FCC TEST REPORT (15.407)

REPORT NO.:	RF140410C13-1
MODEL NO.:	N450
FCC ID:	P4Q-N450W
RECEIVED:	Apr. 10, 2014
TESTED:	May 06, 2014 ~ May 10, 2014
ISSUED:	May 19, 2014

APPLICANT:	MITAC International Corp
ADDRESS:	Building B, No. 209, Sec. 1, Nan Gang Rd., Nan Gang Dist., Taipei 11568, Taiwan, R.O.C.

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C)
TEST LOCATION:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140410C13-1	Original release	May 19, 2014

1. CERTIFICATION

PRODUCT:	Tablet
MODEL NO.:	N450
BRAND:	Mio, Mitac
APPLICANT:	MITAC International Corp
TESTED:	May 06, 2014 ~ May 10, 2014
TEST SAMPLE:	Production Unit
STANDARDS:	**FCC Part 15, Subpart E (Section 15.407)**
	ANSI C63.10-2009

The above equipment (model: N450) 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 :** May 19, 2014

Ivonne Wu / Supervisor

APPROVED BY : _____ **, DATE :** May 19, 2014

Sam Chen / Senior Project Engineer

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -2.27dB at 0.66563MHz.
15.407(b/1/2/3)(b)(6)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.49dB at 5350.00MHz.
15.407(a/1/2)	Peak Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a/1/2)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	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:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Tablet
MODEL NO.	N450
POWER SUPPLY	12Vdc (adapter or host equipment) 3.7Vdc (Li-ion battery)
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to MCS7
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz & 5500 ~ 5700MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz)
OUTPUT POWER	29.31mW for 5180 ~ 5240MHz 40.74mW for 5260 ~ 5320MHz 34.59mW for 5500 ~ 5700MHz
ANTENNA TYPE	PIFA antenna with 2.74dBi gain (5180 ~ 5240MHz) PIFA antenna with 1.58dBi gain (5260 ~ 5320MHz) PIFA antenna with 2.64dBi gain (5500 ~ 5700MHz)
ANTENNA CONNECTOR	NA
DATA CABLE	Refer to Note as below
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

1. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	SPECIFICATION
Adapter 1	SINO-AMERICAN	SA142B-12U	I/P: 110-240Vac, 1.2A O/P: 12Vdc, 3A
Adapter 2	SINPRO	HPU63A-105	I/P: 100-240Vac, 1.62-0.72A O/P: 12Vdc, 5.25A
Battery 1	GETAC	BP-TKS-12/3360 SN	3.7Vdc, 6720mAh
Battery 2	Tian Yu	Bk-N450X-510KNX-01	3.7Vdc, 510mAh
USB Cable	EMINENCE	JU-57405040525	0.9m cable
BCR-1 (1D)	Opticon	MDL2001	--
BCR-2 (2D)	HoneyWell	5680	--
BCR-3 (2D)	Code	CR8012	--
CPU	TI	44705GPCBS	1.5G Hz
eMMC	N/A	N/A	16GB
LCD Panel	N/A	N/A	10.1 inch
Front Camera	Liteon	10P2SF130	--
Rear Camera	Liteon	10P2SA511	--
WLAN,BT Module	Jorjin	WG7833-B0& WX7833-B0	--

2. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

WLAN 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

WLAN 5500 ~ 5700MHz

8 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500MHz	116	5580MHz
104	5520MHz	132	5660MHz
108	5540MHz	136	5680MHz
112	5560MHz	140	5700MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510MHz	134	5670MHz
110	5550MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	Tablet w/o Bar Code Scanner + Adapter 1
B	√	√	√	-	Tablet w/ 1D Opticon Scanner + Adapter 1
C	√	√	√	-	Tablet w/ 2D HoneyWell Scanner + Adapter 1
D	√	√	√	-	Tablet w/ 2D Code Scanner + Adapter 1
E	-	√	√	-	Tablet w/o Bar Code Scanner + Adapter 2
F	-	√	√	-	Tablet w/ 1D Opticon Scanner + Adapter 2
G	-	√	√	-	Tablet w/ 2D HoneyWell Scanner + Adapter 2
H	-	√	√	-	Tablet w/ 2D Code Scanner + Adapter 2

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane** for 5180-5240MHz & 5260-5320MHz and **X-plane** for 5500-5700MHz.

RADIATED EMISSION TEST (ABOVE 1GHz):

☒ 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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 44, 48	OFDM	BPSK	6.0
	802.11n (20MHz)		36 to 48	36, 44, 48	OFDM	BPSK	MCS0
	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
A	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
B, C, D	802.11n (40MHz)	5180-5240	38 to 46	38	OFDM	BPSK	MCS0
	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	BPSK	MCS0
	802.11n (20MHz)	5500-5700	100 to 140	140	OFDM	BPSK	MCS0

RADIATED EMISSION TEST (BELOW 1GHz):

☒ 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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A ~ H	802.11n (40MHz)	5180-5240	38 to 46	38	OFDM	BPSK	MCS0
	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	BPSK	MCS0
	802.11n (20MHz)	5500-5700	100 to 140	140	OFDM	BPSK	MCS0

POWER LINE CONDUCTED EMISSION TEST:

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A ~ H	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	BPSK	MCS0

BANDEDGE 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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	BPSK	6.0
	802.11n (20MHz)		36 to 48	36, 48	OFDM	BPSK	MCS0
	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
A	802.11a	5260-5320	52 to 64	52, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 64	OFDM	BPSK	MCS0
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
A	802.11a	5500-5700	100 to 140	100, 140	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 140	100, 140	OFDM	BPSK	MCS0
	802.11n (40MHz)		102 to 134	102, 134	OFDM	BPSK	MCS0

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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 44, 48	OFDM	BPSK	6.0
	802.11n (20MHz)		36 to 48	36, 44, 48	OFDM	BPSK	MCS0
	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
A	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0

Test CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Peter Weng
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Peter Weng
PLC	25deg. C, 65%RH	120Vac, 60Hz	Peter Weng
APCM	25deg. C, 65%RH	120Vac, 60Hz	David Huang

3.3 DESCRIPTION OF SUPPORT UNITS

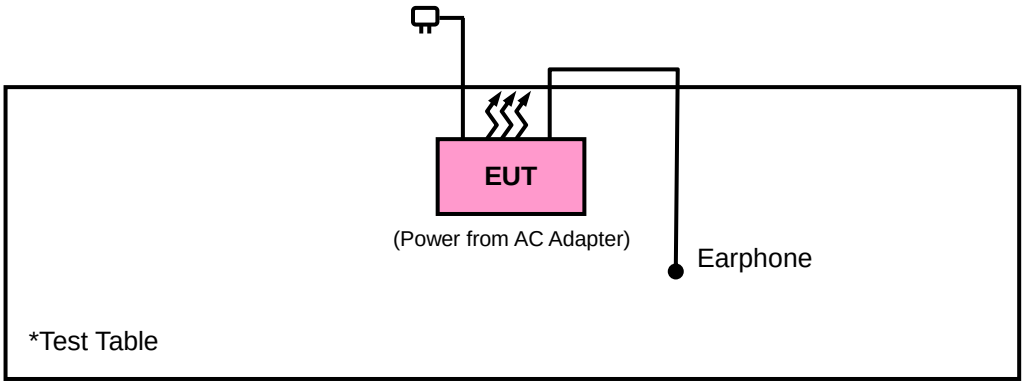
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Earphone	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

NOTE: 1. All power cords of the above support units are non shielded (1.8m).

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



3.4 DUTY CYCLE TEST SIGNAL

MODULATION TYPE: BPSK

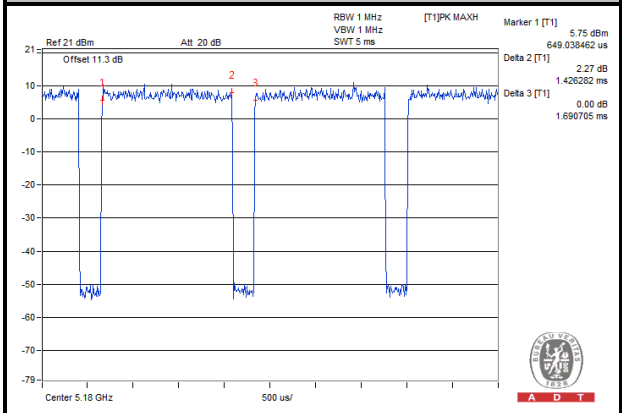
If duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 1.426/1.691 = 0.843, Duty factor = 10 * log(1/0.843) = 0.74

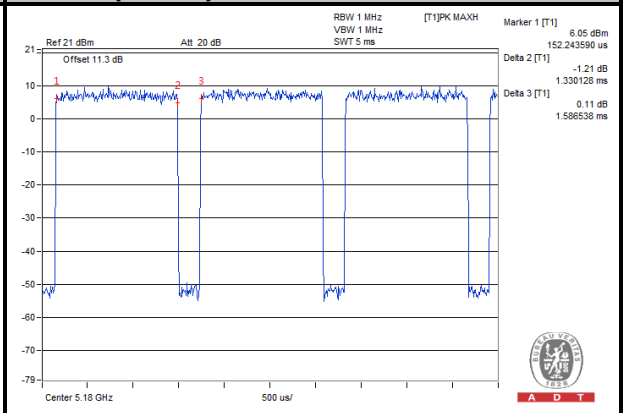
802.11n (20MHz): Duty cycle = 1.330/1.586 = 0.838, Duty factor = 10 * log(1/0.838) = 0.77

802.11n (40MHz): Duty cycle = 625.00/921.47 = 0.678, Duty factor = 10 * log(1/0.678) = 1.69

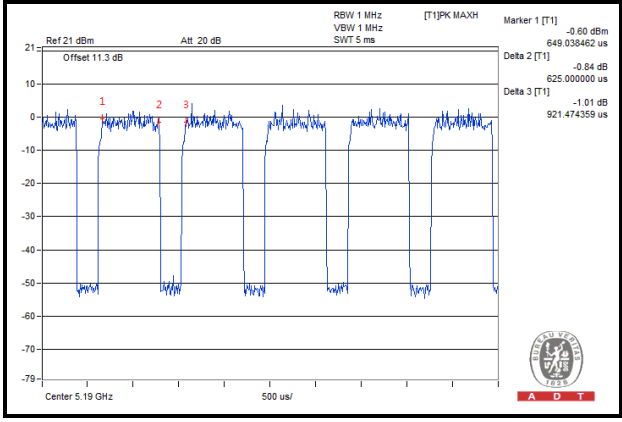
802.11a



802.11n (20MHz)



802.11n (40MHz)



MODULATION TYPE: QPSK

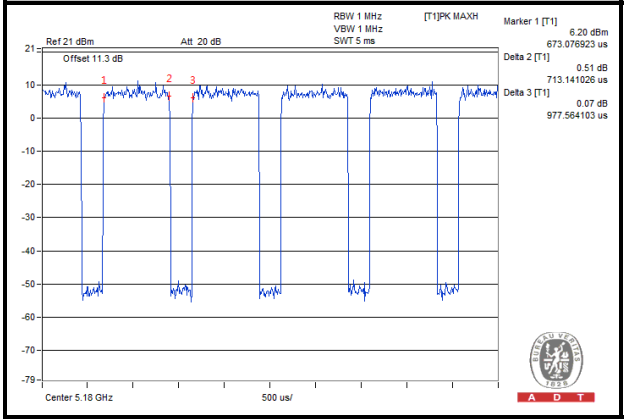
If duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 713.14/977.56 = 0.729, Duty factor = 10 * log(1/0.729) = 1.37

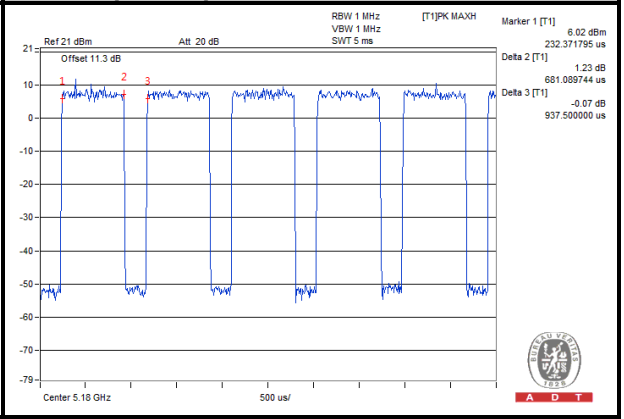
802.11n (20MHz): Duty cycle = 681.09/937.50 = 0.726, Duty factor = 10 * log(1/0.726) = 1.39

802.11n (40MHz): Duty cycle = 312.50/600.96 = 0.520, Duty factor = 10 * log(1/0.520) = 2.84

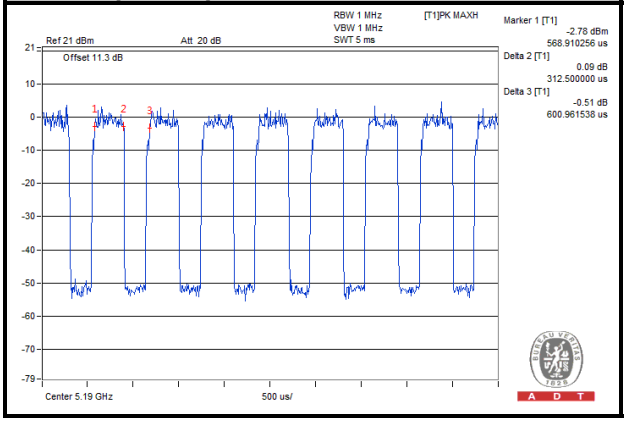
802.11a



802.11n (20MHz)



802.11n (40MHz)



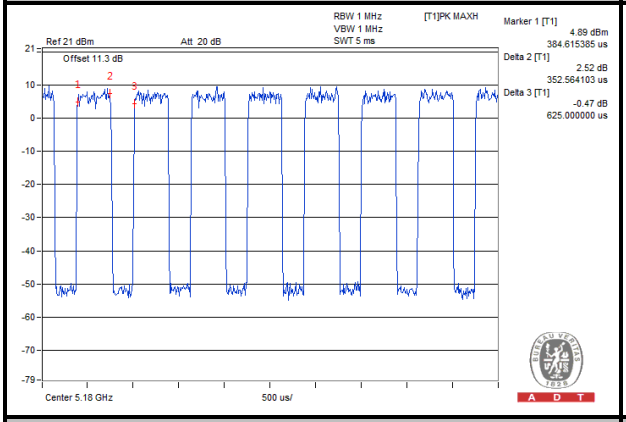
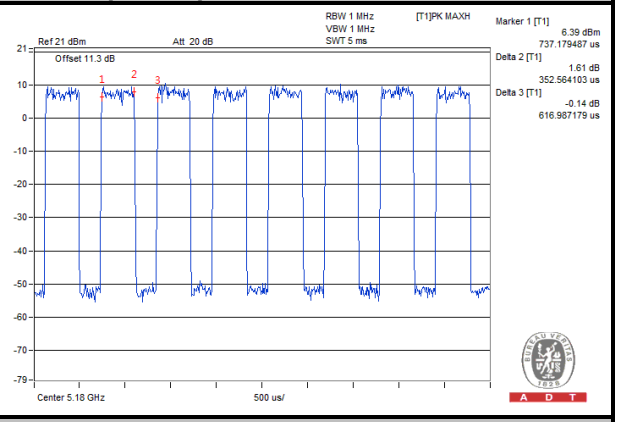
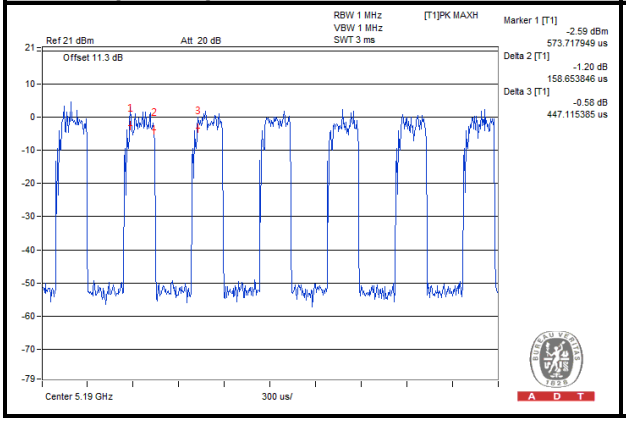
MODULATION TYPE: 16QAM

If duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 352.56/625.00 = 0.564, Duty factor = 10 * log(1/0.564) = 2.49

802.11n (20MHz): Duty cycle = 352.56/616.99 = 0.571, Duty factor = 10 * log(1/0.571) = 2.43

802.11n (40MHz): Duty cycle = 158.65/447.11 = 0.355, Duty factor = 10 * log(1/0.355) = 4.50

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	
	

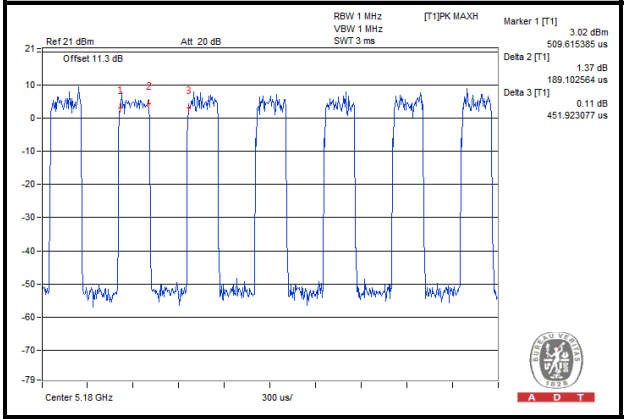
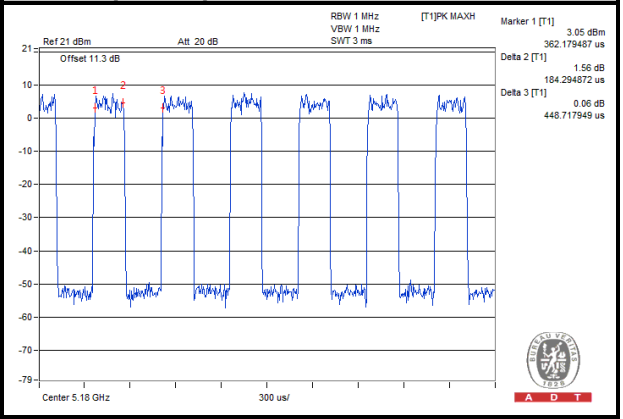
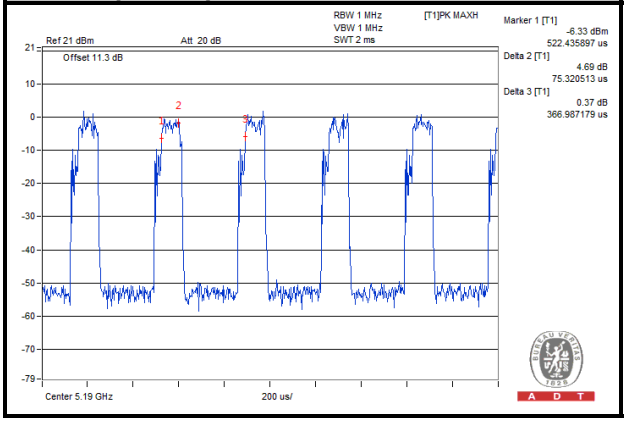
MODULATION TYPE: 64QAM

If duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 189.10/451.92 = 0.418, Duty factor = 10 * log(1/0.418) = 3.78

802.11n (20MHz): Duty cycle = 184.29/448.72 = 0.411, Duty factor = 10 * log(1/0.411) = 3.86

802.11n (40MHz): Duty cycle = 75.32/366.99 = 0.205, Duty factor = 10 * log(1/0.205) = 6.88

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	
	

3.5 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 E (15.407)
KDB 789033 D01 General UNII Test Procedures v01r03
ANSI C63.10-2009

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.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
	FIELD STRENGTH AT 3m (dBµV/m)	
	PK	AV
	74	54
	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)
√	PK	PK
	-27	68.3

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver AGILENT	N9038A	MY51210203	Jan. 17, 2014	Jan. 16, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27. 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Loop Antenna	HFH2-Z2	100070	Mar. 06, 2014	Mar. 05, 2016
Preamplifier EMCI	EMC 012645	980115	Dec. 26, 2013	Dec. 25, 2014
Preamplifier EMCI	EMC 184045	980116	Jan. 13, 2014	Jan. 12, 2015
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2013	Oct. 17, 2014
RF signal cable Worken	RG-213	NA	Nov. 07, 2013	Nov. 06, 2014
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Power Meter	ML2495A	1232002	Aug. 23, 2013	Aug. 22, 2014
Power Sensor	MA2411B	1207325	Aug. 23, 2013	Aug. 22, 2014

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 calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 10.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
5. The FCC Site Registration No. is 690701.
6. The IC Site Registration No. is IC 7450F-10.

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 3 meters semi-anechoic chamber. 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:

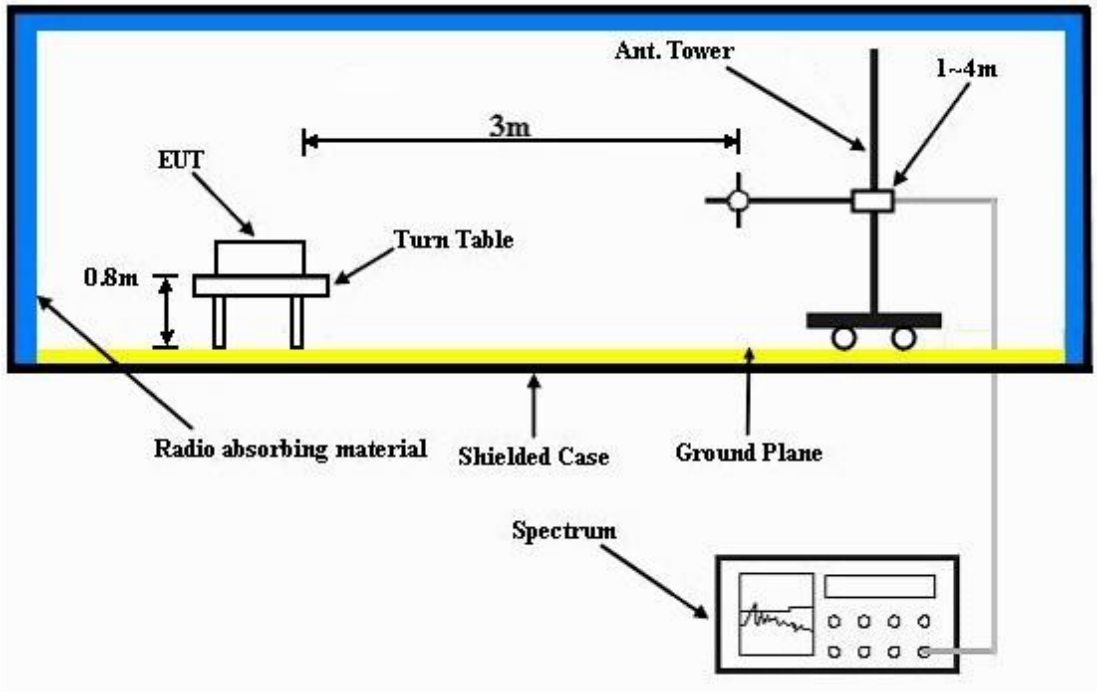
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

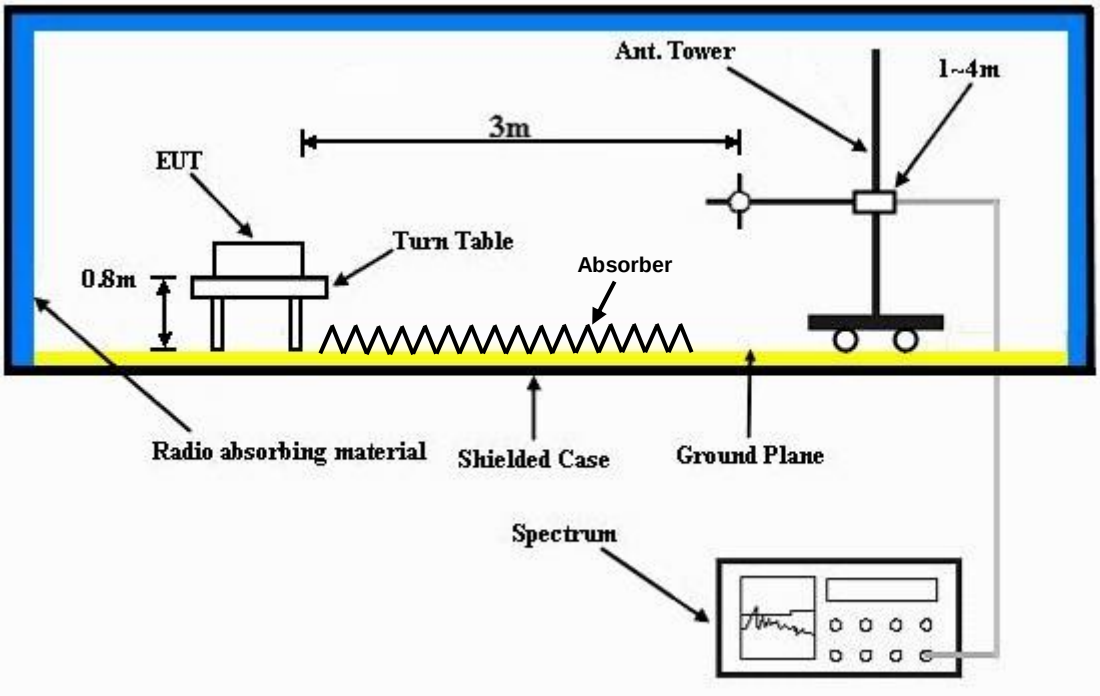
No deviation.

4.1.6 TEST SETUP

Frequency Range 30MHz ~ 1GHz



Frequency Range above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.7 EUT OPERATING CONDITIONS

a. Placed the EUT on a testing table.

b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.8 TEST RESULTS

ABOVE 1GHz WORST-CASE DATA

MODE A

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	44.82	45.53	54	-9.18	31.32	5.29	37.32	104	183	Average
5150	61.44	62.15	74	-12.56	31.32	5.29	37.32	104	183	Peak
5180	94.37	95.05			31.35	5.31	37.34	104	183	Average
5180	102.78	103.46			31.35	5.31	37.34	104	183	Peak
5418	37.62	37.85	54	-16.38	31.53	5.42	37.18	104	183	Average
5418	58.66	58.89	74	-15.34	31.53	5.42	37.18	104	183	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	47.94	48.65	54	-6.06	31.32	5.29	37.32	100	18	Average
5150	65.8	66.51	74	-8.2	31.32	5.29	37.32	100	18	Peak
5180	97.44	98.12			31.35	5.31	37.34	100	18	Average
5180	106.35	107.03			31.35	5.31	37.34	100	18	Peak
5440	37.49	37.63	54	-16.51	31.55	5.44	37.13	100	18	Average
5440	59.95	60.09	74	-14.05	31.55	5.44	37.13	100	18	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5180MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 44	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5044	37.63	38.39	54	-16.37	31.24	5.25	37.25	102	197	Average
5044	58.82	59.58	74	-15.18	31.24	5.25	37.25	102	197	Peak
5220	93.98	94.64			31.37	5.33	37.36	102	197	Average
5220	102.99	103.65			31.37	5.33	37.36	102	197	Peak
5364	37.66	37.95	54	-16.34	31.49	5.4	37.18	102	197	Average
5364	60.53	60.82	74	-13.47	31.49	5.4	37.18	102	197	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5120	39.86	40.59	54	-14.14	31.29	5.28	37.3	100	19	Average
5120	59.01	59.74	74	-14.99	31.29	5.28	37.3	100	19	Peak
5220	97.83	98.49			31.37	5.33	37.36	100	19	Average
5220	106.77	107.43			31.37	5.33	37.36	100	19	Peak
5372	37.55	37.84	54	-16.45	31.49	5.4	37.18	100	19	Average
5372	58.87	59.16	74	-15.13	31.49	5.4	37.18	100	19	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5220MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5034	37.91	38.68	54	-16.09	31.23	5.24	37.24	120	186	Average
5034	58.22	58.99	74	-15.78	31.23	5.24	37.24	120	186	Peak
5240	94.25	94.84			31.39	5.34	37.32	120	186	Average
5240	103.68	104.27			31.39	5.34	37.32	120	186	Peak
5360	37.58	37.89	54	-16.42	31.48	5.39	37.18	120	186	Average
5360	60.16	60.47	74	-13.84	31.48	5.39	37.18	120	186	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5006	39.44	40.24	54	-14.56	31.21	5.22	37.23	109	19	Average
5006	58.87	59.67	74	-15.13	31.21	5.22	37.23	109	19	Peak
5240	97.61	98.2			31.39	5.34	37.32	109	19	Average
5240	107.07	107.66			31.39	5.34	37.32	109	19	Peak
5400	37.6	37.85	54	-16.4	31.52	5.41	37.18	109	19	Average
5400	59.61	59.86	74	-14.39	31.52	5.41	37.18	109	19	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5240MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5148	37.74	38.45	54	-16.26	31.32	5.29	37.32	122	187	Average
5148	58.15	58.86	74	-15.85	31.32	5.29	37.32	122	187	Peak
5260	93.7	94.22			31.41	5.34	37.27	122	187	Average
5260	102.52	103.04			31.41	5.34	37.27	122	187	Peak
5362	37.99	38.29	54	-16.01	31.49	5.39	37.18	122	187	Average
5362	59.01	59.31	74	-14.99	31.49	5.39	37.18	122	187	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5120	38.51	39.24	54	-15.49	31.29	5.28	37.3	118	25	Average
5120	59.16	59.89	74	-14.84	31.29	5.28	37.3	118	25	Peak
5260	98.49	99.01			31.41	5.34	37.27	118	25	Average
5260	107.24	107.76			31.41	5.34	37.27	118	25	Peak
5380	38.8	39.07	54	-15.2	31.51	5.4	37.18	118	25	Average
5380	59.19	59.46	74	-14.81	31.51	5.4	37.18	118	25	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5260MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5042	36.99	37.75	54	-17.01	31.24	5.25	37.25	130	186	Average
5042	58.8	59.56	74	-15.2	31.24	5.25	37.25	130	186	Peak
5300	93.95	94.33			31.44	5.37	37.19	130	186	Average
5300	103.11	103.49			31.44	5.37	37.19	130	186	Peak
5460	37.98	38.06	54	-16.02	31.56	5.44	37.08	130	186	Average
5460	59.43	59.51	74	-14.57	31.56	5.44	37.08	130	186	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5090	37.02	37.74	54	-16.98	31.28	5.27	37.27	118	25	Average
5090	58.42	59.14	74	-15.58	31.28	5.27	37.27	118	25	Peak
5300	98.04	98.42			31.44	5.37	37.19	118	25	Average
5300	107.42	107.8			31.44	5.37	37.19	118	25	Peak
5350	38.94	39.25	54	-15.06	31.48	5.39	37.18	118	25	Average
5350	60.07	60.38	74	-13.93	31.48	5.39	37.18	118	25	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5300MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5086	36.81	37.55	54	-17.19	31.27	5.26	37.27	130	186	Average
5086	58.39	59.13	74	-15.61	31.27	5.26	37.27	130	186	Peak
5320	93.65	94.01			31.45	5.38	37.19	130	186	Average
5320	103.09	103.45			31.45	5.38	37.19	130	186	Peak
5350	40.95	41.26	54	-13.05	31.48	5.39	37.18	130	186	Average
5350	59.75	60.06	74	-14.25	31.48	5.39	37.18	130	186	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5126	36.77	37.48	54	-17.23	31.31	5.28	37.3	107	32	Average
5126	59.16	59.87	74	-14.84	31.31	5.28	37.3	107	32	Peak
5320	97.88	98.24			31.45	5.38	37.19	107	32	Average
5320	106.56	106.92			31.45	5.38	37.19	107	32	Peak
5350	45.54	45.85	54	-8.46	31.48	5.39	37.18	107	32	Average
5350	63.22	63.53	74	-10.78	31.48	5.39	37.18	107	32	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5320MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5374	39.47	39.76	54	-14.53	31.49	5.4	37.18	132	350	Average
5374	59.17	59.46	74	-14.83	31.49	5.4	37.18	132	350	Peak
5470	59.73	59.79	68.3	-8.57	31.57	5.45	37.08	132	350	Peak
5500	87.04	87.01			31.6	5.46	37.03	132	350	Average
5500	96.36	96.33			31.6	5.46	37.03	132	350	Peak
5725	57.26	57.14	68.3	-11.04	31.96	5.59	37.43	132	350	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5458	45.83	45.91	54	-8.17	31.56	5.44	37.08	112	125	Average
5458	61.73	61.81	74	-12.27	31.56	5.44	37.08	112	125	Peak
5470	64.65	64.71	68.3	-3.65	31.57	5.45	37.08	112	125	Peak
5500	93.87	93.84			31.6	5.46	37.03	112	125	Average
5500	102.83	102.8			31.6	5.46	37.03	112	125	Peak
5725	58.39	58.27	68.3	-9.91	31.96	5.59	37.43	112	125	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5500MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5404	37.66	37.91	54	-16.34	31.52	5.41	37.18	131	353	Average
5404	59.39	59.64	74	-14.61	31.52	5.41	37.18	131	353	Peak
5470	58.18	58.24	68.3	-10.12	31.57	5.45	37.08	131	353	Peak
5580	88.38	88.33			31.71	5.5	37.16	131	353	Average
5580	97.61	97.56			31.71	5.5	37.16	131	353	Peak
5725	58.32	58.2	68.3	-9.98	31.96	5.59	37.43	131	353	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5446	37.58	37.71	54	-16.42	31.56	5.44	37.13	141	124	Average
5446	59.19	59.32	74	-14.81	31.56	5.44	37.13	141	124	Peak
5470	57.27	57.33	68.3	-11.03	31.57	5.45	37.08	141	124	Peak
5580	94.53	94.48			31.71	5.5	37.16	141	124	Average
5580	103.61	103.56			31.71	5.5	37.16	141	124	Peak
5725	58.16	58.04	68.3	-10.14	31.96	5.59	37.43	141	124	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5580MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5456	37.56	37.64	54	-16.44	31.56	5.44	37.08	128	352	Average
5456	59.22	59.3	74	-14.78	31.56	5.44	37.08	128	352	Peak
5470	59.21	59.27	68.3	-9.09	31.57	5.45	37.08	128	352	Peak
5700	87.63	87.56			31.9	5.57	37.4	128	352	Average
5700	97.17	97.1			31.9	5.57	37.4	128	352	Peak
5725	63.96	63.84	68.3	-4.34	31.96	5.59	37.43	128	352	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5376	37.62	37.91	54	-16.38	31.49	5.4	37.18	147	112	Average
5376	59.34	59.63	74	-14.66	31.49	5.4	37.18	147	112	Peak
5470	57.86	57.92	68.3	-10.44	31.57	5.45	37.08	147	112	Peak
5700	93.47	93.4			31.9	5.57	37.4	147	112	Average
5700	102.95	102.88			31.9	5.57	37.4	147	112	Peak
5725	65.11	64.99	68.3	-3.19	31.96	5.59	37.43	147	112	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5700MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	45.59	46.3	54	-8.41	31.32	5.29	37.32	120	188	Average
5150	63.92	64.63	74	-10.08	31.32	5.29	37.32	120	188	Peak
5180	93.86	94.54			31.35	5.31	37.34	120	188	Average
5180	103.06	103.74			31.35	5.31	37.34	120	188	Peak
5354	37.6	37.91	54	-16.4	31.48	5.39	37.18	120	188	Average
5354	58.77	59.08	74	-15.23	31.48	5.39	37.18	120	188	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.1	49.81	54	-4.9	31.32	5.29	37.32	100	20	Average
5150	65.78	66.49	74	-8.22	31.32	5.29	37.32	100	20	Peak
5180	97.89	98.57			31.35	5.31	37.34	100	20	Average
5180	106.77	107.45			31.35	5.31	37.34	100	20	Peak
5352	37.57	37.88	54	-16.43	31.48	5.39	37.18	100	20	Average
5352	59.21	59.52	74	-14.79	31.48	5.39	37.18	100	20	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5180MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 44	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5114	37.92	38.63	54	-16.08	31.29	5.28	37.28	109	191	Average
5114	58.18	58.89	74	-15.82	31.29	5.28	37.28	109	191	Peak
5220	94.06	94.72			31.37	5.33	37.36	109	191	Average
5220	102.71	103.37			31.37	5.33	37.36	109	191	Peak
5410	37.66	37.91	54	-16.34	31.52	5.41	37.18	109	191	Average
5410	59.25	59.5	74	-14.75	31.52	5.41	37.18	109	191	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5138	39.87	40.57	54	-14.13	31.31	5.29	37.3	110	19	Average
5138	59.21	59.91	74	-14.79	31.31	5.29	37.3	110	19	Peak
5220	97.88	98.54			31.37	5.33	37.36	110	19	Average
5220	107.05	107.71			31.37	5.33	37.36	110	19	Peak
5396	37.57	37.82	54	-16.43	31.52	5.41	37.18	110	19	Average
5396	58.83	59.08	74	-15.17	31.52	5.41	37.18	110	19	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5220MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5104	38.04	38.77	54	-15.96	31.28	5.27	37.28	120	187	Average
5104	59.18	59.91	74	-14.82	31.28	5.27	37.28	120	187	Peak
5240	94.39	94.98			31.39	5.34	37.32	120	187	Average
5240	103.44	104.03			31.39	5.34	37.32	120	187	Peak
5444	37.66	37.8	54	-16.34	31.55	5.44	37.13	120	187	Average
5444	59.38	59.52	74	-14.62	31.55	5.44	37.13	120	187	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5084	39.31	40.05	54	-14.69	31.27	5.26	37.27	108	18	Average
5084	58.48	59.22	74	-15.52	31.27	5.26	37.27	108	18	Peak
5240	97.76	98.35			31.39	5.34	37.32	108	18	Average
5240	106.94	107.53			31.39	5.34	37.32	108	18	Peak
5446	37.63	37.76	54	-16.37	31.56	5.44	37.13	108	18	Average
5446	59.13	59.26	74	-14.87	31.56	5.44	37.13	108	18	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5240MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5094	37.68	38.41	54	-16.32	31.28	5.27	37.28	123	187	Average
5094	58.77	59.5	74	-15.23	31.28	5.27	37.28	123	187	Peak
5260	93.64	94.16			31.41	5.34	37.27	123	187	Average
5260	102.48	103			31.41	5.34	37.27	123	187	Peak
5384	38.15	38.42	54	-15.85	31.51	5.4	37.18	123	187	Average
5384	59.4	59.67	74	-14.6	31.51	5.4	37.18	123	187	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5144	39.15	39.86	54	-14.85	31.32	5.29	37.32	119	25	Average
5144	58.83	59.54	74	-15.17	31.32	5.29	37.32	119	25	Peak
5260	98.61	99.13			31.41	5.34	37.27	119	25	Average
5260	107.83	108.35			31.41	5.34	37.27	119	25	Peak
5450	38.43	38.51	54	-15.57	31.56	5.44	37.08	119	25	Average
5450	59.63	59.71	74	-14.37	31.56	5.44	37.08	119	25	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5260MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5072	37.16	37.9	54	-16.84	31.27	5.26	37.27	128	186	Average
5072	58.33	59.07	74	-15.67	31.27	5.26	37.27	128	186	Peak
5300	93.94	94.32			31.44	5.37	37.19	128	186	Average
5300	102.96	103.34			31.44	5.37	37.19	128	186	Peak
5376	38.14	38.43	54	-15.86	31.49	5.4	37.18	128	186	Average
5376	59.22	59.51	74	-14.78	31.49	5.4	37.18	128	186	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5062	36.91	37.66	54	-17.09	31.25	5.25	37.25	128	37	Average
5062	59.13	59.88	74	-14.87	31.25	5.25	37.25	128	37	Peak
5300	98.09	98.47			31.44	5.37	37.19	128	37	Average
5300	107.28	107.66			31.44	5.37	37.19	128	37	Peak
5382	39.63	39.9	54	-14.37	31.51	5.4	37.18	128	37	Average
5382	59.12	59.39	74	-14.88	31.51	5.4	37.18	128	37	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5300MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5036	36.75	37.52	54	-17.25	31.23	5.24	37.24	118	188	Average
5036	58.31	59.08	74	-15.69	31.23	5.24	37.24	118	188	Peak
5320	93.7	94.06			31.45	5.38	37.19	118	188	Average
5320	103	103.36			31.45	5.38	37.19	118	188	Peak
5350	42.37	42.68	54	-11.63	31.48	5.39	37.18	118	188	Average
5350	59.63	59.94	74	-14.37	31.48	5.39	37.18	118	188	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5032	36.74	37.51	54	-17.26	31.23	5.24	37.24	128	29	Average
5032	58.68	59.45	74	-15.32	31.23	5.24	37.24	128	29	Peak
5320	98.19	98.55			31.45	5.38	37.19	128	29	Average
5320	107.25	107.61			31.45	5.38	37.19	128	29	Peak
5350	46.07	46.38	54	-7.93	31.48	5.39	37.18	128	29	Average
5350	67.85	68.16	74	-6.15	31.48	5.39	37.18	128	29	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5320MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	40.8	40.88	54	-13.2	31.56	5.44	37.08	107	359	Average
5460	58.86	58.94	74	-15.14	31.56	5.44	37.08	107	359	Peak
5470	62.47	62.53	68.3	-5.83	31.57	5.45	37.08	107	359	Peak
5500	85.87	85.84			31.6	5.46	37.03	107	359	Average
5500	95.29	95.26			31.6	5.46	37.03	107	359	Peak
5725	59.91	59.79	68.3	-8.39	31.96	5.59	37.43	107	359	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	46.49	46.57	54	-7.51	31.56	5.44	37.08	143	123	Average
5460	60.85	60.93	74	-13.15	31.56	5.44	37.08	143	123	Peak
5470	64.76	64.82	68.3	-3.54	31.57	5.45	37.08	143	123	Peak
5500	93.71	93.68			31.6	5.46	37.03	143	123	Average
5500	103.17	103.14			31.6	5.46	37.03	143	123	Peak
5725	57.79	57.67	68.3	-10.51	31.96	5.59	37.43	143	123	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5500MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5362	37.36	37.66	54	-16.64	31.49	5.39	37.18	116	353	Average
5362	59.07	59.37	74	-14.93	31.49	5.39	37.18	116	353	Peak
5470	58	58.06	68.3	-10.3	31.57	5.45	37.08	116	353	Peak
5580	88.19	88.14			31.71	5.5	37.16	116	353	Average
5580	97.63	97.58			31.71	5.5	37.16	116	353	Peak
5725	56.74	56.62	68.3	-11.56	31.96	5.59	37.43	116	353	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5352	37.39	37.7	54	-16.61	31.48	5.39	37.18	140	124	Average
5352	59.42	59.73	74	-14.58	31.48	5.39	37.18	140	124	Peak
5470	57.29	57.35	68.3	-11.01	31.57	5.45	37.08	140	124	Peak
5580	93.85	93.8			31.71	5.5	37.16	140	124	Average
5580	103.27	103.22			31.71	5.5	37.16	140	124	Peak
5725	59.81	59.69	68.3	-8.49	31.96	5.59	37.43	140	124	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5580MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	37.48	37.56	54	-16.52	31.56	5.44	37.08	102	317	Average
5460	59.73	59.81	74	-14.27	31.56	5.44	37.08	102	317	Peak
5470	59.04	59.1	68.3	-9.26	31.57	5.45	37.08	102	317	Peak
5700	86.78	86.71			31.9	5.57	37.4	102	317	Average
5700	96.87	96.8			31.9	5.57	37.4	102	317	Peak
5725	63.73	63.61	68.3	-4.57	31.96	5.59	37.43	102	317	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5408	37.41	37.66	54	-16.59	31.52	5.41	37.18	100	14	Average
5408	59.34	59.59	74	-14.66	31.52	5.41	37.18	100	14	Peak
5470	57.39	57.45	68.3	-10.91	31.57	5.45	37.08	100	14	Peak
5700	92.88	92.81			31.9	5.57	37.4	100	14	Average
5700	102.53	102.46			31.9	5.57	37.4	100	14	Peak
5725	65.29	65.17	68.3	-3.01	31.96	5.59	37.43	100	14	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5700MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5146	49.02	49.73	54	-4.98	31.32	5.29	37.32	103	167	Average
5146	70.41	71.12	74	-3.59	31.32	5.29	37.32	103	167	Peak
5190	90.47	91.14			31.35	5.32	37.34	103	167	Average
5190	99.31	99.98			31.35	5.32	37.34	103	167	Peak
5426	37.9	38.08	54	-16.1	31.53	5.42	37.13	103	167	Average
5426	59.44	59.62	74	-14.56	31.53	5.42	37.13	103	167	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.81	52.52	54	-2.19	31.32	5.29	37.32	102	280	Average
5150	70.89	71.6	74	-3.11	31.32	5.29	37.32	102	280	Peak
5190	92.57	93.24			31.35	5.32	37.34	102	280	Average
5190	101.74	102.41			31.35	5.32	37.34	102	280	Peak
5412	37.97	38.21	54	-16.03	31.53	5.41	37.18	102	280	Average
5412	59.47	59.71	74	-14.53	31.53	5.41	37.18	102	280	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5190MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5080	39.94	40.68	54	-14.06	31.27	5.26	37.27	122	189	Average
5080	58.64	59.38	74	-15.36	31.27	5.26	37.27	122	189	Peak
5230	90.41	91.01			31.39	5.33	37.32	122	189	Average
5230	99.55	100.15			31.39	5.33	37.32	122	189	Peak
5374	37.92	38.21	54	-16.08	31.49	5.4	37.18	122	189	Average
5374	59.12	59.41	74	-14.88	31.49	5.4	37.18	122	189	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5148	42.17	42.88	54	-11.83	31.32	5.29	37.32	109	16	Average
5148	63.45	64.16	74	-10.55	31.32	5.29	37.32	109	16	Peak
5230	93.43	94.03			31.39	5.33	37.32	109	16	Average
5230	103.08	103.68			31.39	5.33	37.32	109	16	Peak
5372	37.89	38.18	54	-16.11	31.49	5.4	37.18	109	16	Average
5372	58.99	59.28	74	-15.01	31.49	5.4	37.18	109	16	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5230MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5038	37.32	38.07	54	-16.68	31.24	5.25	37.24	131	187	Average
5038	59.15	59.9	74	-14.85	31.24	5.25	37.24	131	187	Peak
5270	89.86	90.37			31.41	5.35	37.27	131	187	Average
5270	99.28	99.79			31.41	5.35	37.27	131	187	Peak
5416	38.48	38.71	54	-15.52	31.53	5.42	37.18	131	187	Average
5416	60.15	60.38	74	-13.85	31.53	5.42	37.18	131	187	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5130	37.17	37.88	54	-16.83	31.31	5.28	37.3	108	31	Average
5130	58.91	59.62	74	-15.09	31.31	5.28	37.3	108	31	Peak
5270	94.01	94.52			31.41	5.35	37.27	108	31	Average
5270	103.08	103.59			31.41	5.35	37.27	108	31	Peak
5360	40.06	40.37	54	-13.94	31.48	5.39	37.18	108	31	Average
5360	59.74	60.05	74	-14.26	31.48	5.39	37.18	108	31	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5270MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5098	37.68	38.41	54	-16.32	31.28	5.27	37.28	100	175	Average
5098	59	59.73	74	-15	31.28	5.27	37.28	100	175	Peak
5310	90.83	91.2			31.45	5.37	37.19	100	175	Average
5310	99.76	100.13			31.45	5.37	37.19	100	175	Peak
5350	49.36	49.67	54	-4.64	31.48	5.39	37.18	100	175	Average
5350	67.26	67.57	74	-6.74	31.48	5.39	37.18	100	175	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5036	37.88	38.65	54	-16.12	31.23	5.24	37.24	100	280	Average
5036	60.01	60.78	74	-13.99	31.23	5.24	37.24	100	280	Peak
5310	91.4	91.77			31.45	5.37	37.19	100	280	Average
5310	101.54	101.91			31.45	5.37	37.19	100	280	Peak
5350	47.16	47.47	54	-6.84	31.48	5.39	37.18	100	280	Average
5350	63.48	63.79	74	-10.52	31.48	5.39	37.18	100	280	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5310MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	40.56	40.64	54	-13.44	31.56	5.44	37.08	129	360	Average
5460	59.59	59.67	74	-14.41	31.56	5.44	37.08	129	360	Peak
5470	59.74	59.8	68.3	-8.56	31.57	5.45	37.08	129	360	Peak
5510	80.55	80.55			31.6	5.46	37.06	129	360	Average
5510	89.84	89.84			31.6	5.46	37.06	129	360	Peak
5725	59.85	59.73	68.3	-8.45	31.96	5.59	37.43	129	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	47.56	47.64	54	-6.44	31.56	5.44	37.08	142	122	Average
5460	65.05	65.13	74	-8.95	31.56	5.44	37.08	142	122	Peak
5470	65.23	65.29	68.3	-3.07	31.57	5.45	37.08	142	122	Peak
5510	88.44	88.44			31.6	5.46	37.06	142	122	Average
5510	97.9	97.9			31.6	5.46	37.06	142	122	Peak
5725	57.93	57.81	68.3	-10.37	31.96	5.59	37.43	142	122	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5510MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5354	37.99	38.3	54	-16.01	31.48	5.39	37.18	130	350	Average
5354	59.82	60.13	74	-14.18	31.48	5.39	37.18	130	350	Peak
5470	57.73	57.79	68.3	-10.57	31.57	5.45	37.08	130	350	Peak
5550	83.55	83.47			31.68	5.49	37.09	130	350	Average
5550	92.76	92.68			31.68	5.49	37.09	130	350	Peak
5725	59.32	59.2	68.3	-8.98	31.96	5.59	37.43	130	350	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5352	40.65	40.96	54	-13.35	31.48	5.39	37.18	154	123	Average
5352	59.95	60.26	74	-14.05	31.48	5.39	37.18	154	123	Peak
5470	59.31	59.37	68.3	-8.99	31.57	5.45	37.08	154	123	Peak
5550	89.4	89.32			31.68	5.49	37.09	154	123	Average
5550	98.68	98.6			31.68	5.49	37.09	154	123	Peak
5725	57.93	57.81	68.3	-10.37	31.96	5.59	37.43	154	123	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5550MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5370	37.76	38.05	54	-16.24	31.49	5.4	37.18	114	354	Average
5370	58.99	59.28	74	-15.01	31.49	5.4	37.18	114	354	Peak
5470	57.77	57.83	68.3	-10.53	31.57	5.45	37.08	114	354	Peak
5670	82.57	82.47			31.88	5.56	37.34	114	354	Average
5670	91.99	91.89			31.88	5.56	37.34	114	354	Peak
5725	59.19	59.07	68.3	-9.11	31.96	5.59	37.43	114	354	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5356	38.04	38.35	54	-15.96	31.48	5.39	37.18	146	111	Average
5356	59.18	59.49	74	-14.82	31.48	5.39	37.18	146	111	Peak
5470	57.2	57.26	68.3	-11.1	31.57	5.45	37.08	146	111	Peak
5670	88.93	88.83			31.88	5.56	37.34	146	111	Average
5670	97.67	97.57			31.88	5.56	37.34	146	111	Peak
5725	60.94	60.82	68.3	-7.36	31.96	5.59	37.43	146	111	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5670MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

MODE B

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5146	49.64	50.35	54	-4.36	31.32	5.29	37.32	100	305	Average
5146	66.4	67.11	74	-7.6	31.32	5.29	37.32	100	305	Peak
5190	90.01	90.68			31.35	5.32	37.34	100	305	Average
5190	99.13	99.8			31.35	5.32	37.34	100	305	Peak
5374	38.2	38.49	54	-15.8	31.49	5.4	37.18	100	305	Average
5374	59.73	60.02	74	-14.27	31.49	5.4	37.18	100	305	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.91	50.62	54	-4.09	31.32	5.29	37.32	119	189	Average
5150	68.84	69.55	74	-5.16	31.32	5.29	37.32	119	189	Peak
5190	91.95	92.62			31.35	5.32	37.34	119	189	Average
5190	101.33	102			31.35	5.32	37.34	119	189	Peak
5434	38.19	38.35	54	-15.81	31.55	5.42	37.13	119	189	Average
5434	61.39	61.55	74	-12.61	31.55	5.42	37.13	119	189	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5190MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5140	37.91	38.6	54	-16.09	31.32	5.29	37.3	100	74	Average
5140	59.79	60.48	74	-14.21	31.32	5.29	37.3	100	74	Peak
5310	92.22	92.59			31.45	5.37	37.19	100	74	Average
5310	101.47	101.84			31.45	5.37	37.19	100	74	Peak
5350	50.13	50.44	54	-3.87	31.48	5.39	37.18	100	74	Average
5350	67.15	67.46	74	-6.85	31.48	5.39	37.18	100	74	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5094	37.87	38.6	54	-16.13	31.28	5.27	37.28	108	32	Average
5094	58.81	59.54	74	-15.19	31.28	5.27	37.28	108	32	Peak
5310	93.43	93.8			31.45	5.37	37.19	108	32	Average
5310	102.3	102.67			31.45	5.37	37.19	108	32	Peak
5350	51.87	52.18	54	-2.13	31.48	5.39	37.18	108	32	Average
5350	68.62	68.93	74	-5.38	31.48	5.39	37.18	108	32	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5310MHz: Fundamental frequency.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5448	37.74	37.87	54	-16.26	31.56	5.44	37.13	102	212	Average
5448	58.96	59.09	74	-15.04	31.56	5.44	37.13	102	212	Peak
5470	58.2	58.26	68.3	-10.1	31.57	5.45	37.08	102	212	Peak
5700	93.62	93.55			31.9	5.57	37.4	102	212	Average
5700	103.02	102.95			31.9	5.57	37.4	102	212	Peak
5725	63.33	63.21	68.3	-4.97	31.96	5.59	37.43	102	212	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5356	37.6	37.91	54	-16.4	31.48	5.39	37.18	100	38	Average
5356	59.6	59.91	74	-14.4	31.48	5.39	37.18	100	38	Peak
5470	58.77	58.83	68.3	-9.53	31.57	5.45	37.08	100	38	Peak
5700	95.11	95.04			31.9	5.57	37.4	100	38	Average
5700	104.15	104.08			31.9	5.57	37.4	100	38	Peak
5725	64.86	64.74	68.3	-3.44	31.96	5.59	37.43	100	38	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5700MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

MODE C

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.64	50.35	54	-4.36	31.32	5.29	37.32	142	153	Average
5150	66.45	67.16	74	-7.55	31.32	5.29	37.32	142	153	Peak
5190	90.24	90.91			31.35	5.32	37.34	142	153	Average
5190	99.41	100.08			31.35	5.32	37.34	142	153	Peak
5432	38.12	38.28	54	-15.88	31.55	5.42	37.13	142	153	Average
5432	59.74	59.9	74	-14.26	31.55	5.42	37.13	142	153	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.69	52.4	54	-2.31	31.32	5.29	37.32	100	29	Average
5150	68.34	69.05	74	-5.66	31.32	5.29	37.32	100	29	Peak
5192	91.87	92.53			31.36	5.32	37.34	100	29	Average
5192	100.93	101.59			31.36	5.32	37.34	100	29	Peak
5350	38.1	38.41	54	-15.9	31.48	5.39	37.18	100	29	Average
5350	60.06	60.37	74	-13.94	31.48	5.39	37.18	100	29	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5190MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5032	37.57	38.34	54	-16.43	31.23	5.24	37.24	100	168	Average
5032	59.63	60.4	74	-14.37	31.23	5.24	37.24	100	168	Peak
5310	92.8	93.17			31.45	5.37	37.19	100	168	Average
5310	102.12	102.49			31.45	5.37	37.19	100	168	Peak
5350	50.47	50.78	54	-3.53	31.48	5.39	37.18	100	168	Average
5350	69.98	70.29	74	-4.02	31.48	5.39	37.18	100	168	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5086	37.85	38.59	54	-16.15	31.27	5.26	37.27	100	271	Average
5086	59.3	60.04	74	-14.7	31.27	5.26	37.27	100	271	Peak
5310	90.05	90.42			31.45	5.37	37.19	100	271	Average
5310	99.25	99.62			31.45	5.37	37.19	100	271	Peak
5350	46.72	47.03	54	-7.28	31.48	5.39	37.18	100	271	Average
5350	64.9	65.21	74	-9.1	31.48	5.39	37.18	100	271	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5310MHz: Fundamental frequency.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5374	37.71	38	54	-16.29	31.49	5.4	37.18	121	83	Average
5374	58.99	59.28	74	-15.01	31.49	5.4	37.18	121	83	Peak
5470	58.09	58.15	68.3	-10.21	31.57	5.45	37.08	121	83	Peak
5700	88.58	88.51			31.9	5.57	37.4	121	83	Average
5700	98.12	98.05			31.9	5.57	37.4	121	83	Peak
5725	63.47	63.35	68.3	-4.83	31.96	5.59	37.43	121	83	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5394	37.72	37.98	54	-16.28	31.51	5.41	37.18	100	8	Average
5394	59.14	59.4	74	-14.86	31.51	5.41	37.18	100	8	Peak
5470	58.09	58.15	68.3	-10.21	31.57	5.45	37.08	100	8	Peak
5700	92.35	92.28			31.9	5.57	37.4	100	8	Average
5700	101.92	101.85			31.9	5.57	37.4	100	8	Peak
5725	65.7	65.58	68.3	-2.6	31.96	5.59	37.43	100	8	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5700MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

MODE D

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5148	47.5	48.21	54	-6.5	31.32	5.29	37.32	100	216	Average
5148	64.03	64.74	74	-9.97	31.32	5.29	37.32	100	216	Peak
5190	89.77	90.44			31.35	5.32	37.34	100	216	Average
5190	99.04	99.71			31.35	5.32	37.34	100	216	Peak
5414	38.25	38.48	54	-15.75	31.53	5.42	37.18	100	216	Average
5414	60.14	60.37	74	-13.86	31.53	5.42	37.18	100	216	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5148	49.39	50.1	54	-4.61	31.32	5.29	37.32	100	27	Average
5148	67.35	68.06	74	-6.65	31.32	5.29	37.32	100	27	Peak
5190	91.52	92.19			31.35	5.32	37.34	100	27	Average
5190	101.36	102.03			31.35	5.32	37.34	100	27	Peak
5456	38.14	38.22	54	-15.86	31.56	5.44	37.08	100	27	Average
5456	59.79	59.87	74	-14.21	31.56	5.44	37.08	100	27	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5190MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5142	37.98	38.67	54	-16.02	31.32	5.29	37.3	100	166	Average
5142	59.64	60.33	74	-14.36	31.32	5.29	37.3	100	166	Peak
5310	93.57	93.94			31.45	5.37	37.19	100	166	Average
5310	102.53	102.9			31.45	5.37	37.19	100	166	Peak
5350	52.05	52.36	54	-1.95	31.48	5.39	37.18	100	166	Average
5350	68.27	68.58	74	-5.73	31.48	5.39	37.18	100	166	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5010	37.78	38.58	54	-16.22	31.21	5.22	37.23	108	271	Average
5010	59.21	60.01	74	-14.79	31.21	5.22	37.23	108	271	Peak
5310	90.37	90.74			31.45	5.37	37.19	108	271	Average
5310	99.45	99.82			31.45	5.37	37.19	108	271	Peak
5350	50.79	51.1	54	-3.21	31.48	5.39	37.18	108	271	Average
5350	66.09	66.4	74	-7.91	31.48	5.39	37.18	108	271	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5310MHz: Fundamental frequency.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5442	37.96	38.1	54	-16.04	31.55	5.44	37.13	100	260	Average
5442	59.39	59.53	74	-14.61	31.55	5.44	37.13	100	260	Peak
5470	57.41	57.47	68.3	-10.89	31.57	5.45	37.08	100	260	Peak
5700	89.47	89.4			31.9	5.57	37.4	100	260	Average
5700	98.65	98.58			31.9	5.57	37.4	100	260	Peak
5725	60.89	60.77	68.3	-7.41	31.96	5.59	37.43	100	260	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5426	37.73	37.91	54	-16.27	31.53	5.42	37.13	146	112	Average
5426	59.75	59.93	74	-14.25	31.53	5.42	37.13	146	112	Peak
5470	59.21	59.27	68.3	-9.09	31.57	5.45	37.08	146	112	Peak
5700	95	94.93			31.9	5.57	37.4	146	112	Average
5700	104.28	104.21			31.9	5.57	37.4	146	112	Peak
5725	65.74	65.62	68.3	-2.56	31.96	5.59	37.43	146	112	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
   Margin value = Emission level – Limit value
2. 5700MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

BELOW 1GHz WORST-CASE DATA:

MODE A

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.77	20.01	36.82	40	-19.99	13.59	0.71	31.11	100	351	Peak
182.01	23.63	43.33	43.5	-19.87	10.6	1.51	31.81	100	214	Peak
246	22.75	41.49	46	-23.25	11.32	1.82	31.88	100	27	Peak
461	25.89	38.68	46	-20.11	16.54	2.65	31.98	100	132	Peak
537.3	25.68	36.32	46	-20.32	18.17	2.91	31.72	100	173	Peak
729.8	30.42	37.27	46	-15.58	21.23	3.52	31.6	100	158	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.15	25.06	41.86	40	-14.94	13.58	0.7	31.08	100	188	Peak
96.69	25.89	47.97	43.5	-17.61	8.83	1.05	31.96	100	61	Peak
245.19	17	35.77	46	-29	11.28	1.82	31.87	100	132	Peak
442.8	19.15	32.35	46	-26.85	16.2	2.59	31.99	100	126	Peak
518.4	22.51	33.49	46	-23.49	17.75	2.84	31.57	100	118	Peak
819.4	25.83	31.21	46	-20.17	22.48	3.74	31.6	100	13	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.42	19.82	36.62	40	-20.18	13.58	0.7	31.08	100	319	Peak
92.64	18.77	41.17	43.5	-24.73	8.53	1.03	31.96	100	237	Peak
184.44	21.72	41.51	43.5	-21.78	10.46	1.52	31.77	100	343	Peak
461	24.49	37.28	46	-21.51	16.54	2.65	31.98	100	213	Peak
691.3	32.19	39.91	46	-13.81	20.71	3.4	31.83	100	345	Peak
844.6	31	36.22	46	-15	22.8	3.81	31.83	100	311	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
44.04	24.02	40.83	40	-15.98	13.59	0.71	31.11	100	156	Peak
97.5	24.7	46.69	43.5	-18.8	8.91	1.06	31.96	100	169	Peak
215.49	13.17	33.14	43.5	-30.33	10.01	1.67	31.65	100	211	Peak
431.6	18.64	32.14	46	-27.36	15.96	2.55	32.01	100	155	Peak
526.8	21.3	32.15	46	-24.7	17.93	2.87	31.65	100	134	Peak
760.6	25.27	31.45	46	-20.73	21.67	3.6	31.45	100	357	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	21.11	37.91	40	-18.89	13.58	0.7	31.08	100	69	Peak
93.45	18.93	41.33	43.5	-24.57	8.53	1.03	31.96	100	303	Peak
184.71	23.2	42.99	43.5	-20.3	10.46	1.52	31.77	100	156	Peak
388.9	19.4	33.98	46	-26.6	15.07	2.38	32.03	100	117	Peak
461	24.99	37.78	46	-21.01	16.54	2.65	31.98	100	136	Peak
537.3	25.49	36.13	46	-20.51	18.17	2.91	31.72	100	84	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
35.67	26.04	43.54	40	-13.96	12.94	0.61	31.05	100	311	Peak
105.33	24.49	45.66	43.5	-19.01	9.62	1.1	31.89	100	248	Peak
181.74	17.12	36.76	43.5	-26.38	10.67	1.51	31.82	100	234	Peak
422.5	20.51	34.25	46	-25.49	15.79	2.51	32.04	100	251	Peak
707.4	25.17	32.56	46	-20.83	20.92	3.45	31.76	100	341	Peak
827.8	27.59	32.94	46	-18.41	22.58	3.76	31.69	100	123	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

MODE B

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
44.31	19.98	36.79	40	-20.02	13.6	0.73	31.14	100	132	Peak
51.06	20.14	37.81	40	-19.86	12.87	0.77	31.31	100	186	Peak
133.68	15.07	33.65	43.5	-28.43	11.94	1.26	31.78	100	121	Peak
498.1	19.6	31.19	46	-26.4	17.29	2.77	31.65	100	151	Peak
669.6	23.64	31.71	46	-22.36	20.44	3.31	31.82	100	226	Peak
816.6	26.23	31.61	46	-19.77	22.44	3.74	31.56	100	163	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	25.61	42.42	40	-14.39	13.59	0.71	31.11	100	149	Peak
89.94	19.56	42.2	43.5	-23.94	8.3	1.02	31.96	100	294	Peak
166.89	13.21	31.5	43.5	-30.29	12.05	1.43	31.77	100	132	Peak
351.8	16.28	31.73	46	-29.72	14.19	2.23	31.87	100	271	Peak
498.8	19.83	31.42	46	-26.17	17.29	2.77	31.65	100	235	Peak
770.4	25.53	31.4	46	-20.47	21.81	3.62	31.3	100	346	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.77	21.82	38.63	40	-18.18	13.59	0.71	31.11	100	118	Peak
149.34	16.11	33.7	43.5	-27.39	12.68	1.34	31.61	100	194	Peak
230.34	11.18	30.63	46	-34.82	10.66	1.74	31.85	100	145	Peak
365.8	15.82	30.95	46	-30.18	14.52	2.29	31.94	100	12	Peak
540.8	19.49	30.06	46	-26.51	18.26	2.92	31.75	100	167	Peak
717.9	23.47	30.6	46	-22.53	21.07	3.48	31.68	100	233	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
41.88	22.87	39.68	40	-17.13	13.56	0.68	31.05	100	146	Peak
115.05	15.62	35.78	43.5	-27.88	10.55	1.16	31.87	100	74	Peak
220.08	12.05	31.85	46	-33.95	10.22	1.69	31.71	100	32	Peak
442.8	17.98	31.18	46	-28.02	16.2	2.59	31.99	100	115	Peak
575.1	21.04	31.09	46	-24.96	19.03	3.02	32.1	100	136	Peak
878.2	26	30.87	46	-20	23.22	3.9	31.99	100	102	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
48.9	19.33	36.64	40	-20.67	13.18	0.76	31.25	100	258	Peak
123.42	13.77	33.24	43.5	-29.73	11.22	1.2	31.89	100	184	Peak
258.96	14.01	32.27	46	-31.99	11.74	1.86	31.86	100	142	Peak
505.8	19.12	30.46	46	-26.88	17.46	2.8	31.6	100	160	Peak
624.8	21.55	30.65	46	-24.45	19.9	3.16	32.16	100	141	Peak
813.1	25.09	30.47	46	-20.91	22.39	3.73	31.5	100	227	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
44.58	21.14	37.95	40	-18.86	13.6	0.73	31.14	100	224	Peak
98.58	17.55	39.47	43.5	-25.95	8.98	1.06	31.96	100	152	Peak
200.64	11.49	32.24	43.5	-32.01	9.4	1.6	31.75	100	103	Peak
475	18.4	30.74	46	-27.6	16.83	2.7	31.87	100	102	Peak
559	21.55	31.97	46	-24.45	18.66	2.97	32.05	100	144	Peak
708.8	23.74	31.08	46	-22.26	20.94	3.46	31.74	100	221	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

MODE C

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.96	21.33	38.13	40	-18.67	13.58	0.7	31.08	100	287	Peak
182.82	25.61	45.36	43.5	-17.89	10.53	1.51	31.79	100	267	Peak
230.34	28.43	47.88	46	-17.57	10.66	1.74	31.85	100	243	Peak
345.5	32.94	48.53	46	-13.06	14.03	2.21	31.83	100	205	Peak
575.8	36.89	46.91	46	-9.11	19.06	3.02	32.1	100	243	Peak
806.1	38.72	44.15	46	-7.28	22.3	3.71	31.44	100	223	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	26.47	43.27	40	-13.53	13.58	0.7	31.08	100	242	Peak
96.96	28.52	50.6	43.5	-14.98	8.83	1.05	31.96	100	162	Peak
230.34	23.94	43.39	46	-22.06	10.66	1.74	31.85	100	125	Peak
345.5	28.98	44.57	46	-17.02	14.03	2.21	31.83	100	220	Peak
537.3	29.64	40.28	46	-16.36	18.17	2.91	31.72	100	167	Peak
575.8	29.19	39.21	46	-16.81	19.06	3.02	32.1	100	149	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.96	21.89	38.69	40	-18.11	13.58	0.7	31.08	100	132	Peak
180.39	24.03	43.63	43.5	-19.47	10.74	1.5	31.84	100	184	Peak
230.34	28.79	48.24	46	-17.21	10.66	1.74	31.85	100	146	Peak
345.5	32.64	48.23	46	-13.36	14.03	2.21	31.83	100	331	Peak
575.8	37.21	47.23	46	-8.79	19.06	3.02	32.1	100	142	Peak
806.1	38.46	43.89	46	-7.54	22.3	3.71	31.44	100	131	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.42	26	42.8	40	-14	13.58	0.7	31.08	100	277	Peak
96.15	25.92	48.07	43.5	-17.58	8.76	1.05	31.96	100	322	Peak
230.34	24.72	44.17	46	-21.28	10.66	1.74	31.85	100	354	Peak
345.5	28.65	44.24	46	-17.35	14.03	2.21	31.83	100	23	Peak
461	27.29	40.08	46	-18.71	16.54	2.65	31.98	100	17	Peak
537.3	28.38	39.02	46	-17.62	18.17	2.91	31.72	100	115	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.96	22.02	38.82	40	-17.98	13.58	0.7	31.08	100	117	Peak
94.8	22.11	44.35	43.5	-21.39	8.68	1.04	31.96	100	231	Peak
230.34	28.52	47.97	46	-17.48	10.66	1.74	31.85	100	242	Peak
345.5	32.09	47.68	46	-13.91	14.03	2.21	31.83	100	151	Peak
575.8	37.65	47.67	46	-8.35	19.06	3.02	32.1	100	238	Peak
806.1	38.57	44	46	-7.43	22.3	3.71	31.44	100	341	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
35.67	26.04	43.54	40	-13.96	12.94	0.61	31.05	100	239	Peak
95.34	25.78	48.02	43.5	-17.72	8.68	1.04	31.96	100	235	Peak
230.34	24.52	43.97	46	-21.48	10.66	1.74	31.85	100	167	Peak
345.5	29.11	44.7	46	-16.89	14.03	2.21	31.83	100	331	Peak
537.3	29.72	40.36	46	-16.28	18.17	2.91	31.72	100	356	Peak
575.8	30.06	40.08	46	-15.94	19.06	3.02	32.1	100	321	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

MODE D

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
44.04	20.4	37.21	40	-19.6	13.59	0.71	31.11	100	179	Peak
93.99	20.44	42.76	43.5	-23.06	8.6	1.04	31.96	100	26	Peak
230.34	29.36	48.81	46	-16.64	10.66	1.74	31.85	100	183	Peak
345.5	32.82	48.41	46	-13.18	14.03	2.21	31.83	100	276	Peak
575.8	38.34	48.36	46	-7.66	19.06	3.02	32.1	100	174	Peak
806.1	37.74	43.17	46	-8.26	22.3	3.71	31.44	100	256	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	26.09	42.9	40	-13.91	13.59	0.71	31.11	100	331	Peak
102.9	27.44	48.94	43.5	-16.06	9.34	1.08	31.92	100	218	Peak
230.34	24.36	43.81	46	-21.64	10.66	1.74	31.85	100	251	Peak
345.5	28.55	44.14	46	-17.45	14.03	2.21	31.83	100	235	Peak
456	26.51	39.41	46	-19.49	16.45	2.64	31.99	100	83	Peak
575.8	30.06	40.08	46	-15.94	19.06	3.02	32.1	100	321	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
44.31	19.54	36.35	40	-20.46	13.6	0.73	31.14	100	262	Peak
181.74	25.48	45.12	43.5	-18.02	10.67	1.51	31.82	100	197	Peak
230.34	30.17	49.62	46	-15.83	10.66	1.74	31.85	100	192	Peak
345.5	32.79	48.38	46	-13.21	14.03	2.21	31.83	100	45	Peak
575.8	38.7	48.72	46	-7.3	19.06	3.02	32.1	100	349	Peak
806.1	38.87	44.3	46	-7.13	22.3	3.71	31.44	100	113	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	25.46	42.26	40	-14.54	13.58	0.7	31.08	100	74	Peak
96.96	25.76	47.84	43.5	-17.74	8.83	1.05	31.96	100	189	Peak
230.34	23.95	43.4	46	-22.05	10.66	1.74	31.85	100	26	Peak
345.5	28.52	44.11	46	-17.48	14.03	2.21	31.83	100	309	Peak
537.3	29.28	39.92	46	-16.72	18.17	2.91	31.72	100	93	Peak
575.8	31.49	41.51	46	-14.51	19.06	3.02	32.1	100	310	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	21.43	38.23	40	-18.57	13.58	0.7	31.08	100	101	Peak
180.93	24.92	44.56	43.5	-18.58	10.67	1.51	31.82	100	335	Peak
230.34	28.57	48.02	46	-17.43	10.66	1.74	31.85	100	59	Peak
345.5	32.84	48.43	46	-13.16	14.03	2.21	31.83	100	125	Peak
575.8	38.28	48.3	46	-7.72	19.06	3.02	32.1	100	22	Peak
806.1	39.22	44.65	46	-6.78	22.3	3.71	31.44	100	282	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	26.06	42.86	40	-13.94	13.58	0.7	31.08	100	315	Peak
95.88	26.01	48.16	43.5	-17.49	8.76	1.05	31.96	100	257	Peak
230.34	24.5	43.95	46	-21.5	10.66	1.74	31.85	100	247	Peak
345.5	28.53	44.12	46	-17.47	14.03	2.21	31.83	100	142	Peak
537.3	28.99	39.63	46	-17.01	18.17	2.91	31.72	100	68	Peak
575.8	30.57	40.59	46	-15.43	19.06	3.02	32.1	100	275	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

MODE E

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	23.56	40.37	40	-16.44	13.59	0.71	31.11	100	222	Peak
76.71	23.31	44.89	40	-16.69	9.09	0.95	31.62	100	95	Peak
167.97	16.58	34.95	43.5	-26.92	11.96	1.43	31.76	100	232	Peak
464.5	20.48	33.14	46	-25.52	16.62	2.66	31.94	100	319	Peak
563.9	22.36	32.67	46	-23.64	18.77	2.99	32.07	100	25	Peak
724.9	25.44	32.41	46	-20.56	21.16	3.5	31.63	100	260	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	22.86	39.67	40	-17.14	13.59	0.71	31.11	100	89	Peak
143.94	23.62	41.47	43.5	-19.88	12.47	1.31	31.63	100	90	Peak
240.06	20.89	39.82	46	-25.11	11.07	1.79	31.79	100	135	Peak
504.4	21.4	32.8	46	-24.6	17.42	2.79	31.61	100	338	Peak
646.5	24.73	33.37	46	-21.27	20.17	3.23	32.04	100	314	Peak
806.1	28.71	34.14	46	-17.29	22.3	3.71	31.44	100	34	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	22.6	39.4	40	-17.4	13.58	0.7	31.08	100	343	Peak
76.71	22.57	44.15	40	-17.43	9.09	0.95	31.62	100	38	Peak
162.57	14.6	32.58	43.5	-28.9	12.44	1.41	31.83	100	137	Peak
451.2	18.6	31.61	46	-27.4	16.35	2.62	31.98	100	346	Peak
578.6	22.09	32.06	46	-23.91	19.12	3.03	32.12	100	322	Peak
720.7	24.68	31.73	46	-21.32	21.11	3.49	31.65	100	88	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.96	22.5	39.3	40	-17.5	13.58	0.7	31.08	100	103	Peak
159.87	16.8	34.56	43.5	-26.7	12.73	1.39	31.88	100	214	Peak
263.82	16.25	34.41	46	-29.75	11.88	1.88	31.92	100	225	Peak
447	18.98	32.09	46	-27.02	16.27	2.61	31.99	100	234	Peak
610.8	22.35	31.58	46	-23.65	19.74	3.12	32.09	100	254	Peak
722.8	25.16	32.17	46	-20.84	21.13	3.5	31.64	100	167	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.5	20.16	36.97	40	-19.84	13.59	0.71	31.11	100	307	Peak
77.25	23.62	45.41	40	-16.38	8.85	0.95	31.59	100	249	Peak
201.18	13.67	34.42	43.5	-29.83	9.4	1.6	31.75	100	119	Peak
465.9	21.2	33.83	46	-24.8	16.64	2.67	31.94	100	237	Peak
577.2	22.88	32.89	46	-23.12	19.08	3.02	32.11	100	173	Peak
783.7	26.99	32.76	46	-19.01	22	3.65	31.42	100	190	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.96	21.76	38.56	40	-18.24	13.58	0.7	31.08	100	211	Peak
143.94	23.4	41.25	43.5	-20.1	12.47	1.31	31.63	100	341	Peak
240.06	21.05	39.98	46	-24.95	11.07	1.79	31.79	100	279	Peak
491.1	21.24	33.11	46	-24.76	17.14	2.75	31.76	100	118	Peak
552	22.59	33.11	46	-23.41	18.5	2.95	31.97	100	131	Peak
720	27.29	34.37	46	-18.71	21.09	3.49	31.66	100	134	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

MODE F

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	19.15	35.95	40	-20.85	13.58	0.7	31.08	100	97	Peak
187.95	19.5	39.47	43.5	-24	10.19	1.54	31.7	100	193	Peak
243.57	20.84	39.68	46	-25.16	11.19	1.81	31.84	100	125	Peak
367.2	16.62	31.69	46	-29.38	14.56	2.3	31.93	100	237	Peak
514.9	20.21	31.3	46	-25.79	17.66	2.83	31.58	100	11	Peak
694.1	23.68	31.34	46	-22.32	20.75	3.41	31.82	100	186	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
41.61	18.83	35.64	40	-21.17	13.56	0.68	31.05	100	138	Peak
146.37	14.95	32.66	43.5	-28.55	12.58	1.33	31.62	100	154	Peak
197.13	11.79	32.38	43.5	-31.71	9.57	1.58	31.74	100	116	Peak
419.7	19.98	33.8	46	-26.02	15.73	2.5	32.05	100	331	Peak
675.2	23.37	31.35	46	-22.63	20.51	3.34	31.83	100	329	Peak
854.4	27.09	32.21	46	-18.91	22.93	3.83	31.88	100	122	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
41.34	18.11	34.92	40	-21.89	13.56	0.68	31.05	100	332	Peak
188.49	19.22	39.19	43.5	-24.28	10.19	1.54	31.7	100	179	Peak
257.88	18.67	36.97	46	-27.33	11.71	1.86	31.87	100	241	Peak
332.9	28.12	44.03	46	-17.88	13.73	2.17	31.81	100	110	Peak
538	23.05	33.67	46	-22.95	18.19	2.91	31.72	100	15	Peak
729.8	26.68	33.53	46	-19.32	21.23	3.52	31.6	100	177	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
41.61	17.36	34.17	40	-22.64	13.56	0.68	31.05	100	262	Peak
137.46	15.56	33.76	43.5	-27.94	12.21	1.28	31.69	100	172	Peak
239.25	14.84	33.8	46	-31.16	11.03	1.79	31.78	100	212	Peak
384	23.19	37.86	46	-22.81	14.96	2.36	31.99	100	154	Peak
461	27.4	40.19	46	-18.6	16.54	2.65	31.98	100	103	Peak
537.3	24.49	35.13	46	-21.51	18.17	2.91	31.72	100	227	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
76.71	17.61	39.19	40	-22.39	9.09	0.95	31.62	100	188	Peak
186.33	18.2	38.08	43.5	-25.3	10.33	1.53	31.74	100	27	Peak
247.35	20.18	38.9	46	-25.82	11.36	1.82	31.9	100	150	Peak
422.5	21.51	35.25	46	-24.49	15.79	2.51	32.04	100	136	Peak
537.3	23.92	34.56	46	-22.08	18.17	2.91	31.72	100	144	Peak
883.1	30.7	35.47	46	-15.3	23.29	3.92	31.98	100	101	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
69.69	17.84	37.99	40	-22.16	10.77	0.9	31.82	100	199	Peak
85.62	16.23	38.75	40	-23.77	8.22	1	31.74	100	316	Peak
168.24	16.29	34.73	43.5	-27.21	11.86	1.44	31.74	100	217	Peak
461	26.7	39.49	46	-19.3	16.54	2.65	31.98	100	152	Peak
537.3	24.57	35.21	46	-21.43	18.17	2.91	31.72	100	163	Peak
883.1	29.15	33.92	46	-16.85	23.29	3.92	31.98	100	236	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

MODE G

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	22.36	39.16	40	-17.64	13.58	0.7	31.08	100	143	Peak
143.94	23.3	41.15	43.5	-20.2	12.47	1.31	31.63	100	253	Peak
161.22	19.24	37.08	43.5	-24.26	12.63	1.39	31.86	100	233	Peak
345.5	26.45	42.04	46	-19.55	14.03	2.21	31.83	100	39	Peak
575.8	24.61	34.63	46	-21.39	19.06	3.02	32.1	100	47	Peak
671.7	27.81	35.82	46	-18.19	20.48	3.33	31.82	100	131	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.5	22.94	39.75	40	-17.06	13.59	0.71	31.11	100	101	Peak
76.71	23.21	44.79	40	-16.79	9.09	0.95	31.62	100	95	Peak
164.19	19.52	37.59	43.5	-23.98	12.34	1.41	31.82	100	180	Peak
461	24.06	36.85	46	-21.94	16.54	2.65	31.98	100	255	Peak
537.3	27.91	38.55	46	-18.09	18.17	2.91	31.72	100	276	Peak
575.8	32.03	42.05	46	-13.97	19.06	3.02	32.1	100	140	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.5	22.68	39.49	40	-17.32	13.59	0.71	31.11	100	104	Peak
143.94	23.61	41.46	43.5	-19.89	12.47	1.31	31.63	100	305	Peak
240.06	22.04	40.97	46	-23.96	11.07	1.79	31.79	100	254	Peak
332.9	26.04	41.95	46	-19.96	13.73	2.17	31.81	100	229	Peak
768.3	28.71	34.64	46	-17.29	21.78	3.62	31.33	100	225	Peak
883.1	31.65	36.42	46	-14.35	23.29	3.92	31.98	100	134	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	22.95	39.75	40	-17.05	13.58	0.7	31.08	100	213	Peak
76.71	22.78	44.36	40	-17.22	9.09	0.95	31.62	100	178	Peak
230.34	18.79	38.24	46	-27.21	10.66	1.74	31.85	100	134	Peak
345.5	25.98	41.57	46	-20.02	14.03	2.21	31.83	100	199	Peak
537.3	28.31	38.95	46	-17.69	18.17	2.91	31.72	100	181	Peak
575.8	31.15	41.17	46	-14.85	19.06	3.02	32.1	100	167	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	22.22	39.03	40	-17.78	13.59	0.71	31.11	100	233	Peak
143.94	23.29	41.14	43.5	-20.21	12.47	1.31	31.63	100	279	Peak
230.34	21.29	40.74	46	-24.71	10.66	1.74	31.85	100	346	Peak
671.7	28.25	36.26	46	-17.75	20.48	3.33	31.82	100	281	Peak
729.8	29.81	36.66	46	-16.19	21.23	3.52	31.6	100	213	Peak
806.1	28.98	34.41	46	-17.02	22.3	3.71	31.44	100	342	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.96	23.34	40.14	40	-16.66	13.58	0.7	31.08	100	221	Peak
76.71	23.12	44.7	40	-16.88	9.09	0.95	31.62	100	243	Peak
165	18.88	37.02	43.5	-24.62	12.25	1.42	31.81	100	220	Peak
345.5	26.36	41.95	46	-19.64	14.03	2.21	31.83	100	273	Peak
537.3	27.98	38.62	46	-18.02	18.17	2.91	31.72	100	256	Peak
575.8	31.42	41.44	46	-14.58	19.06	3.02	32.1	100	126	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

MODE H

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	22.72	39.53	40	-17.28	13.59	0.71	31.11	100	236	Peak
143.94	23.43	41.28	43.5	-20.07	12.47	1.31	31.63	100	111	Peak
230.34	21.15	40.6	46	-24.85	10.66	1.74	31.85	100	175	Peak
345.5	25.58	41.17	46	-20.42	14.03	2.21	31.83	100	134	Peak
671.7	27.01	35.02	46	-18.99	20.48	3.33	31.82	100	244	Peak
834.8	27.3	32.6	46	-18.7	22.68	3.78	31.76	100	199	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.96	22.81	39.61	40	-17.19	13.58	0.7	31.08	100	121	Peak
78.06	22.51	44.51	40	-17.49	8.61	0.96	31.57	100	329	Peak
163.92	18.19	36.26	43.5	-25.31	12.34	1.41	31.82	100	37	Peak
430.9	19.3	32.82	46	-26.7	15.95	2.54	32.01	100	131	Peak
647.9	24.84	33.45	46	-21.16	20.19	3.23	32.03	100	237	Peak
776	26.35	32.2	46	-19.65	21.89	3.64	31.38	100	248	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	22.54	39.34	40	-17.46	13.58	0.7	31.08	100	51	Peak
143.94	23.75	41.6	43.5	-19.75	12.47	1.31	31.63	100	84	Peak
240.06	20.75	39.68	46	-25.25	11.07	1.79	31.79	100	78	Peak
332.9	26.21	42.12	46	-19.79	13.73	2.17	31.81	100	265	Peak
492.5	20.64	32.44	46	-25.36	17.18	2.75	31.73	100	321	Peak
832.7	27.15	32.46	46	-18.85	22.65	3.78	31.74	100	95	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.5	22.75	39.56	40	-17.25	13.59	0.71	31.11	100	33	Peak
76.44	23.19	44.77	40	-16.81	9.09	0.95	31.62	100	207	Peak
166.35	17.76	36.05	43.5	-25.74	12.05	1.43	31.77	100	238	Peak
496	21.35	33.05	46	-24.65	17.23	2.76	31.69	100	142	Peak
610.1	23.5	32.73	46	-22.5	19.73	3.12	32.08	100	199	Peak
777.4	27.13	32.97	46	-18.87	21.92	3.64	31.4	100	54	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Peter Weng

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	23.25	40.06	40	-16.75	13.59	0.71	31.11	100	317	Peak
143.94	23.46	41.31	43.5	-20.04	12.47	1.31	31.63	100	303	Peak
240.06	20.56	39.49	46	-25.44	11.07	1.79	31.79	100	360	Peak
332.9	28.11	44.02	46	-17.89	13.73	2.17	31.81	100	314	Peak
384	21.81	36.48	46	-24.19	14.96	2.36	31.99	100	346	Peak
671.7	27.3	35.31	46	-18.7	20.48	3.33	31.82	100	320	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.23	23.09	39.9	40	-16.91	13.59	0.71	31.11	100	47	Peak
76.44	23.31	44.89	40	-16.69	9.09	0.95	31.62	100	90	Peak
167.97	18.18	36.55	43.5	-25.32	11.96	1.43	31.76	100	31	Peak
482	21.23	33.38	46	-24.77	16.96	2.72	31.83	100	302	Peak
610.1	24.54	33.77	46	-21.46	19.73	3.12	32.08	100	161	Peak
790.7	27	32.64	46	-19	22.09	3.67	31.4	100	320	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 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 0.50MHz.
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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Apr. 24, 2014	Apr. 23, 2015
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 23, 2013	Dec. 22, 2014
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 08, 2013	Jul. 07, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	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 HwaYa Shielded Room 2.
3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

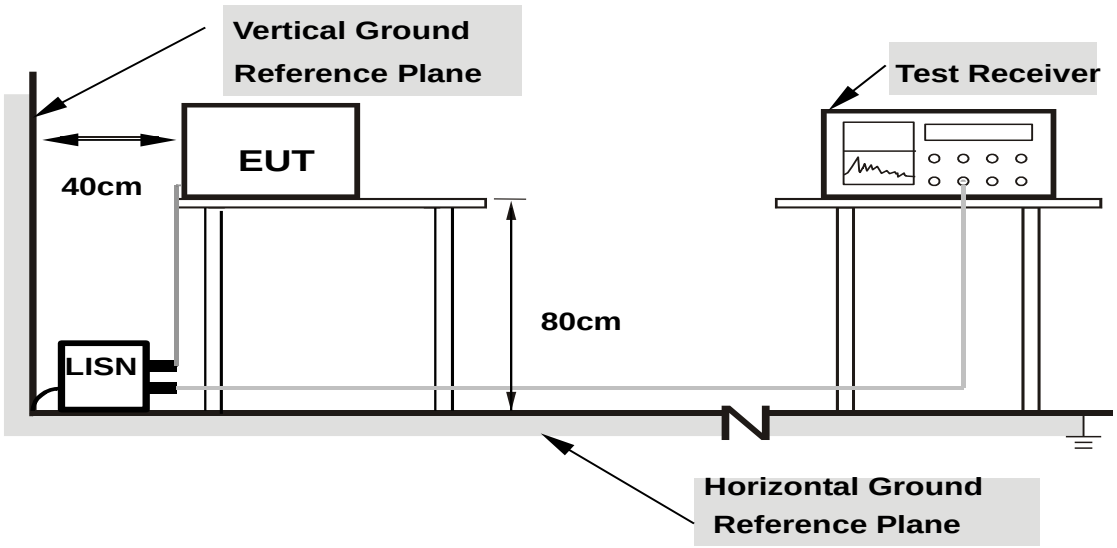
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 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 attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as section 4.1.6.

4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA：

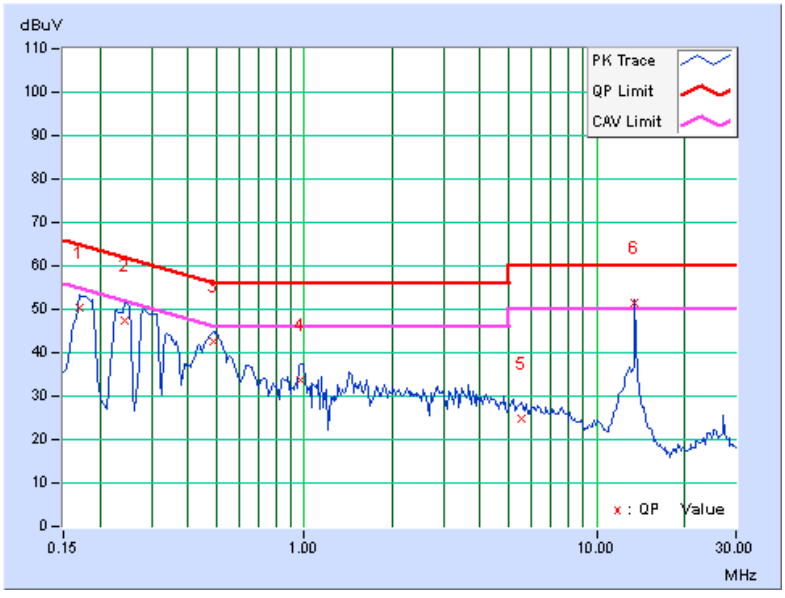
MODE A

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	50.28	35.50	50.55	35.77	64.98	54.98	-14.43	-19.21
2	0.24375	0.28	47.03	33.17	47.31	33.45	61.97	51.97	-14.65	-18.51
3	0.48594	0.31	42.15	30.88	42.46	31.19	56.24	46.24	-13.78	-15.05
4	0.97031	0.34	33.38	21.35	33.72	21.69	56.00	46.00	-22.28	-24.31
5	5.53516	0.45	24.21	19.95	24.66	20.40	60.00	50.00	-35.34	-29.60
6	13.55859	0.52	50.79	46.45	51.31	46.97	60.00	50.00	-8.69	-3.03

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

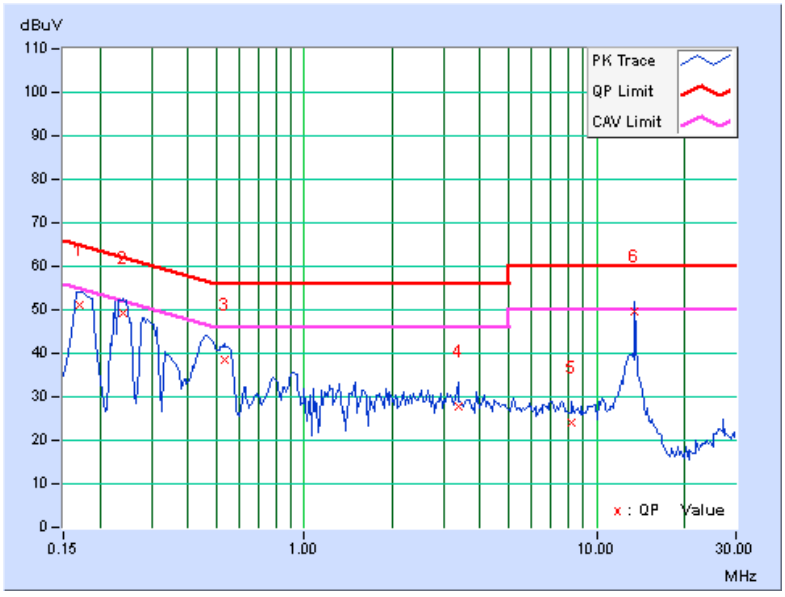


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	50.98	35.60	51.25	35.87	64.98	54.98	-13.73	-19.11
2	0.23984	0.28	49.00	35.56	49.28	35.84	62.10	52.10	-12.82	-16.26
3	0.53281	0.31	38.13	26.51	38.44	26.82	56.00	46.00	-17.56	-19.18
4	3.36719	0.42	27.18	19.11	27.60	19.53	56.00	46.00	-28.40	-26.47
5	8.19922	0.50	23.73	18.18	24.23	18.68	60.00	50.00	-35.77	-31.32
6	13.55859	0.55	48.94	45.26	49.49	45.81	60.00	50.00	-10.51	-4.19

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



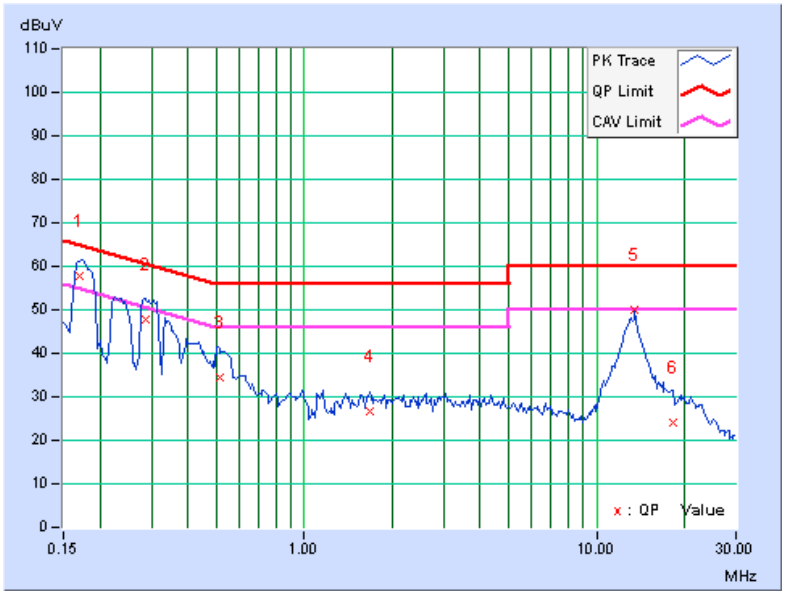
MODE B

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	57.53	41.82	57.80	42.09	64.98	54.98	-7.18	-12.89
2	0.28672	0.29	47.35	34.79	47.64	35.08	60.62	50.62	-12.98	-15.54
3	0.51328	0.31	34.31	22.46	34.62	22.77	56.00	46.00	-21.38	-23.23
4	1.67188	0.35	26.15	17.88	26.50	18.23	56.00	46.00	-29.50	-27.77
5	13.55859	0.52	49.66	45.94	50.18	46.46	60.00	50.00	-9.82	-3.54
6	18.36328	0.57	23.34	17.97	23.91	18.54	60.00	50.00	-36.09	-31.46

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

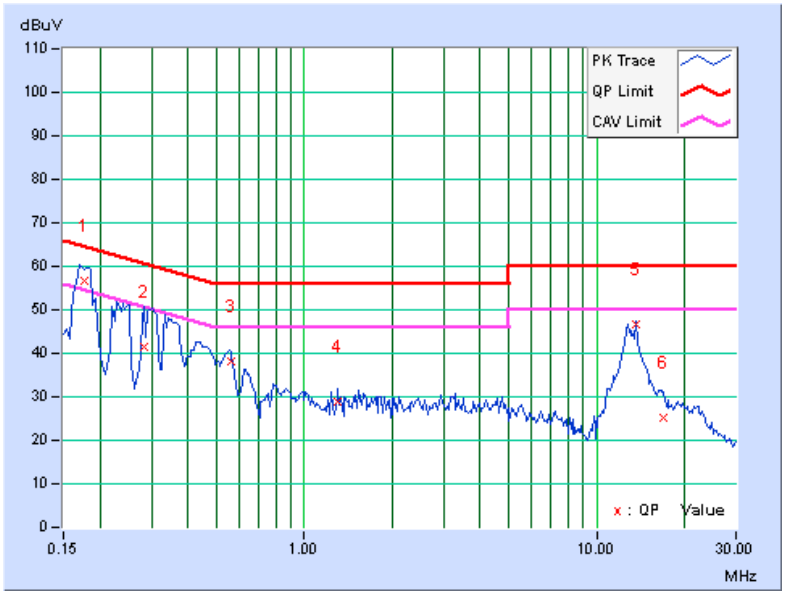


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	0.27	56.38	42.49	56.65	42.76	64.61	54.61	-7.96	-11.85
2	0.28281	0.29	41.18	25.65	41.47	25.94	60.73	50.73	-19.26	-24.79
3	0.56406	0.31	37.74	27.29	38.05	27.60	56.00	46.00	-17.95	-18.40
4	1.30078	0.35	28.46	19.38	28.81	19.73	56.00	46.00	-27.19	-26.27
5	13.56250	0.55	45.98	44.03	46.53	44.58	60.00	50.00	-13.47	-5.42
6	17.02734	0.60	24.54	19.18	25.14	19.78	60.00	50.00	-34.86	-30.22

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



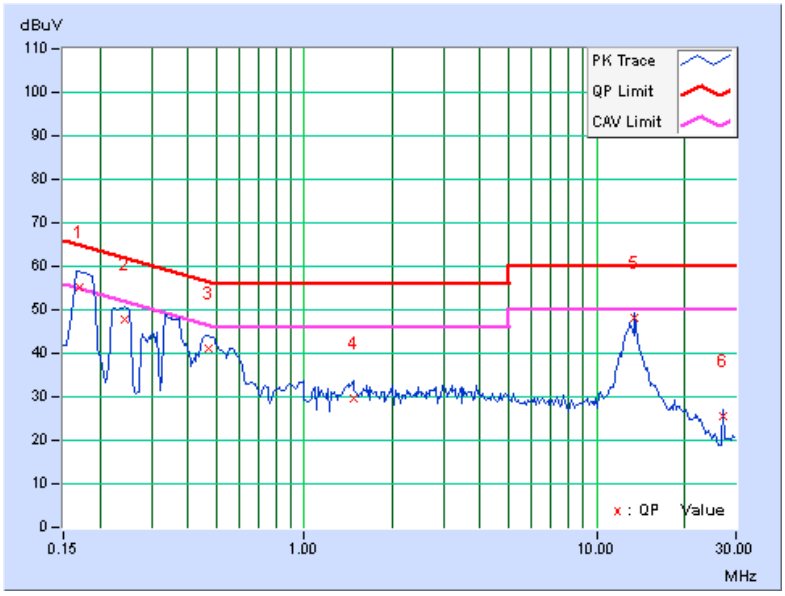
MODE C

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	55.09	39.25	55.36	39.52	64.98	54.98	-9.62	-15.46
2	0.24375	0.28	47.60	33.83	47.88	34.11	61.97	51.97	-14.08	-17.85
3	0.47031	0.30	40.68	29.72	40.98	30.02	56.51	46.51	-15.52	-16.48
4	1.46875	0.35	29.35	17.49	29.70	17.84	56.00	46.00	-26.30	-28.16
5	13.55859	0.52	47.65	45.48	48.17	46.00	60.00	50.00	-11.83	-4.00
6	27.11719	0.49	25.09	21.48	25.58	21.97	60.00	50.00	-34.42	-28.03

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

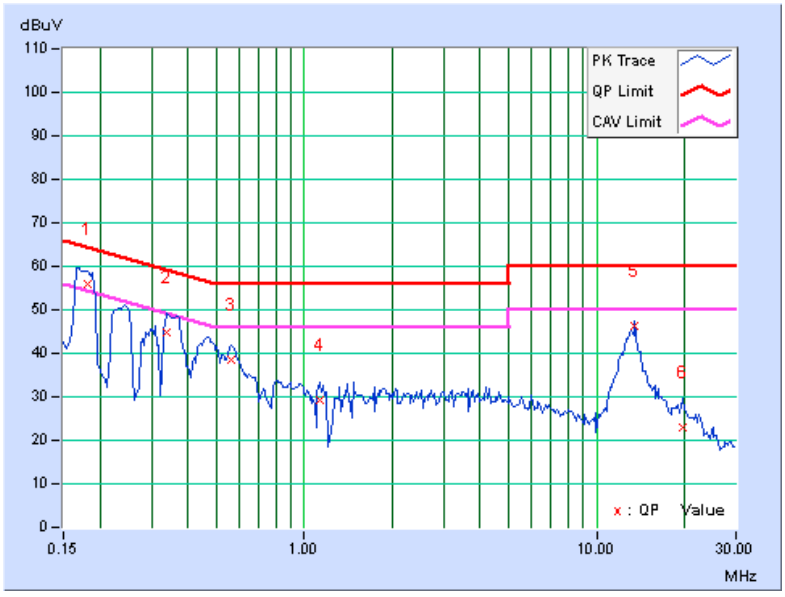


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	0.27	55.52	41.00	55.79	41.27	64.43	54.43	-8.63	-13.15
2	0.33750	0.29	44.68	32.30	44.97	32.59	59.26	49.26	-14.29	-16.67
3	0.56406	0.31	38.23	27.48	38.54	27.79	56.00	46.00	-17.46	-18.21
4	1.13281	0.34	29.09	18.71	29.43	19.05	56.00	46.00	-26.57	-26.95
5	13.55859	0.55	45.80	43.85	46.35	44.40	60.00	50.00	-13.65	-5.60
6	19.69141	0.64	22.31	17.63	22.95	18.27	60.00	50.00	-37.05	-31.73

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



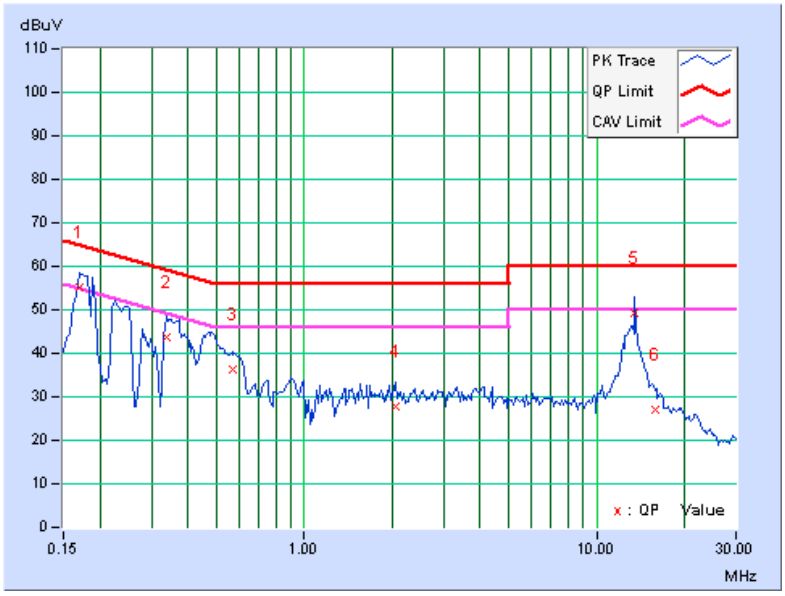
MODE D

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	55.09	39.25	55.36	39.52	64.98	54.98	-9.62	-15.46
2	0.33750	0.29	43.53	31.19	43.82	31.48	59.26	49.26	-15.44	-17.78
3	0.57188	0.31	36.08	24.53	36.39	24.84	56.00	46.00	-19.61	-21.16
4	2.04688	0.36	27.40	19.11	27.76	19.47	56.00	46.00	-28.24	-26.53
5	13.55859	0.52	48.59	46.05	49.11	46.57	60.00	50.00	-10.89	-3.43
6	15.86719	0.54	26.36	21.05	26.90	21.59	60.00	50.00	-33.10	-28.41

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

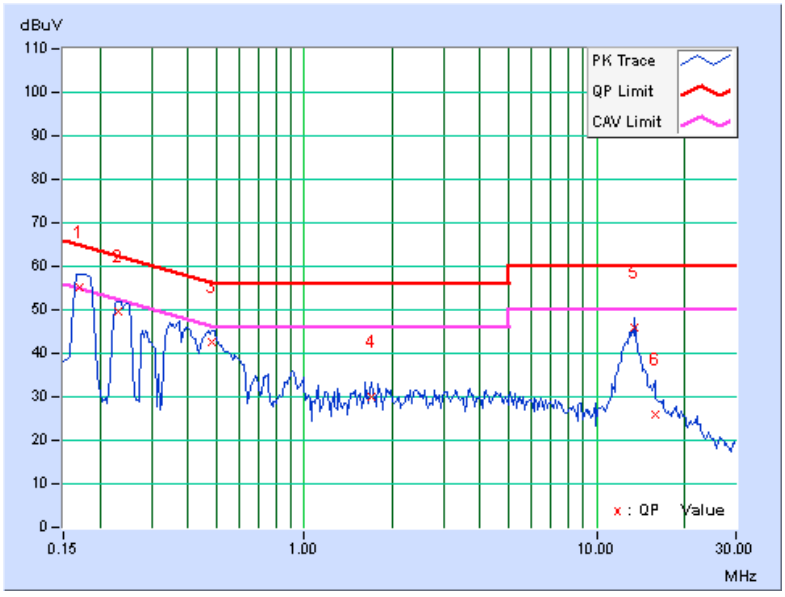


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	55.01	39.09	55.28	39.36	64.98	54.98	-9.70	-15.62
2	0.23203	0.28	49.35	37.47	49.63	37.75	62.38	52.38	-12.74	-14.62
3	0.48203	0.31	42.11	31.14	42.42	31.45	56.30	46.30	-13.89	-14.86
4	1.69922	0.36	29.50	19.84	29.86	20.20	56.00	46.00	-26.14	-25.80
5	13.55859	0.55	45.36	43.15	45.91	43.70	60.00	50.00	-14.09	-6.30
6	15.85156	0.58	25.48	19.81	26.06	20.39	60.00	50.00	-33.94	-29.61

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



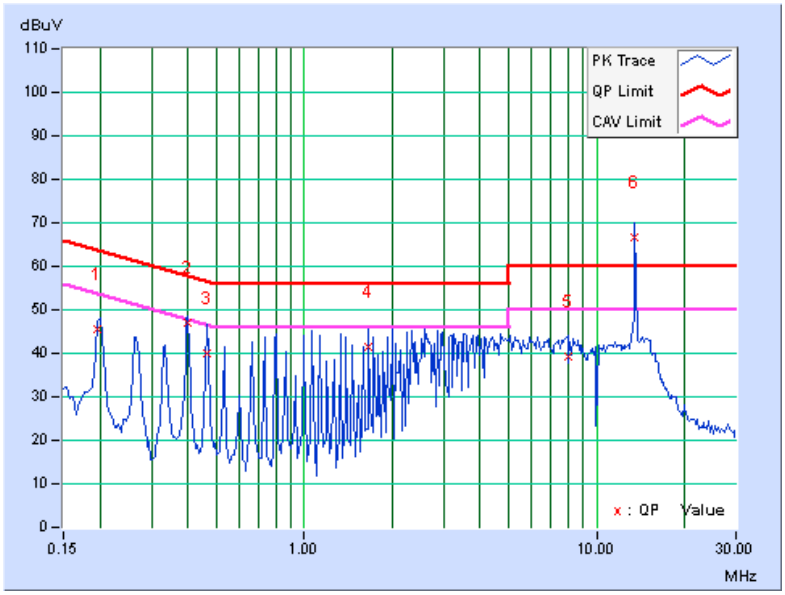
MODE E

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20078	0.28	45.45	39.46	45.73	39.74	63.58	53.58	-17.85	-13.84
2	0.26719	0.29	42.83	41.62	43.12	41.91	61.20	51.20	-18.09	-9.30
3	0.66563	0.32	42.33	40.27	42.65	40.59	56.00	46.00	-13.35	-5.41
4	2.72656	0.39	41.68	40.03	42.07	40.42	56.00	46.00	-13.93	-5.58
5	9.90625	0.50	42.65	38.38	43.15	38.88	60.00	50.00	-16.85	-11.12
6	13.55859	0.52	67.58	64.27	68.10	64.79	60.00	50.00	8.10	14.79

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.

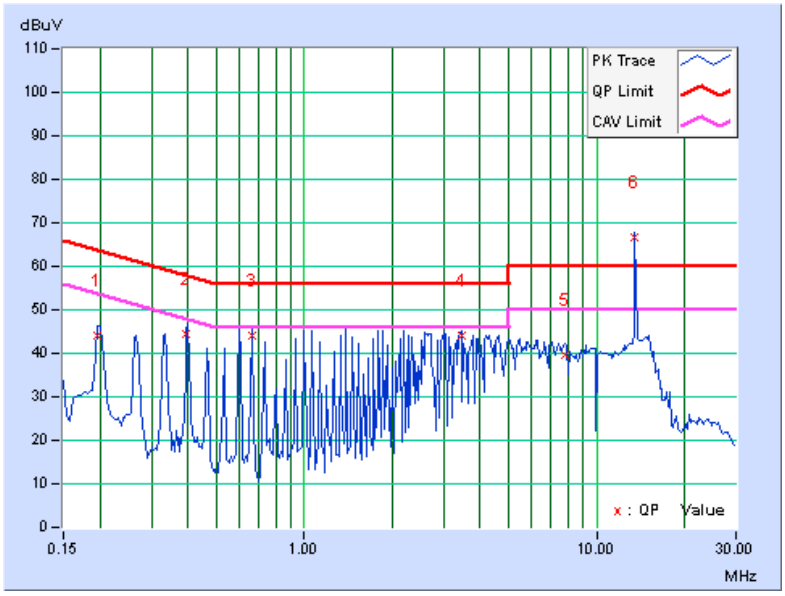


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	43.67	40.17	43.95	40.45	63.74	53.74	-19.79	-13.29
2	0.39609	0.30	44.22	43.78	44.52	44.08	57.93	47.93	-13.42	-3.86
3	0.66563	0.32	43.72	43.41	44.04	43.73	56.00	46.00	-11.96	-2.27
4	3.45703	0.42	43.78	41.69	44.20	42.11	56.00	46.00	-11.80	-3.89
5	7.83984	0.49	39.13	37.61	39.62	38.10	60.00	50.00	-20.38	-11.90
6	13.55859	0.55	66.18	62.79	66.73	63.34	60.00	50.00	6.73	13.34

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.



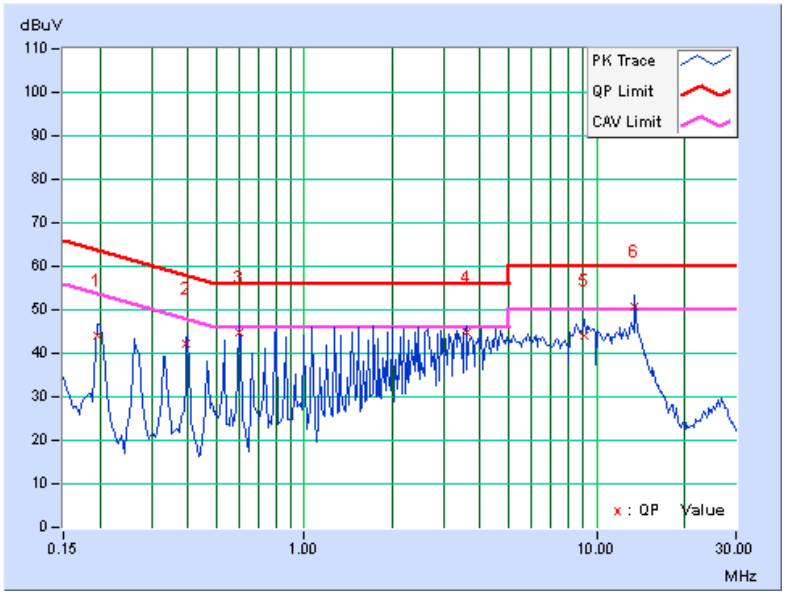
Test with suitable dummy load

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	43.96	39.66	44.24	39.94	63.74	53.74	-19.50	-13.80
2	0.39609	0.30	41.93	40.32	42.23	40.62	57.93	47.93	-15.71	-7.32
3	0.59922	0.31	44.46	40.27	44.77	40.58	56.00	46.00	-11.23	-5.42
4	3.58984	0.42	44.42	40.60	44.84	41.02	56.00	46.00	-11.16	-4.98
5	9.10547	0.49	43.57	39.56	44.06	40.05	60.00	50.00	-15.94	-9.95
6	13.55859	0.52	50.30	45.37	50.82	45.89	60.00	50.00	-9.18	-4.11

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

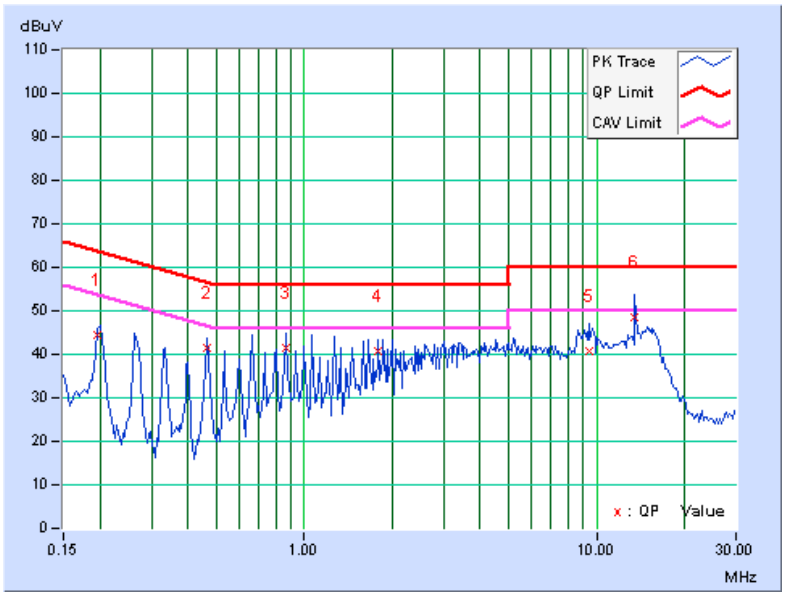


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	44.10	37.49	44.38	37.77	63.74	53.74	-19.36	-15.97
2	0.46641	0.30	41.33	41.05	41.63	41.35	56.58	46.58	-14.94	-5.22
3	0.86484	0.33	41.09	40.02	41.42	40.35	56.00	46.00	-14.58	-5.65
4	1.79297	0.36	40.41	36.25	40.77	36.61	56.00	46.00	-15.23	-9.39
5	9.44141	0.51	40.26	35.63	40.77	36.14	60.00	50.00	-19.23	-13.86
6	13.55859	0.55	47.93	43.99	48.48	44.54	60.00	50.00	-11.52	-5.46

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



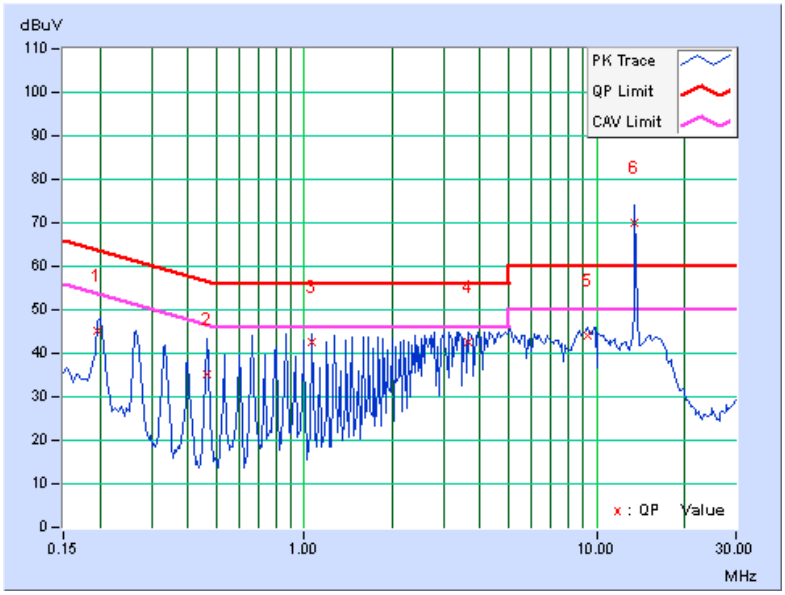
MODE F

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	44.90	39.27	45.18	39.55	63.74	53.74	-18.56	-14.19
2	0.46641	0.30	35.06	33.89	35.36	34.19	56.58	46.58	-21.21	-12.38
3	1.06250	0.34	42.37	41.24	42.71	41.58	56.00	46.00	-13.29	-4.42
4	3.65625	0.42	42.00	39.05	42.42	39.47	56.00	46.00	-13.58	-6.53
5	9.37109	0.49	43.52	40.18	44.01	40.67	60.00	50.00	-15.99	-9.33
6	13.55859	0.52	69.53	64.22	70.05	64.74	60.00	50.00	10.05	14.74

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.

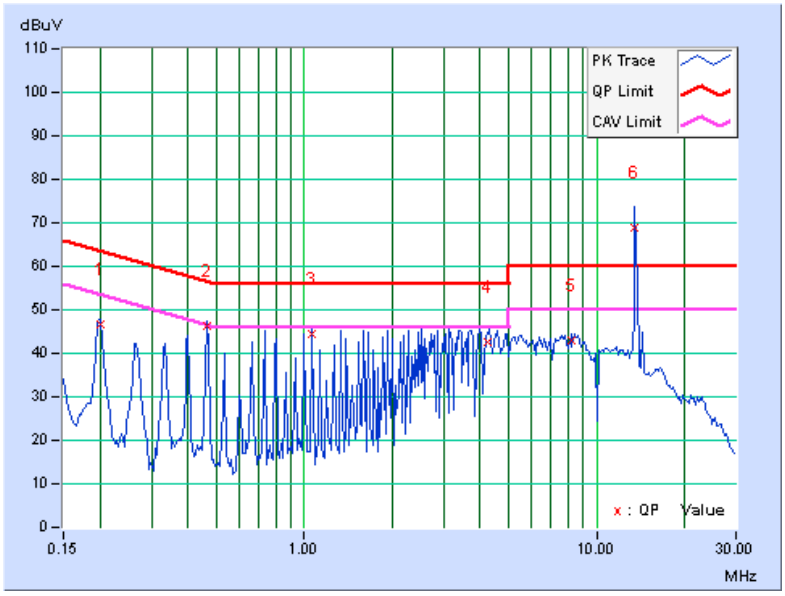


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20078	0.28	46.34	42.60	46.62	42.88	63.58	53.58	-16.96	-10.70
2	0.46641	0.30	45.85	40.46	46.15	40.76	56.58	46.58	-10.42	-5.81
3	1.06250	0.34	44.22	41.95	44.56	42.29	56.00	46.00	-11.44	-3.71
4	4.25391	0.44	42.00	41.54	42.44	41.98	56.00	46.00	-13.56	-4.02
5	8.17578	0.50	42.53	41.37	43.03	41.87	60.00	50.00	-16.97	-8.13
6	13.55859	0.55	68.19	63.94	68.74	64.49	60.00	50.00	8.74	14.49

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.



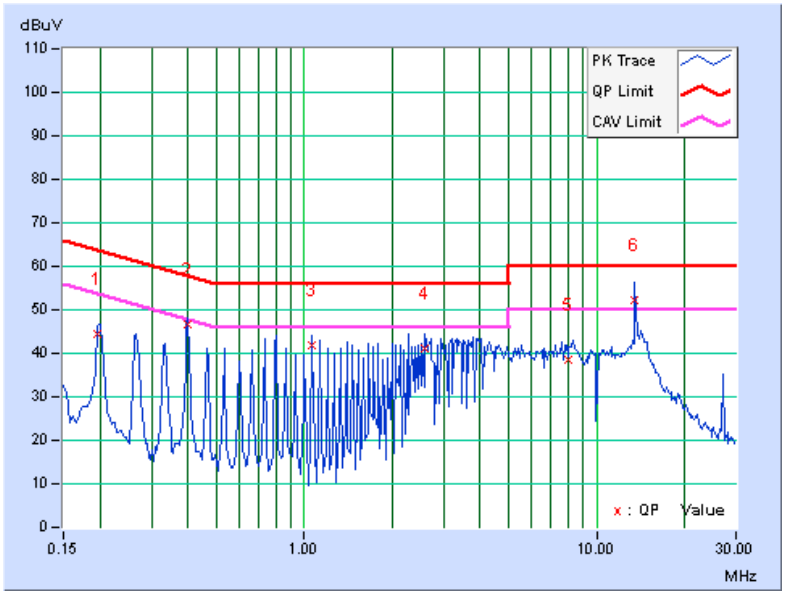
Test with suitable dummy load

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20078	0.28	46.14	42.44	46.42	42.72	63.58	53.58	-17.16	-10.86
2	0.46641	0.30	45.98	41.62	46.28	41.92	56.58	46.58	-10.29	-4.65
3	0.73203	0.32	43.77	43.48	44.09	43.80	56.00	46.00	-11.91	-2.20
4	2.79297	0.39	43.97	39.89	44.36	40.28	56.00	46.00	-11.64	-5.72
5	8.57422	0.48	40.14	35.08	40.62	35.56	60.00	50.00	-19.38	-14.44
6	13.55859	0.52	49.23	45.83	49.75	46.35	60.00	50.00	-10.25	-3.65

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

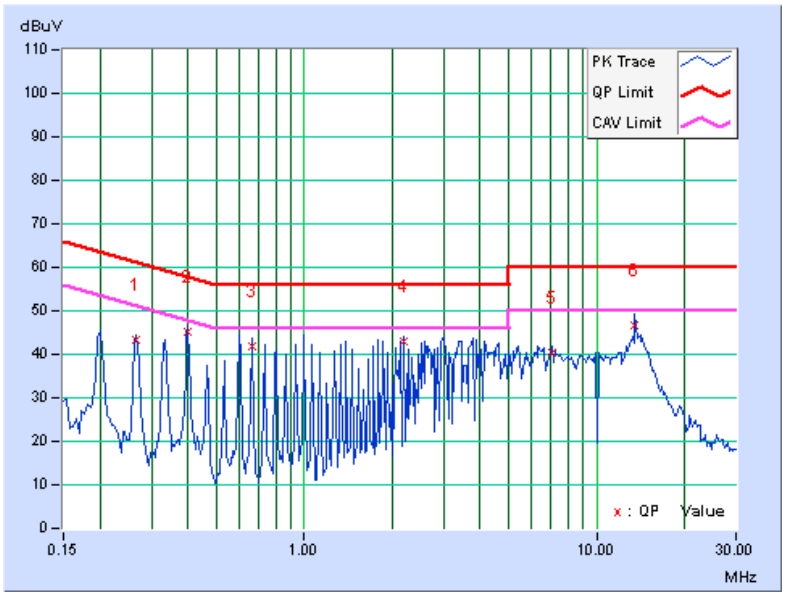


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.26719	0.29	42.95	40.39	43.24	40.68	61.20	51.20	-17.97	-10.53
2	0.40000	0.30	44.80	44.25	45.10	44.55	57.85	47.85	-12.75	-3.30
3	0.66563	0.32	41.44	40.50	41.76	40.82	56.00	46.00	-14.24	-5.18
4	2.19531	0.38	42.56	41.28	42.94	41.66	56.00	46.00	-13.06	-4.34
5	7.04688	0.48	40.06	38.62	40.54	39.10	60.00	50.00	-19.46	-10.90
6	13.55859	0.55	46.11	42.72	46.66	43.27	60.00	50.00	-13.34	-6.73

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



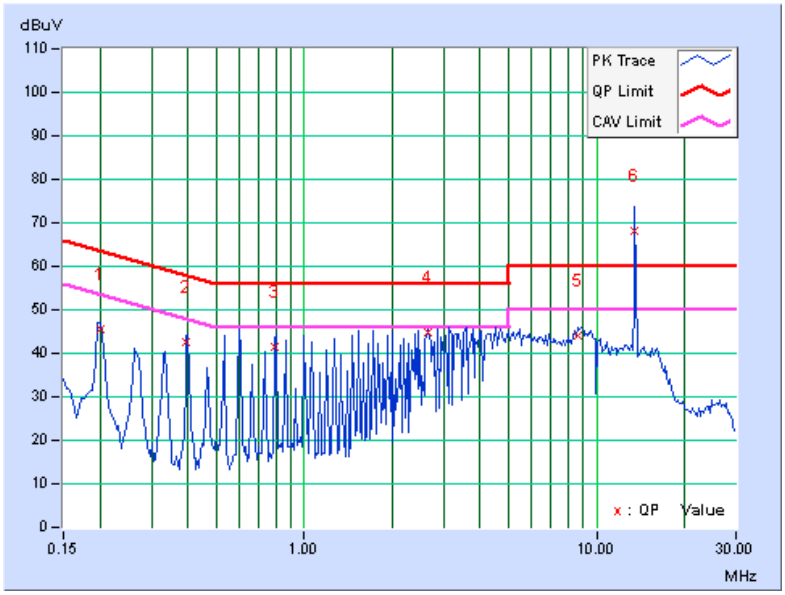
MODE G

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20078	0.28	45.38	41.62	45.66	41.90	63.58	53.58	-17.92	-11.68
2	0.39609	0.30	42.16	41.50	42.46	41.80	57.93	47.93	-15.48	-6.14
3	0.79453	0.33	41.07	40.91	41.40	41.24	56.00	46.00	-14.60	-4.76
4	2.66016	0.38	44.30	40.84	44.68	41.22	56.00	46.00	-11.32	-4.78
5	8.64063	0.48	43.44	40.24	43.92	40.72	60.00	50.00	-16.08	-9.28
6	13.55859	0.52	67.51	64.20	68.03	64.72	60.00	50.00	8.03	14.72

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.

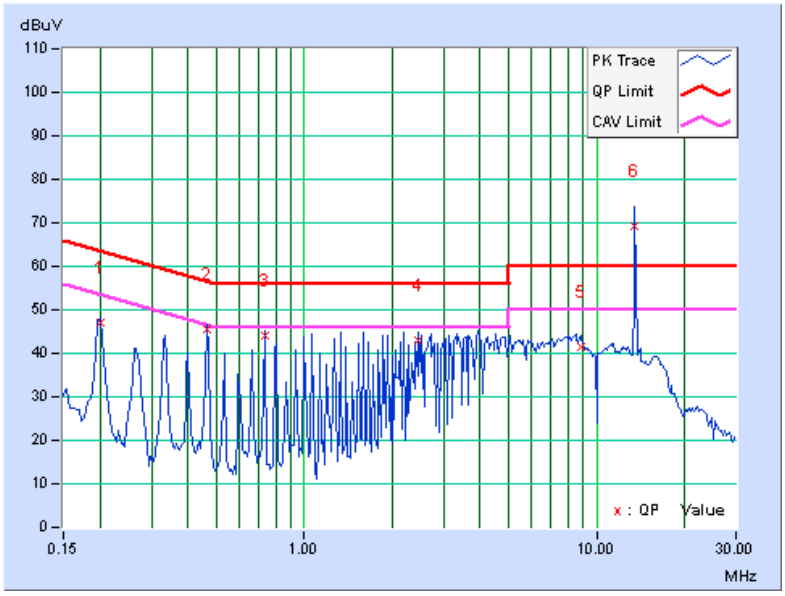


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20078	0.28	46.59	43.04	46.87	43.32	63.58	53.58	-16.71	-10.26
2	0.46641	0.30	45.17	41.70	45.47	42.00	56.58	46.58	-11.10	-4.57
3	0.73203	0.32	43.91	40.72	44.23	41.04	56.00	46.00	-11.77	-4.96
4	2.46094	0.39	42.61	42.61	43.00	43.00	56.00	46.00	-13.00	-3.00
5	8.83984	0.50	40.91	37.86	41.41	38.36	60.00	50.00	-18.59	-11.64
6	13.55859	0.55	68.54	64.12	69.09	64.67	60.00	50.00	9.09	14.67

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.



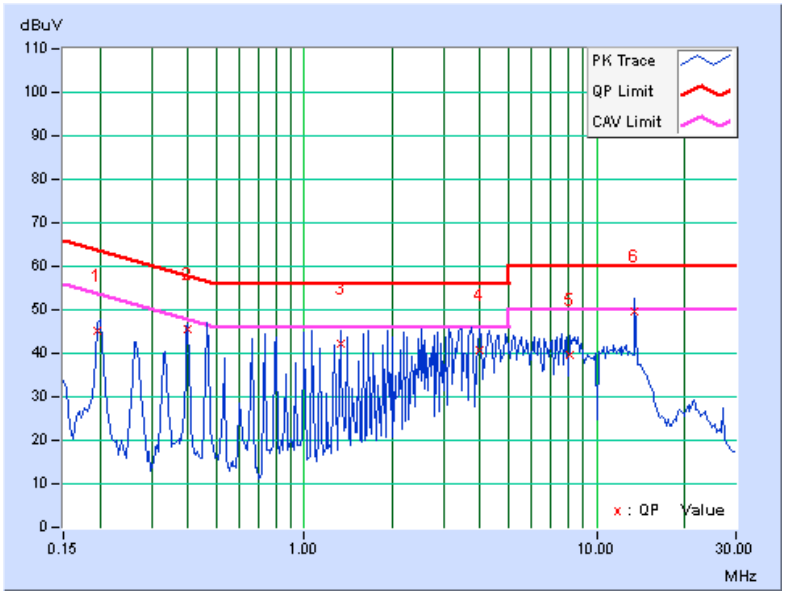
Test with suitable dummy load

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	44.97	41.17	45.25	41.45	63.74	53.74	-18.49	-12.29
2	0.40000	0.30	45.22	41.85	45.52	42.15	57.85	47.85	-12.33	-5.70
3	1.32813	0.35	41.94	41.35	42.29	41.70	56.00	46.00	-13.71	-4.30
4	3.98828	0.43	40.43	36.74	40.86	37.17	56.00	46.00	-15.14	-8.83
5	8.10938	0.48	39.32	36.94	39.80	37.42	60.00	50.00	-20.20	-12.58
6	13.55859	0.52	49.02	45.76	49.54	46.28	60.00	50.00	-10.46	-3.72

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

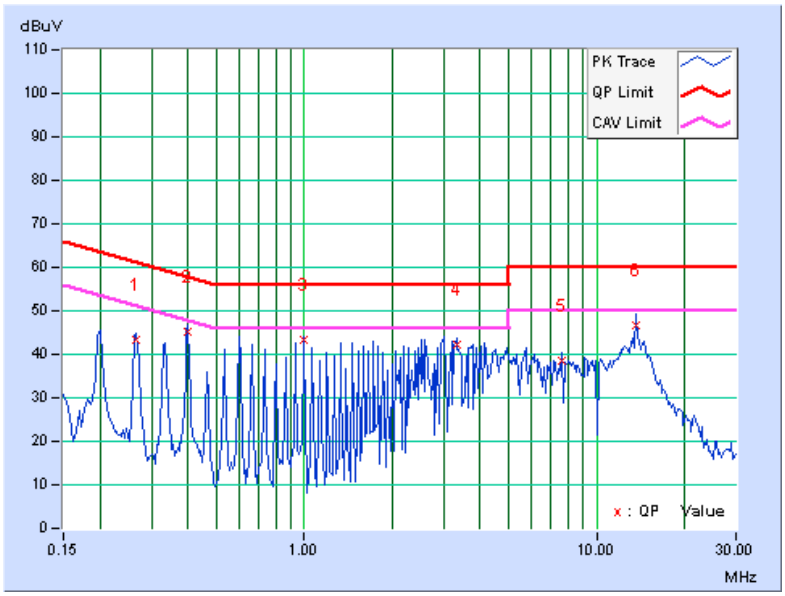


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.26719	0.29	43.19	40.59	43.48	40.88	61.20	51.20	-17.73	-10.33
2	0.40000	0.30	44.90	41.33	45.20	41.63	57.85	47.85	-12.65	-6.22
3	0.99766	0.34	43.03	41.65	43.37	41.99	56.00	46.00	-12.63	-4.01
4	3.32422	0.42	41.71	41.38	42.13	41.80	56.00	46.00	-13.87	-4.20
5	7.64844	0.49	38.09	35.95	38.58	36.44	60.00	50.00	-21.42	-13.56
6	13.56250	0.55	46.18	43.03	46.73	43.58	60.00	50.00	-13.27	-6.42

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



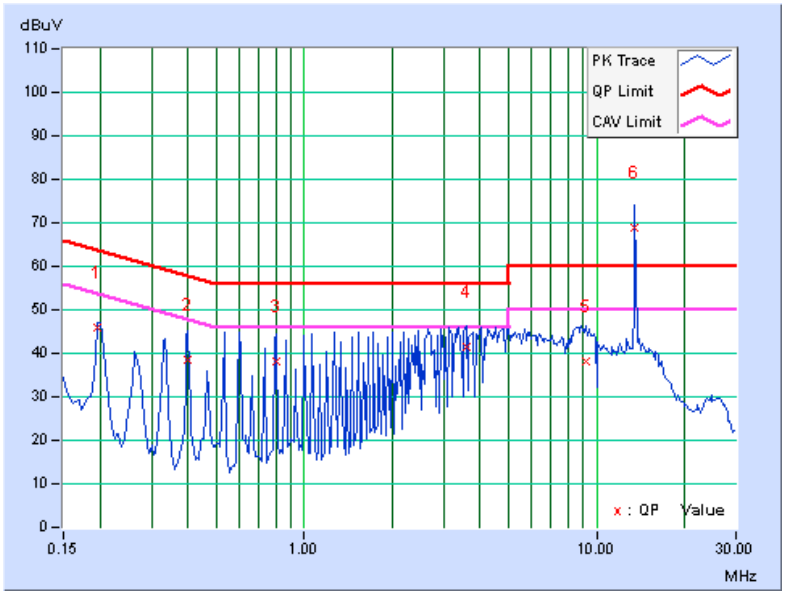
MODE H

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	45.83	42.48	46.11	42.76	63.74	53.74	-17.63	-10.98
2	0.40000	0.30	38.04	33.80	38.34	34.10	57.85	47.85	-19.51	-13.75
3	0.79844	0.33	37.89	36.89	38.22	37.22	56.00	46.00	-17.78	-8.78
4	3.58984	0.42	41.11	37.67	41.53	38.09	56.00	46.00	-14.47	-7.91
5	9.17578	0.49	37.53	33.44	38.02	33.93	60.00	50.00	-21.98	-16.07
6	13.55859	0.52	68.20	65.89	68.72	66.41	60.00	50.00	8.72	16.41

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.

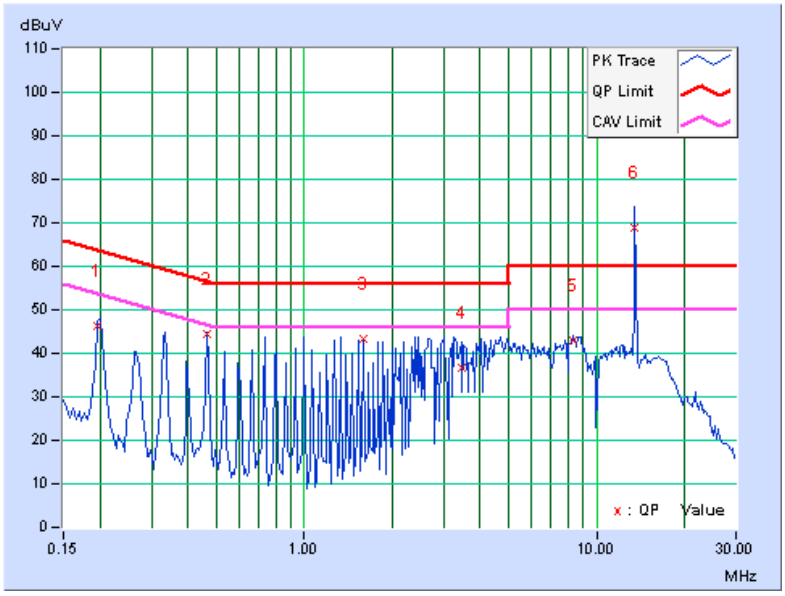


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	46.06	42.38	46.34	42.66	63.74	53.74	-17.40	-11.08
2	0.46641	0.30	44.14	43.56	44.44	43.86	56.58	46.58	-12.13	-2.71
3	1.59375	0.36	42.96	42.53	43.32	42.89	56.00	46.00	-12.68	-3.11
4	3.45313	0.42	36.27	31.56	36.69	31.98	56.00	46.00	-19.31	-14.02
5	8.30859	0.50	42.38	38.26	42.88	38.76	60.00	50.00	-17.12	-11.24
6	13.55859	0.55	68.30	64.97	68.85	65.52	60.00	50.00	8.85	15.52

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
6. No. 6 is NFC signal inductive with measurement system. Please see the test result for EUT with a suitable dummy load.



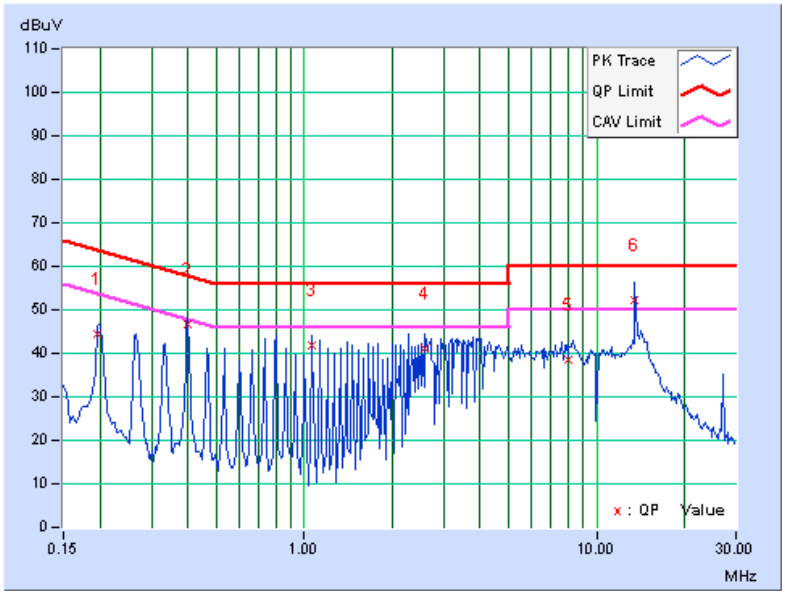
Test with suitable dummy load

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	44.10	40.13	44.38	40.41	63.74	53.74	-19.36	-13.33
2	0.40000	0.30	46.45	41.93	46.75	42.23	57.85	47.85	-11.10	-5.62
3	1.06250	0.34	41.68	40.54	42.02	40.88	56.00	46.00	-13.98	-5.12
4	2.59375	0.38	40.88	38.69	41.26	39.07	56.00	46.00	-14.74	-6.93
5	8.04297	0.48	38.05	34.09	38.53	34.57	60.00	50.00	-21.47	-15.43
6	13.55859	0.52	51.80	46.06	52.32	46.58	60.00	50.00	-7.68	-3.42

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

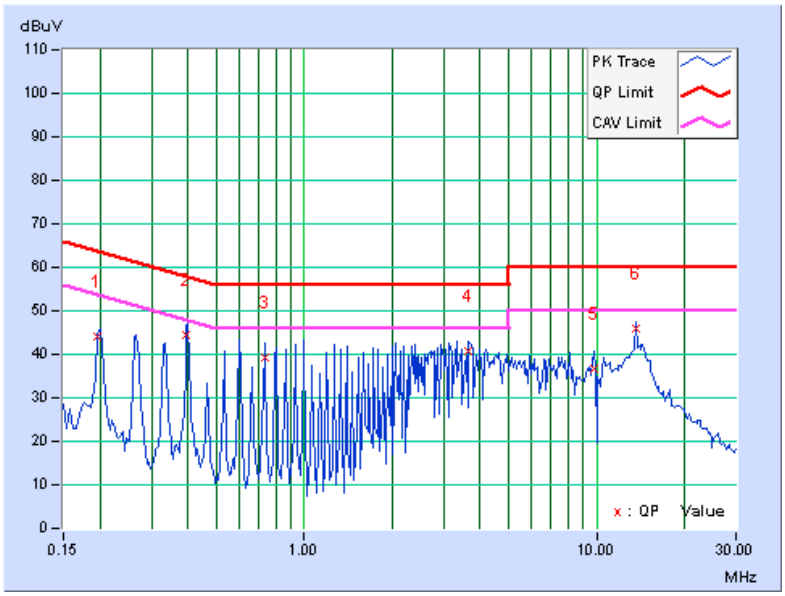


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.28	43.65	39.66	43.93	39.94	63.74	53.74	-19.81	-13.80
2	0.39609	0.30	44.20	43.48	44.50	43.78	57.93	47.93	-13.44	-4.16
3	0.73203	0.32	39.09	38.26	39.41	38.58	56.00	46.00	-16.59	-7.42
4	3.65625	0.43	40.36	37.63	40.79	38.06	56.00	46.00	-15.21	-7.94
5	9.77344	0.52	36.16	33.23	36.68	33.75	60.00	50.00	-23.32	-16.25
6	13.56250	0.55	45.37	42.80	45.92	43.35	60.00	50.00	-14.08	-6.65

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



4.3 PEAK TRANSMIT POWER MEASUREMENT

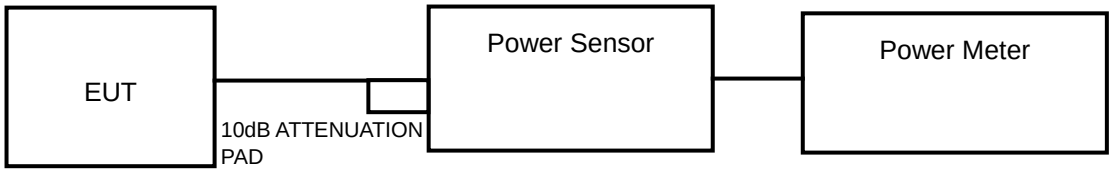
4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.250 ~ 5.350GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.470 ~ 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB

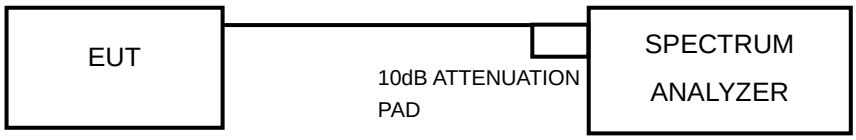
NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB BANDWIDTH



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

<802.11a, 802.11n (20MHz), 802.11n (40MHz)>

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.3.7 TEST RESULTS

POWER OUTPUT

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	27.10	14.33	17	PASS
44	5220	28.51	14.55	17	PASS
48	5240	26.67	14.26	17	PASS
52	5260	35.81	15.54	24	PASS
60	5300	36.64	15.64	24	PASS
64	5320	36.81	15.66	24	PASS
100	5500	33.27	15.22	24	PASS
116	5580	34.20	15.34	24	PASS
140	5700	31.84	15.03	24	PASS

NOTE:

For 5180~5240MHz:

1. 4dBm + 10log(28.36) = 18.53dBm > 17dBm.
2. 4dBm + 10log(28.08) = 18.48dBm > 17dBm.
3. 4dBm + 10log(29.71) = 18.73dBm > 17dBm.

For 5260~5700MHz:

1. 11dBm + 10log(39.01) = 26.91dBm > 24dBm.
2. 11dBm + 10log(39.05) = 26.92dBm > 24dBm.
3. 11dBm + 10log(38.69) = 26.88dBm > 24dBm.
4. 11dBm + 10log(42.39) = 27.27dBm > 24dBm.
5. 11dBm + 10log(39.15) = 26.93dBm > 24dBm.
6. 11dBm + 10log(40.82) = 27.11dBm > 24dBm.

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	29.58	14.71	17	PASS
44	5220	28.71	14.58	17	PASS
48	5240	29.31	14.67	17	PASS
52	5260	40.55	16.08	24	PASS
60	5300	40.46	16.07	24	PASS
64	5320	40.74	16.10	24	PASS
100	5500	34.59	15.39	24	PASS
116	5580	32.43	15.11	24	PASS
140	5700	31.77	15.02	24	PASS

NOTE:

For 5180~5240MHz:

1. 4dBm + 10log(37.55) = 19.75dBm > 17dBm.
2. 4dBm + 10log(37.79) = 19.77dBm > 17dBm.
3. 4dBm + 10log(38.03) = 19.80dBm > 17dBm.

For 5260~5700MHz:

1. 11dBm + 10log(41.36) = 27.17dBm > 24dBm.
2. 11dBm + 10log(40.49) = 27.07dBm > 24dBm.
3. 11dBm + 10log(39.84) = 27.00dBm > 24dBm.
4. 11dBm + 10log(40.59) = 27.08dBm > 24dBm.
5. 11dBm + 10log(40.90) = 27.12dBm > 24dBm.
6. 11dBm + 10log(41.16) = 27.14dBm > 24dBm.

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	14.86	11.72	17	PASS
46	5230	25.88	14.13	17	PASS
54	5270	27.86	14.45	24	PASS
62	5310	26.30	14.20	24	PASS
102	5510	22.28	13.48	24	PASS
110	5550	20.32	13.08	24	PASS
134	5670	18.92	12.77	24	PASS

NOTE:

For 5180~5240MHz:

1. 4dBm + 10log(78.40) = 22.94dBm > 17dBm.
2. 4dBm + 10log(75.93) = 22.80dBm > 17dBm.

For 5260~5700MHz:

1. 11dBm + 10log(78.82) = 29.97dBm > 24dBm.
2. 11dBm + 10log(82.62) = 30.17dBm > 24dBm.
3. 11dBm + 10log(78.57) = 29.95dBm > 24dBm.
4. 11dBm + 10log(80.53) = 30.06dBm > 24dBm.
5. 11dBm + 10log(85.20) = 30.30dBm > 24dBm.

26dB BANDWIDTH

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	28.36	PASS
44	5220	28.08	PASS
48	5240	29.71	PASS
52	5260	39.01	PASS
60	5300	39.05	PASS
64	5320	38.69	PASS
100	5500	42.39	PASS
116	5580	39.15	PASS
140	5700	40.82	PASS

802.11n (20MHz)

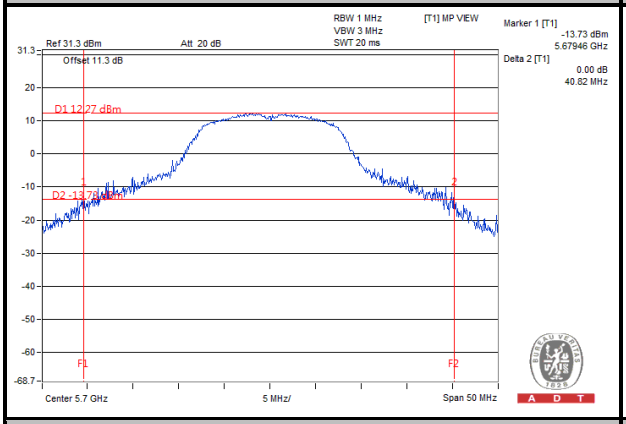
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	37.55	PASS
44	5220	37.79	PASS
48	5240	38.03	PASS
52	5260	41.36	PASS
60	5300	40.49	PASS
64	5320	39.84	PASS
100	5500	40.59	PASS
116	5580	40.90	PASS
140	5700	41.16	PASS

802.11n (40MHz)

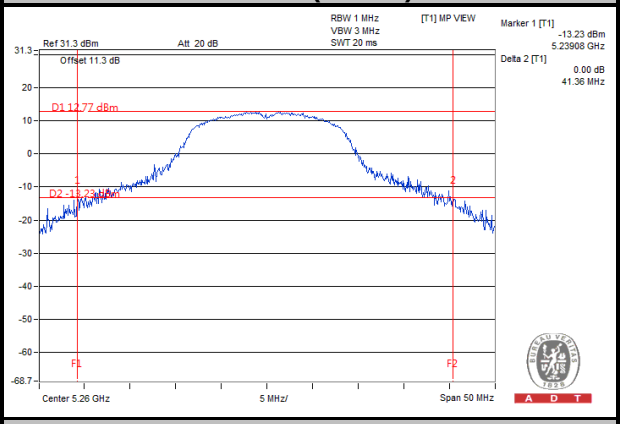
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	78.40	PASS
46	5230	75.93	PASS
54	5270	78.82	PASS
62	5310	82.62	PASS
102	5510	78.57	PASS
110	5550	80.53	PASS
134	5670	85.20	PASS

SPECTRUM PLOT OF WORST VALUE

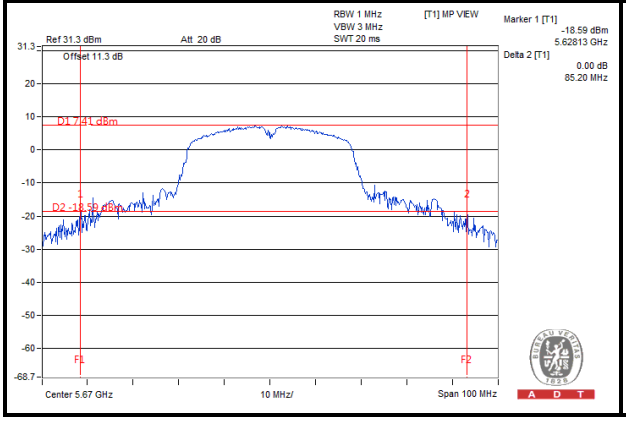
802.11a



802.11n (20MHz)



802.11n (40MHz)

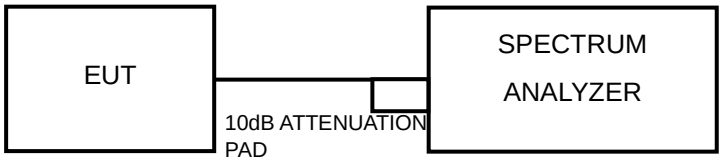


4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	4dBm
5.250 ~ 5.350GHz	11dBm
5.470 ~ 5.725GHz	11dBm

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.4.4 TEST PROCEDURES

<802.11a, 802.11n (20MHz), 802.11n (40MHz)>

Using method SA-2 alternative

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Sweep time = 4second.
4) Perform a single sweep.
5) Record the max value and add 10 log (1/duty cycle)

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.4.7 TEST RESULTS

802.11a

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	2.81	0.74	3.55	4	PASS
44	5220	2.77	0.74	3.51	4	PASS
48	5240	2.88	0.74	3.62	4	PASS
52	5260	3.42	0.74	4.16	11	PASS
60	5300	3.73	0.74	4.47	11	PASS
64	5320	3.88	0.74	4.62	11	PASS
100	5500	4.19	0.74	4.93	11	PASS
116	5580	3.67	0.74	4.41	11	PASS
140	5700	2.95	0.74	3.69	11	PASS

NOTE: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	2.69	0.77	3.46	4	PASS
44	5220	2.89	0.77	3.66	4	PASS
48	5240	3.00	0.77	3.77	4	PASS
52	5260	3.43	0.77	4.20	11	PASS
60	5300	3.71	0.77	4.48	11	PASS
64	5320	3.91	0.77	4.68	11	PASS
100	5500	3.80	0.77	4.57	11	PASS
116	5580	3.22	0.77	3.99	11	PASS
140	5700	2.50	0.77	3.27	11	PASS

NOTE: Refer to section 3.3 for duty cycle spectrum plot.

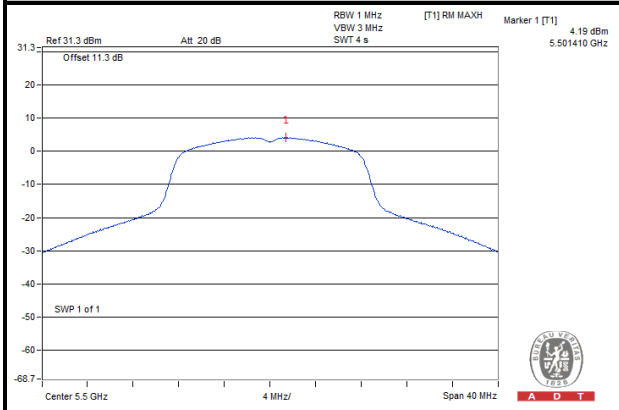
802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
38	5190	-2.18	1.69	-0.49	4	PASS
46	5230	-2.05	1.69	-0.36	4	PASS
54	5270	-1.32	1.69	0.37	11	PASS
62	5310	-1.03	1.69	0.66	11	PASS
102	5510	-2.12	1.69	-0.43	11	PASS
110	5550	-2.34	1.69	-0.65	11	PASS
134	5670	-2.81	1.69	-1.12	11	PASS

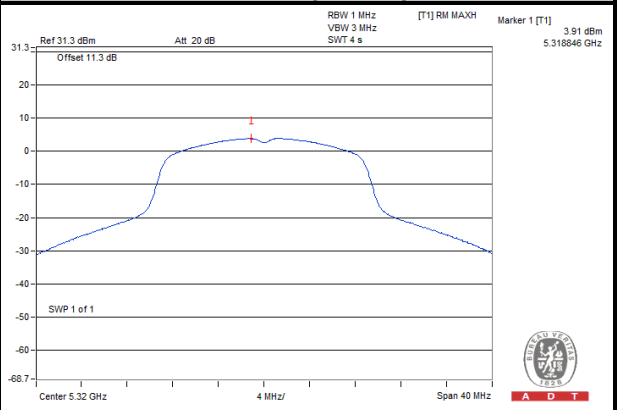
NOTE: Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

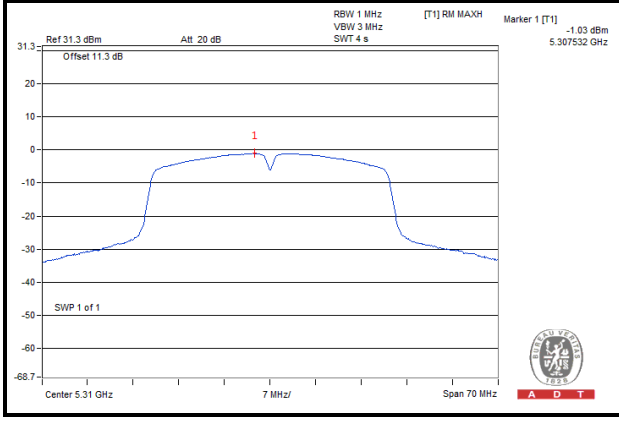
802.11a



802.11n (20MHz)



802.11n (40MHz)

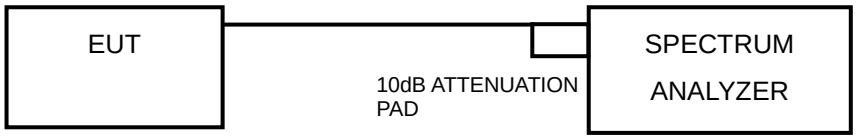


4.5 PEAK POWER EXCURSION MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

Shall not exceed 13 dB.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.5.4 TEST PROCEDURE

a. Set the RBW = 1 kHz, VBW ≥ 3 MHz, Detector = peak.
b. Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
c. Use the peak search function to find the peak of the spectrum.
d. Measure the PPSD.
e. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.
Find the worst channel and modulation mode as above test procedure, and follow KDB 789033 D01 General UNII Test Procedures v01r03 and repeat step 1 to 5 for final testing of each modulation mode on a single channel (all modulation types) in a single operating band to compliance with the peak excursion requirement.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

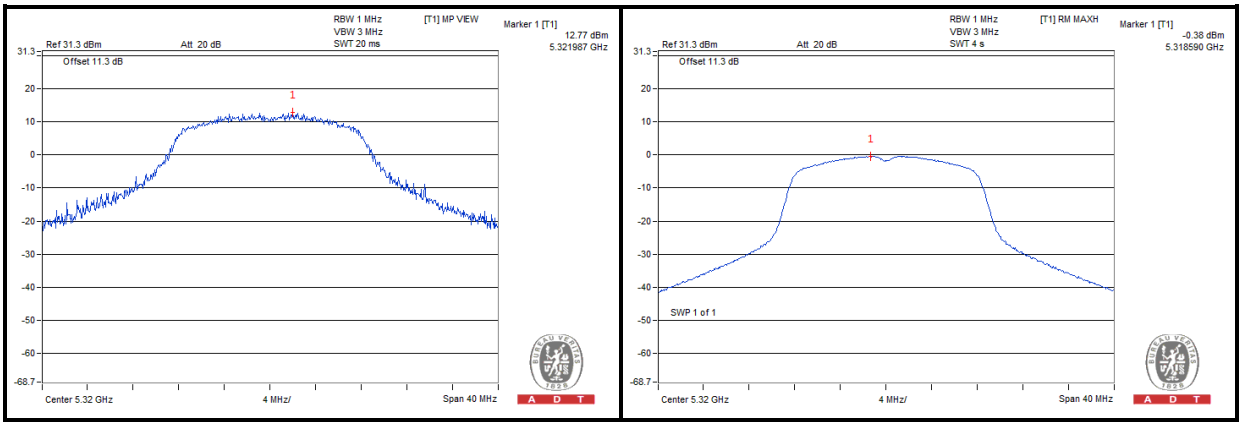
4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6.

4.5.7 TEST RESULTS

MODULATION MODE	MODULATION TYPE	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)	PPSD WITHOUT DUTY FACTOR (dBm)	PPSD WITH DUTY FACTOR (dBm)	PEAK EXCURSION (dB)	LIMIT (dB)	PASS/FAIL
802.11a	BPSK	5320	13.68	4.62	3.88	9.06	13	PASS
	QPSK		13.82	4.99	3.62	8.83	13	PASS
	16QAM		13.86	4.77	2.28	9.09	13	PASS
	64QAM		12.77	3.40	-0.38	9.37	13	PASS
802.11n (20MHz)	BPSK	5320	13.47	4.68	3.91	8.79	13	PASS
	QPSK		14.44	5.12	3.73	9.32	13	PASS
	16QAM		13.94	5.32	2.89	8.62	13	PASS
	64QAM		12.30	3.21	-0.65	9.09	13	PASS
802.11n (40MHz)	BPSK	5310	9.24	0.66	-1.03	8.58	13	PASS
	QPSK		9.70	1.30	-1.54	8.40	13	PASS
	16QAM		10.94	2.02	-2.48	8.92	13	PASS
	64QAM		10.59	3.06	-3.82	7.53	13	PASS

NOTE: Refer to section 3.3 for duty cycle spectrum plot.

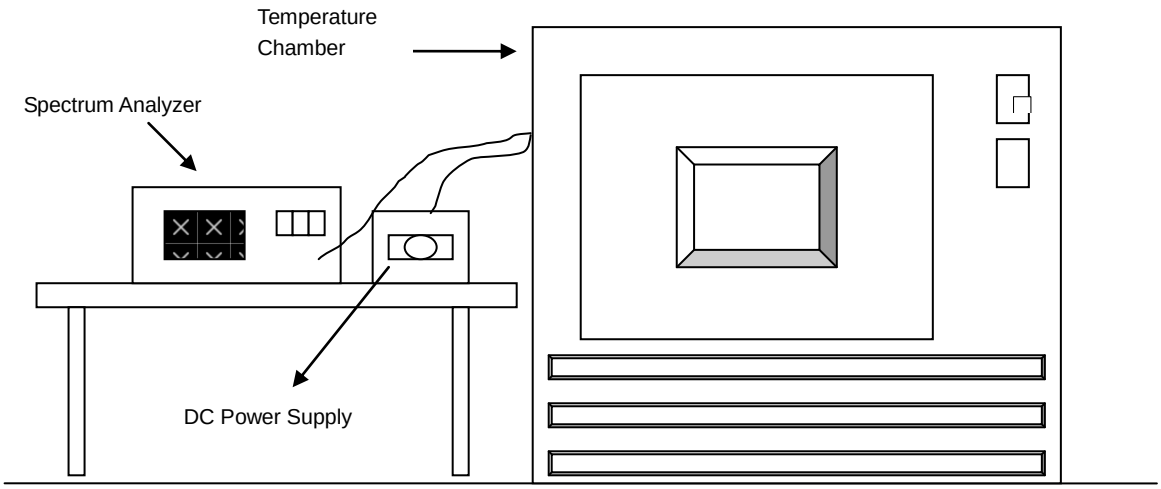


4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation.

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.6.4 TEST PROCEDURE

a. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
b. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
c. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 TEST RESULTS

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	3.8	5320.012354	2.322	5320.012139	2.282	5320.012075	2.270	5320.012458	2.342
40	3.8	5320.012177	2.289	5320.012000	2.256	5320.012143	2.283	5320.012132	2.280
30	3.8	5320.013969	2.626	5320.013451	2.528	5320.013449	2.528	5320.013735	2.582
20	3.8	5320.014976	2.815	5320.015266	2.870	5320.014903	2.801	5320.014956	2.811
10	3.8	5320.015795	2.969	5320.015775	2.965	5320.016098	3.026	5320.015881	2.985
0	3.8	5320.014552	2.735	5320.014527	2.731	5320.014535	2.732	5320.014205	2.670
-10	3.8	5320.012780	2.402	5320.012399	2.331	5320.012364	2.324	5320.012839	2.413
-20	3.8	5320.012443	2.339	5320.012379	2.327	5320.012462	2.342	5320.012138	2.282
-30	3.8	5320.010601	1.993	5320.010920	2.053	5320.010433	1.961	5320.010967	2.061

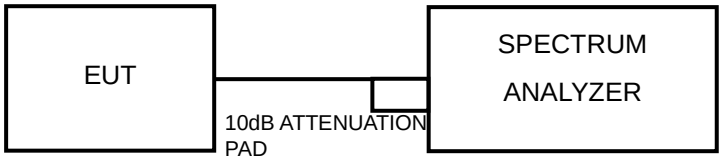
FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	3.4	5320.014626	2.749	5320.014328	2.693	5320.014233	2.675	5320.014566	2.738
	3.8	5320.014976	2.815	5320.015266	2.870	5320.014903	2.801	5320.014956	2.811
	4.20	5320.016339	3.071	5320.015860	2.981	5320.015837	2.977	5320.016215	3.048

4.7 20dBc BANDWIDTH MEASUREMENT

4.7.1 LIMITS OF 20dBc BANDWIDTH MEASUREMENT

20dBc point shall not overlap in 5150~5700MHz.

4.7.2 TEST SETUP



4.7.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.7.4 TEST PROCEDURES

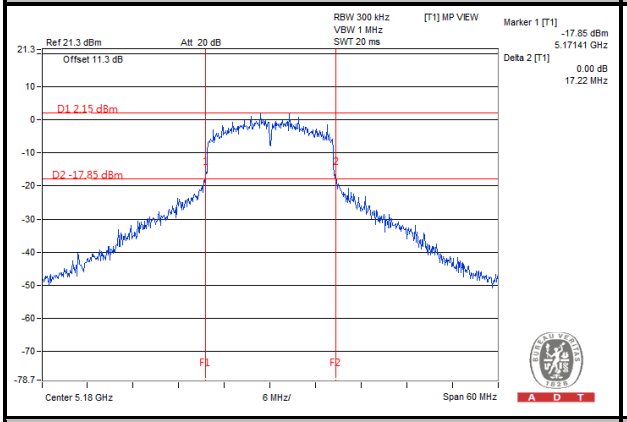
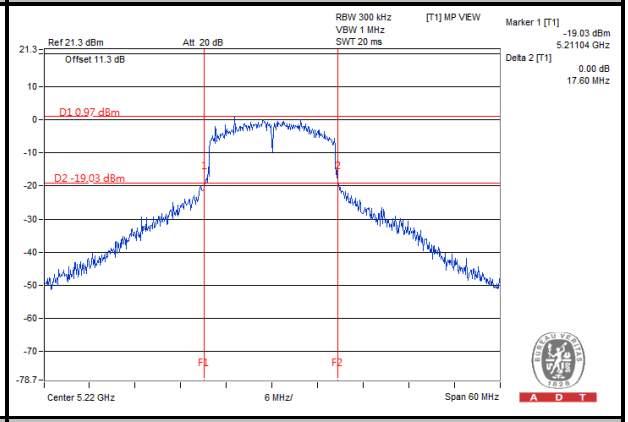
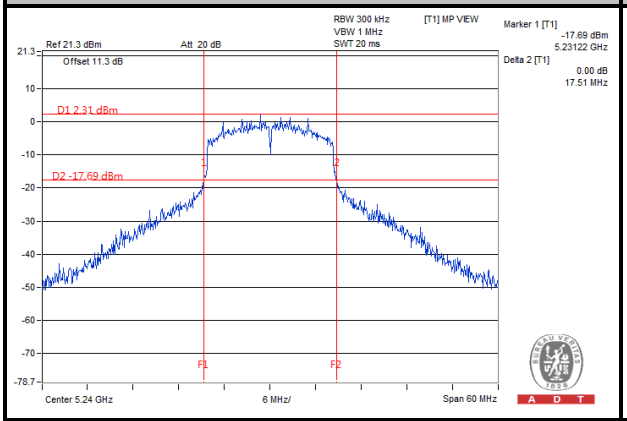
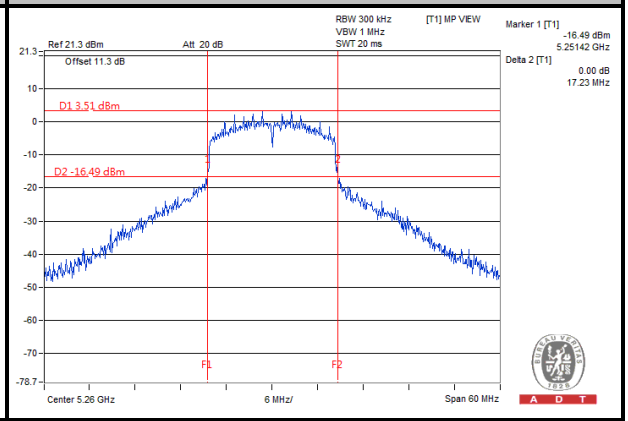
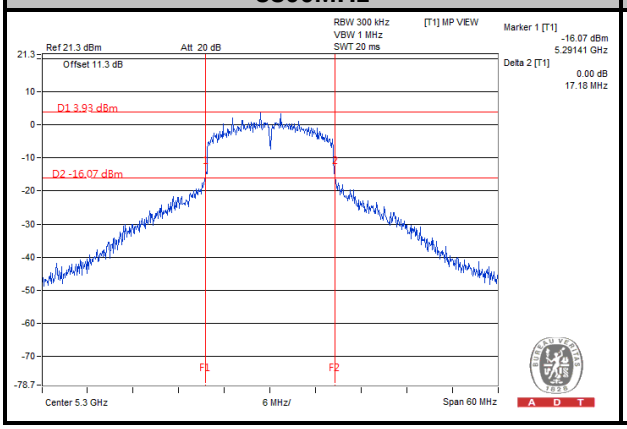
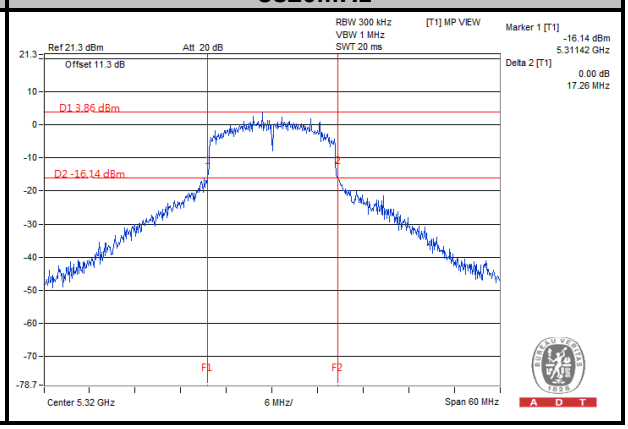
789033 D01 General UNII Test Procedures v01r03

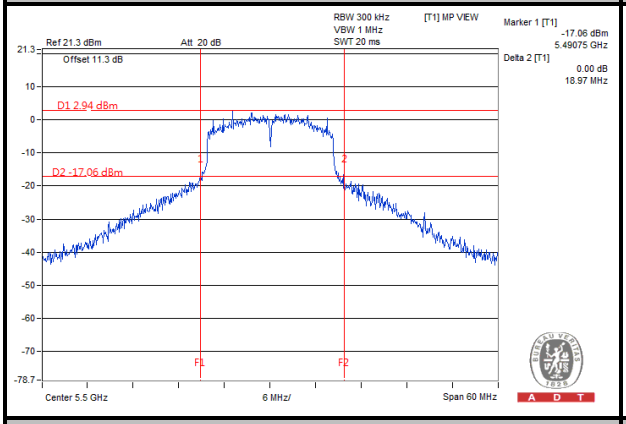
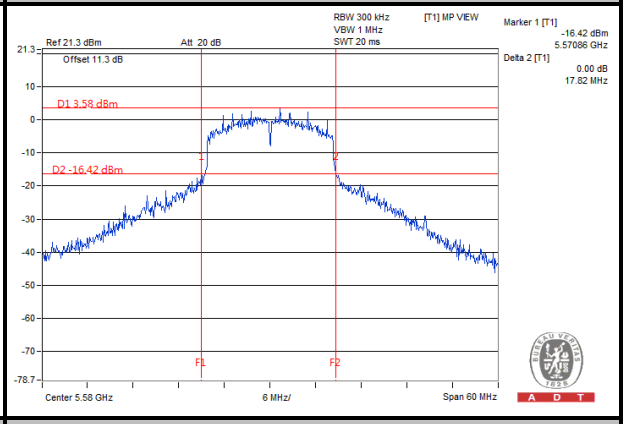
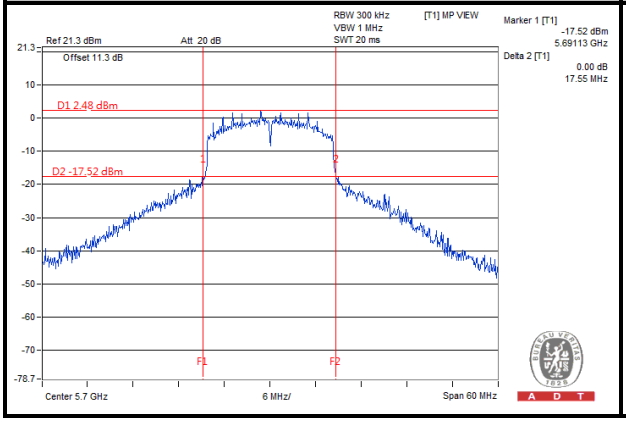
Emission bandwidth

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak
4) Trace mode = max hold.
5) Measurement the maximum width of the emission that is 20dB down from the peak of the emission. Compare this with RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.7.5 TEST RESULTS

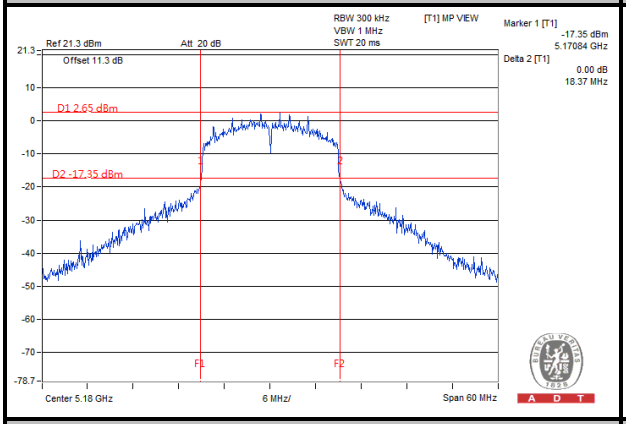
802.11a

5180MHz	5220MHz
	
5240MHz	**5260MHz**
	
5300MHz	**5320MHz**
	

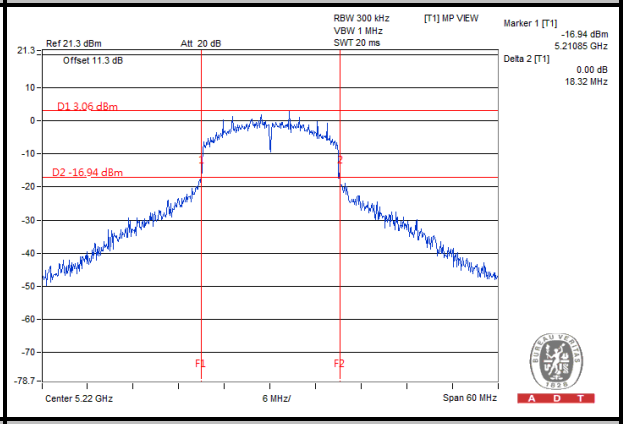
5500MHz	5580MHz
	
5700MHz	
	

802.11n (20MHz)

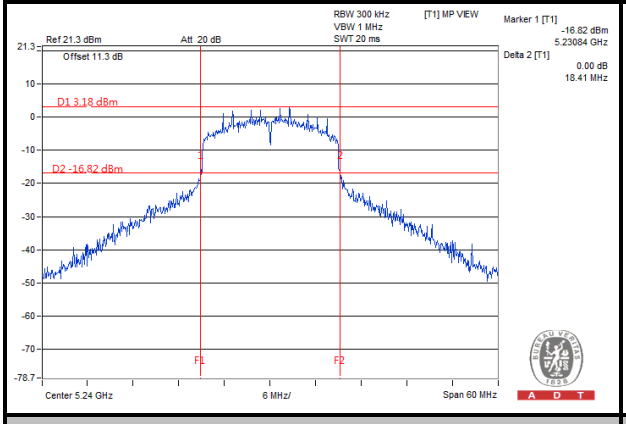
5180MHz



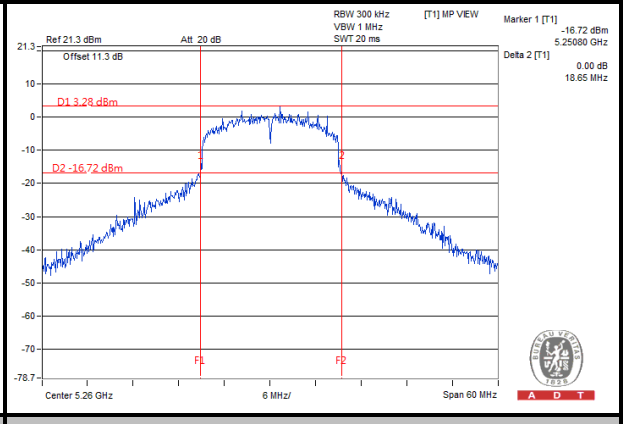
5220MHz



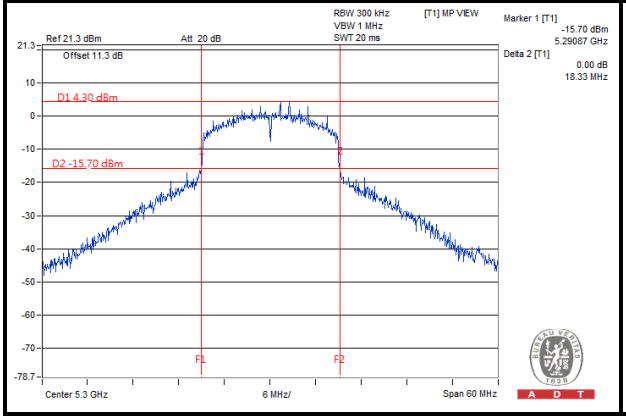
5240MHz



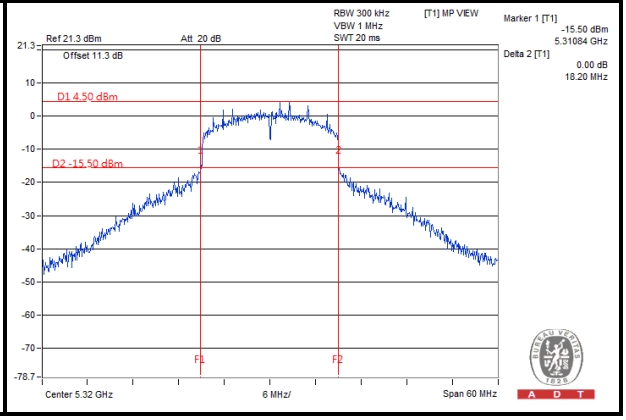
5260MHz

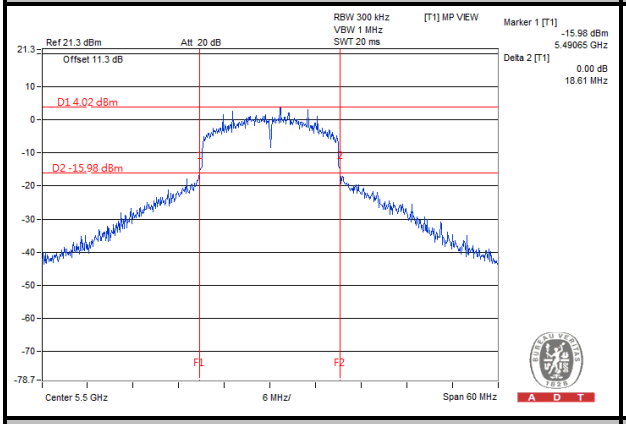
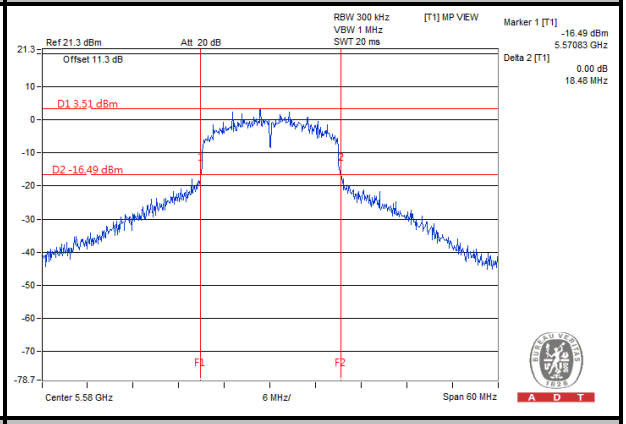
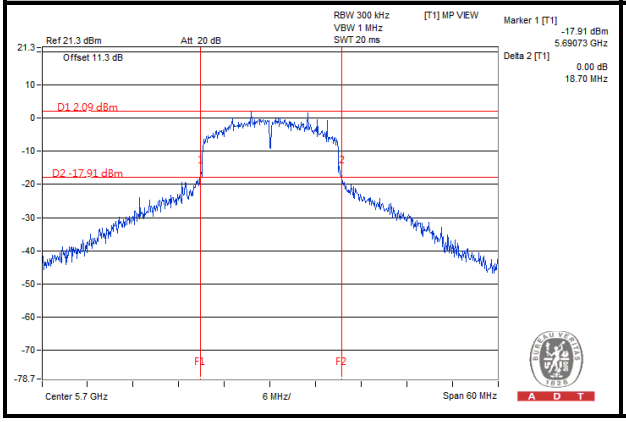


5300MHz



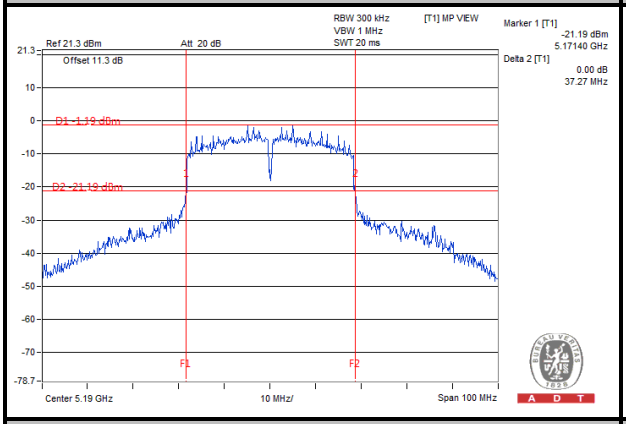
5320MHz



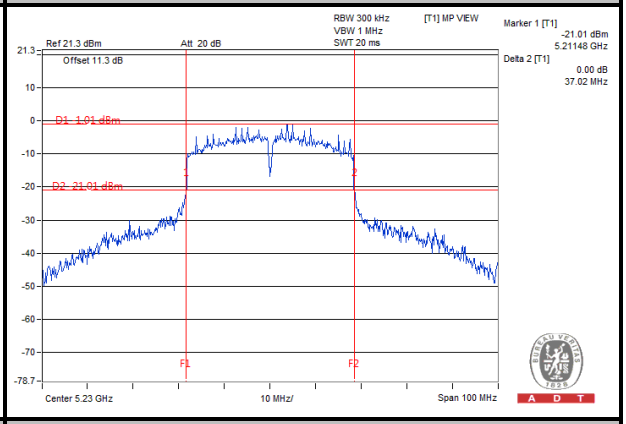
5500MHz	5580MHz
	
5700MHz	
	

802.11n (40MHz)

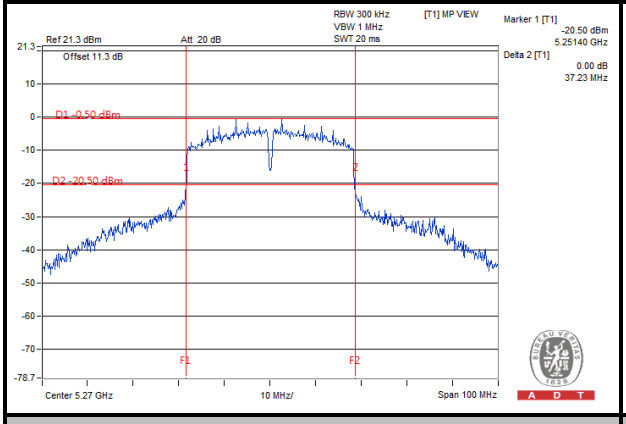
5190MHz



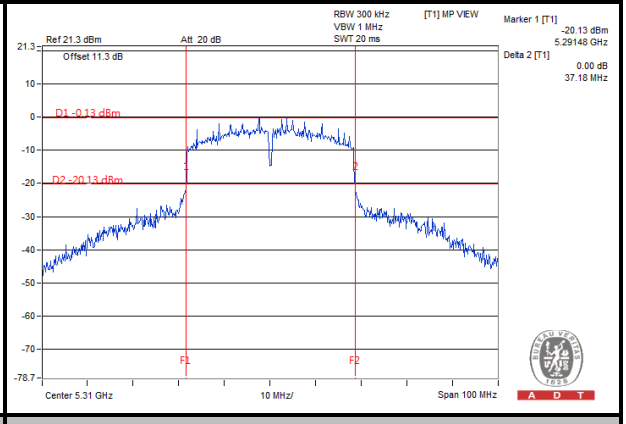
5230MHz



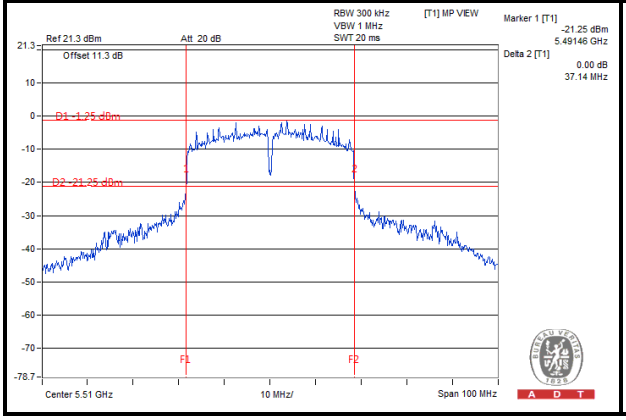
5270MHz



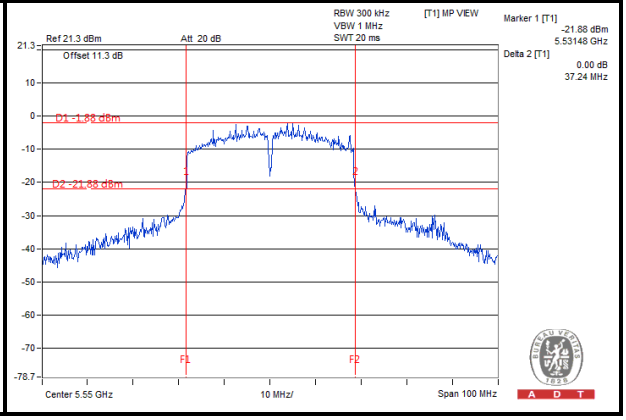
5310MHz

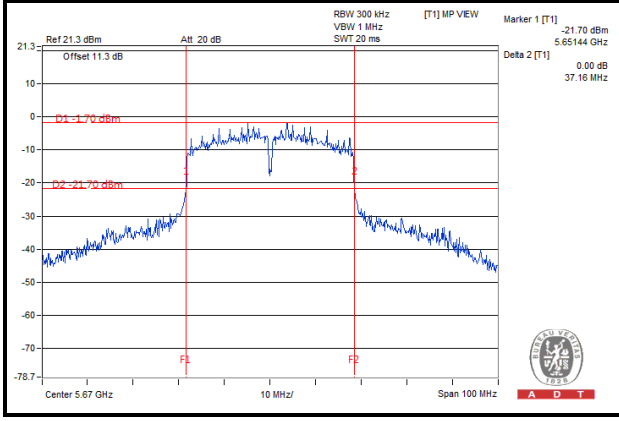


5510MHz



5550MHz



5670MHz	
	

RBW 300 kHz
VBW 1 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-21.70 dBm
5.65144 GHz
Delta 2 [T1]
0.00 dB
37.16 MHz
Ref 21.3 dBm
Att 20 dB
Offset 11.3 dB
21.3
10
0
-10
-20
-30
-40
-50
-60
-70
-78.7
D1 -1.70 dBm
D2 -21.70 dBm
F1
F2
Center 5.67 GHz
10 MHz/
Span 100 MHz

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6. 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.
If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3270892

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

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

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

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

---END---