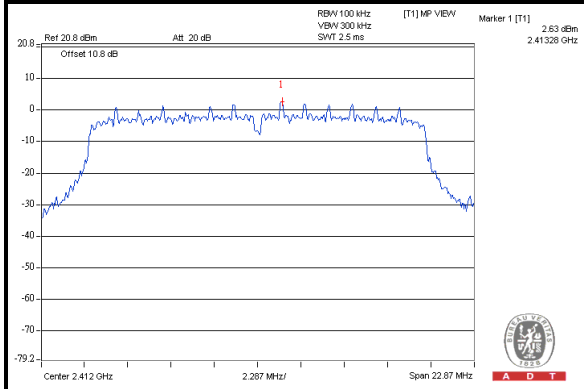




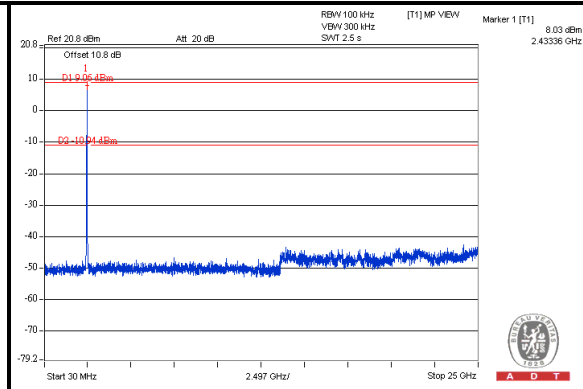
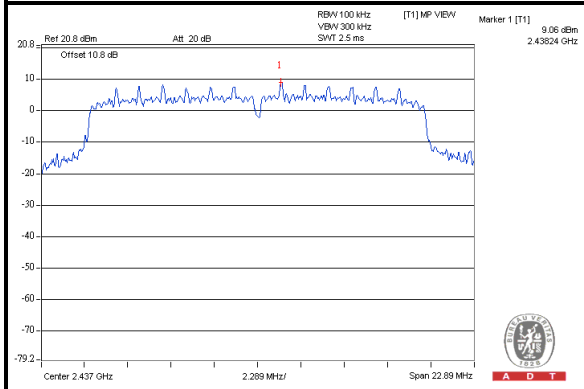
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802.11n (20MHz)

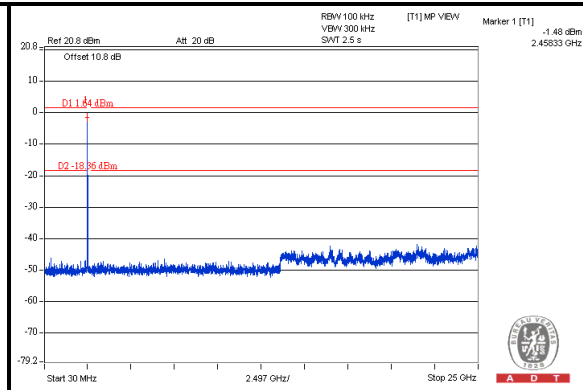
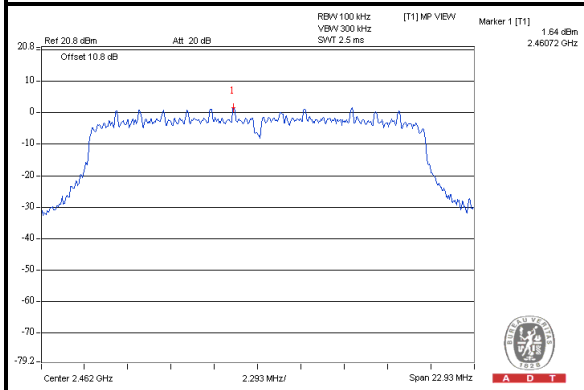
CH 1



CH 6



CH 11

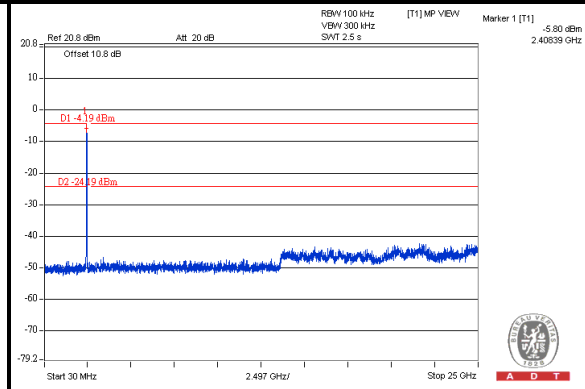
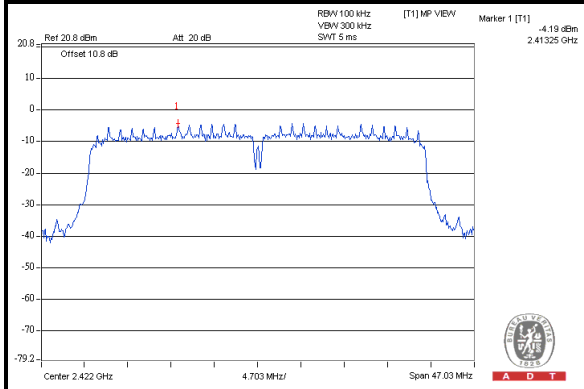




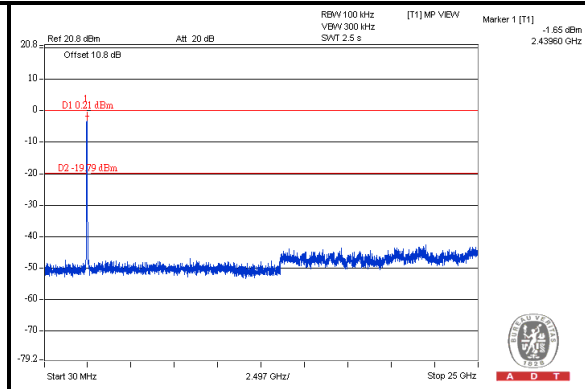
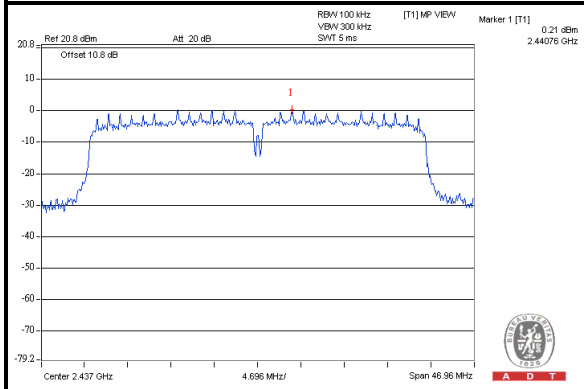
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802.11n (40MHz)

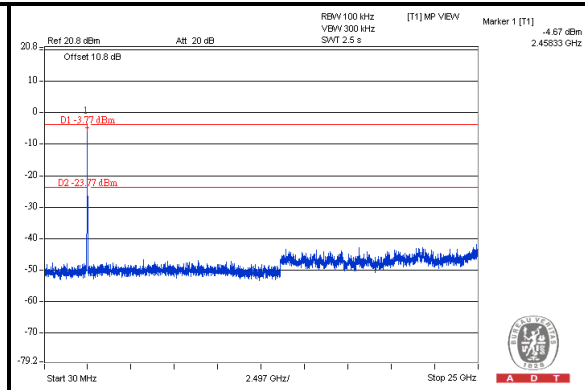
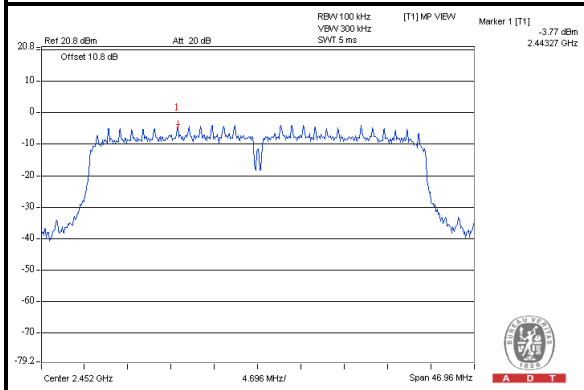
CH 3



CH 6



CH 9





5. INFORMATION ON THE TESTING LABORATORIES

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

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

www.adt.com.tw/index.5.phtml.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.adt.com.tw

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



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

No modifications were made to the EUT by the lab during the test.

--- END ---