FCC TEST REPORT

REPORT NO.:	RF111003C18
MODEL NO.:	LPM 1.0 module
FCC ID:	PU5-LPM
RECEIVED:	Jul. 04, 2011
TESTED:	Jul. 27 ~ Aug. 10, 2011
ISSUED:	Oct. 04, 2011

APPLICANT:	Wistron Corporation
ADDRESS:	21F, No. 88, Sec.1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan, R.O.C

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien 244, 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.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Oct. 04, 2011

1. CERTIFICATION

PRODUCT:	802.11 bgn Hybrid Switch Module
MODEL:	LPM 1.0 module
BRAND:	Wistron
APPLICANT:	Wistron Corporation
TESTED:	Jul. 27 ~ Aug. 10, 2011
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC Part 15, Subpart C (Section 15.247)**
	ANSI C63.4-2003
	ANSI C63.10-2009

The above equipment (Model: LPM 1.0 module) 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:** Oct. 04, 2011
Polly Chien / Specialist

APPROVED BY : _____ , **DATE:** Oct. 04, 2011
Gary Chang / Technical Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -17.83dB at 0.490MHz.
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2494.00MHz, 2390MHz & 2483.5MHz.
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is Hirose not a standard connector.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~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	802.11 bgn Hybrid Switch Module
MODEL NO.	LPM 1.0 module
FCC ID	PU5-LPM
POWER SUPPLY	3.3Vdc
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150.0Mbps
OPERATING FREQUENCY	2412 ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
OUTPUT POWER	208.9mW
ANTENNA TYPE	Refer to NOTE as below
ANTENNA CONNECTOR	Hirose
DATA CABLE	NA
I/O PORTS	NA
ACCESSORY DEVICES	NA

NOTE:

1. The EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

2. The following antennas were provided to the EUT:

ITEM	TYPE	MODEL	GAIN (dBi)	CONNECTOR	MANUFACTURER
			2.4GHz		
1	PIFA	PIFA001	3.35	Hirose	WNC
2	Monopole	monopole001	2.17		Yageo

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

3.2 DESCRIPTION OF TEST MODES

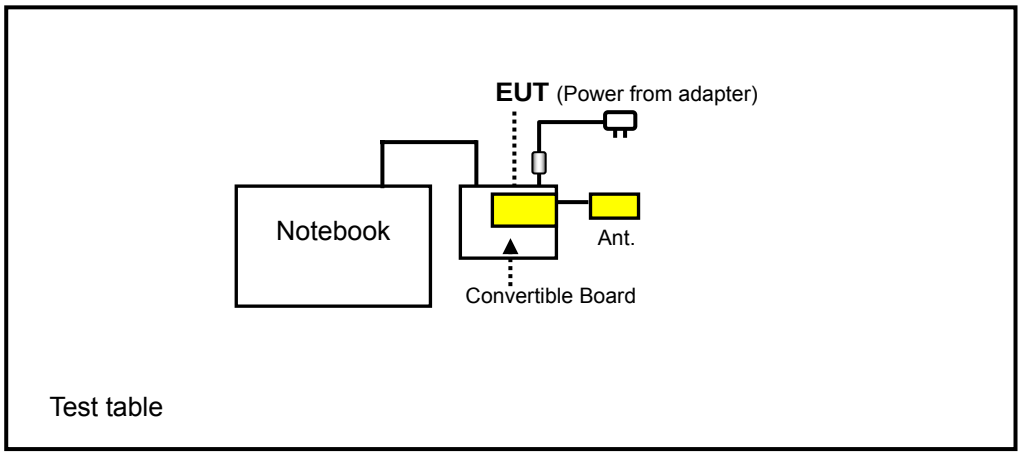
11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

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

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

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

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with PIFA antenna
B	√	√	√	-	EUT with Monopole antenna

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement
NOTE: "-" means no effect.

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	ANT.
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	X
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	Y
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Y
A	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	X
B	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	Y
A	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5	X
B	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5	Y

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	ANT.
A	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	6.5	X
B	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	6.5	Y

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	ANT.
A	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	6.5	X
B	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	6.5	Y

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	ANT.
A	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0	X
B	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0	Y
A	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0	X
B	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0	Y
A	802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5	X
B	802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5	Y
A	802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	13.5	X
B	802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	13.5	Y

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	ANT.
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	X
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Y
A	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	X
A	802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5	Y

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Sun Lin, Frank Wang
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Sun Lin
PLC	25deg. C, 65%RH	120Vac, 60Hz	Bard Wu
APCM	25deg. C, 65%RH	120Vac, 60Hz	Sun Lin

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C (15.247)
ANSI C63.4-2003
ANSI C63.10-2009

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

3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	LENOVO	LNL-1	NA	NA
2	ADAPTER	LENOVO	92P1154	NA	NA
3	CONVERTIBLE BOARD	NA	NA	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	0.4m shielded USB cable w/o core.
2	NA
3	NA

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Items 1-3 were provided by the client for EUT test only.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 19, 2011	Apr. 18, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jan. 06, 2011	Jan. 05, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Apr. 12, 2011	Apr. 11, 2012
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Aug. 30, 2010	Aug. 29, 2011
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 27, 2010	Dec. 26, 2011
Preamplifier Agilent	8449B	3008A01910	Sep. 09, 2010	Sep. 08, 2011
Preamplifier Agilent	8447D	2944A10638	Nov. 03, 2010	Nov. 02, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295013/4 283403/4	Sep 03, 2010	Sep 03, 2011
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 20, 2010	Aug. 19, 2011
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn Table Controller EMCO	2090	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 Chamber 9.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 460141.
5. The IC Site Registration No. is IC 7450F-4.

4.1.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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 lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

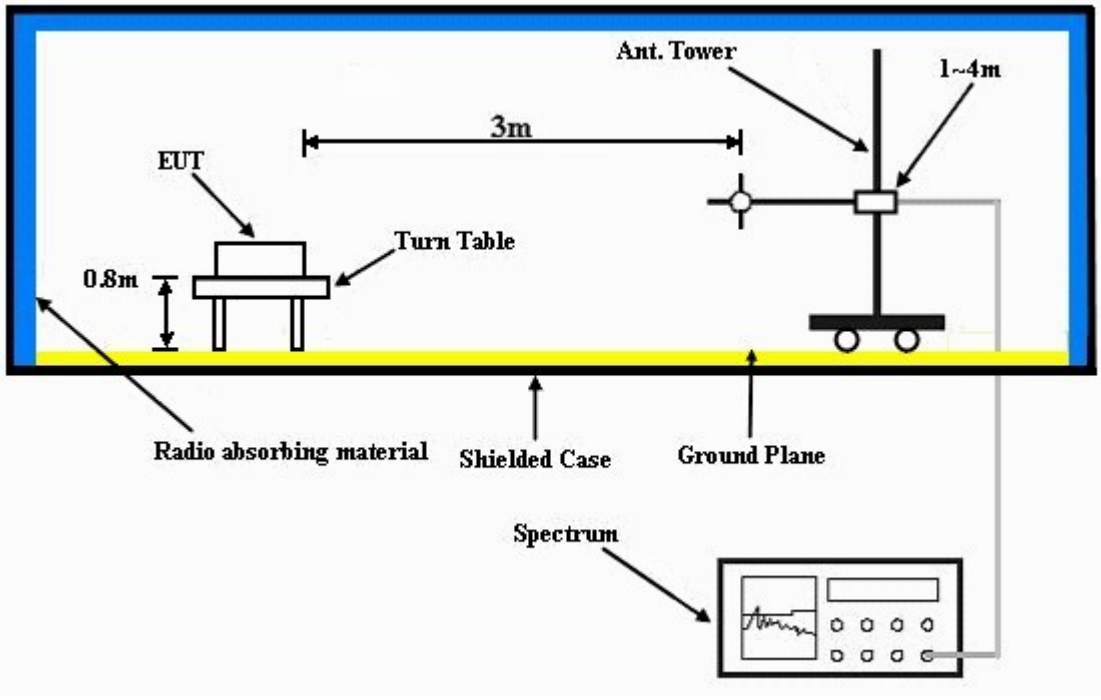
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection 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 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



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

4.1.6 EUT OPERATING CONDITIONS

a. Connected the EUT with a notebook via USB cable and placed on a testing table.
b. The notebook ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
c. The necessary accessories enable the system in full functions.

4.1.7 TEST RESULTS

TEST MODE A

802.11b

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.4 PK	74.0	-15.6	1.02 H	219	26.40	32.00
2	2390.00	46.4 AV	54.0	-7.6	1.02 H	219	14.40	32.00
3	*2412.00	108.0 PK			1.02 H	219	76.00	32.00
4	*2412.00	105.5 AV			1.02 H	219	73.50	32.00
5	2494.00	61.9 PK	74.0	-12.1	1.02 H	219	29.60	32.30
6	**2494.00**	**53.0 AV**	**54.0**	**-1.0**	**1.02 H**	**219**	**20.70**	**32.30**
7	4824.00	49.7 PK	74.0	-24.3	1.27 H	49	11.20	38.50
8	4824.00	42.7 AV	54.0	-11.3	1.27 H	49	4.20	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.7 PK	74.0	-16.3	1.94 V	219	25.70	32.00
2	2390.00	45.0 AV	54.0	-9.0	1.94 V	219	13.00	32.00
3	*2412.00	101.6 PK			1.94 V	219	69.60	32.00
4	*2412.00	99.1 AV			1.94 V	219	67.10	32.00
5	2494.00	59.4 PK	74.0	-14.6	1.82 V	223	27.10	32.30
6	2494.00	47.8 AV	54.0	-6.2	1.82 V	223	15.50	32.30
7	4824.00	52.7 PK	74.0	-21.3	1.46 V	313	14.20	38.50
8	4824.00	49.0 AV	54.0	-5.0	1.46 V	313	10.50	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.6 PK			1.00 H	230	75.50	32.10
2	*2437.00	104.9 AV			1.00 H	230	72.80	32.10
3	4874.00	48.9 PK	74.0	-25.1	1.00 H	24	10.30	38.60
4	4874.00	41.4 AV	54.0	-12.6	1.00 H	24	2.80	38.60
5	7311.00	51.6 PK	74.0	-22.4	1.00 H	125	6.70	44.90
6	7311.00	38.7 AV	54.0	-15.3	1.00 H	125	-6.20	44.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	102.7 PK			1.58 V	192	70.60	32.10
2	*2437.00	100.1 AV			1.58 V	192	68.00	32.10
3	4874.00	50.8 PK	74.0	-23.2	1.00 V	114	12.20	38.60
4	4874.00	44.4 AV	54.0	-9.6	1.00 V	114	5.80	38.60
5	7311.00	52.5 PK	74.0	-21.5	1.00 V	25	7.60	44.90
6	7311.00	39.2 AV	54.0	-14.8	1.00 V	25	-5.70	44.90

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.0 PK			1.00 H	232	75.80	32.20
2	*2462.00	105.6 AV			1.00 H	232	73.40	32.20
3	2483.50	59.4 PK	74.0	-14.6	1.00 H	232	27.10	32.30
4	2483.50	47.3 AV	54.0	-6.7	1.00 H	232	15.00	32.30
5	4924.00	48.8 PK	74.0	-25.2	1.12 H	25	10.00	38.80
6	4924.00	40.1 AV	54.0	-13.9	1.12 H	25	1.30	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.2 PK			1.55 V	195	71.00	32.20
2	*2462.00	100.7 AV			1.55 V	195	68.50	32.20
3	2483.50	57.9 PK	74.0	-16.1	1.55 V	195	25.60	32.30
4	2483.50	45.8 AV	54.0	-8.2	1.55 V	195	13.50	32.30
5	4924.00	49.4 PK	74.0	-24.6	1.00 V	77	10.60	38.80
6	4924.00	42.4 AV	54.0	-11.6	1.00 V	77	3.60	38.80

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11g

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.7 PK	74.0	-10.3	1.02 H	215	31.70	32.00
2	2390.00	49.7 AV	54.0	-4.3	1.02 H	215	17.70	32.00
3	*2412.00	107.8 PK			1.02 H	229	75.80	32.00
4	*2412.00	95.8 AV			1.02 H	229	63.80	32.00
5	4824.00	46.8 PK	74.0	-27.2	1.00 H	12	8.30	38.50
6	4824.00	34.3 AV	54.0	-19.7	1.00 H	12	-4.20	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.00 V	215	27.10	32.00
2	2390.00	46.5 AV	54.0	-7.5	1.00 V	215	14.50	32.00
3	*2412.00	103.0 PK			1.00 V	215	71.00	32.00
4	*2412.00	90.3 AV			1.00 V	215	58.30	32.00
5	4824.00	49.5 PK	74.0	-24.5	1.00 V	185	11.00	38.50
6	4824.00	36.3 AV	54.0	-17.7	1.00 V	185	-2.20	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.7 PK			1.00 H	231	75.60	32.10
2	*2437.00	95.9 AV			1.00 H	231	63.80	32.10
3	4874.00	47.2 PK	74.0	-26.8	1.10 H	18	8.60	38.60
4	4874.00	34.0 AV	54.0	-20.0	1.10 H	18	-4.60	38.60
5	7311.00	51.8 PK	74.0	-22.2	1.00 H	320	6.90	44.90
6	7311.00	39.2 AV	54.0	-14.8	1.00 H	320	-5.70	44.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.2 PK			1.00 V	220	71.10	32.10
2	*2437.00	90.6 AV			1.00 V	220	58.50	32.10
3	4874.00	49.0 PK	74.0	-25.0	1.00 V	192	10.40	38.60
4	4874.00	35.5 AV	54.0	-18.5	1.00 V	192	-3.10	38.60
5	7311.00	52.5 PK	74.0	-21.5	1.05 V	200	7.60	44.90
6	7311.00	39.8 AV	54.0	-14.2	1.05 V	200	-5.10	44.90

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.1 PK			1.00 H	230	74.90	32.20
2	*2462.00	95.1 AV			1.00 H	230	62.90	32.20
3	2483.50	69.2 PK	74.0	-4.8	1.00 H	229	36.90	32.30
4	2483.50	52.0 AV	54.0	-2.0	1.00 H	229	19.70	32.30
5	4924.00	47.0 PK	74.0	-27.0	1.00 H	25	8.20	38.80
6	4924.00	34.5 AV	54.0	-19.5	1.00 H	25	-4.30	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.4 PK			1.56 V	208	70.20	32.20
2	*2462.00	90.9 AV			1.56 V	208	58.70	32.20
3	2483.50	64.4 PK	74.0	-9.6	1.56 V	208	32.10	32.30
4	2483.50	48.5 AV	54.0	-5.5	1.56 V	208	16.20	32.30
5	4924.00	48.5 PK	74.0	-25.5	1.03 V	195	9.70	38.80
6	4924.00	36.0 AV	54.0	-18.0	1.03 V	195	-2.80	38.80

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.9 PK	74.0	-7.1	1.06 H	220	34.90	32.00
2	2390.00	49.9 AV	54.0	-4.1	1.06 H	220	17.90	32.00
3	*2412.00	107.0 PK			1.00 H	228	75.00	32.00
4	*2412.00	95.4 AV			1.00 H	228	63.40	32.00
5	4824.00	47.1 PK	74.0	-26.9	1.00 H	8	8.60	38.50
6	4824.00	34.0 AV	54.0	-20.0	1.00 H	8	-4.50	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.9 PK	74.0	-14.1	1.00 V	215	27.90	32.00
2	2390.00	47.1 AV	54.0	-6.9	1.00 V	215	15.10	32.00
3	*2412.00	101.3 PK			1.00 V	215	69.30	32.00
4	*2412.00	89.8 AV			1.00 V	215	57.80	32.00
5	4824.00	49.1 PK	74.0	-24.9	1.00 V	182	10.60	38.50
6	4824.00	36.3 AV	54.0	-17.7	1.00 V	182	-2.20	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.6 PK			1.00 H	221	75.50	32.10
2	*2437.00	96.0 AV			1.00 H	221	63.90	32.10
3	4874.00	47.3 PK	74.0	-26.7	1.00 H	15	8.70	38.60
4	4874.00	34.5 AV	54.0	-19.5	1.00 H	15	-4.10	38.60
5	7311.00	51.5 PK	74.0	-22.5	1.00 H	255	6.60	44.90
6	7311.00	38.9 AV	54.0	-15.1	1.00 H	255	-6.00	44.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	102.8 PK			1.30 V	205	70.70	32.10
2	*2437.00	91.0 AV			1.30 V	205	58.90	32.10
3	4874.00	48.5 PK	74.0	-25.5	1.00 V	191	9.90	38.60
4	4874.00	36.0 AV	54.0	-18.0	1.00 V	191	-2.60	38.60
5	7311.00	52.2 PK	74.0	-21.8	1.20 V	2	7.30	44.90
6	7311.00	39.5 AV	54.0	-14.5	1.20 V	2	-5.40	44.90

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.0 PK			1.00 H	217	74.80	32.20
2	*2462.00	95.5 AV			1.00 H	217	63.30	32.20
3	2483.50	72.9 PK	74.0	-1.1	1.00 H	218	40.60	32.30
4	**2483.50**	**53.0 AV**	**54.0**	**-1.0**	**1.00 H**	**218**	**20.70**	**32.30**
5	4924.00	46.6 PK	74.0	-27.4	1.00 H	10	7.80	38.80
6	4924.00	33.8 AV	54.0	-20.2	1.00 H	10	-5.00	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.1 PK			1.60 V	222	69.90	32.20
2	*2462.00	90.2 AV			1.60 V	222	58.00	32.20
3	2483.50	67.4 PK	74.0	-6.6	1.60 V	222	35.10	32.30
4	2483.50	48.5 AV	54.0	-5.5	1.60 V	222	16.20	32.30
5	4924.00	48.9 PK	74.0	-25.1	1.00 V	180	10.10	38.80
6	4924.00	36.0 AV	54.0	-18.0	1.00 V	180	-2.80	38.80

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.2 PK	74.0	-6.8	1.02 H	230	35.20	32.00
2	2390.00	51.8 AV	54.0	-2.2	1.02 H	230	19.80	32.00
3	*2422.00	102.0 PK			1.02 H	227	69.90	32.10
4	*2422.00	89.4 AV			1.02 H	227	57.30	32.10
5	4844.00	46.4 PK	74.0	-27.6	1.00 H	323	7.90	38.50
6	4844.00	33.3 AV	54.0	-20.7	1.00 H	323	-5.20	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.0 PK	74.0	-12.0	1.60 V	194	30.00	32.00
2	2390.00	49.0 AV	54.0	-5.0	1.60 V	194	17.00	32.00
3	*2422.00	96.0 PK			1.60 V	194	63.90	32.10
4	*2422.00	83.5 AV			1.60 V	194	51.40	32.10
5	4844.00	47.2 PK	74.0	-26.8	1.00 V	185	8.70	38.50
6	4844.00	33.8 AV	54.0	-20.2	1.00 V	185	-4.70	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.4 PK	74.0	-6.6	1.02 H	227	35.40	32.00
2	2390.00	51.5 AV	54.0	-2.5	1.02 H	227	19.50	32.00
3	*2437.00	106.1 PK			1.03 H	228	74.00	32.10
4	*2437.00	93.1 AV			1.03 H	228	61.00	32.10
5	2483.50	67.5 PK	74.0	-6.5	1.02 H	227	35.20	32.30
6	2483.50	49.6 AV	54.0	-4.4	1.02 H	227	17.30	32.30
7	4874.00	46.8 PK	74.0	-27.2	1.00 H	350	8.20	38.60
8	4874.00	33.6 AV	54.0	-20.4	1.00 H	350	-5.00	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.9 PK	74.0	-12.1	1.60 V	207	29.90	32.00
2	2390.00	47.9 AV	54.0	-6.1	1.60 V	207	15.90	32.00
3	*2437.00	100.6 PK			1.62 V	207	68.50	32.10
4	*2437.00	87.5 AV			1.62 V	207	55.40	32.10
5	2483.50	61.3 PK	74.0	-12.7	1.62 V	207	29.00	32.30
6	2483.50	47.6 AV	54.0	-6.4	1.62 V	207	15.30	32.30
7	4874.00	47.5 PK	74.0	-26.5	1.00 V	188	8.90	38.60
8	4874.00	34.2 AV	54.0	-19.8	1.00 V	188	-4.40	38.60

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Frank Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	101.2 PK			1.00 H	222	69.00	32.20
2	*2452.00	89.0 AV			1.00 H	222	56.80	32.20
3	2483.50	67.3 PK	74.0	-6.7	1.00 H	222	35.00	32.30
4	2483.50	52.0 AV	54.0	-2.0	1.00 H	222	19.70	32.30
5	4904.00	46.5 PK	74.0	-27.5	1.00 H	345	7.80	38.70
6	4904.00	33.4 AV	54.0	-20.6	1.00 H	345	-5.30	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	95.5 PK			1.60 V	206	63.30	32.20
2	*2452.00	83.1 AV			1.60 V	206	50.90	32.20
3	2483.50	63.0 PK	74.0	-11.0	1.60 V	206	30.70	32.30
4	2483.50	49.4 AV	54.0	-4.6	1.60 V	206	17.10	32.30
5	4904.00	47.4 PK	74.0	-26.6	1.00 V	192	8.70	38.70
6	4904.00	34.0 AV	54.0	-20.0	1.00 V	192	-4.70	38.70

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

TEST MODE B

802.11b

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	54.1 PK	74.0	-19.9	1.00 H	181	22.10	32.00
2	2390.00	44.2 AV	54.0	-9.8	1.00 H	181	12.20	32.00
3	*2412.00	102.9 PK			1.00 H	181	70.90	32.00
4	*2412.00	99.2 AV			1.00 H	181	67.20	32.00
5	2494.00	59.0 PK	74.0	-15.0	1.00 H	212	26.70	32.30
6	2494.00	50.2 AV	54.0	-3.8	1.00 H	212	17.90	32.30
7	4824.00	55.6 PK	74.0	-18.4	1.19 H	235	17.10	38.50
8	4824.00	52.7 AV	54.0	-1.3	1.19 H	235	14.20	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.5 PK	74.0	-17.5	1.66 V	181	24.50	32.00
2	2390.00	44.5 AV	54.0	-9.5	1.66 V	181	12.50	32.00
3	*2412.00	106.5 PK			1.66 V	181	74.50	32.00
4	*2412.00	103.0 AV			1.66 V	181	71.00	32.00
5	2494.00	61.4 PK	74.0	-12.6	1.08 V	226	29.10	32.30
6	**2494.00**	**53.0 AV**	**54.0**	**-1.0**	**1.08 V**	**226**	**20.70**	**32.30**
7	4824.00	54.0 PK	74.0	-20.0	1.00 V	177	15.50	38.50
8	4824.00	50.6 AV	54.0	-3.4	1.00 V	177	12.10	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	102.3 PK			1.00 H	211	70.20	32.10
2	*2437.00	98.5 AV			1.00 H	211	66.40	32.10
3	4874.00	60.2 PK	74.0	-13.8	1.08 H	47	21.60	38.60
4	4874.00	51.8 AV	54.0	-2.2	1.08 H	47	13.20	38.60
5	7311.00	49.3 PK	74.0	-24.7	1.36 H	227	4.40	44.90
6	7311.00	40.4 AV	54.0	-13.6	1.36 H	227	-4.50	44.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	105.9 PK			1.35 V	222	73.80	32.10
2	*2437.00	102.0 AV			1.35 V	222	69.90	32.10
3	4874.00	51.8 PK	74.0	-22.2	1.29 V	236	13.20	38.60
4	4874.00	46.5 AV	54.0	-7.5	1.29 V	236	7.90	38.60
5	7311.00	52.3 PK	74.0	-21.7	1.07 V	135	7.40	44.90
6	7311.00	41.2 AV	54.0	-12.8	1.07 V	135	-3.70	44.90

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.5 PK			1.00 H	214	70.30	32.20
2	*2462.00	99.0 AV			1.00 H	214	66.80	32.20
3	2483.50	61.0 PK	74.0	-13.0	1.00 H	215	28.70	32.30
4	2483.50	48.1 AV	54.0	-5.9	1.00 H	215	15.80	32.30
5	4924.00	60.4 PK	74.0	-13.6	1.03 H	233	21.60	38.80
6	4924.00	52.1 AV	54.0	-1.9	1.03 H	233	13.30	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.2 PK			1.20 V	235	74.00	32.20
2	*2462.00	102.3 AV			1.20 V	235	70.10	32.20
3	2483.50	57.5 PK	74.0	-16.5	1.20 V	235	25.20	32.30
4	2483.50	47.0 AV	54.0	-7.0	1.20 V	235	14.70	32.30
5	4924.00	52.8 PK	74.0	-21.2	1.05 V	177	14.00	38.80
6	4924.00	41.5 AV	54.0	-12.5	1.05 V	177	2.70	38.80

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11g

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.9 PK	74.0	-10.1	1.00 H	206	31.90	32.00
2	2390.00	48.7 AV	54.0	-5.3	1.00 H	206	16.70	32.00
3	*2412.00	100.3 PK			1.00 H	206	68.30	32.00
4	*2412.00	89.8 AV			1.00 H	206	57.80	32.00
5	4824.00	49.3 PK	74.0	-24.7	1.51 H	236	10.80	38.50
6	4824.00	36.9 AV	54.0	-17.1	1.51 H	236	-1.60	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.1 PK	74.0	-8.9	1.38 V	223	33.10	32.00
2	2390.00	51.6 AV	54.0	-2.4	1.38 V	223	19.60	32.00
3	*2412.00	104.5 PK			1.38 V	223	72.50	32.00
4	*2412.00	92.9 AV			1.38 V	223	60.90	32.00
5	4824.00	49.0 PK	74.0	-25.0	1.00 V	214	10.50	38.50
6	4824.00	35.2 AV	54.0	-18.8	1.00 V	214	-3.30	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.0 PK			1.02 H	232	67.90	32.10
2	*2437.00	89.6 AV			1.02 H	232	57.50	32.10
3	4874.00	45.8 PK	74.0	-28.2	1.02 H	225	7.20	38.60
4	4874.00	34.2 AV	54.0	-19.8	1.02 H	225	-4.40	38.60
5	7311.00	50.2 PK	74.0	-23.8	1.07 H	237	5.30	44.90
6	7311.00	38.8 AV	54.0	-15.2	1.07 H	237	-6.10	44.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.0 PK			1.64 V	222	71.90	32.10
2	*2437.00	92.7 AV			1.64 V	222	60.60	32.10
3	4874.00	46.5 PK	74.0	-27.5	1.05 V	98	7.90	38.60
4	4874.00	35.0 AV	54.0	-19.0	1.05 V	98	-3.60	38.60
5	7311.00	50.3 PK	74.0	-23.7	1.43 V	228	5.40	44.90
6	7311.00	40.8 AV	54.0	-13.2	1.43 V	228	-4.10	44.90

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.8 PK			1.00 H	214	68.60	32.20
2	*2462.00	90.3 AV			1.00 H	214	58.10	32.20
3	2483.50	64.2 PK	74.0	-9.8	1.01 H	212	31.90	32.30
4	2483.50	49.0 AV	54.0	-5.0	1.01 H	212	16.70	32.30
5	4924.00	49.7 PK	74.0	-24.3	1.53 H	252	10.90	38.80
6	4924.00	37.2 AV	54.0	-16.8	1.53 H	252	-1.60	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.6 PK			1.06 V	213	72.40	32.20
2	*2462.00	93.1 AV			1.06 V	213	60.90	32.20
3	2483.50	65.2 PK	74.0	-8.8	1.06 V	213	32.90	32.30
4	2483.50	50.8 AV	54.0	-3.2	1.06 V	213	18.50	32.30
5	4924.00	49.7 PK	74.0	-24.3	1.02 V	217	10.90	38.80
6	4924.00	35.8 AV	54.0	-18.2	1.02 V	217	-3.00	38.80

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.4 PK	74.0	-8.6	1.00 H	183	33.40	32.00
2	2390.00	49.5 AV	54.0	-4.5	1.00 H	183	17.50	32.00
3	*2412.00	99.7 PK			1.00 H	183	67.70	32.00
4	*2412.00	88.9 AV			1.00 H	183	56.90	32.00
5	4824.00	49.8 PK	74.0	-24.2	1.52 H	240	11.30	38.50
6	4824.00	36.8 AV	54.0	-17.2	1.52 H	240	-1.70	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.1 PK	74.0	-4.9	1.39 V	227	37.10	32.00
2	2390.00	52.9 AV	54.0	-1.1	1.39 V	227	20.90	32.00
3	*2412.00	105.3 PK			1.12 V	228	73.30	32.00
4	*2412.00	94.4 AV			1.12 V	228	62.40	32.00
5	4824.00	48.5 PK	74.0	-25.5	1.28 V	217	10.00	38.50
6	4824.00	35.3 AV	54.0	-18.7	1.28 V	217	-3.20	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	99.4 PK			1.08 H	215	67.30	32.10
2	*2437.00	88.3 AV			1.08 H	215	56.20	32.10
3	4874.00	44.5 PK	74.0	-29.5	1.32 H	47	5.90	38.60
4	4874.00	33.4 AV	54.0	-20.6	1.32 H	47	-5.20	38.60
5	7311.00	52.5 PK	74.0	-21.5	1.47 H	203	7.60	44.90
6	7311.00	41.3 AV	54.0	-12.7	1.47 H	203	-3.60	44.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.1 PK			1.64 V	223	72.00	32.10
2	*2437.00	93.2 AV			1.64 V	223	61.10	32.10
3	4874.00	46.5 PK	74.0	-27.5	1.18 V	76	7.90	38.60
4	4874.00	33.4 AV	54.0	-20.6	1.18 V	76	-5.20	38.60
5	7311.00	51.9 PK	74.0	-22.1	1.58 V	77	7.00	44.90
6	7311.00	41.3 AV	54.0	-12.7	1.58 V	77	-3.60	44.90

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	99.8 PK			1.04 H	223	67.60	32.20
2	*2462.00	89.1 AV			1.04 H	223	56.90	32.20
3	2483.50	65.2 PK	74.0	-8.8	1.02 H	247	32.90	32.30
4	2483.50	49.9 AV	54.0	-4.1	1.02 H	247	17.60	32.30
5	4924.00	45.8 PK	74.0	-28.2	1.47 H	257	7.00	38.80
6	4924.00	33.8 AV	54.0	-20.2	1.47 H	257	-5.00	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.2 PK			1.09 V	228	73.00	32.20
2	*2462.00	94.0 AV			1.09 V	228	61.80	32.20
3	2483.50	68.1 PK	74.0	-5.9	1.09 V	228	35.80	32.30
4	2483.50	52.3 AV	54.0	-1.7	1.09 V	228	20.00	32.30
5	4924.00	46.8 PK	74.0	-27.2	1.42 V	337	8.00	38.80
6	4924.00	35.2 AV	54.0	-18.8	1.42 V	337	-3.60	38.80

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.0 PK	74.0	-9.0	1.00 H	181	33.00	32.00
2	2390.00	51.7 AV	54.0	-2.3	1.00 H	181	19.70	32.00
3	*2422.00	95.7 PK			1.00 H	181	63.60	32.10
4	*2422.00	84.2 AV			1.00 H	181	52.10	32.10
5	4844.00	44.6 PK	74.0	-29.4	1.51 H	268	6.10	38.50
6	4844.00	34.5 AV	54.0	-19.5	1.51 H	268	-4.00	38.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.3 PK	74.0	-5.7	1.12 V	170	36.30	32.00
2	**2390.00**	**53.0 AV**	**54.0**	**-1.0**	**1.12 V**	**170**	**21.00**	**32.00**
3	*2422.00	99.5 PK			1.04 V	93	67.40	32.10
4	*2422.00	88.3 AV			1.04 V	93	56.20	32.10
5	4844.00	46.7 PK	74.0	-27.3	1.07 V	62	8.20	38.50
6	4844.00	35.8 AV	54.0	-18.2	1.07 V	62	-2.70	38.50

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.6 PK	74.0	-16.4	1.00 H	184	25.60	32.00
2	2390.00	48.8 AV	54.0	-5.2	1.00 H	184	16.80	32.00
3	*2437.00	99.1 PK			1.00 H	184	67.00	32.10
4	*2437.00	87.7 AV			1.00 H	184	55.60	32.10
5	2483.50	59.0 PK	74.0	-15.0	1.00 H	184	26.70	32.30
6	2483.50	49.5 AV	54.0	-4.5	1.00 H	184	17.20	32.30
7	4874.00	45.3 PK	74.0	-28.7	1.08 H	223	6.70	38.60
8	4874.00	34.2 AV	54.0	-19.8	1.08 H	223	-4.40	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.8 PK	74.0	-7.2	1.05 V	83	34.80	32.00
2	2390.00	52.1 AV	54.0	-1.9	1.05 V	83	20.10	32.00
3	*2437.00	103.3 PK			1.05 V	162	71.20	32.10
4	*2437.00	92.2 AV			1.05 V	162	60.10	32.10
5	2483.50	63.6 PK	74.0	-10.4	1.04 V	232	31.30	32.30
6	2483.50	50.8 AV	54.0	-3.2	1.04 V	232	18.50	32.30
7	4874.00	46.7 PK	74.0	-27.3	1.32 V	85	8.10	38.60
8	4874.00	35.7 AV	54.0	-18.3	1.32 V	85	-2.90	38.60

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	95.0 PK			1.00 H	185	62.80	32.20
2	*2452.00	83.5 AV			1.00 H	185	51.30	32.20
3	2483.50	59.5 PK	74.0	-14.5	1.00 H	185	27.20	32.30
4	2483.50	48.0 AV	54.0	-6.0	1.00 H	185	15.70	32.30
5	4904.00	44.7 PK	74.0	-29.3	1.32 H	272	6.00	38.70
6	4904.00	34.5 AV	54.0	-19.5	1.32 H	272	-4.20	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	98.8 PK			1.12 V	212	66.60	32.20
2	*2452.00	87.6 AV			1.12 V	212	55.40	32.20
3	2483.50	64.6 PK	74.0	-9.4	1.12 V	212	32.30	32.30
4	**2483.50**	**53.0 AV**	**54.0**	**-1.0**	**1.12 V**	**212**	**20.70**	**32.30**
5	4904.00	46.6 PK	74.0	-27.4	1.05 V	77	7.90	38.70
6	4904.00	35.8 AV	54.0	-18.2	1.05 V	77	-2.90	38.70

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

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

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

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

BELOW 1GHz WORST-CASE DATA：802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Sun Lin
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	20.2 QP	43.5	-23.3	2.00 H	148	11.70	8.50
2	164.06	26.6 QP	43.5	-16.9	1.50 H	238	12.80	13.80
3	296.27	18.7 QP	46.0	-27.3	1.00 H	157	4.20	14.50
4	391.54	20.5 QP	46.0	-25.5	1.50 H	31	3.70	16.80
5	432.37	22.7 QP	46.0	-23.3	1.50 H	217	4.90	17.80
6	545.14	26.4 QP	46.0	-19.6	1.00 H	223	5.60	20.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	25.3 QP	43.5	-18.2	1.00 V	10	16.80	8.50
2	162.11	25.6 QP	43.5	-17.9	1.00 V	331	11.40	14.20
3	189.33	24.7 QP	43.5	-18.8	1.00 V	55	13.90	10.80
4	243.77	21.9 QP	46.0	-24.1	2.00 V	55	9.60	12.30
5	296.27	24.8 QP	46.0	-21.2	1.00 V	82	10.30	14.50
6	350.71	24.4 QP	46.0	-21.6	1.00 V	292	8.60	15.80

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Sun Lin
TEST MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.51	35.4 QP	40.0	-4.6	2.00 H	16	22.40	13.00
2	154.33	31.5 QP	43.5	-12.0	1.50 H	259	18.20	13.30
3	265.16	30.2 QP	46.0	-15.8	1.50 H	67	17.00	13.20
4	335.15	29.7 QP	46.0	-16.3	1.25 H	199	14.20	15.50
5	480.97	32.3 QP	46.0	-13.7	1.50 H	85	13.20	19.10
6	628.74	32.1 QP	46.0	-13.9	1.50 H	49	9.70	22.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	61.01	30.7 QP	40.0	-9.3	1.50 V	16	18.00	12.70
2	162.11	29.7 QP	43.5	-13.8	1.50 V	358	15.50	14.20
3	245.72	31.1 QP	46.0	-14.9	2.00 V	139	18.70	12.40
4	309.88	28.3 QP	46.0	-17.7	1.25 V	130	13.40	14.90
5	700.68	32.3 QP	46.0	-13.7	2.00 V	10	9.10	23.20
6	852.33	40.9 QP	46.0	-5.1	1.00 V	109	15.60	25.30

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

4.2 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	100291	Nov. 30, 2010	Nov. 29, 2011
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 30, 2010	Dec. 29, 2011
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jul. 07, 2011	Jul. 06, 2012
LISN ROHDE & SCHWARZ	ESH3-Z5	835239/001	Feb. 22, 2011	Feb. 21, 2012
Software ADT	ADT_Cond_ V7.3.7	NA	NA	NA

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

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

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.

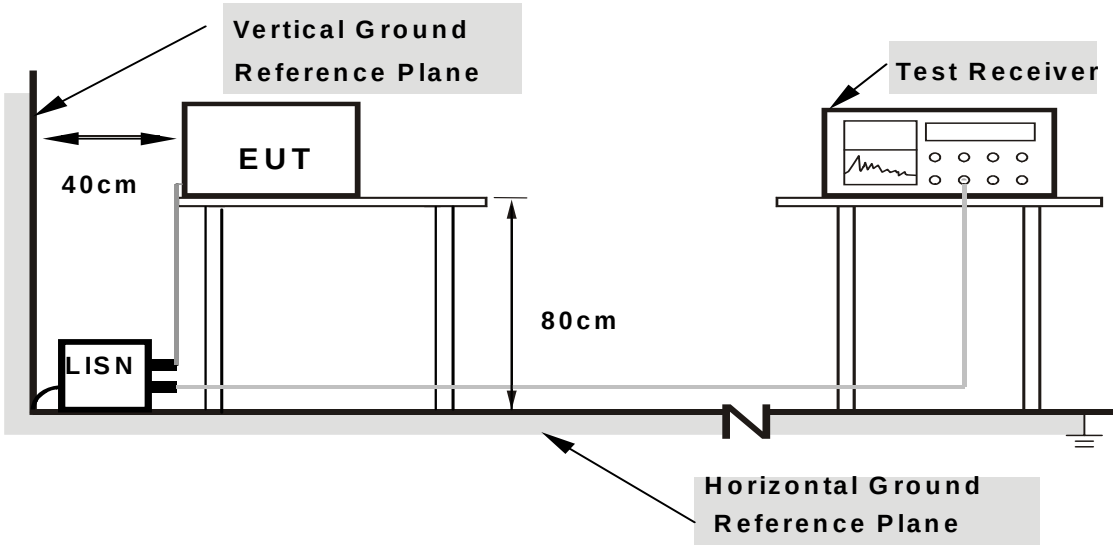
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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 4.1.6.

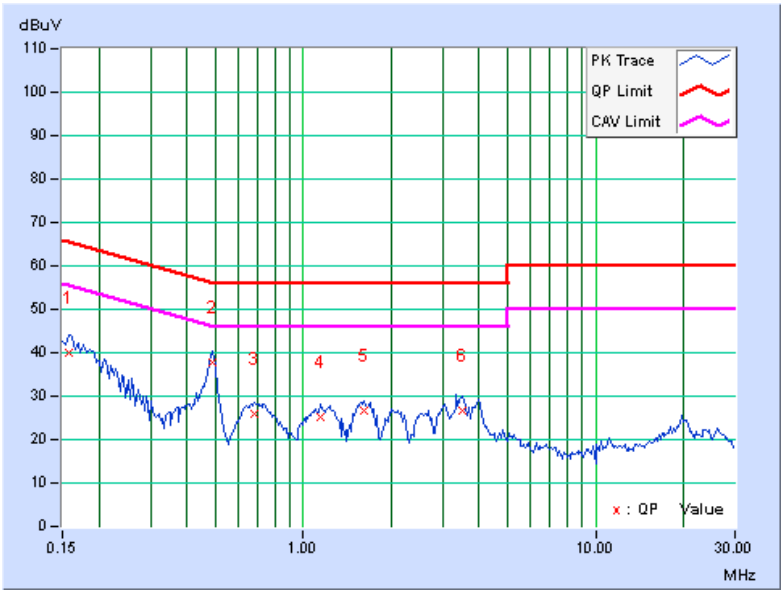
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA：802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

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	0.158	0.12	39.86	-	39.98	-	65.58	55.58	-25.60	-
2	0.486	0.13	37.63	-	37.76	-	56.24	46.24	-18.48	-
3	0.681	0.14	25.83	-	25.97	-	56.00	46.00	-30.03	-
4	1.152	0.16	24.85	-	25.01	-	56.00	46.00	-30.99	-
5	1.617	0.18	26.55	-	26.73	-	56.00	46.00	-29.27	-
6	3.523	0.28	26.32	-	26.60	-	56.00	46.00	-29.40	-

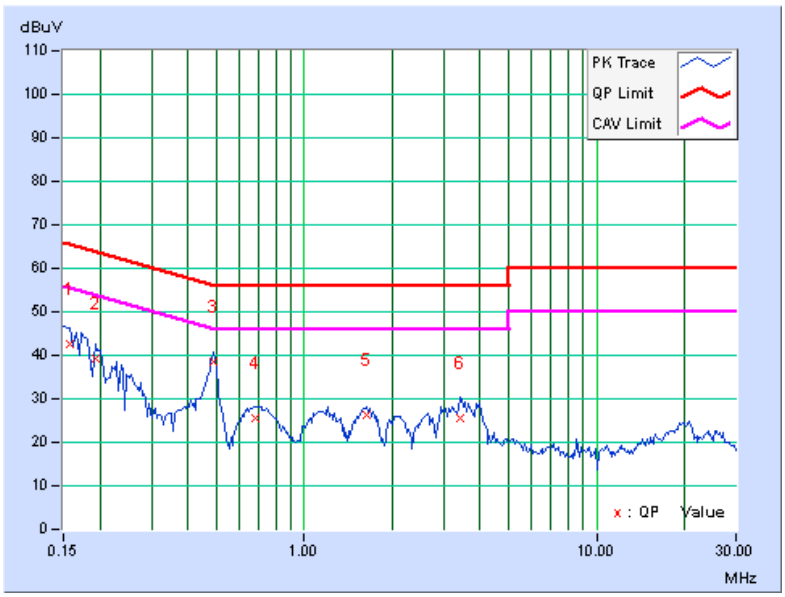
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

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	0.158	0.13	42.33	-	42.46	-	65.58	55.58	-23.12	-
2	0.193	0.13	39.03	-	39.16	-	63.91	53.91	-24.75	-
3	**0.490**	**0.15**	**38.19**	**-**	**38.34**	**-**	**56.17**	**46.17**	**-17.83**	**-**
4	0.677	0.16	25.42	-	25.58	-	56.00	46.00	-30.42	-
5	1.637	0.19	26.02	-	26.21	-	56.00	46.00	-29.79	-
6	3.414	0.28	25.28	-	25.56	-	56.00	46.00	-30.44	-

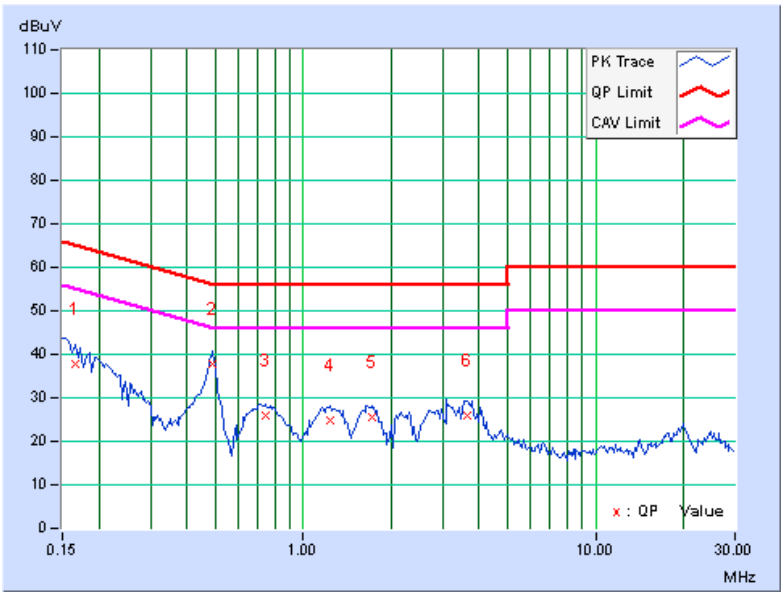
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	B		

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	0.166	0.12	37.56	-	37.68	-	65.18	55.18	-27.50	-
2	0.490	0.13	37.82	-	37.95	-	56.17	46.17	-18.22	-
3	0.744	0.14	25.89	-	26.03	-	56.00	46.00	-29.97	-
4	1.234	0.17	24.69	-	24.86	-	56.00	46.00	-31.14	-
5	1.723	0.18	25.52	-	25.70	-	56.00	46.00	-30.30	-
6	3.645	0.29	25.64	-	25.93	-	56.00	46.00	-30.07	-

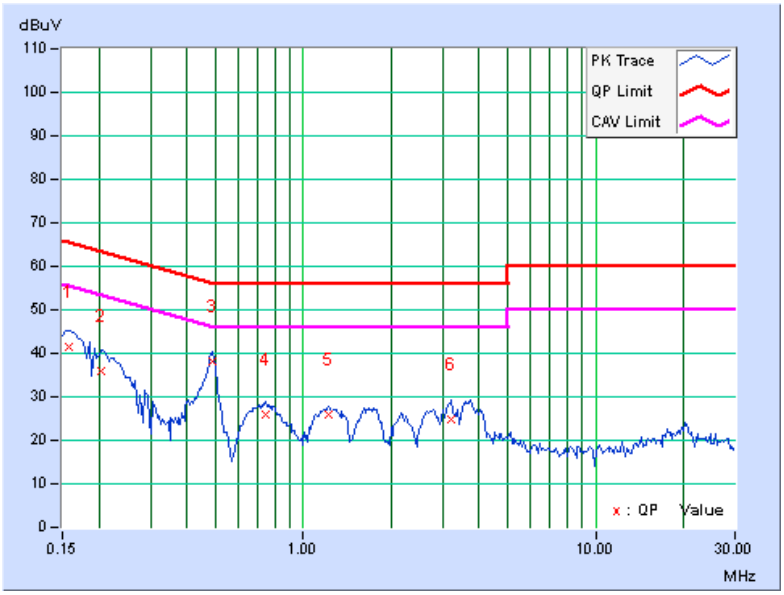
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	B		

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	0.158	0.13	41.45	-	41.58	-	65.58	55.58	-24.00	-
2	0.205	0.13	35.71	-	35.84	-	63.42	53.42	-27.58	-
3	0.486	0.15	38.10	-	38.25	-	56.24	46.24	-17.99	-
4	0.744	0.16	25.69	-	25.85	-	56.00	46.00	-30.15	-
5	1.227	0.18	25.57	-	25.75	-	56.00	46.00	-30.25	-
6	3.199	0.27	24.49	-	24.76	-	56.00	46.00	-31.24	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100039	Feb. 23, 2011	Feb. 22, 2012

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

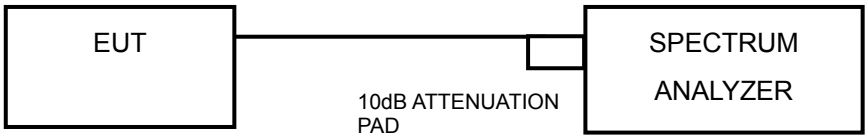
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

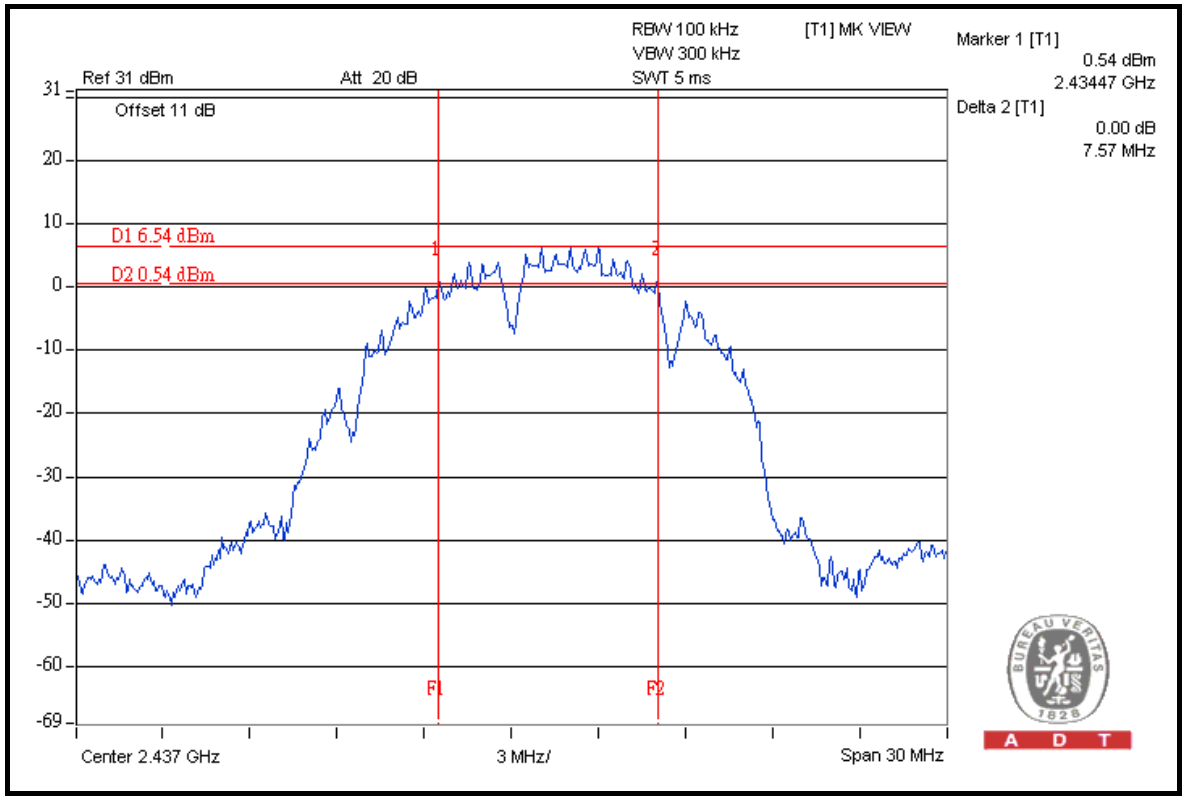
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	6.69	0.5	PASS
6	2437	7.57	0.5	PASS
11	2462	6.67	0.5	PASS

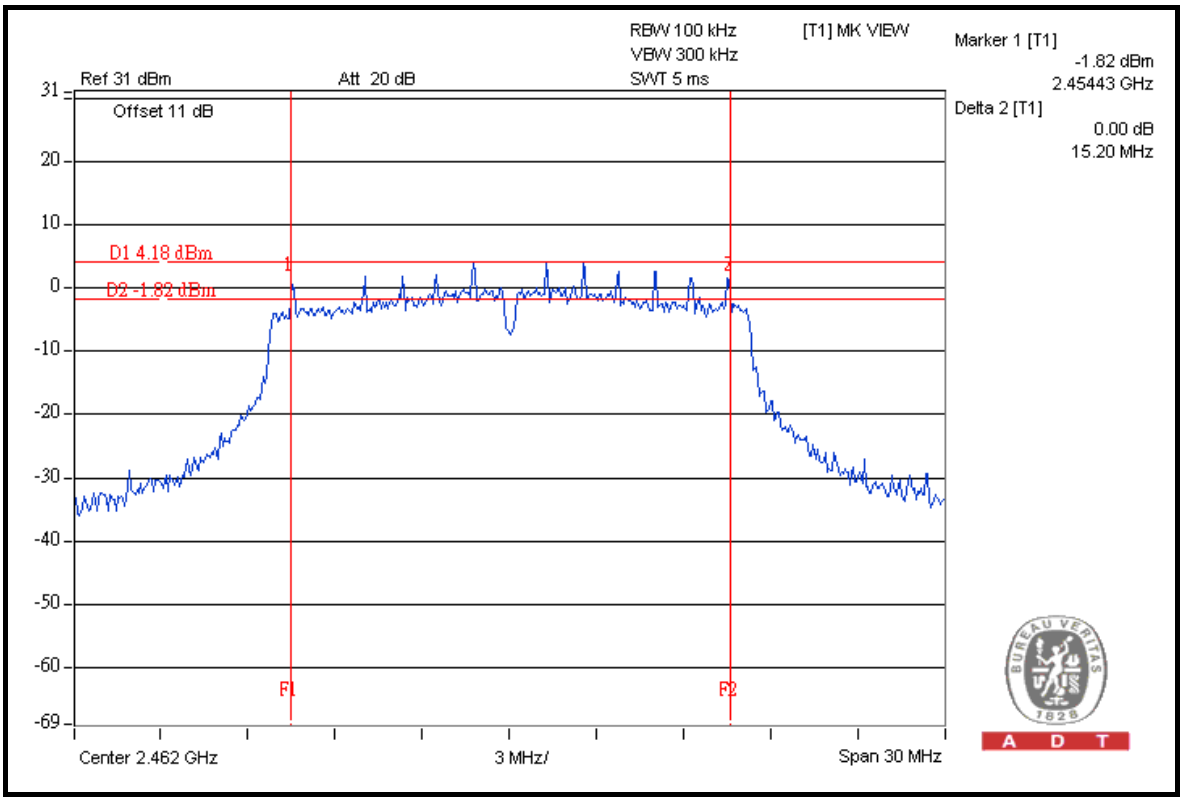
CH 6



802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	13.97	0.5	PASS
6	2437	15.14	0.5	PASS
11	2462	15.20	0.5	PASS

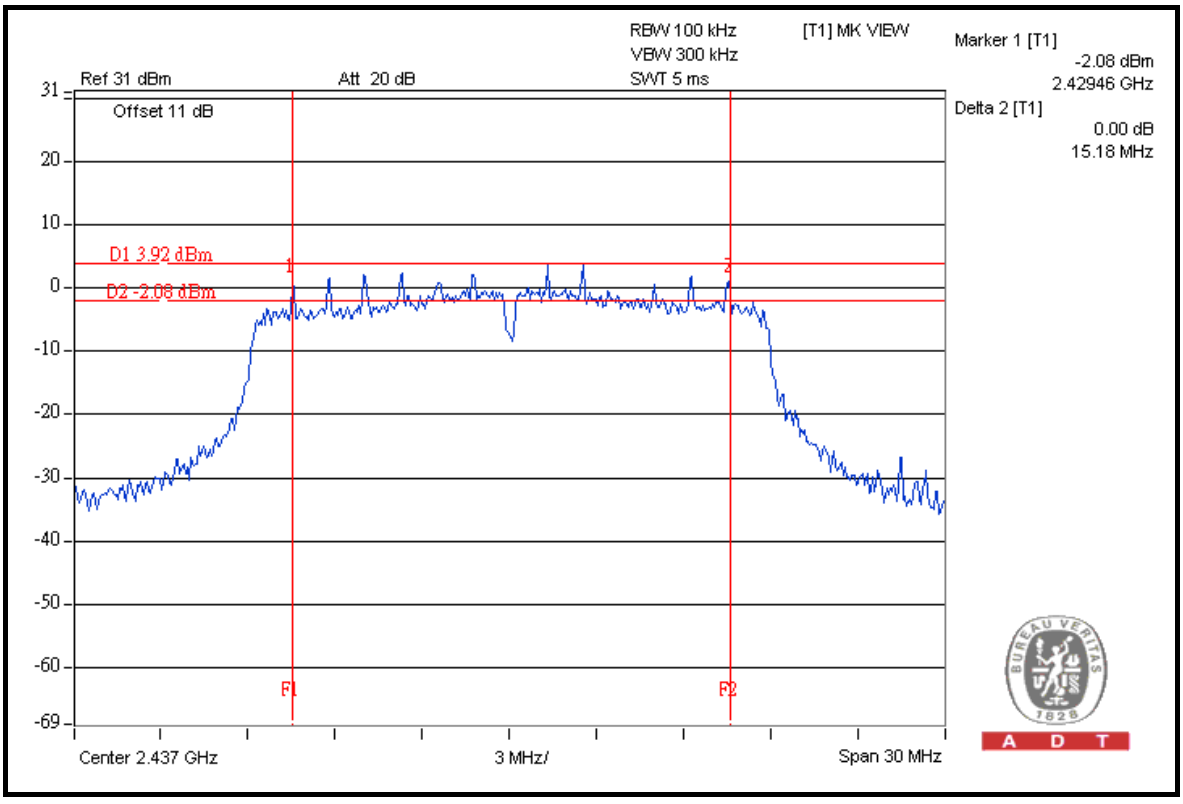
CH 11



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.11	0.5	PASS
6	2437	15.18	0.5	PASS
11	2462	13.93	0.5	PASS

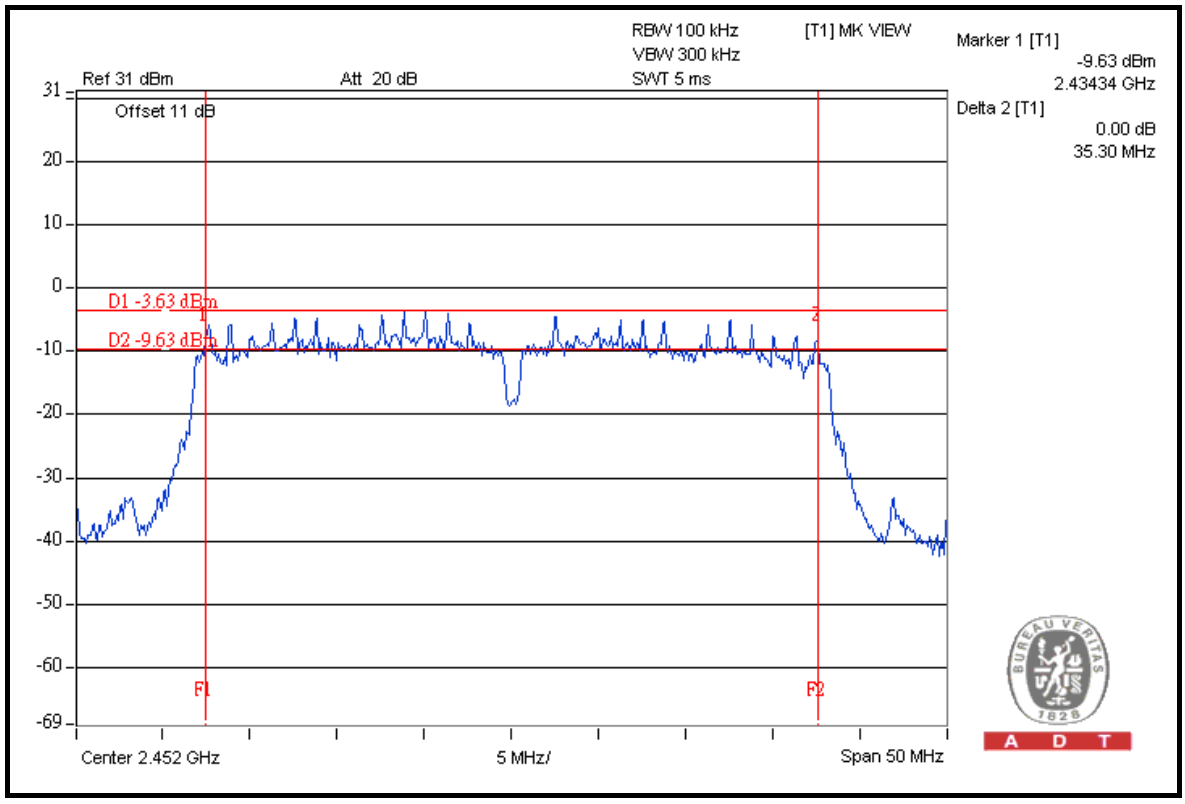
CH 6



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2422	35.23	0.5	PASS
4	2437	35.27	0.5	PASS
7	2452	35.30	0.5	PASS

CH 7



4.4 MAXIMUM OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
High Speed Peak Power Meter	ML2495A	0842014	Apr. 26, 2011	Apr. 25, 2012
Power Sensor	MA2411B	0738404	Apr. 26, 2011	Apr. 25, 2012

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Measurement Bandwidth of ML2495A is 65MHz greater than 6dB bandwidth of emission.

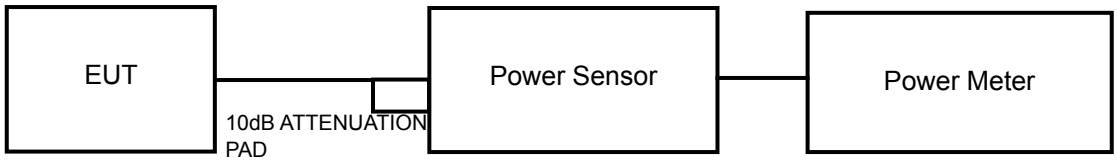
4.4.3 TEST PROCEDURES

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

4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.4.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2412	67.6	18.3	30	PASS
6	2437	58.9	17.7	30	PASS
11	2462	56.2	17.5	30	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2412	186.2	22.7	30	PASS
6	2437	204.2	23.1	30	PASS
11	2462	195.0	22.9	30	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2412	204.2	23.1	30	PASS
6	2437	**208.9**	23.2	30	PASS
11	2462	190.5	22.8	30	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER OUTPUT (mW)	POWER OUTPUT (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2422	51.3	17.1	30	PASS
4	2437	141.3	21.5	30	PASS
7	2452	46.8	16.7	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100039	Feb. 23, 2011	Feb. 22, 2012

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

4.5.3 TEST PROCEDURE

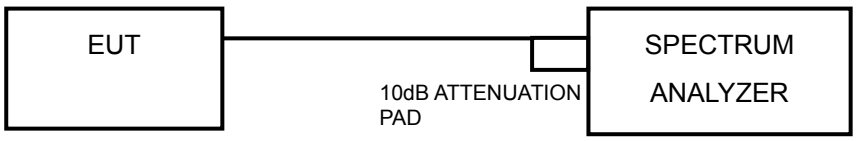
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 10kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

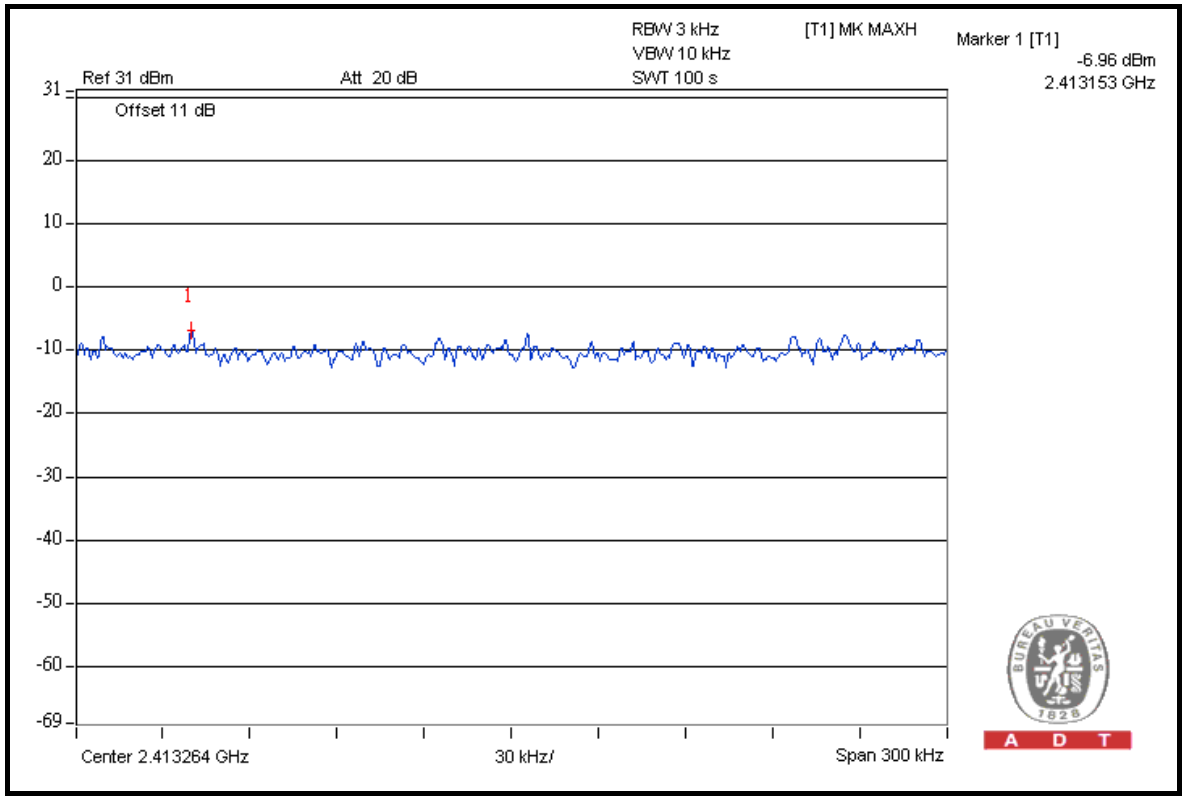
Same as Item 4.3.6.

4.5.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.0	8	PASS
6	2437	-7.6	8	PASS
11	2462	-7.7	8	PASS

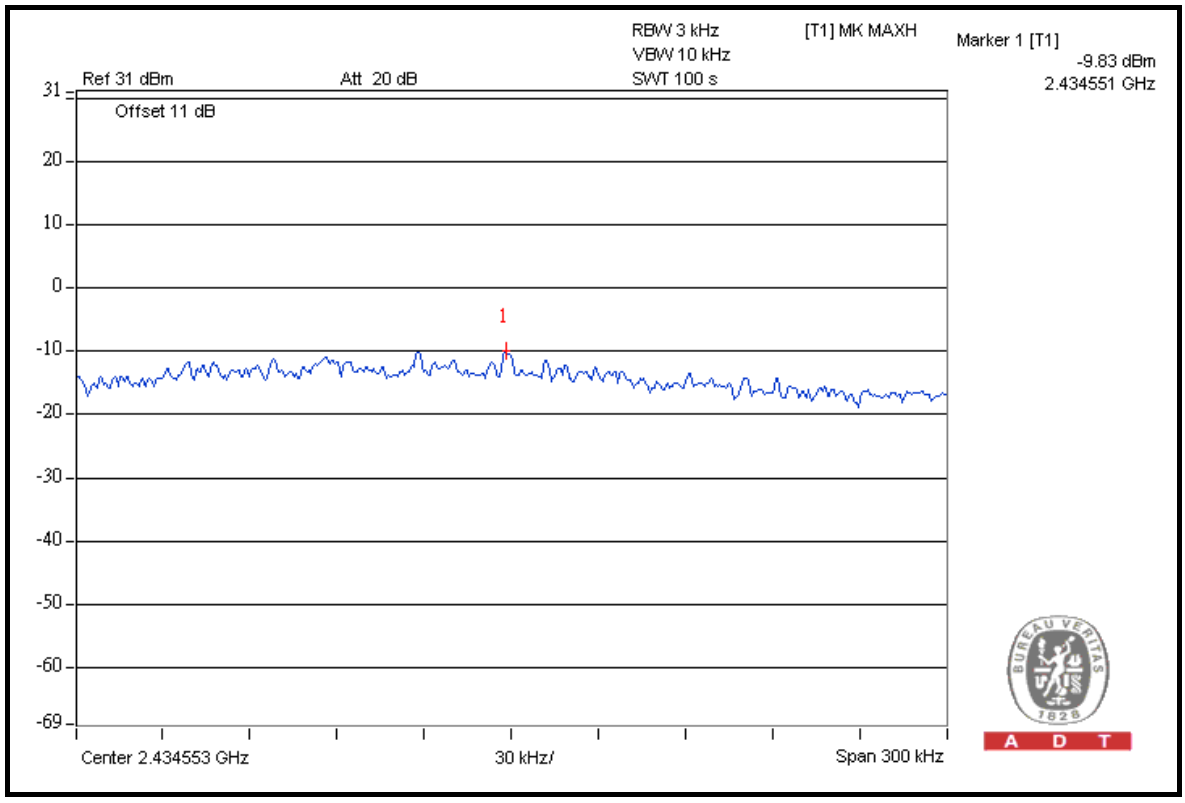
CH 1



802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.5	8	PASS
6	2437	-9.8	8	PASS
11	2462	-10.3	8	PASS

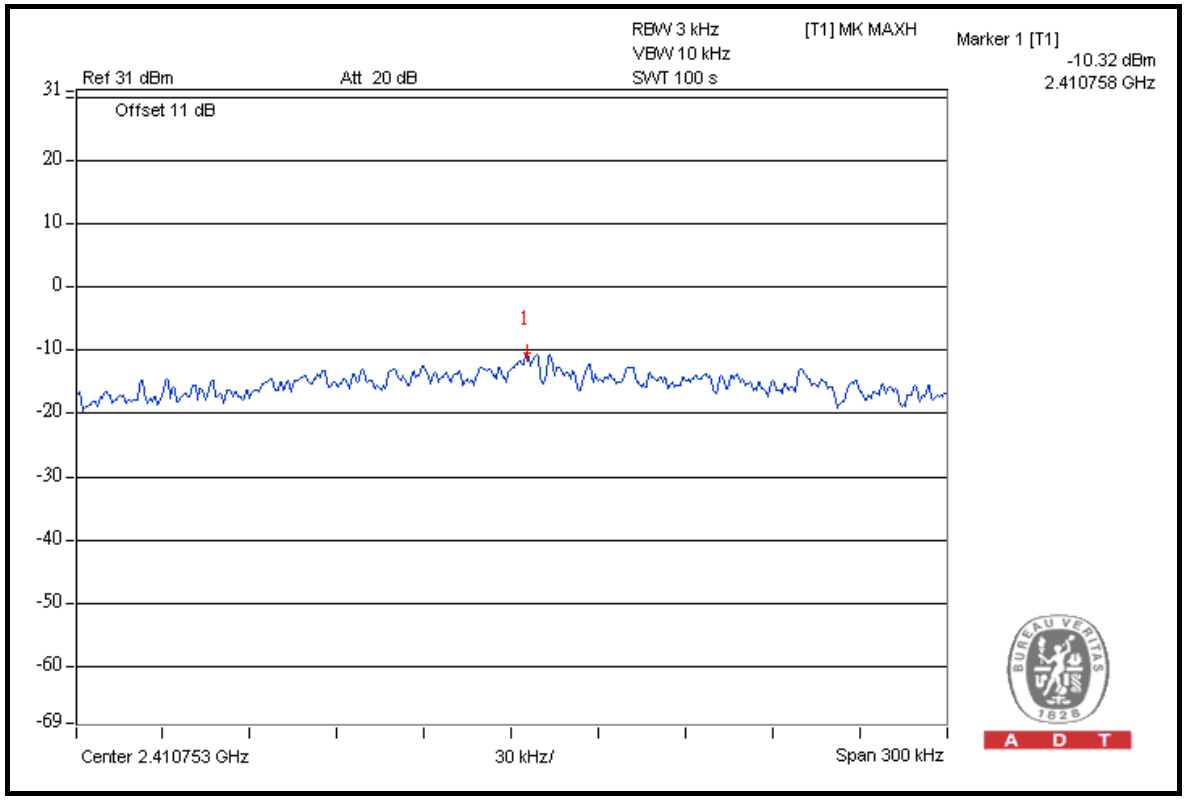
CH 6



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.3	8	PASS
6	2437	-10.4	8	PASS
11	2462	-10.5	8	PASS

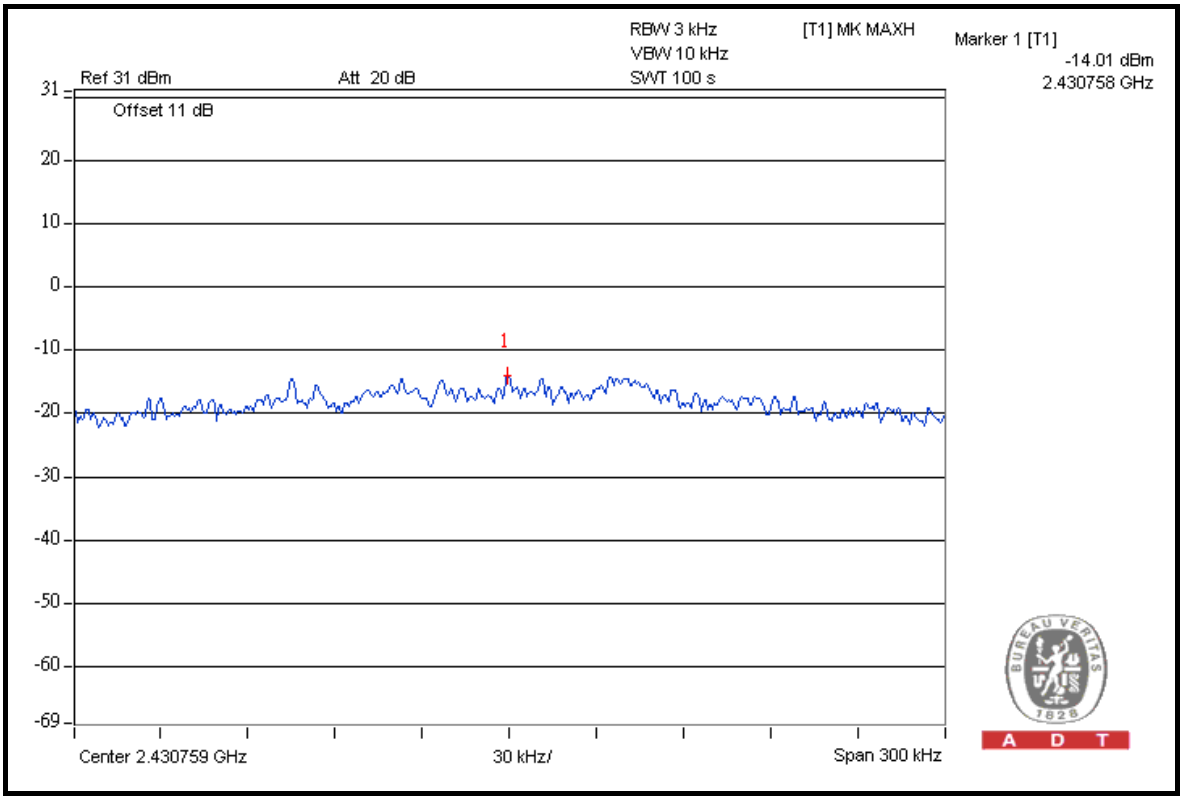
CH 1



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2422	-18.3	8	PASS
4	2437	-14.0	8	PASS
7	2452	-18.9	8	PASS

CH 4



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100039	Feb. 23, 2011	Feb. 22, 2012

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

4.6.3 TEST PROCEDURE

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

The spectrum plots (Peak RBW =100kHz, VBW = 300kHz; Average RBW = 1MHz, VBW = 10Hz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6.

4.6.6 TEST RESULTS

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

802.11b

TEST MODE A

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	108.0	55.24	52.76	74.00
2412.00 (AV)	105.5	60.13	45.37	54.00

RESTRICT BAND (2483.5 ~ 2500 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	108.0	54.74	53.26	74.00
2462.00 (AV)	105.6	59.85	45.75	54.00

TEST MODE B

RESTRICT BAND (2310 ~ 2390 MHz)

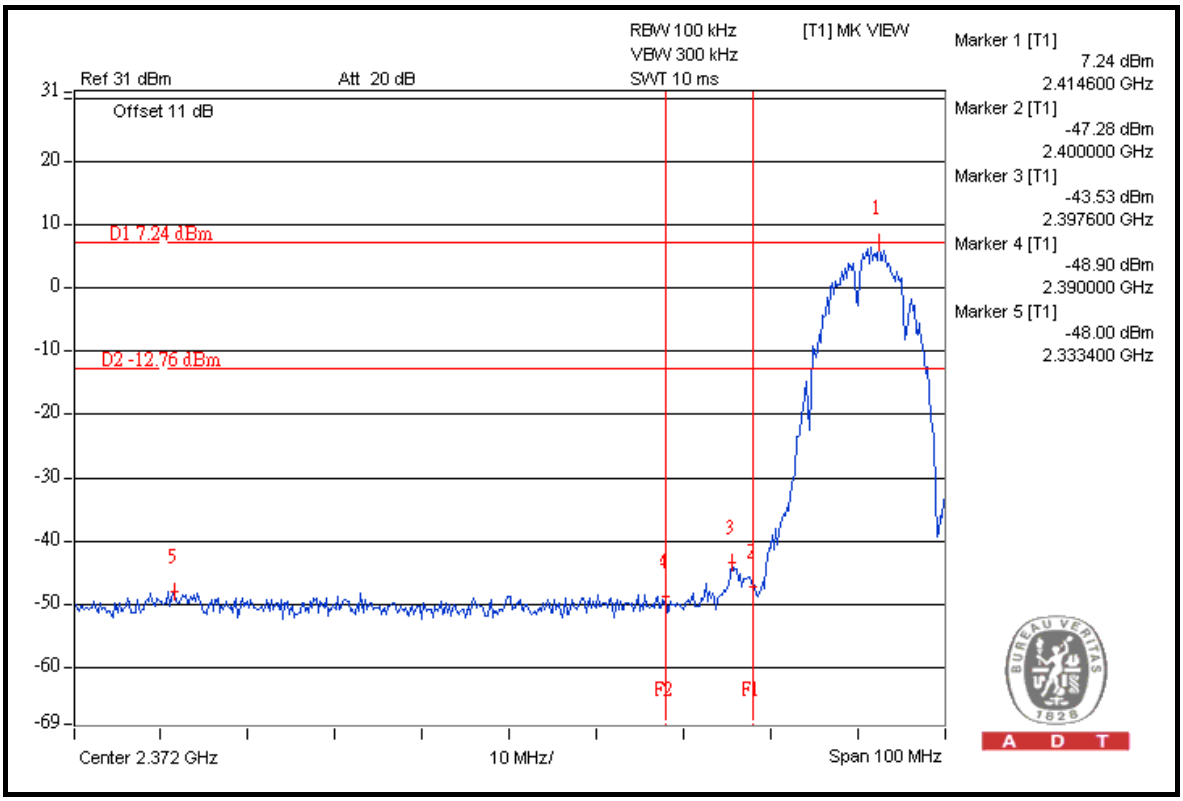
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	106.5	55.24	51.26	74.00
2412.00 (AV)	103.0	60.13	42.87	54.00

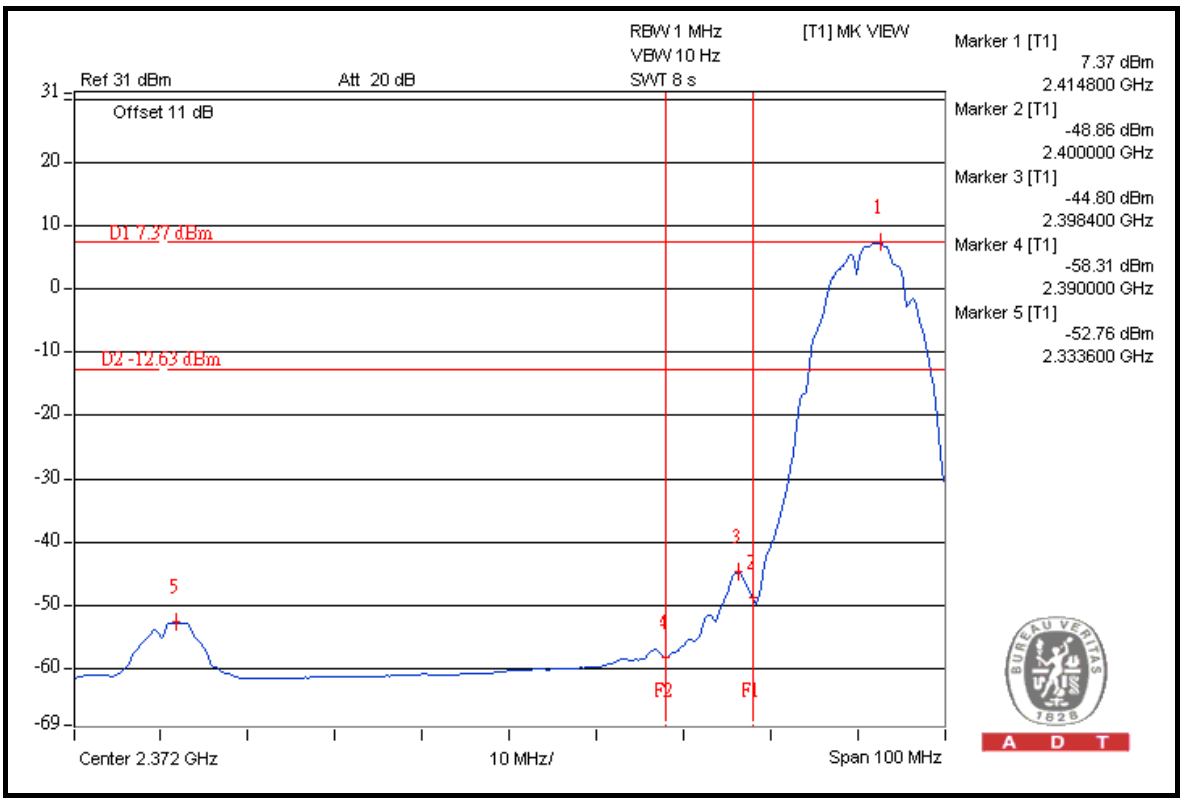
RESTRICT BAND (2483.5 ~ 2500 MHz)

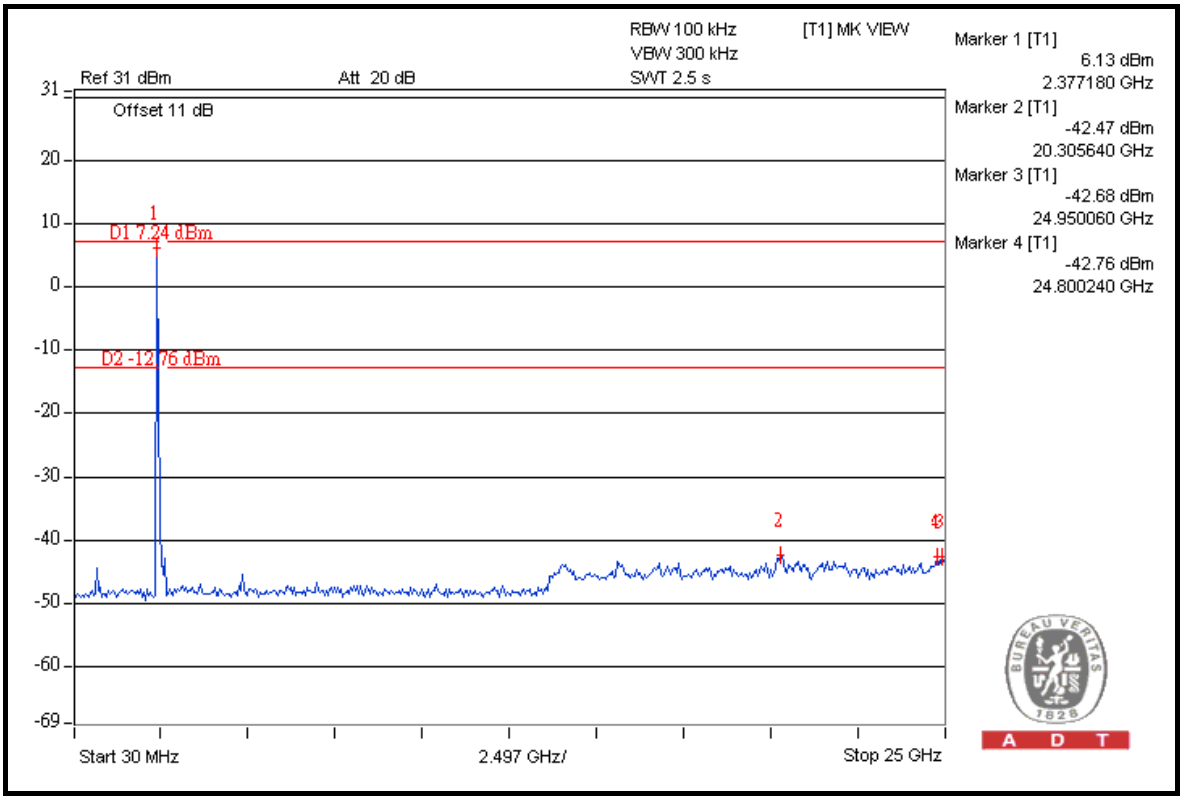
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	106.2	54.74	51.46	74.00
2462.00 (AV)	102.3	59.85	42.45	54.00

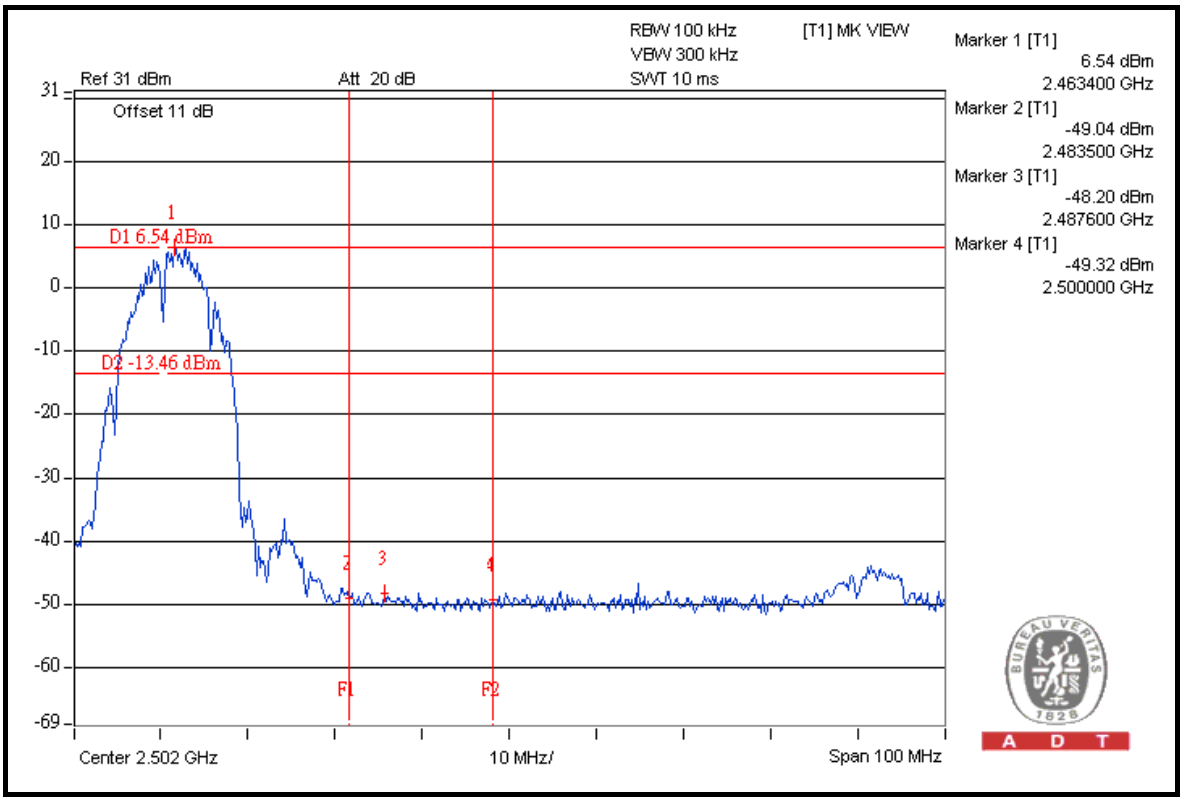
NOTE:

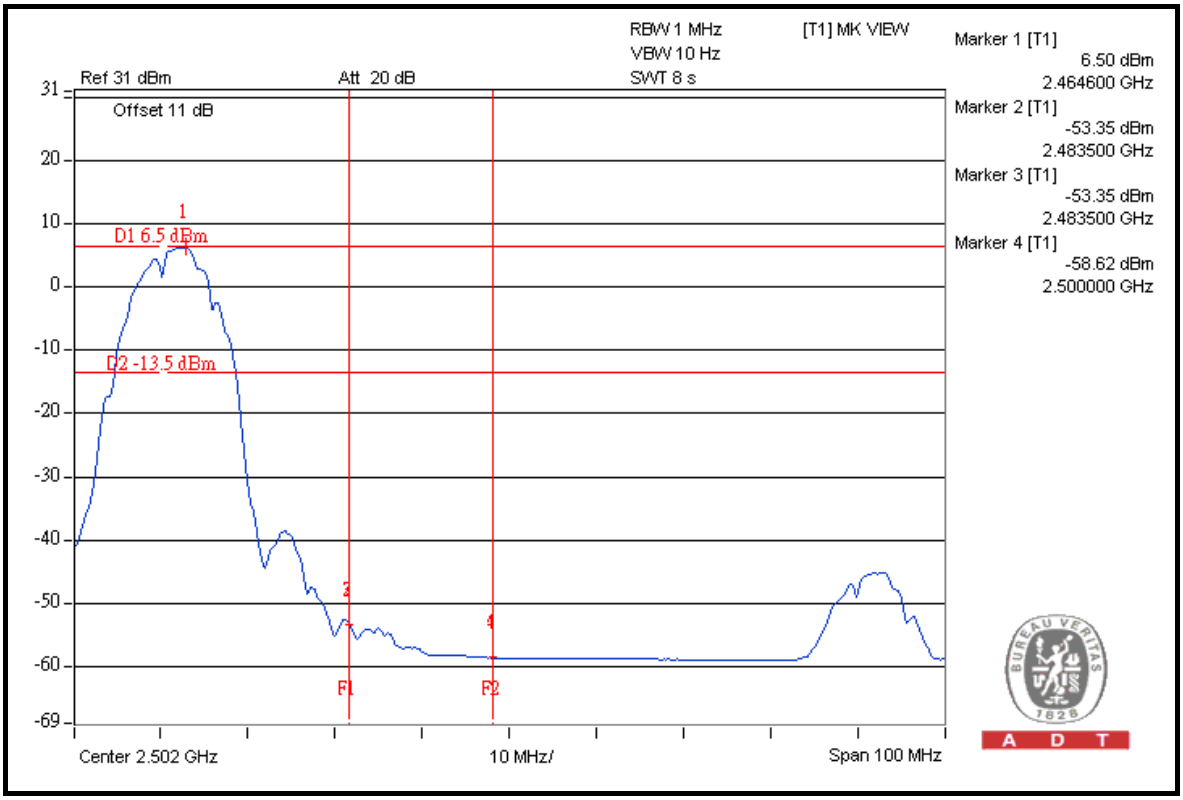
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

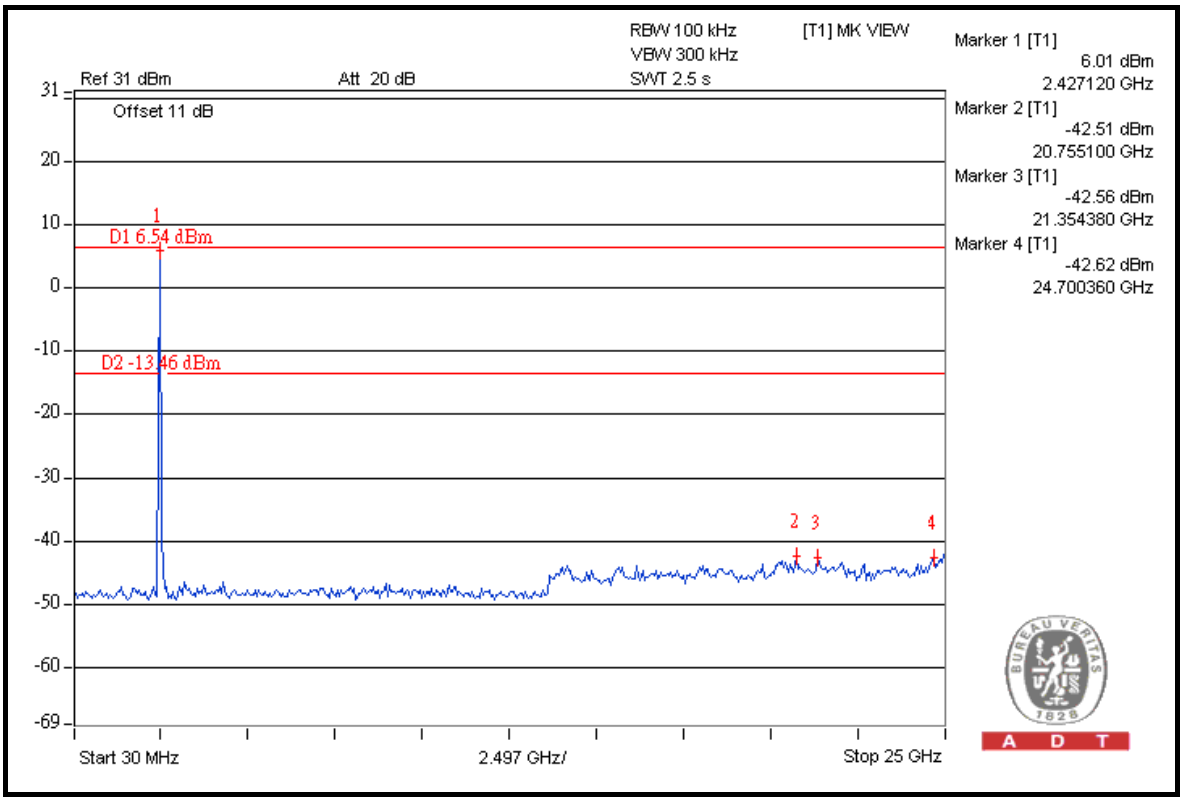

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 7.24 dBm
D2 -12.76 dBm
Marker 1 [T1]
7.24 dBm
2.414600 GHz
Marker 2 [T1]
-47.28 dBm
2.400000 GHz
Marker 3 [T1]
-43.53 dBm
2.397600 GHz
Marker 4 [T1]
-48.90 dBm
2.390000 GHz
Marker 5 [T1]
-48.00 dBm
2.333400 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 8 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 7.37 dBm
D2 -12.63 dBm
Marker 1 [T1]
7.37 dBm
2.414800 GHz
Marker 2 [T1]
-48.86 dBm
2.400000 GHz
Marker 3 [T1]
-44.80 dBm
2.398400 GHz
Marker 4 [T1]
-58.31 dBm
2.390000 GHz
Marker 5 [T1]
-52.76 dBm
2.333600 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 7.24 dBm
D2 -12.76 dBm
Marker 1 [T1]
6.13 dBm
2.377180 GHz
Marker 2 [T1]
-42.47 dBm
20.305640 GHz
Marker 3 [T1]
-42.68 dBm
24.950060 GHz
Marker 4 [T1]
-42.76 dBm
24.800240 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 6.54 dBm
D2 -13.46 dBm
Marker 1 [T1]
6.54 dBm
2.463400 GHz
Marker 2 [T1]
-49.04 dBm
2.483500 GHz
Marker 3 [T1]
-48.20 dBm
2.487600 GHz
Marker 4 [T1]
-49.32 dBm
2.500000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 8 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 6.5 dBm
D2 -13.5 dBm
Marker 1 [T1]
6.50 dBm
2.464600 GHz
Marker 2 [T1]
-53.35 dBm
2.483500 GHz
Marker 3 [T1]
-53.35 dBm
2.483500 GHz
Marker 4 [T1]
-58.62 dBm
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 6.54 dBm
D2 -13.46 dBm
Marker 1 [T1]
6.01 dBm
2.427120 GHz
Marker 2 [T1]
-42.51 dBm
20.755100 GHz
Marker 3 [T1]
-42.56 dBm
21.354380 GHz
Marker 4 [T1]
-42.62 dBm
24.700360 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz

802.11g

TEST MODE A

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	107.8	45.11	62.69	74.00
2412.00 (AV)	95.8	46.08	49.72	54.00

RESTRICT BAND (2483.5 ~ 2500 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	107.1	42.16	64.94	74.00
2462.00 (AV)	95.1	43.26	51.84	54.00

TEST MODE B

RESTRICT BAND (2310 ~ 2390 MHz)

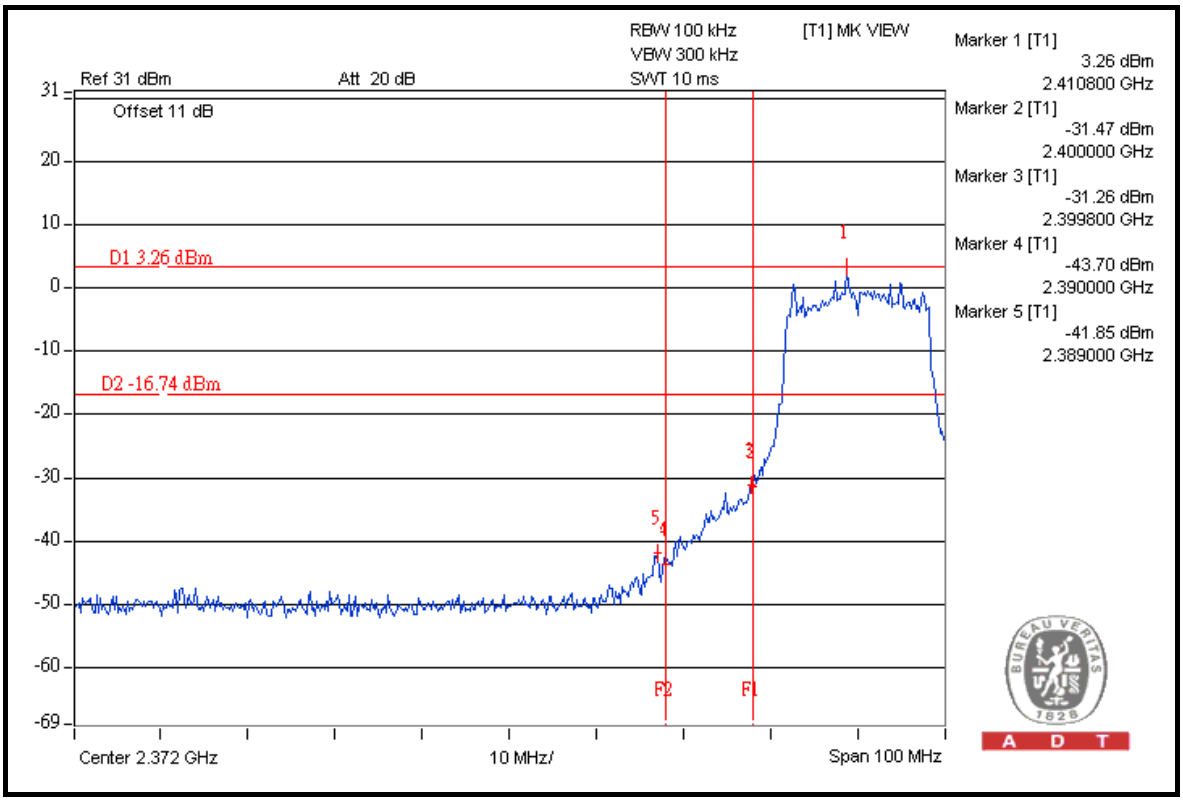
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	104.5	45.11	59.39	74.00
2412.00 (AV)	92.9	46.08	46.82	54.00

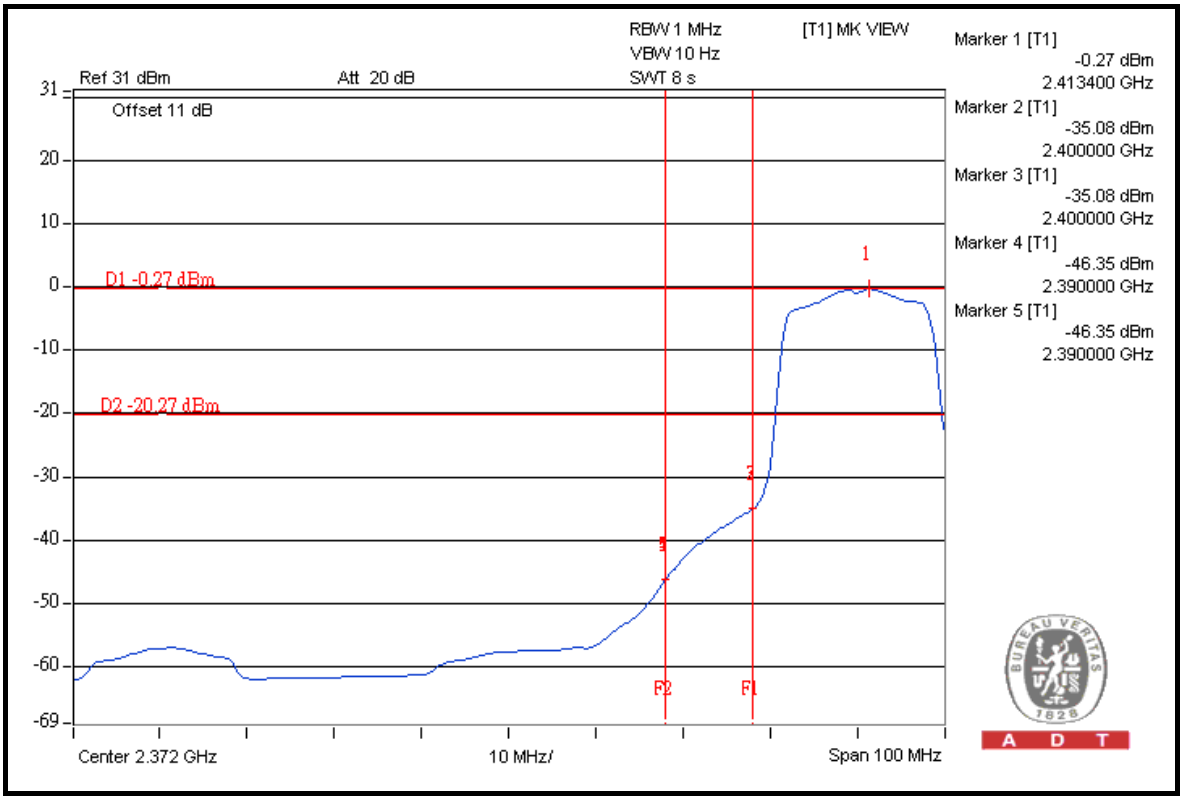
RESTRICT BAND (2483.5 ~ 2500 MHz)

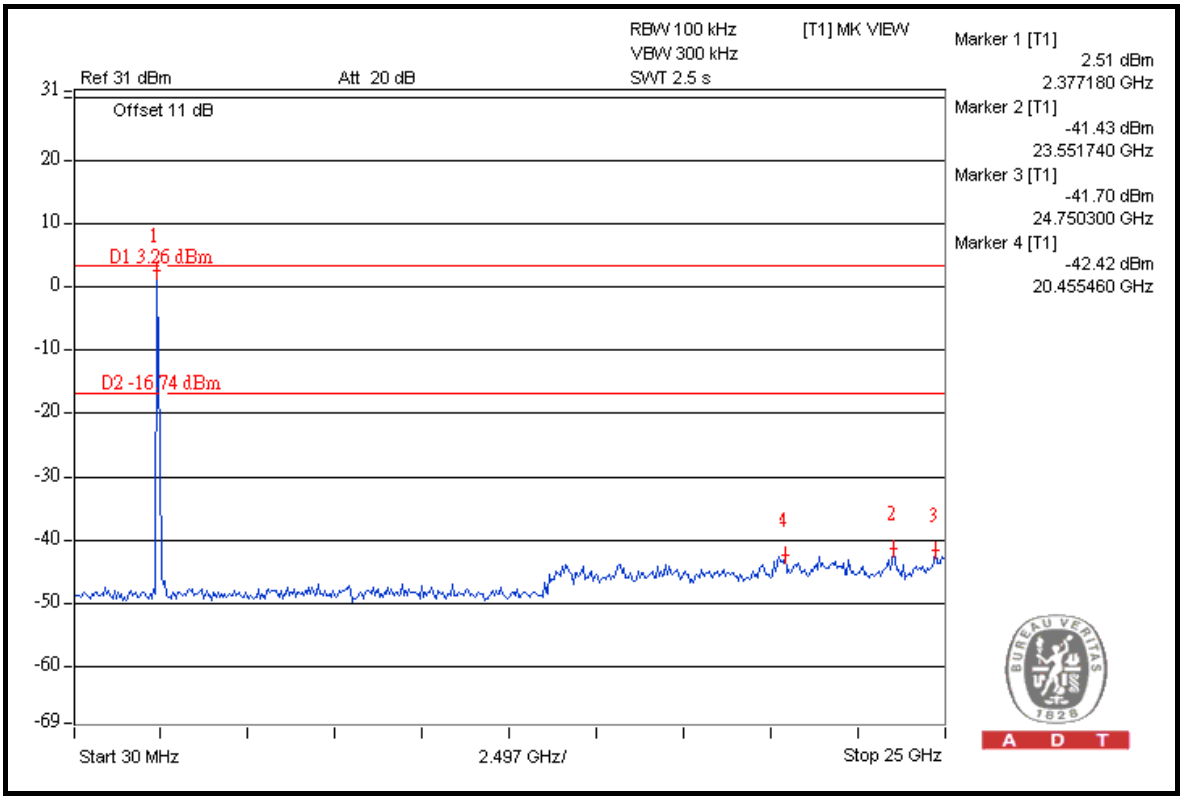
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	104.6	42.16	62.44	74.00
2462.00 (AV)	93.1	43.26	49.84	54.00

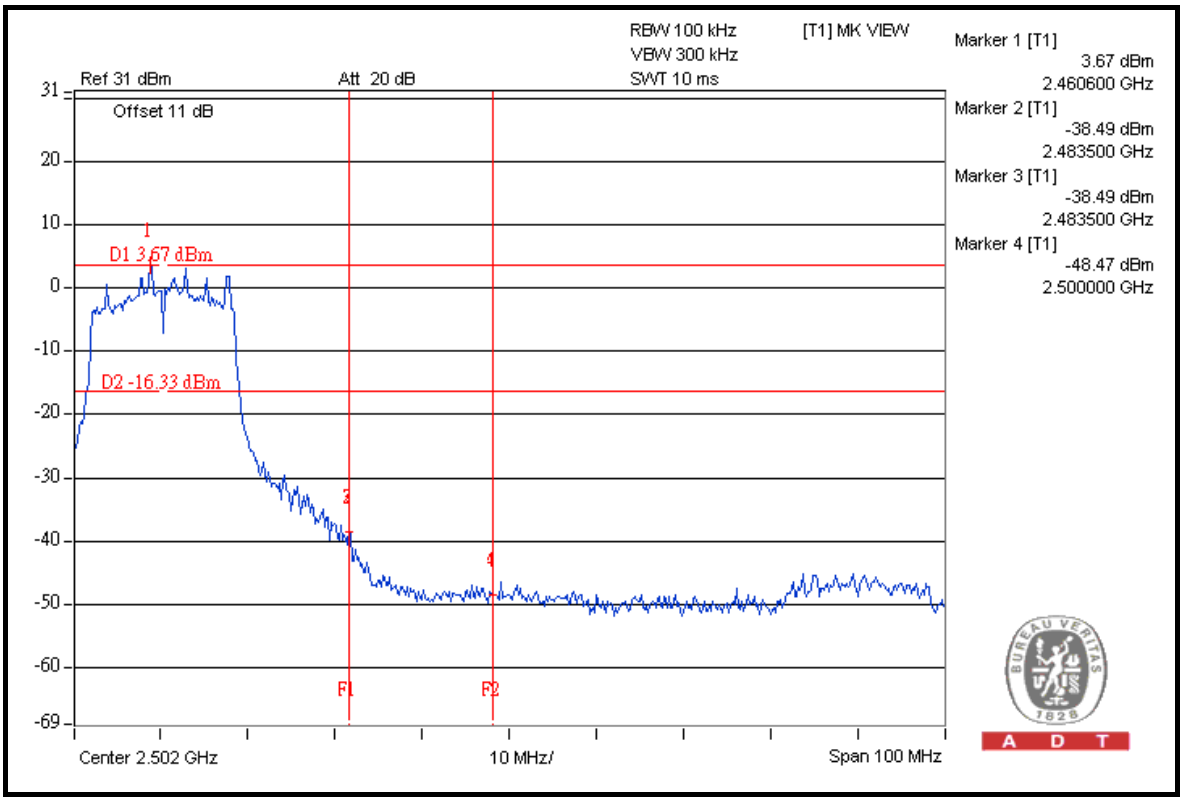
NOTE:

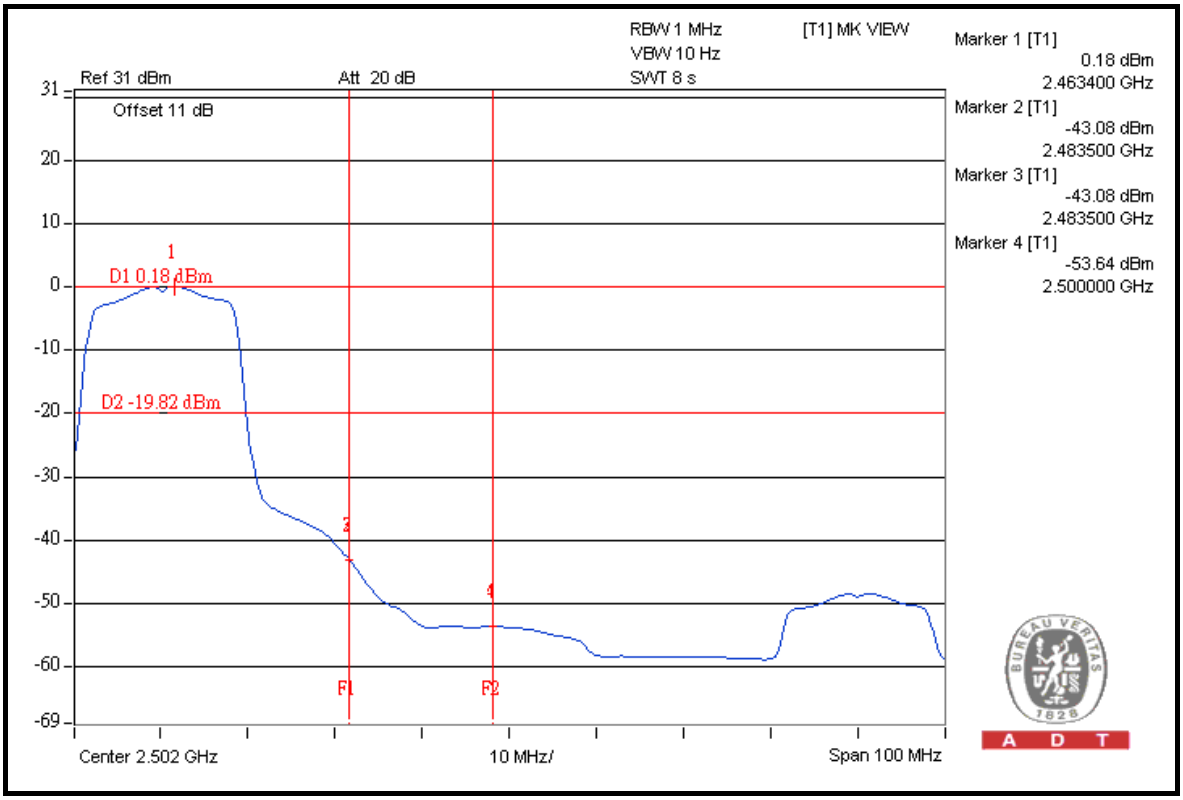
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

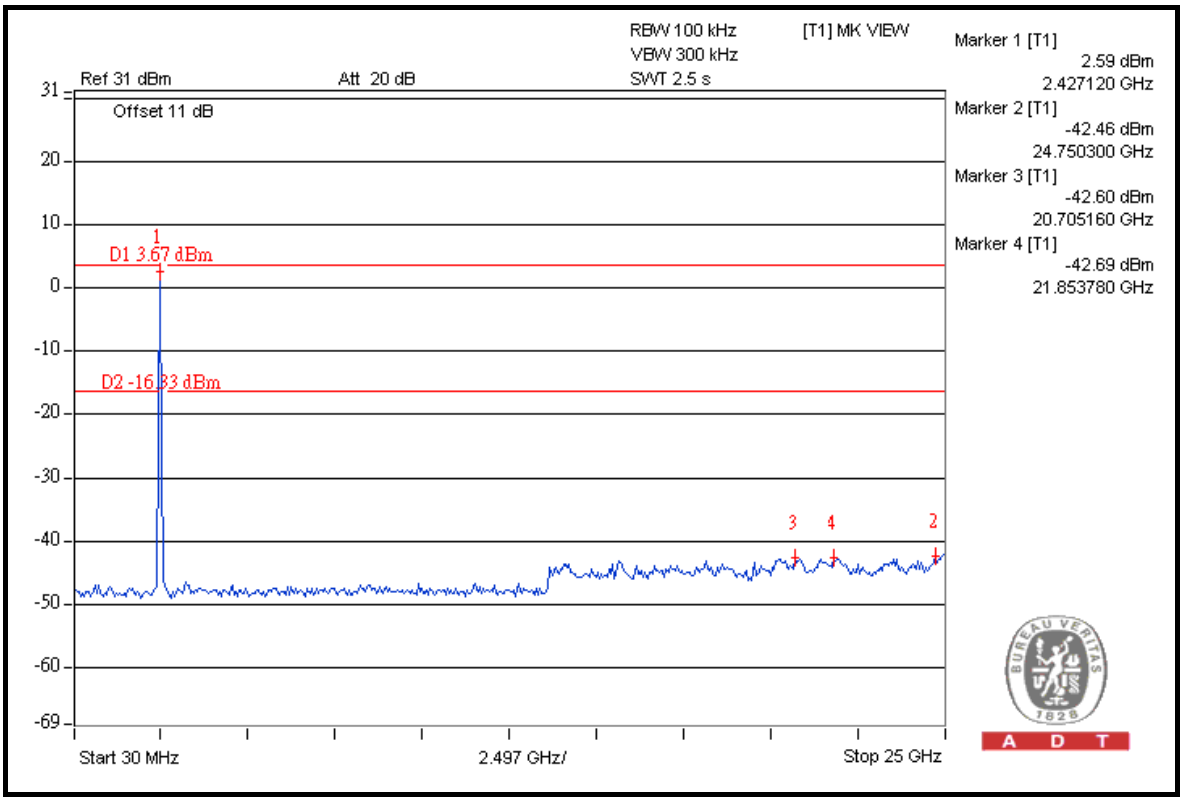

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 3.26 dBm
D2 -16.74 dBm
Center 2.372 GHz
10 MHz/
Span 100 MHz
Marker 1 [T1]
3.26 dBm
2.410800 GHz
Marker 2 [T1]
-31.47 dBm
2.400000 GHz
Marker 3 [T1]
-31.26 dBm
2.399800 GHz
Marker 4 [T1]
-43.70 dBm
2.390000 GHz
Marker 5 [T1]
-41.85 dBm
2.389000 GHz


RBW 1 MHz
VBW 10 Hz
SWT 8 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -0.27 dBm
D2 -20.27 dBm
Center 2.372 GHz
10 MHz/
Span 100 MHz
Marker 1 [T1]
-0.27 dBm
2.413400 GHz
Marker 2 [T1]
-35.08 dBm
2.400000 GHz
Marker 3 [T1]
-35.08 dBm
2.400000 GHz
Marker 4 [T1]
-46.35 dBm
2.390000 GHz
Marker 5 [T1]
-46.35 dBm
2.390000 GHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 3.26 dBm
D2 -16.74 dBm
Marker 1 [T1]
2.51 dBm
2.377180 GHz
Marker 2 [T1]
-41.43 dBm
23.551740 GHz
Marker 3 [T1]
-41.70 dBm
24.750300 GHz
Marker 4 [T1]
-42.42 dBm
20.455460 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 3.67 dBm
D2 -16.33 dBm
Marker 1 [T1]
3.67 dBm
2.460600 GHz
Marker 2 [T1]
-38.49 dBm
2.483500 GHz
Marker 3 [T1]
-38.49 dBm
2.483500 GHz
Marker 4 [T1]
-48.47 dBm
2.500000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 8 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 0.18 dBm
D2 -19.82 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
Marker 1 [T1]
0.18 dBm
2.463400 GHz
Marker 2 [T1]
-43.08 dBm
2.483500 GHz
Marker 3 [T1]
-43.08 dBm
2.483500 GHz
Marker 4 [T1]
-53.64 dBm
2.500000 GHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 3.67 dBm
D2 -16.33 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Marker 1 [T1]
2.59 dBm
2.427120 GHz
Marker 2 [T1]
-42.46 dBm
24.750300 GHz
Marker 3 [T1]
-42.60 dBm
20.705160 GHz
Marker 4 [T1]
-42.69 dBm
21.853780 GHz

802.11n (20MHz)

TEST MODE A

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	107.0	44.70	62.30	74.00
2412.00 (AV)	95.4	43.73	51.67	54.00

RESTRICT BAND (2483.5 ~ 2500 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	107.0	40.94	66.06	74.00
2462.00 (AV)	95.5	43.25	52.25	54.00

TEST MODE B

RESTRICT BAND (2310 ~ 2390 MHz)

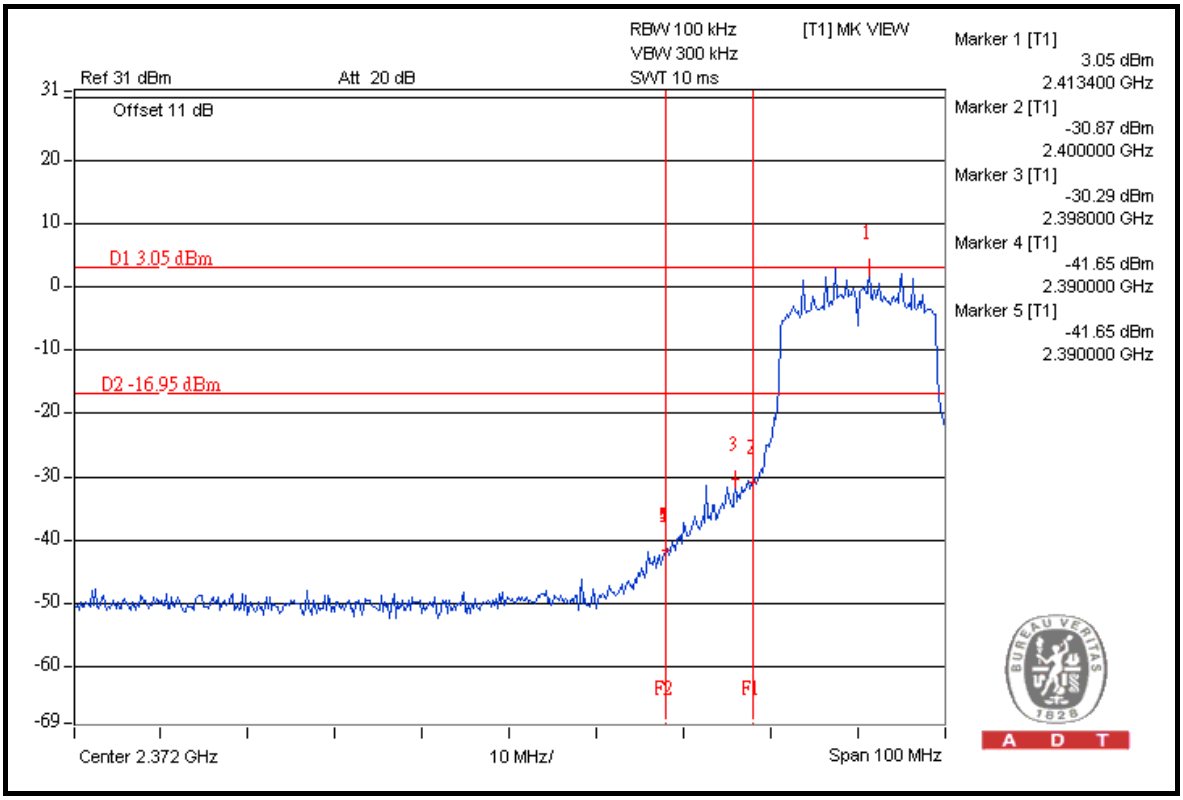
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	105.3	44.70	60.60	74.00
2412.00 (AV)	94.4	43.73	50.67	54.00

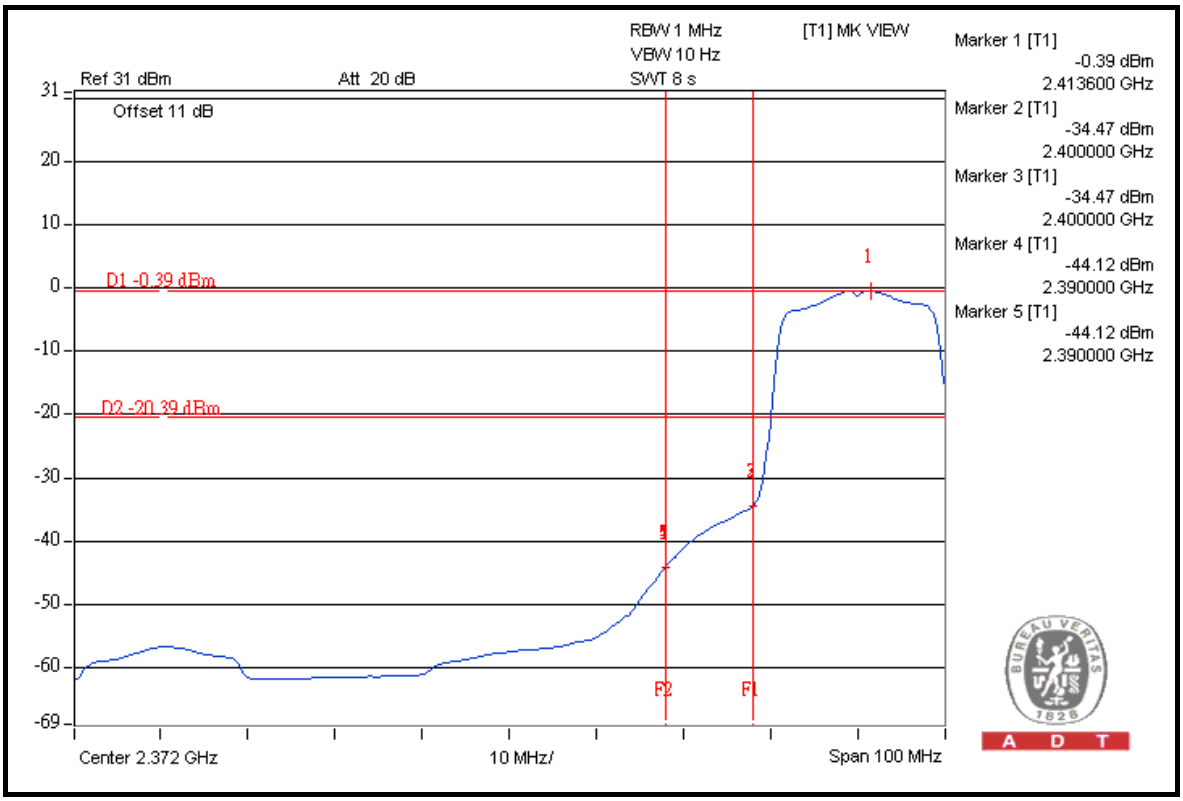
RESTRICT BAND (2483.5 ~ 2500 MHz)

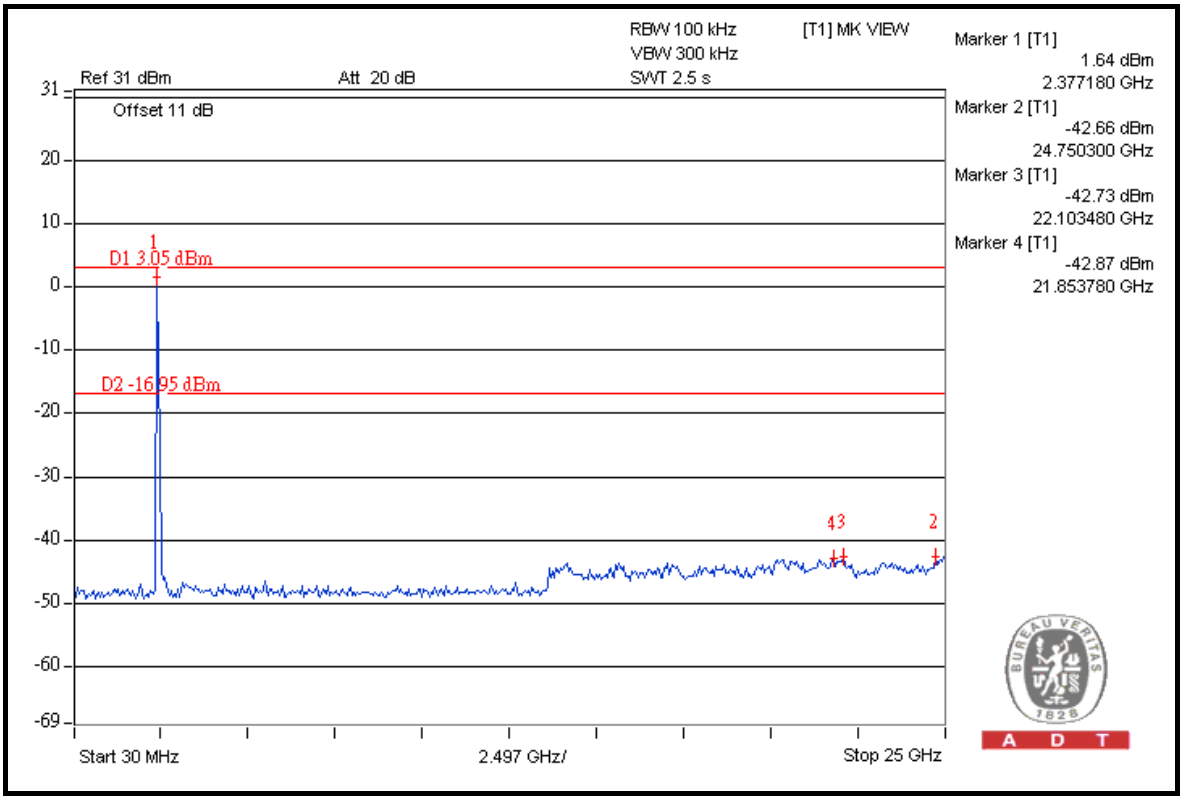
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	105.2	40.94	64.26	74.00
2462.00 (AV)	94.0	43.25	50.75	54.00

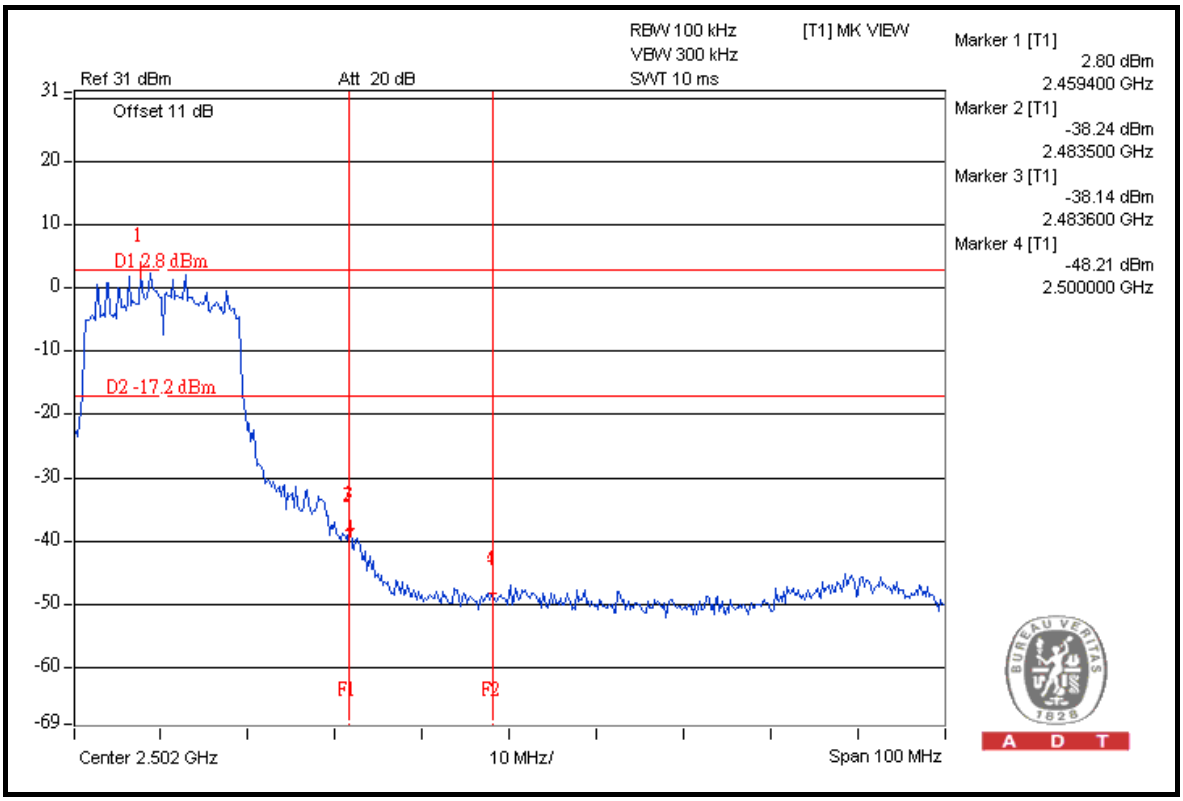
NOTE:

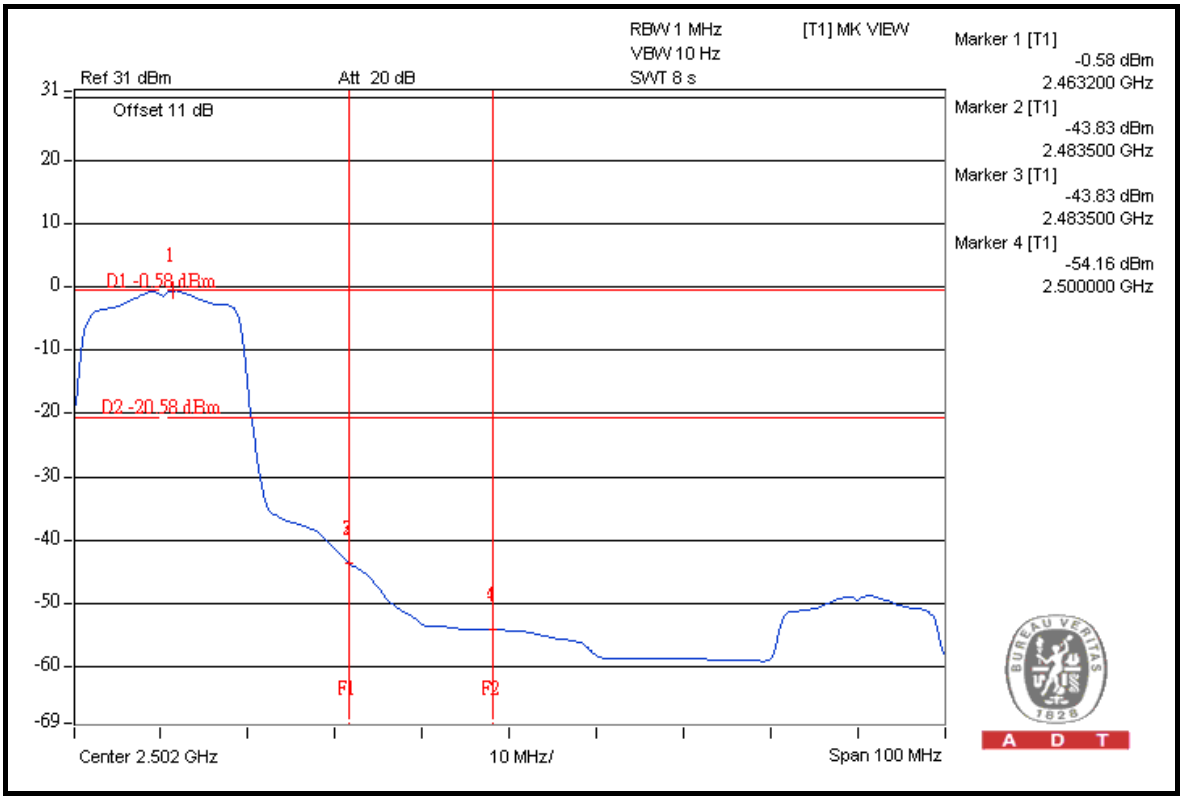
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

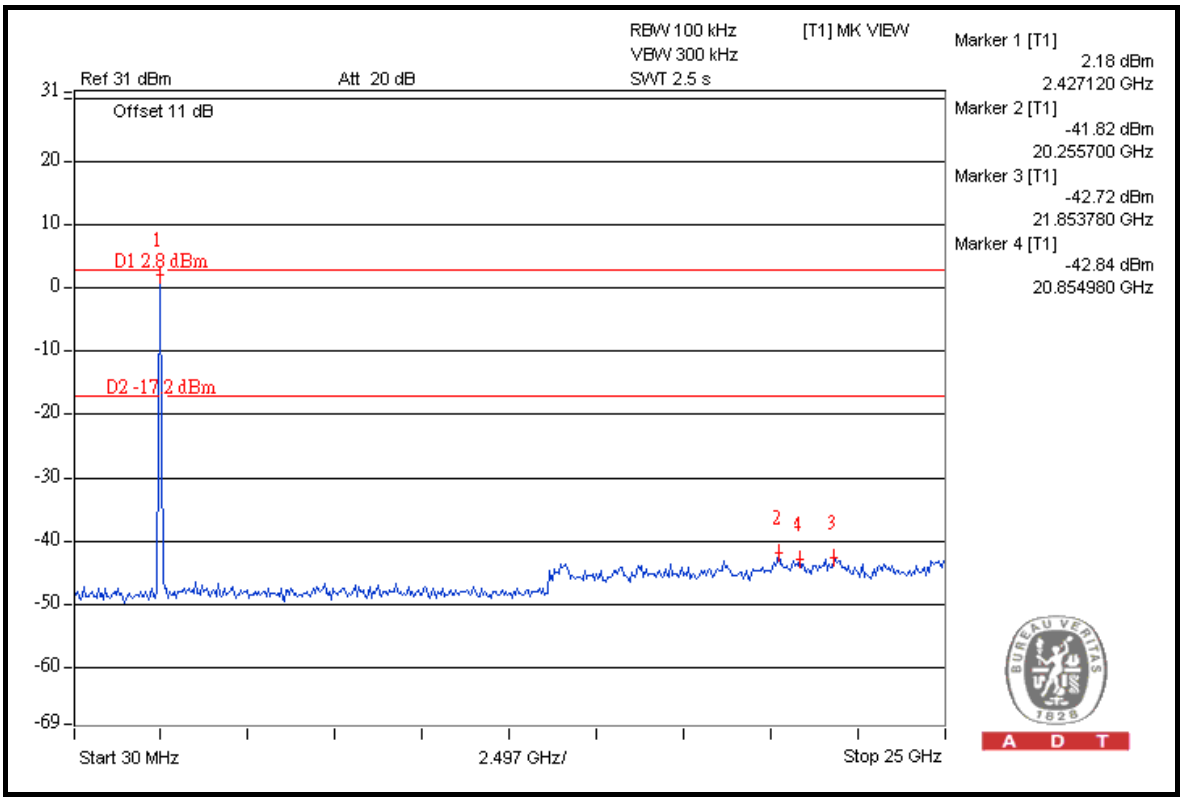

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 3.05 dBm
D2 -16.95 dBm
Marker 1 [T1]
3.05 dBm
2.413400 GHz
Marker 2 [T1]
-30.87 dBm
2.400000 GHz
Marker 3 [T1]
-30.29 dBm
2.398000 GHz
Marker 4 [T1]
-41.65 dBm
2.390000 GHz
Marker 5 [T1]
-41.65 dBm
2.390000 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 8 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -0.39 dBm
D2 -20.39 dBm
Marker 1 [T1]
-0.39 dBm
2.413600 GHz
Marker 2 [T1]
-34.47 dBm
2.400000 GHz
Marker 3 [T1]
-34.47 dBm
2.400000 GHz
Marker 4 [T1]
-44.12 dBm
2.390000 GHz
Marker 5 [T1]
-44.12 dBm
2.390000 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 3.05 dBm
D2 -16.95 dBm
Marker 1 [T1]
1.64 dBm
2.377180 GHz
Marker 2 [T1]
-42.66 dBm
24.750300 GHz
Marker 3 [T1]
-42.73 dBm
22.103480 GHz
Marker 4 [T1]
-42.87 dBm
21.853780 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 2.8 dBm
D2 -17.2 dBm
Marker 1 [T1]
2.80 dBm
2.459400 GHz
Marker 2 [T1]
-38.24 dBm
2.483500 GHz
Marker 3 [T1]
-38.14 dBm
2.483600 GHz
Marker 4 [T1]
-48.21 dBm
2.500000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 8 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -0.58 dBm
D2 -20.58 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
Marker 1 [T1]
-0.58 dBm
2.463200 GHz
Marker 2 [T1]
-43.83 dBm
2.483500 GHz
Marker 3 [T1]
-43.83 dBm
2.483500 GHz
Marker 4 [T1]
-54.16 dBm
2.500000 GHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 2.8 dBm
D2 -17.2 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Marker 1 [T1]
2.18 dBm
2.427120 GHz
Marker 2 [T1]
-41.82 dBm
20.255700 GHz
Marker 3 [T1]
-42.72 dBm
21.853780 GHz
Marker 4 [T1]
-42.84 dBm
20.854980 GHz

802.11n (40MHz)

TEST MODE A

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2422.00 (PK)	102.0	29.38	72.62	74.00
2422.00 (AV)	89.4	37.17	52.23	54.00

RESTRICT BAND (2483.5 ~ 2500 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2452.00 (PK)	101.2	29.82	71.38	74.00
2452.00 (AV)	89.0	36.07	52.93	54.00

TEST MODE B

RESTRICT BAND (2310 ~ 2390 MHz)

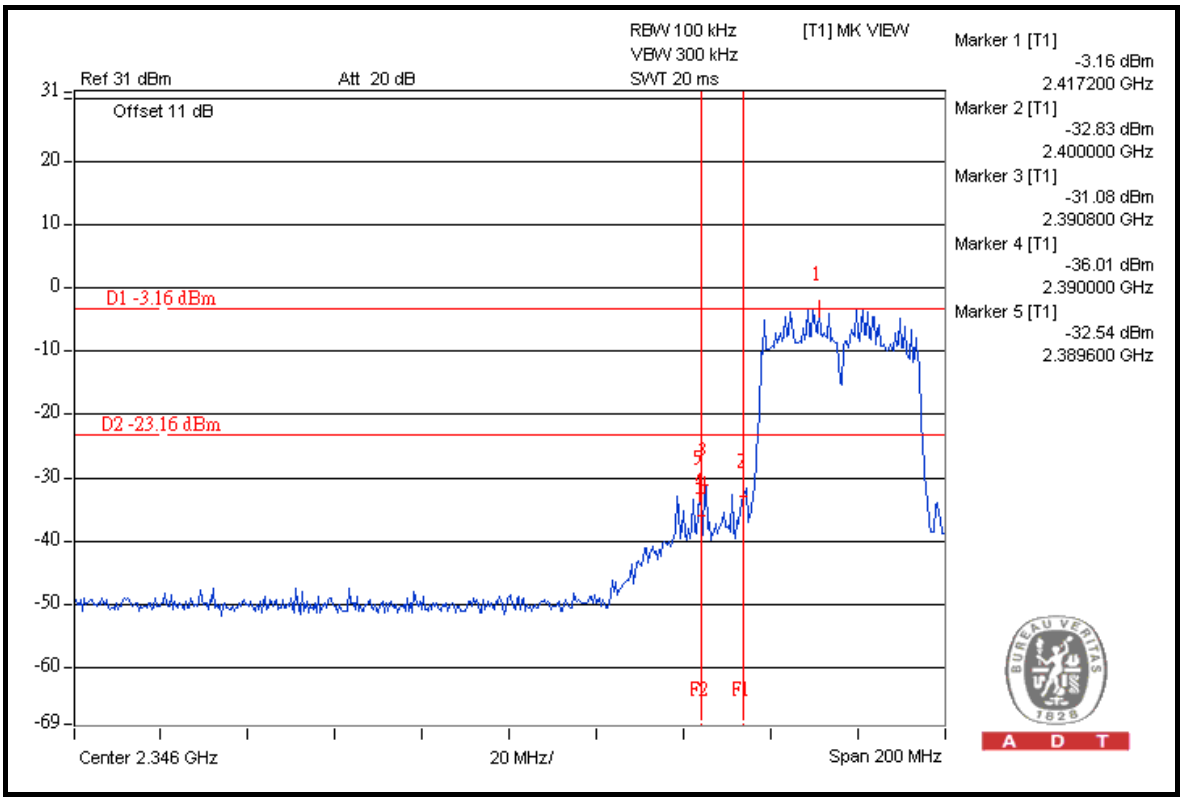
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2422.00 (PK)	99.5	29.38	70.12	74.00
2422.00 (AV)	88.3	37.17	51.13	54.00

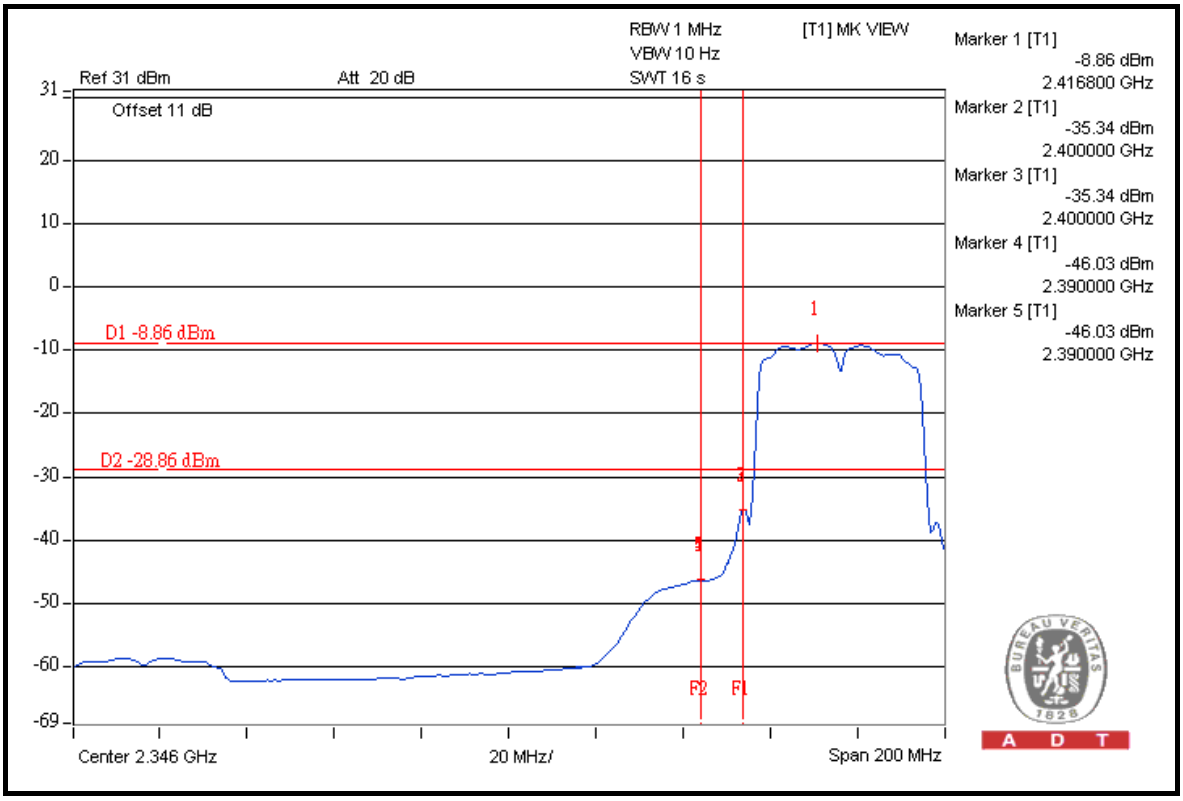
RESTRICT BAND (2483.5 ~ 2500 MHz)

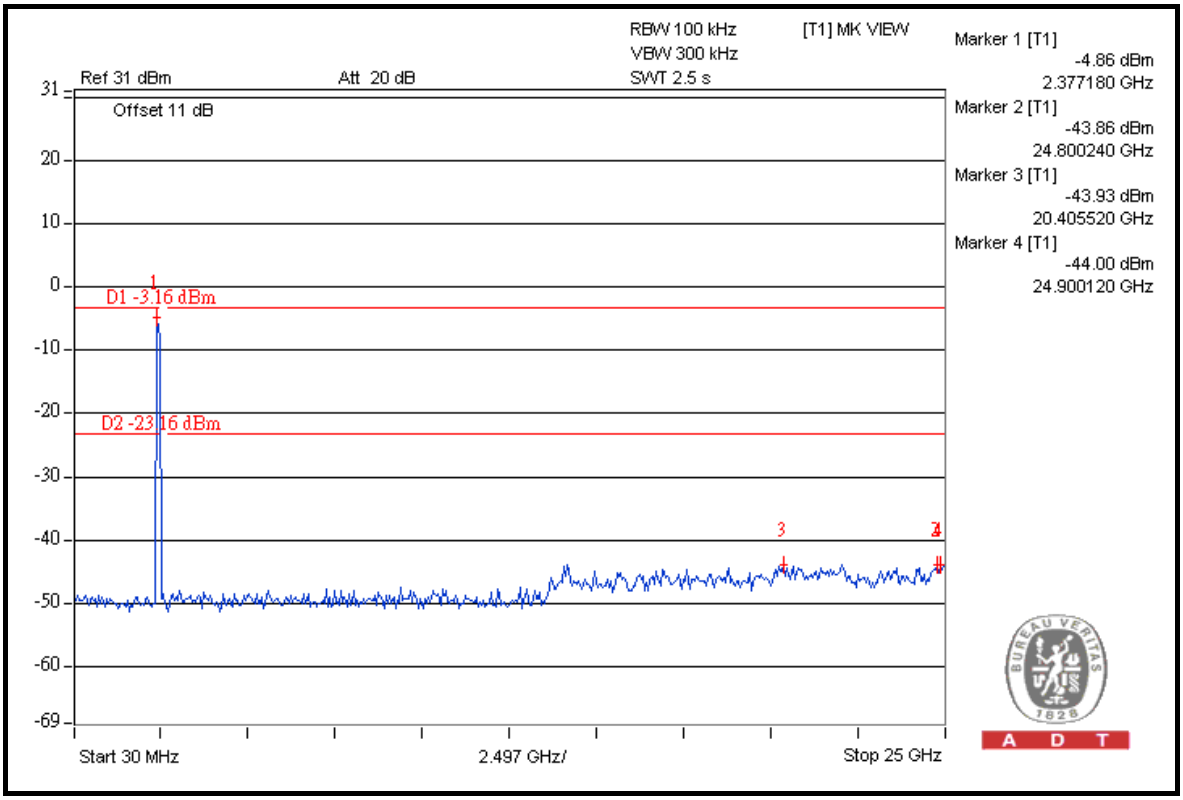
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2452.00 (PK)	98.8	29.82	68.98	74.00
2452.00 (AV)	87.6	36.07	51.53	54.00

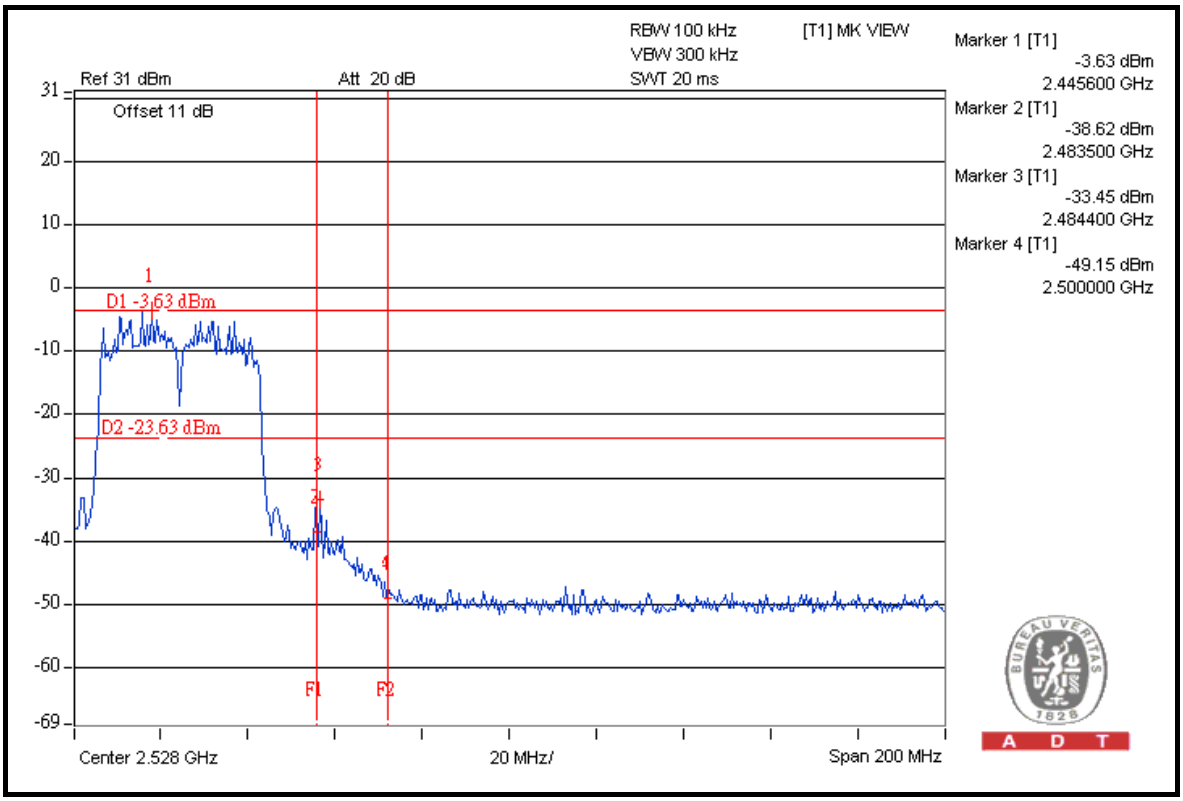
NOTE:

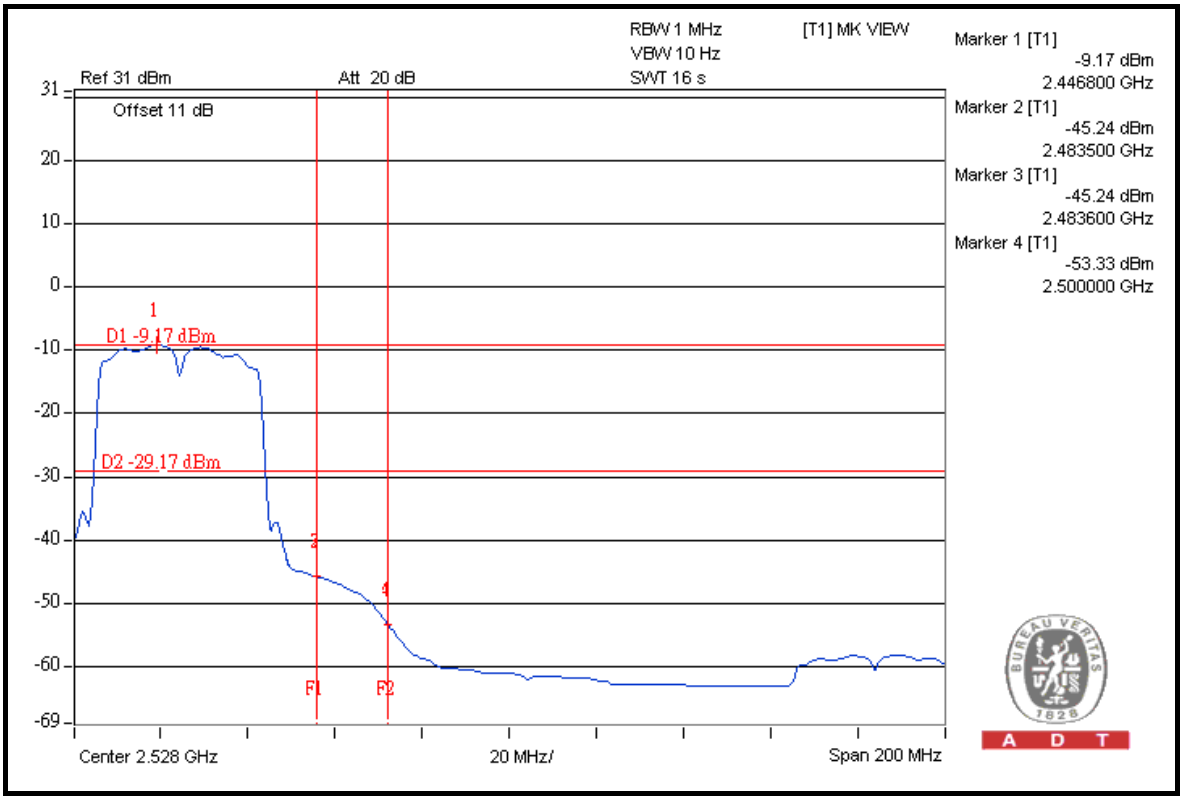
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

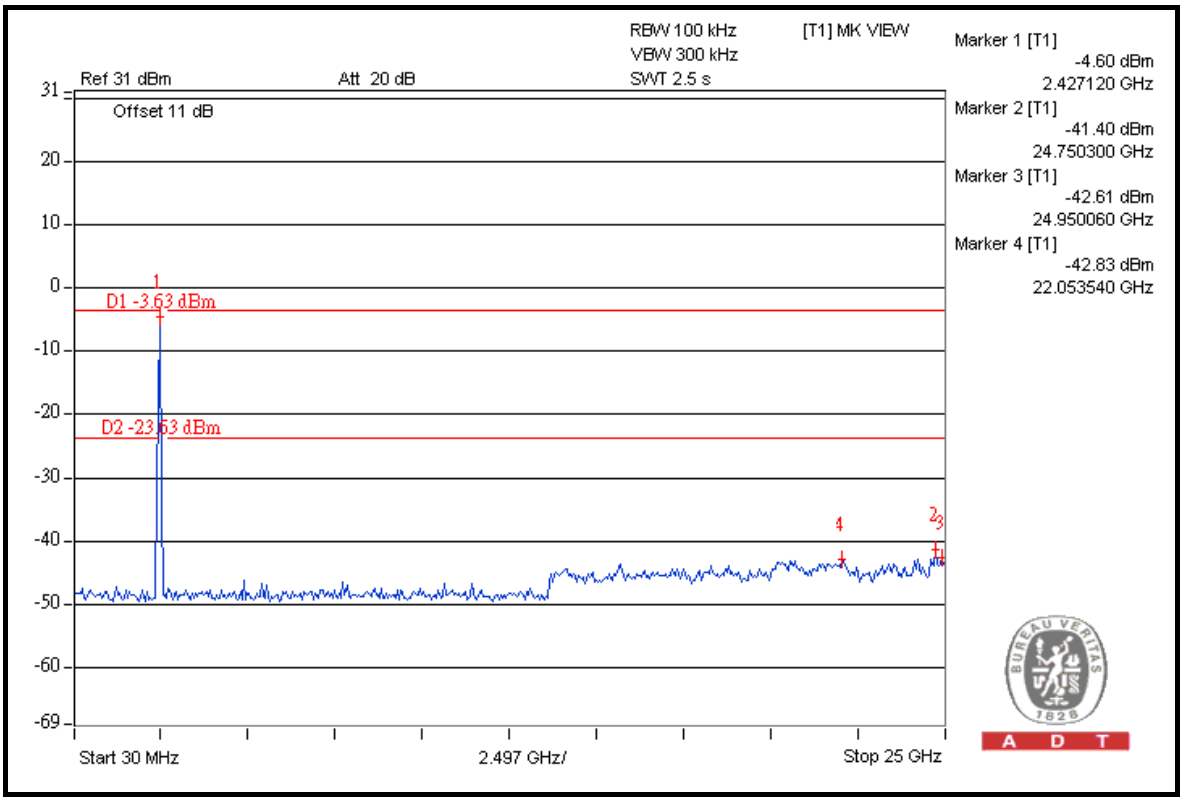

RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -3.16 dBm
D2 -23.16 dBm
Marker 1 [T1]
-3.16 dBm
2.417200 GHz
Marker 2 [T1]
-32.83 dBm
2.400000 GHz
Marker 3 [T1]
-31.08 dBm
2.390800 GHz
Marker 4 [T1]
-36.01 dBm
2.390000 GHz
Marker 5 [T1]
-32.54 dBm
2.389600 GHz
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 16 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -8.86 dBm
D2 -28.86 dBm
Marker 1 [T1]
-8.86 dBm
2.416800 GHz
Marker 2 [T1]
-35.34 dBm
2.400000 GHz
Marker 3 [T1]
-35.34 dBm
2.400000 GHz
Marker 4 [T1]
-46.03 dBm
2.390000 GHz
Marker 5 [T1]
-46.03 dBm
2.390000 GHz
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -3.16 dBm
D2 -23.16 dBm
Marker 1 [T1]
-4.86 dBm
2.377180 GHz
Marker 2 [T1]
-43.86 dBm
24.800240 GHz
Marker 3 [T1]
-43.93 dBm
20.405520 GHz
Marker 4 [T1]
-44.00 dBm
24.900120 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -3.63 dBm
D2 -23.63 dBm
Marker 1 [T1]
-3.63 dBm
2.445600 GHz
Marker 2 [T1]
-38.62 dBm
2.483500 GHz
Marker 3 [T1]
-33.45 dBm
2.484400 GHz
Marker 4 [T1]
-49.15 dBm
2.500000 GHz
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 16 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -9.17 dBm
D2 -29.17 dBm
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz
Marker 1 [T1]
-9.17 dBm
2.446800 GHz
Marker 2 [T1]
-45.24 dBm
2.483500 GHz
Marker 3 [T1]
-45.24 dBm
2.483600 GHz
Marker 4 [T1]
-53.33 dBm
2.500000 GHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 31 dBm
Att 20 dB
Offset 11 dB
D1 -3.63 dBm
D2 -23.63 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Marker 1 [T1]
-4.60 dBm
2.427120 GHz
Marker 2 [T1]
-41.40 dBm
24.750300 GHz
Marker 3 [T1]
-42.61 dBm
24.950060 GHz
Marker 4 [T1]
-42.83 dBm
22.053540 GHz

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.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5.phtml. If you have any comments, please feel free to contact us at the following:

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

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: 886-3-3185050
Email: service.adt@tw.bureauveritas.com
Web Site: www.adt.com.tw

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---