

FCC TEST REPORT (15.247)

REPORT NO.: RF120720C10G

MODEL NO.: WS-AP3715e

FCC ID: QXO-AP3715E1

RECEIVED: May 03, 2013

TESTED: May 20 ~ Jun. 18, 2013

ISSUED: Jun. 20, 2013

APPLICANT: Enterasys Networks, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120720C10G	Original release	Jun. 20, 2013



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1. CERTIFICATION

PRODUCT: Wireless 802.11 abgn Router

MODEL NO.: WS-AP3715e

BRAND: Enterasys

APPLICANT: Enterasys Networks, Inc.

TESTED: May 20 ~ Jun. 18, 2013

TEST SAMPLE: ENGINEERING SAMPLE

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

ANSI C63.10-2009

The above equipment (model: WS-AP3715e) 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 : Celine Chou , **DATE :** Jun. 20, 2013
Celine Chou / Specialist

APPROVED BY : Ken Liu , **DATE :** Jun. 20, 2013
Ken Liu / Senior 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	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -8.95dB at 0.51838MHz.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2483.50, 2390.00, 2495.00 and 2496.00MHz.
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connectors are RSMA and N-Type. (The device is professionally installed)

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	Wireless 802.11 abgn Router
MODEL NO.	WS-AP3715e
POWER SUPPLY	5Vdc (host equipment)
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 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 450.0Mbps
OPERATING FREQUENCY	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5745 ~ 5825MHz
NUMBER OF CHANNEL	2.4GHz: 11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz) 5.0GHz: 5 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz)
OUTPUT POWER	Antenna 1 626.713mW for 2412 ~ 2462MHz 439.751mW for 5745 ~ 5825MHz
	Antenna 2 697.462mW for 2412 ~ 2462MHz 450.177mW for 5745 ~ 5825MHz
	Antenna 3 349.228mW for 2412 ~ 2462MHz 441.213mW for 5745 ~ 5825MHz
	Antenna 4 691.265mW for 2412 ~ 2462MHz 442.201mW for 5745 ~ 5825MHz
	Antenna 5 691.554mW for 2412 ~ 2462MHz 442.201mW for 5745 ~ 5825MHz

ANTENNA TYPE	Refer to Note as below
ANTENNA CONNECTOR	Refer to Note as below
DATA CABLE	N/A
I/O PORTS	N/A
ACCESSORY DEVICES	N/A

NOTE:

1. The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and three receivers.

MODULATION MODE	TX FUNCTION
802.11b	3TX
802.11g	3TX
802.11a	3TX
802.11n (20MHz)	3TX
802.11n (40MHz)	3TX

2. The following antenna type is provided to the EUT.

NO.	ANTENNA TYPE	ANTENNA CONNECTOR	ANTENNA GAIN (dBi)	
			2.4GHz BAND	5GHz BAND
1	Dipole	RSMA	3.0	3.0
2	Panel	RSMA	6.5	5.5
3	MIMO Applications Panel	N-Type	10.0	6.0
4	MIMO Applications OMNI	N-Type	2.0	2.0
5	MIMO Applications Sector	N-Type	5.0	5.0

*Antenna connectors are RSMA and N-Type. (The device is professionally installed)

*Antenna 2 gain is including 6dBi attenuator.

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

3.2 DESCRIPTION OF TEST MODES

FOR 2.4GHz:

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

FOR 5.0GHz (5745 ~ 5825MHz):

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

FOR 2.4GHz:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with antenna 1
B	√	√	√	√	EUT with antenna 2
C	√	√	√	√	EUT with antenna 3
D	√	√	√	√	EUT with antenna 4
E	√	√	√	√	EUT with antenna 5

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

NOTE: The antenna had been pre-tested on the positioned of each 3 axis.

Mode A, B, C, E: The worst case was found when positioned on **Z-plane**.

Mode D: The worst case was found when positioned on **X-plane**.

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)
A, B, C, D, E	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A, B, C, D, E	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A, B, C, D, E	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
A, B, C, D, E	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	15.0

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)
A	802.11b	1 to 11	6	DSSS	DBPSK	6.0
B, E	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
C	802.11b	1 to 11	1	DSSS	DBPSK	1.0
D	802.11g	1 to 11	6	OFDM	BPSK	6.0

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)
A	802.11b	1 to 11	6	DSSS	DBPSK	6.0
B, E	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
C	802.11b	1 to 11	1	DSSS	DBPSK	1.0
D	802.11g	1 to 11	6	OFDM	BPSK	6.0

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)
A, B, C, D, E	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A, B, C, D, E	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A, B, C, D, E	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
A, B, C, D, E	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	15.0

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)
A, B, C, D, E	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A, B, C, D, E	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A, B, C, D, E	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
A, B, C, D, E	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	15.0



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TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin Ted Chang
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin
PLC	25deg. C, 60%RH	120Vac, 60Hz	Antony Lee
	25deg. C, 65%RH		Chris Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Frank Liu

FOR 5.0GHz (5745 ~ 5825MHz):

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with antenna 1
B	√	√	√	√	EUT with antenna 2
C	√	√	√	√	EUT with antenna 3
D	√	√	√	√	EUT with antenna 4
E	√	√	√	√	EUT with antenna 5

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

NOTE: The antenna had been pre-tested on the positioned of each 3 axis.
Mode A, B, C, E: The worst case was found when positioned on **Z-plane**.
Mode D: The worst case was found when positioned on **X-plane**.

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)
A, B, C, D, E	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A, B, C, D, E	802.11n (20MHz)	149 to 165	149, 157, 165	OFDM	BPSK	7.2
A, B, C, D, E	802.11n (40MHz)	151 to 159	151, 159	OFDM	BPSK	15.0

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)
A	802.11a	149 to 165	165	OFDM	BPSK	6.0
B	802.11a	149 to 165	149	OFDM	BPSK	6.0
C, D, E	802.11n (20MHz)	149 to 165	149	OFDM	BPSK	7.2

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)
A	802.11a	149 to 165	165	OFDM	BPSK	6.0
B	802.11a	149 to 165	149	OFDM	BPSK	6.0
C, D, E	802.11n (20MHz)	149 to 165	149	OFDM	BPSK	7.2

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)
A, B, C, D, E	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A, B, C, D, E	802.11n (20MHz)	149 to 165	149, 157, 165	OFDM	BPSK	7.2
A, B, C, D, E	802.11n (40MHz)	151 to 159	151, 159	OFDM	BPSK	15.0

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)
A, B, C, D, E	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A, B, C, D, E	802.11n (20MHz)	149 to 165	149, 157, 165	OFDM	BPSK	7.2
A, B, C, D, E	802.11n (40MHz)	151 to 159	151, 159	OFDM	BPSK	15.0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE _≥ 1G	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin Chris Lin
RE _{<} 1G	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin
PLC	25deg. C, 60%RH 25deg. C, 65%RH	120Vac, 60Hz	Antony Lee Chris Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Frank Liu

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.

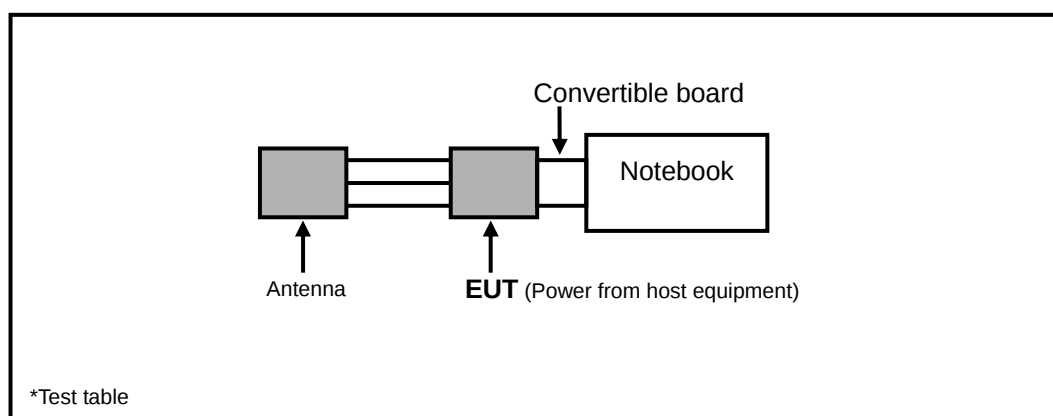
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	E5420	33MLMQ1	FCC Doc Approved
2	CONVERTIBLE BOARD	NA	NA	NA	NA

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

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 2 was provided by client.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



3.4 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)

558074 D01 DTS Meas Guidance v03r01

662911 D01 Multiple Transmitter Output v02

ANSI C63.10-2009

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

4. TEST TYPES AND RESULTS (FOR 2.4GHz BAND)

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. Other emissions shall be at least 20dB below the highest level of the desired power:

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. 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	ESCS30	100289	Nov. 16, 2012	Nov. 15, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jan. 28, 2013	Jan. 27, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Mar. 22, 2013	Mar. 21, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-209	Sep. 03, 2012	Sep. 02, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 11, 2012	Jul. 10, 2013
Preamplifier Agilent	8449B	3008A01911	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8447D	2944A10638	Oct. 25, 2012	Oct. 24, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295013/4 283403/4	Aug. 28, 2012	Aug. 27, 2013
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 11, 2012	Aug. 10, 2013
Software BV ADT	ADT_Radiated_ V7.6.15.9.3	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
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 25, 2012	Oct. 24, 2013
Turn Table Controller ADT.	SC100.	SC93021704	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 22, 2012	Aug. 21, 2013
Power Sensor	MA2411B	0738171	Jul. 30, 2012	Jul. 29, 2013

- 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 215374.
 5. The IC Site Registration No. is IC 7450F-9.

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.

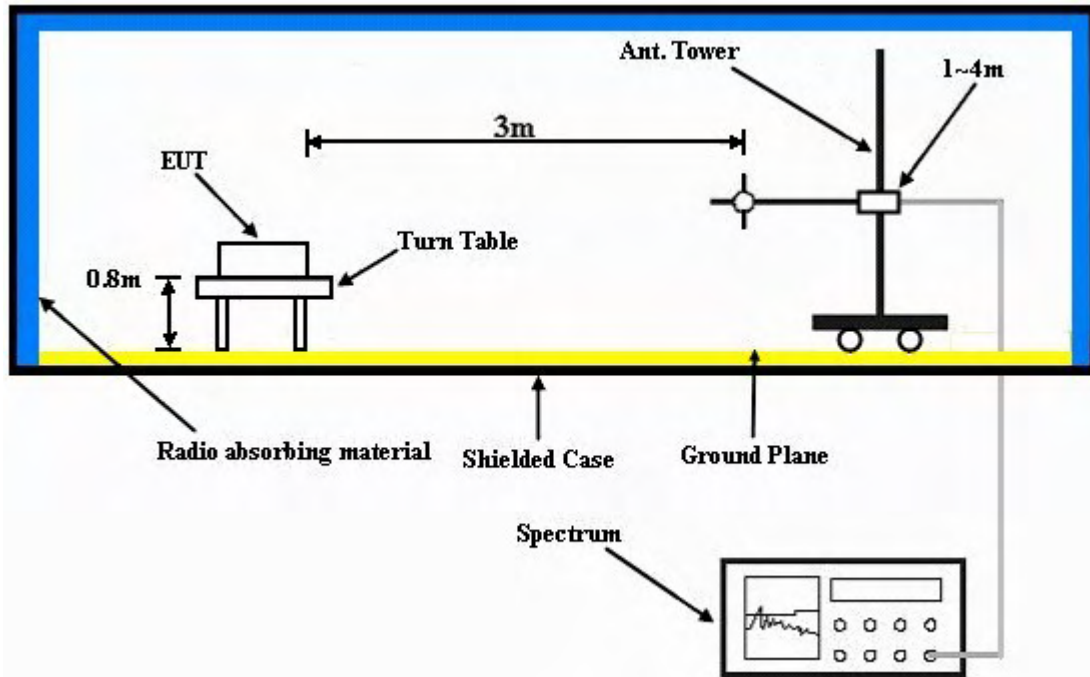
NOTE:

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 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.

4.1.4 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

- Plugged the EUT into notebook via external board and placed them on the testing table.
- The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the system in full functions.

4.1.7 TEST RESULTS

ABOVE 1GHz DATA :

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	Chris 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	51.2 PK	74.0	-22.8	1.75 H	329	19.90	31.30
2	2390.00	39.3 AV	54.0	-14.7	1.75 H	329	8.00	31.30
3	#2400.00	56.4 PK	85.1	-28.7	1.04 H	125	25.10	31.30
4	#2400.00	52.3 AV	81.0	-28.7	1.04 H	125	21.00	31.30
5	*2412.00	105.1 PK			1.00 H	223	73.70	31.40
6	*2412.00	101.0 AV			1.00 H	223	69.60	31.40
7	4824.00	48.4 PK	74.0	-25.6	1.00 H	222	11.20	37.20
8	4824.00	39.4 AV	54.0	-14.6	1.00 H	222	2.20	37.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.5 PK	74.0	-13.5	1.23 V	259	29.20	31.30
2	2390.00	52.5 AV	54.0	-1.5	1.23 V	259	21.20	31.30
3	#2400.00	69.7 PK	98.4	-28.7	1.39 V	244	38.40	31.30
4	#2400.00	65.7 AV	94.4	-28.7	1.39 V	244	34.40	31.30
5	*2412.00	118.4 PK			1.04 V	59	87.00	31.40
6	*2412.00	114.4 AV			1.04 V	59	83.00	31.40
7	4824.00	52.3 PK	74.0	-21.7	1.00 V	142	15.10	37.20
8	4824.00	48.1 AV	54.0	-5.9	1.00 V	142	10.90	37.20

REMARKS:

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



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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	Chris 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	105.1 PK			1.22 H	222	73.60	31.50
2	*2437.00	100.8 AV			1.22 H	222	69.30	31.50
3	4874.00	49.6 PK	74.0	-24.4	1.09 H	220	12.30	37.30
4	4874.00	41.7 AV	54.0	-12.3	1.09 H	220	4.40	37.30
5	7311.00	51.3 PK	74.0	-22.7	1.04 H	253	7.80	43.50
6	7311.00	38.5 AV	54.0	-15.5	1.04 H	253	-5.00	43.50
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	*2437.00	119.2 PK			1.30 V	250	87.70	31.50
2	*2437.00	114.9 AV			1.30 V	250	83.40	31.50
3	4874.00	55.2 PK	74.0	-18.8	1.40 V	253	17.90	37.30
4	4874.00	52.2 AV	54.0	-1.8	1.40 V	253	14.90	37.30
5	7311.00	51.9 PK	74.0	-22.1	1.00 V	247	8.40	43.50
6	7311.00	40.2 AV	54.0	-13.8	1.00 V	247	-3.30	43.50

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.



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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	Chris 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	104.6 PK			1.21 H	224	73.00	31.60
2	*2462.00	100.5 AV			1.21 H	224	68.90	31.60
3	2483.50	55.6 PK	74.0	-18.4	1.00 H	360	24.00	31.60
4	2483.50	43.4 AV	54.0	-10.6	1.00 H	360	11.80	31.60
5	4924.00	48.6 PK	74.0	-25.4	1.00 H	348	11.20	37.40
6	4924.00	39.6 AV	54.0	-14.4	1.00 H	348	2.20	37.40
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	*2462.00	118.5 PK			1.05 V	101	86.90	31.60
2	*2462.00	114.1 AV			1.05 V	101	82.50	31.60
3	2483.50	62.4 PK	74.0	-11.6	1.01 V	239	30.80	31.60
4	2483.50	52.7 AV	54.0	-1.3	1.01 V	239	21.10	31.60
5	4924.00	54.9 PK	74.0	-19.1	1.00 V	84	17.50	37.40
6	4924.00	51.8 AV	54.0	-2.2	1.00 V	84	14.40	37.40

REMARKS:

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



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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	Chris 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	56.7 PK	74.0	-17.3	1.18 H	360	25.40	31.30
2	2390.00	45.1 AV	54.0	-8.9	1.18 H	360	13.80	31.30
3	#2400.00	68.3 PK	81.6	-13.3	1.08 H	125	37.00	31.30
4	#2400.00	58.2 AV	71.5	-13.3	1.08 H	125	26.90	31.30
5	*2412.00	101.6 PK			1.00 H	223	70.20	31.40
6	*2412.00	91.5 AV			1.00 H	223	60.10	31.40
7	4824.00	46.1 PK	74.0	-27.9	1.04 H	125	8.90	37.20
8	4824.00	33.0 AV	54.0	-21.0	1.04 H	125	-4.20	37.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.5 PK	74.0	-3.5	1.06 V	243	39.20	31.30
2	2390.00	52.8 AV	54.0	-1.2	1.06 V	243	21.50	31.30
3	#2400.00	79.9 PK	97.2	-17.3	1.49 V	240	48.60	31.30
4	#2400.00	70.5 AV	87.8	-17.3	1.49 V	240	39.20	31.30
5	*2412.00	117.2 PK			1.06 V	250	85.80	31.40
6	*2412.00	107.8 AV			1.06 V	250	76.40	31.40
7	4824.00	47.5 PK	74.0	-26.5	1.15 V	125	10.30	37.20
8	4824.00	33.1 AV	54.0	-20.9	1.15 V	125	-4.10	37.20

REMARKS:

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



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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	Chris 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	55.1 PK	74.0	-18.9	1.10 H	125	23.80	31.30
2	2390.00	43.9 AV	54.0	-10.1	1.10 H	125	12.60	31.30
3	*2437.00	102.4 PK			1.23 H	222	70.90	31.50
4	*2437.00	93.0 AV			1.23 H	222	61.50	31.50
5	2483.50	55.2 PK	74.0	-18.8	1.04 H	136	23.60	31.60
6	2483.50	44.0 AV	54.0	-10.0	1.04 H	136	12.40	31.60
7	4874.00	46.0 PK	74.0	-28.0	1.04 H	112	8.70	37.30
8	4874.00	33.1 AV	54.0	-20.9	1.04 H	112	-4.20	37.30
9	7311.00	51.7 PK	74.0	-22.3	1.10 H	114	8.20	43.50
10	7311.00	38.8 AV	54.0	-15.2	1.10 H	114	-4.70	43.50
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	61.2 PK	74.0	-12.8	1.32 V	234	29.90	31.30
2	2390.00	50.4 AV	54.0	-3.6	1.32 V	234	19.10	31.30
3	*2437.00	119.3 PK			1.29 V	234	87.80	31.50
4	*2437.00	109.9 AV			1.29 V	234	78.40	31.50
5	2483.50	64.9 PK	74.0	-9.1	1.29 V	232	33.30	31.60
6	2483.50	52.9 AV	54.0	-1.1	1.29 V	232	21.30	31.60
7	4874.00	51.4 PK	74.0	-22.6	1.00 V	77	14.10	37.30
8	4874.00	37.1 AV	54.0	-16.9	1.00 V	77	-0.20	37.30
9	7311.00	52.2 PK	74.0	-21.8	1.10 V	114	8.70	43.50
10	7311.00	39.0 AV	54.0	-15.0	1.10 V	114	-4.50	43.50

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris 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	99.4 PK			1.21 H	222	67.80	31.60
2	*2462.00	90.2 AV			1.21 H	222	58.60	31.60
3	2483.50	55.3 PK	74.0	-18.7	1.00 H	125	23.70	31.60
4	2483.50	44.5 AV	54.0	-9.5	1.00 H	125	12.90	31.60
5	4924.00	46.1 PK	74.0	-27.9	1.10 H	125	8.70	37.40
6	4924.00	33.1 AV	54.0	-20.9	1.10 H	125	-4.30	37.40
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	*2462.00	115.9 PK			1.03 V	103	84.30	31.60
2	*2462.00	106.4 AV			1.03 V	103	74.80	31.60
3	2483.50	70.4 PK	74.0	-3.6	1.04 V	256	38.80	31.60
4	2483.50	52.1 AV	54.0	-1.9	1.04 V	256	20.50	31.60
5	4924.00	46.1 PK	74.0	-27.9	1.04 V	260	8.70	37.40
6	4924.00	34.0 AV	54.0	-20.0	1.04 V	260	-3.40	37.40

REMARKS:

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



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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	Chris 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	54.4 PK	74.0	-19.6	1.00 H	115	23.10	31.30
2	2390.00	44.1 AV	54.0	-9.9	1.00 H	115	12.80	31.30
3	#2400.00	63.4 PK	79.6	-16.2	1.01 H	125	32.10	31.30
4	#2400.00	54.5 AV	70.8	-16.3	1.01 H	125	23.20	31.30
5	*2412.00	99.6 PK			1.00 H	221	68.20	31.40
6	*2412.00	90.8 AV			1.00 H	221	59.40	31.40
7	4824.00	45.7 PK	74.0	-28.3	1.12 H	132	8.50	37.20
8	4824.00	32.4 AV	54.0	-21.6	1.12 H	132	-4.80	37.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.7 PK	74.0	-1.3	1.34 V	245	41.40	31.30
2	2390.00	52.0 AV	54.0	-2.0	1.34 V	245	20.70	31.30
3	#2400.00	77.2 PK	96.0	-18.8	1.37 V	254	45.90	31.30
4	#2400.00	68.7 AV	86.9	-18.2	1.37 V	254	37.40	31.30
5	*2412.00	116.0 PK			1.32 V	232	84.60	31.40
6	*2412.00	106.9 AV			1.32 V	232	75.50	31.40
7	4824.00	46.1 PK	74.0	-27.9	1.10 V	136	8.90	37.20
8	4824.00	33.1 AV	54.0	-20.9	1.10 V	136	-4.10	37.20

REMARKS:

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



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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	Chris 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	55.2 PK	74.0	-18.8	1.10 H	145	23.90	31.30
2	2390.00	43.8 AV	54.0	-10.2	1.10 H	145	12.50	31.30
3	*2437.00	102.3 PK			1.10 H	125	70.80	31.50
4	*2437.00	92.5 AV			1.10 H	125	61.00	31.50
5	2483.50	55.0 PK	74.0	-19.0	1.10 H	153	23.40	31.60
6	2483.50	44.5 AV	54.0	-9.5	1.10 H	153	12.90	31.60
7	4874.00	45.8 PK	74.0	-28.2	1.04 H	214	8.50	37.30
8	4874.00	33.0 AV	54.0	-21.0	1.04 H	214	-4.30	37.30
9	7311.00	50.7 PK	74.0	-23.3	1.01 H	125	7.20	43.50
10	7311.00	38.5 AV	54.0	-15.5	1.01 H	125	-5.00	43.50
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	60.7 PK	74.0	-13.3	1.64 V	248	29.40	31.30
2	2390.00	49.4 AV	54.0	-4.6	1.64 V	248	18.10	31.30
3	*2437.00	118.6 PK			1.29 V	235	87.10	31.50
4	*2437.00	109.5 AV			1.29 V	235	78.00	31.50
5	2483.50	63.7 PK	74.0	-10.3	1.51 V	234	32.10	31.60
6	2483.50	52.3 AV	54.0	-1.7	1.51 V	234	20.70	31.60
7	4874.00	51.3 PK	74.0	-22.7	1.23 V	358	14.00	37.30
8	4874.00	36.3 AV	54.0	-17.7	1.23 V	358	-1.00	37.30
9	7311.00	51.1 PK	74.0	-22.9	1.04 V	126	7.60	43.50
10	7311.00	39.4 AV	54.0	-14.6	1.04 V	126	-4.10	43.50

REMARKS:

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



A D T

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	Chris 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	98.0 PK			1.21 H	221	66.40	31.60
2	*2462.00	89.2 AV			1.21 H	221	57.60	31.60
3	2483.50	55.6 PK	74.0	-18.4	1.04 H	115	24.00	31.60
4	2483.50	43.9 AV	54.0	-10.1	1.04 H	115	12.30	31.60
5	4924.00	45.7 PK	74.0	-28.3	1.10 H	142	8.30	37.40
6	4924.00	32.6 AV	54.0	-21.4	1.10 H	142	-4.80	37.40
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	*2462.00	114.8 PK			1.26 V	56	83.20	31.60
2	*2462.00	105.5 AV			1.26 V	56	73.90	31.60
3	2483.50	72.8 PK	74.0	-1.2	1.26 V	236	41.20	31.60
4	2483.50	51.9 AV	54.0	-2.1	1.26 V	236	20.30	31.60
5	4924.00	46.3 PK	74.0	-27.7	1.02 V	152	8.90	37.40
6	4924.00	32.6 AV	54.0	-21.4	1.02 V	152	-4.80	37.40

REMARKS:

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



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris 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	54.5 PK	74.0	-19.5	1.10 H	125	23.20	31.30
2	2390.00	44.4 AV	54.0	-9.6	1.10 H	125	13.10	31.30
3	#2400.00	61.5 PK	73.0	-11.5	1.00 H	0	30.20	31.30
4	#2400.00	53.1 AV	64.6	-11.5	1.00 H	0	21.80	31.30
5	*2422.00	93.0 PK			1.00 H	223	61.60	31.40
6	*2422.00	84.6 AV			1.00 H	223	53.20	31.40
7	4844.00	45.9 PK	74.0	-28.1	1.00 H	125	8.60	37.30
8	4844.00	33.7 AV	54.0	-20.3	1.00 H	125	-3.60	37.30
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	66.1 PK	74.0	-7.9	1.29 V	243	34.80	31.30
2	2390.00	49.5 AV	54.0	-4.5	1.29 V	243	18.20	31.30
3	#2400.00	75.1 PK	86.6	-11.5	1.35 V	266	43.80	31.30
4	#2400.00	66.7 AV	78.2	-11.5	1.35 V	266	35.40	31.30
5	*2422.00	106.6 PK			1.05 V	234	75.20	31.40
6	*2422.00	98.2 AV			1.05 V	234	66.80	31.40
7	4844.00	46.5 PK	74.0	-27.5	1.04 V	125	9.20	37.30
8	4844.00	32.2 AV	54.0	-21.8	1.04 V	125	-5.10	37.30

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.
5. " * ": Fundamental frequency.
6. "#": The radiated frequency is out the restricted band.



A D T

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	Chris 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	55.3 PK	74.0	-18.7	1.10 H	123	24.00	31.30
2	2390.00	43.7 AV	54.0	-10.3	1.10 H	123	12.40	31.30
3	*2437.00	96.4 PK			1.21 H	222	64.90	31.50
4	*2437.00	87.8 AV			1.21 H	222	56.30	31.50
5	2483.50	55.2 PK	74.0	-18.8	1.10 H	147	23.60	31.60
6	2483.50	43.9 AV	54.0	-10.1	1.10 H	147	12.30	31.60
7	4874.00	45.2 PK	74.0	-28.8	1.07 H	123	7.90	37.30
8	4874.00	33.1 AV	54.0	-20.9	1.07 H	123	-4.20	37.30
9	7311.00	50.9 PK	74.0	-23.1	1.04 H	123	7.40	43.50
10	7311.00	38.4 AV	54.0	-15.6	1.04 H	123	-5.10	43.50
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	61.1 PK	74.0	-12.9	1.11 V	267	29.80	31.30
2	2390.00	48.2 AV	54.0	-5.8	1.11 V	267	16.90	31.30
3	*2437.00	109.5 PK			1.04 V	125	78.00	31.50
4	*2437.00	102.1 AV			1.04 V	125	70.60	31.50
5	2483.50	69.0 PK	74.0	-5.0	1.26 V	232	37.40	31.60
6	2483.50	52.8 AV	54.0	-1.2	1.26 V	232	21.20	31.60
7	4874.00	45.7 PK	74.0	-28.3	1.02 V	136	8.40	37.30
8	4874.00	33.2 AV	54.0	-20.8	1.02 V	136	-4.10	37.30
9	7311.00	50.5 PK	74.0	-23.5	1.10 V	126	7.00	43.50
10	7311.00	39.0 AV	54.0	-15.0	1.10 V	126	-4.50	43.50

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris 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	94.4 PK			1.19 H	224	62.90	31.50
2	*2452.00	84.1 AV			1.19 H	224	52.60	31.50
3	2483.50	59.0 PK	74.0	-15.0	1.20 H	227	27.40	31.60
4	2483.50	46.0 AV	54.0	-8.0	1.20 H	227	14.40	31.60
5	4924.00	45.3 PK	74.0	-28.7	1.02 H	113	7.90	37.40
6	4924.00	32.1 AV	54.0	-21.9	1.02 H	113	-5.30	37.40
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	*2452.00	107.7 PK			1.06 V	236	76.20	31.50
2	*2452.00	98.5 AV			1.06 V	236	67.00	31.50
3	2483.50	71.7 PK	74.0	-2.3	1.22 V	236	40.10	31.60
4	2483.50	52.9 AV	54.0	-1.1	1.22 V	236	21.30	31.60
5	4924.00	44.3 PK	74.0	-29.7	1.01 V	126	6.90	37.40
6	4924.00	32.5 AV	54.0	-21.5	1.01 V	126	-4.90	37.40

REMARKS:

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



A D T

TEST MODE B

802.11b

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

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	59.7 PK	74.0	-14.3	1.00 H	152	24.00	35.70
2	2390.00	48.4 AV	54.0	-5.6	1.00 H	152	12.70	35.70
3	*2412.00	96.7 PK			1.03 H	329	60.90	35.80
4	*2412.00	93.2 AV			1.03 H	329	57.40	35.80
5	4824.00	49.4 PK	74.0	-24.6	1.00 H	208	6.30	43.10
6	4824.00	39.5 AV	54.0	-14.5	1.00 H	208	-3.60	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.0 PK	74.0	-10.0	1.75 V	20	28.30	35.70
2	2390.00	52.6 AV	54.0	-1.4	1.75 V	20	16.90	35.70
3	*2412.00	114.4 PK			1.36 V	16	78.60	35.80
4	*2412.00	110.7 AV			1.36 V	16	74.90	35.80
5	4824.00	51.0 PK	74.0	-23.0	1.00 V	7	7.90	43.10
6	4824.00	41.9 AV	54.0	-12.1	1.00 V	7	-1.20	43.10

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.8 PK			1.00 H	206	62.00	35.80
2	*2437.00	94.2 AV			1.00 H	206	58.40	35.80
3	4874.00	52.8 PK	74.0	-21.2	1.00 H	206	9.60	43.20
4	4874.00	47.3 AV	54.0	-6.7	1.00 H	206	4.10	43.20
5	7311.00	54.7 PK	74.0	-19.3	1.00 H	199	7.00	47.70
6	7311.00	44.6 AV	54.0	-9.4	1.00 H	199	-3.10	47.70
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	*2437.00	116.8 PK			1.34 V	13	81.00	35.80
2	*2437.00	113.1 AV			1.34 V	13	77.30	35.80
3	2483.50	64.1 PK	74.0	-9.9	1.11 V	16	28.20	35.90
4	2483.50	52.8 AV	54.0	-1.2	1.11 V	16	16.90	35.90
5	4874.00	54.1 PK	74.0	-19.9	1.61 V	11	10.90	43.20
6	4874.00	50.7 AV	54.0	-3.3	1.61 V	11	7.50	43.20
7	7311.00	56.9 PK	74.0	-17.1	1.00 V	51	9.20	47.70
8	7311.00	50.2 AV	54.0	-3.8	1.00 V	51	2.50	47.70

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.



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

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	94.2 PK			1.00 H	197	58.30	35.90
2	*2462.00	90.9 AV			1.00 H	197	55.00	35.90
3	2483.50	60.7 PK	74.0	-13.3	1.08 H	70	24.80	35.90
4	2483.50	48.5 AV	54.0	-5.5	1.08 H	70	12.60	35.90
5	4924.00	50.8 PK	74.0	-23.2	1.00 H	207	7.40	43.40
6	4924.00	40.6 AV	54.0	-13.4	1.00 H	207	-2.80	43.40
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	*2462.00	112.9 PK			1.30 V	17	77.00	35.90
2	*2462.00	109.3 AV			1.30 V	17	73.40	35.90
3	2483.50	65.0 PK	74.0	-9.0	1.11 V	17	29.10	35.90
4	2483.50	52.4 AV	54.0	-1.6	1.11 V	17	16.50	35.90
5	4924.00	53.0 PK	74.0	-21.0	1.46 V	16	9.60	43.40
6	4924.00	47.3 AV	54.0	-6.7	1.46 V	16	3.90	43.40

REMARKS:

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



A D T

802.11g

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

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	59.3 PK	74.0	-14.7	1.06 H	233	23.60	35.70
2	2390.00	48.4 AV	54.0	-5.6	1.06 H	233	12.70	35.70
3	*2412.00	96.9 PK			1.02 H	339	61.10	35.80
4	*2412.00	83.7 AV			1.02 H	339	47.90	35.80
5	4824.00	48.0 PK	74.0	-26.0	1.03 H	124	4.90	43.10
6	4824.00	35.4 AV	54.0	-18.6	1.03 H	124	-7.70	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.0 PK	74.0	-5.0	1.81 V	11	33.30	35.70
2	2390.00	52.6 AV	54.0	-1.4	1.81 V	11	16.90	35.70
3	*2412.00	113.6 PK			1.10 V	16	77.80	35.80
4	*2412.00	102.9 AV			1.10 V	16	67.10	35.80
5	4824.00	48.6 PK	74.0	-25.4	1.00 V	142	5.50	43.10
6	4824.00	38.8 AV	54.0	-15.2	1.00 V	142	-4.30	43.10

REMARKS:

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



A D T

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

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	99.1 PK			1.03 H	336	63.30	35.80
2	*2437.00	88.5 AV			1.03 H	336	52.70	35.80
3	4874.00	48.4 PK	74.0	-25.6	1.07 H	151	5.20	43.20
4	4874.00	35.8 AV	54.0	-18.2	1.07 H	151	-7.40	43.20
5	7311.00	54.8 PK	74.0	-19.2	1.00 H	199	7.10	47.70
6	7311.00	41.2 AV	54.0	-12.8	1.00 H	199	-6.50	47.70
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	*2437.00	116.7 PK			1.10 V	15	80.90	35.80
2	*2437.00	105.7 AV			1.10 V	15	69.90	35.80
3	4874.00	53.1 PK	74.0	-20.9	1.00 V	11	9.90	43.20
4	4874.00	38.8 AV	54.0	-15.2	1.00 V	11	-4.40	43.20
5	7311.00	54.6 PK	74.0	-19.4	1.30 V	52	6.90	47.70
6	7311.00	42.1 AV	54.0	-11.9	1.30 V	52	-5.60	47.70

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.



A D T

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	96.3 PK			1.00 H	341	60.40	35.90
2	*2462.00	87.2 AV			1.00 H	341	51.30	35.90
3	2483.50	65.2 PK	74.0	-8.8	1.22 H	22	29.30	35.90
4	2483.50	49.4 AV	54.0	-4.6	1.22 H	22	13.50	35.90
5	4924.00	48.2 PK	74.0	-25.8	1.10 H	201	4.80	43.40
6	4924.00	35.6 AV	54.0	-18.4	1.10 H	201	-7.80	43.40
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	*2462.00	113.7 PK			1.11 V	14	77.80	35.90
2	*2462.00	103.0 AV			1.11 V	14	67.10	35.90
3	2483.50	70.9 PK	74.0	-3.1	1.65 V	15	35.00	35.90
4	2483.50	53.0 AV	54.0	-1.0	1.65 V	15	17.10	35.90
5	4924.00	51.6 PK	74.0	-22.4	1.08 V	68	8.20	43.40
6	4924.00	38.9 AV	54.0	-15.1	1.08 V	68	-4.50	43.40

REMARKS:

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



A D T

802.11n (20MHz)

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

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	60.0 PK	74.0	-14.0	1.09 H	283	24.30	35.70
2	2390.00	48.3 AV	54.0	-5.7	1.09 H	283	12.60	35.70
3	*2412.00	94.0 PK			1.00 H	217	58.20	35.80
4	*2412.00	84.5 AV			1.00 H	217	48.70	35.80
5	4824.00	48.9 PK	74.0	-25.1	1.35 H	187	5.80	43.10
6	4824.00	35.4 AV	54.0	-18.6	1.35 H	187	-7.70	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.0 PK	74.0	-1.0	1.35 V	20	37.30	35.70
2	2390.00	52.9 AV	54.0	-1.1	1.35 V	20	17.20	35.70
3	*2412.00	111.8 PK			1.14 V	15	76.00	35.80
4	*2412.00	102.0 AV			1.14 V	15	66.20	35.80
5	4824.00	51.4 PK	74.0	-22.6	1.09 V	138	8.30	43.10
6	4824.00	38.8 AV	54.0	-15.2	1.09 V	138	-4.30	43.10

REMARKS:

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



A D T

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.9 PK			1.00 H	336	62.10	35.80
2	*2437.00	88.4 AV			1.00 H	336	52.60	35.80
3	4874.00	48.8 PK	74.0	-25.2	1.05 H	260	5.60	43.20
4	4874.00	35.8 AV	54.0	-18.2	1.05 H	260	-7.40	43.20
5	7311.00	52.7 PK	74.0	-21.3	1.09 H	317	5.00	47.70
6	7311.00	39.6 AV	54.0	-14.4	1.09 H	317	-8.10	47.70
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	*2437.00	115.5 PK			1.11 V	15	79.70	35.80
2	*2437.00	105.2 AV			1.11 V	15	69.40	35.80
3	2483.50	69.0 PK	74.0	-5.0	1.09 V	13	33.10	35.90
4	2483.50	52.9 AV	54.0	-1.1	1.09 V	13	17.00	35.90
5	4874.00	52.0 PK	74.0	-22.0	1.00 V	10	8.80	43.20
6	4874.00	37.6 AV	54.0	-16.4	1.00 V	10	-5.60	43.20
7	7311.00	54.5 PK	74.0	-19.5	1.00 V	199	6.80	47.70
8	7311.00	41.8 AV	54.0	-12.2	1.00 V	199	-5.90	47.70

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.



A D T

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

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	93.4 PK			1.00 H	341	57.50	35.90
2	*2462.00	82.7 AV			1.00 H	341	46.80	35.90
3	2483.50	59.7 PK	74.0	-14.3	1.04 H	16	23.80	35.90
4	2483.50	48.4 AV	54.0	-5.6	1.04 H	16	12.50	35.90
5	4924.00	49.7 PK	74.0	-24.3	1.44 H	198	6.30	43.40
6	4924.00	35.6 AV	54.0	-18.4	1.44 H	198	-7.80	43.40
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	*2462.00	111.0 PK			1.12 V	11	75.10	35.90
2	*2462.00	100.3 AV			1.12 V	11	64.40	35.90
3	2483.50	70.8 PK	74.0	-3.2	1.61 V	14	34.90	35.90
4	2483.50	51.9 AV	54.0	-2.1	1.61 V	14	16.00	35.90
5	4924.00	48.4 PK	74.0	-25.6	1.10 V	115	5.00	43.40
6	4924.00	38.5 AV	54.0	-15.5	1.10 V	115	-4.90	43.40

REMARKS:

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



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	59.9 PK	74.0	-14.1	1.04 H	320	24.20	35.70
2	2390.00	48.3 AV	54.0	-5.7	1.04 H	320	12.60	35.70
3	*2422.00	91.1 PK			1.05 H	341	55.30	35.80
4	*2422.00	80.8 AV			1.05 H	341	45.00	35.80
5	4844.00	49.1 PK	74.0	-24.9	1.32 H	184	5.90	43.20
6	4844.00	35.5 AV	54.0	-18.5	1.32 H	184	-7.70	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.8 PK	74.0	-4.2	1.15 V	13	34.10	35.70
2	2390.00	52.8 AV	54.0	-1.2	1.15 V	13	17.10	35.70
3	*2422.00	106.9 PK			1.12 V	11	71.10	35.80
4	*2422.00	96.6 AV			1.12 V	11	60.80	35.80
5	4844.00	51.8 PK	74.0	-22.2	1.07 V	268	8.60	43.20
6	4844.00	38.7 AV	54.0	-15.3	1.07 V	268	-4.50	43.20

REMARKS:

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



A D T

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

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	91.4 PK			1.02 H	344	55.60	35.80
2	*2437.00	81.5 AV			1.02 H	344	45.70	35.80
3	2483.50	60.5 PK	74.0	-13.5	1.04 H	328	24.60	35.90
4	2483.50	49.4 AV	54.0	-4.6	1.04 H	328	13.50	35.90
5	4874.00	48.6 PK	74.0	-25.4	1.42 H	209	5.40	43.20
6	4874.00	35.2 AV	54.0	-18.8	1.42 H	209	-8.00	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.6 PK			1.13 V	11	72.80	35.80
2	*2437.00	98.1 AV			1.13 V	11	62.30	35.80
3	2483.50	71.1 PK	74.0	-2.9	1.00 V	13	35.20	35.90
4	2483.50	53.0 AV	54.0	-1.0	1.00 V	13	17.10	35.90
5	4874.00	51.4 PK	74.0	-22.6	1.03 V	289	8.20	43.20
6	4874.00	38.6 AV	54.0	-15.4	1.03 V	289	-4.60	43.20

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	90.1 PK			1.00 H	338	54.20	35.90
2	*2452.00	79.2 AV			1.00 H	338	43.30	35.90
3	2483.50	60.5 PK	74.0	-13.5	1.07 H	197	24.60	35.90
4	2483.50	48.3 AV	54.0	-5.7	1.07 H	197	12.40	35.90
5	4904.00	48.6 PK	74.0	-25.4	1.47 H	214	5.30	43.30
6	4904.00	35.6 AV	54.0	-18.4	1.47 H	214	-7.70	43.30
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	104.7 PK			1.08 V	13	68.80	35.90
2	*2452.00	94.5 AV			1.08 V	13	58.60	35.90
3	2483.50	71.7 PK	74.0	-2.3	1.11 V	12	35.80	35.90
4	2483.50	52.9 AV	54.0	-1.1	1.11 V	12	17.00	35.90
5	4904.00	52.2 PK	74.0	-21.8	1.62 V	136	8.90	43.30
6	4904.00	38.6 AV	54.0	-15.4	1.62 V	136	-4.70	43.30

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
5. “ * ”: Fundamental frequency.



A D T

TEST MODE C

802.11b

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

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	60.4 PK	74.0	-13.6	1.08 H	216	24.70	35.70
2	2390.00	48.7 AV	54.0	-5.3	1.08 H	216	13.00	35.70
3	*2412.00	106.1 PK			1.44 H	83	70.30	35.80
4	*2412.00	102.6 AV			1.44 H	83	66.80	35.80
5	4824.00	49.0 PK	74.0	-25.0	1.00 H	189	5.90	43.10
6	4824.00	37.0 AV	54.0	-17.0	1.00 H	189	-6.10	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2333.00	62.3 PK	74.0	-11.7	1.11 V	20	26.80	35.50
2	2333.00	52.5 AV	54.0	-1.5	1.11 V	20	17.00	35.50
3	2390.00	62.7 PK	74.0	-11.3	1.11 V	20	27.00	35.70
4	2390.00	50.8 AV	54.0	-3.2	1.11 V	20	15.10	35.70
5	*2412.00	116.1 PK			1.00 V	0	80.30	35.80
6	*2412.00	113.1 AV			1.00 V	0	77.30	35.80
7	2495.00	64.6 PK	74.0	-9.4	1.00 V	360	28.60	36.00
8	2495.00	53.0 AV	54.0	-1.0	1.00 V	360	17.00	36.00
9	4824.00	50.2 PK	74.0	-23.8	1.00 V	9	7.10	43.10
10	4824.00	40.4 AV	54.0	-13.6	1.00 V	9	-2.70	43.10

REMARKS:

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



A D T

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

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	100.9 PK			1.00 H	157	65.10	35.80
2	*2437.00	97.9 AV			1.00 H	157	62.10	35.80
3	4874.00	49.3 PK	74.0	-24.7	1.00 H	194	6.10	43.20
4	4874.00	38.1 AV	54.0	-15.9	1.00 H	194	-5.10	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2359.00	62.1 PK	74.0	-11.9	1.14 V	22	26.50	35.60
2	2359.00	51.8 AV	54.0	-2.2	1.14 V	22	16.20	35.60
3	*2437.00	117.0 PK			1.08 V	10	81.20	35.80
4	*2437.00	113.0 AV			1.08 V	10	77.20	35.80
5	4874.00	52.1 PK	74.0	-21.9	1.06 V	343	8.90	43.20
6	4874.00	45.4 AV	54.0	-8.6	1.06 V	343	2.20	43.20

REMARKS:

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



A D T

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

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	100.9 PK			1.52 H	13	65.00	35.90
2	*2462.00	97.3 AV			1.52 H	13	61.40	35.90
3	2483.50	60.0 PK	74.0	-14.0	1.00 H	214	24.10	35.90
4	2483.50	48.4 AV	54.0	-5.6	1.00 H	214	12.50	35.90
5	4924.00	49.6 PK	74.0	-24.4	1.00 H	0	6.20	43.40
6	4924.00	38.4 AV	54.0	-15.6	1.00 H	0	-5.00	43.40
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	2384.00	62.2 PK	74.0	-11.8	1.00 V	357	26.50	35.70
2	2384.00	52.0 AV	54.0	-2.0	1.00 V	357	16.30	35.70
3	*2462.00	117.5 PK			1.09 V	27	81.60	35.90
4	*2462.00	113.6 AV			1.09 V	27	77.70	35.90
5	2483.50	64.2 PK	74.0	-9.8	1.00 V	24	28.30	35.90
6	2483.50	53.0 AV	54.0	-1.0	1.00 V	24	17.10	35.90
7	4924.00	52.5 PK	74.0	-21.5	1.03 V	334	9.10	43.40
8	4924.00	45.3 AV	54.0	-8.7	1.03 V	334	1.90	43.40

REMARKS:

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



A D T

802.11g

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

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	60.1 PK	74.0	-13.9	1.00 H	14	24.40	35.70
2	2390.00	49.2 AV	54.0	-4.8	1.00 H	14	13.50	35.70
3	*2412.00	102.9 PK			1.43 H	81	67.10	35.80
4	*2412.00	93.2 AV			1.43 H	81	57.40	35.80
5	4824.00	48.3 PK	74.0	-25.7	1.00 H	236	5.20	43.10
6	4824.00	35.1 AV	54.0	-18.9	1.00 H	236	-8.00	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.1 PK	74.0	-4.9	1.00 V	21	33.40	35.70
2	2390.00	52.2 AV	54.0	-1.8	1.00 V	21	16.50	35.70
3	*2412.00	115.1 PK			1.15 V	20	79.30	35.80
4	*2412.00	105.1 AV			1.15 V	20	69.30	35.80
5	4824.00	51.7 PK	74.0	-22.3	1.00 V	214	8.60	43.10
6	4824.00	38.1 AV	54.0	-15.9	1.00 V	214	-5.00	43.10

REMARKS:

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



A D T

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

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	100.7 PK			1.00 H	158	64.90	35.80
2	*2437.00	91.0 AV			1.00 H	158	55.20	35.80
3	4874.00	48.1 PK	74.0	-25.9	1.04 H	325	4.90	43.20
4	4874.00	35.2 AV	54.0	-18.8	1.04 H	325	-8.00	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.3 PK			1.00 V	14	78.50	35.80
2	*2437.00	104.1 AV			1.00 V	14	68.30	35.80
3	4874.00	51.3 PK	74.0	-22.7	1.55 V	248	8.10	43.20
4	4874.00	38.5 AV	54.0	-15.5	1.55 V	248	-4.70	43.20

REMARKS:

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



A D T

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

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	98.2 PK			1.00 H	17	62.30	35.90
2	*2462.00	88.0 AV			1.00 H	17	52.10	35.90
3	2483.50	59.6 PK	74.0	-14.4	1.05 H	108	23.70	35.90
4	2483.50	48.9 AV	54.0	-5.1	1.05 H	108	13.00	35.90
5	4924.00	48.8 PK	74.0	-25.2	1.35 H	335	5.40	43.40
6	4924.00	35.6 AV	54.0	-18.4	1.35 H	335	-7.80	43.40
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	*2462.00	111.9 PK			1.00 V	360	76.00	35.90
2	*2462.00	102.4 AV			1.00 V	360	66.50	35.90
3	2483.50	71.8 PK	74.0	-2.2	1.00 V	21	35.90	35.90
4	2483.50	51.5 AV	54.0	-2.5	1.00 V	21	15.60	35.90
5	4924.00	52.7 PK	74.0	-21.3	1.36 V	185	9.30	43.40
6	4924.00	38.3 AV	54.0	-15.7	1.36 V	185	-5.10	43.40

REMARKS:

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



A D T

802.11n (20MHz)

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

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	65.6 PK	74.0	-8.4	1.65 H	310	29.90	35.70
2	2390.00	49.2 AV	54.0	-4.8	1.65 H	310	13.50	35.70
3	*2412.00	105.3 PK			1.70 H	305	69.50	35.80
4	*2412.00	94.5 AV			1.70 H	305	58.70	35.80
5	4824.00	48.2 PK	74.0	-25.8	1.05 H	325	5.10	43.10
6	4824.00	35.4 AV	54.0	-18.6	1.05 H	325	-7.70	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.0 PK	74.0	-1.0	1.10 V	28	37.30	35.70
2	2390.00	51.9 AV	54.0	-2.1	1.10 V	28	16.20	35.70
3	*2412.00	114.6 PK			1.17 V	12	78.80	35.80
4	*2412.00	104.3 AV			1.17 V	12	68.50	35.80
5	4824.00	49.0 PK	74.0	-25.0	1.00 V	124	5.90	43.10
6	4824.00	39.3 AV	54.0	-14.7	1.00 V	124	-3.80	43.10

REMARKS:

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



A D T

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

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	101.5 PK			1.00 H	248	65.70	35.80
2	*2437.00	91.1 AV			1.00 H	248	55.30	35.80
3	4874.00	49.6 PK	74.0	-24.4	1.74 H	261	6.40	43.20
4	4874.00	35.5 AV	54.0	-18.5	1.74 H	261	-7.70	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.2 PK			1.18 V	10	79.40	35.80
2	*2437.00	104.8 AV			1.18 V	10	69.00	35.80
3	4874.00	52.6 PK	74.0	-21.4	1.36 V	57	9.40	43.20
4	4874.00	38.9 AV	54.0	-15.1	1.36 V	57	-4.30	43.20

REMARKS:

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



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

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	99.2 PK			1.03 H	193	63.30	35.90
2	*2462.00	89.6 AV			1.03 H	193	53.70	35.90
3	2483.50	60.3 PK	74.0	-13.7	1.03 H	322	24.40	35.90
4	2483.50	48.5 AV	54.0	-5.5	1.03 H	322	12.60	35.90
5	4924.00	48.8 PK	74.0	-25.2	1.25 H	52	5.40	43.40
6	4924.00	35.6 AV	54.0	-18.4	1.25 H	52	-7.80	43.40
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	*2462.00	113.6 PK			1.12 V	16	77.70	35.90
2	*2462.00	103.5 AV			1.12 V	16	67.60	35.90
3	2483.50	72.7 PK	74.0	-1.3	1.00 V	24	36.80	35.90
4	2483.50	52.9 AV	54.0	-1.1	1.00 V	24	17.00	35.90
5	4924.00	52.2 PK	74.0	-21.8	1.45 V	163	8.80	43.40
6	4924.00	39.7 AV	54.0	-14.3	1.45 V	163	-3.70	43.40

REMARKS:

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



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	60.2 PK	74.0	-13.8	1.00 H	250	24.50	35.70
2	2390.00	48.5 AV	54.0	-5.5	1.00 H	250	12.80	35.70
3	*2422.00	96.0 PK			1.00 H	248	60.20	35.80
4	*2422.00	85.0 AV			1.00 H	248	49.20	35.80
5	4844.00	48.1 PK	74.0	-25.9	1.00 H	41	4.90	43.20
6	4844.00	35.4 AV	54.0	-18.6	1.00 H	41	-7.80	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.2 PK	74.0	-3.8	1.24 V	13	34.50	35.70
2	2390.00	53.0 AV	54.0	-1.0	1.24 V	13	17.30	35.70
3	*2422.00	110.5 PK			1.00 V	7	74.70	35.80
4	*2422.00	99.0 AV			1.00 V	7	63.20	35.80
5	4844.00	51.3 PK	74.0	-22.7	1.05 V	224	8.10	43.20
6	4844.00	38.9 AV	54.0	-15.1	1.05 V	224	-4.30	43.20

REMARKS:

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



A D T

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

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	96.2 PK			1.00 H	173	60.40	35.80
2	*2437.00	86.8 AV			1.00 H	173	51.00	35.80
3	4874.00	48.7 PK	74.0	-25.3	1.00 H	33	5.50	43.20
4	4874.00	35.5 AV	54.0	-18.5	1.00 H	33	-7.70	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.8 PK			1.00 V	13	74.00	35.80
2	*2437.00	100.3 AV			1.00 V	13	64.50	35.80
3	2483.50	70.8 PK	74.0	-3.2	1.00 V	14	34.90	35.90
4	2483.50	53.0 AV	54.0	-1.0	1.00 V	14	17.10	35.90
5	4874.00	53.0 PK	74.0	-21.0	1.08 V	132	9.80	43.20
6	4874.00	38.5 AV	54.0	-15.5	1.08 V	132	-4.70	43.20

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	91.7 PK			1.00 H	172	55.80	35.90
2	*2452.00	82.3 AV			1.00 H	172	46.40	35.90
3	2483.50	60.5 PK	74.0	-13.5	1.00 H	168	24.60	35.90
4	2483.50	48.3 AV	54.0	-5.7	1.00 H	168	12.40	35.90
5	4904.00	48.6 PK	74.0	-25.4	1.39 H	208	5.30	43.30
6	4904.00	35.6 AV	54.0	-18.4	1.39 H	208	-7.70	43.30
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	106.6 PK			1.13 V	17	70.70	35.90
2	*2452.00	95.8 AV			1.13 V	17	59.90	35.90
3	2483.50	71.2 PK	74.0	-2.8	1.00 V	0	35.30	35.90
4	2483.50	53.0 AV	54.0	-1.0	1.00 V	0	17.10	35.90
5	4904.00	52.4 PK	74.0	-21.6	1.32 V	184	9.10	43.30
6	4904.00	38.6 AV	54.0	-15.4	1.32 V	184	-4.70	43.30

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
5. “ * “: Fundamental frequency.



A D T

TEST MODE D

802.11b

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

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	60.0 PK	74.0	-14.0	1.10 H	230	24.30	35.70
2	2390.00	48.9 AV	54.0	-5.1	1.10 H	230	13.20	35.70
3	*2412.00	109.3 PK			1.08 H	217	73.50	35.80
4	*2412.00	105.5 AV			1.08 H	217	69.70	35.80
5	4824.00	48.8 PK	74.0	-25.2	1.15 H	88	5.70	43.10
6	4824.00	38.3 AV	54.0	-15.7	1.15 H	88	-4.80	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.8 PK	74.0	-12.2	1.00 V	9	26.10	35.70
2	2390.00	52.6 AV	54.0	-1.4	1.00 V	9	16.90	35.70
3	*2412.00	114.9 PK			1.00 V	9	79.10	35.80
4	*2412.00	111.9 AV			1.00 V	9	76.10	35.80
5	4824.00	49.5 PK	74.0	-24.5	1.00 V	123	6.40	43.10
6	4824.00	40.4 AV	54.0	-13.6	1.00 V	123	-2.70	43.10

REMARKS:

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



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

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	110.4 PK			1.07 H	220	74.60	35.80
2	*2437.00	107.0 AV			1.07 H	220	71.20	35.80
3	4874.00	54.2 PK	74.0	-19.8	1.00 H	47	11.00	43.20
4	4874.00	49.4 AV	54.0	-4.6	1.00 H	47	6.20	43.20
5	7311.00	54.3 PK	74.0	-19.7	1.55 H	179	6.60	47.70
6	7311.00	43.9 AV	54.0	-10.1	1.55 H	179	-3.80	47.70
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	2353.00	61.2 PK	74.0	-12.8	1.00 V	192	25.60	35.60
2	2353.00	51.7 AV	54.0	-2.3	1.00 V	192	16.10	35.60
3	*2437.00	117.6 PK			1.00 V	212	81.80	35.80
4	*2437.00	113.8 AV			1.00 V	212	78.00	35.80
5	4874.00	56.1 PK	74.0	-17.9	1.00 V	196	12.90	43.20
6	4874.00	52.5 AV	54.0	-1.5	1.00 V	196	9.30	43.20
7	7311.00	56.2 PK	74.0	-17.8	1.59 V	246	8.50	47.70
8	7311.00	47.7 AV	54.0	-6.3	1.59 V	246	0.00	47.70

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.



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

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	107.9 PK			1.05 H	221	72.00	35.90
2	*2462.00	104.3 AV			1.05 H	221	68.40	35.90
3	2483.50	60.5 PK	74.0	-13.5	1.05 H	304	24.60	35.90
4	2483.50	49.0 AV	54.0	-5.0	1.05 H	304	13.10	35.90
5	4924.00	51.8 PK	74.0	-22.2	1.00 H	25	8.40	43.40
6	4924.00	44.0 AV	54.0	-10.0	1.00 H	25	0.60	43.40
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	2390.00	61.8 PK	74.0	-12.2	1.00 V	20	26.10	35.70
2	2390.00	51.8 AV	54.0	-2.2	1.00 V	20	16.10	35.70
3	*2462.00	115.7 PK			1.17 V	202	79.80	35.90
4	*2462.00	111.8 AV			1.17 V	202	75.90	35.90
5	2483.50	62.8 PK	74.0	-11.2	1.00 V	213	26.90	35.90
6	2483.50	53.0 AV	54.0	-1.0	1.00 V	213	17.10	35.90
7	4924.00	54.8 PK	74.0	-19.2	1.00 V	193	11.40	43.40
8	4924.00	50.7 AV	54.0	-3.3	1.00 V	193	7.30	43.40

REMARKS:

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



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802.11g

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

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	59.8 PK	74.0	-14.2	1.11 H	23	24.10	35.70
2	2390.00	49.0 AV	54.0	-5.0	1.11 H	23	13.30	35.70
3	*2412.00	107.5 PK			1.10 H	194	71.70	35.80
4	*2412.00	97.2 AV			1.10 H	194	61.40	35.80
5	4824.00	48.5 PK	74.0	-25.5	1.05 H	66	5.40	43.10
6	4824.00	35.5 AV	54.0	-18.5	1.05 H	66	-7.60	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.1 PK	74.0	-2.9	1.00 V	183	35.40	35.70
2	2390.00	53.0 AV	54.0	-1.0	1.00 V	183	17.30	35.70
3	*2412.00	114.1 PK			1.00 V	349	78.30	35.80
4	*2412.00	104.1 AV			1.00 V	349	68.30	35.80
5	4824.00	51.3 PK	74.0	-22.7	1.08 V	238	8.20	43.10
6	4824.00	38.5 AV	54.0	-15.5	1.08 V	238	-4.60	43.10

REMARKS:

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



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

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	59.5 PK	74.0	-14.5	1.10 H	142	23.80	35.70
2	2390.00	48.6 AV	54.0	-5.4	1.10 H	142	12.90	35.70
3	*2437.00	112.3 PK			1.06 H	217	76.50	35.80
4	*2437.00	102.6 AV			1.06 H	217	66.80	35.80
5	2483.50	60.5 PK	74.0	-13.5	1.07 H	245	24.60	35.90
6	2483.50	49.2 AV	54.0	-4.8	1.07 H	245	13.30	35.90
7	4874.00	51.7 PK	74.0	-22.3	1.00 H	49	8.50	43.20
8	4874.00	38.3 AV	54.0	-15.7	1.00 H	49	-4.90	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.5 PK	74.0	-8.5	1.00 V	20	29.80	35.70
2	2390.00	52.4 AV	54.0	-1.6	1.00 V	20	16.70	35.70
3	*2437.00	118.7 PK			1.00 V	15	82.90	35.80
4	*2437.00	108.4 AV			1.00 V	15	72.60	35.80
5	2483.50	67.6 PK	74.0	-6.4	1.18 V	243	31.70	35.90
6	2483.50	53.0 AV	54.0	-1.0	1.18 V	243	17.10	35.90
7	4874.00	56.9 PK	74.0	-17.1	1.00 V	151	13.70	43.20
8	4874.00	41.4 AV	54.0	-12.6	1.00 V	151	-1.80	43.20

REMARKS:

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



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

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	104.9 PK			1.06 H	210	69.00	35.90
2	*2462.00	94.7 AV			1.06 H	210	58.80	35.90
3	2483.50	59.9 PK	74.0	-14.1	1.23 H	317	24.00	35.90
4	2483.50	48.8 AV	54.0	-5.2	1.23 H	317	12.90	35.90
5	4924.00	48.3 PK	74.0	-25.7	1.24 H	116	4.90	43.40
6	4924.00	36.3 AV	54.0	-17.7	1.24 H	116	-7.10	43.40
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	*2462.00	111.8 PK			1.00 V	350	75.90	35.90
2	*2462.00	102.2 AV			1.00 V	350	66.30	35.90
3	2483.50	72.8 PK	74.0	-1.2	1.15 V	153	36.90	35.90
4	2483.50	51.7 AV	54.0	-2.3	1.15 V	153	15.80	35.90
5	4924.00	51.7 PK	74.0	-22.3	1.06 V	333	8.30	43.40
6	4924.00	39.1 AV	54.0	-14.9	1.06 V	333	-4.30	43.40

REMARKS:

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



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802.11n (20MHz)

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

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	59.3 PK	74.0	-14.7	1.58 H	300	23.60	35.70
2	2390.00	47.5 AV	54.0	-6.5	1.58 H	300	11.80	35.70
3	*2412.00	104.1 PK			1.38 H	286	68.30	35.80
4	*2412.00	94.9 AV			1.38 H	286	59.10	35.80
5	4824.00	48.3 PK	74.0	-25.7	1.15 H	62	5.20	43.10
6	4824.00	35.1 AV	54.0	-18.9	1.15 H	62	-8.00	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.1 PK	74.0	-1.9	1.00 V	10	36.40	35.70
2	2390.00	51.0 AV	54.0	-3.0	1.00 V	10	15.30	35.70
3	*2412.00	111.6 PK			1.00 V	46	75.80	35.80
4	*2412.00	102.5 AV			1.00 V	46	66.70	35.80
5	4824.00	50.4 PK	74.0	-23.6	1.24 V	67	7.30	43.10
6	4824.00	37.4 AV	54.0	-16.6	1.24 V	67	-5.70	43.10

REMARKS:

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



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

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	59.1 PK	74.0	-14.9	1.36 H	137	23.40	35.70
2	2390.00	47.7 AV	54.0	-6.3	1.36 H	137	12.00	35.70
3	*2437.00	107.0 PK			1.24 H	123	71.20	35.80
4	*2437.00	97.6 AV			1.24 H	123	61.80	35.80
5	2483.50	59.5 PK	74.0	-14.5	1.44 H	147	23.60	35.90
6	2483.50	47.9 AV	54.0	-6.1	1.44 H	147	12.00	35.90
7	4874.00	48.2 PK	74.0	-25.8	1.09 H	208	5.00	43.20
8	4874.00	35.5 AV	54.0	-18.5	1.09 H	208	-7.70	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.0 PK	74.0	-9.0	1.00 V	11	29.30	35.70
2	2390.00	51.1 AV	54.0	-2.9	1.00 V	11	15.40	35.70
3	*2437.00	116.1 PK			1.00 V	151	80.30	35.80
4	*2437.00	106.6 AV			1.00 V	151	70.80	35.80
5	2483.50	69.6 PK	74.0	-4.4	1.00 V	150	33.70	35.90
6	2483.50	53.0 AV	54.0	-1.0	1.00 V	150	17.10	35.90
7	4874.00	50.4 PK	74.0	-23.6	1.18 V	62	7.20	43.20
8	4874.00	37.5 AV	54.0	-16.5	1.18 V	62	-5.70	43.20

REMARKS:

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



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

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	102.3 PK			1.27 H	94	66.40	35.90
2	*2462.00	91.8 AV			1.27 H	94	55.90	35.90
3	2483.50	59.8 PK	74.0	-14.2	1.16 H	113	23.90	35.90
4	2483.50	48.1 AV	54.0	-5.9	1.16 H	113	12.20	35.90
5	4924.00	48.7 PK	74.0	-25.3	1.18 H	52	5.30	43.40
6	4924.00	35.3 AV	54.0	-18.7	1.18 H	52	-8.10	43.40
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	*2462.00	109.3 PK			1.00 V	154	73.40	35.90
2	*2462.00	100.7 AV			1.00 V	154	64.80	35.90
3	2483.50	72.5 PK	74.0	-1.5	1.20 V	16	36.60	35.90
4	2483.50	51.1 AV	54.0	-2.9	1.20 V	16	15.20	35.90
5	4924.00	50.9 PK	74.0	-23.1	1.16 V	308	7.50	43.40
6	4924.00	37.8 AV	54.0	-16.2	1.16 V	308	-5.60	43.40

REMARKS:

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



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802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	62.5 PK	74.0	-11.5	1.36 H	300	26.80	35.70
2	2390.00	48.2 AV	54.0	-5.8	1.36 H	300	12.50	35.70
3	*2422.00	101.2 PK			1.29 H	282	65.40	35.80
4	*2422.00	91.7 AV			1.29 H	282	55.90	35.80
5	4844.00	48.1 PK	74.0	-25.9	1.33 H	208	4.90	43.20
6	4844.00	35.6 AV	54.0	-18.4	1.33 H	208	-7.60	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.6 PK	74.0	-6.4	1.00 V	341	31.90	35.70
2	2390.00	52.7 AV	54.0	-1.3	1.00 V	341	17.00	35.70
3	*2422.00	107.2 PK			1.00 V	35	71.40	35.80
4	*2422.00	97.7 AV			1.00 V	35	61.90	35.80
5	4844.00	50.7 PK	74.0	-23.3	1.39 V	208	7.50	43.20
6	4844.00	37.8 AV	54.0	-16.2	1.39 V	208	-5.40	43.20

REMARKS:

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



A D T

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

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	58.9 PK	74.0	-15.1	1.30 H	300	23.20	35.70
2	2390.00	48.6 AV	54.0	-5.4	1.30 H	300	12.90	35.70
3	*2437.00	103.9 PK			1.26 H	281	68.10	35.80
4	*2437.00	93.0 AV			1.26 H	281	57.20	35.80
5	2483.50	62.2 PK	74.0	-11.8	1.20 H	250	26.30	35.90
6	2483.50	48.2 AV	54.0	-5.8	1.20 H	250	12.30	35.90
7	4874.00	48.5 PK	74.0	-25.5	1.30 H	52	5.30	43.20
8	4874.00	35.9 AV	54.0	-18.1	1.30 H	52	-7.30	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.3 PK	74.0	-9.7	1.00 V	352	28.60	35.70
2	2390.00	50.0 AV	54.0	-4.0	1.00 V	352	14.30	35.70
3	*2437.00	108.8 PK			1.00 V	38	73.00	35.80
4	*2437.00	98.9 AV			1.00 V	38	63.10	35.80
5	2483.50	70.7 PK	74.0	-3.3	1.00 V	35	34.80	35.90
6	2483.50	52.3 AV	54.0	-1.7	1.00 V	35	16.40	35.90
7	4874.00	50.9 PK	74.0	-23.1	1.13 V	208	7.70	43.20
8	4874.00	38.0 AV	54.0	-16.0	1.13 V	208	-5.20	43.20

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	100.7 PK			1.28 H	281	64.80	35.90
2	*2452.00	90.0 AV			1.28 H	281	54.10	35.90
3	2483.50	63.7 PK	74.0	-10.3	1.26 H	272	27.80	35.90
4	2483.50	49.3 AV	54.0	-4.7	1.26 H	272	13.40	35.90
5	4904.00	48.9 PK	74.0	-25.1	1.55 H	327	5.60	43.30
6	4904.00	35.9 AV	54.0	-18.1	1.55 H	327	-7.40	43.30
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	104.7 PK			1.00 V	45	68.80	35.90
2	*2452.00	95.8 AV			1.00 V	45	59.90	35.90
3	2483.50	69.1 PK	74.0	-4.9	1.00 V	13	33.20	35.90
4	2483.50	52.5 AV	54.0	-1.5	1.00 V	13	16.60	35.90
5	4904.00	50.3 PK	74.0	-23.7	1.23 V	74	7.00	43.30
6	4904.00	38.1 AV	54.0	-15.9	1.23 V	74	-5.20	43.30

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
5. “ * ”: Fundamental frequency.



A D T

TEST MODE E

802.11b

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

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	62.0 PK	74.0	-12.0	1.00 H	360	26.30	35.70
2	2390.00	52.7 AV	54.0	-1.3	1.00 H	360	17.00	35.70
3	*2412.00	116.0 PK			1.00 H	7	80.20	35.80
4	*2412.00	112.7 AV			1.00 H	7	76.90	35.80
5	4824.00	52.2 PK	74.0	-21.8	1.07 H	360	9.10	43.10
6	4824.00	45.5 AV	54.0	-8.5	1.07 H	360	2.40	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2330.00	62.4 PK	74.0	-11.6	1.17 V	348	26.90	35.50
2	2330.00	52.2 AV	54.0	-1.8	1.17 V	348	16.70	35.50
3	2390.00	61.1 PK	74.0	-12.9	1.00 V	154	25.40	35.70
4	2390.00	50.3 AV	54.0	-3.7	1.00 V	154	14.60	35.70
5	*2412.00	115.4 PK			1.09 V	332	79.60	35.80
6	*2412.00	111.5 AV			1.09 V	332	75.70	35.80
7	4824.00	52.6 PK	74.0	-21.4	1.00 V	16	9.50	43.10
8	4824.00	46.8 AV	54.0	-7.2	1.00 V	16	3.70	43.10

REMARKS:

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



A D T

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

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	2353.00	61.8 PK	74.0	-12.2	1.53 H	42	26.20	35.60
2	2353.00	52.2 AV	54.0	-1.8	1.53 H	42	16.60	35.60
3	*2437.00	116.9 PK			1.00 H	24	81.10	35.80
4	*2437.00	113.5 AV			1.00 H	24	77.70	35.80
5	4874.00	52.1 PK	74.0	-21.9	1.03 H	341	8.90	43.20
6	4874.00	45.6 AV	54.0	-8.4	1.03 H	341	2.40	43.20
7	7311.00	53.5 PK	74.0	-20.5	1.00 H	13	5.80	47.70
8	7311.00	41.9 AV	54.0	-12.1	1.00 H	13	-5.80	47.70
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	2358.00	64.0 PK	74.0	-10.0	1.16 V	10	28.40	35.60
2	2358.00	52.7 AV	54.0	-1.3	1.16 V	10	17.10	35.60
3	*2437.00	116.4 PK			1.09 V	3	80.60	35.80
4	*2437.00	112.8 AV			1.09 V	3	77.00	35.80
5	4874.00	56.2 PK	74.0	-17.8	1.00 V	350	13.00	43.20
6	4874.00	52.6 AV	54.0	-1.4	1.00 V	350	9.40	43.20
7	7311.00	54.1 PK	74.0	-19.9	1.01 V	39	6.40	47.70
8	7311.00	43.6 AV	54.0	-10.4	1.01 V	39	-4.10	47.70

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.



A D T

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

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	115.9 PK			1.00 H	0	80.00	35.90
2	*2462.00	112.2 AV			1.00 H	0	76.30	35.90
3	2483.50	63.5 PK	74.0	-10.5	1.24 H	359	27.60	35.90
4	2483.50	52.4 AV	54.0	-1.6	1.24 H	359	16.50	35.90
5	4924.00	55.1 PK	74.0	-18.9	1.03 H	3	11.70	43.40
6	4924.00	50.0 AV	54.0	-4.0	1.03 H	3	6.60	43.40
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	*2462.00	115.5 PK			1.13 V	335	79.60	35.90
2	*2462.00	111.6 AV			1.13 V	335	75.70	35.90
3	2483.50	63.5 PK	74.0	-10.5	1.14 V	340	27.60	35.90
4	2483.50	52.6 AV	54.0	-1.4	1.14 V	340	16.70	35.90
5	4924.00	54.8 PK	74.0	-19.2	1.00 V	351	11.40	43.40
6	4924.00	51.2 AV	54.0	-2.8	1.00 V	351	7.80	43.40

REMARKS:

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



A D T

802.11g

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

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	71.9 PK	74.0	-2.1	1.00 H	7	36.20	35.70
2	2390.00	52.6 AV	54.0	-1.4	1.00 H	7	16.90	35.70
3	*2412.00	113.0 PK			1.00 H	23	77.20	35.80
4	*2412.00	103.8 AV			1.00 H	23	68.00	35.80
5	2496.00	64.7 PK	74.0	-9.3	1.00 H	0	28.70	36.00
6	2496.00	53.0 AV	54.0	-1.0	1.00 H	0	17.00	36.00
7	4824.00	48.2 PK	74.0	-25.8	1.05 H	301	5.10	43.10
8	4824.00	35.6 AV	54.0	-18.4	1.05 H	301	-7.50	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.7 PK	74.0	-3.3	1.36 V	9	35.00	35.70
2	2390.00	53.0 AV	54.0	-1.0	1.36 V	9	17.30	35.70
3	*2412.00	115.7 PK			1.13 V	12	79.90	35.80
4	*2412.00	105.3 AV			1.13 V	12	69.50	35.80
5	4824.00	49.2 PK	74.0	-24.8	1.22 V	175	6.10	43.10
6	4824.00	35.7 AV	54.0	-18.3	1.22 V	175	-7.40	43.10

REMARKS:

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



A D T

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

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	62.7 PK	74.0	-11.3	1.00 H	20	27.00	35.70
2	2390.00	51.2 AV	54.0	-2.8	1.00 H	20	15.50	35.70
3	*2437.00	120.1 PK			1.25 H	166	84.30	35.80
4	*2437.00	110.7 AV			1.25 H	166	74.90	35.80
5	2483.50	65.9 PK	74.0	-8.1	1.00 H	0	30.00	35.90
6	2483.50	53.0 AV	54.0	-1.0	1.00 H	0	17.10	35.90
7	4874.00	52.6 PK	74.0	-21.4	1.07 H	30	9.40	43.20
8	4874.00	38.7 AV	54.0	-15.3	1.07 H	30	-4.50	43.20
9	7311.00	55.2 PK	74.0	-18.8	1.00 H	18	7.50	47.70
10	7311.00	41.7 AV	54.0	-12.3	1.00 H	18	-6.00	47.70
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	*2437.00	118.1 PK			1.35 V	30	82.30	35.80
2	*2437.00	108.2 AV			1.35 V	30	72.40	35.80
3	2483.50	66.4 PK	74.0	-7.6	1.12 V	4	30.50	35.90
4	2483.50	52.5 AV	54.0	-1.5	1.12 V	4	16.60	35.90
5	4874.00	53.7 PK	74.0	-20.3	1.13 V	348	10.50	43.20
6	4874.00	40.2 AV	54.0	-13.8	1.13 V	348	-3.00	43.20
7	7311.00	56.9 PK	74.0	-17.1	1.02 V	21	9.20	47.70
8	7311.00	42.7 AV	54.0	-11.3	1.02 V	21	-5.00	47.70

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.



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

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	111.3 PK			1.00 H	2	75.40	35.90
2	*2462.00	102.0 AV			1.00 H	2	66.10	35.90
3	2483.50	67.2 PK	74.0	-6.8	1.00 H	0	31.30	35.90
4	2483.50	51.6 AV	54.0	-2.4	1.00 H	0	15.70	35.90
5	4924.00	48.4 PK	74.0	-25.6	1.42 H	135	5.00	43.40
6	4924.00	35.6 AV	54.0	-18.4	1.42 H	135	-7.80	43.40
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	*2462.00	112.5 PK			1.10 V	45	76.60	35.90
2	*2462.00	103.2 AV			1.10 V	45	67.30	35.90
3	2483.50	69.8 PK	74.0	-4.2	1.09 V	12	33.90	35.90
4	2483.50	52.7 AV	54.0	-1.3	1.09 V	12	16.80	35.90
5	4924.00	52.1 PK	74.0	-21.9	1.06 V	250	8.70	43.40
6	4924.00	38.7 AV	54.0	-15.3	1.06 V	250	-4.70	43.40

REMARKS:

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



A D T

802.11n (20MHz)

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

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	72.3 PK	74.0	-1.7	1.00 H	357	36.60	35.70
2	2390.00	51.8 AV	54.0	-2.2	1.00 H	357	16.10	35.70
3	*2412.00	112.7 PK			1.00 H	21	76.90	35.80
4	*2412.00	103.3 AV			1.00 H	21	67.50	35.80
5	4824.00	49.1 PK	74.0	-24.9	1.32 H	185	6.00	43.10
6	4824.00	36.3 AV	54.0	-17.7	1.32 H	185	-6.80	43.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.7 PK	74.0	-4.3	1.14 V	6	34.00	35.70
2	2390.00	51.4 AV	54.0	-2.6	1.14 V	6	15.70	35.70
3	*2412.00	112.5 PK			1.13 V	0	76.70	35.80
4	*2412.00	102.3 AV			1.13 V	0	66.50	35.80
5	4824.00	48.4 PK	74.0	-25.6	1.06 V	150	5.30	43.10
6	4824.00	38.8 AV	54.0	-15.2	1.06 V	150	-4.30	43.10

REMARKS:

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



A D T

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

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	67.9 PK	74.0	-6.1	1.00 H	5	32.20	35.70
2	2390.00	52.2 AV	54.0	-1.8	1.00 H	5	16.50	35.70
3	*2437.00	116.5 PK			1.00 H	0	80.70	35.80
4	*2437.00	107.2 AV			1.00 H	0	71.40	35.80
5	2483.50	68.6 PK	74.0	-5.4	1.00 H	358	32.70	35.90
6	2483.50	53.0 AV	54.0	-1.0	1.00 H	358	17.10	35.90
7	4874.00	54.9 PK	74.0	-19.1	1.19 H	358	11.70	43.20
8	4874.00	40.2 AV	54.0	-13.8	1.19 H	358	-3.00	43.20
9	7311.00	56.4 PK	74.0	-17.6	1.00 H	14	8.70	47.70
10	7311.00	42.9 AV	54.0	-11.1	1.00 H	14	-4.80	47.70
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	*2437.00	117.4 PK			1.12 V	33	81.60	35.80
2	*2437.00	107.4 AV			1.12 V	33	71.60	35.80
3	2483.50	66.6 PK	74.0	-7.4	1.33 V	0	30.70	35.90
4	2483.50	52.6 AV	54.0	-1.4	1.33 V	0	16.70	35.90
5	4874.00	57.3 PK	74.0	-16.7	1.10 V	351	14.10	43.20
6	4874.00	42.7 AV	54.0	-11.3	1.10 V	351	-0.50	43.20
7	7311.00	57.5 PK	74.0	-16.5	1.00 V	12	9.80	47.70
8	7311.00	44.3 AV	54.0	-9.7	1.00 V	12	-3.40	47.70

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.



A D T

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

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	112.5 PK			1.23 H	20	76.60	35.90
2	*2462.00	102.7 AV			1.23 H	20	66.80	35.90
3	2483.50	73.0 PK	74.0	-1.0	1.00 H	20	37.10	35.90
4	2483.50	53.0 AV	54.0	-1.0	1.00 H	20	17.10	35.90
5	4924.00	52.6 PK	74.0	-21.4	1.53 H	189	9.20	43.40
6	4924.00	38.6 AV	54.0	-15.4	1.53 H	189	-4.80	43.40
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	*2462.00	111.9 PK			1.08 V	55	76.00	35.90
2	*2462.00	102.0 AV			1.08 V	55	66.10	35.90
3	2483.50	72.5 PK	74.0	-1.5	1.12 V	0	36.60	35.90
4	2483.50	52.7 AV	54.0	-1.3	1.12 V	0	16.80	35.90
5	4924.00	48.3 PK	74.0	-25.7	1.66 V	187	4.90	43.40
6	4924.00	35.3 AV	54.0	-18.7	1.66 V	187	-8.10	43.40

REMARKS:

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



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	72.5 PK	74.0	-1.5	1.00 H	17	36.80	35.70
2	2390.00	52.1 AV	54.0	-1.9	1.00 H	17	16.40	35.70
3	*2422.00	108.2 PK			1.00 H	20	72.40	35.80
4	*2422.00	99.5 AV			1.00 H	20	63.70	35.80
5	4844.00	51.6 PK	74.0	-22.4	1.54 H	311	8.40	43.20
6	4844.00	38.5 AV	54.0	-15.5	1.54 H	311	-4.70	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.0 PK	74.0	-5.0	1.17 V	0	33.30	35.70
2	2390.00	51.5 AV	54.0	-2.5	1.17 V	0	15.80	35.70
3	*2422.00	108.3 PK			1.11 V	353	72.50	35.80
4	*2422.00	99.0 AV			1.11 V	353	63.20	35.80
5	4844.00	50.9 PK	74.0	-23.1	1.03 V	134	7.70	43.20
6	4844.00	38.5 AV	54.0	-15.5	1.03 V	134	-4.70	43.20

REMARKS:

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



A D T

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

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	65.1 PK	74.0	-8.9	1.54 H	36	29.40	35.70
2	2390.00	50.7 AV	54.0	-3.3	1.54 H	36	15.00	35.70
3	*2437.00	109.1 PK			1.00 H	20	73.30	35.80
4	*2437.00	100.1 AV			1.00 H	20	64.30	35.80
5	2483.50	69.8 PK	74.0	-4.2	1.00 H	20	33.90	35.90
6	2483.50	53.0 AV	54.0	-1.0	1.00 H	20	17.10	35.90
7	4874.00	50.9 PK	74.0	-23.1	1.04 H	348	7.70	43.20
8	4874.00	38.6 AV	54.0	-15.4	1.04 H	348	-4.60	43.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.6 PK			1.61 V	0	71.80	35.80
2	*2437.00	97.9 AV			1.61 V	0	62.10	35.80
3	2483.50	67.4 PK	74.0	-6.6	1.36 V	340	31.50	35.90
4	2483.50	51.6 AV	54.0	-2.4	1.36 V	340	15.70	35.90
5	4874.00	48.2 PK	74.0	-25.8	1.54 V	332	5.00	43.20
6	4874.00	35.5 AV	54.0	-18.5	1.54 V	332	-7.70	43.20

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	106.0 PK			1.00 H	20	70.10	35.90
2	*2452.00	96.8 AV			1.00 H	20	60.90	35.90
3	2483.50	71.0 PK	74.0	-3.0	1.00 H	35	35.10	35.90
4	2483.50	52.8 AV	54.0	-1.2	1.00 H	35	16.90	35.90
5	4904.00	49.7 PK	74.0	-24.3	1.65 H	142	6.40	43.30
6	4904.00	39.3 AV	54.0	-14.7	1.65 H	142	-4.00	43.30
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	105.6 PK			1.12 V	0	69.70	35.90
2	*2452.00	95.8 AV			1.12 V	0	59.90	35.90
3	2483.50	71.1 PK	74.0	-2.9	1.10 V	5	35.20	35.90
4	2483.50	52.2 AV	54.0	-1.8	1.10 V	5	16.30	35.90
5	4904.00	48.3 PK	74.0	-25.7	1.14 V	332	5.00	43.30
6	4904.00	35.6 AV	54.0	-18.4	1.14 V	332	-7.70	43.30

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
5. “ * ”: Fundamental frequency.

BELOW 1GHz WORST-CASE DATA :

TEST MODE A

802.11b

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	Chris 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	142.67	35.1 QP	43.5	-8.4	1.24 H	8	21.40	13.70
2	239.88	38.7 QP	46.0	-7.3	1.24 H	60	26.10	12.60
3	300.16	44.7 QP	46.0	-1.3	1.00 H	154	29.70	15.00
4	335.15	38.4 QP	46.0	-7.6	1.00 H	163	22.50	15.90
5	667.63	37.0 QP	46.0	-9.0	1.24 H	214	14.30	22.70
6	700.68	44.7 QP	46.0	-1.3	1.24 H	195	21.70	23.00
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	31.6 QP	43.5	-11.9	1.00 V	78	22.20	9.40
2	166.00	29.2 QP	43.5	-14.3	1.00 V	73	15.40	13.80
3	239.88	30.0 QP	46.0	-16.0	1.00 V	126	17.40	12.60
4	300.16	39.2 QP	46.0	-6.8	1.24 V	91	24.20	15.00
5	663.74	35.5 QP	46.0	-10.5	1.00 V	65	12.80	22.70
6	836.78	37.4 QP	46.0	-8.6	1.00 V	97	11.30	26.10

REMARKS:

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



A D T

TEST MODE B

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris 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	99.84	31.8 QP	43.5	-11.7	2.00 H	191	3.20	28.60
2	225.94	32.1 QP	46.0	-13.9	1.25 H	12	3.50	28.60
3	297.72	20.6 QP	46.0	-25.4	1.00 H	331	-8.00	28.60
4	575.14	20.5 QP	46.0	-25.5	1.25 H	327	-8.10	28.60
5	701.24	25.2 QP	46.0	-20.8	1.00 H	244	-3.40	28.60
6	840.92	24.0 QP	46.0	-22.0	1.00 H	59	-4.60	28.60
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	99.84	29.2 QP	43.5	-14.3	1.00 V	244	0.60	28.60
2	224.00	28.2 QP	46.0	-17.8	1.00 V	215	-0.40	28.60
3	365.62	18.2 QP	46.0	-27.8	1.24 V	192	-10.40	28.60
4	495.60	17.9 QP	46.0	-28.1	1.00 V	211	-10.70	28.60
5	697.36	23.3 QP	46.0	-22.7	1.49 V	279	-5.30	28.60
6	840.92	22.4 QP	46.0	-23.6	1.00 V	294	-6.20	28.60

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



A D T

TEST MODE C

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris 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	99.84	37.1 QP	43.5	-6.4	1.24 H	208	27.30	9.80
2	165.80	30.6 QP	43.5	-12.9	1.00 H	208	17.30	13.30
3	233.70	32.0 QP	46.0	-14.0	1.00 H	208	20.00	12.00
4	299.66	31.0 QP	46.0	-15.0	1.50 H	169	16.50	14.50
5	701.24	38.7 QP	46.0	-7.3	1.24 H	15	15.00	23.70
6	897.18	32.6 QP	46.0	-13.4	1.50 H	208	5.80	26.80
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	99.84	32.5 QP	43.5	-11.0	1.24 V	95	22.70	9.80
2	165.80	29.9 QP	43.5	-13.6	1.00 V	159	16.60	13.30
3	336.52	26.9 QP	46.0	-19.1	1.50 V	64	11.40	15.50
4	493.66	29.1 QP	46.0	-16.9	1.00 V	169	9.40	19.70
5	701.24	34.4 QP	46.0	-11.6	1.24 V	105	10.70	23.70
6	840.92	34.9 QP	46.0	-11.1	1.00 V	123	8.90	26.00

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



A D T

TEST MODE D

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris 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	99.84	36.1 QP	43.5	-7.4	2.00 H	195	26.30	9.80
2	144.46	36.2 QP	43.5	-7.3	1.25 H	97	22.90	13.30
3	299.66	31.4 QP	46.0	-14.6	1.00 H	24	16.90	14.50
4	497.54	32.8 QP	46.0	-13.2	2.00 H	328	13.00	19.80
5	666.32	37.9 QP	46.0	-8.1	1.00 H	61	14.60	23.30
6	701.24	39.4 QP	46.0	-6.6	1.00 H	16	15.70	23.70
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	62.98	28.8 QP	40.0	-11.2	1.99 V	84	16.70	12.10
2	99.84	33.2 QP	43.5	-10.3	1.24 V	78	23.40	9.80
3	148.34	31.7 QP	43.5	-11.8	1.00 V	99	18.30	13.40
4	336.52	26.8 QP	46.0	-19.2	1.24 V	93	11.30	15.50
5	499.48	31.4 QP	46.0	-14.6	1.49 V	177	11.60	19.80
6	697.36	35.5 QP	46.0	-10.5	1.99 V	99	11.80	23.70

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



A D T

TEST MODE E

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris 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	68.80	31.8 QP	40.0	-8.2	1.24 H	196	20.30	11.50
2	144.46	32.6 QP	43.5	-10.9	1.00 H	249	19.30	13.30
3	185.20	36.5 QP	43.5	-7.0	1.00 H	147	25.10	11.40
4	237.58	34.3 QP	46.0	-11.7	1.50 H	111	22.10	12.20
5	299.66	34.6 QP	46.0	-11.4	1.00 H	45	20.10	14.50
6	701.24	39.7 QP	46.0	-6.3	1.99 H	346	16.00	23.70
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	33.88	36.7 QP	40.0	-3.3	1.24 V	132	23.70	13.00
2	99.84	37.2 QP	43.5	-6.3	1.00 V	246	27.40	9.80
3	144.46	37.4 QP	43.5	-6.1	1.50 V	46	24.10	13.30
4	229.82	36.3 QP	46.0	-9.7	1.00 V	134	24.40	11.90
5	499.48	30.8 QP	46.0	-15.2	1.00 V	21	11.00	19.80
6	697.36	32.4 QP	46.0	-13.6	1.24 V	139	8.70	23.70

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

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	Nov. 09, 2012	Nov. 08, 2013
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 06, 2012	Jul. 05, 2013
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

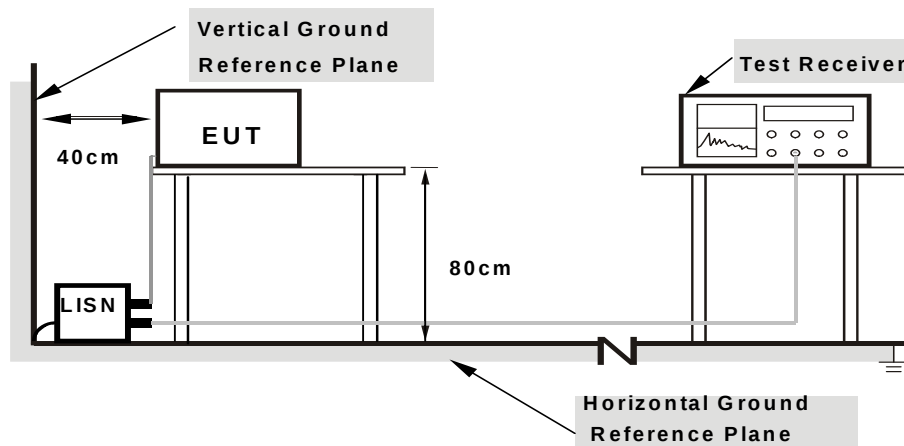
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 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 cm 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 :

TEST MODE A

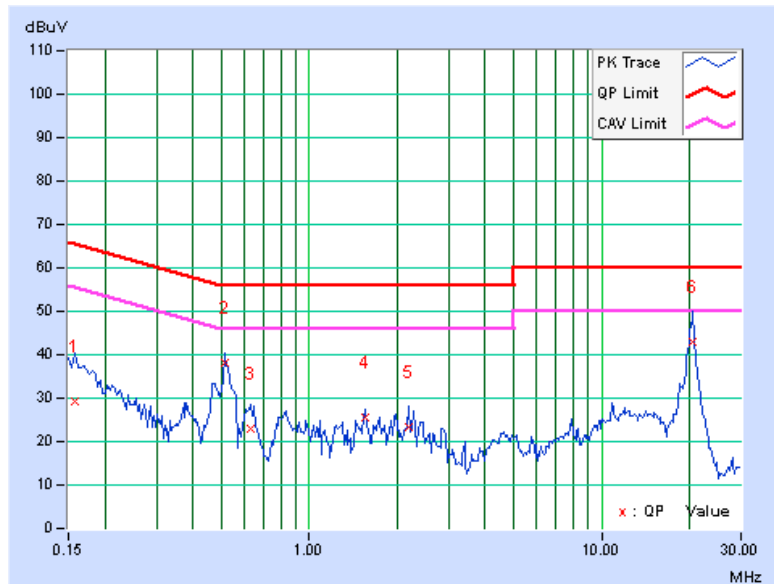
802.11b

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.15	29.26	15.57	29.41	15.72	65.58	55.58	-36.17	-39.86
2	0.51710	0.17	38.11	36.74	38.28	36.91	56.00	46.00	-17.72	-9.09
3	0.62656	0.18	22.74	17.95	22.92	18.13	56.00	46.00	-33.08	-27.87
4	1.55078	0.23	25.36	22.46	25.59	22.69	56.00	46.00	-30.41	-23.31
5	2.19922	0.27	22.92	17.93	23.19	18.20	56.00	46.00	-32.81	-27.80
6	20.50000	0.62	42.48	37.42	43.10	38.04	60.00	50.00	-16.90	-11.96

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.

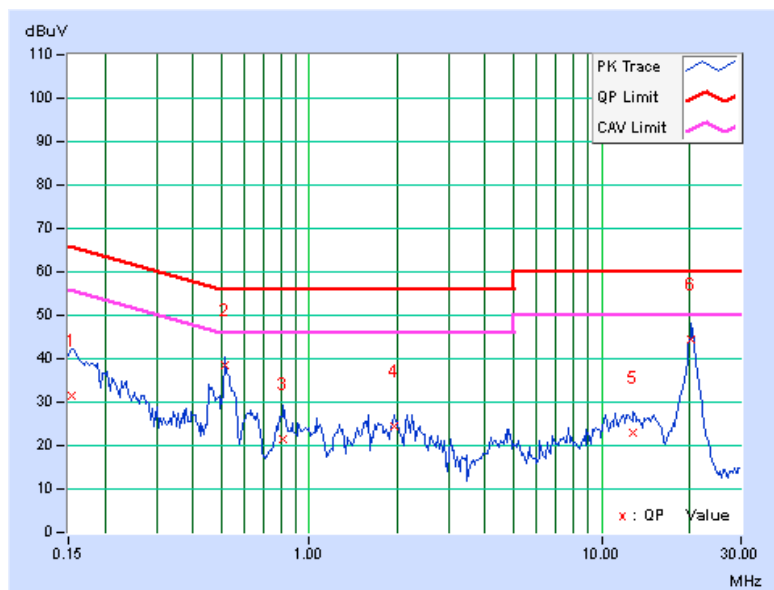


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.13	31.48	17.86	31.61	17.99	65.79	55.79	-34.18	-37.80
2	0.51710	0.17	38.21	36.86	38.38	37.03	56.00	46.00	-17.62	-8.97
3	0.81797	0.18	21.31	17.95	21.49	18.13	56.00	46.00	-34.51	-27.87
4	1.95703	0.26	24.34	16.80	24.60	17.06	56.00	46.00	-31.40	-28.94
5	12.87500	0.55	22.47	16.59	23.02	17.14	60.00	50.00	-36.98	-32.86
6	20.30078	0.71	43.84	38.10	44.55	38.81	60.00	50.00	-15.45	-11.19

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.



TEST MODE B

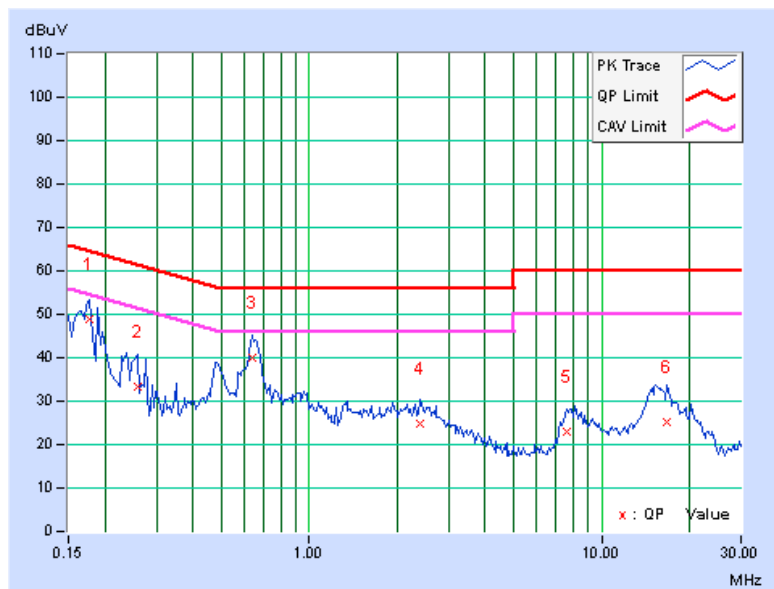
802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	0.17	48.81	31.76	48.98	31.93	64.61	54.61	-15.63	-22.68
2	0.25938	0.18	33.02	18.71	33.20	18.89	61.45	51.45	-28.25	-32.56
3	0.64219	0.23	39.63	25.22	39.86	25.45	56.00	46.00	-16.14	-20.55
4	2.40625	0.30	24.33	18.28	24.63	18.58	56.00	46.00	-31.37	-27.42
5	7.59375	0.41	22.55	15.50	22.96	15.91	60.00	50.00	-37.04	-34.09
6	16.75781	0.57	24.77	19.39	25.34	19.96	60.00	50.00	-34.66	-30.04

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

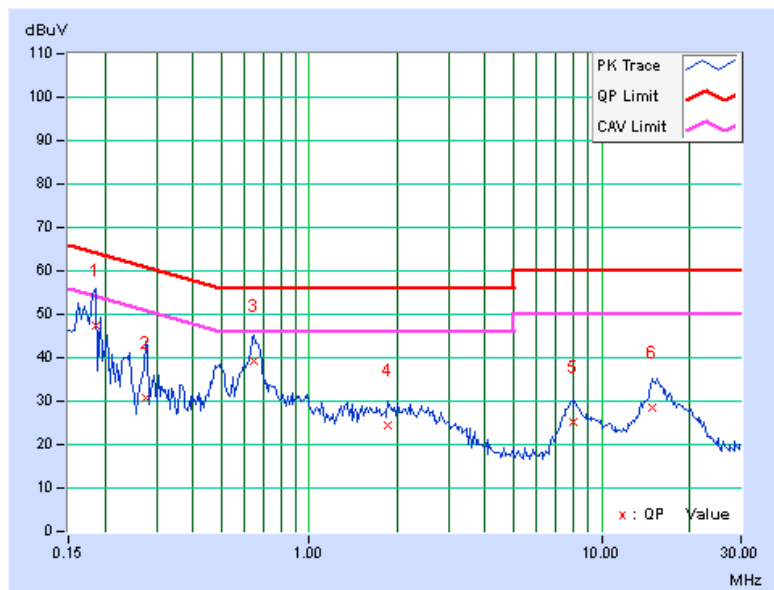


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.18	47.35	28.38	47.53	28.56	64.25	54.25	-16.72	-25.69
2	0.27500	0.21	30.35	18.12	30.56	18.33	60.97	50.97	-30.41	-32.64
3	0.65000	0.24	39.00	24.35	39.24	24.59	56.00	46.00	-16.76	-21.41
4	1.86328	0.27	24.21	17.30	24.48	17.57	56.00	46.00	-31.52	-28.43
5	7.95703	0.45	24.85	17.29	25.30	17.74	60.00	50.00	-34.70	-32.26
6	14.91406	0.60	27.98	22.72	28.58	23.32	60.00	50.00	-31.42	-26.68

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



TEST MODE C

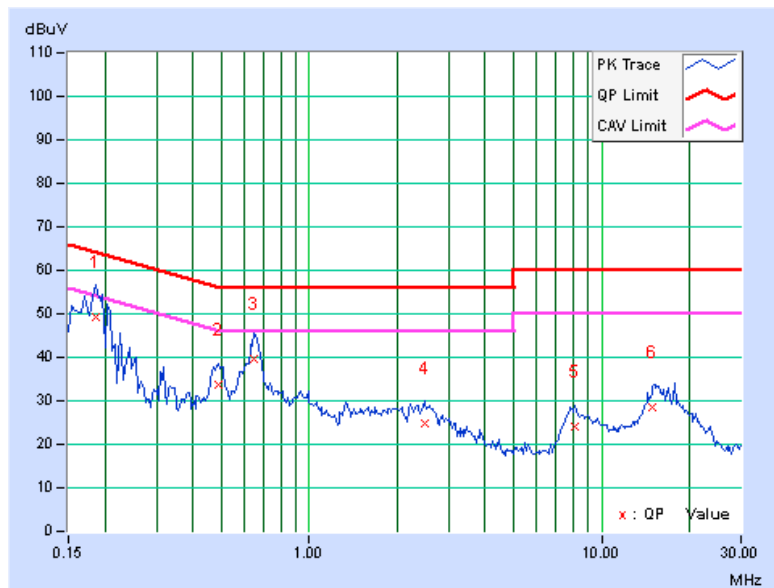
802.11b

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.17	49.04	29.96	49.21	30.13	64.25	54.25	-15.04	-24.12
2	0.48594	0.22	33.38	25.64	33.60	25.86	56.24	46.24	-22.64	-20.38
3	0.65000	0.24	39.35	23.73	39.59	23.97	56.00	46.00	-16.41	-22.03
4	2.47266	0.30	24.46	18.28	24.76	18.58	56.00	46.00	-31.24	-27.42
5	8.13672	0.41	23.67	16.51	24.08	16.92	60.00	50.00	-35.92	-33.08
6	14.93359	0.53	27.86	22.70	28.39	23.23	60.00	50.00	-31.61	-26.77

REMARKS:

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

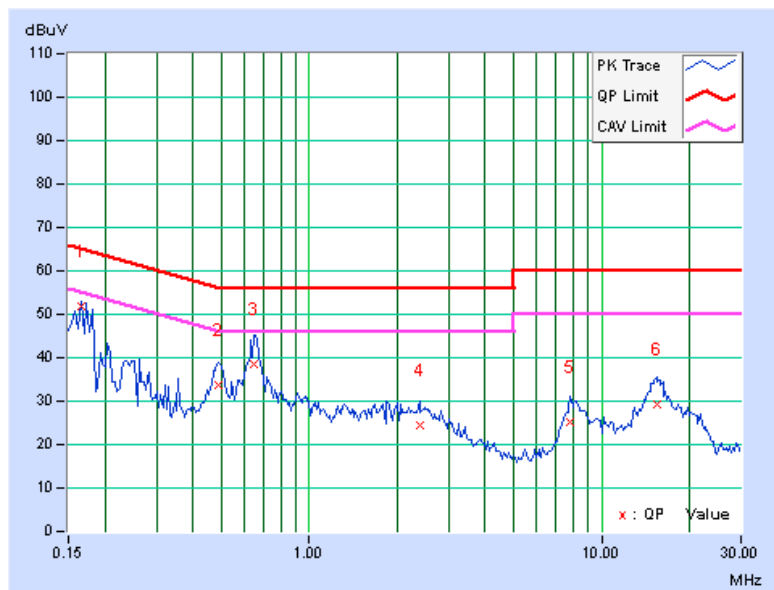


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.18	51.58	36.37	51.76	36.55	65.18	55.18	-13.41	-18.62
2	0.48984	0.25	33.51	26.18	33.76	26.43	56.17	46.17	-22.41	-19.74
3	0.65000	0.24	38.41	24.46	38.65	24.70	56.00	46.00	-17.35	-21.30
4	2.37891	0.30	24.25	18.54	24.55	18.84	56.00	46.00	-31.45	-27.16
5	7.80078	0.45	24.64	18.06	25.09	18.51	60.00	50.00	-34.91	-31.49
6	15.42188	0.62	28.80	23.82	29.42	24.44	60.00	50.00	-30.58	-25.56

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



TEST MODE D

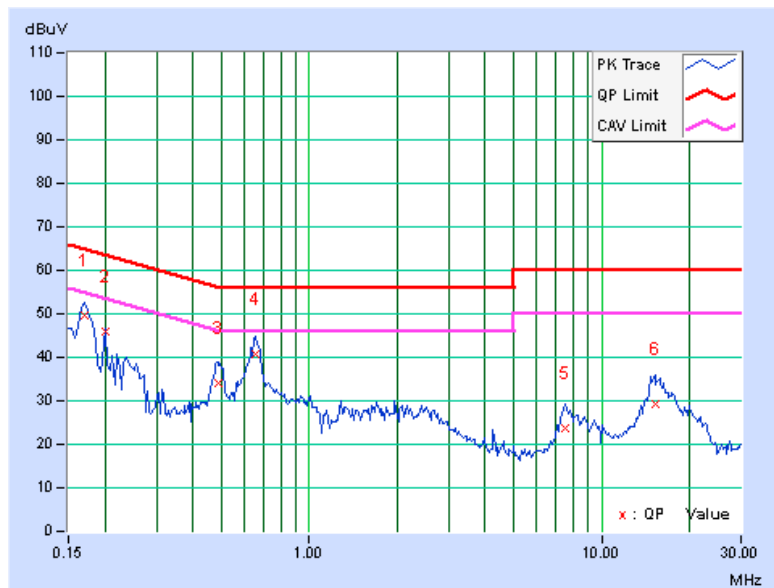
802.11g

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.17	49.43	34.61	49.60	34.78	64.98	54.98	-15.38	-20.20
2	0.20078	0.17	45.82	26.19	45.99	26.36	63.58	53.58	-17.59	-27.22
3	0.48594	0.22	34.00	26.21	34.22	26.43	56.24	46.24	-22.02	-19.81
4	0.65781	0.24	40.43	24.63	40.67	24.87	56.00	46.00	-15.33	-21.13
5	7.53906	0.41	23.16	16.43	23.57	16.84	60.00	50.00	-36.43	-33.16
6	15.26172	0.54	28.61	23.57	29.15	24.11	60.00	50.00	-30.85	-25.89

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

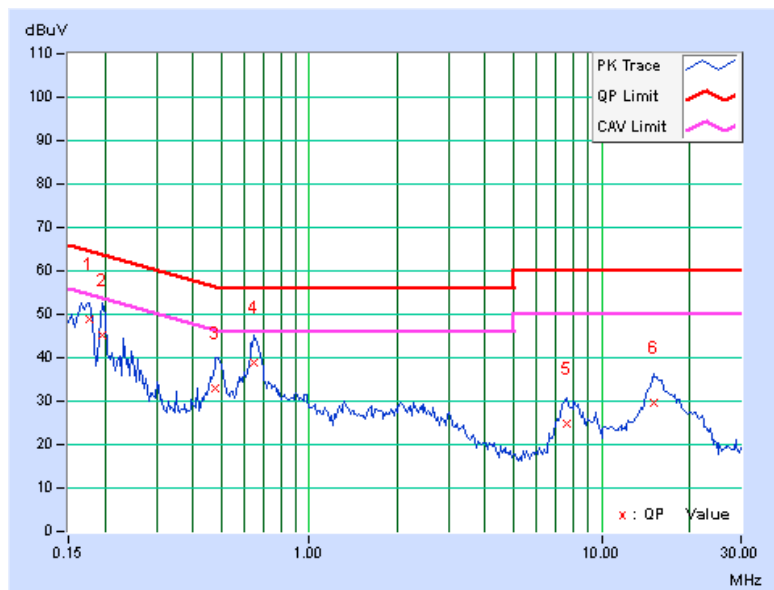


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	0.18	48.73	32.30	48.91	32.48	64.61	54.61	-15.70	-22.13
2	0.19687	0.18	44.99	28.06	45.17	28.24	63.74	53.74	-18.57	-25.50
3	0.47813	0.25	32.78	24.99	33.03	25.24	56.37	46.37	-23.34	-21.13
4	0.64609	0.24	38.49	24.81	38.73	25.05	56.00	46.00	-17.27	-20.95
5	7.58984	0.44	24.31	16.96	24.75	17.40	60.00	50.00	-35.25	-32.60
6	15.04297	0.61	29.06	23.82	29.67	24.43	60.00	50.00	-30.33	-25.57

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



TEST MODE E

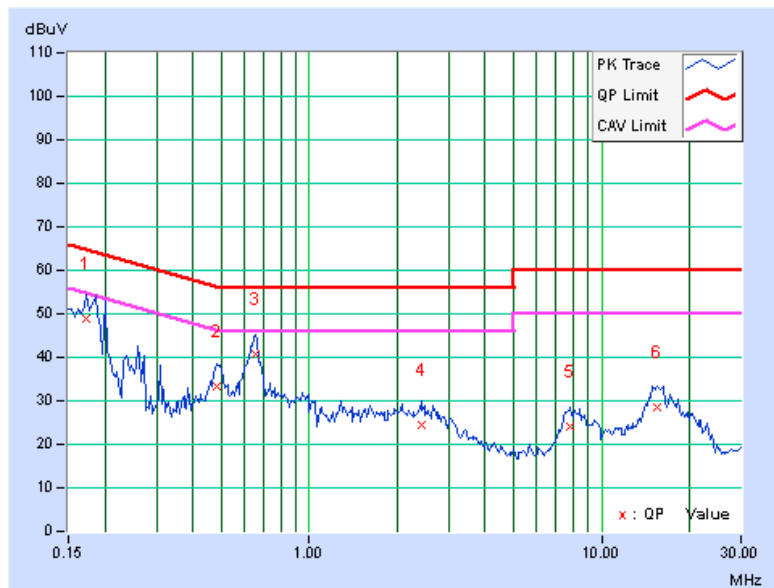
802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	0.17	48.71	33.27	48.88	33.44	64.79	54.79	-15.91	-21.35
2	0.48203	0.22	33.00	24.38	33.22	24.60	56.30	46.30	-23.09	-21.71
3	0.65781	0.24	40.46	25.09	40.70	25.33	56.00	46.00	-15.30	-20.67
4	2.41016	0.30	24.17	18.24	24.47	18.54	56.00	46.00	-31.53	-27.46
5	7.80469	0.41	23.76	16.48	24.17	16.89	60.00	50.00	-35.83	-33.11
6	15.51563	0.55	27.85	22.83	28.40	23.38	60.00	50.00	-31.60	-26.62

REMARKS:

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

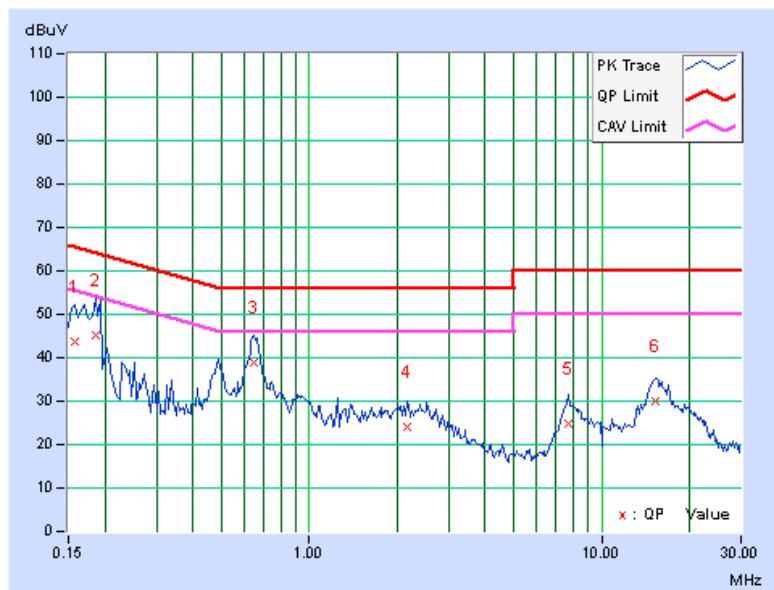


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.18	43.47	29.00	43.65	29.18	65.58	55.58	-21.92	-26.39
2	0.18516	0.18	45.08	27.70	45.26	27.88	64.25	54.25	-18.99	-26.37
3	0.65000	0.24	38.49	24.17	38.73	24.41	56.00	46.00	-17.27	-21.59
4	2.15625	0.29	23.91	17.45	24.20	17.74	56.00	46.00	-31.80	-28.26
5	7.73047	0.45	24.44	17.42	24.89	17.87	60.00	50.00	-35.11	-32.13
6	15.25391	0.61	29.30	24.40	29.91	25.01	60.00	50.00	-30.09	-24.99

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

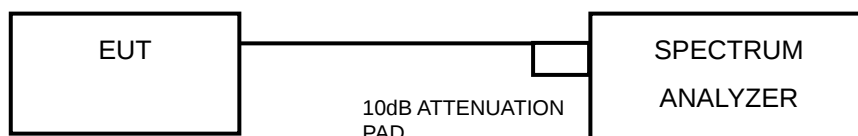


4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.3.4 TEST PROCEDURE

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 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 lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

TEST MODE A

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	10.09	10.12	10.14	0.5	PASS
6	2437	10.13	10.14	10.13	0.5	PASS
11	2462	10.14	10.10	10.14	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.45	16.46	16.42	0.5	PASS
6	2437	16.40	16.44	16.48	0.5	PASS
11	2462	16.44	16.49	16.45	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	17.64	17.64	17.66	0.5	PASS
6	2437	17.65	17.61	17.66	0.5	PASS
11	2462	17.68	17.64	17.64	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	36.48	36.48	36.50	0.5	PASS
6	2437	36.48	36.50	36.53	0.5	PASS
9	2452	36.49	36.47	36.53	0.5	PASS

TEST MODE B

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	10.12	10.07	10.08	0.5	PASS
6	2437	10.14	10.12	10.12	0.5	PASS
11	2462	10.13	10.12	10.15	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.42	16.47	16.41	0.5	PASS
6	2437	16.41	16.45	16.44	0.5	PASS
11	2462	16.43	16.45	16.45	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	17.64	17.66	17.66	0.5	PASS
6	2437	17.63	17.67	17.62	0.5	PASS
11	2462	17.65	17.66	17.65	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	36.49	36.47	36.49	0.5	PASS
6	2437	36.49	36.48	36.50	0.5	PASS
9	2452	36.51	36.48	36.48	0.5	PASS

TEST MODE C

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	10.11	10.08	10.13	0.5	PASS
6	2437	10.14	10.13	10.14	0.5	PASS
11	2462	10.14	10.15	10.11	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.45	16.45	16.46	0.5	PASS
6	2437	16.46	16.46	16.45	0.5	PASS
11	2462	16.44	16.49	16.45	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	17.68	17.64	17.68	0.5	PASS
6	2437	17.63	17.65	17.67	0.5	PASS
11	2462	17.67	17.64	17.67	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	36.30	36.48	36.49	0.5	PASS
6	2437	36.51	36.24	36.50	0.5	PASS
9	2452	36.48	36.50	36.52	0.5	PASS



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TEST MODE D

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	10.09	10.12	10.14	0.5	PASS
6	2437	10.13	10.13	10.11	0.5	PASS
11	2462	10.13	10.14	10.14	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.45	16.46	16.42	0.5	PASS
6	2437	16.44	16.43	16.44	0.5	PASS
11	2462	16.46	16.45	16.46	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	17.64	17.64	17.66	0.5	PASS
6	2437	17.64	17.65	17.62	0.5	PASS
11	2462	17.68	17.64	17.64	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	36.24	36.46	36.49	0.5	PASS
6	2437	36.51	36.49	36.50	0.5	PASS
9	2452	36.49	36.52	36.51	0.5	PASS



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TEST MODE E

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	10.13	10.13	10.10	0.5	PASS
6	2437	10.13	10.14	10.13	0.5	PASS
11	2462	10.14	10.10	10.14	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.45	16.46	16.43	0.5	PASS
6	2437	16.40	16.44	16.48	0.5	PASS
11	2462	16.47	16.44	16.46	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	17.64	17.66	17.66	0.5	PASS
6	2437	17.62	17.65	17.63	0.5	PASS
11	2462	17.64	17.66	17.68	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	36.48	36.47	36.48	0.5	PASS
6	2437	36.48	36.49	36.53	0.5	PASS
9	2452	36.48	36.48	36.49	0.5	PASS

4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output v01r02 Method of conducted output power measurement on IEEE 802.11 devices,

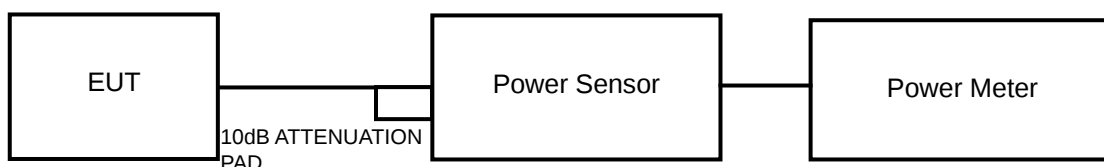
Array Gain = 0 dB (i.e., no array gain) for $NANT \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(NANT/NSS)$ dB or 3 dB, whichever is less for 20-MHz channel widths with $NANT \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(NANT/NSS)$ dB.

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.4.4 TEST PROCEDURES

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

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.



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4.4.7 TEST RESULTS

FOR PEAK POWER

TEST MODE A

802.11b

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	21.10	21.13	20.34	366.686	25.64	30	PASS
6	2437	20.57	20.69	20.41	341.146	25.33	30	PASS
11	2462	20.48	20.22	20.21	321.836	25.08	30	PASS

802.11g

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	20.13	19.28	19.11	269.232	24.30	30	PASS
6	2437	21.34	21.63	21.49	422.619	26.26	30	PASS
11	2462	18.33	18.14	18.37	201.947	23.05	30	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	19.03	18.04	18.15	208.976	23.20	30	PASS
6	2437	22.49	23.80	23.21	626.713	27.97	30	PASS
11	2462	17.26	17.34	17.33	161.486	22.08	30	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
3	2422	17.27	17.00	16.41	147.204	21.68	30	PASS
6	2437	20.33	20.87	20.52	342.795	25.35	30	PASS
9	2452	17.55	17.50	17.31	166.946	22.23	30	PASS

TEST MODE B

802.11b

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	22.36	21.63	21.69	465.304	26.68	29.5	PASS
6	2437	21.42	23.54	23.26	576.456	27.61	29.5	PASS
11	2462	20.13	20.26	20.44	319.871	25.05	29.5	PASS

NOTE:

1. Antenna 2 gain = 12.5-6 (internal attenuator) = 6.5dBi
2. Directional gain = 6.5-6dBi > 6dBi, so the conducted power limit shall be reduced to 30-(6.5-6) = 29.5dBm.

802.11g

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	21.59	20.53	20.69	374.412	25.73	29.5	PASS
6	2437	23.63	23.57	23.64	689.391	28.38	29.5	PASS
11	2462	20.86	20.13	20.74	343.515	25.36	29.5	PASS

NOTE:

1. Antenna 2 gain = 12.5-6 (internal attenuator) = 6.5dBi
2. Directional gain = 6.5-6dBi > 6dBi, so the conducted power limit shall be reduced to 30-(6.5-6) = 29.5dBm.

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	20.62	19.57	19.44	293.820	24.68	29.5	PASS
6	2437	23.56	23.69	23.74	697.462	28.44	29.5	PASS
11	2462	19.62	18.23	18.74	232.966	23.67	29.5	PASS

NOTE:

1. Antenna 2 gain = 12.5-6 (internal attenuator) = 6.5dBi
2. Directional gain = 6.5-6dBi > 6dBi, so the conducted power limit shall be reduced to 30-(6.5-6) = 29.5dBm.



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802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
3	2422	18.19	17.63	17.69	182.609	22.62	29.5	PASS
6	2437	19.24	19.53	17.66	232.034	23.66	29.5	PASS
9	2452	17.33	17.69	17.84	173.638	22.40	29.5	PASS

NOTE:

1. Antenna 2 gain = 12.5-6 (internal attenuator) = 6.5dBi
2. Directional gain = 6.5-6dBi > 6dBi, so the conducted power limit shall be reduced to 30-(6.5-6) = 29.5dBm.

TEST MODE C

802.11b

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	21.30	20.23	20.37	349.228	25.43	26.0	PASS
6	2437	20.56	20.34	20.63	337.517	25.28	26.0	PASS
11	2462	20.63	20.31	20.37	331.903	25.21	26.0	PASS

NOTE: Directional gain = 10dBi > 6dBi , so the conducted power limit shall be reduced to 30-(10-6) = 26.0dBm.

802.11g

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	19.37	19.66	19.12	260.625	24.16	26.0	PASS
6	2437	20.32	19.97	19.26	291.292	24.64	26.0	PASS
11	2462	18.33	18.14	18.37	201.947	23.05	26.0	PASS

NOTE: Directional gain = 10dBi > 6dBi , so the conducted power limit shall be reduced to 30-(10-6) = 26.0dBm.

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	19.43	18.89	18.97	244.032	23.87	26.0	PASS
6	2437	19.42	19.54	19.33	263.152	24.20	26.0	PASS
11	2462	18.37	17.49	18.44	194.635	22.89	26.0	PASS

NOTE: Directional gain = 10dBi > 6dBi , so the conducted power limit shall be reduced to 30-(10-6) = 26.0dBm.

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
3	2422	17.59	17.11	17.12	160.339	22.05	26.0	PASS
6	2437	18.06	18.03	18.24	194.187	22.88	26.0	PASS
9	2452	17.26	17.14	17.56	161.988	22.09	26.0	PASS

NOTE: Directional gain = 10dBi > 6dBi , so the conducted power limit shall be reduced to 30-(10-6) = 26.0dBm.

TEST MODE D

802.11b

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	21.10	21.13	20.34	366.686	25.64	30.0	PASS
6	2437	21.40	21.86	21.30	426.396	26.30	30.0	PASS
11	2462	20.40	20.30	20.21	321.754	25.08	30.0	PASS

802.11g

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	20.23	19.34	19.12	272.998	24.36	30.0	PASS
6	2437	23.33	23.69	23.84	691.265	28.40	30.0	PASS
11	2462	17.16	17.26	17.37	159.787	22.04	30.0	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	19.23	18.34	18.45	221.971	23.46	30.0	PASS
6	2437	23.44	23.79	23.24	670.995	28.27	30.0	PASS
11	2462	17.26	17.34	17.33	161.486	22.08	30.0	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
3	2422	18.11	18.06	17.89	190.205	22.79	30.0	PASS
6	2437	18.34	18.23	18.14	199.924	23.01	30.0	PASS
9	2452	17.06	17.19	17.22	155.899	21.93	30.0	PASS

TEST MODE E

802.11b

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	20.62	20.14	19.95	317.476	25.02	30.0	PASS
6	2437	20.57	20.69	20.41	341.146	25.33	30.0	PASS
11	2462	20.48	20.22	20.21	321.836	25.08	30.0	PASS

802.11g

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	20.17	20.34	20.22	317.331	25.02	30.0	PASS
6	2437	22.34	22.63	22.49	532.046	27.26	30.0	PASS
11	2462	17.34	16.27	17.66	154.909	21.90	30.0	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	19.53	18.39	18.23	225.294	23.53	30.0	PASS
6	2437	23.55	23.64	23.69	691.554	28.40	30.0	PASS
11	2462	18.62	17.53	18.34	197.636	22.96	30.0	PASS

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
3	2422	17.56	17.12	17.23	161.384	22.08	30.0	PASS
6	2437	17.56	17.88	17.39	173.220	22.39	30.0	PASS
9	2452	17.26	17.11	17.15	156.495	21.95	30.0	PASS

FOR AVERAGE POWER

TEST MODE A

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	19.09	18.84	18.98	236.724	23.74
6	2437	19.55	18.94	18.62	241.278	23.83
11	2462	18.34	18.28	18.68	209.322	23.21

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	14.68	14.61	14.90	89.186	19.50
6	2437	17.04	16.30	16.10	133.978	21.27
11	2462	13.04	13.37	13.34	63.441	18.02

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	13.43	13.26	13.64	66.334	18.22
6	2437	16.74	16.32	16.04	130.240	21.15
11	2462	12.14	12.58	13.06	54.711	17.38

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	7.81	7.38	7.88	17.647	12.47
6	2437	11.87	11.30	11.95	44.540	16.49
9	2452	8.66	8.42	8.26	20.994	13.22

TEST MODE B

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	20.20	19.60	19.30	281.028	24.49
6	2437	20.80	21.40	21.10	387.089	25.88
11	2462	18.90	18.70	19.20	234.932	23.71

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.20	15.60	15.20	111.108	20.46
6	2437	18.80	19.10	19.00	236.574	23.74
11	2462	15.90	15.80	15.80	114.943	20.60

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	15.10	14.70	14.80	92.071	19.64
6	2437	18.30	18.50	18.40	207.586	23.17
11	2462	14.00	13.30	13.70	69.941	18.45

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	13.60	12.80	12.40	59.342	17.73
6	2437	14.30	14.20	13.80	77.206	18.88
9	2452	11.20	10.80	10.50	36.426	15.61

TEST MODE C

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	19.00	18.50	18.20	216.297	23.35
6	2437	18.40	18.00	18.40	201.462	23.04
11	2462	18.80	18.40	18.50	215.836	23.34

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	14.00	14.20	13.90	75.969	18.81
6	2437	15.20	14.90	14.90	94.919	19.77
11	2462	13.00	12.70	12.70	57.195	17.57

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	14.10	13.50	13.30	69.471	18.42
6	2437	14.40	14.20	14.40	81.387	19.11
11	2462	13.50	12.20	13.10	59.400	17.74

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	12.10	10.70	10.40	38.932	15.90
6	2437	13.20	12.90	13.00	60.344	17.81
9	2452	9.30	8.90	8.50	23.352	13.68

TEST MODE D

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	19.20	19.00	18.60	235.053	23.71
6	2437	20.20	20.50	20.30	324.067	25.11
11	2462	18.80	18.40	18.50	215.836	23.34

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	15.30	14.60	14.30	89.639	19.52
6	2437	18.80	19.10	18.80	232.999	23.67
11	2462	12.90	11.90	12.30	51.968	17.16

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	14.10	13.50	13.30	69.471	18.42
6	2437	18.30	18.50	18.40	207.586	23.17
11	2462	12.70	11.70	12.10	49.630	16.96

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	13.20	12.40	11.40	52.075	17.17
6	2437	13.60	13.20	12.80	62.857	17.98
9	2452	10.70	10.30	9.90	32.236	15.08

TEST MODE E

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	18.77	18.01	17.82	199.111	22.99
6	2437	18.90	18.50	18.80	224.278	23.51
11	2462	18.50	17.90	18.00	195.551	22.91

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	14.00	14.20	13.90	75.969	18.81
6	2437	17.40	17.30	17.30	162.360	22.10
11	2462	12.90	11.90	12.30	51.968	17.16

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	14.10	13.50	13.30	69.471	18.42
6	2437	18.30	18.50	18.40	207.586	23.17
11	2462	13.50	12.20	13.10	59.400	17.74

802.11n (40MHz)

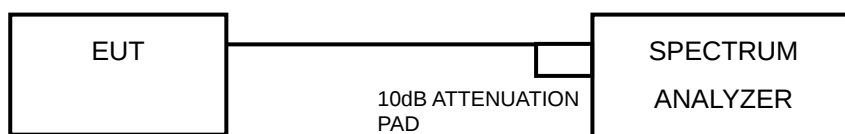
CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	CHAIN 2		
3	2422	12.10	10.70	10.40	38.932	15.90
6	2437	12.80	12.50	11.60	51.292	17.10
9	2452	10.20	9.80	9.40	28.731	14.58

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 SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- Set the RBW = 3 kHz, VBW = 10 kHz, Detector = peak.
- Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

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

TEST MODE A

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-5.32	4.77	-0.55	6.23	PASS
	6	2437	-6.10	4.77	-1.33	6.23	PASS
	11	2462	-6.42	4.77	-1.65	6.23	PASS
1	1	2412	-5.83	4.77	-1.06	6.23	PASS
	6	2437	-6.98	4.77	-2.21	6.23	PASS
	11	2462	-7.84	4.77	-3.07	6.23	PASS
2	1	2412	-6.27	4.77	-1.50	6.23	PASS
	6	2437	-6.11	4.77	-1.34	6.23	PASS
	11	2462	-7.60	4.77	-2.83	6.23	PASS

NOTE: Directional gain = $3\text{dBi} + 10\log(3) = 7.77\text{dBi}$ > 6dBi , so the power density limit shall be reduced to $8-(7.77-6) = 6.23\text{dBm}$.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-10.87	4.77	-6.10	6.23	PASS
	6	2437	-9.07	4.77	-4.30	6.23	PASS
	11	2462	-13.34	4.77	-8.57	6.23	PASS
1	1	2412	-11.72	4.77	-6.95	6.23	PASS
	6	2437	-9.62	4.77	-4.85	6.23	PASS
	11	2462	-13.47	4.77	-8.70	6.23	PASS
2	1	2412	-11.41	4.77	-6.64	6.23	PASS
	6	2437	-8.81	4.77	-4.04	6.23	PASS
	11	2462	-13.34	4.77	-8.57	6.23	PASS

NOTE: Directional gain = $3\text{dBi} + 10\log(3) = 7.77\text{dBi}$ > 6dBi , so the power density limit shall be reduced to $8-(7.77-6) = 6.23\text{dBm}$.

**A D T****802.11n (20MHz)**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.96	4.77	-7.19	6.23	PASS
	6	2437	-8.83	4.77	-4.06	6.23	PASS
	11	2462	-13.26	4.77	-8.49	6.23	PASS
1	1	2412	-13.75	4.77	-8.98	6.23	PASS
	6	2437	-9.33	4.77	-4.56	6.23	PASS
	11	2462	-15.17	4.77	-10.40	6.23	PASS
2	1	2412	-13.87	4.77	-9.10	6.23	PASS
	6	2437	-8.77	4.77	-4.00	6.23	PASS
	11	2462	-15.19	4.77	-10.42	6.23	PASS

NOTE: Directional gain = $3\text{dBi} + 10\log(3) = 7.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(7.77-6) = 6.23\text{dBm}$.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-19.29	4.77	-14.52	6.23	PASS
	6	2437	-17.82	4.77	-13.05	6.23	PASS
	9	2452	-20.52	4.77	-15.75	6.23	PASS
1	3	2422	-21.92	4.77	-17.15	6.23	PASS
	6	2437	-16.93	4.77	-12.16	6.23	PASS
	9	2452	-21.22	4.77	-16.45	6.23	PASS
2	3	2422	-22.13	4.77	-17.36	6.23	PASS
	6	2437	-17.16	4.77	-12.39	6.23	PASS
	9	2452	-20.47	4.77	-15.70	6.23	PASS

NOTE: Directional gain = $3\text{dBi} + 10\log(3) = 7.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(7.77-6) = 6.23\text{dBm}$.



A D T

TEST MODE B**802.11b**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-5.00	4.77	-0.23	2.73	PASS
	6	2437	-4.21	4.77	0.56	2.73	PASS
	11	2462	-6.62	4.77	-1.85	2.73	PASS
1	1	2412	-5.18	4.77	-0.41	2.73	PASS
	6	2437	-4.46	4.77	0.31	2.73	PASS
	11	2462	-5.51	4.77	-0.74	2.73	PASS
2	1	2412	-5.89	4.77	-1.12	2.73	PASS
	6	2437	-3.73	4.77	1.04	2.73	PASS
	11	2462	-6.55	4.77	-1.78	2.73	PASS

NOTE: Directional gain = $6.5\text{dBi} + 10\log(3) = 11.27\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(11.27-6) = 2.73\text{dBm}$.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-9.39	4.77	-4.62	2.73	PASS
	6	2437	-7.26	4.77	-2.49	2.73	PASS
	11	2462	-10.93	4.77	-6.16	2.73	PASS
1	1	2412	-10.68	4.77	-5.91	2.73	PASS
	6	2437	-7.92	4.77	-3.15	2.73	PASS
	11	2462	-10.89	4.77	-6.12	2.73	PASS
2	1	2412	-10.03	4.77	-5.26	2.73	PASS
	6	2437	-8.24	4.77	-3.47	2.73	PASS
	11	2462	-11.20	4.77	-6.43	2.73	PASS

NOTE: Directional gain = $6.5\text{dBi} + 10\log(3) = 11.27\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(11.27-6) = 2.73\text{dBm}$.

**A D T****802.11n (20MHz)**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.82	4.77	-7.05	2.73	PASS
	6	2437	-8.05	4.77	-3.28	2.73	PASS
	11	2462	-13.33	4.77	-8.56	2.73	PASS
1	1	2412	-12.32	4.77	-7.55	2.73	PASS
	6	2437	-7.84	4.77	-3.07	2.73	PASS
	11	2462	-13.50	4.77	-8.73	2.73	PASS
2	1	2412	-12.21	4.77	-7.44	2.73	PASS
	6	2437	-8.85	4.77	-4.08	2.73	PASS
	11	2462	-12.61	4.77	-7.84	2.73	PASS

NOTE: Directional gain = 6.5dBi + 10log(3) = 11.27dBi > 6dBi , so the power density limit shall be reduced to 8-(11.27-6) = 2.73dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-15.82	4.77	-11.05	2.73	PASS
	6	2437	-14.02	4.77	-9.25	2.73	PASS
	9	2452	-16.68	4.77	-11.91	2.73	PASS
1	3	2422	-15.61	4.77	-10.84	2.73	PASS
	6	2437	-14.53	4.77	-9.76	2.73	PASS
	9	2452	-18.21	4.77	-13.44	2.73	PASS
2	3	2422	-16.22	4.77	-11.45	2.73	PASS
	6	2437	-14.56	4.77	-9.79	2.73	PASS
	9	2452	-17.80	4.77	-13.03	2.73	PASS

NOTE: Directional gain = 6.5dBi + 10log(3) = 11.27dBi > 6dBi , so the power density limit shall be reduced to 8-(11.27-6) = 2.73dBm.

**A D T****TEST MODE C****802.11b**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-6.92	4.77	-2.15	-0.77	PASS
	6	2437	-7.02	4.77	-2.25	-0.77	PASS
	11	2462	-6.75	4.77	-1.98	-0.77	PASS
1	1	2412	-6.77	4.77	-2.00	-0.77	PASS
	6	2437	-7.49	4.77	-2.72	-0.77	PASS
	11	2462	-6.85	4.77	-2.08	-0.77	PASS
2	1	2412	-7.29	4.77	-2.52	-0.77	PASS
	6	2437	-6.71	4.77	-1.94	-0.77	PASS
	11	2462	-6.51	4.77	-1.74	-0.77	PASS

NOTE: Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi , so the power density limit shall be reduced to 8-(14.77-6) = -0.77dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.90	4.77	-7.13	-0.77	PASS
	6	2437	-12.03	4.77	-7.26	-0.77	PASS
	11	2462	-13.34	4.77	-8.57	-0.77	PASS
1	1	2412	-12.50	4.77	-7.73	-0.77	PASS
	6	2437	-10.82	4.77	-6.05	-0.77	PASS
	11	2462	-13.47	4.77	-8.70	-0.77	PASS
2	1	2412	-12.31	4.77	-7.54	-0.77	PASS
	6	2437	-11.48	4.77	-6.71	-0.77	PASS
	11	2462	-13.34	4.77	-8.57	-0.77	PASS

NOTE: Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi , so the power density limit shall be reduced to 8-(14.77-6) = -0.77dBm.



A D T

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-13.02	4.77	-8.25	-0.77	PASS
	6	2437	-12.34	4.77	-7.57	-0.77	PASS
	11	2462	-12.48	4.77	-7.71	-0.77	PASS
1	1	2412	-12.56	4.77	-7.79	-0.77	PASS
	6	2437	-13.23	4.77	-8.46	-0.77	PASS
	11	2462	-14.23	4.77	-9.46	-0.77	PASS
2	1	2412	-13.71	4.77	-8.94	-0.77	PASS
	6	2437	-12.68	4.77	-7.91	-0.77	PASS
	11	2462	-12.98	4.77	-8.21	-0.77	PASS

NOTE: Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi , so the power density limit shall be reduced to 8-(14.77-6) = -0.77dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-17.66	4.77	-12.89	-0.77	PASS
	6	2437	-14.63	4.77	-9.86	-0.77	PASS
	9	2452	-20.18	4.77	-15.41	-0.77	PASS
1	3	2422	-17.88	4.77	-13.11	-0.77	PASS
	6	2437	-15.63	4.77	-10.86	-0.77	PASS
	9	2452	-19.06	4.77	-14.29	-0.77	PASS
2	3	2422	-19.02	4.77	-14.25	-0.77	PASS
	6	2437	-16.50	4.77	-11.73	-0.77	PASS
	9	2452	-20.15	4.77	-15.38	-0.77	PASS

NOTE: Directional gain = 10dBi + 10log(3) = 14.77dBi > 6dBi , so the power density limit shall be reduced to 8-(14.77-6) = -0.77dBm.

**A D T****TEST MODE D****802.11b**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-5.32	4.77	-0.55	7.23	PASS
	6	2437	-4.87	4.77	-0.10	7.23	PASS
	11	2462	-6.15	4.77	-1.38	7.23	PASS
1	1	2412	-5.83	4.77	-1.06	7.23	PASS
	6	2437	-4.90	4.77	-0.13	7.23	PASS
	11	2462	-6.53	4.77	-1.76	7.23	PASS
2	1	2412	-6.27	4.77	-1.50	7.23	PASS
	6	2437	-3.99	4.77	0.78	7.23	PASS
	11	2462	-6.86	4.77	-2.09	7.23	PASS

NOTE: Directional gain = $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.77-6) = 7.23\text{dBm}$.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-10.87	4.77	-6.10	7.23	PASS
	6	2437	-7.61	4.77	-2.84	7.23	PASS
	11	2462	-13.07	4.77	-8.30	7.23	PASS
1	1	2412	-11.72	4.77	-6.95	7.23	PASS
	6	2437	-7.31	4.77	-2.54	7.23	PASS
	11	2462	-14.78	4.77	-10.01	7.23	PASS
2	1	2412	-11.41	4.77	-6.64	7.23	PASS
	6	2437	-8.34	4.77	-3.57	7.23	PASS
	11	2462	-13.12	4.77	-8.35	7.23	PASS

NOTE: Directional gain = $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.77-6) = 7.23\text{dBm}$.

**A D T****802.11n (20MHz)**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.96	4.77	-7.19	7.23	PASS
	6	2437	-8.71	4.77	-3.94	7.23	PASS
	11	2462	-13.26	4.77	-8.49	7.23	PASS
1	1	2412	-13.75	4.77	-8.98	7.23	PASS
	6	2437	-7.89	4.77	-3.12	7.23	PASS
	11	2462	-15.17	4.77	-10.40	7.23	PASS
2	1	2412	-13.87	4.77	-9.10	7.23	PASS
	6	2437	-8.56	4.77	-3.79	7.23	PASS
	11	2462	-15.19	4.77	-10.42	7.23	PASS

NOTE: Directional gain = $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.77-6) = 7.23\text{dBm}$.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-15.22	4.77	-10.45	7.23	PASS
	6	2437	-14.84	4.77	-10.07	7.23	PASS
	9	2452	-17.98	4.77	-13.21	7.23	PASS
1	3	2422	-16.36	4.77	-11.59	7.23	PASS
	6	2437	-15.66	4.77	-10.89	7.23	PASS
	9	2452	-18.94	4.77	-14.17	7.23	PASS
2	3	2422	-17.59	4.77	-12.82	7.23	PASS
	6	2437	-16.62	4.77	-11.85	7.23	PASS
	9	2452	-16.57	4.77	-11.80	7.23	PASS

NOTE: Directional gain = $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.77-6) = 7.23\text{dBm}$.



A D T

TEST MODE E**802.11b**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-6.18	4.77	-1.41	4.23	PASS
	6	2437	-6.10	4.77	-1.33	4.23	PASS
	11	2462	-6.42	4.77	-1.65	4.23	PASS
1	1	2412	-6.85	4.77	-2.08	4.23	PASS
	6	2437	-6.98	4.77	-2.21	4.23	PASS
	11	2462	-7.84	4.77	-3.07	4.23	PASS
2	1	2412	-7.84	4.77	-3.07	4.23	PASS
	6	2437	-6.11	4.77	-1.34	4.23	PASS
	11	2462	-7.60	4.77	-2.83	4.23	PASS

NOTE: Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi , so the power density limit shall be reduced to 8-(9.77-6) = 4.23dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-12.56	4.77	-7.79	4.23	PASS
	6	2437	-9.07	4.77	-4.30	4.23	PASS
	11	2462	-14.01	4.77	-9.24	4.23	PASS
1	1	2412	-12.37	4.77	-7.60	4.23	PASS
	6	2437	-9.62	4.77	-4.85	4.23	PASS
	11	2462	-14.69	4.77	-9.92	4.23	PASS
2	1	2412	-12.52	4.77	-7.75	4.23	PASS
	6	2437	-8.81	4.77	-4.04	4.23	PASS
	11	2462	-14.86	4.77	-10.09	4.23	PASS

NOTE: Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi , so the power density limit shall be reduced to 8-(9.77-6) = 4.23dBm.

**A D T****802.11n (20MHz)**

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.93	4.77	-7.16	4.23	PASS
	6	2437	-8.13	4.77	-3.36	4.23	PASS
	11	2462	-13.46	4.77	-8.69	4.23	PASS
1	1	2412	-13.19	4.77	-8.42	4.23	PASS
	6	2437	-8.04	4.77	-3.27	4.23	PASS
	11	2462	-13.41	4.77	-8.64	4.23	PASS
2	1	2412	-13.04	4.77	-8.27	4.23	PASS
	6	2437	-9.00	4.77	-4.23	4.23	PASS
	11	2462	-13.88	4.77	-9.11	4.23	PASS

NOTE: Directional gain = $5\text{dBi} + 10\log(3) = 9.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(9.77-6) = 4.23\text{dBm}$.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-16.86	4.77	-12.09	4.23	PASS
	6	2437	-17.09	4.77	-12.32	4.23	PASS
	9	2452	-19.04	4.77	-14.27	4.23	PASS
1	3	2422	-18.58	4.77	-13.81	4.23	PASS
	6	2437	-16.98	4.77	-12.21	4.23	PASS
	9	2452	-18.42	4.77	-13.65	4.23	PASS
2	3	2422	-17.84	4.77	-13.07	4.23	PASS
	6	2437	-17.58	4.77	-12.81	4.23	PASS
	9	2452	-19.78	4.77	-15.01	4.23	PASS

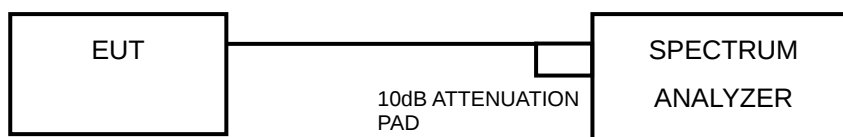
NOTE: Directional gain = $5\text{dBi} + 10\log(3) = 9.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(9.77-6) = 4.23\text{dBm}$.

4.6 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

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

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

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

MEASUREMENT PROCEDURE OOB

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

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.7 TEST RESULTS

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

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.



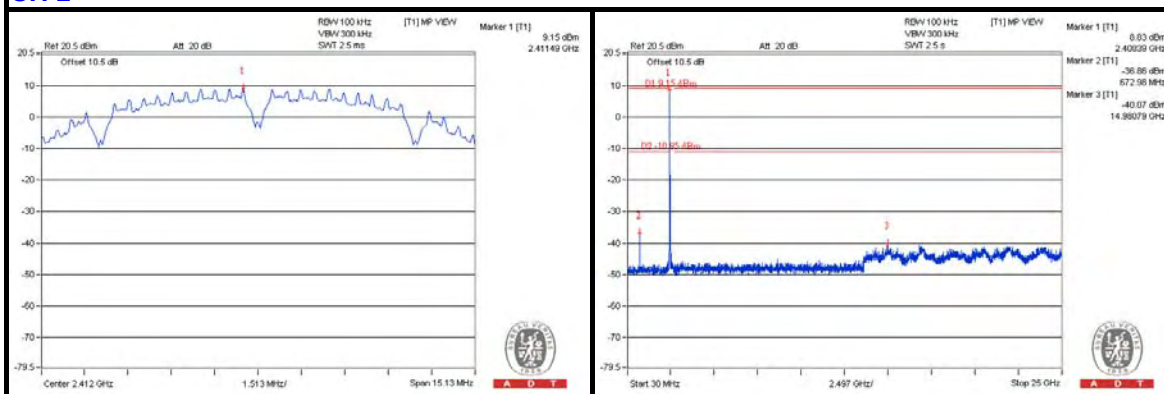
A D T

TEST MODE A

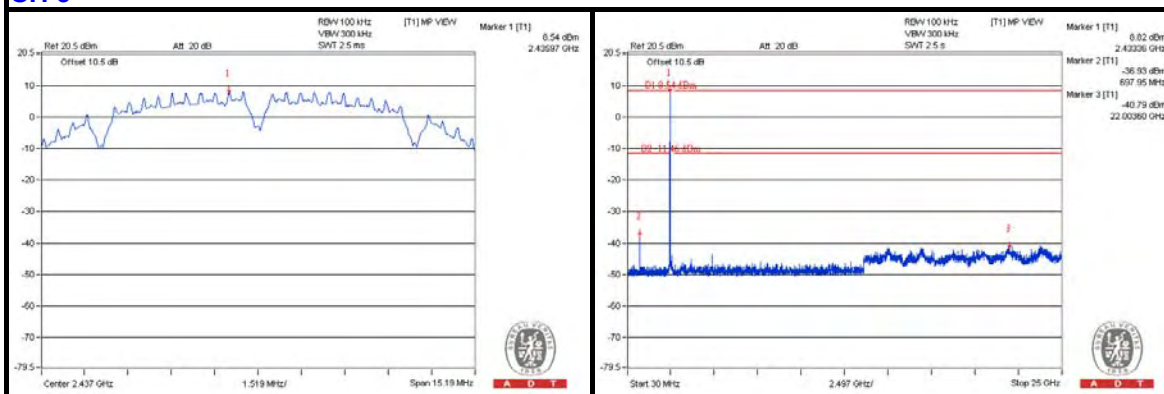
802.11b

CHAIN 0

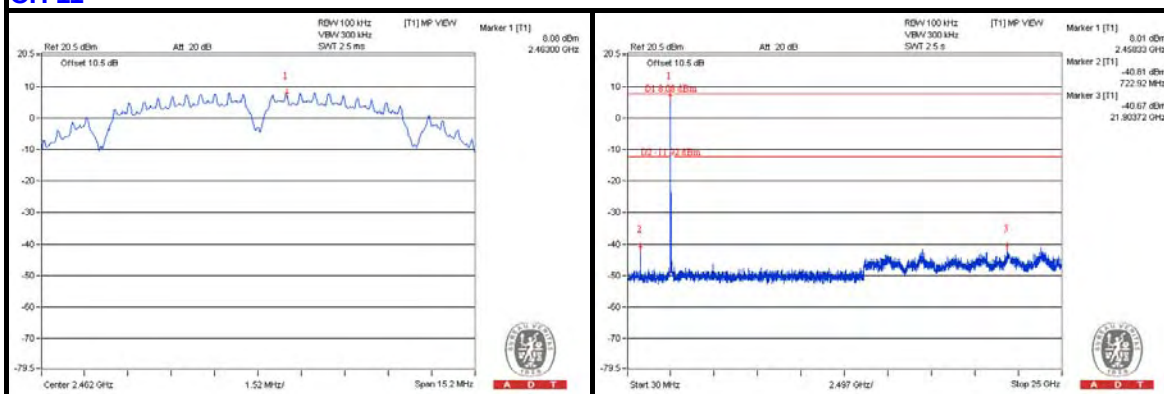
CH 1



CH 6



CH 11

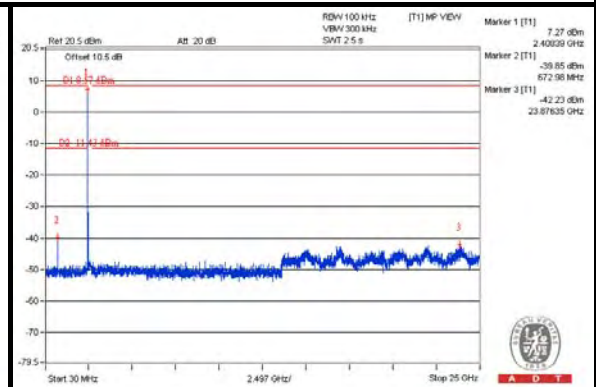
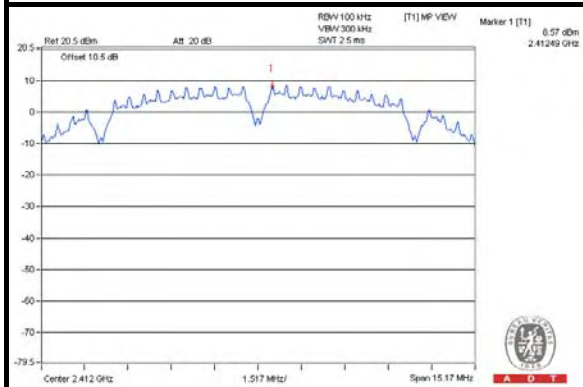




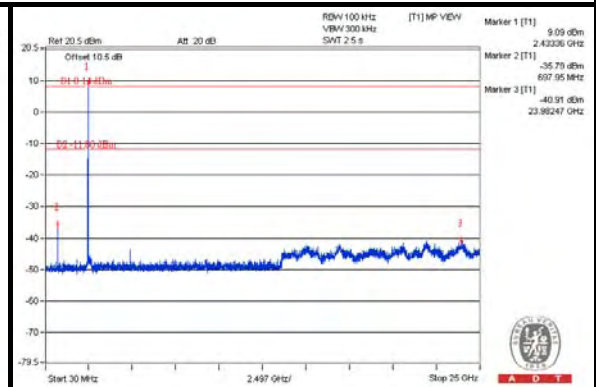
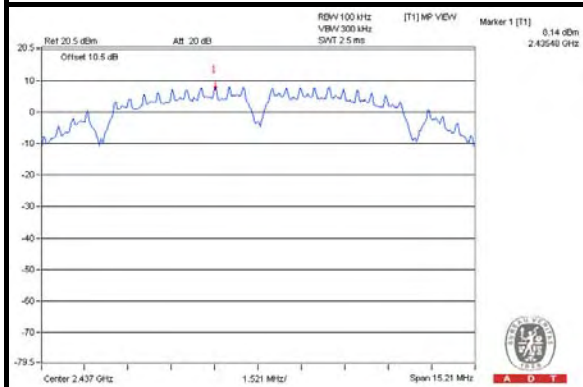
A D T

CHAIN 1

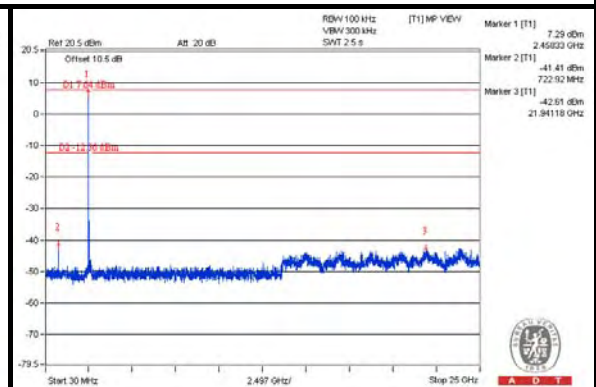
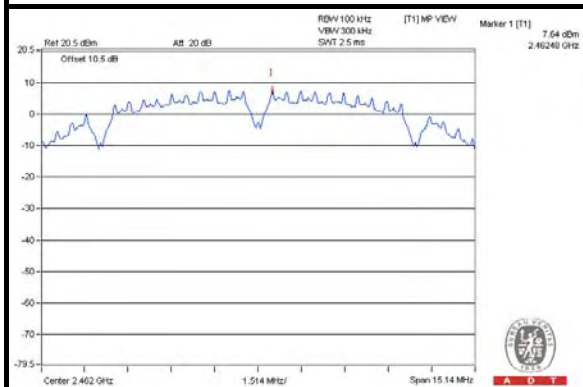
CH 1



CH 6



CH 11

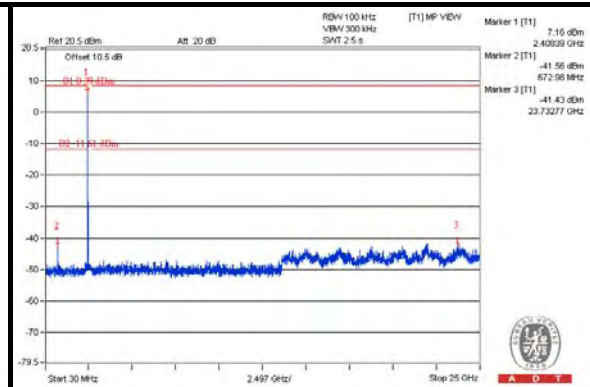
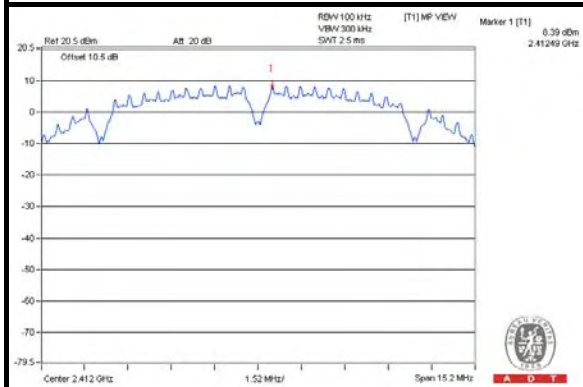




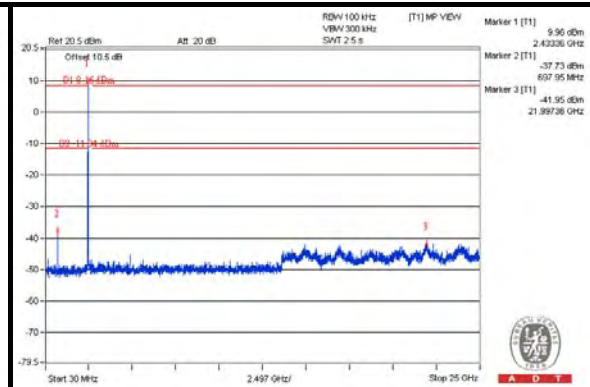
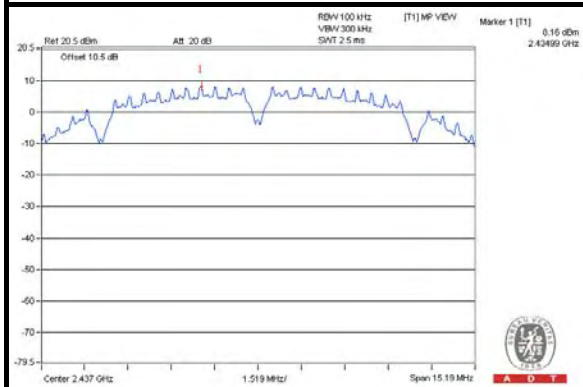
A D T

CHAIN 2

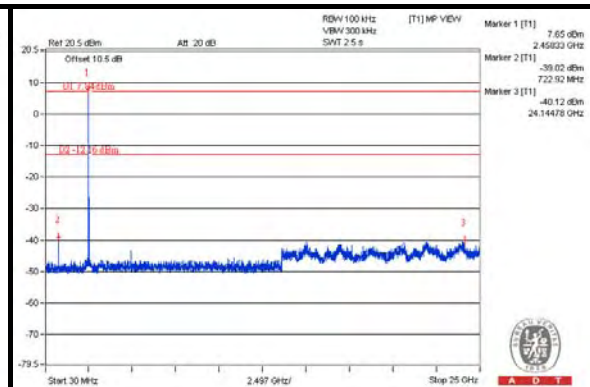
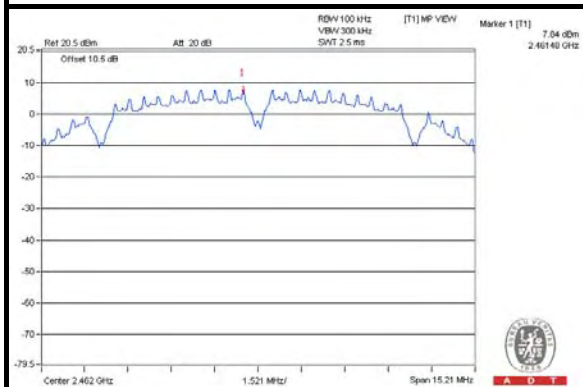
CH 1



CH 6



CH 11

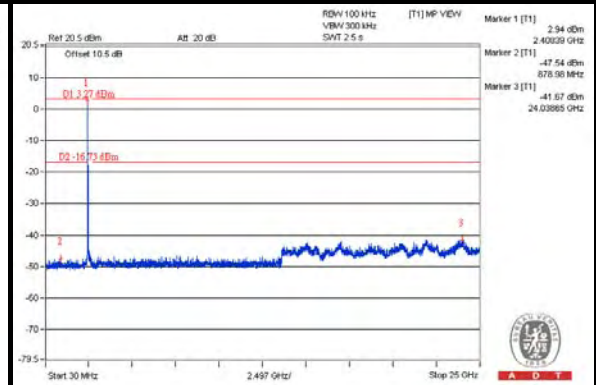
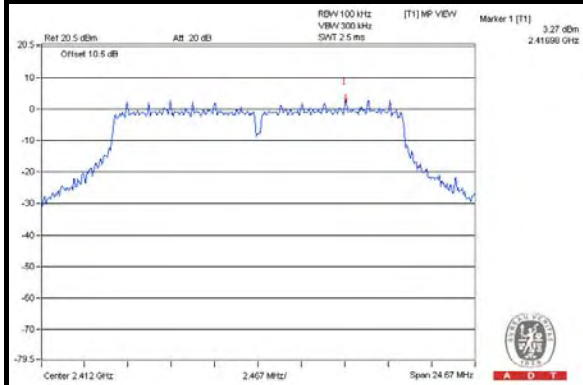




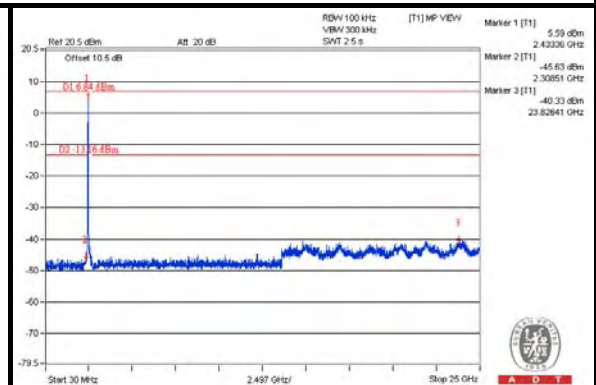
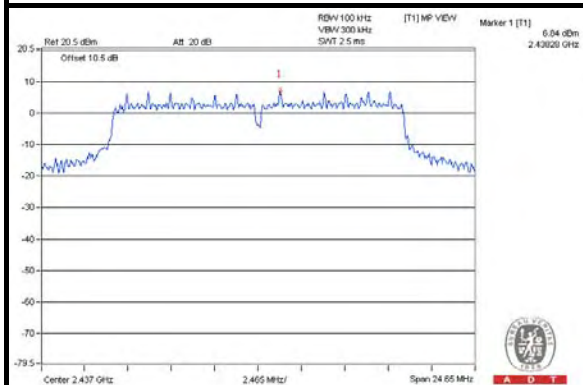
A D T

802.11g
CHAIN 0

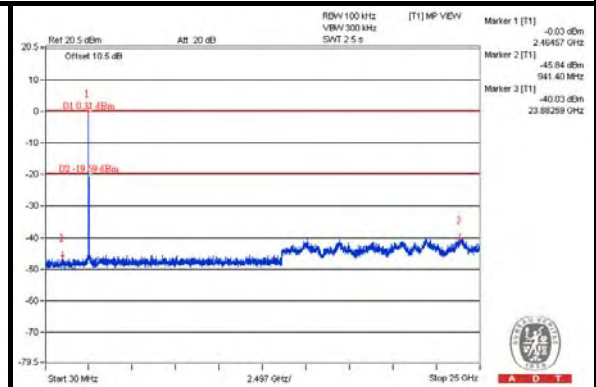
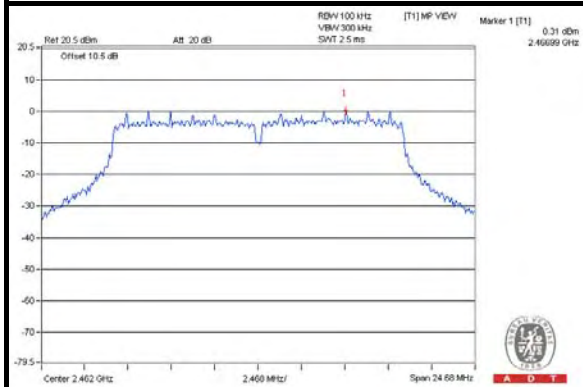
CH 1



CH 6



CH 11

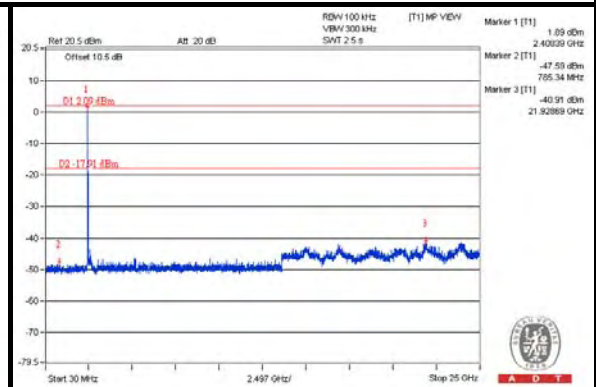
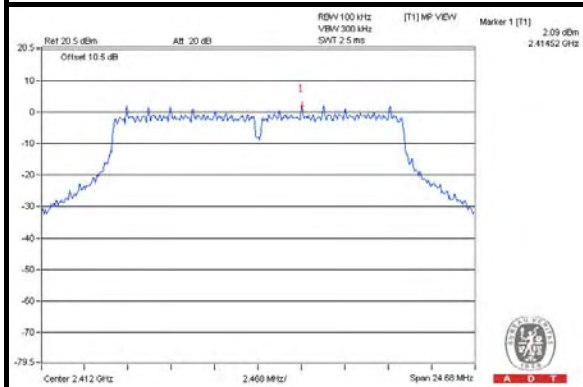




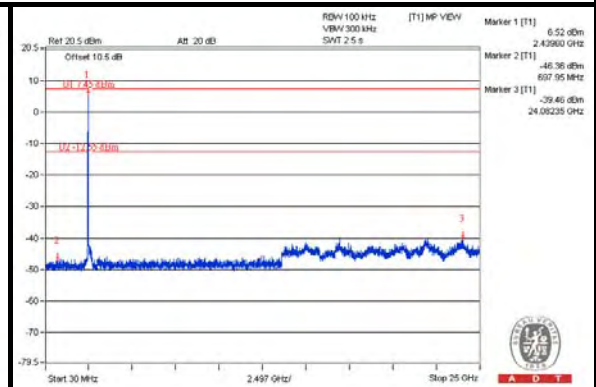
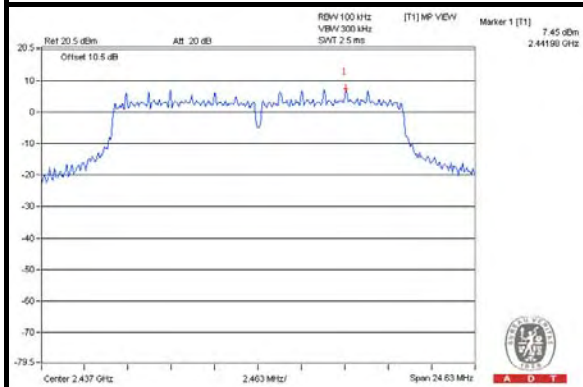
A D T

CHAIN 1

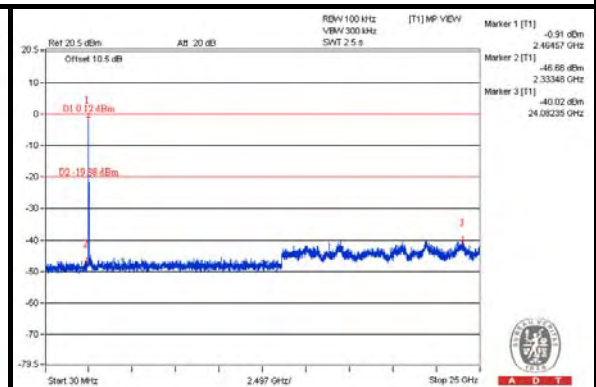
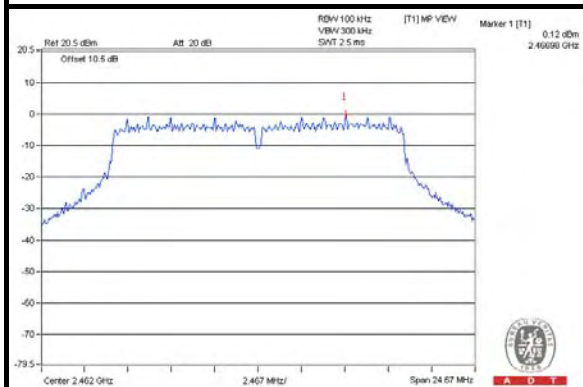
CH 1



CH 6



CH 11

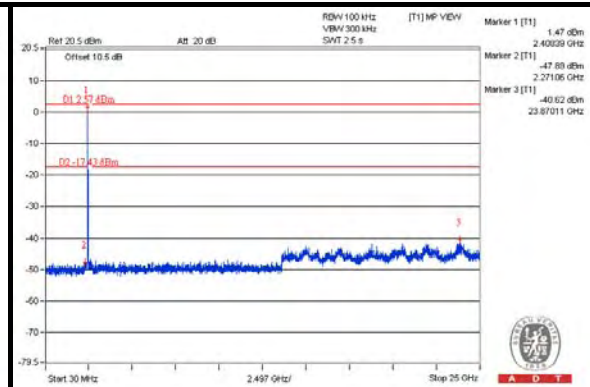
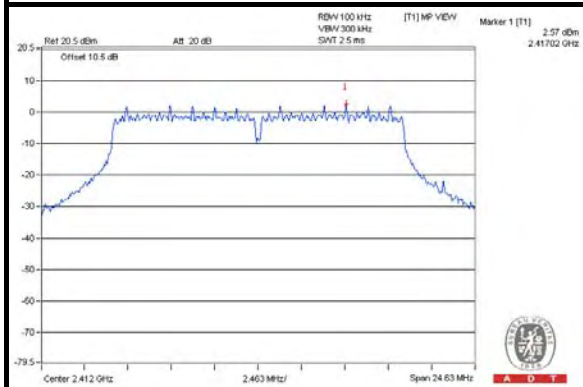




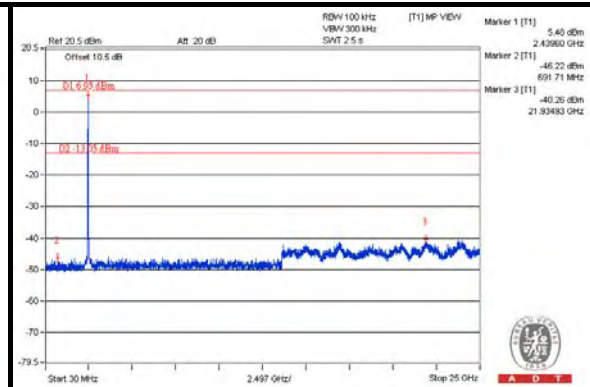
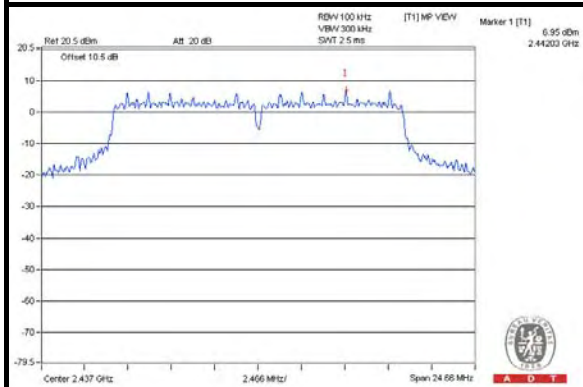
A D T

CHAIN 2

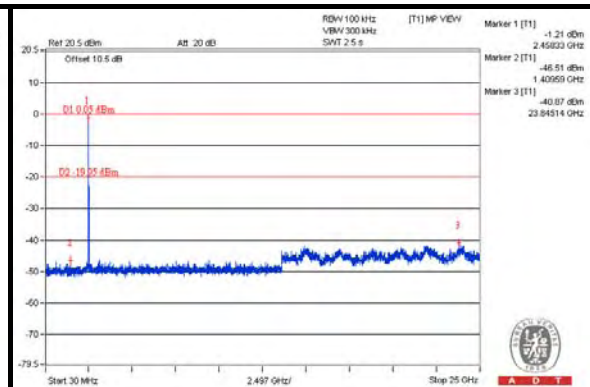
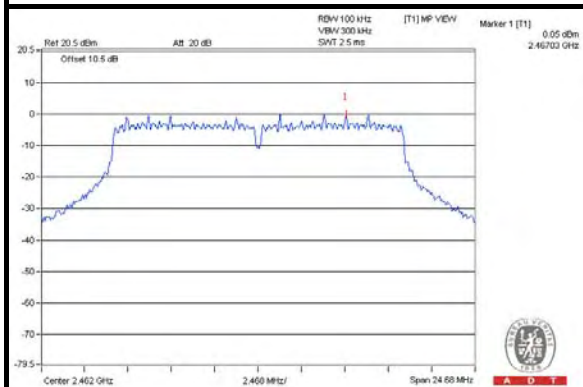
CH 1



CH 6



CH 11



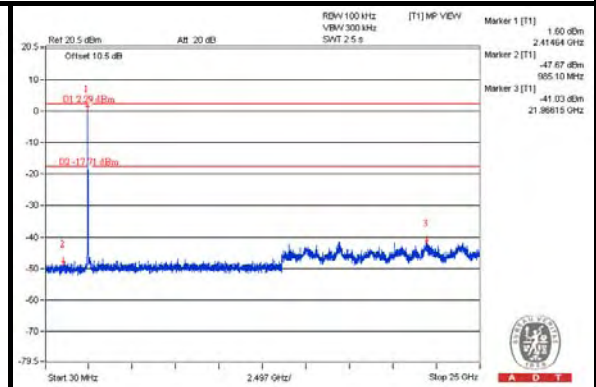
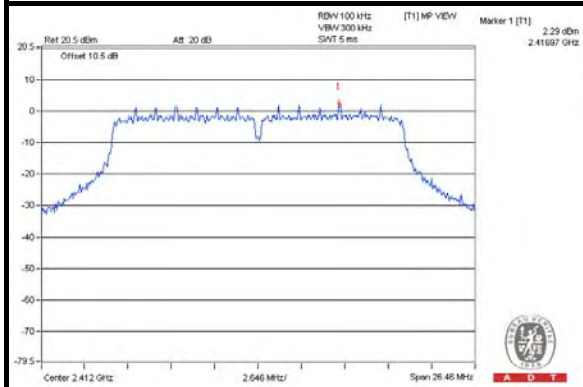


A D T

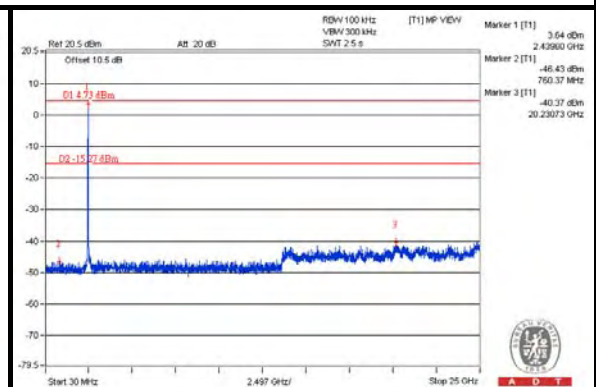
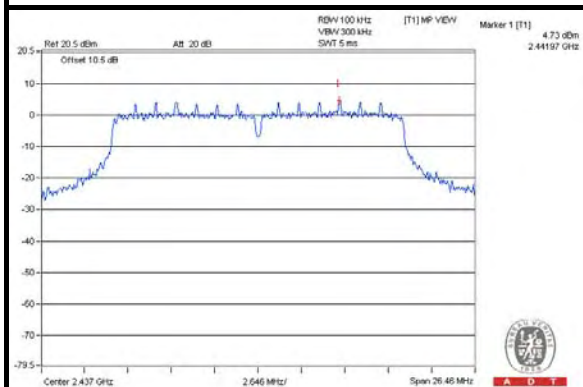
802.11n (20MHz)

CHAIN 0

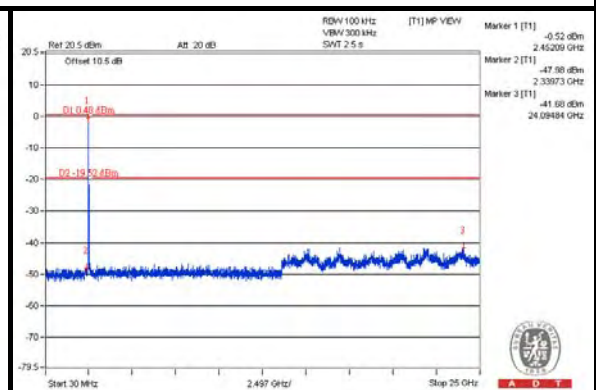
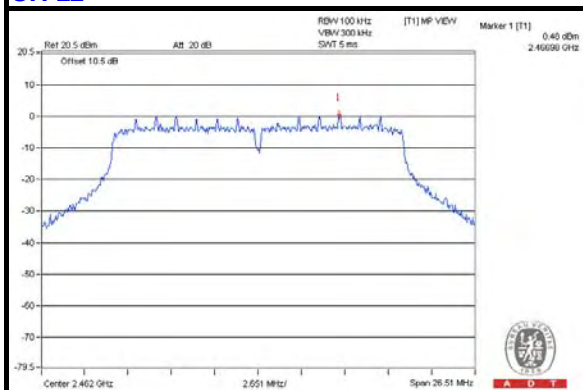
CH 1



CH 6



CH 11

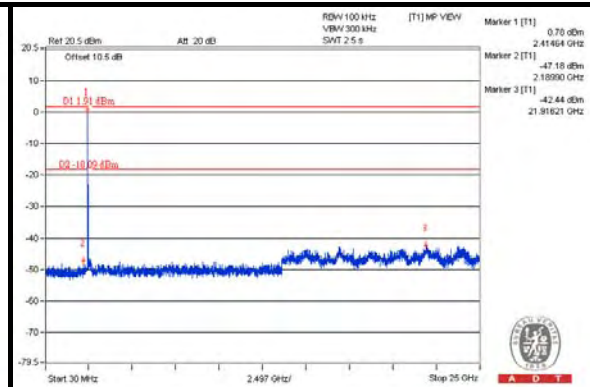
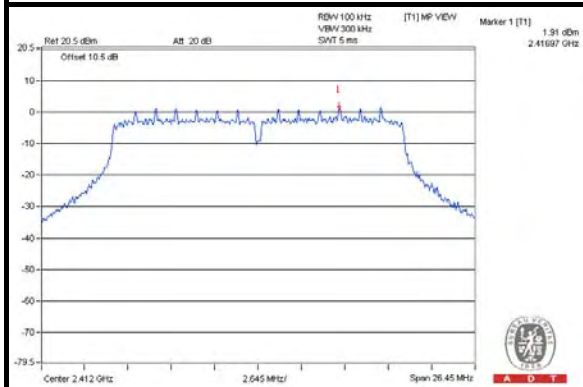




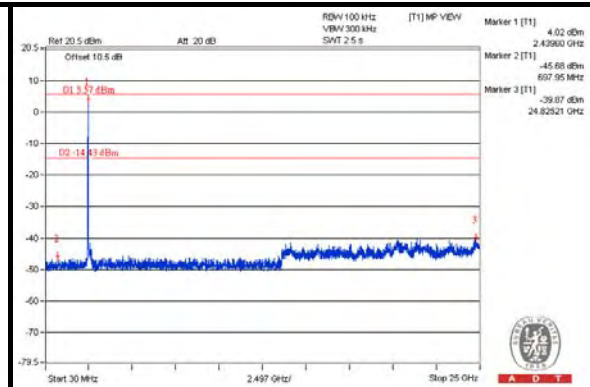
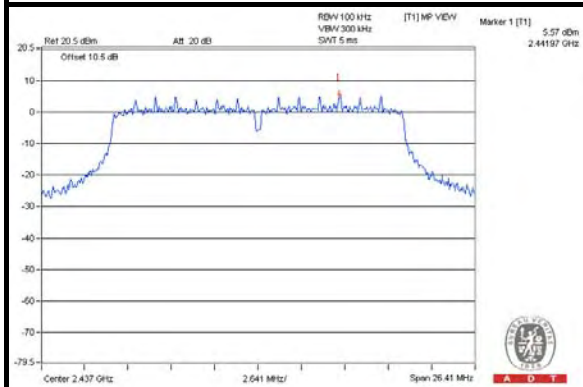
A D T

CHAIN 1

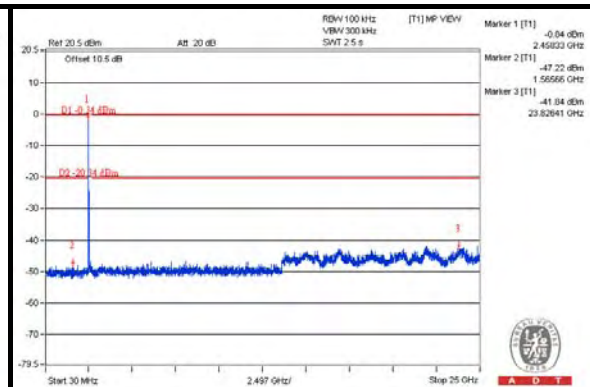
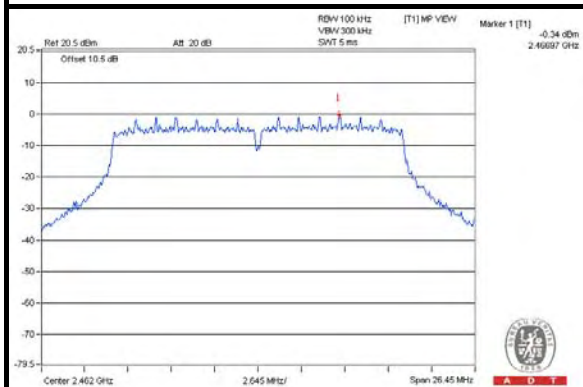
CH 1



CH 6



CH 11

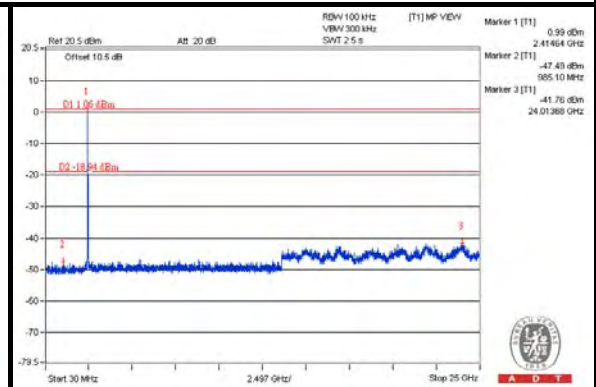
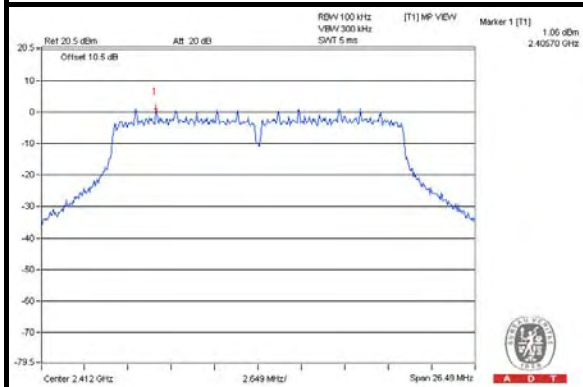




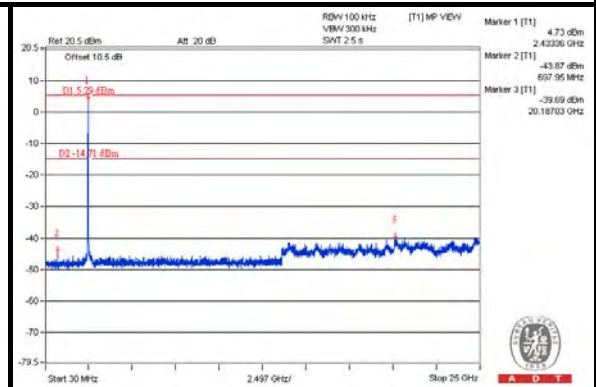
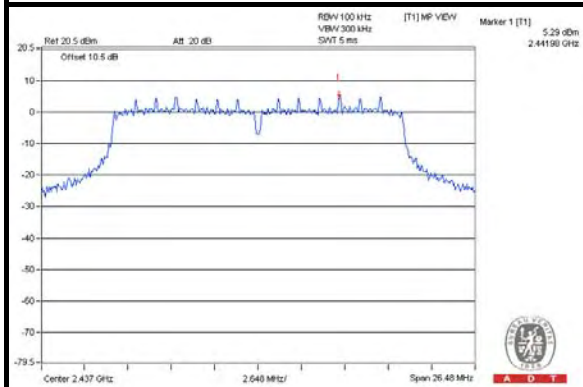
A D T

CHAIN 2

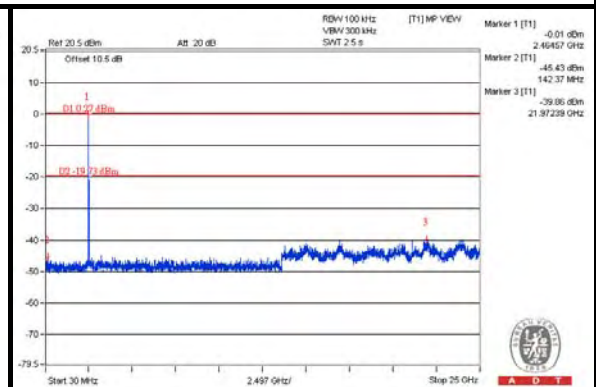
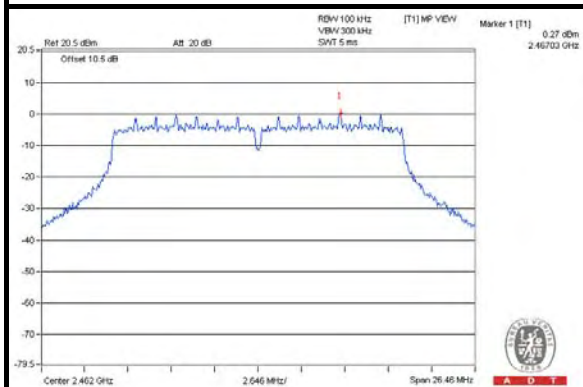
CH 1



CH 6



CH 11



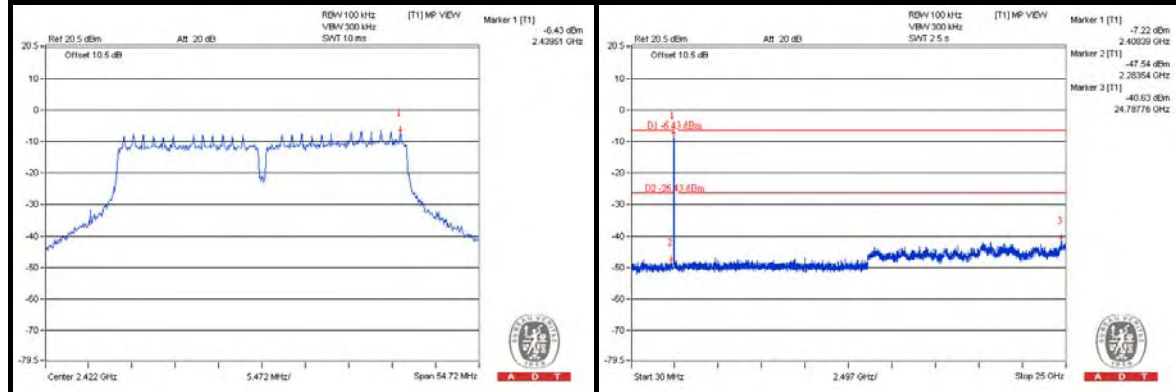


A D T

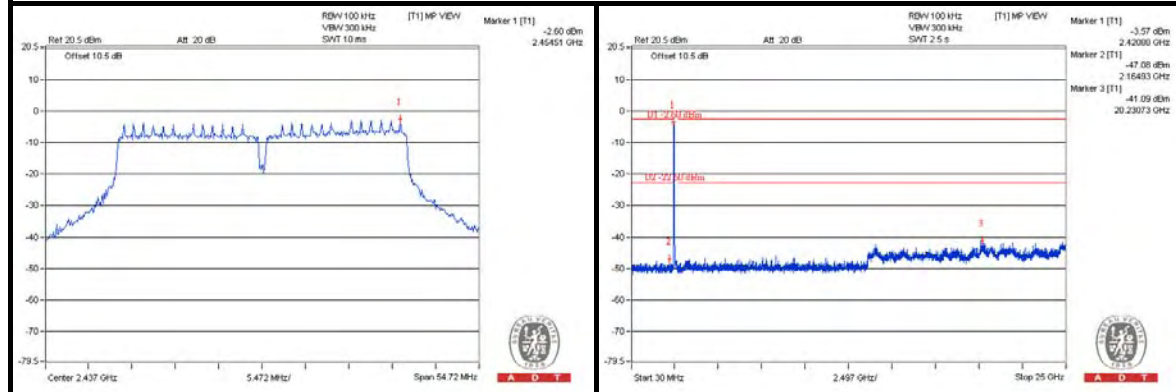
802.11n (40MHz)

CHAIN 0

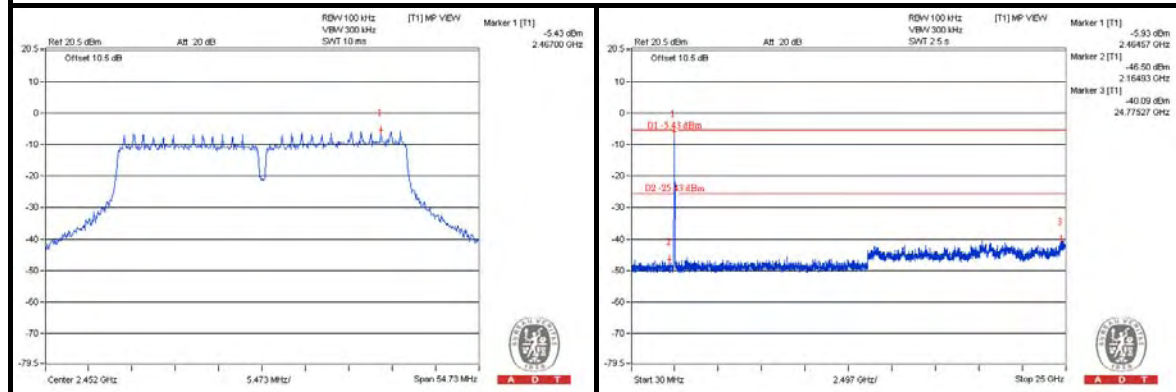
CH 3



CH 6



CH 9

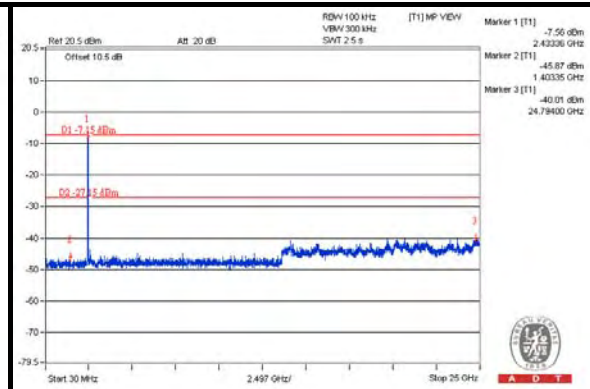
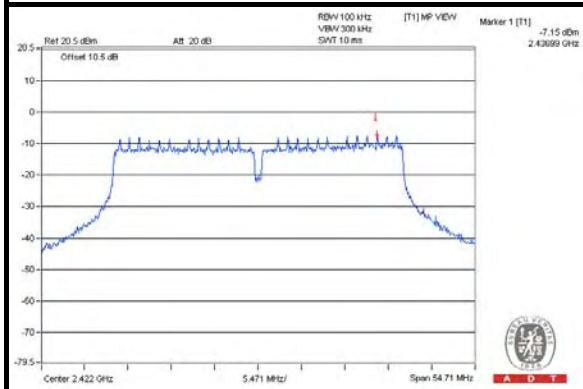




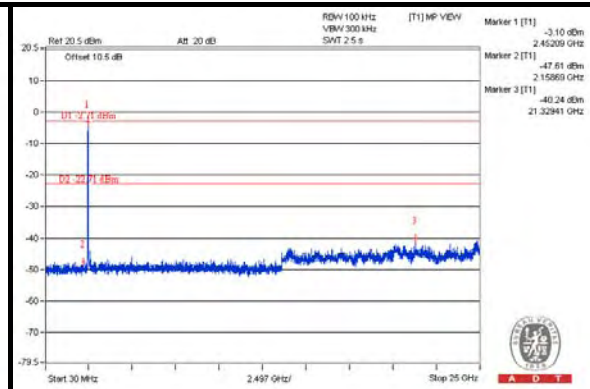
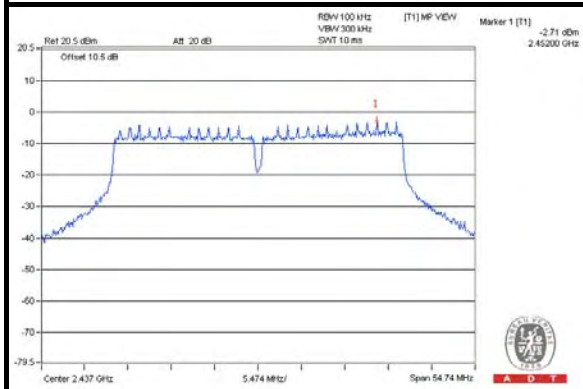
A D T

CHAIN 1

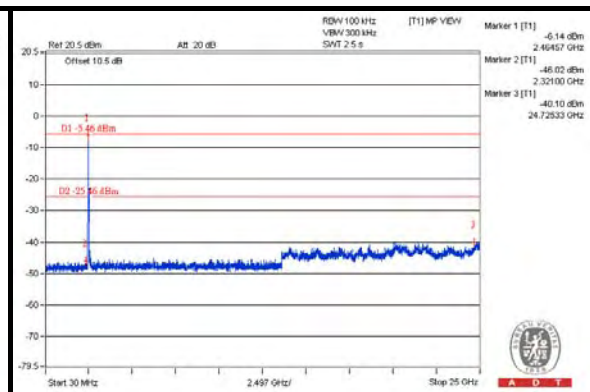
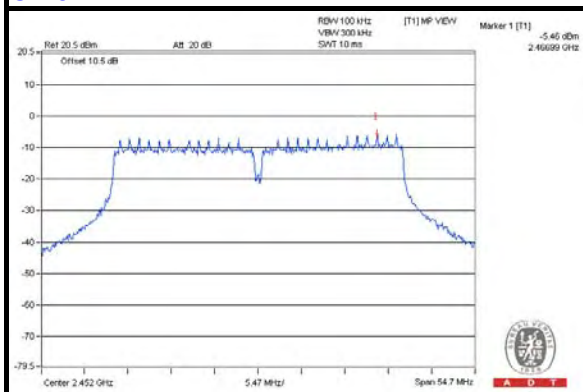
CH 3



CH 6



CH 9

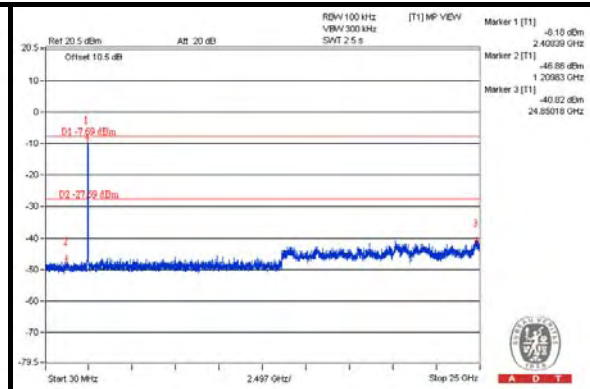
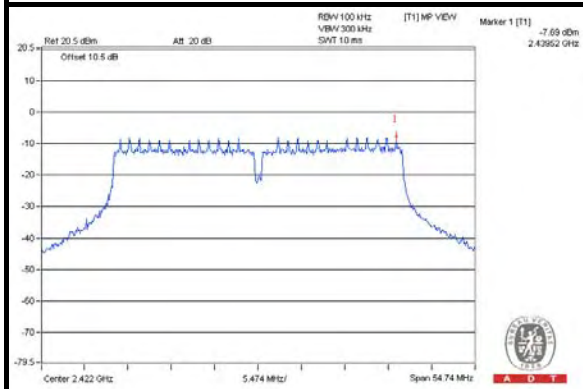




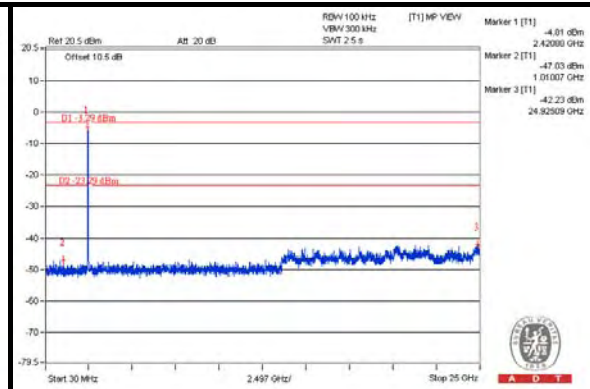
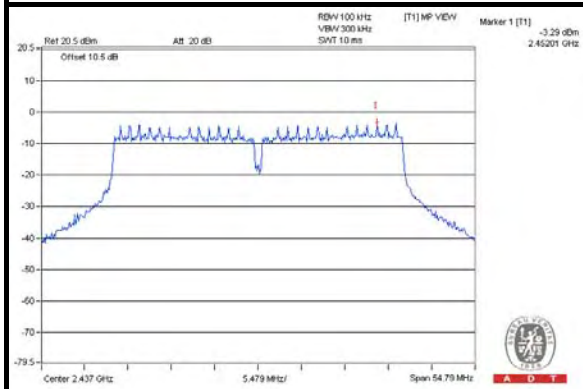
A D T

CHAIN 2

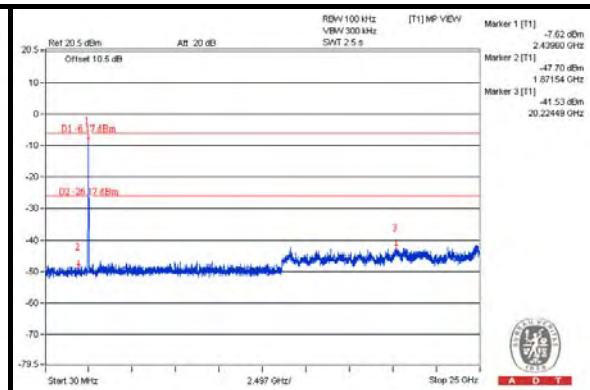
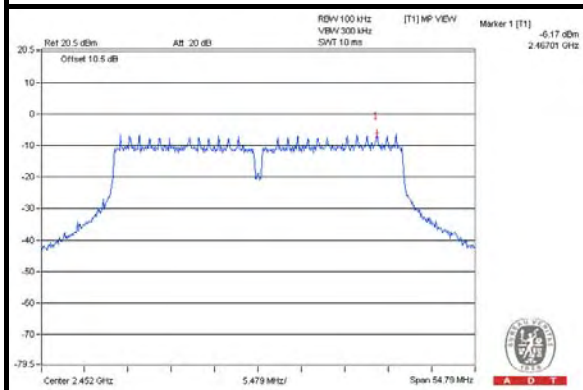
CH 3



CH 6



CH 9

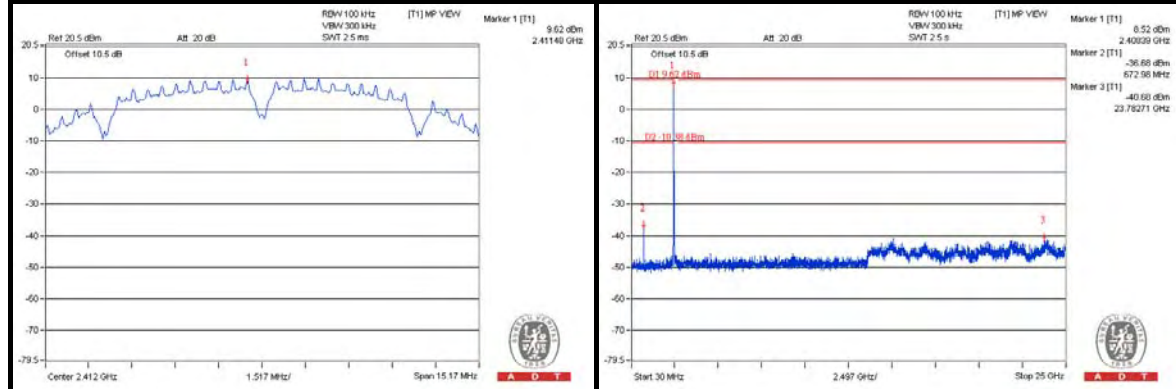


TEST MODE B

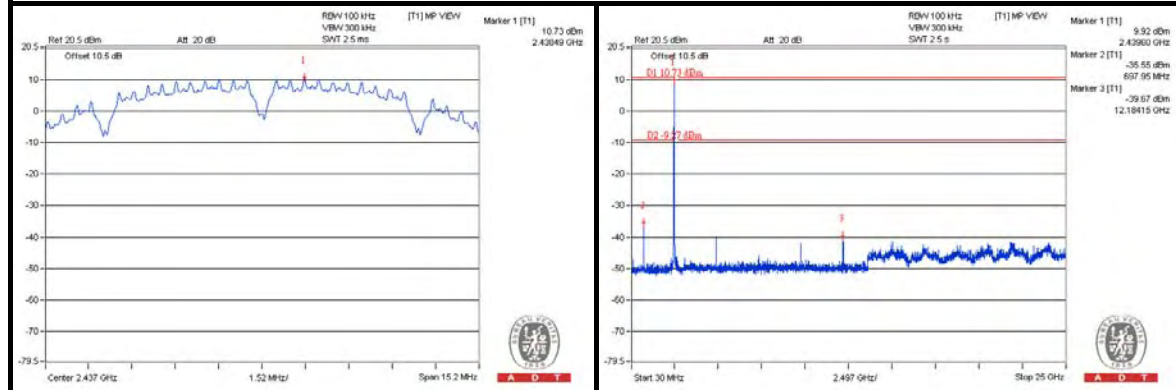
802.11b

CHAIN 0

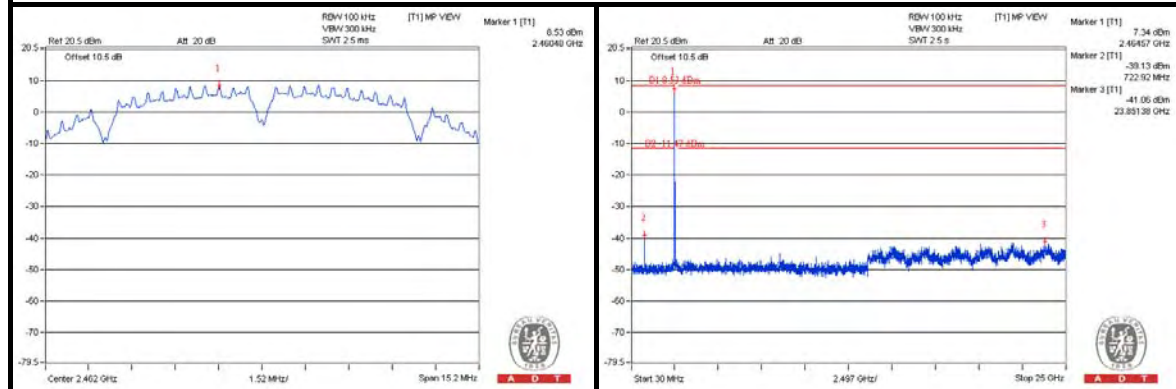
CH 1



CH 6



CH 11

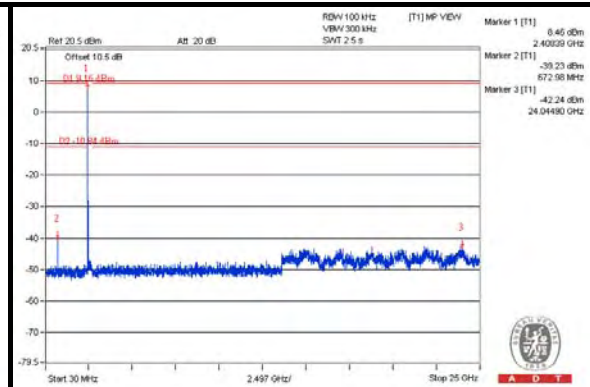
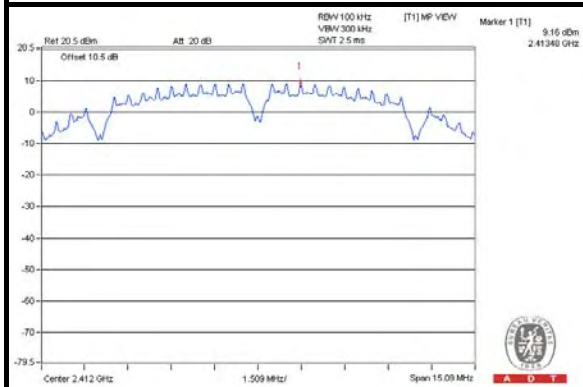




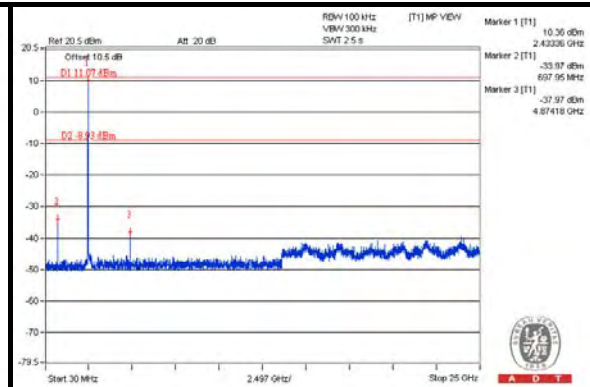
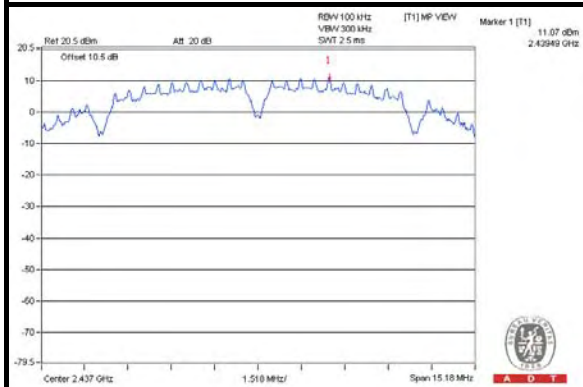
A D T

CHAIN 1

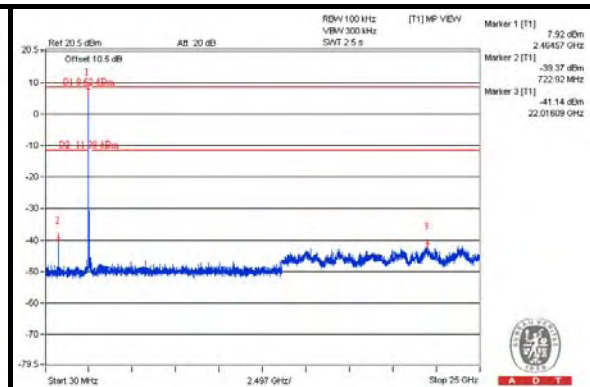
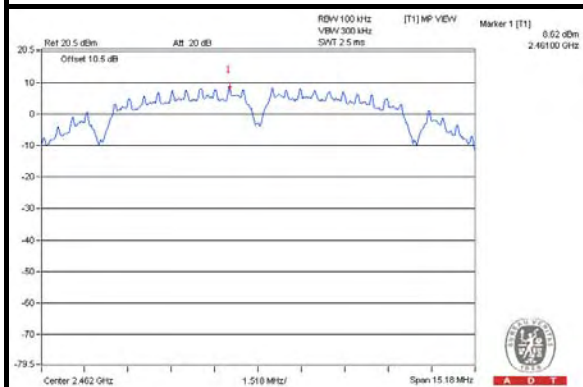
CH 1



CH 6

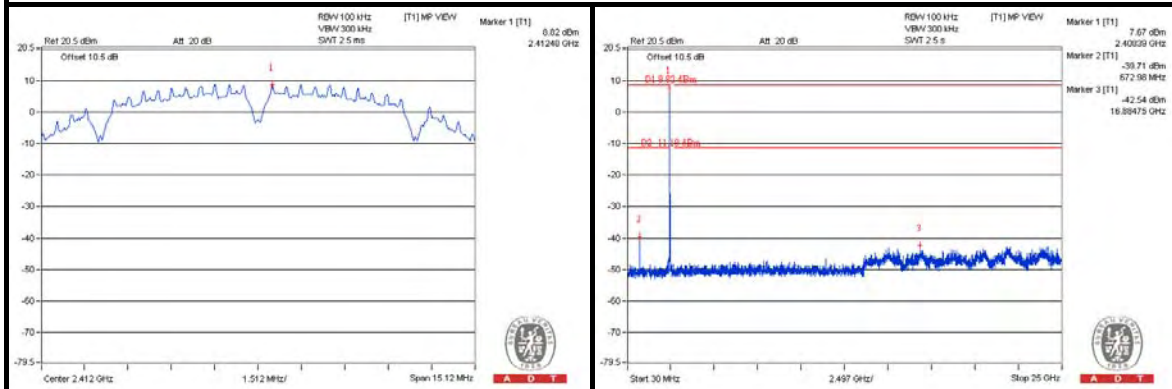


CH 11

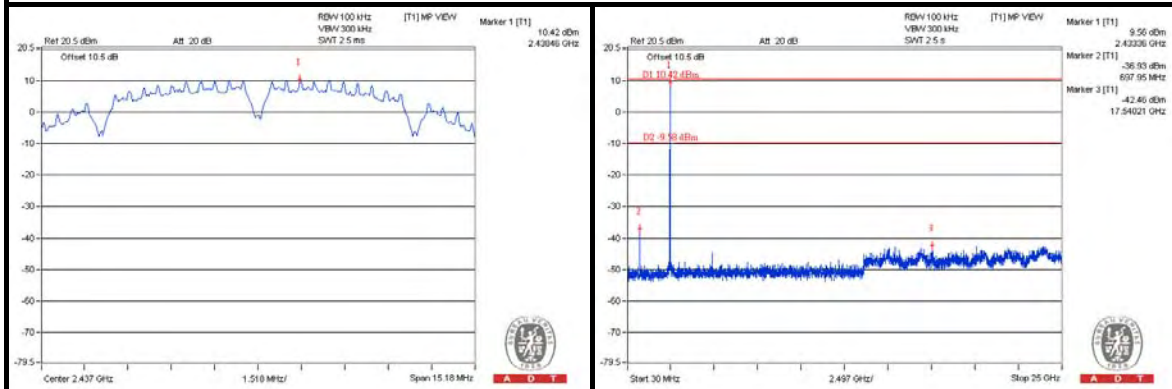


CHAIN 2

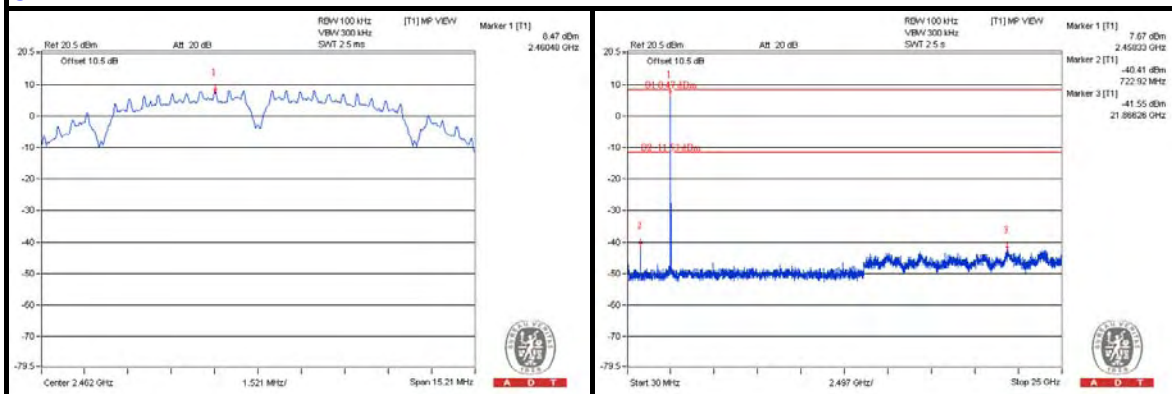
CH 1



CH 6



CH 11

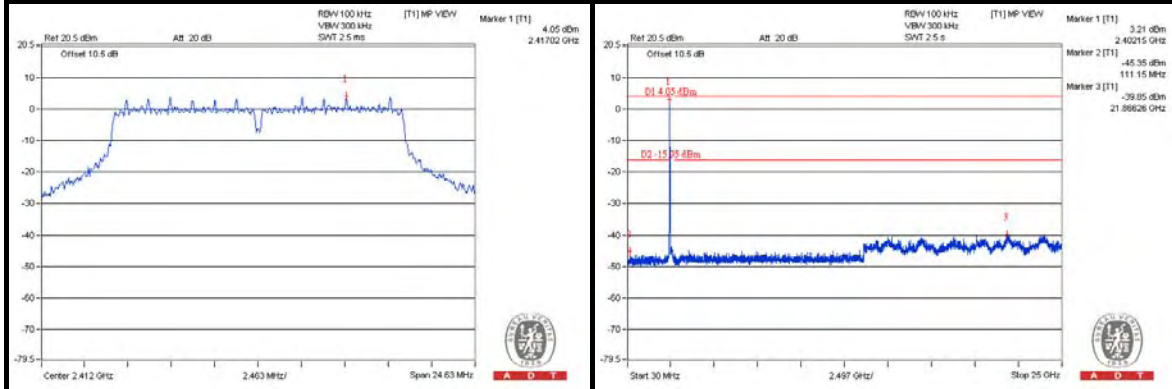




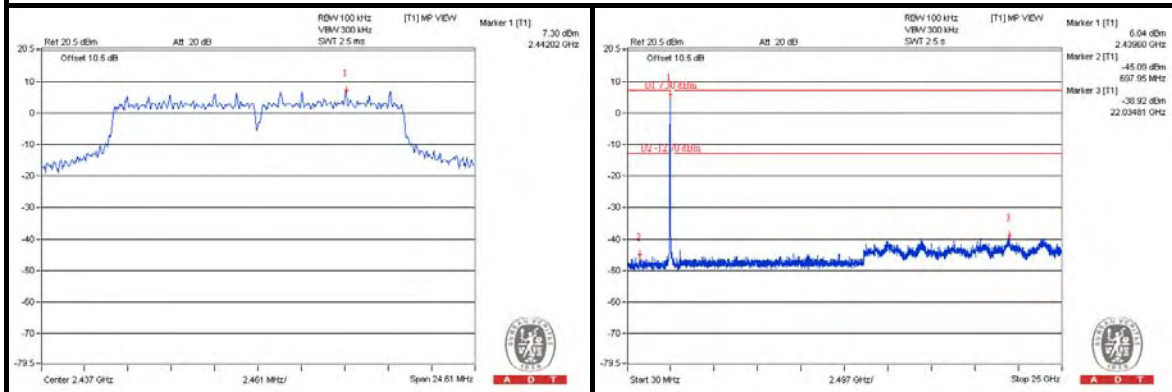
A D T

802.11g
CHAIN 0

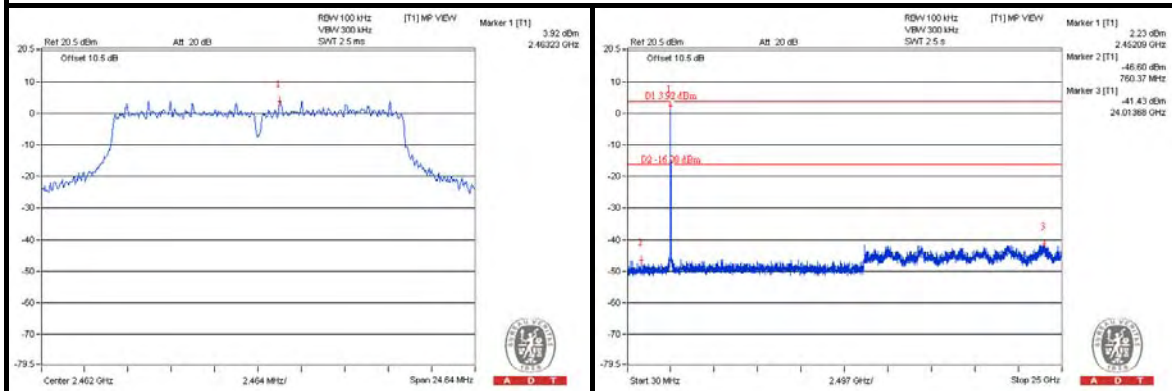
CH 1



CH 6

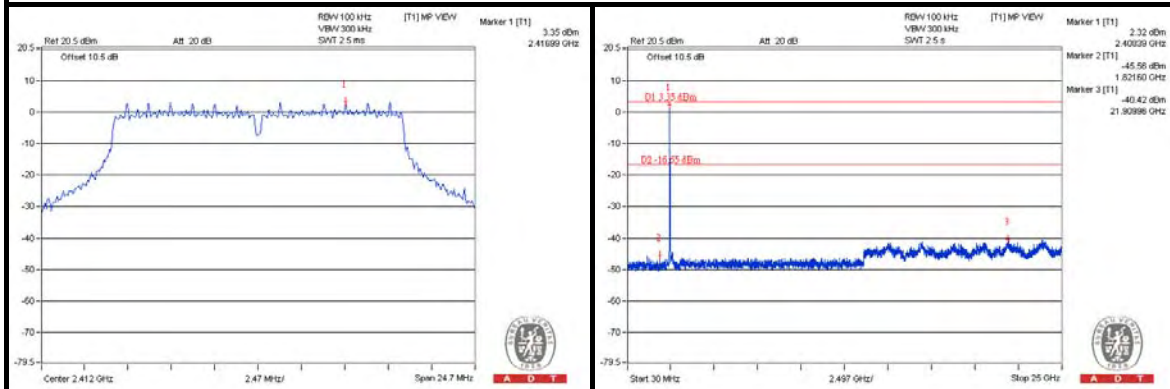


CH 11

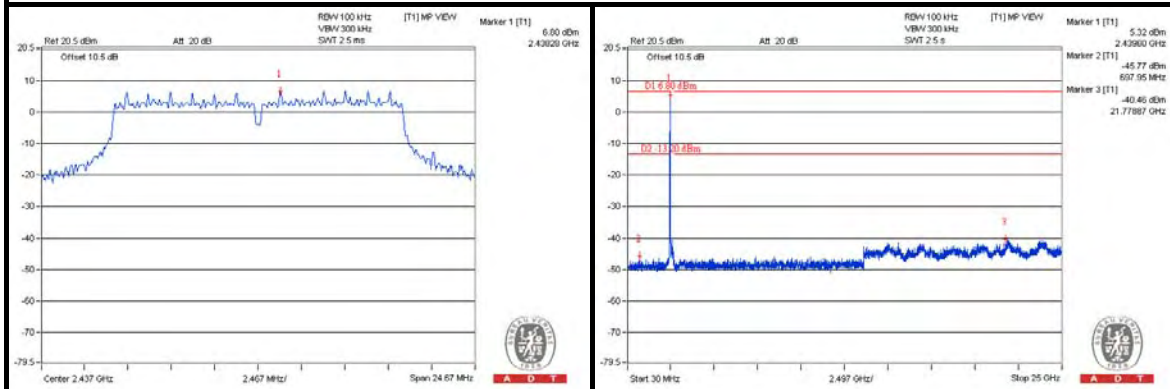


CHAIN 1

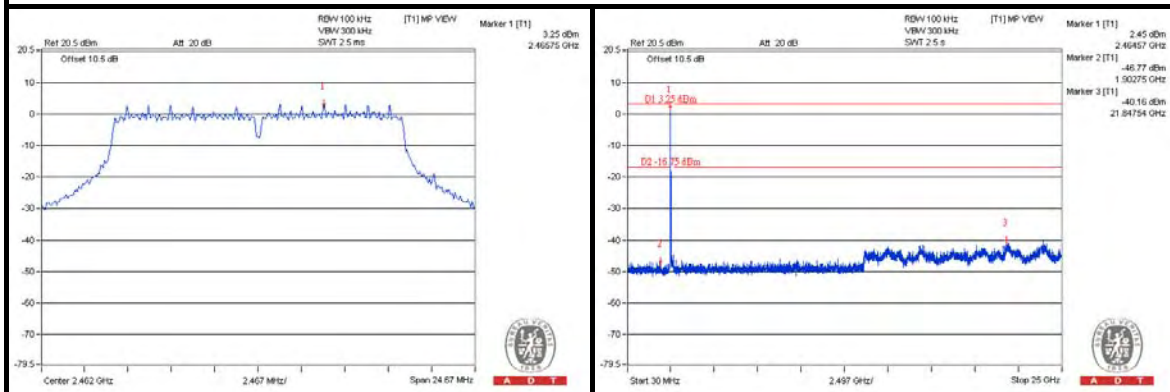
CH 1



CH 6

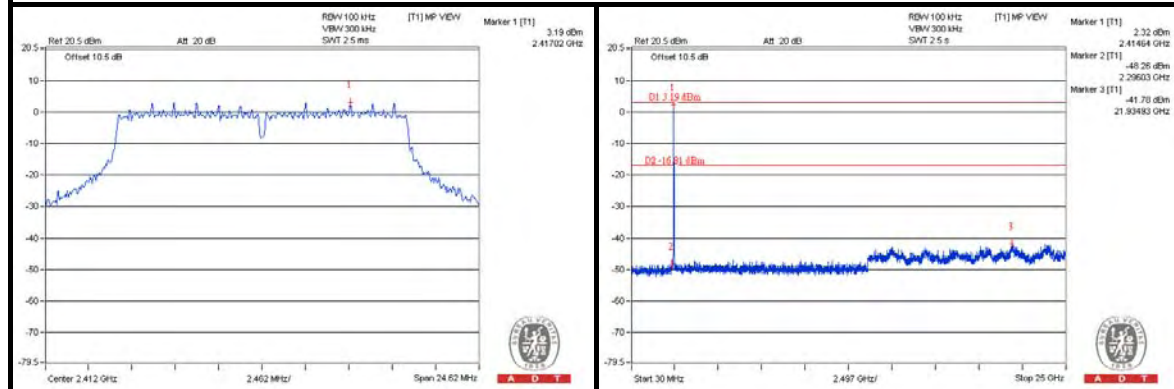


CH 11

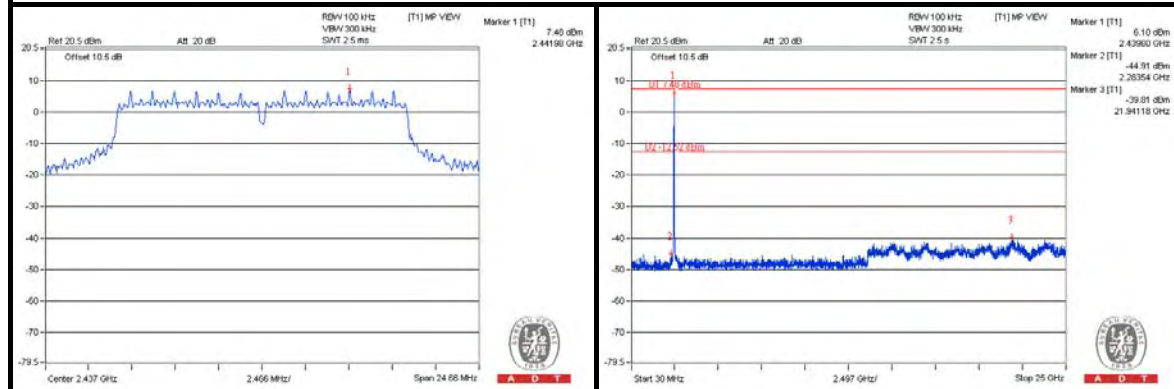


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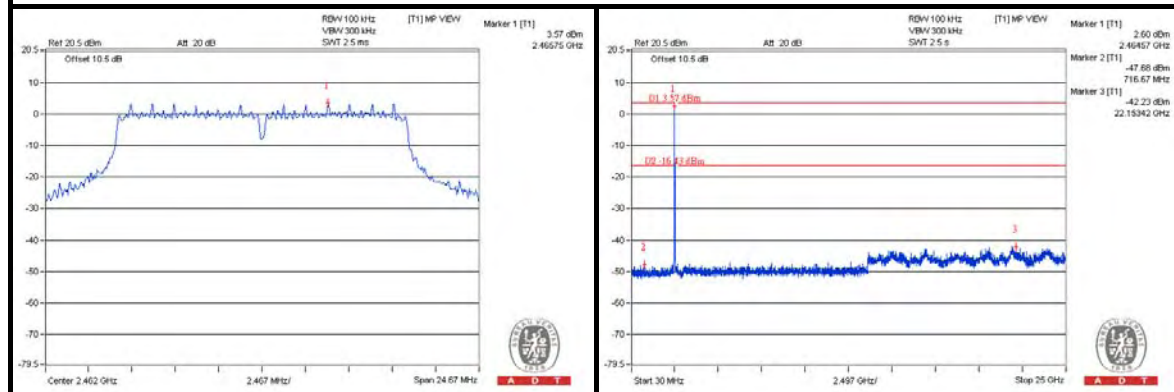
CH 1



CH 6



CH 11

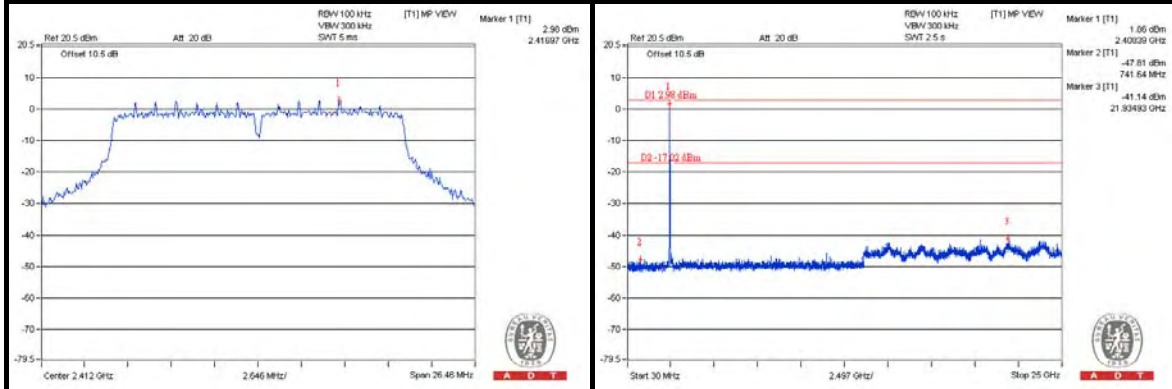




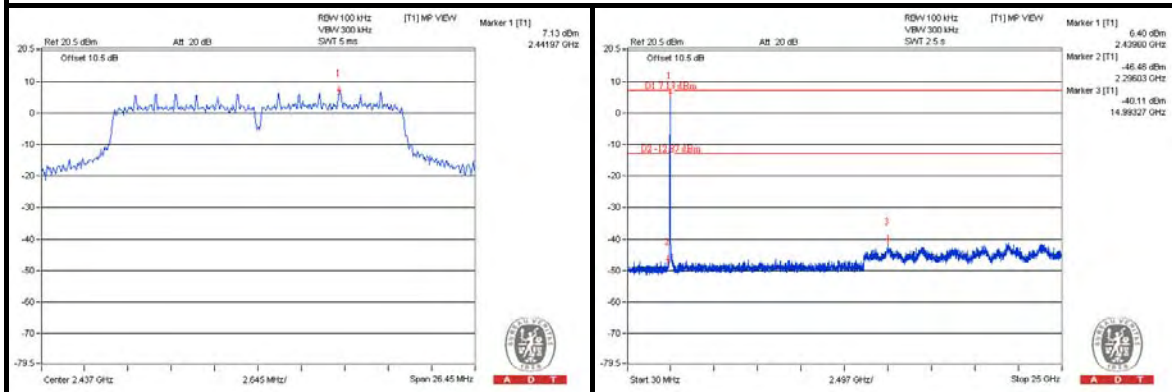
A D T

802.11n (20MHz) CHAIN 0

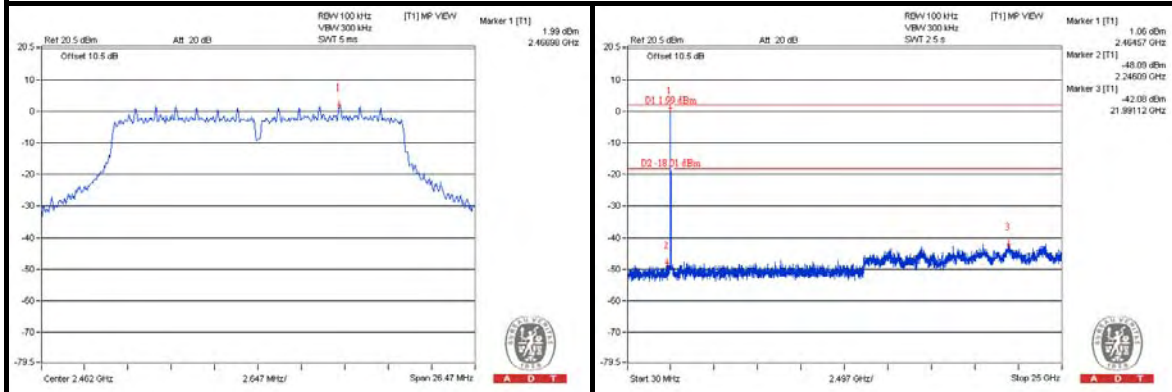
CH 1



CH 6



CH 11

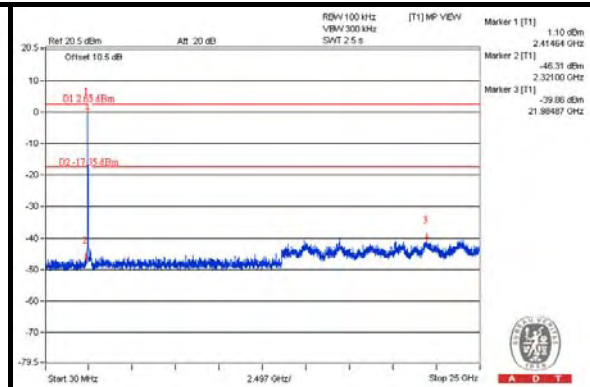
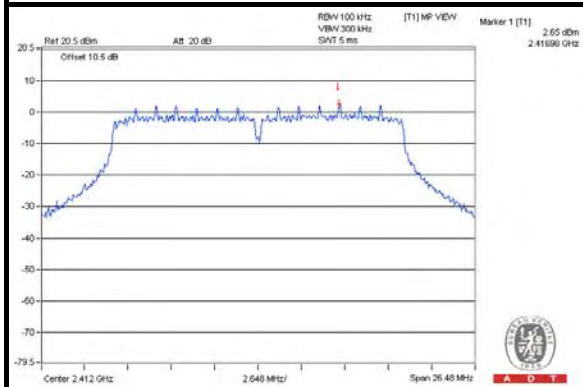




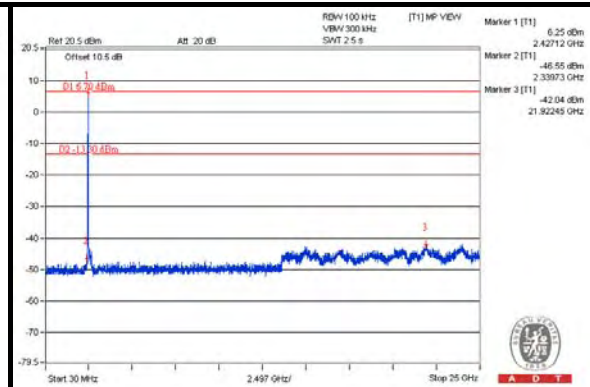
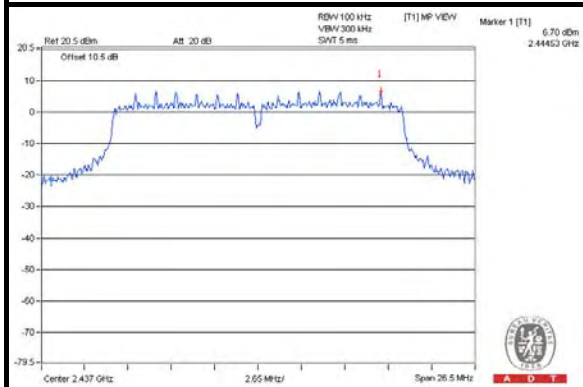
A D T

CHAIN 1

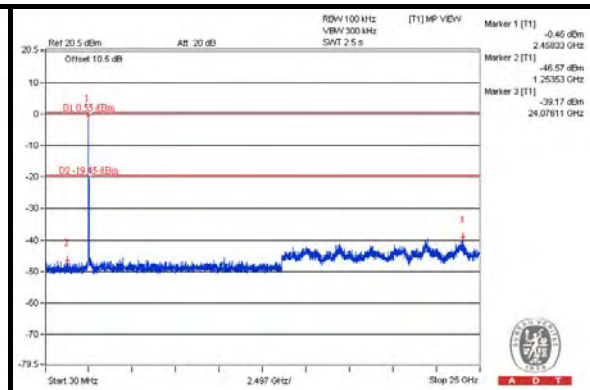
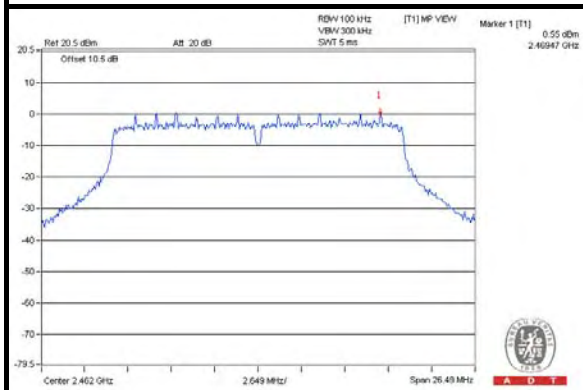
CH 1



CH 6

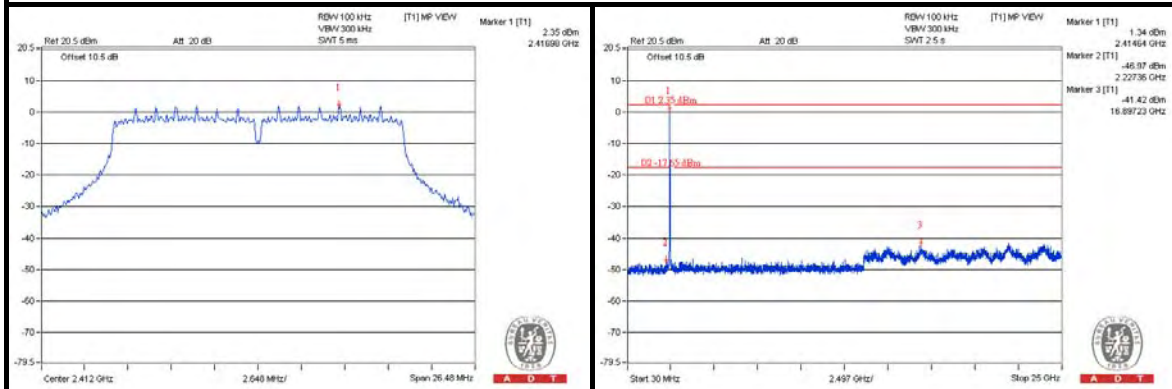


CH 11

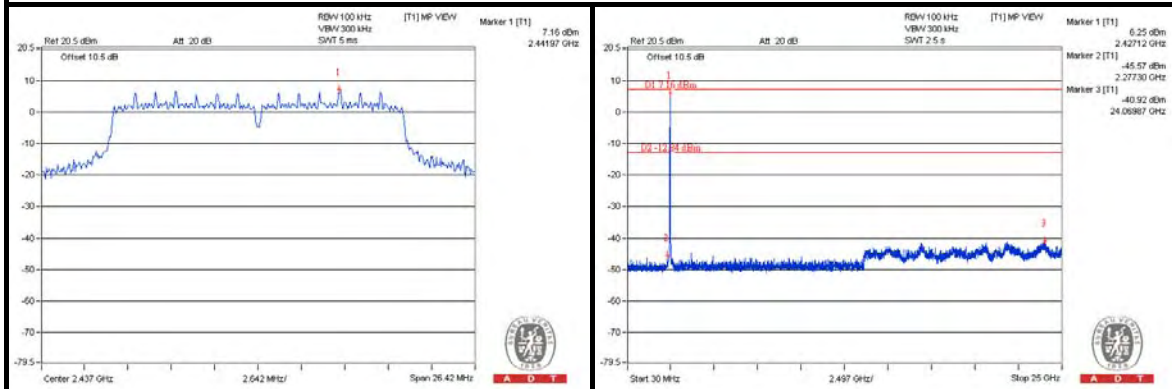


CHAIN 2

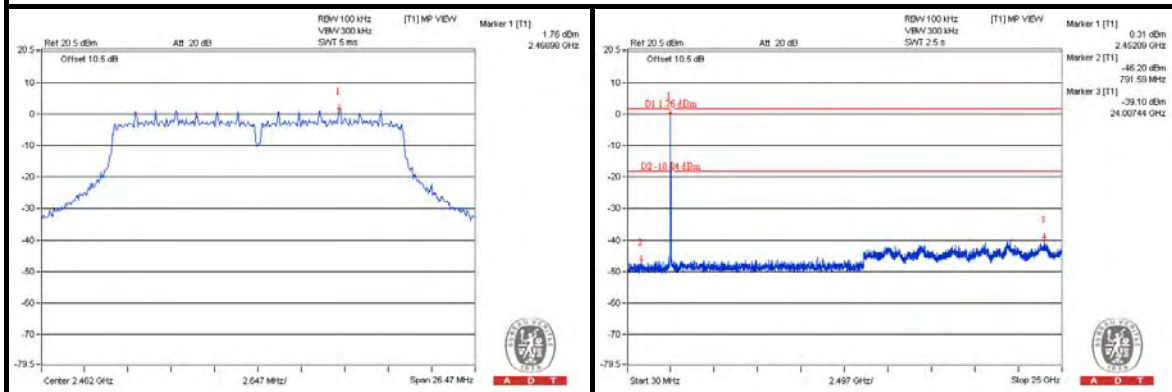
CH 1



CH 6



CH 11



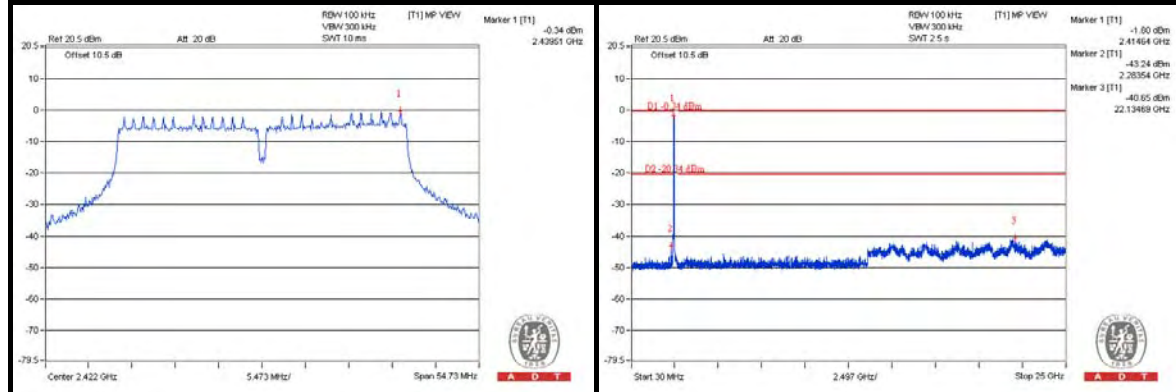


A D T

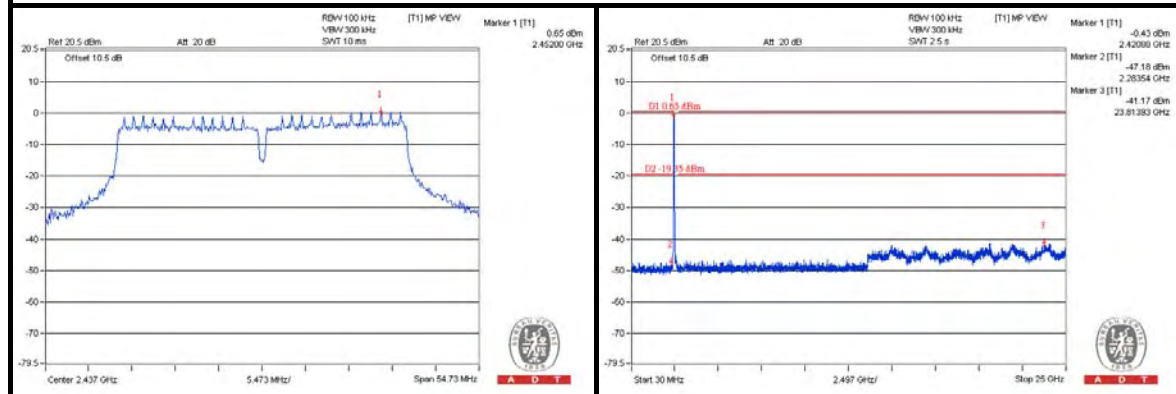
802.11n (40MHz)

CHAIN 0

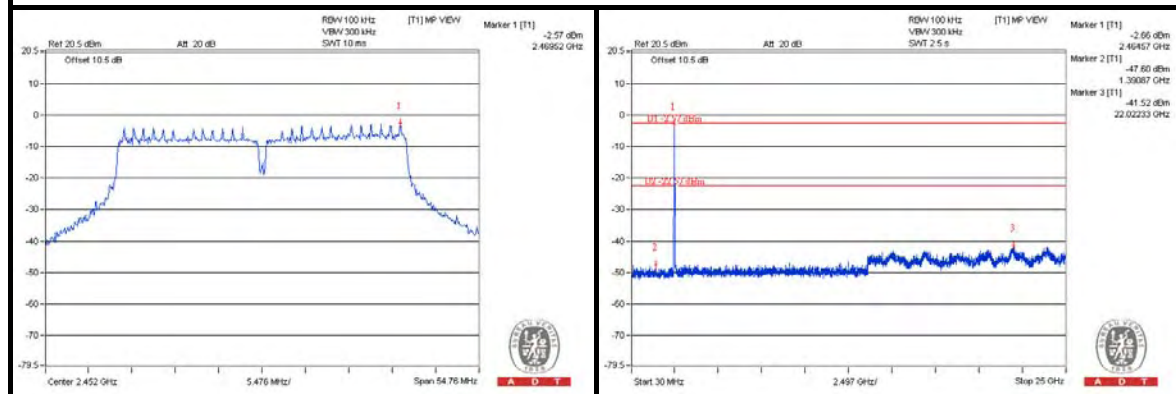
CH 3



CH 6

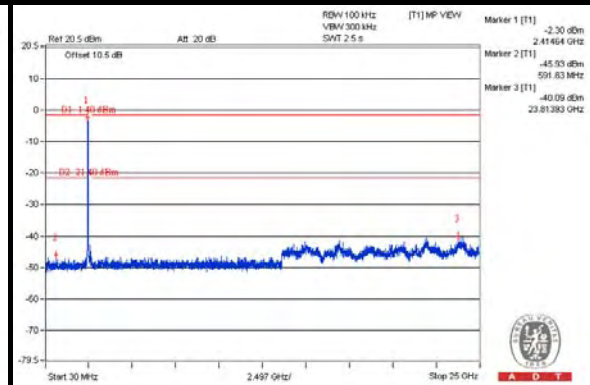
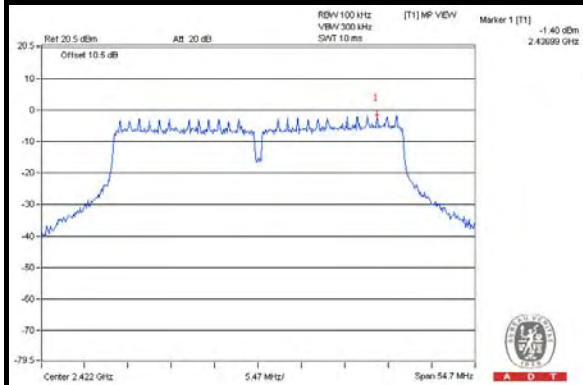


CH 9

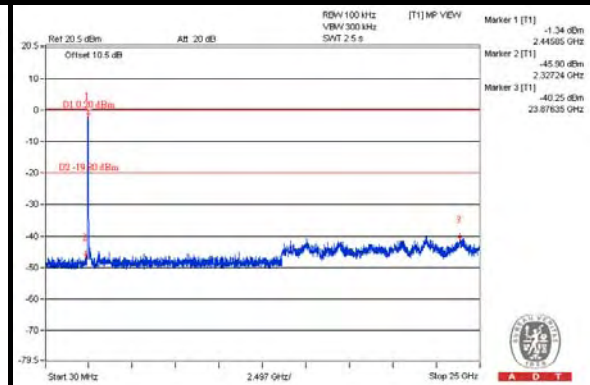
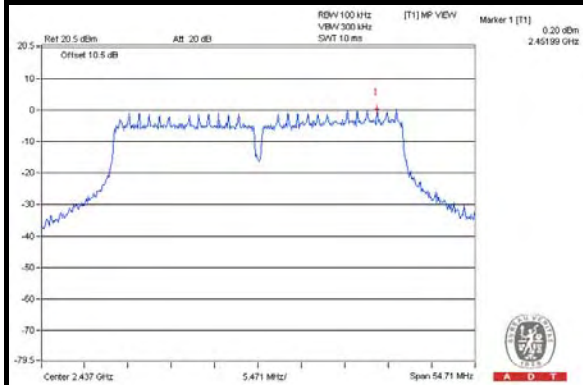


CHAIN 1

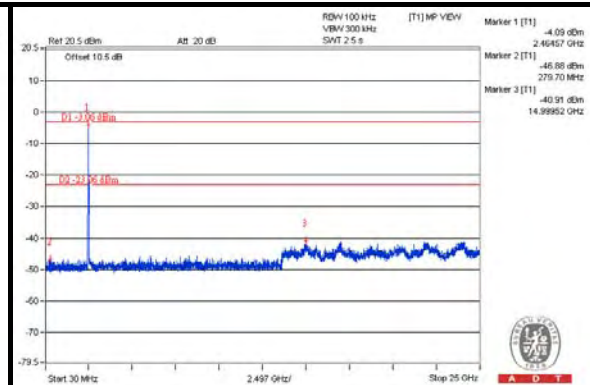
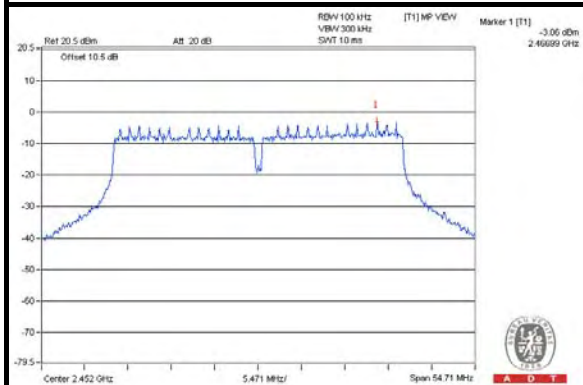
CH 3



CH 6

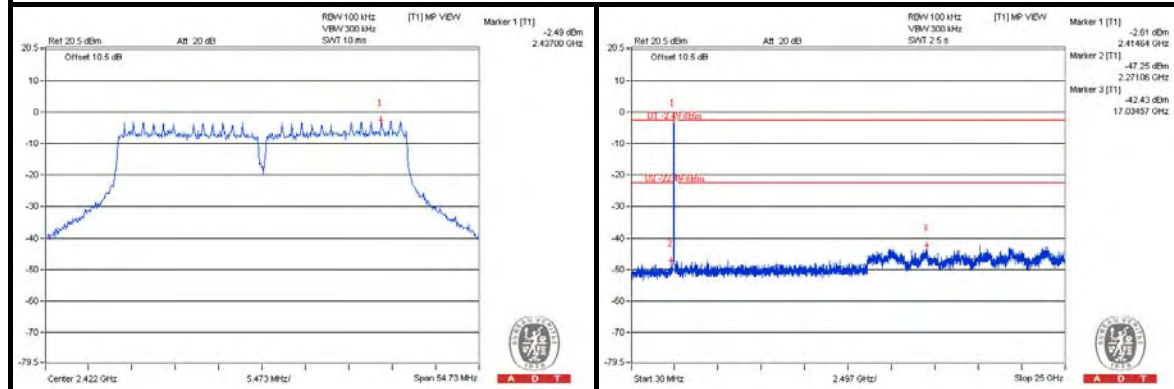


CH 9

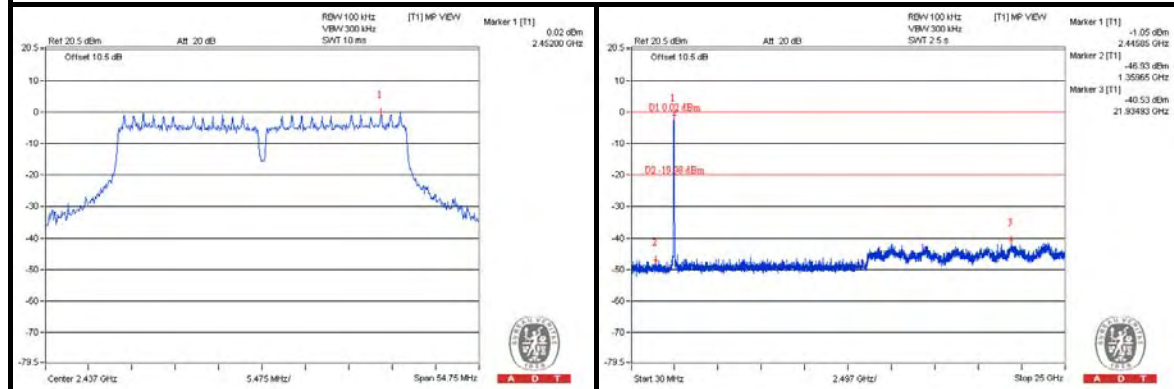


CHAIN 2

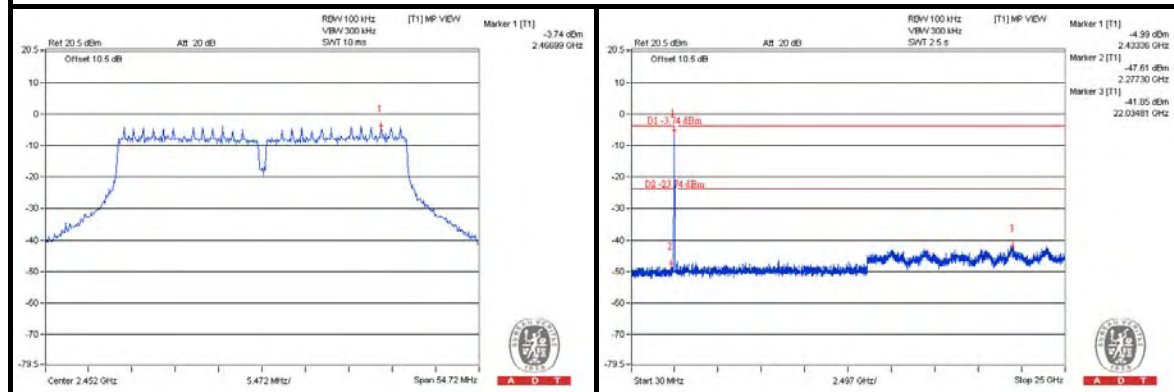
CH 3



CH 6



CH 9





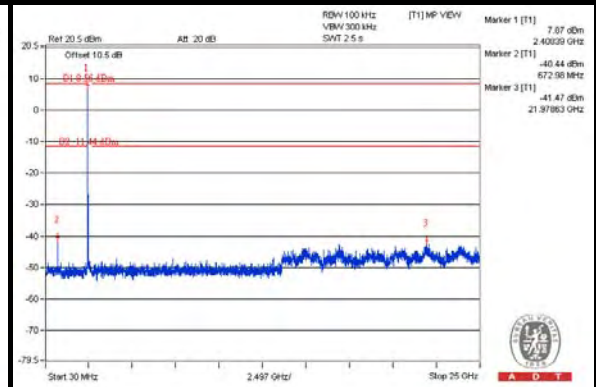
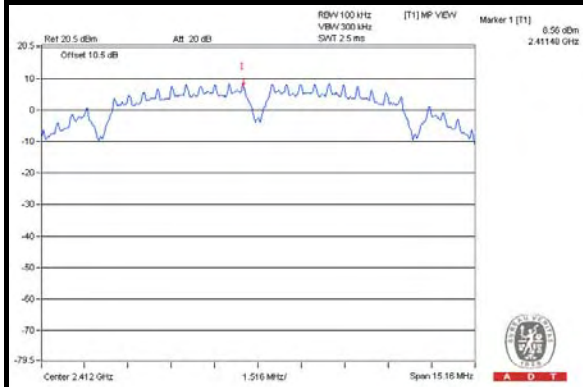
A D T

TEST MODE C

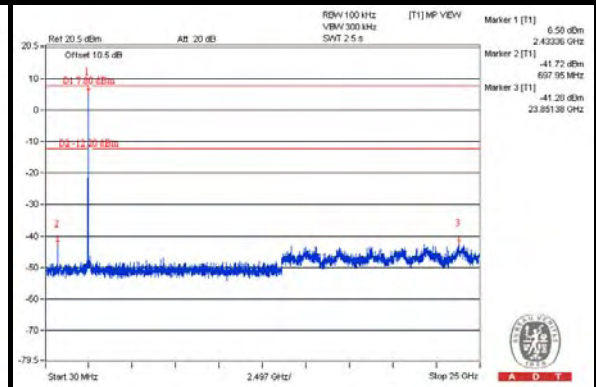
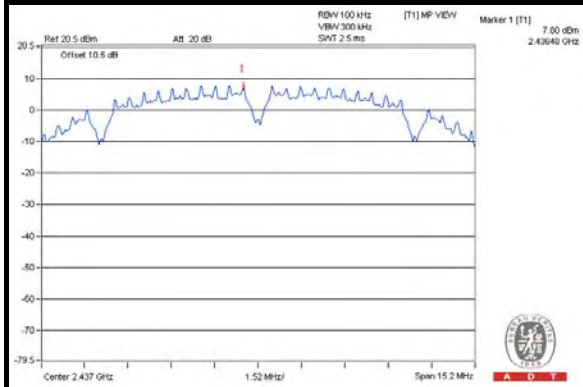
802.11b

CHAIN 0

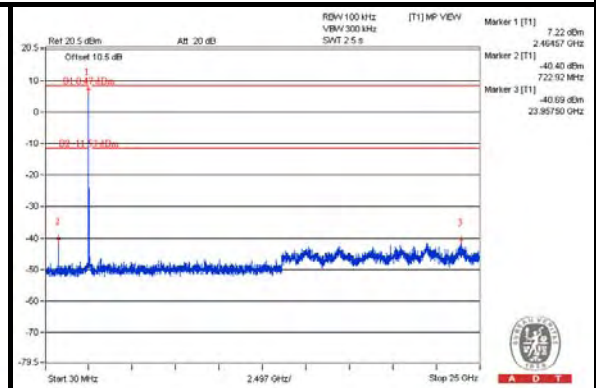
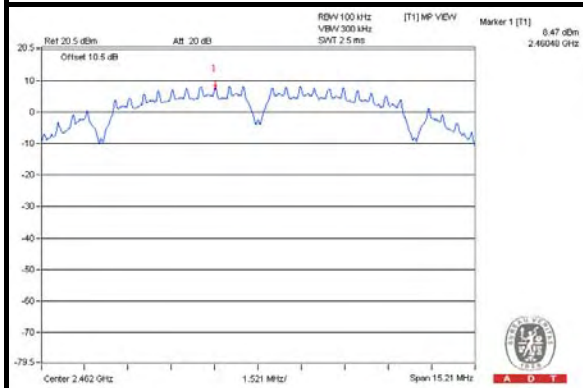
CH 1



CH 6

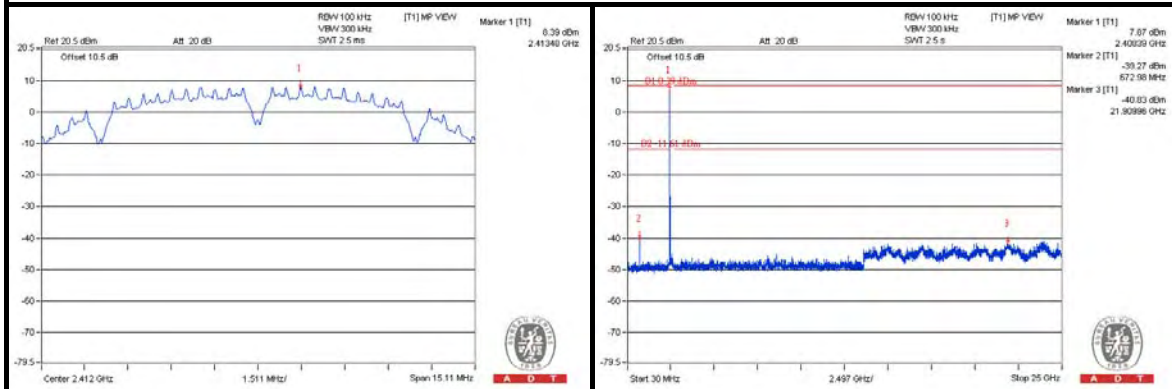


CH 11

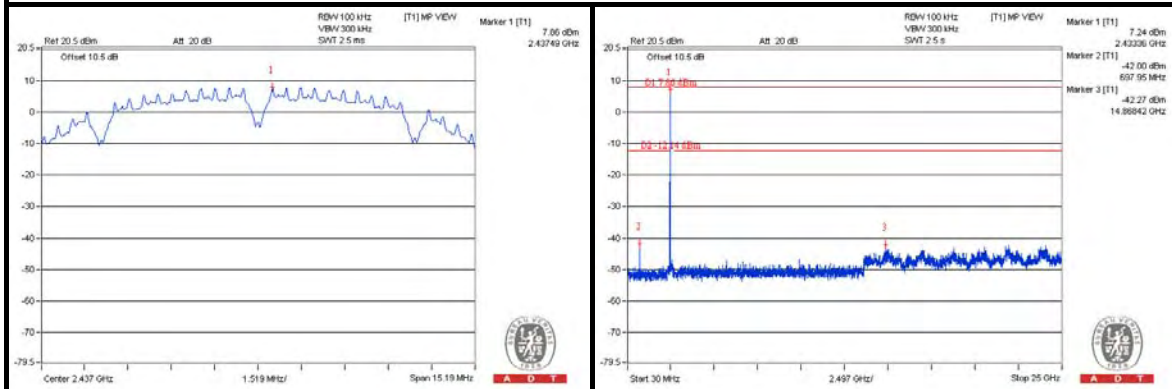


CHAIN 1

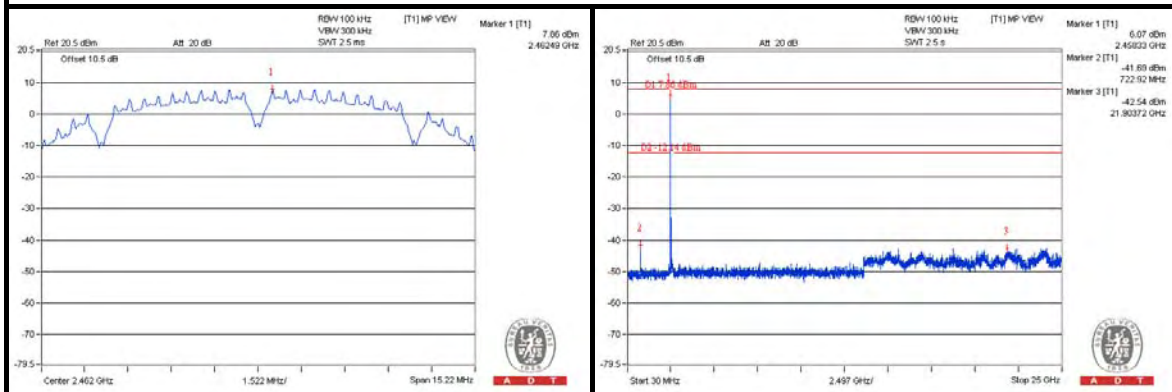
CH 1



CH 6



CH 11

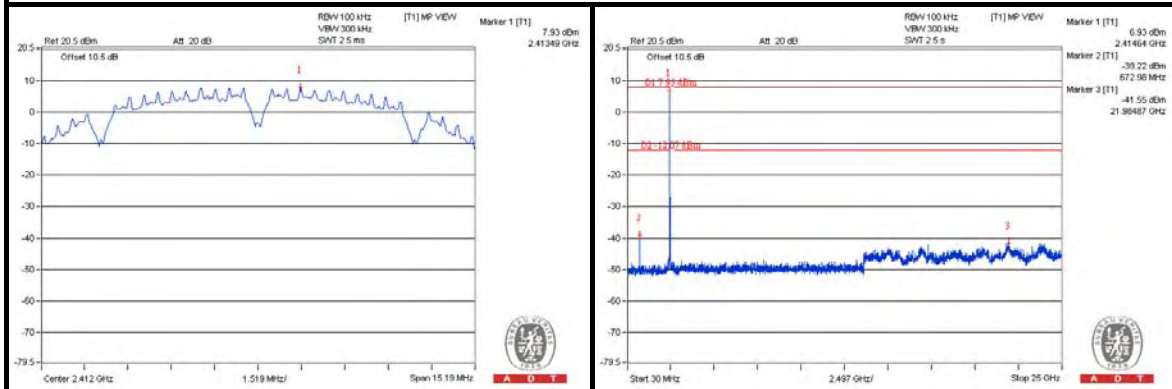




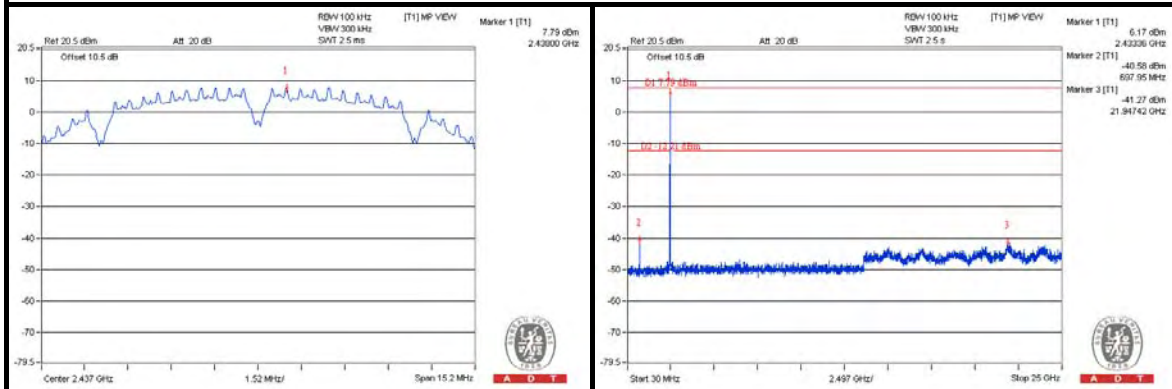
A D T

CHAIN 2

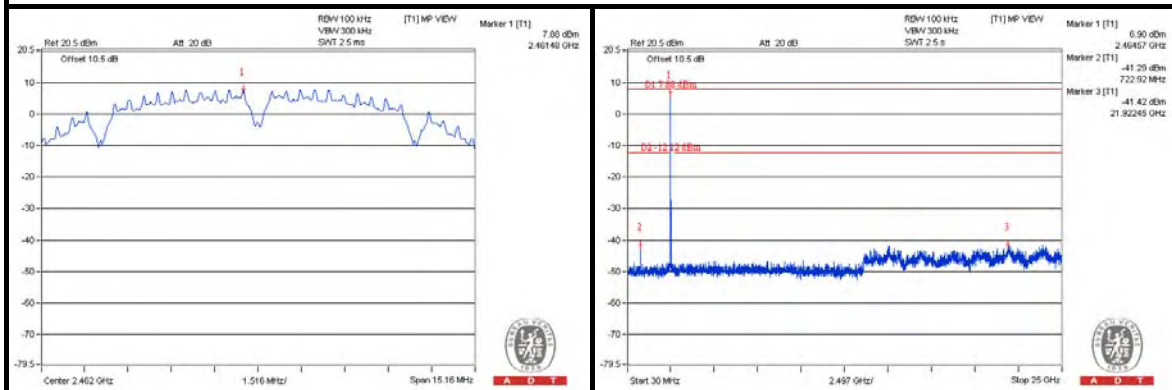
CH 1



CH 6



CH 11

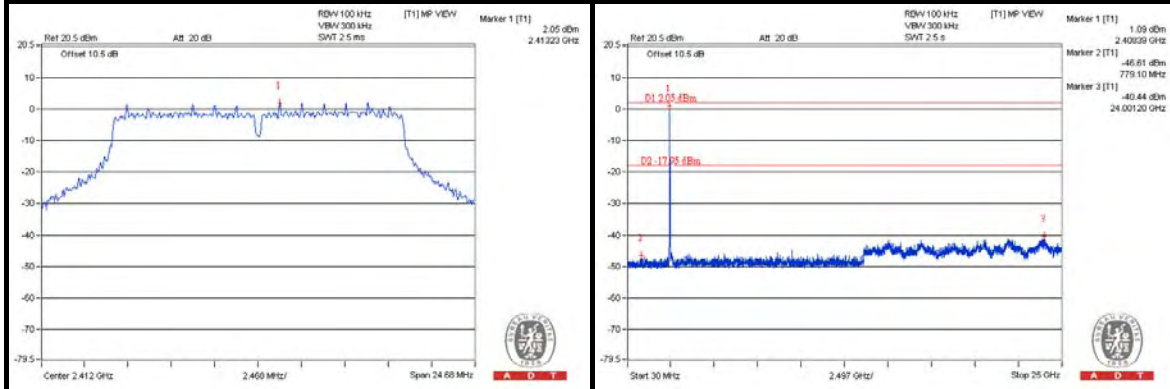




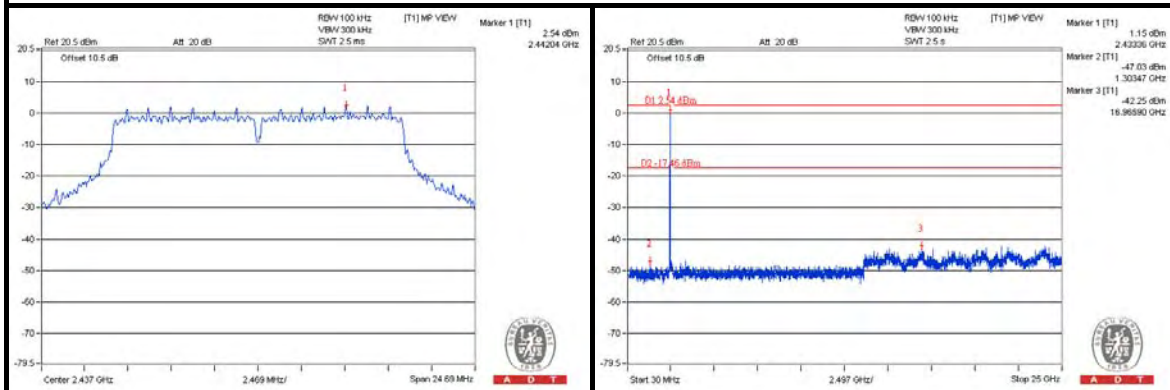
A D T

802.11g CHAIN 0

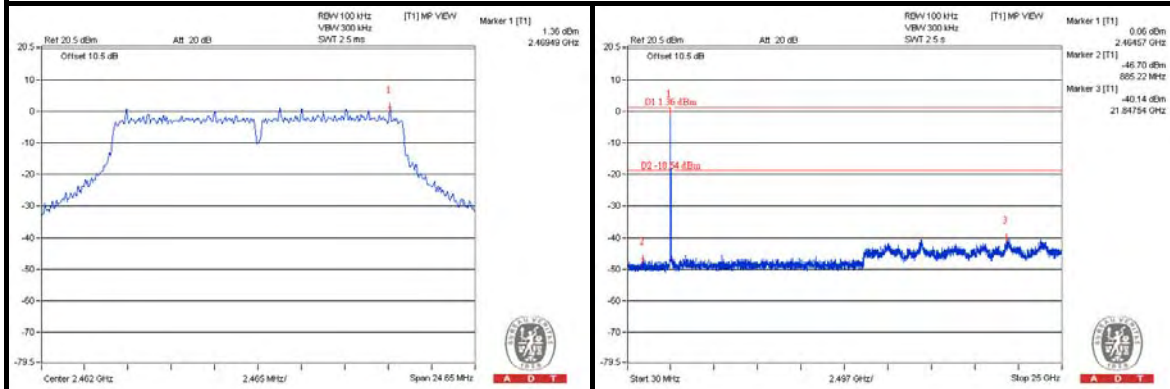
CH 1



CH 6



CH 11

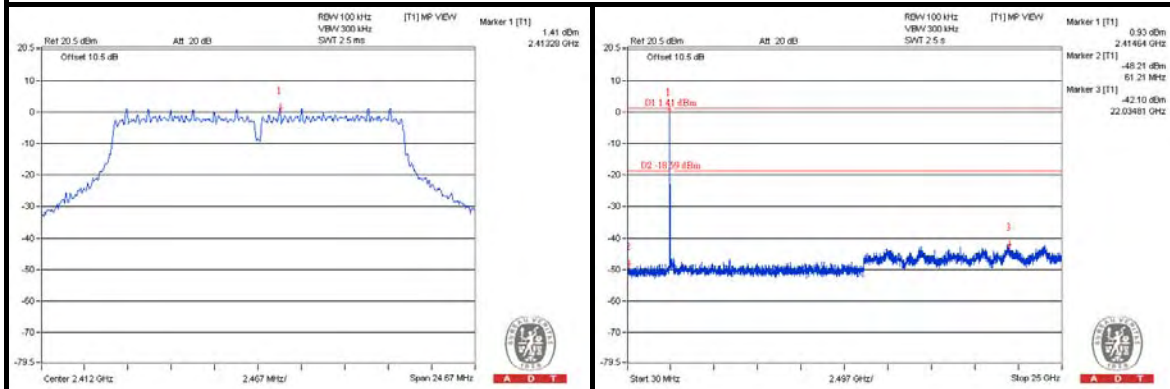




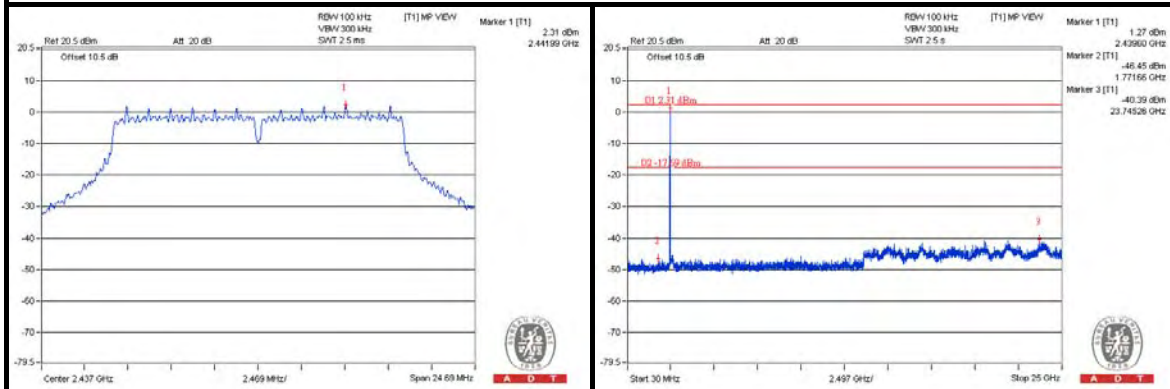
A D T

CHAIN 1

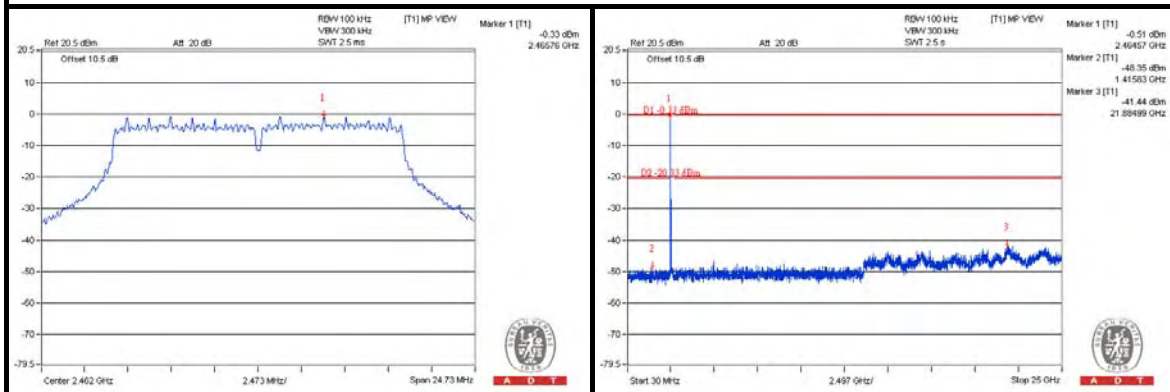
CH 1



CH 6



CH 11

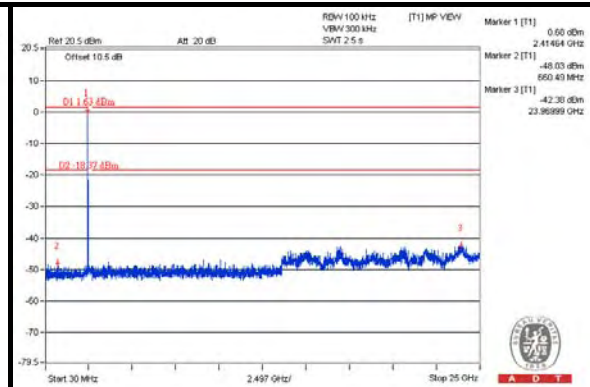
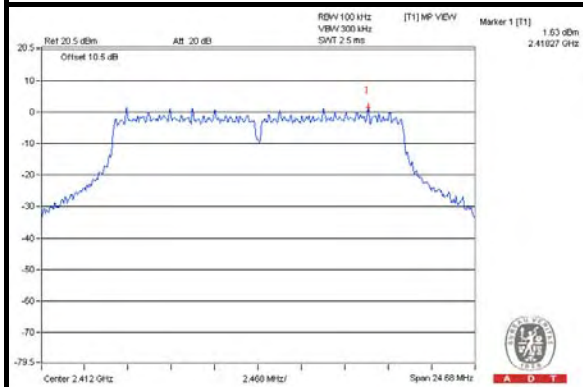




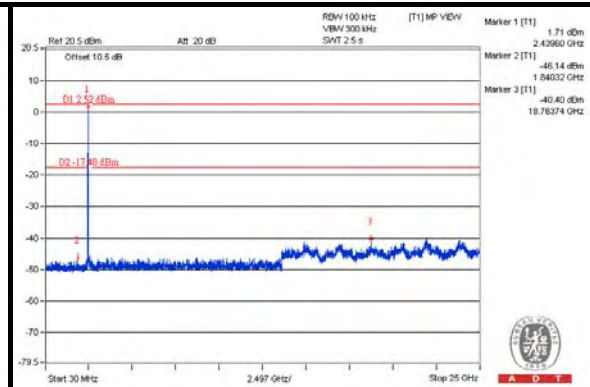
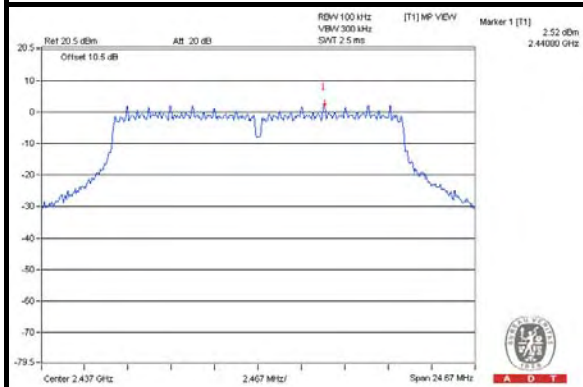
A D T

CHAIN 2

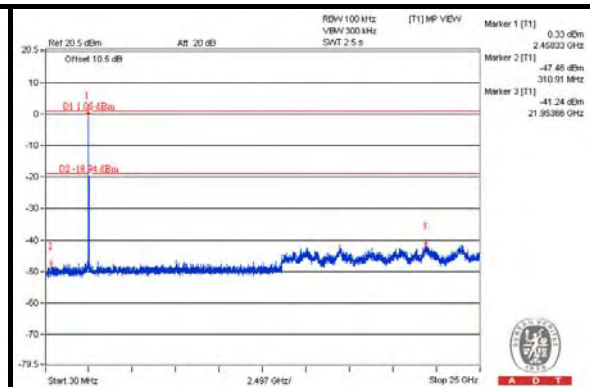
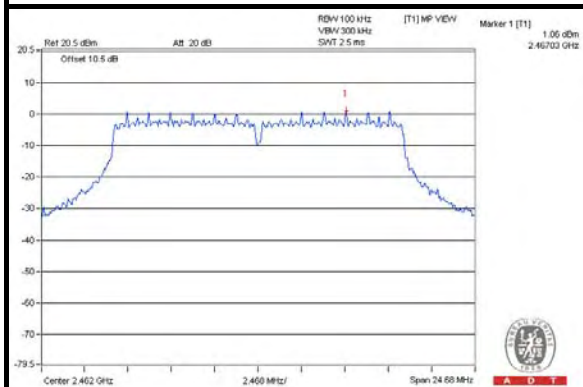
CH 1



CH 6



CH 11



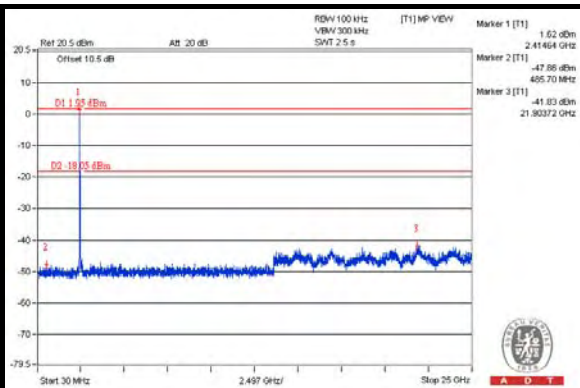
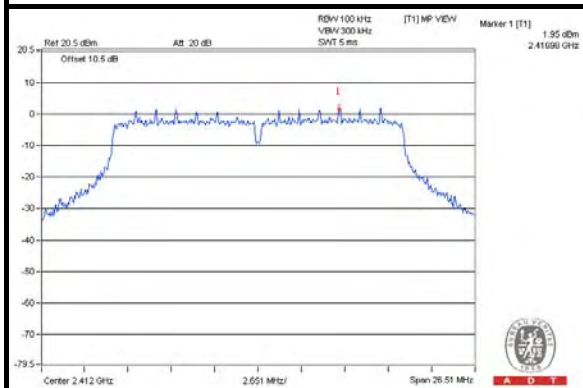


A D T

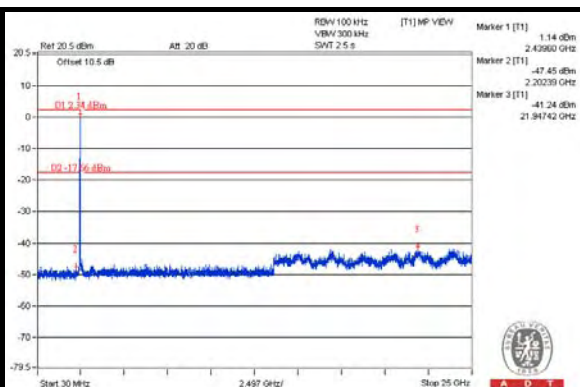
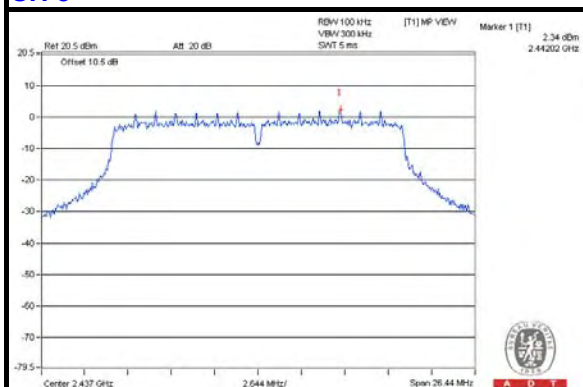
802.11n (20MHz)

CHAIN 0

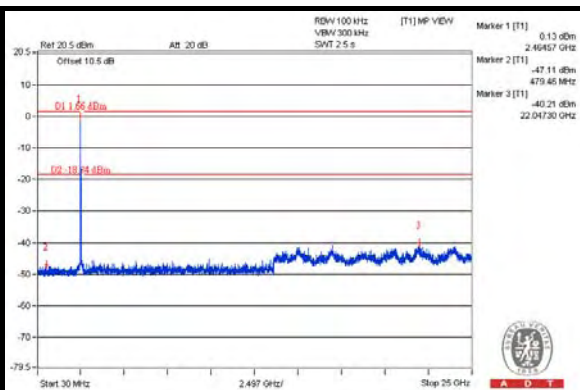
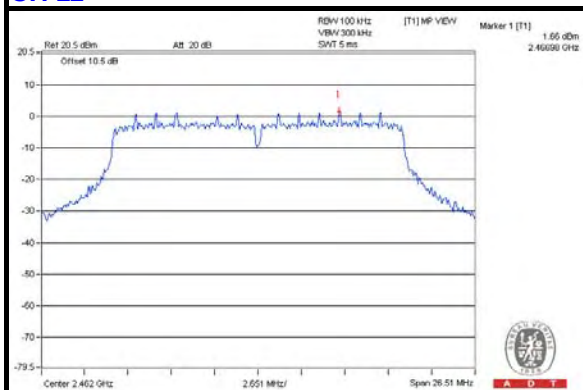
CH 1



CH 6



CH 11

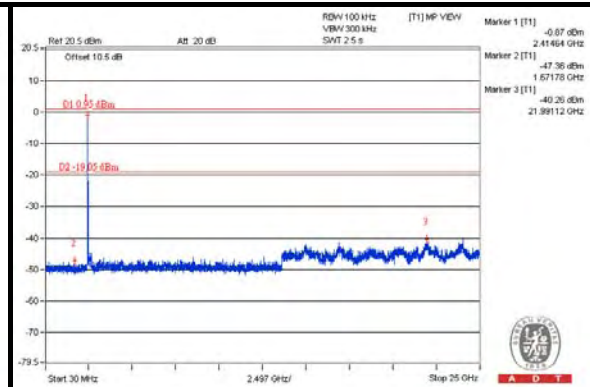
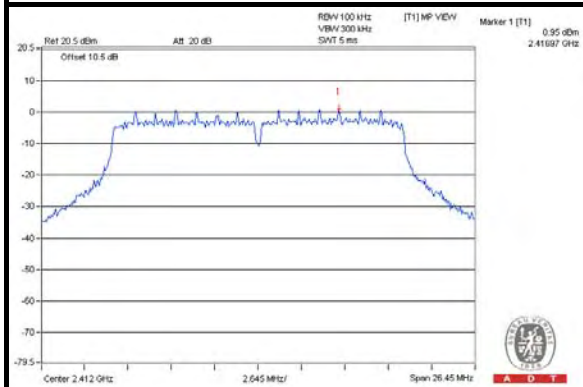




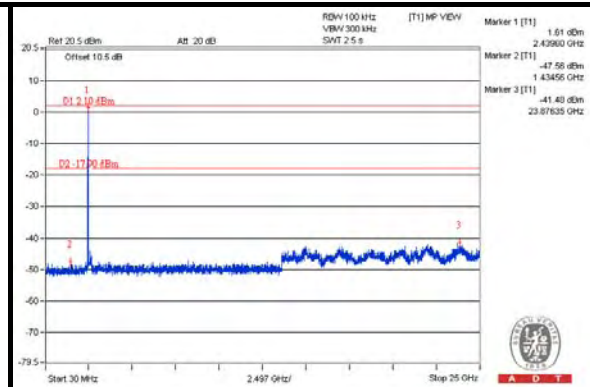
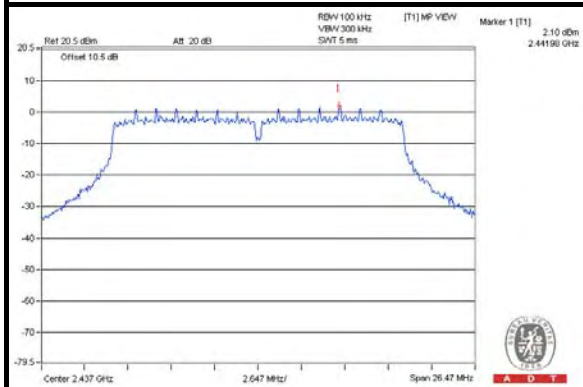
A D T

CHAIN 1

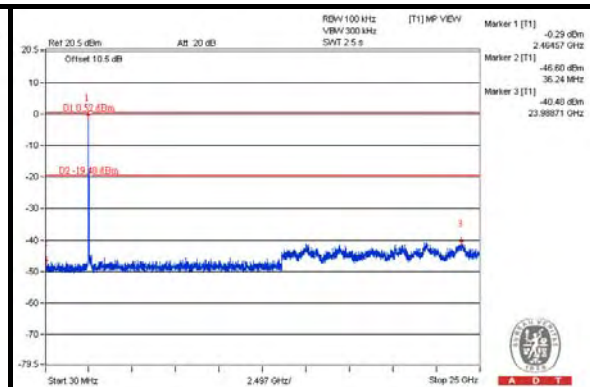
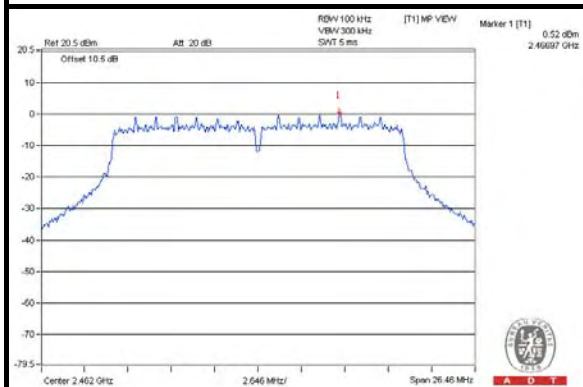
CH 1



CH 6



CH 11

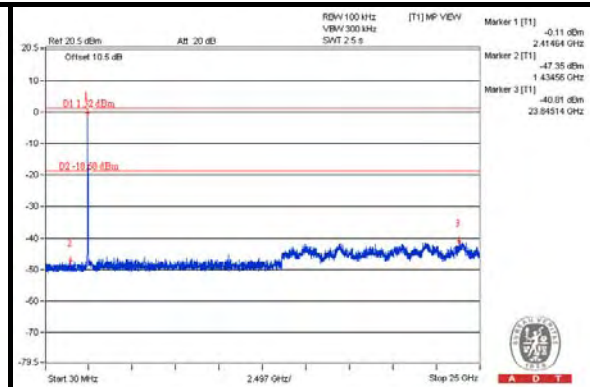
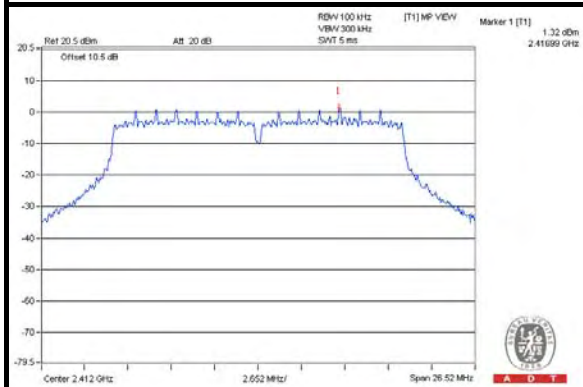




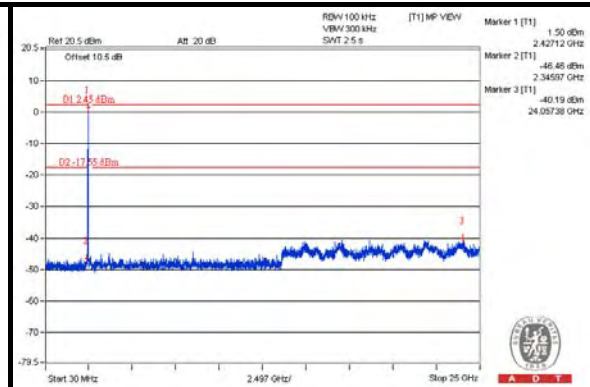
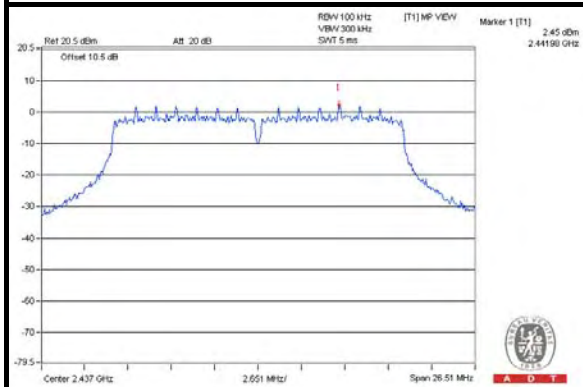
A D T

CHAIN 2

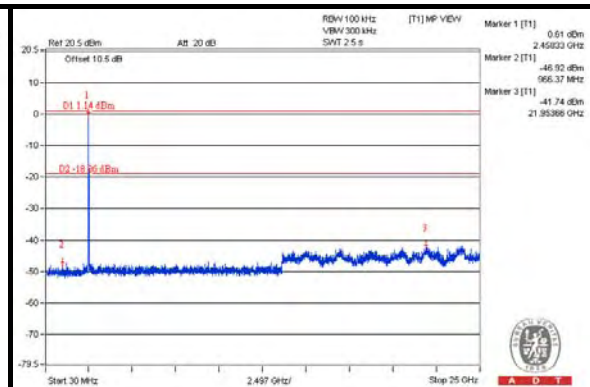
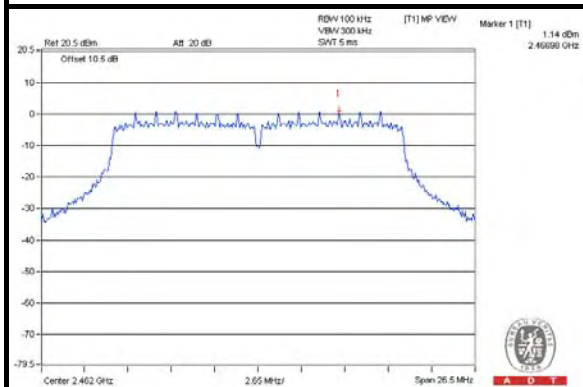
CH 1



CH 6



CH 11



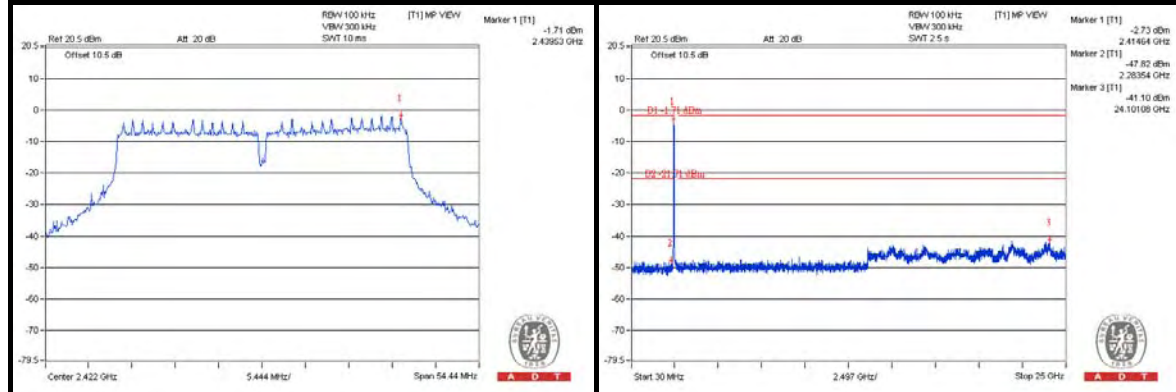


A D T

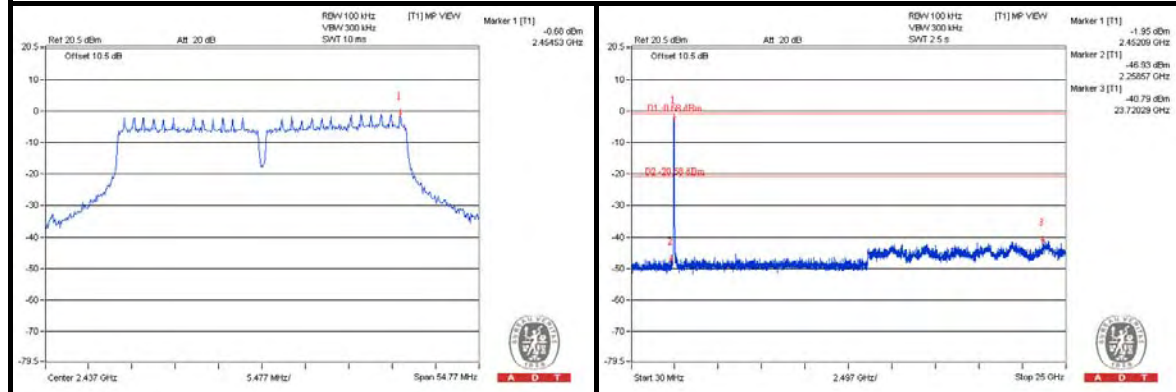
802.11n (40MHz)

CHAIN 0

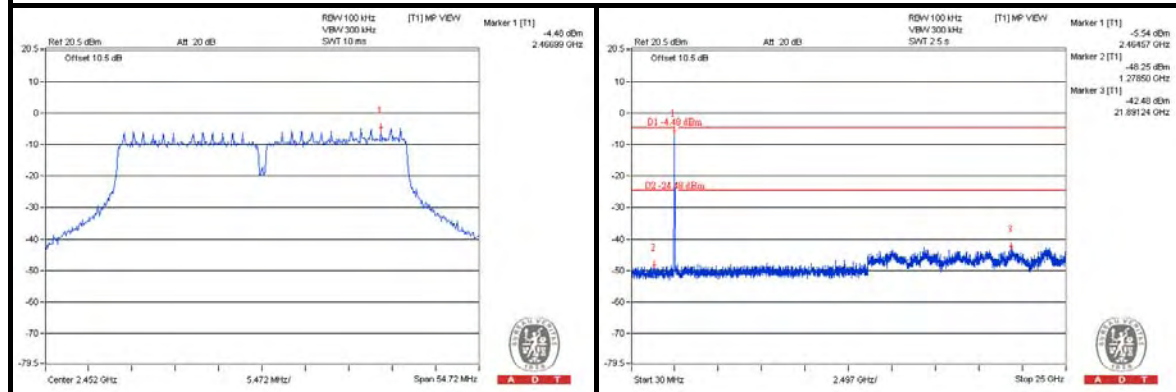
CH 3



CH 6

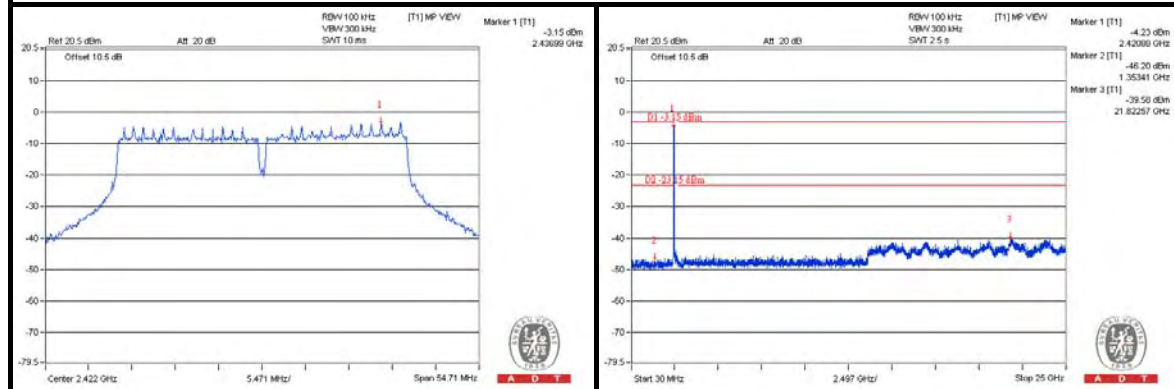


CH 9

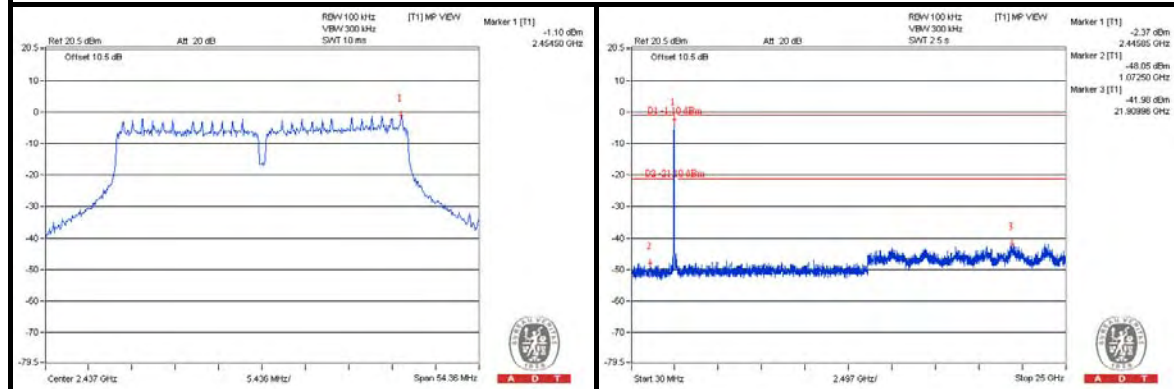


CHAIN 1

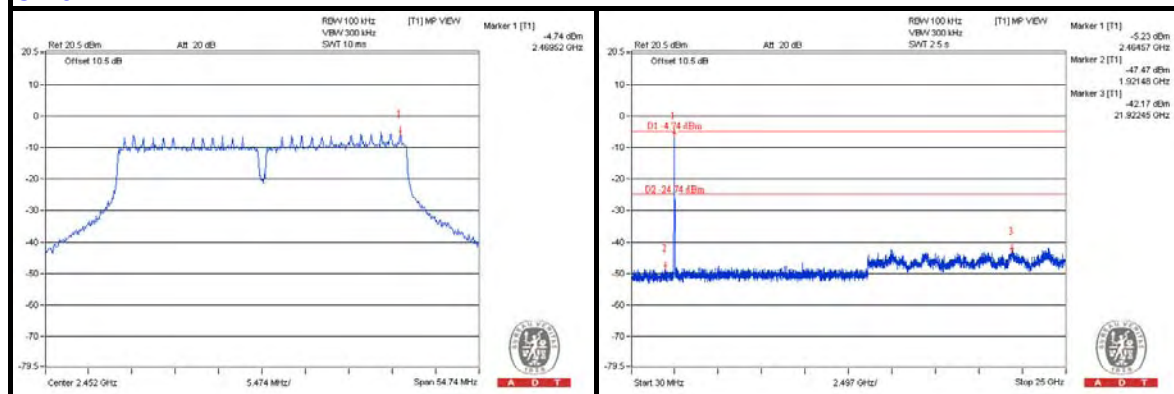
CH 3



CH 6

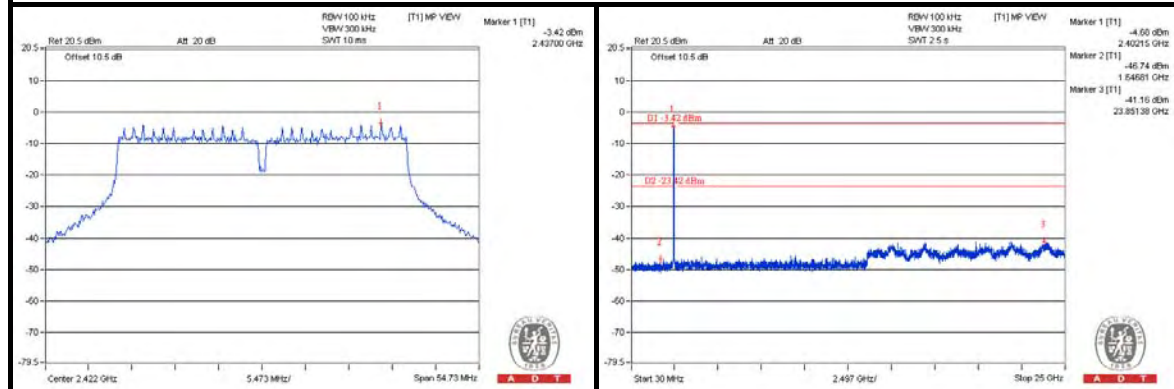


CH 9

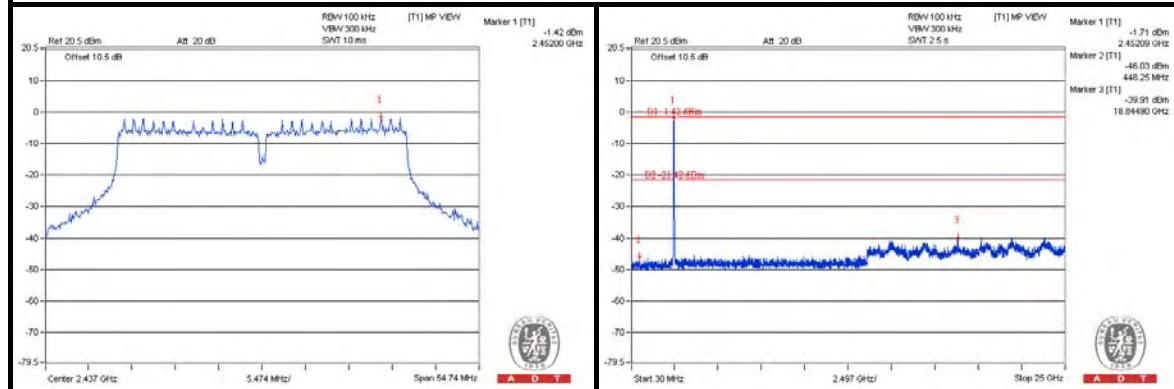


CHAIN 2

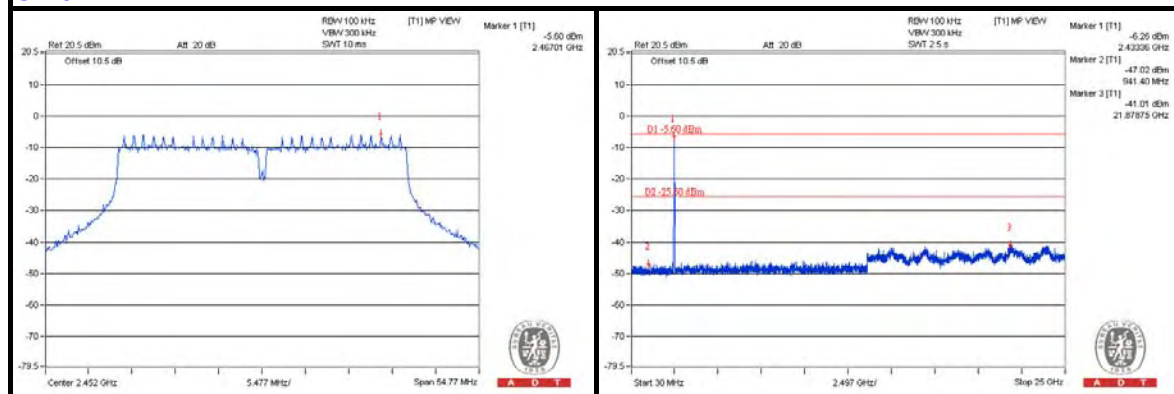
CH 3



CH 6



CH 9





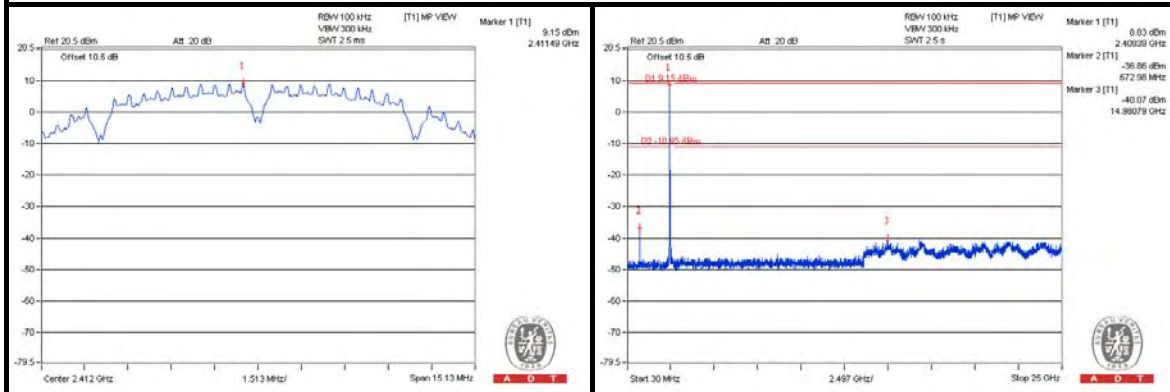
A D T

TEST MODE D

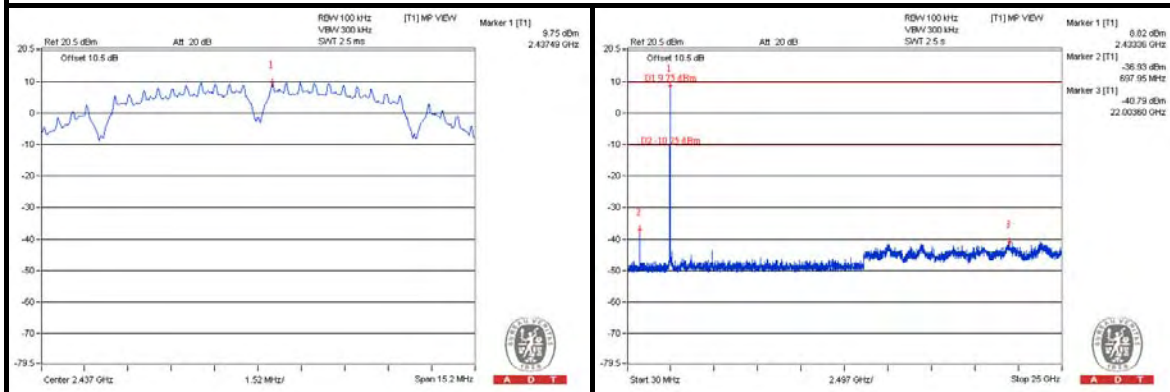
802.11b

CHAIN 0

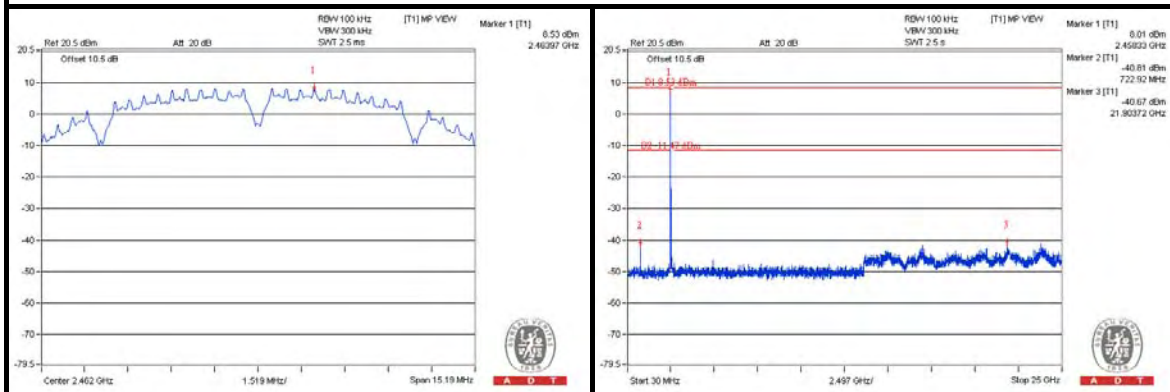
CH 1



CH 6



CH 11

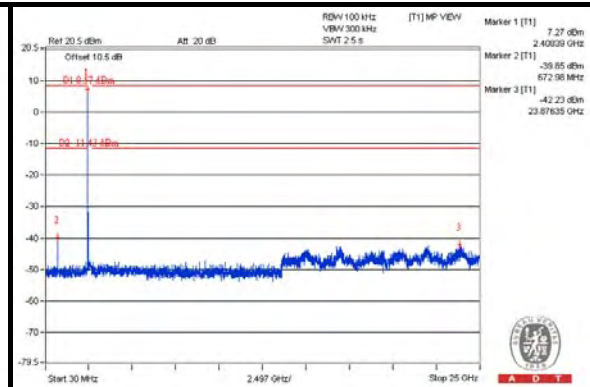
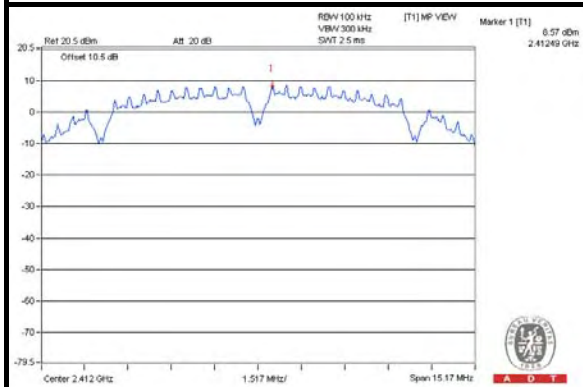




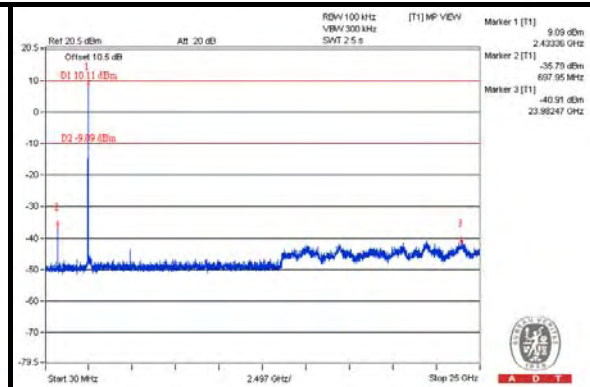
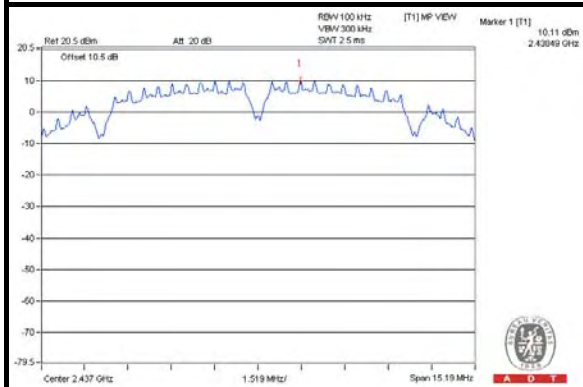
A D T

CHAIN 1

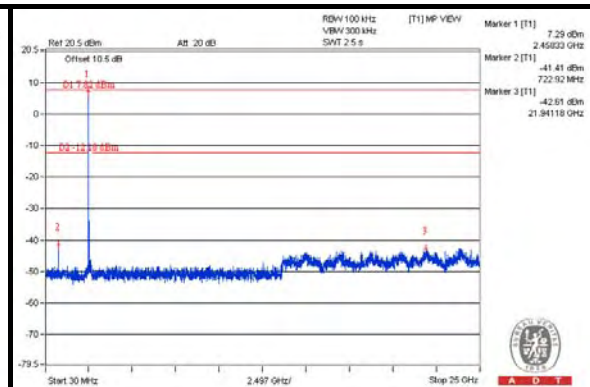
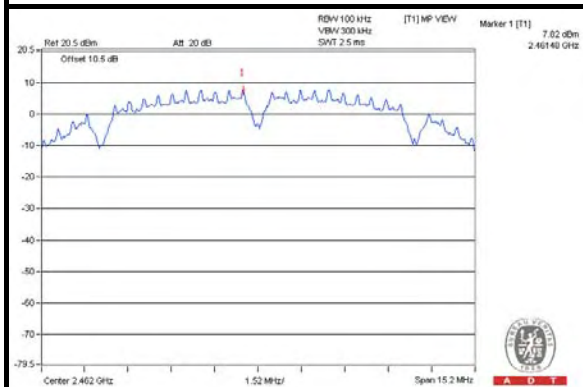
CH 1



CH 6



CH 11

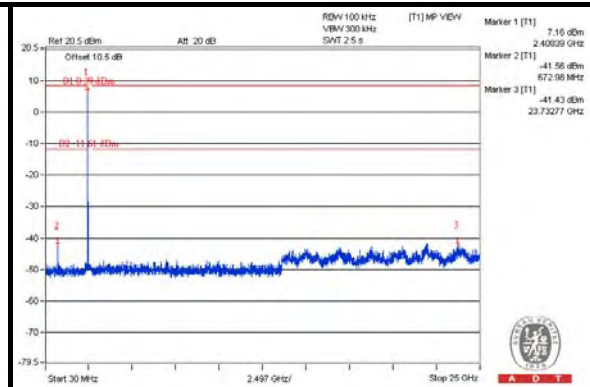
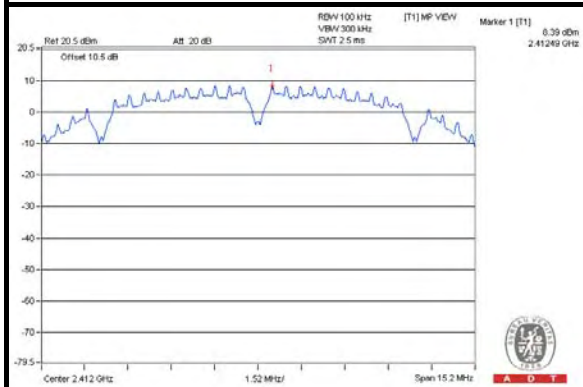




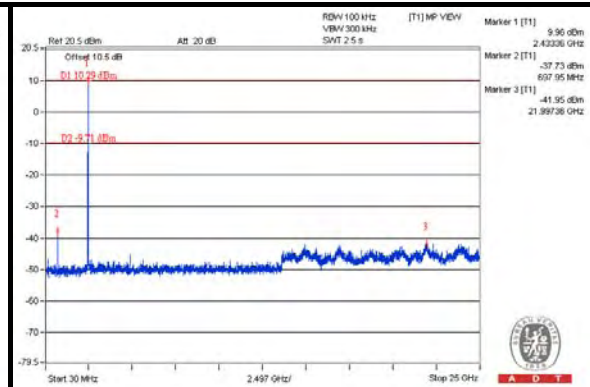
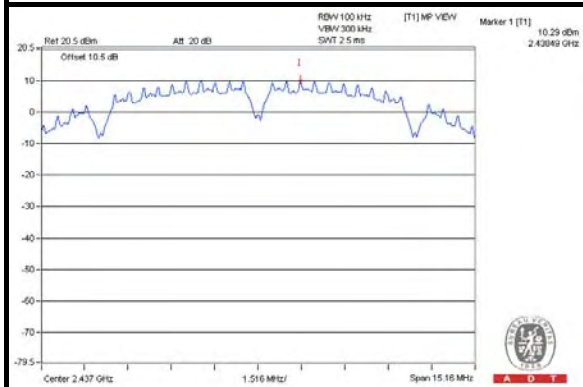
A D T

CHAIN 2

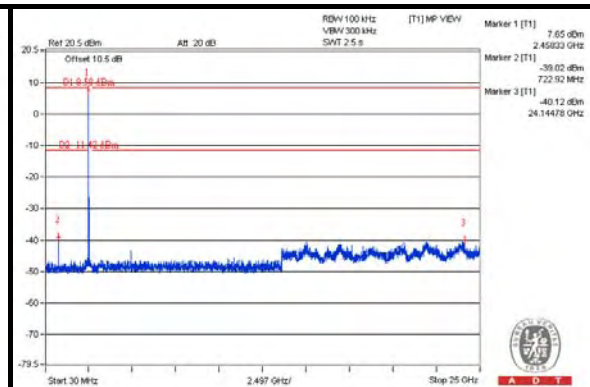
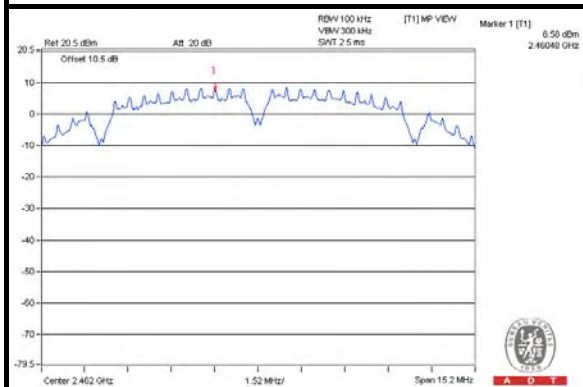
CH 1



CH 6



CH 11

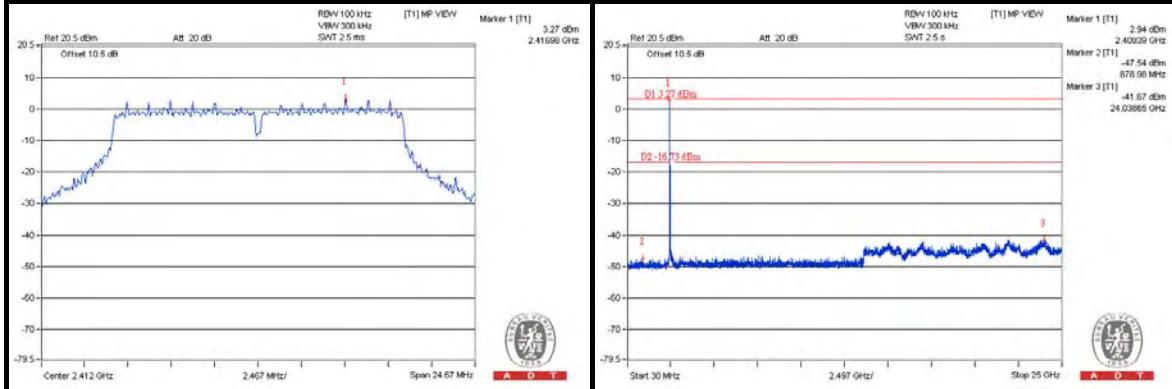




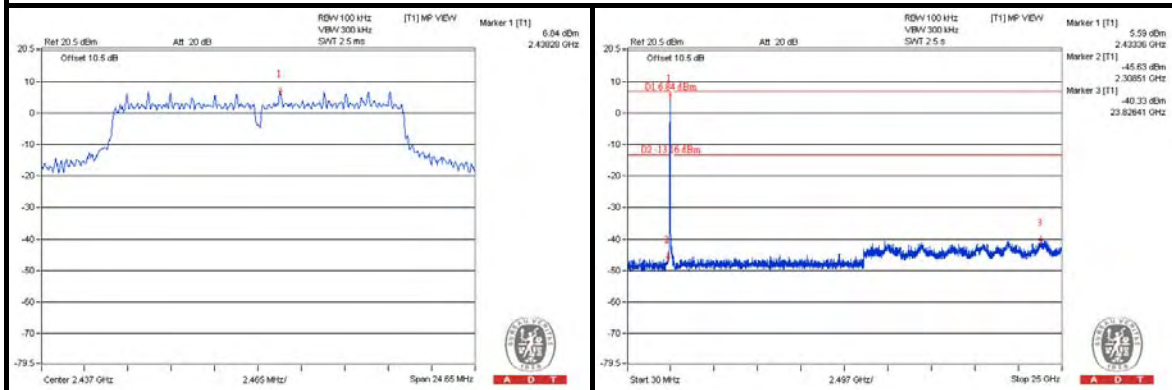
A D T

802.11g
CHAIN 0

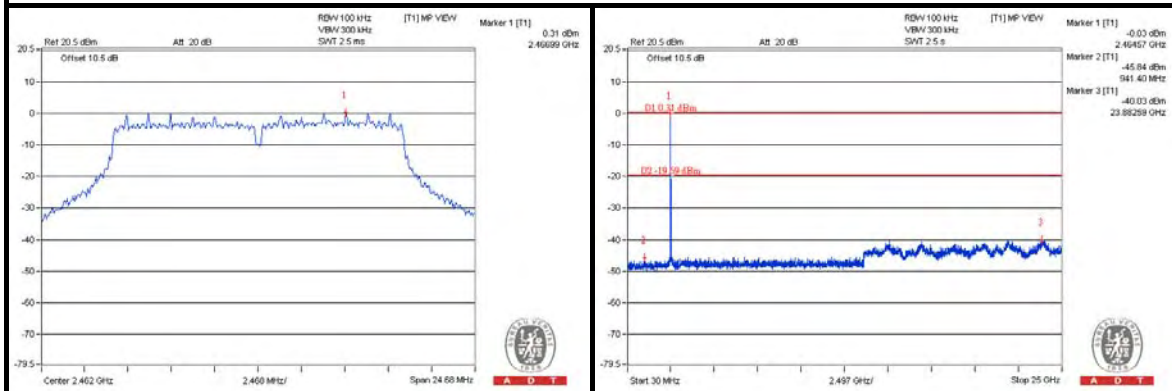
CH 1



CH 6



CH 11

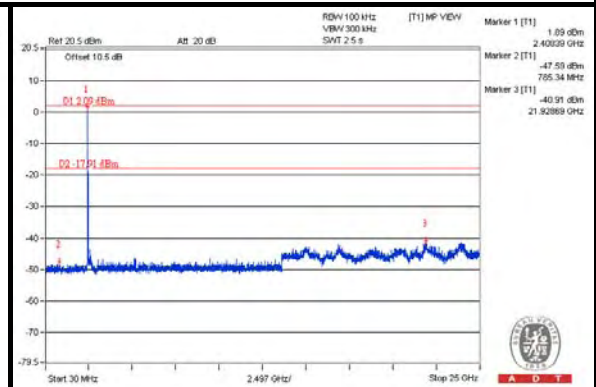
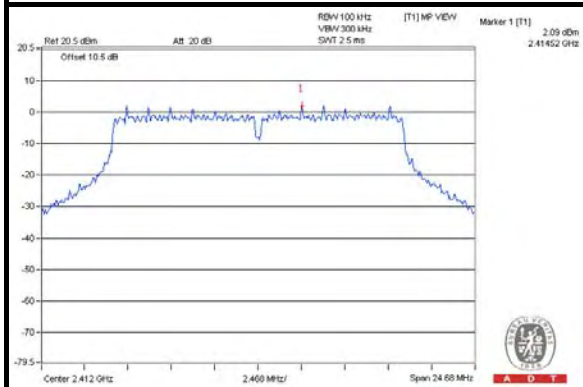




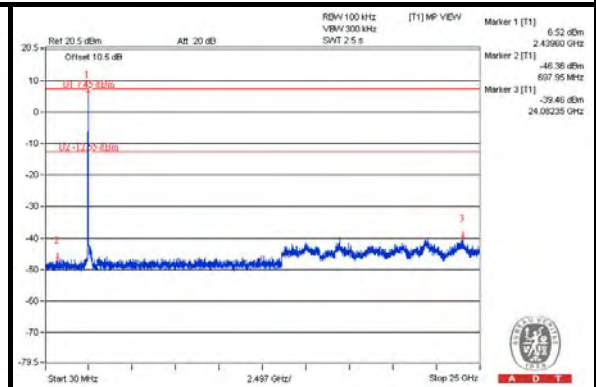
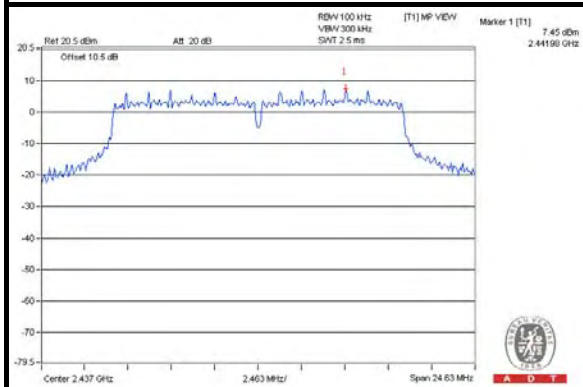
A D T

CHAIN 1

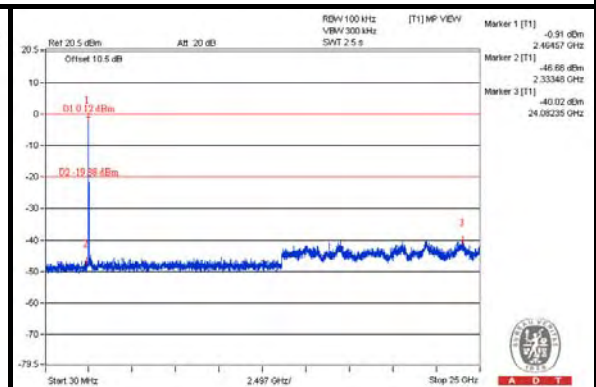
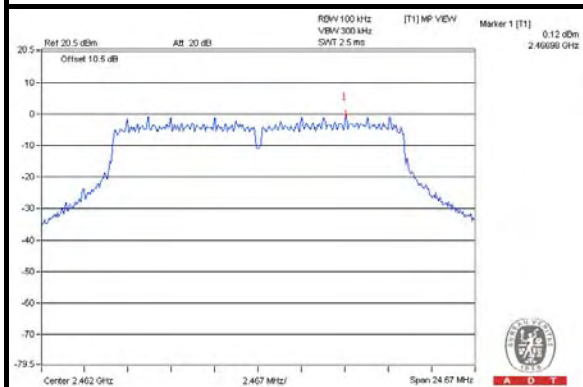
CH 1



CH 6



CH 11

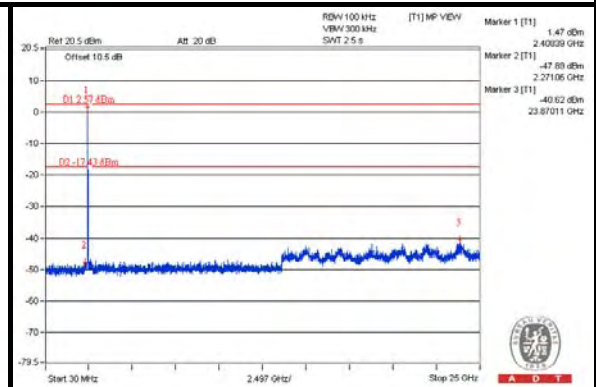
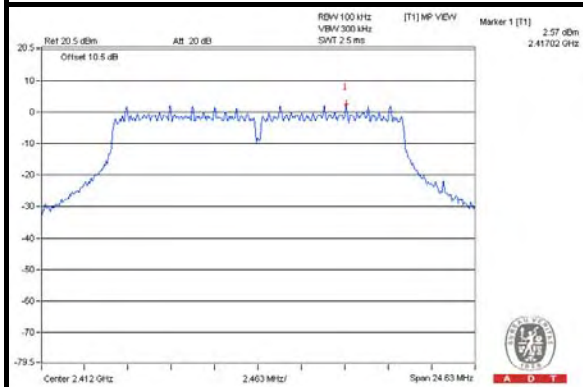




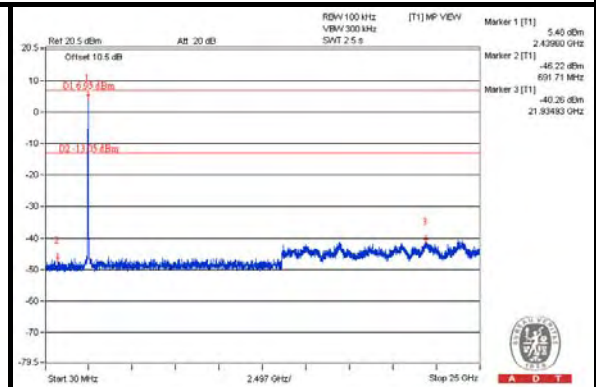
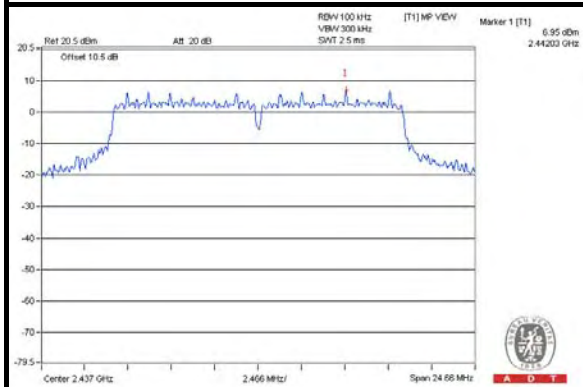
A D T

CHAIN 2

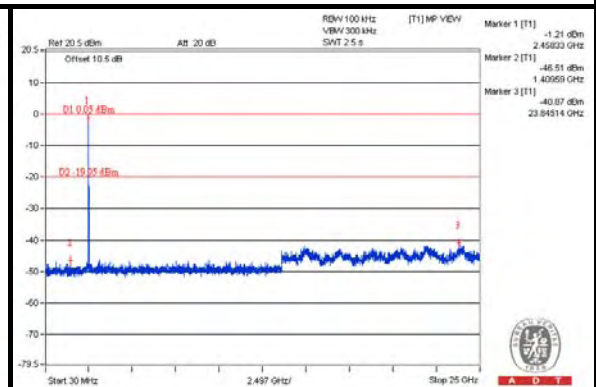
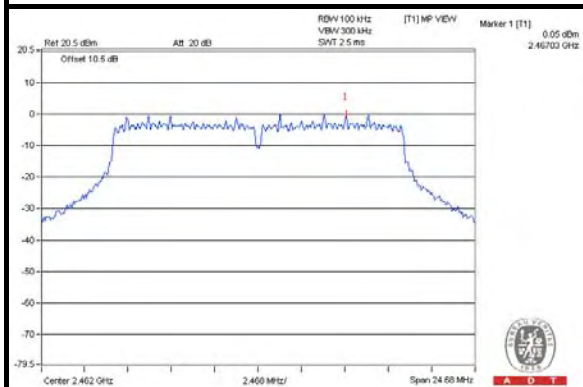
CH 1



CH 6



CH 11



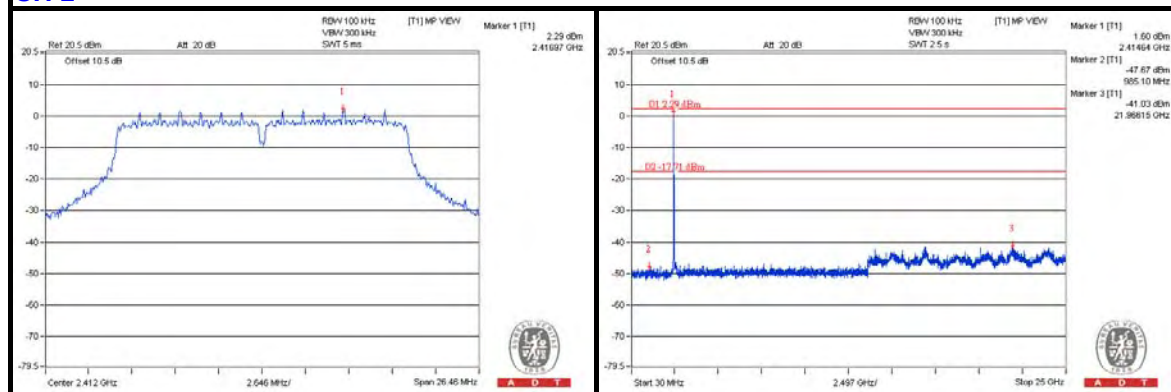


A D T

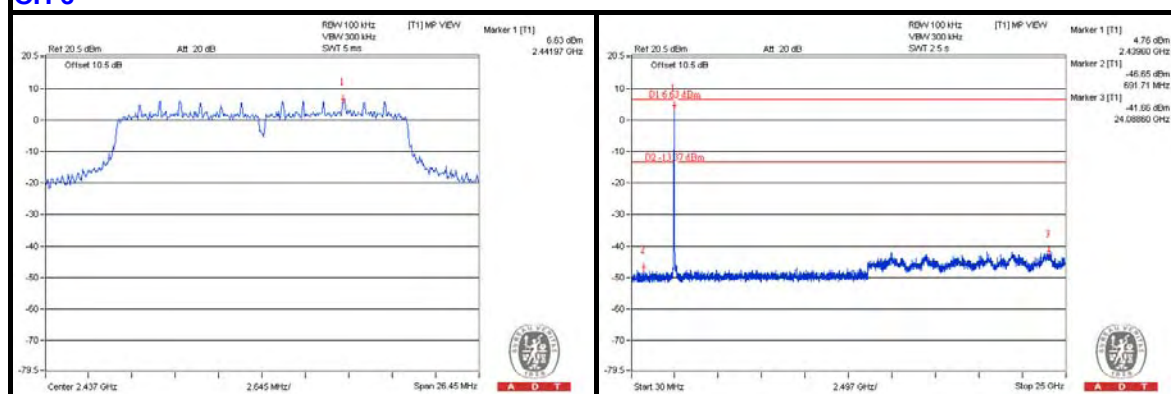
802.11n (20MHz)

CHAIN 0

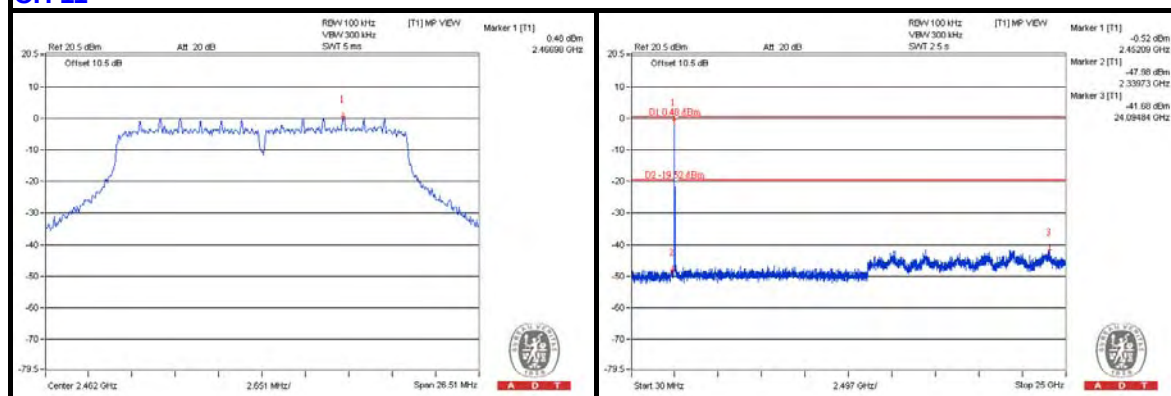
CH 1



CH 6



CH 11

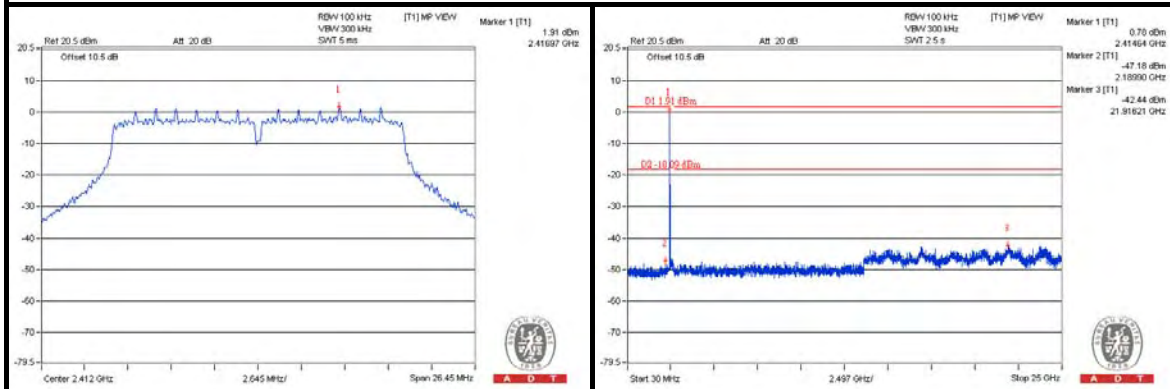




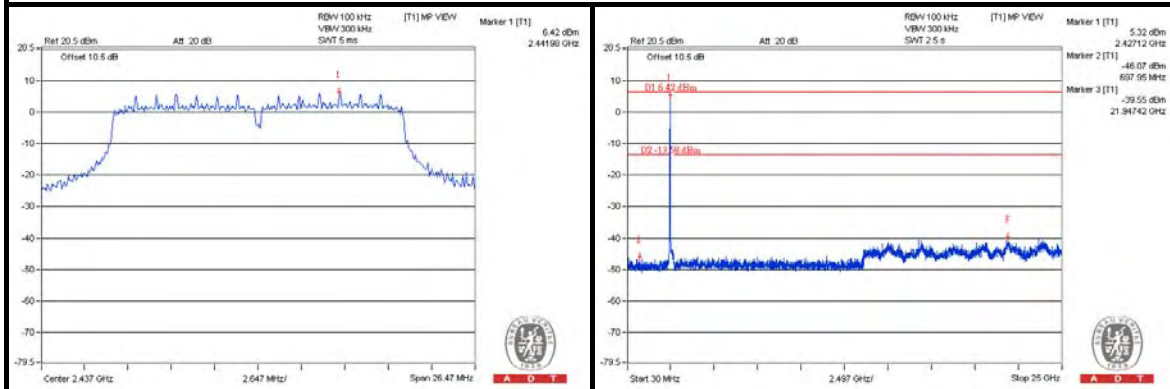
A D T

CHAIN 1

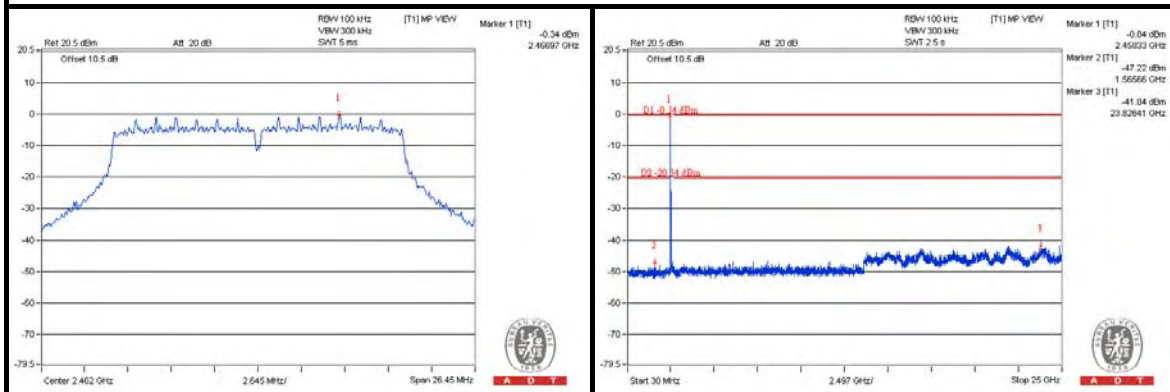
CH 1



CH 6



CH 11

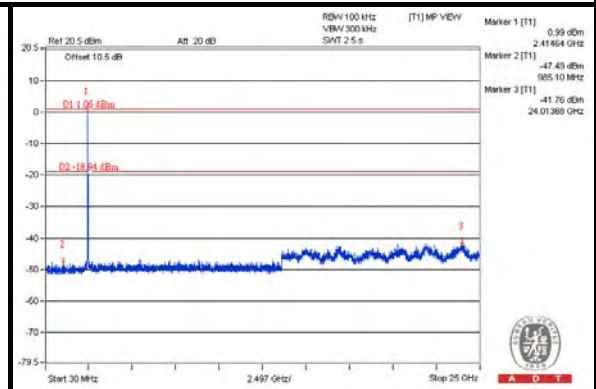
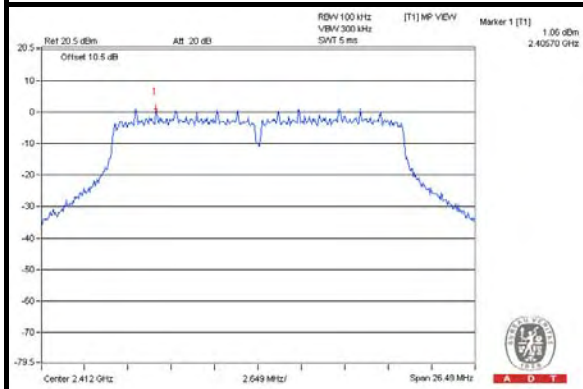




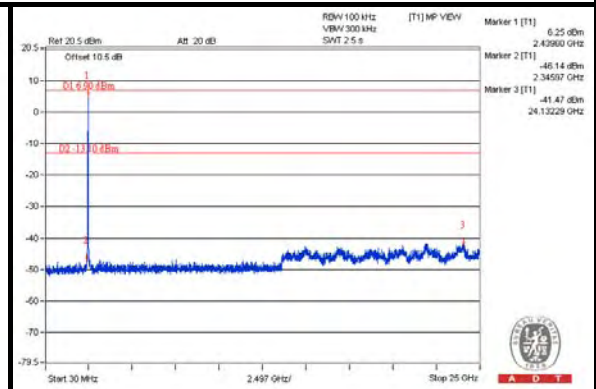
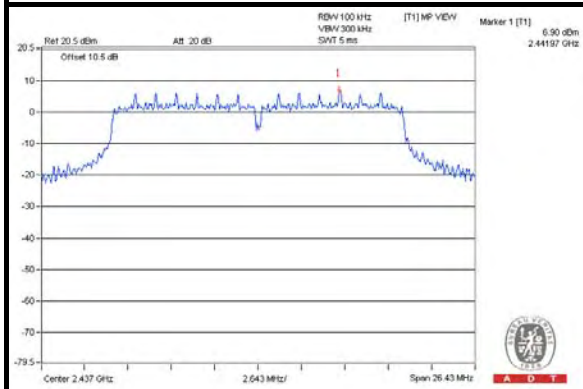
A D T

CHAIN 2

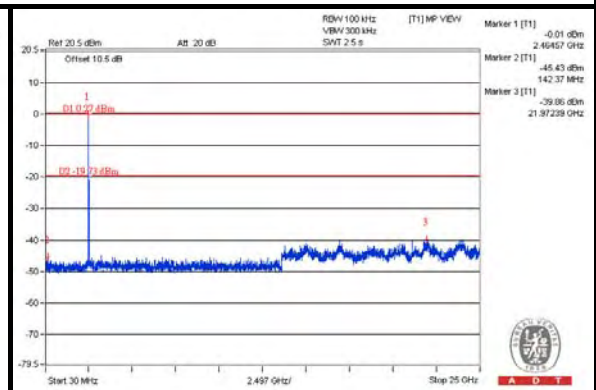
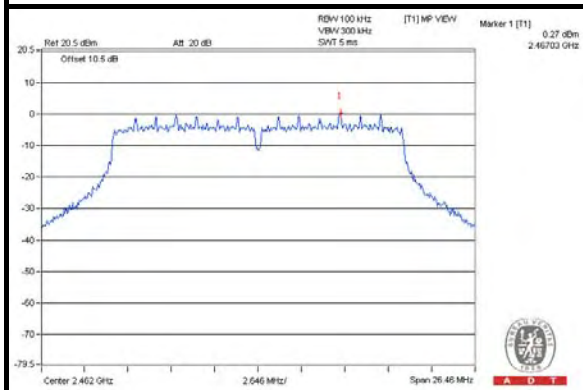
CH 1



CH 6



CH 11



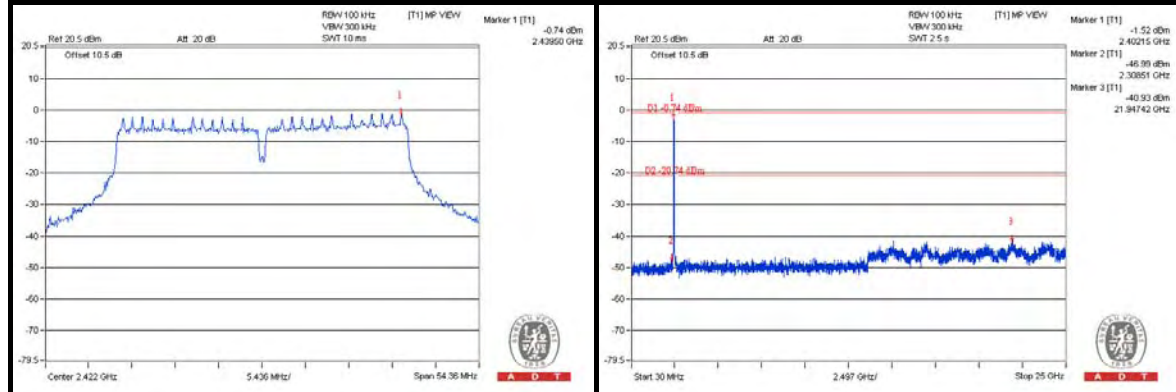


A D T

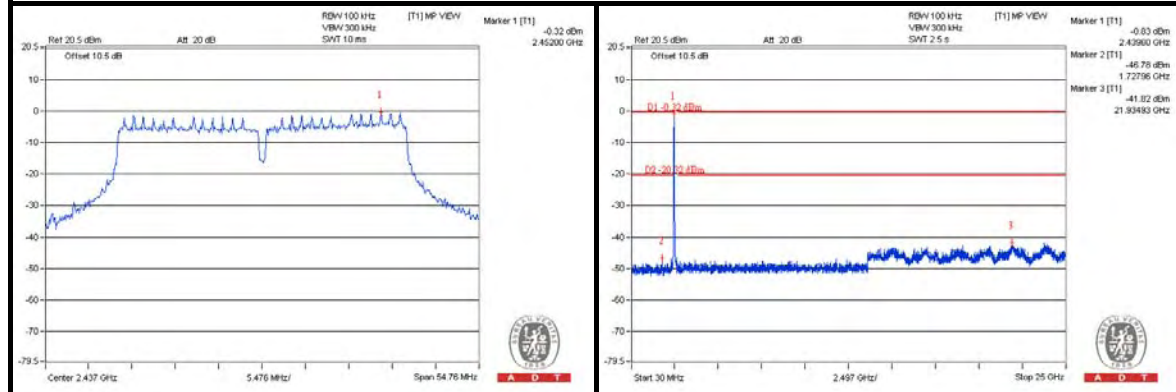
802.11n (40MHz)

CHAIN 0

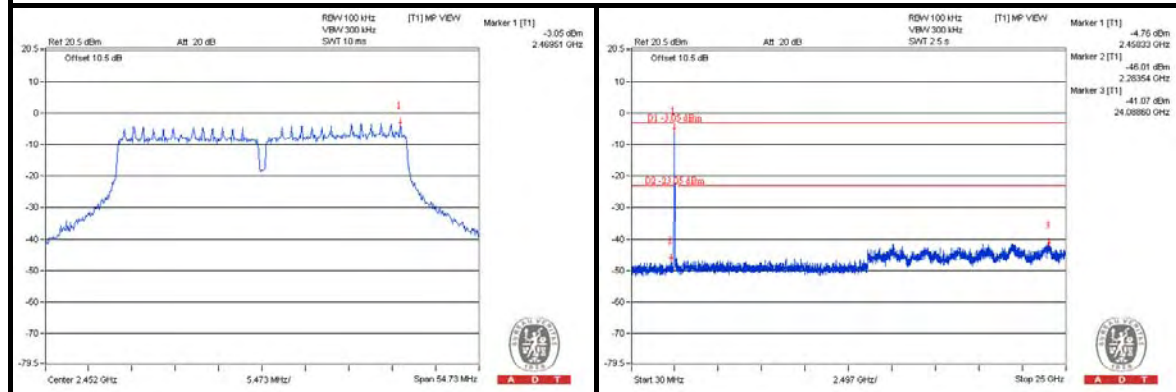
CH 3



CH 6



CH 9

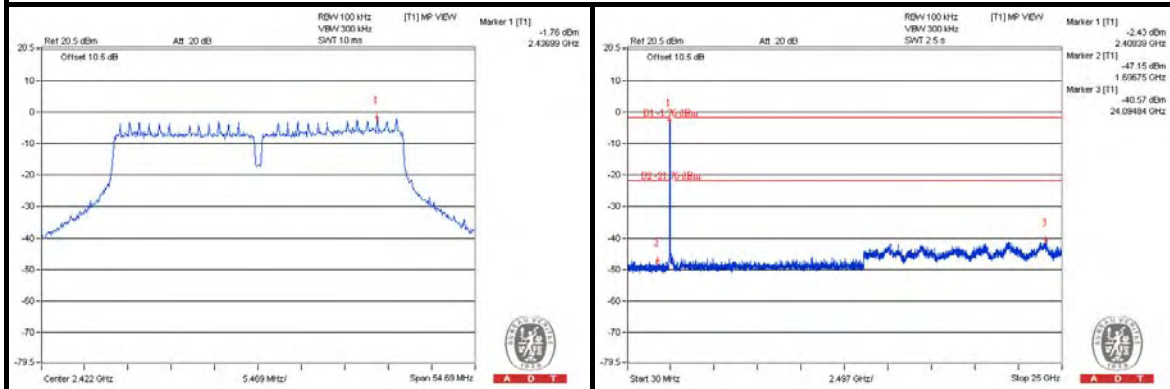




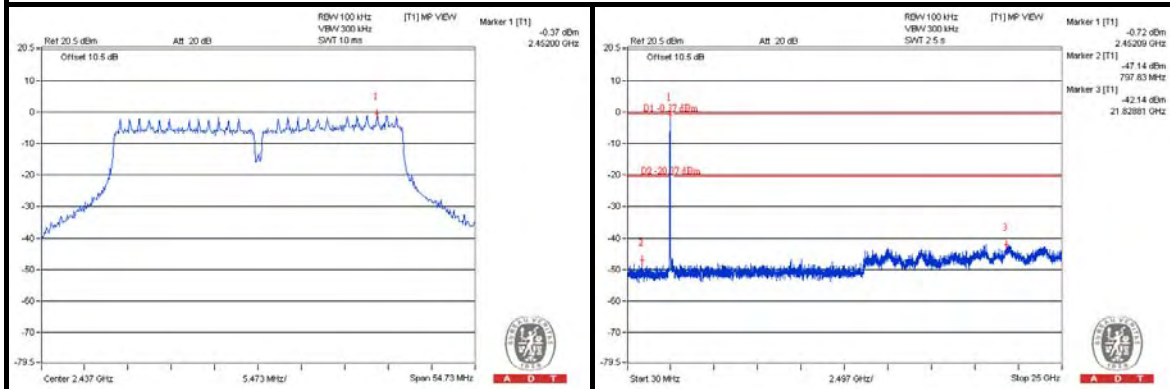
A D T

CHAIN 1

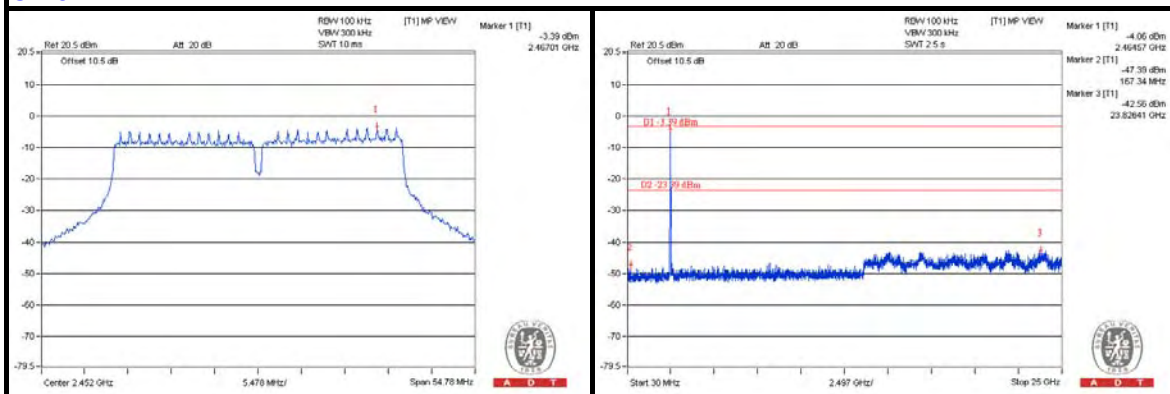
CH 3



CH 6

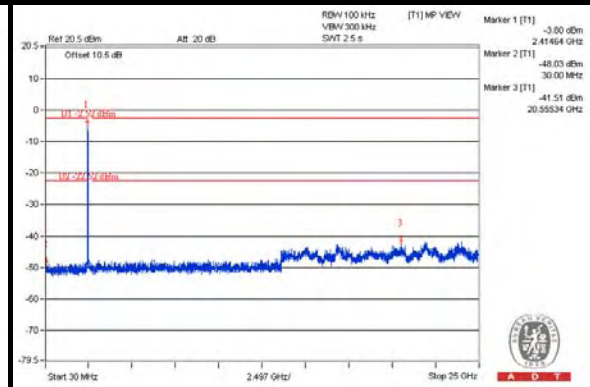
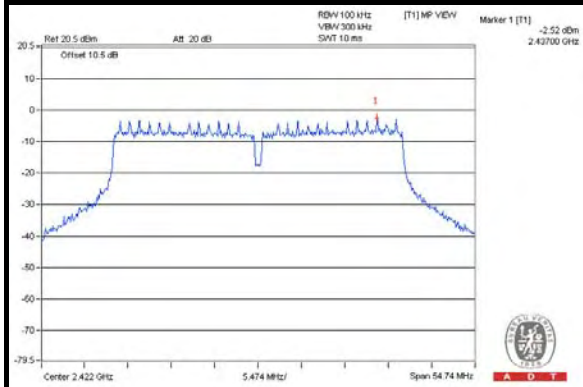


CH 9

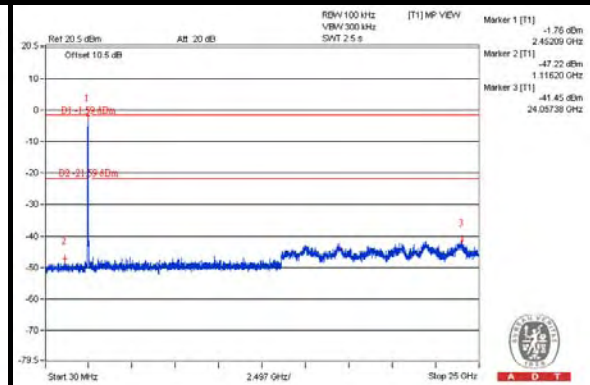
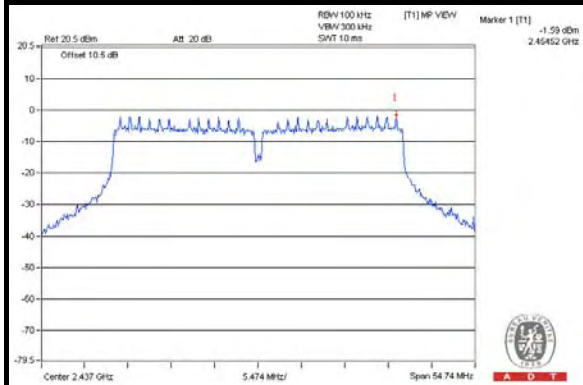


CHAIN 2

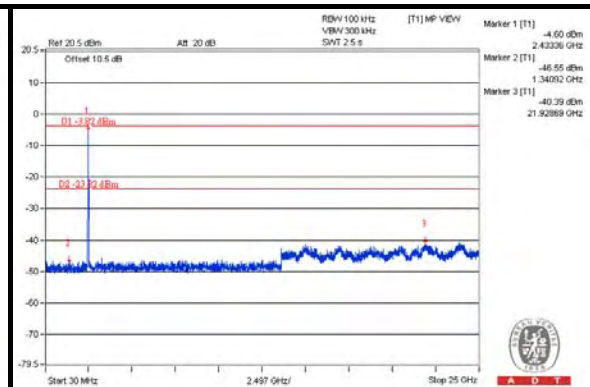
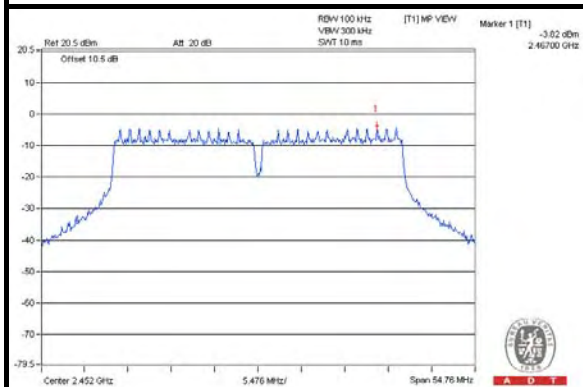
CH 3



CH 6



CH 9





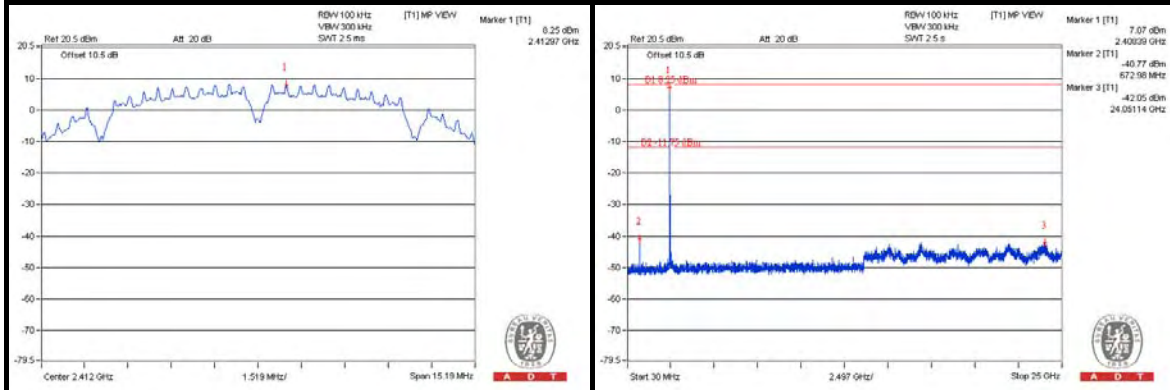
A D T

TEST MODE E

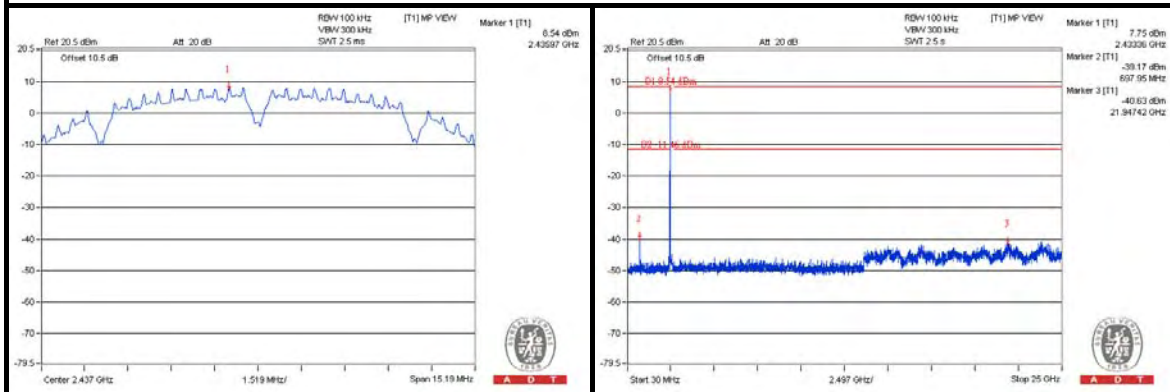
802.11b

CHAIN 0

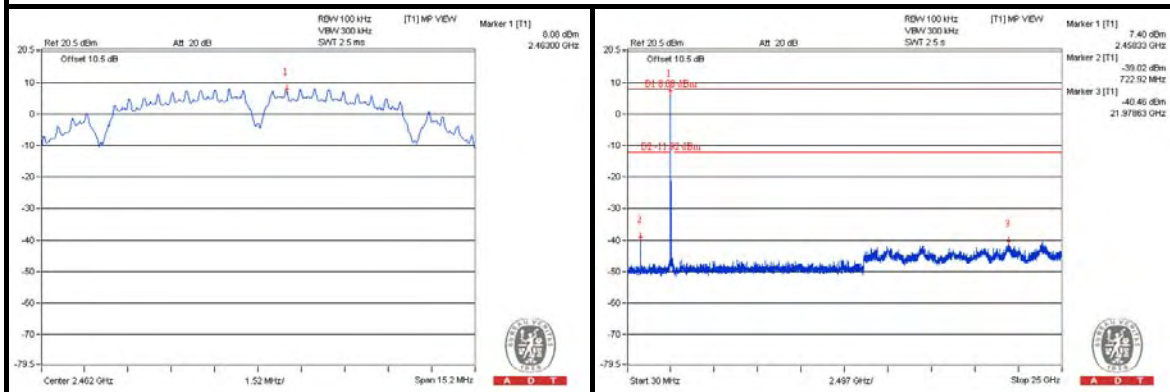
CH 1



CH 6



CH 11

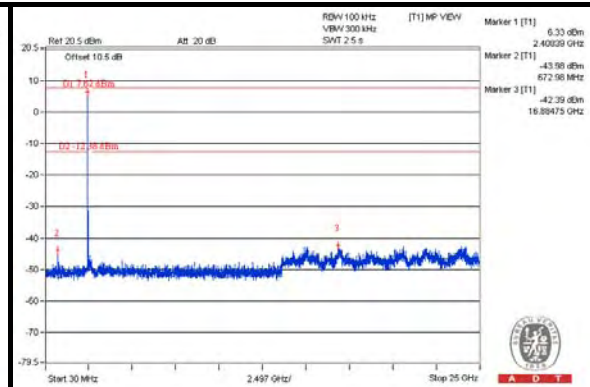
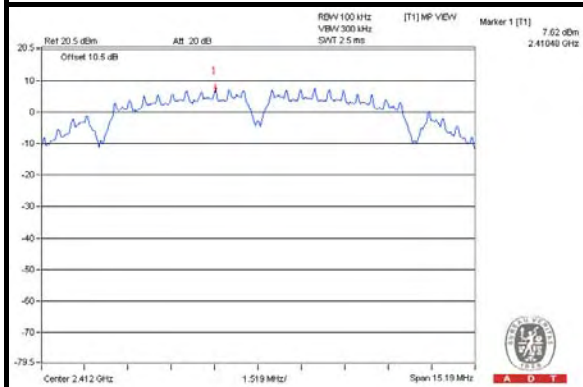




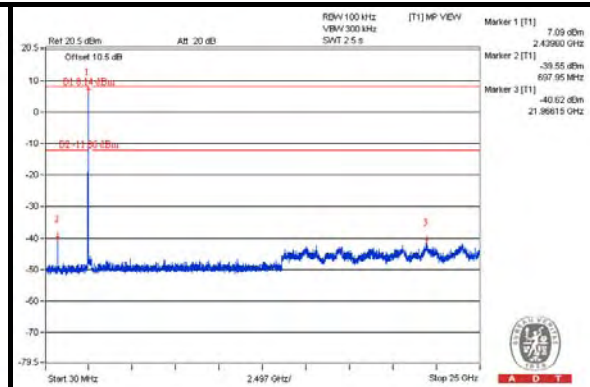
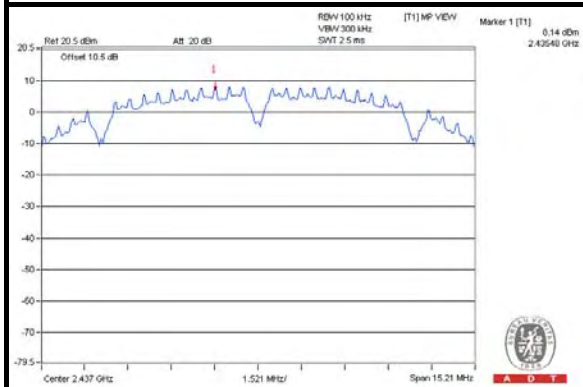
A D T

CHAIN 1

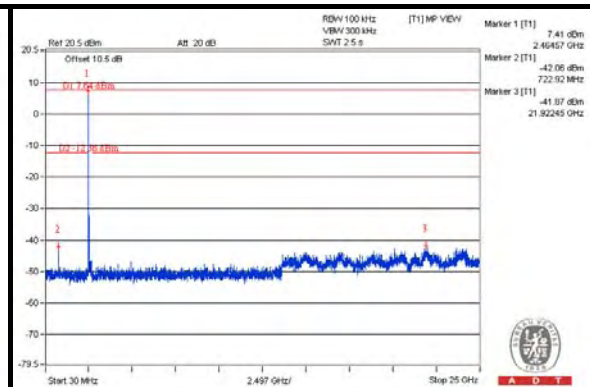
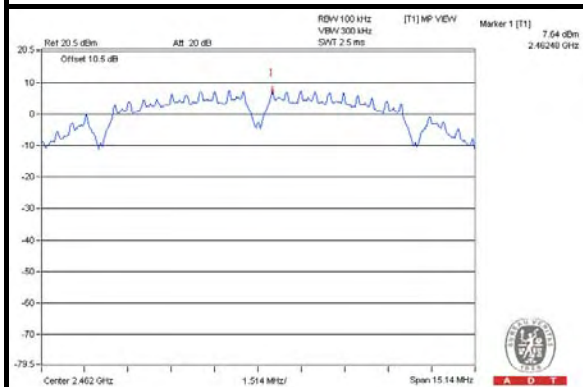
CH 1



CH 6

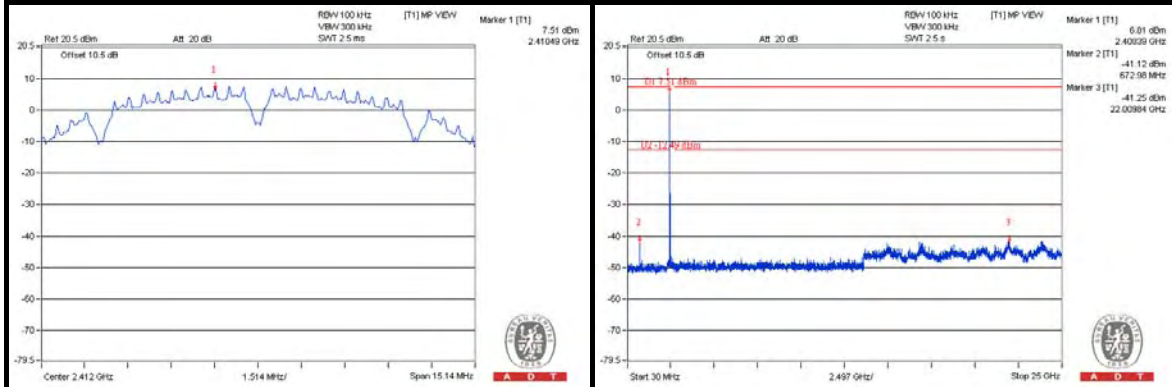


CH 11

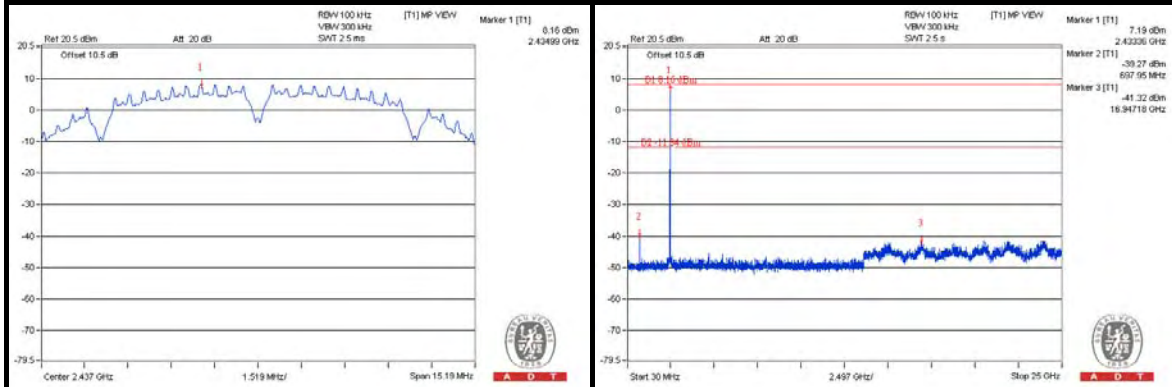


CHAIN 2

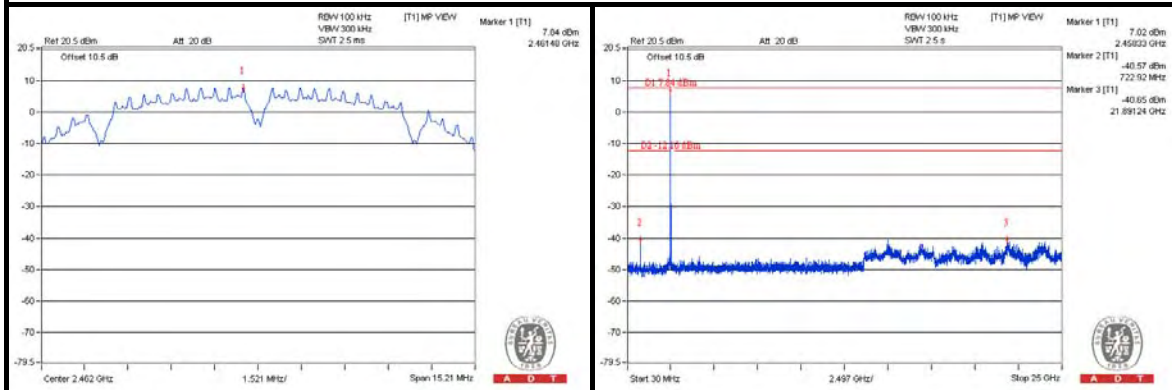
CH 1



CH 6



CH 11

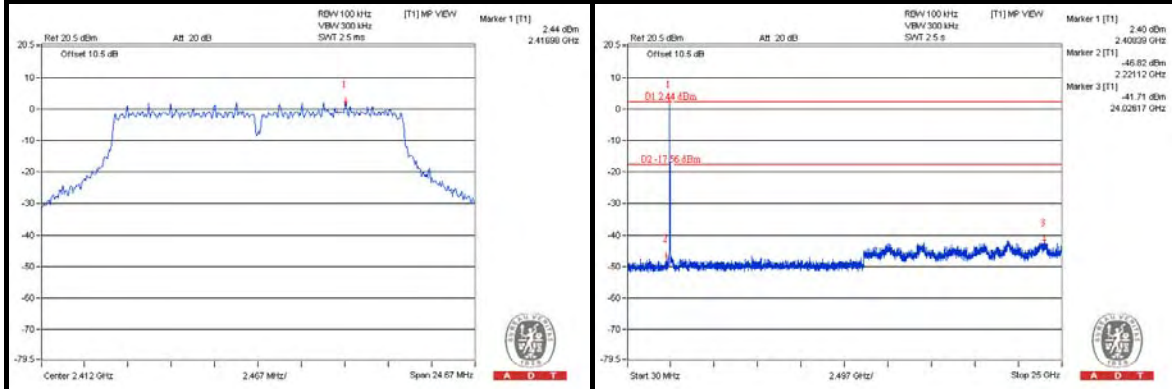




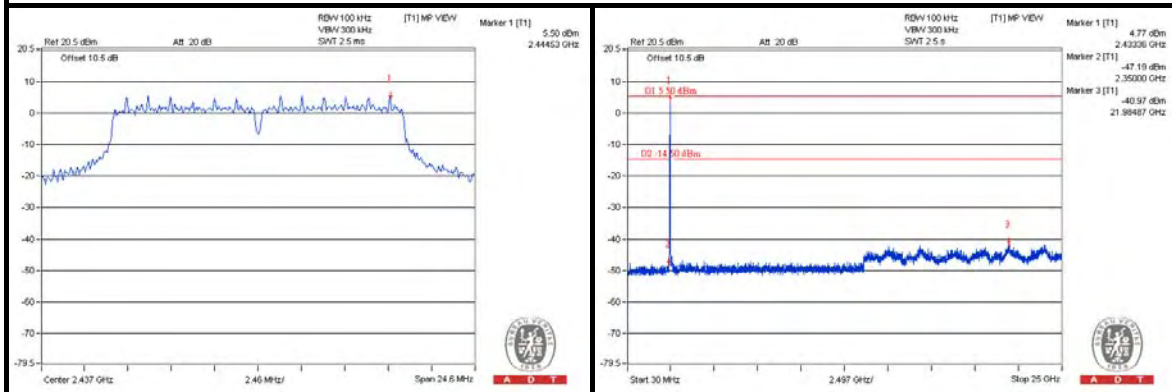
A D T

802.11g CHAIN 0

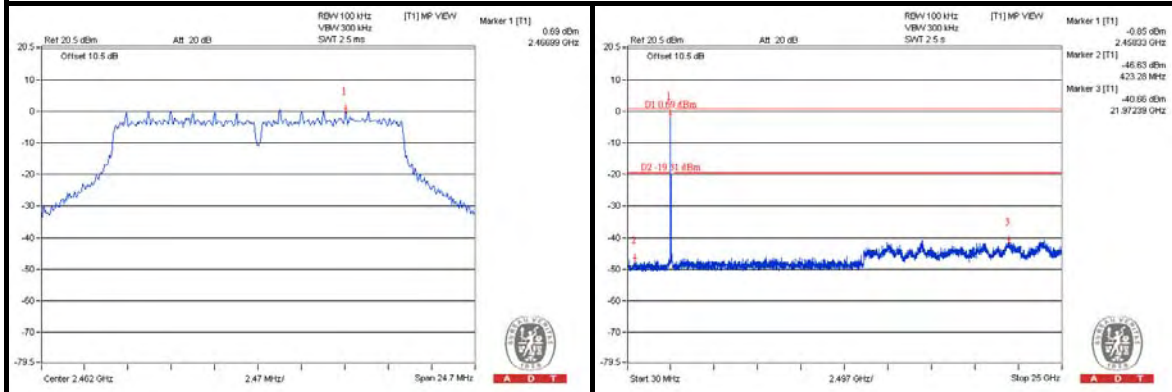
CH 1



CH 6



CH 11

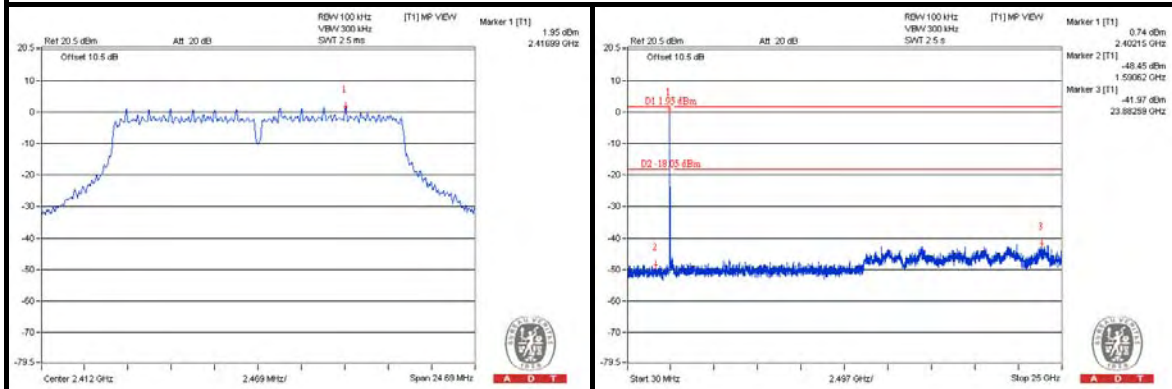




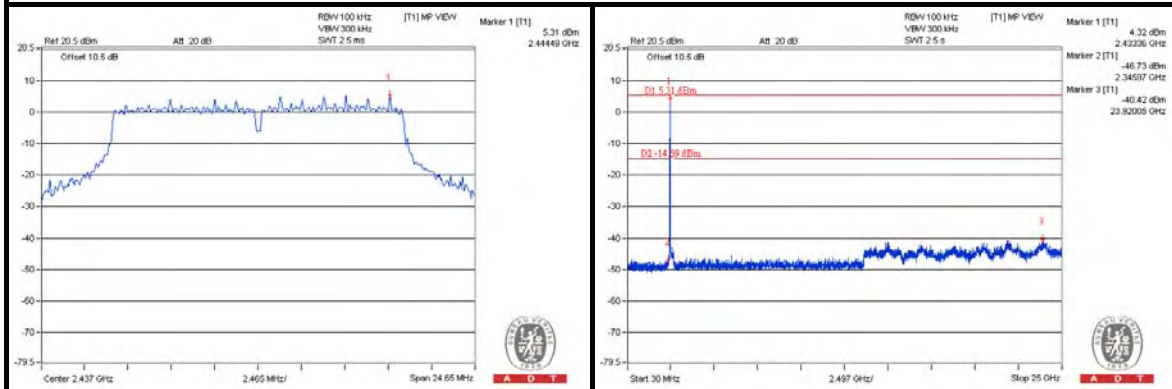
A D T

CHAIN 1

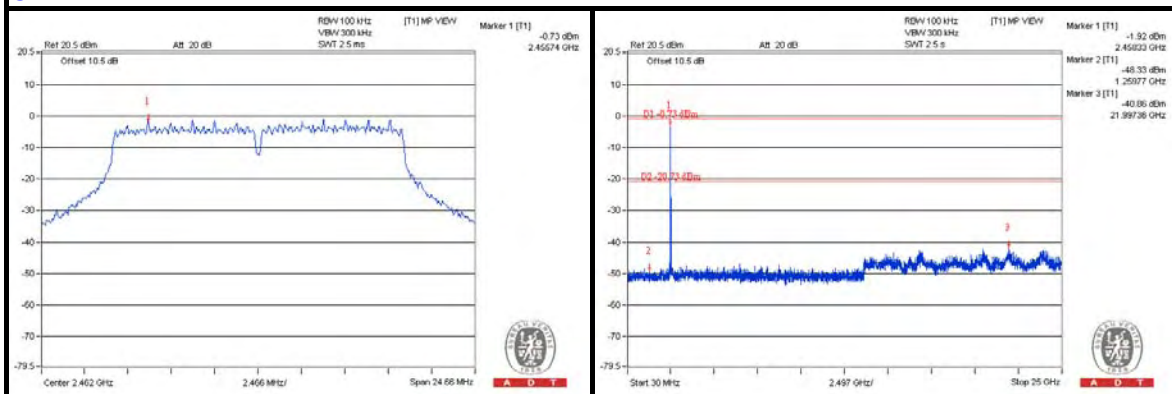
CH 1



CH 6

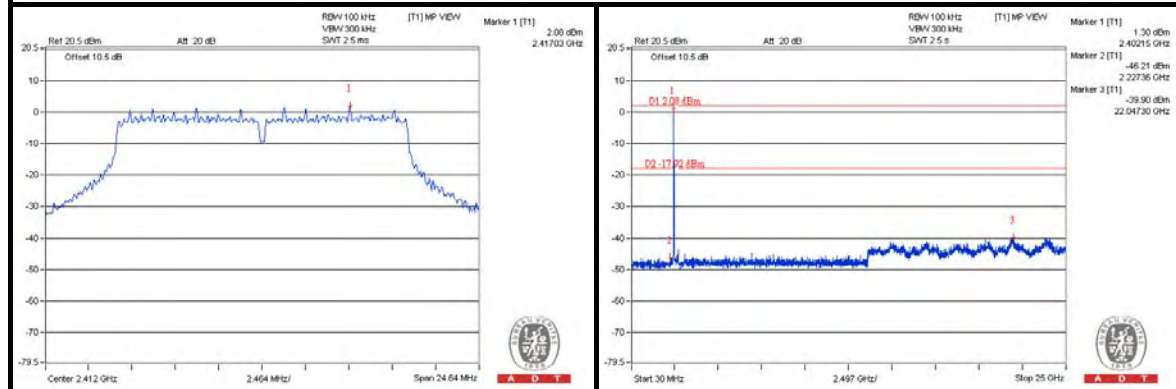


CH 11

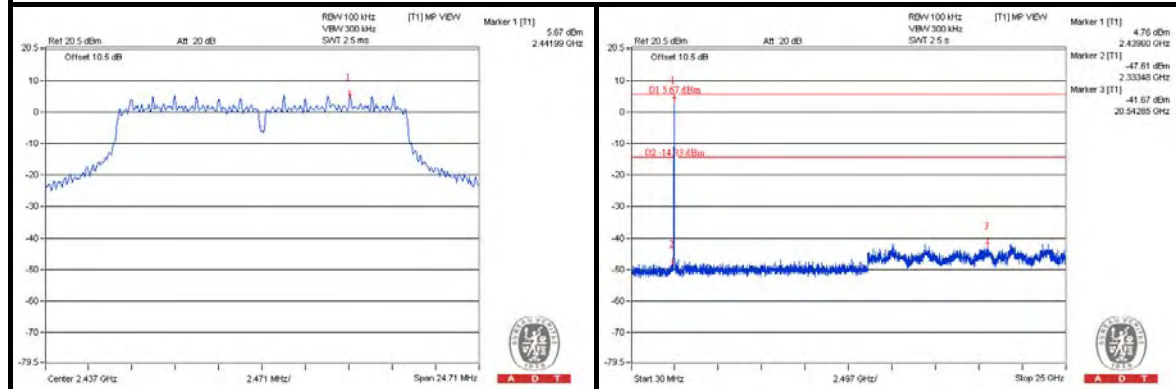


CHAIN 2

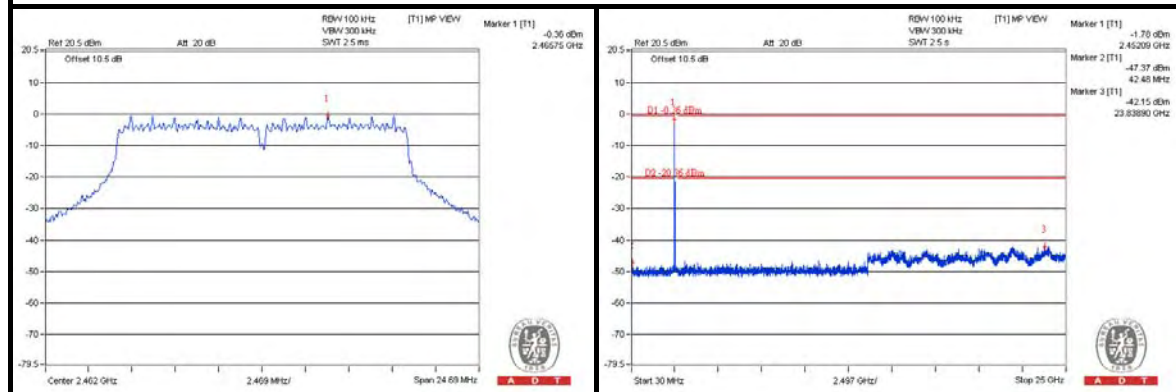
CH 1



CH 6



CH 11

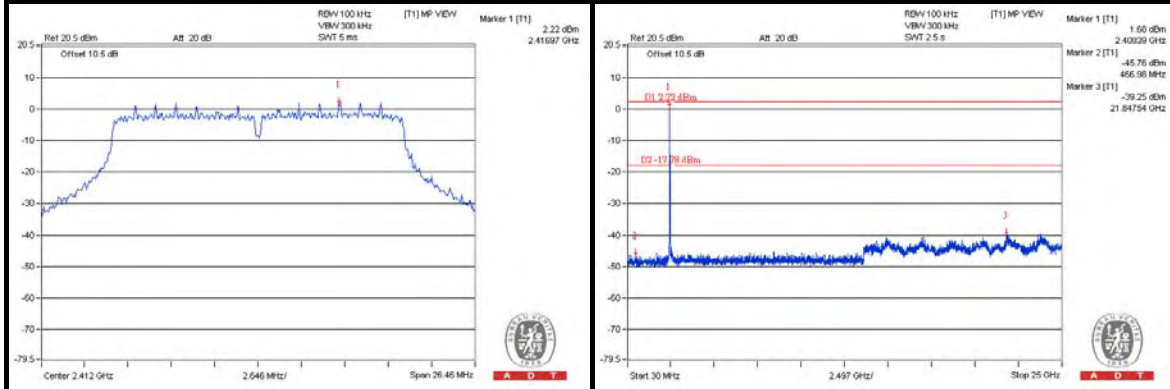




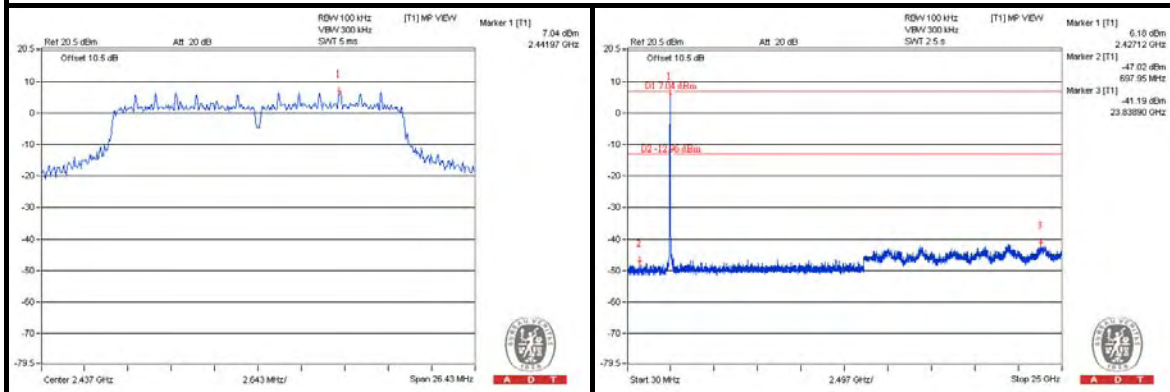
A D T

802.11n (20MHz) CHAIN 0

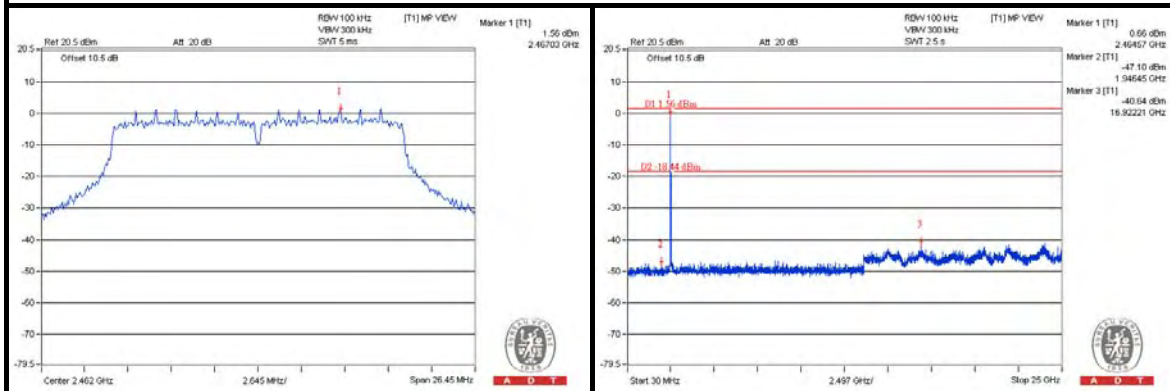
CH 1



CH 6



CH 11

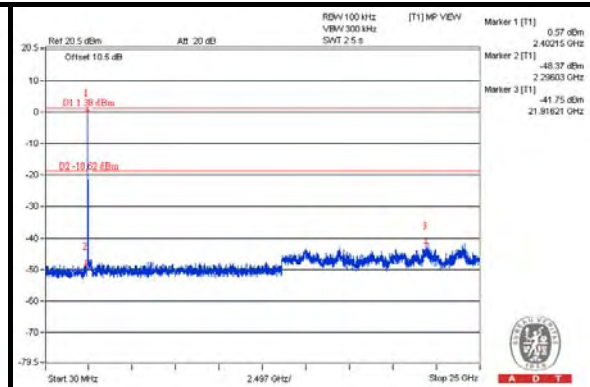
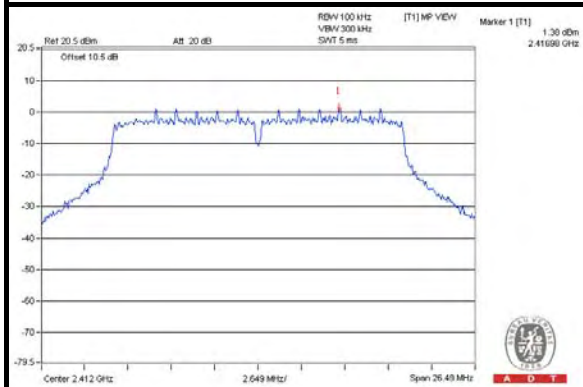




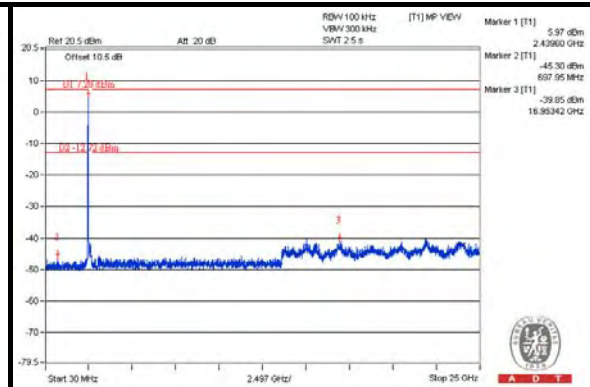
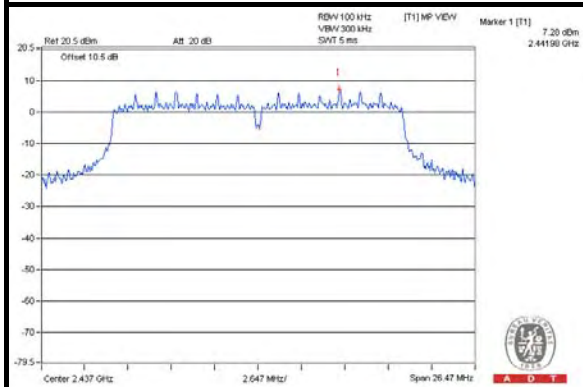
A D T

CHAIN 1

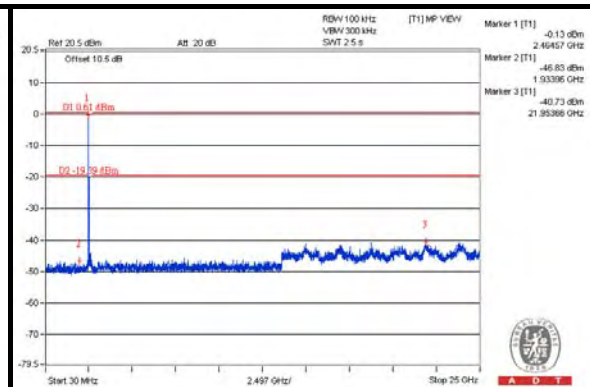
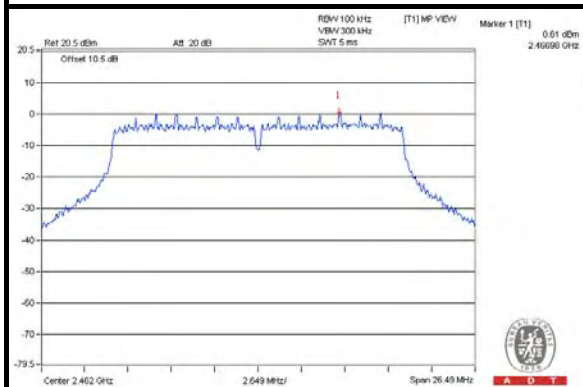
CH 1



CH 6

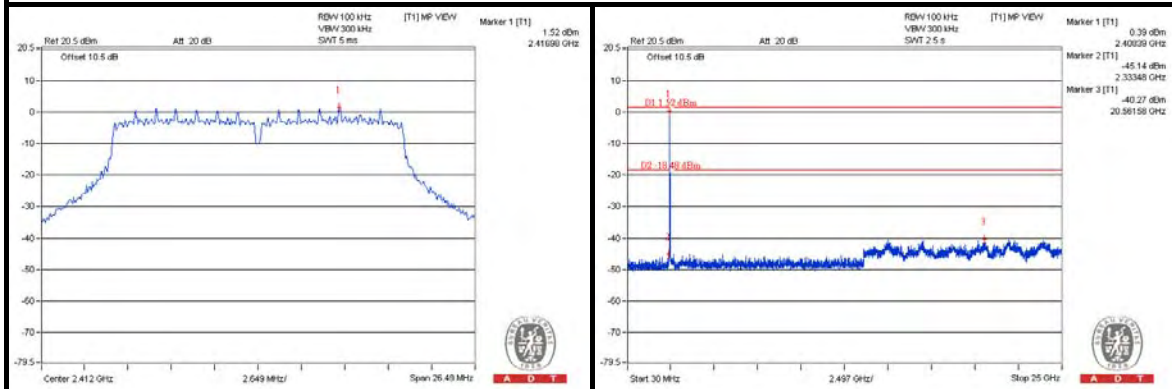


CH 11

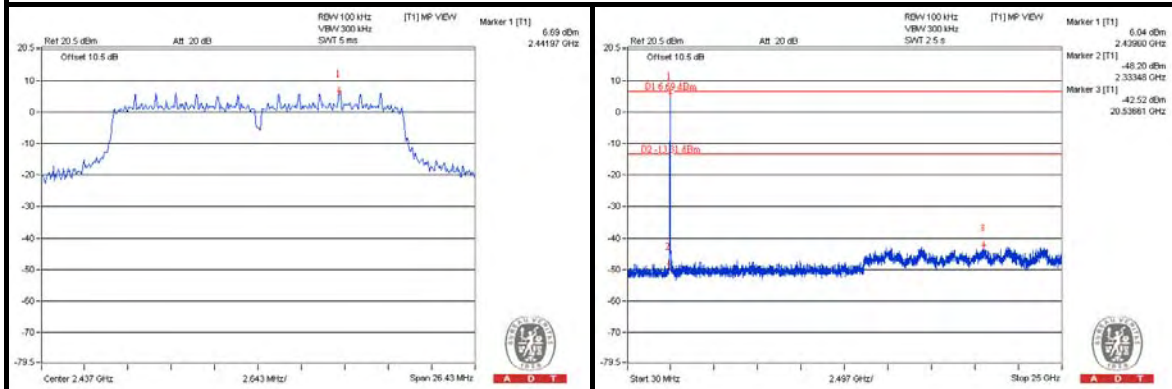


CHAIN 2

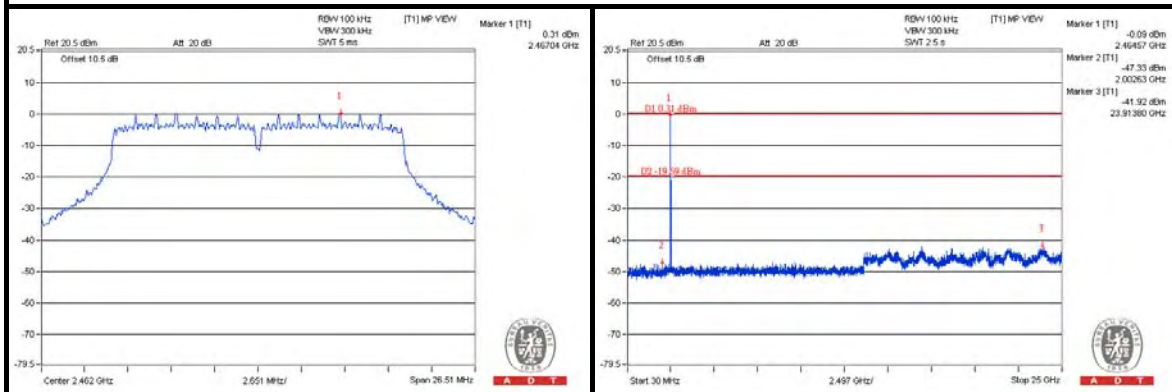
CH 1



CH 6



CH 11



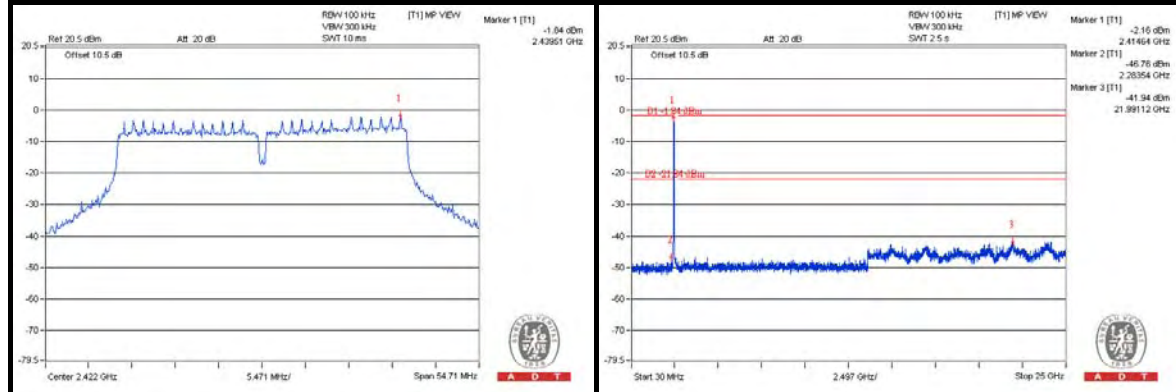


A D T

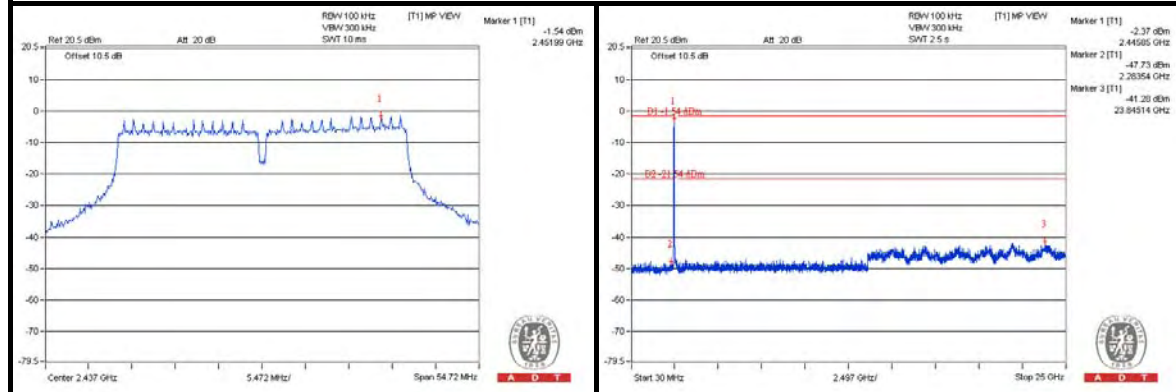
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CHAIN 0

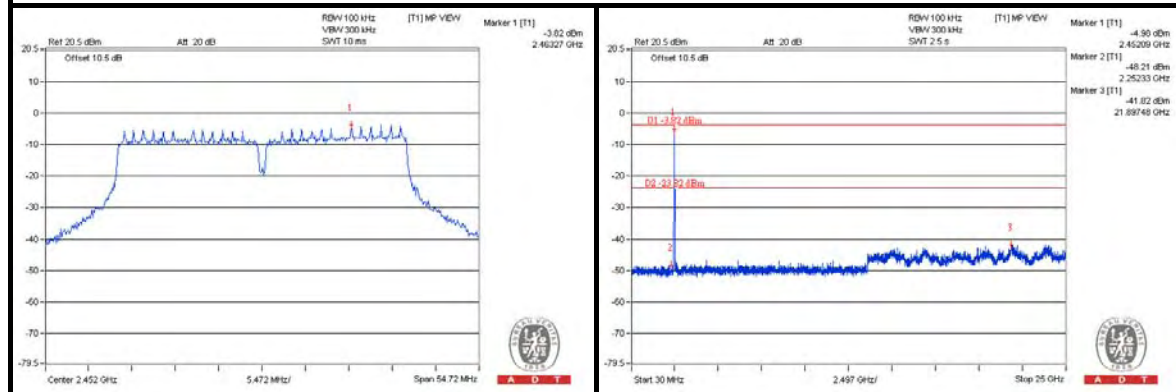
CH 3



CH 6



CH 9

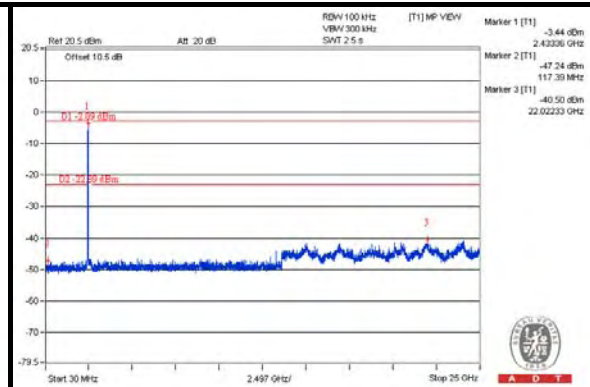
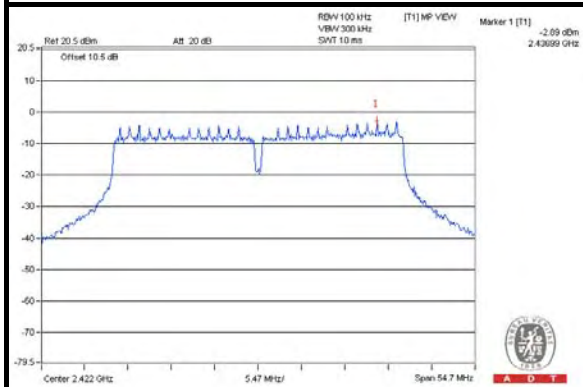




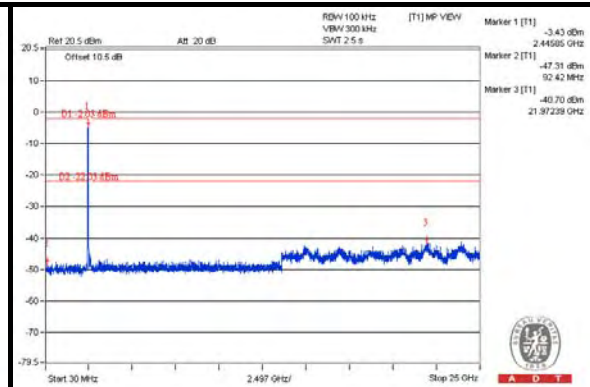
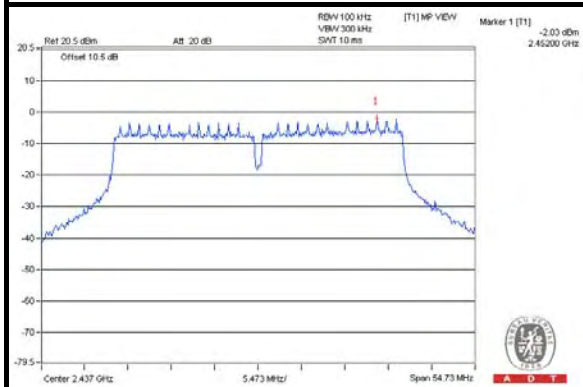
A D T

CHAIN 1

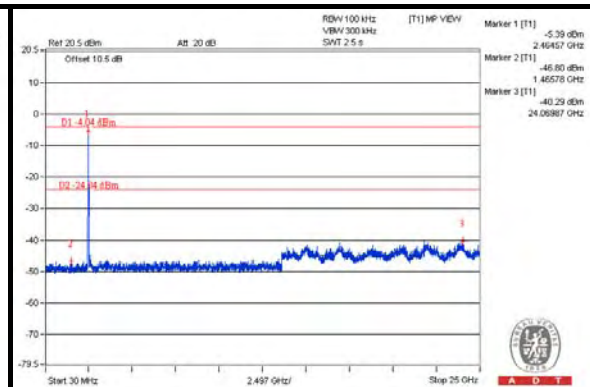
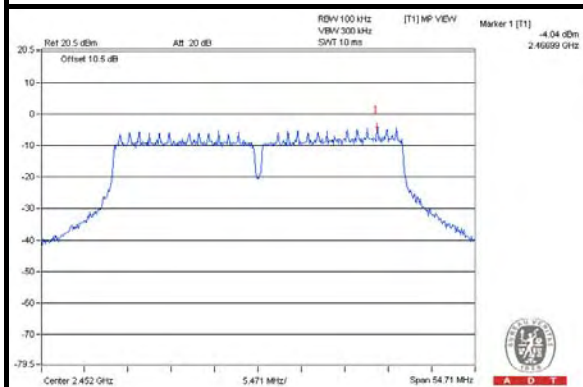
CH 3



CH 6

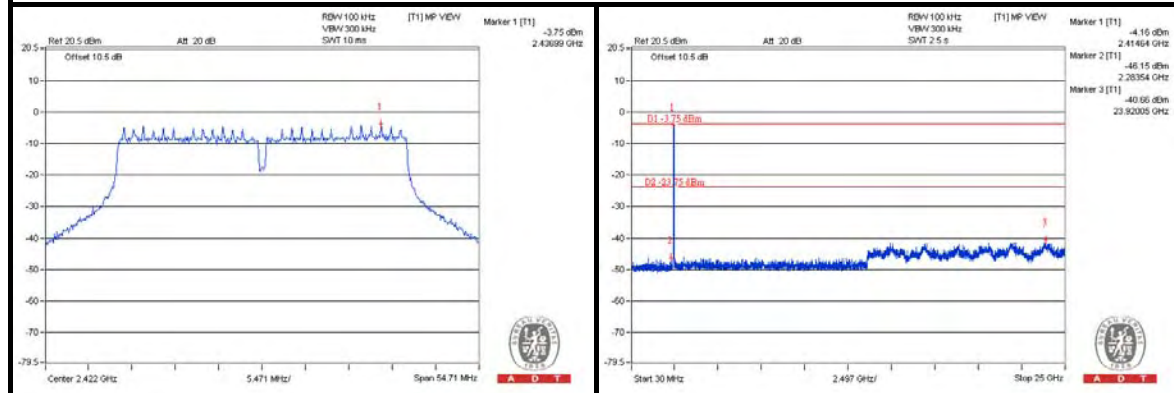


CH 9

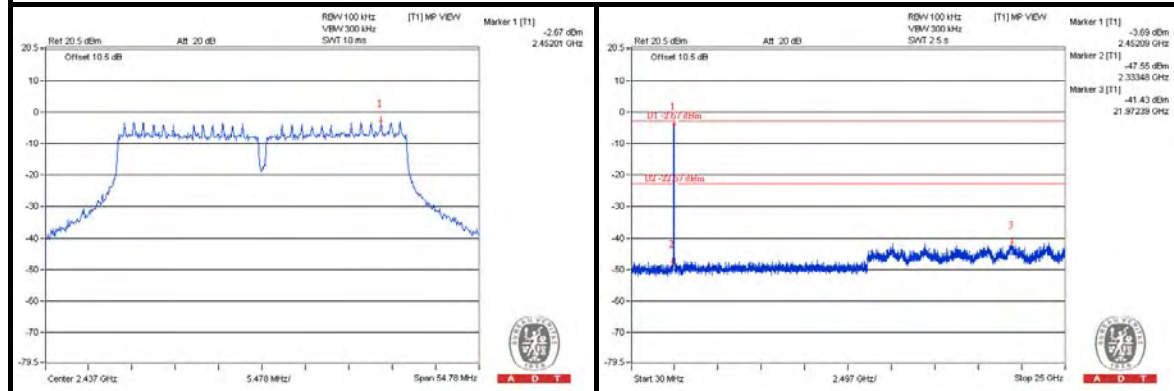


CHAIN 2

CH 3



CH 6



CH 9

