FCC TEST REPORT (15.247)

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MODEL NO.:	XR520H
FCC ID:	SK6-XR520H
RECEIVED:	May 10, 2013
TESTED:	Jun. 04 ~ Sep. 10, 2013
ISSUED:	Sep. 24, 2013

APPLICANT:	Xirrus, 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
RF130514C29	Original release	Sep. 24, 2013

1. CERTIFICATION

PRODUCT:	Hardened Wireless Access Point
MODEL NO.:	XR520H
BRAND:	Xirrus
APPLICANT:	Xirrus, INC.
TESTED:	Jun. 04 ~ Sep. 10, 2013
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC Part 15, Subpart C (Section 15.247)**
	ANSI C63.10-2009

The above equipment (model: XR520H) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : , **DATE :** Sep. 24, 2013

Ivy Lin / Specialist

APPROVED BY : , **DATE :** Sep. 24, 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 -9.21dB at 2.18057MHz.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.3dB at 5725.00MHz.
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 model EHS1GA202A: Antenna connector is 4 x N-Female Type. Antenna model EHS1GA047A: Antenna connector is 6 x N-Female Type. Antenna model MPMI2458-4-RPC: Antenna connector is Reverse Polarity TNC male ANSI 7 / 16 - 28 UNEF 2B threads 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	3.19 dB
	200MHz ~1000MHz	3.21 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	Hardened Wireless Access Point
MODEL NO.	XR520H
POWER SUPPLY	55Vdc (POE)
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 300.0Mbps
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:** 415.949mW for 2412 ~ 2462MHz 523.726mW for 5745 ~ 5825MHz
	Antenna 2: 893.887mW for 2412 ~ 2462MHz 765.051mW for 5745 ~ 5825MHz
	Antenna 3: 995.663mW for 2412 ~ 2462MHz 765.051mW for 5745 ~ 5825MHz
ANTENNA TYPE	Refer to Note as below
ANTENNA CONNECTOR	Refer to Note as below
DATA CABLE	N/A
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	N/A

NOTE:

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

MODULATION MODE	TX FUNCTION
802.11b	2TX
802.11g	2TX
802.11a	2TX
802.11n (20MHz)	2TX
802.11n (40MHz)	2TX

2. The EUT has two collocated dual band RF modules (top and bottom), which can not co-transmit in the same band.

3. The antennas used in this EUT are listed as below table (for optional units):

NO.	MODEL	TYPE	2.4G			5G			Connector
			Gain (dBi)	Loss	Total Gain (dBi)	Gain (dBi)	Loss	Total Gain (dBi)	
Ant.1	EHS1GA202A	Panel	14	4.2	9.8	14	5.2	8.8	4 x N-Female
Ant.2	EHS1GA047A	Panel	8	4.2	3.8	8	5.2	2.8	6 x N-Female
Ant.3	MPMI2458-4-RPC	Omni	4	2.3	1.7	4	2.3	1.7	Reverse Polarity TNC male ANSI 7 / 16 - 28 UNEF 2B threads

4. The EUT was powered by the following POE. (for support unit).

Brand	PowerDsine
Model	PD9001G
Input Power	100-250Vac, 50/60Hz, 0.8A
Output Power	55Vdc, 0.60A

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

3.2 DESCRIPTION OF TEST MODES

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≥1G	RE<1G	PLC	APCM	
A1	√	√	√	√	EUT with antenna 1 & Module 1 (Top)
A2	√	√	√	√	EUT with antenna 1 & Module 2 (Under)
B1	√	√	√	√	EUT with antenna 2 & Module 1 (Top)
B2	√	√	√	√	EUT with antenna 2 & Module 2 (Under)
C1	√	√	√	√	EUT with antenna 3 & Module 1 (Top)
C2	√	√	√	√	EUT with antenna 3 & Module 2 (Under)

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

NOTE:
Mode A1 & A2: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.
Mode B1: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
Mode B2: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.
Mode C1 & C2: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-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)
A1, A2, B1, B2, C1, C2	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A1, A2, B1, B2, C1, C2	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A1, A2, B1, B2, C1, C2	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
A1, A2, B1, B2, C1, C2	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)
A1	802.11g	1 to 11	6	OFDM	BPSK	6.0
A2	802.11n (20MHz)	1 to 11	11	OFDM	BPSK	7.2
B1	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
B2	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
C1	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
C2	802.11n (20MHz)	1 to 11	6	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)
A1	802.11g	1 to 11	6	OFDM	BPSK	6.0
A2	802.11n (20MHz)	1 to 11	11	OFDM	BPSK	7.2
B1	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
B2	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
C1	802.11n (20MHz)	1 to 11	6	OFDM	BPSK	7.2
C2	802.11n (20MHz)	1 to 11	6	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)
A1, A2, B1, B2, C1, C2	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
A1, A2, B1, B2, C1, C2	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
A1, A2, B1, B2, C1, C2	802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	7.2
A1, A2, B1, B2, C1, C2	802.11n (40MHz)	3 to 9	3, 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)
A1, A2, B1, B2, C1, C2	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A1, A2, B1, B2, C1, C2	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A1, A2, B1, B2, C1, C2	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
A1, A2, B1, B2, C1, C2	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	15.0

TEST CONDITION:

APPLICABLE TO	MODE	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	A1, A2	25deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
	B1, B2	25deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
	C1	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
	C2	25deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
RE<1G	A1, A2	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
	B1, B2	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
	C1, C2	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
PLC	A1, A2	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
	B1	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
	B2	26deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
	C1, C2	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
APCM	A1, A2	25deg. C, 60%RH, 24deg. C, 64%RH	120Vac, 60Hz	Cedric Wu, Match Tsui
	B1, B2	25deg. C, 60%RH, 24deg. C, 64%RH	120Vac, 60Hz	Nick Chen, Match Tsui
	C1, C2	25deg. C, 60%RH, 24deg. C, 64%RH	120Vac, 60Hz	Nick Chen, Match Tsui

FOR 5.0GHz (5745 ~ 5825MHz):

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A1	√	√	√	√	EUT with antenna 1 & Module 1 (Top)
A2	√	√	√	√	EUT with antenna 1 & Module 2 (Under)
B1	√	√	√	√	EUT with antenna 2 & Module 1 (Top)
B2	√	√	√	√	EUT with antenna 2 & Module 2 (Under)
C1	√	√	√	√	EUT with antenna 3 & Module 1 (Top)
C2	√	√	√	√	EUT with antenna 3 & Module 2 (Under)

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

NOTE:
Mode A1 & A2: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
Mode B1: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.
Mode B2: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
Mode C1 & C2: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-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)
A1, A2, B1, B2, C1, C2	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A1, A2, B1, B2, C1, C2	802.11n (20MHz)	149 to 165	149, 157, 165	OFDM	BPSK	7.2
A1, A2, B1, B2, C1, C2	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)
A1, A2, B1, B2, C1, C2	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)
A1, A2, B1, B2, C1, C2	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)
A1, A2, B1, B2, C1, C2	802.11a	149 to 165	149, 165	OFDM	BPSK	6.0
A1, A2, B1, B2, C1, C2	802.11n (20MHz)	149 to 165	149, 165	OFDM	BPSK	7.2
A1, A2, B1, B2, C1, C2	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)
A1, A2, B1, B2, C1, C2	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A1, A2, B1, B2, C1, C2	802.11n (20MHz)	149 to 165	149, 157, 165	OFDM	BPSK	7.2
A1, A2, B1, B2, C1, C2	802.11n (40MHz)	151 to 159	151, 159	OFDM	BPSK	15.0

TEST CONDITION:

APPLICABLE TO	MODE	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	A1, A2	25deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
	B1, B2	25deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
	C1	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
	C2	25deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
RE<1G	A1, A2	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
	B1, B2	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
	C1, C2	25deg. C, 65%RH	120Vac, 60Hz	Brad Tung
PLC	A1, A2	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
	B1	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
	B2	26deg. C, 65%RH	120Vac, 60Hz	Cedric Wu
	C1, C2	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
APCM	A1, A2	25deg. C, 60%RH, 24deg. C, 64%RH	120Vac, 60Hz	Cedric Wu, Match Tsui
	B1, B2	25deg. C, 60%RH, 24deg. C, 64%RH	120Vac, 60Hz	Nick Chen, Match Tsui
	C1, C2	25deg. C, 60%RH, 24deg. C, 64%RH	120Vac, 60Hz	Nick Chen, Match Tsui

3.3 DESCRIPTION OF SUPPORT UNITS

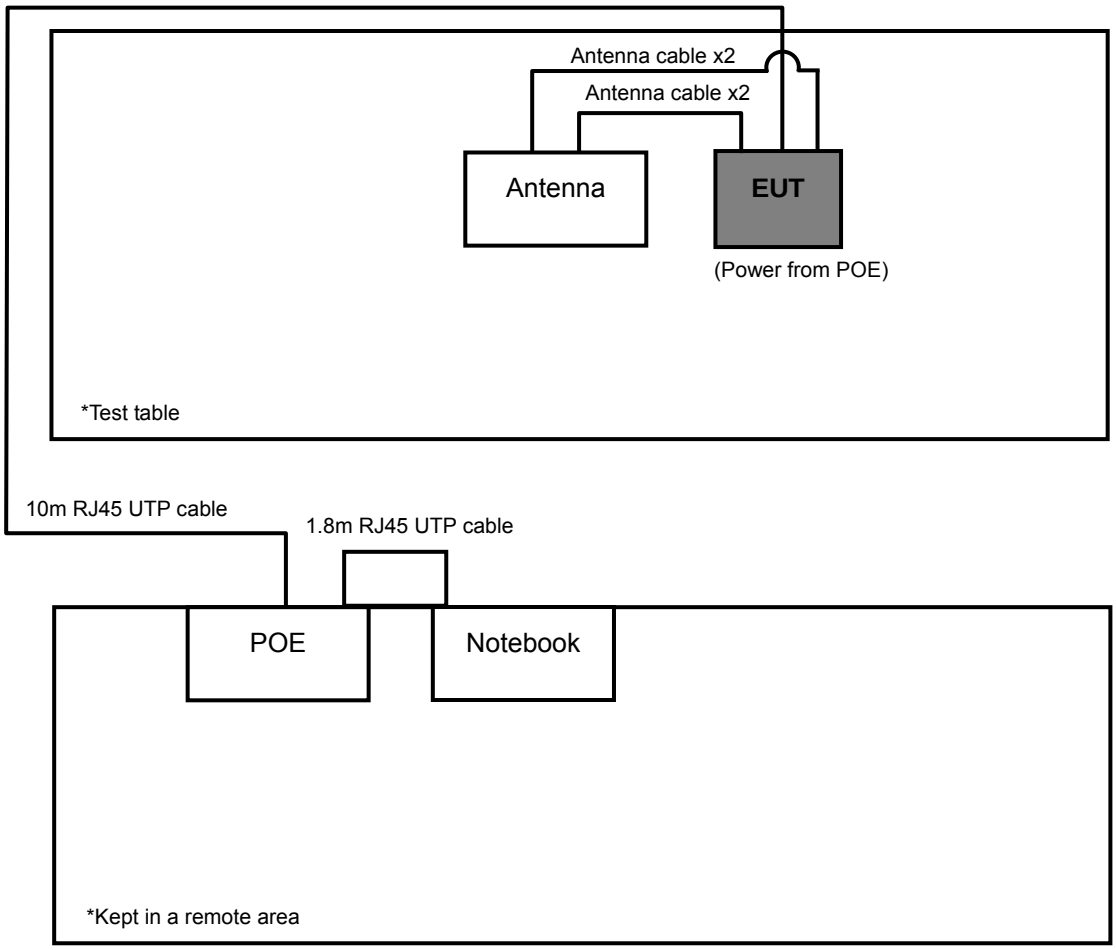
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	E5410	6RP2YM1	FCC Doc Approved
2	POE	PowerDsine	PD9001G	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	10m RJ45 UTP cable. 1.8m RJ45 UTP cable.
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.

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

4. TEST TYPES AND RESULTS (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

Test Date: Jun. 04 ~ Jun. 24, 2013

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Aug. 21, 2012	Aug. 20, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSU 43	100115	Oct. 25, 2012	Oct. 24, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Dec. 22, 2012	Dec. 21, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 11, 2012	Jul. 10, 2013
Preamplifier Agilent	8449B	3008A01961	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8447D	2944A10738	Oct. 23, 2012	Oct. 22, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309220/4	Aug. 28, 2012	Aug. 27, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250724/4	Aug. 28, 2012	Aug. 27, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295012/4	Aug. 28, 2012	Aug. 27, 2013
Software BV ADT	ADT_Radiated_ V7.6.15.9.3	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA	NA
Turn Table BV ADT	TT100.	TT93021704	NA	NA
Turn Table Controller BV ADT	SC100.	SC93021704	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 25, 2012	Oct. 24, 2013
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 4.

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

4. The FCC Site Registration No. is 460141.

5. The IC Site Registration No. is IC7450F-4.

Test Date: Sep. 06 ~ Sep. 10, 2013

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Sep. 17, 2012	Sep. 16, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSU 43	100115	Oct. 25, 2012	Oct. 24, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Dec. 22, 2012	Dec. 21, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 15, 2013	Jul. 14, 2014
Preamplifier Agilent	8449B	3008A01961	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8447D	2944A10738	Oct. 23, 2012	Oct. 22, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309222/4	Aug. 22, 2013	Aug. 21, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	248780/4	Aug. 22, 2013	Aug. 21, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	274392/4	Aug. 22, 2013	Aug. 21, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA	NA
Turn Table BV ADT	TT100.	TT93021704	NA	NA
Turn Table Controller BV ADT	SC100.	SC93021704	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 25, 2012	Oct. 24, 2013
High Speed Peak Power Meter	ML2495A	0842014	Apr. 25, 2013	Apr. 24, 2014
Power Sensor	MA2411B	1026085	Oct. 12, 2012	Oct. 11, 2014

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

2. The test was performed in HwaYa Chamber 4.

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

4. The FCC Site Registration No. is 460141.

5. The IC Site Registration No. is IC7450F-4.

4.1.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

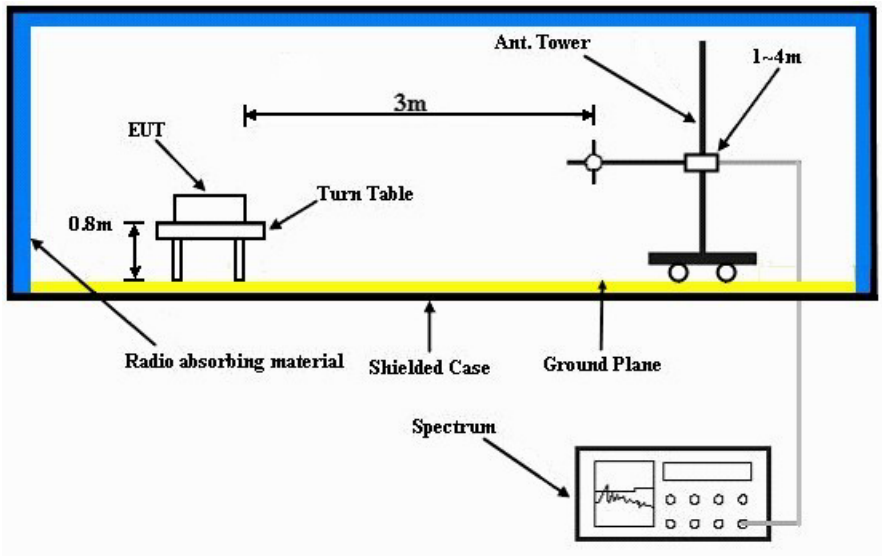
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution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

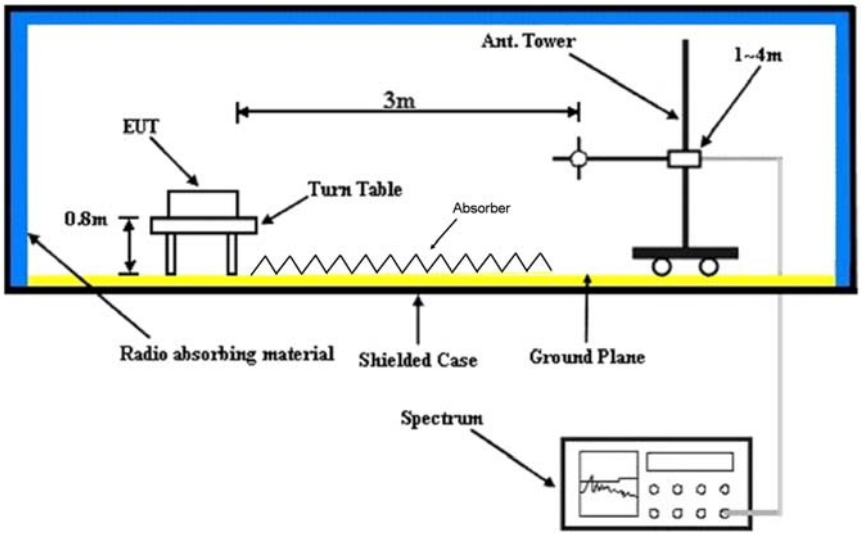
No deviation.

4.1.5 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



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

4.1.6 EUT OPERATING CONDITIONS

a. Placed the EUT on the testing table.
b. Prepared notebook to act as communication partner and placed it outside of testing area.
c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partner sent data to EUT by command "PING".
e. The necessary accessories enabled the system in full functions.

4.1.7 TEST RESULTS

ABOVE 1GHz DATA：

TEST MODE A 1

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	60.5 PK	74.0	-13.5	1.03 H	10	28.60	31.90
2	2390.00	50.8 AV	54.0	-3.2	1.03 H	10	18.90	31.90
3	*2412.00	110.0 PK			1.03 H	10	78.00	32.00
4	*2412.00	106.4 AV			1.03 H	10	74.40	32.00
5	4824.00	51.0 PK	74.0	-23.0	1.00 H	5	46.20	4.80
6	4874.00	46.0 AV	54.0	-8.0	1.00 H	5	41.00	5.00
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	2390.00	58.0 PK	74.0	-16.0	1.20 V	6	26.10	31.90
2	2390.00	47.6 AV	54.0	-6.4	1.20 V	6	15.70	31.90
3	*2412.00	105.0 PK			1.20 V	6	73.00	32.00
4	*2412.00	101.2 AV			1.20 V	6	69.20	32.00
5	4824.00	50.5 PK	74.0	-23.5	1.07 V	12	45.70	4.80
6	4874.00	45.7 AV	54.0	-8.3	1.07 V	12	40.70	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	116.3 PK			1.04 H	6	84.30	32.00
2	*2437.00	113.0 AV			1.04 H	6	81.00	32.00
3	4874.00	52.0 PK	74.0	-22.0	1.00 H	4	47.00	5.00
4	4874.00	46.6 AV	54.0	-7.4	1.00 H	4	41.60	5.00
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	*2437.00	109.7 PK			1.22 V	4	77.70	32.00
2	*2437.00	106.7 AV			1.22 V	4	74.70	32.00
3	4874.00	54.0 PK	74.0	-20.0	1.10 V	10	49.00	5.00
4	4874.00	48.4 AV	54.0	-5.6	1.10 V	10	43.40	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	110.6 PK			1.00 H	10	78.40	32.20
2	*2462.00	107.5 AV			1.00 H	10	75.30	32.20
3	2483.50	60.8 PK	74.0	-13.2	1.00 H	10	28.50	32.30
4	2483.50	51.2 AV	54.0	-2.8	1.00 H	10	18.90	32.30
5	4924.00	51.0 PK	74.0	-23.0	1.03 H	10	46.00	5.00
6	4924.00	46.5 AV	54.0	-7.5	1.03 H	10	41.50	5.00
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	*2462.00	105.6 PK			1.14 V	2	73.40	32.20
2	*2462.00	102.2 AV			1.14 V	2	70.00	32.20
3	2483.50	58.2 PK	74.0	-15.8	1.14 V	2	25.90	32.30
4	2483.50	48.2 AV	54.0	-5.8	1.14 V	2	15.90	32.30
5	4924.00	51.1 PK	74.0	-22.9	1.06 V	30	46.10	5.00
6	4924.00	46.0 AV	54.0	-8.0	1.06 V	30	41.00	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	67.5 PK	74.0	-6.5	1.00 H	3	35.60	31.90
2	2390.00	52.1 AV	54.0	-1.9	1.00 H	3	20.20	31.90
3	*2412.00	114.0 PK			1.00 H	3	82.00	32.00
4	*2412.00	104.0 AV			1.00 H	3	72.00	32.00
5	4824.00	48.0 PK	74.0	-26.0	1.06 H	338	43.20	4.80
6	4824.00	38.0 AV	54.0	-16.0	1.06 H	338	33.20	4.80
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	2390.00	64.0 PK	74.0	-10.0	1.00 V	15	32.10	31.90
2	2390.00	49.0 AV	54.0	-5.0	1.00 V	15	17.10	31.90
3	*2412.00	107.0 PK			1.00 V	15	75.00	32.00
4	*2412.00	97.0 AV			1.00 V	15	65.00	32.00
5	4824.00	47.5 PK	74.0	-26.5	1.00 V	24	42.70	4.80
6	4824.00	37.8 AV	54.0	-16.2	1.00 V	24	33.00	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	114.9 PK			1.00 H	5	82.90	32.00
2	*2437.00	105.0 AV			1.00 H	5	73.00	32.00
3	4874.00	48.5 PK	74.0	-25.5	1.06 H	330	43.50	5.00
4	4874.00	38.1 AV	54.0	-15.9	1.06 H	330	33.10	5.00
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	*2437.00	107.9 PK			1.00 V	11	75.90	32.00
2	*2437.00	98.0 AV			1.00 V	11	66.00	32.00
3	4874.00	48.8 PK	74.0	-25.2	1.00 V	30	43.80	5.00
4	4874.00	38.3 AV	54.0	-15.7	1.00 V	30	33.30	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	114.9 PK			1.00 H	5	82.70	32.20
2	*2462.00	104.5 AV			1.00 H	5	72.30	32.20
3	2483.50	71.4 PK	74.0	-2.6	1.00 H	5	39.10	32.30
4	2483.50	52.3 AV	54.0	-1.7	1.00 H	5	20.00	32.30
5	4924.00	48.5 PK	74.0	-25.5	1.13 H	25	43.50	5.00
6	4924.00	38.0 AV	54.0	-16.0	1.13 H	25	33.00	5.00
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	*2462.00	107.7 PK			1.00 V	5	75.50	32.20
2	*2462.00	97.9 AV			1.00 V	5	65.70	32.20
3	2483.50	65.5 PK	74.0	-8.5	1.00 V	5	33.20	32.30
4	2483.50	48.3 AV	54.0	-5.7	1.00 V	5	16.00	32.30
5	4924.00	48.6 PK	74.0	-25.4	1.00 V	4	43.60	5.00
6	4924.00	38.2 AV	54.0	-15.8	1.00 V	4	33.20	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

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	67.1 PK	74.0	-6.9	1.00 H	8	35.20	31.90
2	2390.00	52.8 AV	54.0	-1.2	1.00 H	8	20.90	31.90
3	*2412.00	111.5 PK			1.00 H	9	79.50	32.00
4	*2412.00	99.5 AV			1.00 H	9	67.50	32.00
5	4824.00	46.9 PK	74.0	-27.1	1.00 H	153	8.30	38.60
6	4824.00	33.8 AV	54.0	-20.2	1.00 H	153	-4.80	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.4 PK	74.0	-10.6	1.34 V	359	31.50	31.90
2	2390.00	50.8 AV	54.0	-3.2	1.34 V	359	18.90	31.90
3	*2412.00	110.6 PK			1.34 V	3	78.60	32.00
4	*2412.00	99.9 AV			1.34 V	3	67.90	32.00
5	4824.00	46.3 PK	74.0	-27.7	1.00 V	310	7.70	38.60
6	4824.00	33.1 AV	54.0	-20.9	1.00 V	310	-5.50	38.60

REMARKS:

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

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

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	121.1 PK			1.00 H	5	89.00	32.10
2	*2437.00	108.9 AV			1.00 H	5	76.80	32.10
3	4874.00	47.7 PK	74.0	-26.3	1.00 H	159	9.00	38.70
4	4874.00	34.6 AV	54.0	-19.4	1.00 H	159	-4.10	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	120.4 PK			1.35 V	5	88.30	32.10
2	*2437.00	107.1 AV			1.35 V	5	75.00	32.10
3	4874.00	47.0 PK	74.0	-27.0	1.00 V	314	8.30	38.70
4	4874.00	33.8 AV	54.0	-20.2	1.00 V	314	-4.90	38.70

REMARKS:

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

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

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	113.7 PK			1.04 H	359	81.50	32.20
2	*2462.00	101.5 AV			1.04 H	359	69.30	32.20
3	2483.50	65.9 PK	74.0	-8.1	1.03 H	5	33.70	32.20
4	2483.50	52.7 AV	54.0	-1.3	1.03 H	5	20.50	32.20
5	4924.00	47.4 PK	74.0	-26.6	1.00 H	148	8.60	38.80
6	4924.00	34.2 AV	54.0	-19.8	1.00 H	148	-4.60	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.6 PK			1.30 V	1	80.40	32.20
2	*2462.00	101.8 AV			1.30 V	1	69.60	32.20
3	2483.50	66.7 PK	74.0	-7.3	1.30 V	2	34.50	32.20
4	2483.50	52.0 AV	54.0	-2.0	1.30 V	2	19.80	32.20
5	4924.00	46.6 PK	74.0	-27.4	1.00 V	301	7.80	38.80
6	4924.00	33.3 AV	54.0	-20.7	1.00 V	301	-5.50	38.80

REMARKS:

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

802.11n (40MHz)

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

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	67.8 PK	74.0	-6.2	1.00 H	10	35.90	31.90
2	2390.00	52.9 AV	54.0	-1.1	1.00 H	10	21.00	31.90
3	*2422.00	105.9 PK			1.00 H	7	73.90	32.00
4	*2422.00	94.8 AV			1.00 H	7	62.80	32.00
5	4844.00	46.2 PK	74.0	-27.8	1.00 H	183	7.50	38.70
6	4844.00	32.9 AV	54.0	-21.1	1.00 H	183	-5.80	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.9 PK	74.0	-8.1	1.35 V	3	34.00	31.90
2	2390.00	50.5 AV	54.0	-3.5	1.35 V	3	18.60	31.90
3	*2422.00	104.7 PK			1.33 V	2	72.70	32.00
4	*2422.00	93.7 AV			1.33 V	2	61.70	32.00
5	4844.00	45.7 PK	74.0	-28.3	1.00 V	320	7.00	38.70
6	4844.00	32.5 AV	54.0	-21.5	1.00 V	320	-6.20	38.70

REMARKS:

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

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

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	111.3 PK			1.00 H	4	79.20	32.10
2	*2437.00	99.9 AV			1.00 H	4	67.80	32.10
3	4874.00	46.7 PK	74.0	-27.3	1.00 H	192	8.00	38.70
4	4874.00	33.5 AV	54.0	-20.5	1.00 H	192	-5.20	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.1 PK			1.30 V	10	78.00	32.10
2	*2437.00	98.7 AV			1.30 V	10	66.60	32.10
3	4874.00	46.1 PK	74.0	-27.9	1.00 V	334	7.40	38.70
4	4874.00	33.1 AV	54.0	-20.9	1.00 V	334	-5.60	38.70

REMARKS:

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

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

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	106.2 PK			1.00 H	8	74.10	32.10
2	*2452.00	94.9 AV			1.00 H	8	62.80	32.10
3	2483.50	68.9 PK	74.0	-5.1	1.00 H	6	36.70	32.20
4	2483.50	53.0 AV	54.0	-1.0	1.00 H	6	20.80	32.20
5	4904.00	46.4 PK	74.0	-27.6	1.00 H	174	7.60	38.80
6	4904.00	33.3 AV	54.0	-20.7	1.00 H	174	-5.50	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	104.8 PK			1.31 V	4	72.70	32.10
2	*2452.00	92.9 AV			1.31 V	4	60.80	32.10
3	2483.50	66.1 PK	74.0	-7.9	1.31 V	359	33.90	32.20
4	2483.50	51.5 AV	54.0	-2.5	1.31 V	359	19.30	32.20
5	4904.00	46.0 PK	74.0	-28.0	1.00 V	314	7.20	38.80
6	4904.00	32.6 AV	54.0	-21.4	1.00 V	314	-6.20	38.80

REMARKS:

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

TEST MODE A 2

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	59.0 PK	74.0	-15.0	1.05 H	5	27.10	31.90
2	2390.00	47.7 AV	54.0	-6.3	1.05 H	5	15.80	31.90
3	*2412.00	104.2 PK			1.05 H	5	72.20	32.00
4	*2412.00	100.3 AV			1.05 H	5	68.30	32.00
5	4824.00	49.9 PK	74.0	-24.1	1.10 H	13	45.10	4.80
6	4824.00	44.0 AV	54.0	-10.0	1.10 H	13	39.20	4.80
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	2390.00	62.0 PK	74.0	-12.0	1.20 V	0	30.10	31.90
2	2390.00	52.4 AV	54.0	-1.6	1.20 V	0	20.50	31.90
3	*2412.00	108.4 PK			1.20 V	0	76.40	32.00
4	*2412.00	104.6 AV			1.20 V	0	72.60	32.00
5	4824.00	49.8 PK	74.0	-24.2	1.08 V	7	45.00	4.80
6	4824.00	43.5 AV	54.0	-10.5	1.08 V	7	38.70	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.2 PK			1.08 H	10	75.20	32.00
2	*2437.00	103.0 AV			1.08 H	10	71.00	32.00
3	4874.00	51.9 PK	74.0	-22.1	1.06 H	2	46.90	5.00
4	4874.00	46.0 AV	54.0	-8.0	1.06 H	2	41.00	5.00
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	*2437.00	111.2 PK			1.14 V	0	79.20	32.00
2	*2437.00	107.0 AV			1.14 V	0	75.00	32.00
3	4874.00	50.9 PK	74.0	-23.1	1.10 V	6	45.90	5.00
4	4874.00	45.2 AV	54.0	-8.8	1.10 V	6	40.20	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.0 PK			1.00 H	11	73.80	32.20
2	*2462.00	103.0 AV			1.00 H	11	70.80	32.20
3	2483.50	58.0 PK	74.0	-16.0	1.00 H	11	25.70	32.30
4	2483.50	48.6 AV	54.0	-5.4	1.00 H	11	16.30	32.30
5	4924.00	50.3 PK	74.0	-23.7	1.08 H	14	45.30	5.00
6	4924.00	44.2 AV	54.0	-9.8	1.08 H	14	39.20	5.00
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	*2462.00	110.1 PK			1.20 V	3	77.90	32.20
2	*2462.00	107.2 AV			1.20 V	3	75.00	32.20
3	2483.50	61.5 PK	74.0	-12.5	1.20 V	3	29.20	32.30
4	2483.50	52.6 AV	54.0	-1.4	1.20 V	3	20.30	32.30
5	4924.00	50.0 PK	74.0	-24.0	1.05 V	20	45.00	5.00
6	4924.00	43.9 AV	54.0	-10.1	1.05 V	20	38.90	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.5 PK	74.0	-7.5	1.00 H	1	34.60	31.90
2	2390.00	52.7 AV	54.0	-1.3	1.00 H	1	20.80	31.90
3	*2412.00	113.6 PK			1.00 H	1	81.60	32.00
4	*2412.00	104.2 AV			1.00 H	1	72.20	32.00
5	4824.00	49.7 PK	74.0	-24.3	1.06 H	50	44.90	4.80
6	4824.00	37.6 AV	54.0	-16.4	1.06 H	50	32.80	4.80
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	2390.00	62.0 PK	74.0	-12.0	1.00 V	23	30.10	31.90
2	2390.00	49.0 AV	54.0	-5.0	1.00 V	23	17.10	31.90
3	*2412.00	106.6 PK			1.00 V	23	74.60	32.00
4	*2412.00	97.0 AV			1.00 V	23	65.00	32.00
5	4824.00	50.0 PK	74.0	-24.0	1.12 V	120	45.20	4.80
6	4824.00	38.0 AV	54.0	-16.0	1.12 V	120	33.20	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	113.4 PK			1.00 H	12	81.40	32.00
2	*2437.00	103.8 AV			1.00 H	12	71.80	32.00
3	4874.00	50.1 PK	74.0	-23.9	1.00 H	11	45.10	5.00
4	4874.00	38.0 AV	54.0	-16.0	1.00 H	11	33.00	5.00
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	*2437.00	106.4 PK			1.00 V	4	74.40	32.00
2	*2437.00	96.8 AV			1.00 V	4	64.80	32.00
3	4874.00	50.0 PK	74.0	-24.0	1.13 V	23	45.00	5.00
4	4874.00	37.9 AV	54.0	-16.1	1.13 V	23	32.90	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	113.9 PK			1.18 H	5	81.70	32.20
2	*2462.00	104.2 AV			1.18 H	5	72.00	32.20
3	2483.50	71.5 PK	74.0	-2.5	1.18 H	5	39.20	32.30
4	2483.50	52.3 AV	54.0	-1.7	1.18 H	5	20.00	32.30
5	4924.00	50.0 PK	74.0	-24.0	1.10 H	30	45.00	5.00
6	4924.00	37.9 AV	54.0	-16.1	1.10 H	30	32.90	5.00
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	*2462.00	106.9 PK			1.00 V	10	74.70	32.20
2	*2462.00	97.2 AV			1.00 V	10	65.00	32.20
3	2483.50	64.5 PK	74.0	-9.5	1.00 V	10	32.20	32.30
4	2483.50	47.3 AV	54.0	-6.7	1.00 V	10	15.00	32.30
5	4924.00	50.3 PK	74.0	-23.7	1.00 V	6	45.30	5.00
6	4924.00	38.0 AV	54.0	-16.0	1.00 V	6	33.00	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.6 PK	74.0	-7.4	1.82 H	307	34.70	31.90
2	2390.00	52.5 AV	54.0	-1.5	1.82 H	307	20.60	31.90
3	*2412.00	106.2 PK			1.80 H	308	74.20	32.00
4	*2412.00	94.9 AV			1.80 H	308	62.90	32.00
5	4824.00	44.3 PK	74.0	-29.7	1.00 H	125	5.70	38.60
6	4824.00	31.5 AV	54.0	-22.5	1.00 H	125	-7.10	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.2 PK	74.0	-10.8	1.25 V	316	31.30	31.90
2	2390.00	48.7 AV	54.0	-5.3	1.25 V	316	16.80	31.90
3	*2412.00	99.1 PK			1.25 V	313	67.10	32.00
4	*2412.00	88.1 AV			1.25 V	313	56.10	32.00
5	4824.00	43.5 PK	74.0	-30.5	1.00 V	240	4.90	38.60
6	4824.00	30.9 AV	54.0	-23.1	1.00 V	240	-7.70	38.60

REMARKS:

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

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

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	115.9 PK			1.80 H	304	83.80	32.10
2	*2437.00	103.9 AV			1.80 H	304	71.80	32.10
3	4874.00	46.1 PK	74.0	-27.9	1.00 H	133	7.40	38.70
4	4874.00	34.9 AV	54.0	-19.1	1.00 H	133	-3.80	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.0 PK			1.23 V	309	75.90	32.10
2	*2437.00	97.0 AV			1.23 V	309	64.90	32.10
3	4874.00	46.5 PK	74.0	-27.5	1.00 V	245	7.80	38.70
4	4874.00	33.7 AV	54.0	-20.3	1.00 V	245	-5.00	38.70

REMARKS:

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

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

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	110.6 PK			1.77 H	310	78.40	32.20
2	*2462.00	99.0 AV			1.77 H	310	66.80	32.20
3	2483.50	70.8 PK	74.0	-3.2	1.77 H	308	38.60	32.20
4	2483.50	52.7 AV	54.0	-1.3	1.77 H	308	20.50	32.20
5	4924.00	45.4 PK	74.0	-28.6	1.00 H	119	6.60	38.80
6	4924.00	34.2 AV	54.0	-19.8	1.00 H	119	-4.60	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.5 PK			1.49 V	313	74.30	32.20
2	*2462.00	93.5 AV			1.49 V	313	61.30	32.20
3	2483.50	64.5 PK	74.0	-9.5	1.50 V	310	32.30	32.20
4	2483.50	48.1 AV	54.0	-5.9	1.50 V	310	15.90	32.20
5	4924.00	45.9 PK	74.0	-28.1	1.00 V	233	7.10	38.80
6	4924.00	33.0 AV	54.0	-21.0	1.00 V	233	-5.80	38.80

REMARKS:

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

802.11n (40MHz)

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

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	67.1 PK	74.0	-6.9	1.80 H	306	35.20	31.90
2	2390.00	52.9 AV	54.0	-1.1	1.80 H	306	21.00	31.90
3	*2422.00	102.1 PK			1.80 H	308	70.10	32.00
4	*2422.00	91.0 AV			1.80 H	308	59.00	32.00
5	4844.00	44.9 PK	74.0	-29.1	1.00 H	155	6.20	38.70
6	4844.00	31.5 AV	54.0	-22.5	1.00 H	155	-7.20	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.9 PK	74.0	-13.1	1.50 V	308	29.00	31.90
2	2390.00	49.3 AV	54.0	-4.7	1.50 V	308	17.40	31.90
3	*2422.00	97.2 PK			1.52 V	313	65.20	32.00
4	*2422.00	86.3 AV			1.52 V	313	54.30	32.00
5	4844.00	44.3 PK	74.0	-29.7	1.00 V	278	5.60	38.70
6	4844.00	30.9 AV	54.0	-23.1	1.00 V	278	-7.80	38.70

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.8 PK			1.78 H	304	75.70	32.10
2	*2437.00	95.8 AV			1.78 H	304	63.70	32.10
3	4874.00	45.8 PK	74.0	-28.2	1.00 H	147	7.10	38.70
4	4874.00	32.3 AV	54.0	-21.7	1.00 H	147	-6.40	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.4 PK			1.52 V	314	71.30	32.10
2	*2437.00	91.6 AV			1.52 V	314	59.50	32.10
3	4874.00	45.1 PK	74.0	-28.9	1.00 V	268	6.40	38.70
4	4874.00	31.7 AV	54.0	-22.3	1.00 V	268	-7.00	38.70

REMARKS:

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

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

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	103.7 PK			1.70 H	309	71.60	32.10
2	*2452.00	92.4 AV			1.70 H	309	60.30	32.10
3	2483.50	69.3 PK	74.0	-4.7	1.70 H	312	37.10	32.20
4	2483.50	52.9 AV	54.0	-1.1	1.70 H	312	20.70	32.20
5	4904.00	45.3 PK	74.0	-28.7	1.00 H	141	6.50	38.80
6	4904.00	31.9 AV	54.0	-22.1	1.00 H	141	-6.90	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	99.0 PK			1.50 V	314	66.90	32.10
2	*2452.00	87.5 AV			1.50 V	314	55.40	32.10
3	2483.50	62.4 PK	74.0	-11.6	1.49 V	316	30.20	32.20
4	2483.50	48.4 AV	54.0	-5.6	1.49 V	316	16.20	32.20
5	4904.00	44.7 PK	74.0	-29.3	1.00 V	254	5.90	38.80
6	4904.00	31.2 AV	54.0	-22.8	1.00 V	254	-7.60	38.80

REMARKS:

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

TEST MODE B 1

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	6	28.20	31.90
2	2390.00	52.4 AV	54.0	-1.6	1.00 H	6	20.50	31.90
3	*2412.00	109.2 PK			1.00 H	6	77.20	32.00
4	*2412.00	104.7 AV			1.00 H	6	72.70	32.00
5	4824.00	48.2 PK	74.0	-25.8	1.25 H	35	43.40	4.80
6	4824.00	38.3 AV	54.0	-15.7	1.25 H	35	33.50	4.80
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	2390.00	60.4 PK	74.0	-13.6	1.08 V	6	28.50	31.90
2	2390.00	51.0 AV	54.0	-3.0	1.08 V	6	19.10	31.90
3	*2412.00	108.0 PK			1.08 V	6	76.00	32.00
4	*2412.00	103.0 AV			1.08 V	6	71.00	32.00
5	4824.00	48.4 PK	74.0	-25.6	1.07 V	152	43.60	4.80
6	4824.00	38.4 AV	54.0	-15.6	1.07 V	152	33.60	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	111.3 PK			1.00 H	7	79.30	32.00
2	*2437.00	108.1 AV			1.00 H	7	76.10	32.00
3	4874.00	51.4 PK	74.0	-22.6	1.04 H	39	46.40	5.00
4	4874.00	46.3 AV	54.0	-7.7	1.04 H	39	41.30	5.00
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	*2437.00	110.3 PK			1.31 V	17	78.30	32.00
2	*2437.00	106.5 AV			1.31 V	17	74.50	32.00
3	4874.00	51.4 PK	74.0	-22.6	1.00 V	39	46.40	5.00
4	4874.00	46.2 AV	54.0	-7.8	1.00 V	39	41.20	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.1 PK			1.19 H	348	74.90	32.20
2	*2462.00	103.3 AV			1.19 H	348	71.10	32.20
3	2483.50	57.2 PK	74.0	-16.8	1.20 H	348	24.90	32.30
4	2483.50	47.5 AV	54.0	-6.5	1.20 H	348	15.20	32.30
5	4924.00	48.0 PK	74.0	-26.0	1.06 H	38	43.00	5.00
6	4924.00	38.1 AV	54.0	-15.9	1.06 H	38	33.10	5.00
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	*2462.00	105.4 PK			1.07 V	14	73.20	32.20
2	*2462.00	101.6 AV			1.07 V	14	69.40	32.20
3	2483.50	56.5 PK	74.0	-17.5	1.09 V	16	24.20	32.30
4	2483.50	45.7 AV	54.0	-8.3	1.09 V	16	13.40	32.30
5	4924.00	47.5 PK	74.0	-26.5	1.00 V	35	42.50	5.00
6	4924.00	37.9 AV	54.0	-16.1	1.00 V	35	32.90	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.4 PK	74.0	-8.6	1.00 H	351	33.50	31.90
2	2390.00	50.2 AV	54.0	-3.8	1.00 H	351	18.30	31.90
3	*2412.00	108.8 PK			1.00 H	354	76.80	32.00
4	*2412.00	99.1 AV			1.00 H	354	67.10	32.00
5	4824.00	48.1 PK	74.0	-25.9	1.07 H	33	43.30	4.80
6	4824.00	33.7 AV	54.0	-20.3	1.07 H	33	28.90	4.80
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	2390.00	62.6 PK	74.0	-11.4	1.06 V	2	30.70	31.90
2	2390.00	48.8 AV	54.0	-5.2	1.06 V	2	16.90	31.90
3	*2412.00	107.9 PK			1.08 V	5	75.90	32.00
4	*2412.00	97.6 AV			1.08 V	5	65.60	32.00
5	4824.00	47.9 PK	74.0	-26.1	1.00 V	38	43.10	4.80
6	4824.00	33.0 AV	54.0	-21.0	1.00 V	38	28.20	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	114.1 PK			1.00 H	7	82.10	32.00
2	*2437.00	103.9 AV			1.00 H	7	71.90	32.00
3	4874.00	48.6 PK	74.0	-25.4	1.09 H	39	43.60	5.00
4	4874.00	34.5 AV	54.0	-19.5	1.09 H	39	29.50	5.00
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	*2437.00	113.2 PK			1.32 V	6	81.20	32.00
2	*2437.00	102.9 AV			1.32 V	6	70.90	32.00
3	4874.00	48.4 PK	74.0	-25.6	1.01 V	39	43.40	5.00
4	4874.00	33.9 AV	54.0	-20.1	1.01 V	39	28.90	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	109.3 PK			1.00 H	355	77.10	32.20
2	*2462.00	98.8 AV			1.00 H	355	66.60	32.20
3	2483.50	65.4 PK	74.0	-8.6	1.00 H	359	33.10	32.30
4	2483.50	50.3 AV	54.0	-3.7	1.00 H	359	18.00	32.30
5	4924.00	48.2 PK	74.0	-25.8	1.00 H	35	43.20	5.00
6	4924.00	33.2 AV	54.0	-20.8	1.00 H	35	28.20	5.00
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	*2462.00	108.4 PK			1.05 V	17	76.20	32.20
2	*2462.00	97.7 AV			1.05 V	17	65.50	32.20
3	2483.50	63.2 PK	74.0	-10.8	1.03 V	15	30.90	32.30
4	2483.50	49.5 AV	54.0	-4.5	1.03 V	15	17.20	32.30
5	4924.00	48.0 PK	74.0	-26.0	1.02 V	38	43.00	5.00
6	4924.00	32.5 AV	54.0	-21.5	1.02 V	38	27.50	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

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	68.7 PK	74.0	-5.3	1.19 H	6	36.80	31.90
2	2390.00	52.4 AV	54.0	-1.6	1.19 H	6	20.50	31.90
3	*2412.00	112.4 PK			1.18 H	8	80.40	32.00
4	*2412.00	102.7 AV			1.18 H	8	70.70	32.00
5	4824.00	45.1 PK	74.0	-28.9	1.00 H	73	6.50	38.60
6	4824.00	32.1 AV	54.0	-21.9	1.00 H	73	-6.50	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.9 PK	74.0	-7.1	1.05 V	358	35.00	31.90
2	2390.00	51.8 AV	54.0	-2.2	1.05 V	358	19.90	31.90
3	*2412.00	109.9 PK			1.04 V	359	77.90	32.00
4	*2412.00	99.9 AV			1.04 V	359	67.90	32.00
5	4824.00	44.6 PK	74.0	-29.4	1.00 V	310	6.00	38.60
6	4824.00	31.4 AV	54.0	-22.6	1.00 V	310	-7.20	38.60

REMARKS:

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

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

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	119.4 PK			1.17 H	11	87.30	32.10
2	*2437.00	109.5 AV			1.17 H	11	77.40	32.10
3	4874.00	51.6 PK	74.0	-22.4	1.00 H	77	12.90	38.70
4	4874.00	38.4 AV	54.0	-15.6	1.00 H	77	-0.30	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.9 PK			1.05 V	357	84.80	32.10
2	*2437.00	107.6 AV			1.05 V	357	75.50	32.10
3	4874.00	51.3 PK	74.0	-22.7	1.00 V	334	12.60	38.70
4	4874.00	38.1 AV	54.0	-15.9	1.00 V	334	-0.60	38.70

REMARKS:

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

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

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	114.0 PK			1.15 H	7	81.80	32.20
2	*2462.00	104.4 AV			1.15 H	7	72.20	32.20
3	2483.50	68.6 PK	74.0	-5.4	1.16 H	5	36.40	32.20
4	2483.50	52.3 AV	54.0	-1.7	1.16 H	5	20.10	32.20
5	4924.00	45.7 PK	74.0	-28.3	1.00 H	70	6.90	38.80
6	4924.00	32.6 AV	54.0	-21.4	1.00 H	70	-6.20	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.3 PK			1.02 V	351	79.10	32.20
2	*2462.00	101.4 AV			1.02 V	351	69.20	32.20
3	2483.50	51.9 PK	74.0	-22.1	1.03 V	352	19.70	32.20
4	2483.50	45.4 AV	54.0	-8.6	1.03 V	352	13.20	32.20
5	4924.00	45.1 PK	74.0	-28.9	1.00 V	299	6.30	38.80
6	4924.00	32.0 AV	54.0	-22.0	1.00 V	299	-6.80	38.80

REMARKS:

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

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.1 PK	74.0	-7.9	1.16 H	1	34.20	31.90
2	2390.00	52.4 AV	54.0	-1.6	1.16 H	1	20.50	31.90
3	*2422.00	106.2 PK			1.15 H	3	74.20	32.00
4	*2422.00	94.0 AV			1.15 H	3	62.00	32.00
5	4844.00	45.0 PK	74.0	-29.0	1.00 H	56	6.30	38.70
6	4844.00	32.1 AV	54.0	-21.9	1.00 H	56	-6.60	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.0 PK	74.0	-10.0	1.22 V	356	32.10	31.90
2	2390.00	50.3 AV	54.0	-3.7	1.22 V	356	18.40	31.90
3	*2422.00	104.6 PK			1.24 V	353	72.60	32.00
4	*2422.00	92.7 AV			1.24 V	353	60.70	32.00
5	4844.00	44.6 PK	74.0	-29.4	1.00 V	276	5.90	38.70
6	4844.00	31.6 AV	54.0	-22.4	1.00 V	276	-7.10	38.70

REMARKS:

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

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

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	111.3 PK			1.18 H	3	79.20	32.10
2	*2437.00	99.9 AV			1.18 H	3	67.80	32.10
3	4874.00	49.8 PK	74.0	-24.2	1.00 H	58	11.10	38.70
4	4874.00	37.0 AV	54.0	-17.0	1.00 H	58	-1.70	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.4 PK			1.25 V	351	77.30	32.10
2	*2437.00	97.8 AV			1.25 V	351	65.70	32.10
3	4874.00	49.2 PK	74.0	-24.8	1.00 V	285	10.50	38.70
4	4874.00	36.1 AV	54.0	-17.9	1.00 V	285	-2.60	38.70

REMARKS:

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

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

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	105.5 PK			1.18 H	7	73.40	32.10
2	*2452.00	93.5 AV			1.18 H	7	61.40	32.10
3	2483.50	69.0 PK	74.0	-5.0	1.17 H	6	36.80	32.20
4	2483.50	53.0 AV	54.0	-1.0	1.17 H	6	20.80	32.20
5	4904.00	44.6 PK	74.0	-29.4	1.00 H	51	5.80	38.80
6	4904.00	31.6 AV	54.0	-22.4	1.00 H	51	-7.20	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	103.2 PK			1.25 V	359	71.10	32.10
2	*2452.00	91.7 AV			1.25 V	359	59.60	32.10
3	2483.50	66.5 PK	74.0	-7.5	1.25 V	354	34.20	32.30
4	2483.50	50.9 AV	54.0	-3.1	1.25 V	354	18.60	32.30
5	4904.00	44.0 PK	74.0	-30.0	1.00 V	268	5.20	38.80
6	4904.00	31.1 AV	54.0	-22.9	1.00 V	268	-7.70	38.80

REMARKS:

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

TEST MODE B 2

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2386.00	55.3 PK	74.0	-18.7	1.00 H	3	23.40	31.90
2	2386.00	44.3 AV	54.0	-9.7	1.00 H	3	12.40	31.90
3	*2412.00	105.7 PK			1.00 H	6	73.70	32.00
4	*2412.00	102.0 AV			1.00 H	6	70.00	32.00
5	4824.00	47.1 PK	74.0	-26.9	1.00 H	30	42.30	4.80
6	4824.00	33.6 AV	54.0	-20.4	1.00 H	30	28.80	4.80
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	2386.00	55.6 PK	74.0	-18.4	1.24 V	19	23.70	31.90
2	2386.00	43.8 AV	54.0	-10.2	1.24 V	19	11.90	31.90
3	*2412.00	104.6 PK			1.29 V	14	72.60	32.00
4	*2412.00	101.1 AV			1.29 V	14	69.10	32.00
5	4824.00	46.5 PK	74.0	-27.5	1.00 V	328	41.70	4.80
6	4824.00	33.9 AV	54.0	-20.1	1.00 V	328	29.10	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	112.2 PK			1.00 H	5	80.20	32.00
2	*2437.00	108.6 AV			1.00 H	5	76.60	32.00
3	4874.00	48.4 PK	74.0	-25.6	1.00 H	305	43.40	5.00
4	4874.00	38.8 AV	54.0	-15.2	1.00 H	305	33.80	5.00
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	*2437.00	111.0 PK			1.30 V	14	79.00	32.00
2	*2437.00	107.2 AV			1.30 V	14	75.20	32.00
3	4874.00	48.4 PK	74.0	-25.6	1.00 V	329	43.40	5.00
4	4874.00	39.2 AV	54.0	-14.8	1.00 V	329	34.20	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	109.8 PK			1.20 H	17	77.60	32.20
2	*2462.00	106.2 AV			1.20 H	17	74.00	32.20
3	2488.00	60.8 PK	74.0	-13.2	1.16 H	14	28.50	32.30
4	2488.00	52.9 AV	54.0	-1.1	1.16 H	14	20.60	32.30
5	4924.00	48.2 PK	74.0	-25.8	1.00 H	302	43.20	5.00
6	4924.00	38.5 AV	54.0	-15.5	1.00 H	302	33.50	5.00
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	*2462.00	108.0 PK			1.06 V	1	75.80	32.20
2	*2462.00	104.2 AV			1.06 V	1	72.00	32.20
3	2488.00	59.6 PK	74.0	-14.4	1.07 V	0	27.30	32.30
4	2488.00	51.5 AV	54.0	-2.5	1.07 V	0	19.20	32.30
5	4924.00	48.3 PK	74.0	-25.7	1.00 V	327	43.30	5.00
6	4924.00	39.0 AV	54.0	-15.0	1.00 V	327	34.00	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	61.6 PK	74.0	-12.4	1.00 H	5	29.70	31.90
2	2390.00	47.3 AV	54.0	-6.7	1.00 H	5	15.40	31.90
3	*2412.00	106.4 PK			1.00 H	3	74.40	32.00
4	*2412.00	96.8 AV			1.00 H	3	64.80	32.00
5	4824.00	46.8 PK	74.0	-27.2	1.00 H	304	42.00	4.80
6	4824.00	32.9 AV	54.0	-21.1	1.00 H	304	28.10	4.80
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	2390.00	60.3 PK	74.0	-13.7	1.39 V	1	28.40	31.90
2	2390.00	47.0 AV	54.0	-7.0	1.39 V	1	15.10	31.90
3	*2412.00	105.9 PK			1.33 V	9	73.90	32.00
4	*2412.00	96.0 AV			1.33 V	9	64.00	32.00
5	4824.00	46.4 PK	74.0	-27.6	1.00 V	328	41.60	4.80
6	4824.00	33.1 AV	54.0	-20.9	1.00 V	328	28.30	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	113.5 PK			1.00 H	3	81.50	32.00
2	*2437.00	103.0 AV			1.00 H	3	71.00	32.00
3	4874.00	48.4 PK	74.0	-25.6	1.00 H	300	43.40	5.00
4	4874.00	35.4 AV	54.0	-18.6	1.00 H	300	30.40	5.00
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	*2437.00	113.1 PK			1.33 V	13	81.10	32.00
2	*2437.00	102.1 AV			1.33 V	13	70.10	32.00
3	4874.00	49.2 PK	74.0	-24.8	1.00 V	321	44.20	5.00
4	4874.00	35.9 AV	54.0	-18.1	1.00 V	321	30.90	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	110.0 PK			1.00 H	12	77.80	32.20
2	*2462.00	99.7 AV			1.00 H	12	67.50	32.20
3	2483.50	66.8 PK	74.0	-7.2	1.00 H	10	34.50	32.30
4	2483.50	51.4 AV	54.0	-2.6	1.00 H	10	19.10	32.30
5	4924.00	48.1 PK	74.0	-25.9	1.00 H	310	43.10	5.00
6	4924.00	35.2 AV	54.0	-18.8	1.00 H	310	30.20	5.00
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	*2462.00	109.5 PK			1.30 V	5	77.30	32.20
2	*2462.00	99.4 AV			1.30 V	5	67.20	32.20
3	2483.50	68.1 PK	74.0	-5.9	1.25 V	4	35.80	32.30
4	2483.50	51.4 AV	54.0	-2.6	1.25 V	4	19.10	32.30
5	4924.00	48.9 PK	74.0	-25.1	1.00 V	329	43.90	5.00
6	4924.00	35.7 AV	54.0	-18.3	1.00 V	329	30.70	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

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	65.9 PK	74.0	-8.1	1.02 H	313	34.00	31.90
2	2390.00	53.0 AV	54.0	-1.0	1.02 H	313	21.10	31.90
3	*2412.00	107.3 PK			1.00 H	320	75.30	32.00
4	*2412.00	97.4 AV			1.00 H	320	65.40	32.00
5	4824.00	42.3 PK	74.0	-31.7	1.00 H	6	3.70	38.60
6	4824.00	29.2 AV	54.0	-24.8	1.00 H	6	-9.40	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.3 PK	74.0	-13.7	1.00 V	40	28.40	31.90
2	2390.00	47.0 AV	54.0	-7.0	1.00 V	40	15.10	31.90
3	*2412.00	98.4 PK			1.00 V	36	66.40	32.00
4	*2412.00	89.3 AV			1.00 V	36	57.30	32.00
5	4824.00	41.5 PK	74.0	-32.5	1.00 V	240	2.90	38.60
6	4824.00	28.3 AV	54.0	-25.7	1.00 V	240	-10.30	38.60

REMARKS:

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

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

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	117.0 PK			1.00 H	321	84.90	32.10
2	*2437.00	107.2 AV			1.00 H	321	75.10	32.10
3	4874.00	47.5 PK	74.0	-26.5	1.00 H	1	8.80	38.70
4	4874.00	34.8 AV	54.0	-19.2	1.00 H	1	-3.90	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.2 PK			1.00 V	31	76.10	32.10
2	*2437.00	99.0 AV			1.00 V	31	66.90	32.10
3	4874.00	46.6 PK	74.0	-27.4	1.00 V	245	7.90	38.70
4	4874.00	33.9 AV	54.0	-20.1	1.00 V	245	-4.80	38.70

REMARKS:

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

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

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	110.9 PK			1.00 H	314	78.70	32.20
2	*2462.00	101.4 AV			1.00 H	314	69.20	32.20
3	2483.50	70.2 PK	74.0	-3.8	1.00 H	316	38.00	32.20
4	2483.50	52.6 AV	54.0	-1.4	1.00 H	316	20.40	32.20
5	4924.00	45.9 PK	74.0	-28.1	1.00 H	2	7.10	38.80
6	4924.00	33.0 AV	54.0	-21.0	1.00 H	2	-5.80	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.1 PK			1.00 V	29	69.90	32.20
2	*2462.00	92.5 AV			1.00 V	29	60.30	32.20
3	2483.50	63.3 PK	74.0	-10.7	1.00 V	27	31.10	32.20
4	2483.50	50.1 AV	54.0	-3.9	1.00 V	27	17.90	32.20
5	4924.00	44.5 PK	74.0	-29.5	1.00 V	231	5.70	38.80
6	4924.00	31.7 AV	54.0	-22.3	1.00 V	231	-7.10	38.80

REMARKS:

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

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.9 PK	74.0	-7.1	1.00 H	318	35.00	31.90
2	2390.00	53.0 AV	54.0	-1.0	1.00 H	318	21.10	31.90
3	*2422.00	103.7 PK			1.00 H	321	71.70	32.00
4	*2422.00	92.4 AV			1.00 H	321	60.40	32.00
5	4824.00	41.5 PK	74.0	-32.5	1.00 H	26	2.90	38.60
6	4824.00	30.3 AV	54.0	-23.7	1.00 H	26	-8.30	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.5 PK	74.0	-13.5	1.25 V	33	28.60	31.90
2	2390.00	47.5 AV	54.0	-6.5	1.25 V	33	15.60	31.90
3	*2422.00	95.3 PK			1.23 V	33	63.30	32.00
4	*2422.00	84.9 AV			1.23 V	33	52.90	32.00
5	4824.00	40.1 PK	74.0	-33.9	1.00 V	255	1.50	38.60
6	4824.00	28.8 AV	54.0	-25.2	1.00 V	255	-9.80	38.60

REMARKS:

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

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

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	108.9 PK			1.00 H	317	76.80	32.10
2	*2437.00	97.7 AV			1.00 H	317	65.60	32.10
3	4874.00	45.0 PK	74.0	-29.0	1.00 H	20	6.30	38.70
4	4874.00	33.7 AV	54.0	-20.3	1.00 H	20	-5.00	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	101.1 PK			1.19 V	30	69.00	32.10
2	*2437.00	91.2 AV			1.19 V	30	59.10	32.10
3	4874.00	43.2 PK	74.0	-30.8	1.00 V	261	4.50	38.70
4	4874.00	32.1 AV	54.0	-21.9	1.00 V	261	-6.60	38.70

REMARKS:

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

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

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	105.0 PK			1.00 H	311	72.90	32.10
2	*2452.00	94.0 AV			1.00 H	311	61.90	32.10
3	2483.50	67.2 PK	74.0	-6.8	1.00 H	315	35.00	32.20
4	2483.50	52.8 AV	54.0	-1.2	1.00 H	315	20.60	32.20
5	4904.00	42.1 PK	74.0	-31.9	1.00 H	31	3.30	38.80
6	4904.00	30.8 AV	54.0	-23.2	1.00 H	31	-8.00	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	98.7 PK			1.22 V	32	66.60	32.10
2	*2452.00	87.2 AV			1.22 V	32	55.10	32.10
3	2483.50	63.3 PK	74.0	-10.7	1.20 V	34	31.10	32.20
4	2483.50	47.7 AV	54.0	-6.3	1.20 V	34	15.50	32.20
5	4904.00	39.5 PK	74.0	-34.5	1.00 V	263	0.70	38.80
6	4904.00	29.1 AV	54.0	-24.9	1.00 V	263	-9.70	38.80

REMARKS:

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

TEST MODE C 1

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	54.8 PK	74.0	-19.2	1.00 H	151	22.90	31.90
2	2390.00	44.8 AV	54.0	-9.2	1.00 H	151	12.90	31.90
3	*2412.00	100.0 PK			1.00 H	150	68.00	32.00
4	*2412.00	96.8 AV			1.00 H	150	64.80	32.00
5	4824.00	46.6 PK	74.0	-27.4	1.00 H	50	41.80	4.80
6	4824.00	34.0 AV	54.0	-20.0	1.00 H	50	29.20	4.80
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	2390.00	59.0 PK	74.0	-15.0	1.35 V	346	27.10	31.90
2	2390.00	52.2 AV	54.0	-1.8	1.35 V	346	20.30	31.90
3	*2412.00	108.3 PK			1.38 V	340	76.30	32.00
4	*2412.00	104.6 AV			1.38 V	340	72.60	32.00
5	4824.00	46.4 PK	74.0	-27.6	1.00 V	305	41.60	4.80
6	4824.00	33.3 AV	54.0	-20.7	1.00 V	305	28.50	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	103.8 PK			1.00 H	149	71.80	32.00
2	*2437.00	99.6 AV			1.00 H	149	67.60	32.00
3	4874.00	47.2 PK	74.0	-26.8	1.00 H	55	42.20	5.00
4	4874.00	40.1 AV	54.0	-13.9	1.00 H	55	35.10	5.00
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	*2437.00	112.8 PK			1.34 V	344	80.80	32.00
2	*2437.00	109.1 AV			1.34 V	344	77.10	32.00
3	4874.00	52.4 PK	74.0	-21.6	1.00 V	357	47.40	5.00
4	4874.00	48.0 AV	54.0	-6.0	1.00 V	357	43.00	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	100.2 PK			1.00 H	151	68.00	32.20
2	*2462.00	96.2 AV			1.00 H	151	64.00	32.20
3	2483.50	55.6 PK	74.0	-18.4	1.00 H	149	23.30	32.30
4	2483.50	43.5 AV	54.0	-10.5	1.00 H	149	11.20	32.30
5	4924.00	45.9 PK	74.0	-28.1	1.00 H	40	40.90	5.00
6	4924.00	35.9 AV	54.0	-18.1	1.00 H	40	30.90	5.00
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	*2462.00	110.0 PK			1.35 V	331	77.80	32.20
2	*2462.00	105.4 AV			1.35 V	331	73.20	32.20
3	2483.50	59.5 PK	74.0	-14.5	1.35 V	341	27.20	32.30
4	2483.50	52.3 AV	54.0	-1.7	1.35 V	341	20.00	32.30
5	4924.00	51.4 PK	74.0	-22.6	1.00 V	358	46.40	5.00
6	4924.00	47.7 AV	54.0	-6.3	1.00 V	358	42.70	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	56.9 PK	74.0	-17.1	1.00 H	147	25.00	31.90
2	2390.00	44.6 AV	54.0	-9.4	1.00 H	147	12.70	31.90
3	*2412.00	101.3 PK			1.00 H	150	69.30	32.00
4	*2412.00	91.0 AV			1.00 H	150	59.00	32.00
5	4824.00	46.4 PK	74.0	-27.6	1.00 H	305	41.60	4.80
6	4824.00	33.3 AV	54.0	-20.7	1.00 H	305	28.50	4.80
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	2390.00	63.3 PK	74.0	-10.7	1.36 V	349	31.40	31.90
2	2390.00	51.5 AV	54.0	-2.5	1.36 V	349	19.60	31.90
3	*2412.00	110.3 PK			1.36 V	324	78.30	32.00
4	*2412.00	100.8 AV			1.36 V	324	68.80	32.00
5	4824.00	47.3 PK	74.0	-26.7	1.00 V	90	42.50	4.80
6	4824.00	34.4 AV	54.0	-19.6	1.00 V	90	29.60	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	106.2 PK			1.00 H	155	74.20	32.00
2	*2437.00	94.9 AV			1.00 H	155	62.90	32.00
3	4874.00	48.5 PK	74.0	-25.5	1.00 H	310	43.50	5.00
4	4874.00	35.3 AV	54.0	-18.7	1.00 H	310	30.30	5.00
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	*2437.00	115.1 PK			1.32 V	334	83.10	32.00
2	*2437.00	105.8 AV			1.32 V	334	73.80	32.00
3	4874.00	49.2 PK	74.0	-24.8	1.00 V	99	44.20	5.00
4	4874.00	36.1 AV	54.0	-17.9	1.00 V	99	31.10	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	100.1 PK			1.00 H	152	67.90	32.20
2	*2462.00	90.6 AV			1.00 H	152	58.40	32.20
3	2483.50	57.0 PK	74.0	-17.0	1.00 H	152	24.70	32.30
4	2483.50	44.0 AV	54.0	-10.0	1.00 H	152	11.70	32.30
5	4924.00	46.9 PK	74.0	-27.1	1.00 H	287	41.90	5.00
6	4924.00	33.7 AV	54.0	-20.3	1.00 H	287	28.70	5.00
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	*2462.00	111.0 PK			1.34 V	335	78.80	32.20
2	*2462.00	102.0 AV			1.34 V	335	69.80	32.20
3	2483.50	65.9 PK	74.0	-8.1	1.34 V	336	33.60	32.30
4	2483.50	52.4 AV	54.0	-1.6	1.34 V	336	20.10	32.30
5	4924.00	47.6 PK	74.0	-26.4	1.00 V	88	42.60	5.00
6	4924.00	34.8 AV	54.0	-19.2	1.00 V	88	29.80	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

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	64.9 PK	74.0	-9.1	1.21 H	61	33.00	31.90
2	2390.00	49.2 AV	54.0	-4.8	1.21 H	61	17.30	31.90
3	*2412.00	103.2 PK			1.21 H	61	71.20	32.00
4	*2412.00	91.7 AV			1.21 H	61	59.70	32.00
5	4824.00	46.6 PK	74.0	-27.4	1.42 H	108	8.00	38.60
6	4824.00	32.0 AV	54.0	-22.0	1.42 H	108	-6.60	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.4 PK	74.0	-2.6	1.41 V	24	39.50	31.90
2	2390.00	53.0 AV	54.0	-1.0	1.41 V	24	21.10	31.90
3	*2412.00	111.7 PK			1.41 V	25	79.70	32.00
4	*2412.00	100.8 AV			1.41 V	25	68.80	32.00
5	4824.00	47.8 PK	74.0	-26.2	1.29 V	311	9.20	38.60
6	4824.00	33.5 AV	54.0	-20.5	1.29 V	311	-5.10	38.60

REMARKS:

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

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

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	108.2 PK			1.22 H	59	76.10	32.10
2	*2437.00	95.8 AV			1.22 H	59	63.70	32.10
3	4874.00	48.0 PK	74.0	-26.0	1.38 H	103	9.30	38.70
4	4874.00	33.0 AV	54.0	-21.0	1.38 H	103	-5.70	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.1 PK			1.57 V	20	84.00	32.10
2	*2437.00	103.7 AV			1.57 V	20	71.60	32.10
3	4874.00	49.0 PK	74.0	-25.0	1.30 V	300	10.30	38.70
4	4874.00	35.2 AV	54.0	-18.8	1.30 V	300	-3.50	38.70

REMARKS:

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

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

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	103.8 PK			1.27 H	66	71.60	32.20
2	*2462.00	91.2 AV			1.27 H	66	59.00	32.20
3	2483.50	69.0 PK	74.0	-5.0	1.27 H	66	36.80	32.20
4	2483.50	49.1 AV	54.0	-4.9	1.27 H	66	16.90	32.20
5	4924.00	47.0 PK	74.0	-27.0	1.46 H	113	8.20	38.80
6	4924.00	32.9 AV	54.0	-21.1	1.46 H	113	-5.90	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.5 PK			1.60 V	26	79.30	32.20
2	*2462.00	99.4 AV			1.60 V	26	67.20	32.20
3	2483.50	72.6 PK	74.0	-1.4	1.60 V	26	40.40	32.20
4	2483.50	52.0 AV	54.0	-2.0	1.60 V	26	19.80	32.20
5	4924.00	47.2 PK	74.0	-26.8	1.24 V	306	8.40	38.80
6	4924.00	33.0 AV	54.0	-21.0	1.24 V	306	-5.80	38.80

REMARKS:

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

802.11n (40MHz)

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

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	1.00 H	104	27.90	31.90
2	2390.00	47.3 AV	54.0	-6.7	1.00 H	104	15.40	31.90
3	*2422.00	93.3 PK			1.00 H	104	61.30	32.00
4	*2422.00	82.5 AV			1.00 H	104	50.50	32.00
5	4844.00	45.9 PK	74.0	-28.1	1.20 H	42	7.20	38.70
6	4844.00	33.8 AV	54.0	-20.2	1.20 H	42	-4.90	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.9 PK	74.0	-7.1	1.00 V	24	35.00	31.90
2	2390.00	52.7 AV	54.0	-1.3	1.00 V	24	20.80	31.90
3	*2422.00	103.9 PK			1.00 V	24	71.90	32.00
4	*2422.00	92.7 AV			1.00 V	24	60.70	32.00
5	4844.00	47.4 PK	74.0	-26.6	1.27 V	88	8.70	38.70
6	4844.00	34.5 AV	54.0	-19.5	1.27 V	88	-4.20	38.70

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.4 PK	74.0	-10.6	1.00 H	122	31.50	31.90
2	2390.00	48.0 AV	54.0	-6.0	1.00 H	122	16.10	31.90
3	*2437.00	99.0 PK			1.00 H	122	66.90	32.10
4	*2437.00	86.3 AV			1.00 H	122	54.20	32.10
5	4874.00	47.0 PK	74.0	-27.0	1.23 H	63	8.30	38.70
6	4874.00	35.0 AV	54.0	-19.0	1.23 H	63	-3.70	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.2 PK	74.0	-5.8	1.00 V	3	36.30	31.90
2	2390.00	52.9 AV	54.0	-1.1	1.00 V	3	21.00	31.90
3	*2437.00	108.9 PK			1.00 V	3	76.80	32.10
4	*2437.00	96.5 AV			1.00 V	3	64.40	32.10
5	4874.00	48.2 PK	74.0	-25.8	1.19 V	269	9.50	38.70
6	4874.00	35.3 AV	54.0	-18.7	1.19 V	269	-3.40	38.70

REMARKS:

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

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

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	96.0 PK			1.12 H	123	63.90	32.10
2	*2452.00	83.6 AV			1.12 H	123	51.50	32.10
3	2483.50	60.1 PK	74.0	-13.9	1.12 H	123	27.90	32.20
4	2483.50	45.5 AV	54.0	-8.5	1.12 H	123	13.30	32.20
5	4904.00	48.0 PK	74.0	-26.0	1.34 H	80	9.20	38.80
6	4904.00	35.0 AV	54.0	-19.0	1.34 H	80	-3.80	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.0 PK			1.12 V	37	72.90	32.10
2	*2452.00	92.8 AV			1.12 V	37	60.70	32.10
3	2483.50	67.1 PK	74.0	-6.9	1.12 V	37	34.90	32.20
4	2483.50	52.7 AV	54.0	-1.3	1.12 V	37	20.50	32.20
5	4904.00	48.2 PK	74.0	-25.8	1.11 V	125	9.40	38.80
6	4904.00	35.6 AV	54.0	-18.4	1.11 V	125	-3.20	38.80

REMARKS:

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

TEST MODE C 2

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	54.8 PK	74.0	-19.2	1.31 H	100	22.90	31.90
2	2390.00	43.0 AV	54.0	-11.0	1.31 H	100	11.10	31.90
3	*2412.00	98.2 PK			1.31 H	101	66.20	32.00
4	*2412.00	94.4 AV			1.31 H	101	62.40	32.00
5	4824.00	44.3 PK	74.0	-29.7	1.00 H	97	39.50	4.80
6	4824.00	33.5 AV	54.0	-20.5	1.00 H	97	28.70	4.80
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	2390.00	56.1 PK	74.0	-17.9	1.00 V	122	24.20	31.90
2	2390.00	47.4 AV	54.0	-6.6	1.00 V	122	15.50	31.90
3	*2412.00	108.6 PK			1.00 V	116	76.60	32.00
4	*2412.00	105.3 AV			1.00 V	116	73.30	32.00
5	4824.00	45.8 PK	74.0	-28.2	1.00 V	299	41.00	4.80
6	4824.00	34.8 AV	54.0	-19.2	1.00 V	299	30.00	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	103.0 PK			1.34 H	105	71.00	32.00
2	*2437.00	99.3 AV			1.34 H	105	67.30	32.00
3	4874.00	46.7 PK	74.0	-27.3	1.00 H	103	41.70	5.00
4	4874.00	34.8 AV	54.0	-19.2	1.00 H	103	29.80	5.00
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	*2437.00	114.2 PK			1.46 V	146	82.20	32.00
2	*2437.00	110.8 AV			1.46 V	146	78.80	32.00
3	4874.00	50.2 PK	74.0	-23.8	1.00 V	306	45.20	5.00
4	4874.00	45.5 AV	54.0	-8.5	1.00 V	306	40.50	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	98.3 PK			1.30 H	104	66.10	32.20
2	*2462.00	94.8 AV			1.30 H	104	62.60	32.20
3	2483.50	54.7 PK	74.0	-19.3	1.31 H	106	22.40	32.30
4	2483.50	42.5 AV	54.0	-11.5	1.31 H	106	10.20	32.30
5	4924.00	44.9 PK	74.0	-29.1	1.00 H	111	39.90	5.00
6	4924.00	34.2 AV	54.0	-19.8	1.00 H	111	29.20	5.00
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	*2462.00	109.0 PK			1.47 V	146	76.80	32.20
2	*2462.00	105.3 AV			1.47 V	146	73.10	32.20
3	2483.50	57.1 PK	74.0	-16.9	1.46 V	148	24.80	32.30
4	2483.50	47.8 AV	54.0	-6.2	1.46 V	148	15.50	32.30
5	4924.00	47.6 PK	74.0	-26.4	1.00 V	316	42.60	5.00
6	4924.00	39.4 AV	54.0	-14.6	1.00 V	316	34.40	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	56.2 PK	74.0	-17.8	1.30 H	102	24.30	31.90
2	2390.00	44.6 AV	54.0	-9.4	1.30 H	102	12.70	31.90
3	*2412.00	99.4 PK			1.30 H	105	67.40	32.00
4	*2412.00	90.1 AV			1.30 H	105	58.10	32.00
5	4824.00	45.7 PK	74.0	-28.3	1.00 H	77	40.90	4.80
6	4824.00	32.3 AV	54.0	-21.7	1.00 H	77	27.50	4.80
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	2390.00	65.2 PK	74.0	-8.8	1.00 V	117	33.30	31.90
2	2390.00	50.8 AV	54.0	-3.2	1.00 V	117	18.90	31.90
3	*2412.00	110.2 PK			1.00 V	137	78.20	32.00
4	*2412.00	100.8 AV			1.00 V	137	68.80	32.00
5	4824.00	46.5 PK	74.0	-27.5	1.00 V	288	41.70	4.80
6	4824.00	33.0 AV	54.0	-21.0	1.00 V	288	28.20	4.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	103.3 PK			1.30 H	101	71.30	32.00
2	*2437.00	94.0 AV			1.30 H	101	62.00	32.00
3	4874.00	47.7 PK	74.0	-26.3	1.00 H	70	42.70	5.00
4	4874.00	34.3 AV	54.0	-19.7	1.00 H	70	29.30	5.00
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	*2437.00	114.1 PK			1.00 V	131	82.10	32.00
2	*2437.00	104.7 AV			1.00 V	131	72.70	32.00
3	4874.00	48.8 PK	74.0	-25.2	1.00 V	302	43.80	5.00
4	4874.00	36.0 AV	54.0	-18.0	1.00 V	302	31.00	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	99.1 PK			1.26 H	103	66.90	32.20
2	*2462.00	89.8 AV			1.26 H	103	57.60	32.20
3	2483.50	56.1 PK	74.0	-17.9	1.25 H	100	23.80	32.30
4	2483.50	43.3 AV	54.0	-10.7	1.25 H	100	11.00	32.30
5	4924.00	45.6 PK	74.0	-28.4	1.00 H	69	40.60	5.00
6	4924.00	32.1 AV	54.0	-21.9	1.00 H	69	27.10	5.00
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	*2462.00	109.4 PK			1.00 V	139	77.20	32.20
2	*2462.00	99.9 AV			1.00 V	139	67.70	32.20
3	2483.50	64.7 PK	74.0	-9.3	1.00 V	139	32.40	32.30
4	2483.50	49.8 AV	54.0	-4.2	1.00 V	139	17.50	32.30
5	4924.00	46.5 PK	74.0	-27.5	1.00 V	274	41.50	5.00
6	4924.00	33.0 AV	54.0	-21.0	1.00 V	274	28.00	5.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

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	1.00 H	216	28.00	31.90
2	2390.00	46.6 AV	54.0	-7.4	1.00 H	216	14.70	31.90
3	*2412.00	101.2 PK			1.00 H	214	69.20	32.00
4	*2412.00	90.4 AV			1.00 H	214	58.40	32.00
5	4824.00	44.2 PK	74.0	-29.8	1.00 H	320	5.60	38.60
6	4824.00	31.0 AV	54.0	-23.0	1.00 H	320	-7.60	38.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.8 PK	74.0	-7.2	1.00 V	268	34.90	31.90
2	2390.00	53.0 AV	54.0	-1.0	1.00 V	268	21.10	31.90
3	*2412.00	112.0 PK			1.00 V	267	80.00	32.00
4	*2412.00	99.5 AV			1.00 V	267	67.50	32.00
5	4824.00	44.8 PK	74.0	-29.2	1.00 V	90	6.20	38.60
6	4824.00	31.7 AV	54.0	-22.3	1.00 V	90	-6.90	38.60

REMARKS:

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

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

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	106.5 PK			1.00 H	210	74.40	32.10
2	*2437.00	95.7 AV			1.00 H	210	63.60	32.10
3	4874.00	45.7 PK	74.0	-28.3	1.00 H	325	7.00	38.70
4	4874.00	33.0 AV	54.0	-21.0	1.00 H	325	-5.70	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.4 PK			1.00 V	255	85.30	32.10
2	*2437.00	106.2 AV			1.00 V	255	74.10	32.10
3	4874.00	46.1 PK	74.0	-27.9	1.00 V	95	7.40	38.70
4	4874.00	33.5 AV	54.0	-20.5	1.00 V	95	-5.20	38.70

REMARKS:

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

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

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	101.8 PK			1.00 H	214	69.60	32.20
2	*2462.00	90.8 AV			1.00 H	214	58.60	32.20
3	2483.50	61.4 PK	74.0	-12.6	1.00 H	211	29.20	32.20
4	2483.50	47.1 AV	54.0	-6.9	1.00 H	211	14.90	32.20
5	4924.00	44.0 PK	74.0	-30.0	1.00 H	311	5.20	38.80
6	4924.00	30.8 AV	54.0	-23.2	1.00 H	311	-8.00	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.2 PK			1.00 V	275	79.00	32.20
2	*2462.00	100.1 AV			1.00 V	275	67.90	32.20
3	2483.50	69.2 PK	74.0	-4.8	1.00 V	282	37.00	32.20
4	2483.50	53.0 AV	54.0	-1.0	1.00 V	282	20.80	32.20
5	4924.00	44.5 PK	74.0	-29.5	1.00 V	82	5.70	38.80
6	4924.00	31.4 AV	54.0	-22.6	1.00 V	82	-7.40	38.80

REMARKS:

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

802.11n (40MHz)

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

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	1.00 H	215	28.00	31.90
2	2390.00	46.6 AV	54.0	-7.4	1.00 H	215	14.70	31.90
3	*2422.00	95.7 PK			1.00 H	213	63.70	32.00
4	*2422.00	84.3 AV			1.00 H	213	52.30	32.00
5	4844.00	43.8 PK	74.0	-30.2	1.00 H	333	5.10	38.70
6	4844.00	30.8 AV	54.0	-23.2	1.00 H	333	-7.90	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.4 PK	74.0	-8.6	1.00 V	273	33.50	31.90
2	2390.00	53.0 AV	54.0	-1.0	1.00 V	273	21.10	31.90
3	*2422.00	104.7 PK			1.00 V	270	72.70	32.00
4	*2422.00	93.0 AV			1.00 V	270	61.00	32.00
5	4844.00	44.6 PK	74.0	-29.4	1.00 V	110	5.90	38.70
6	4844.00	31.7 AV	54.0	-22.3	1.00 V	110	-7.00	38.70

REMARKS:

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

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

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	99.9 PK			1.00 H	210	67.80	32.10
2	*2437.00	88.5 AV			1.00 H	210	56.40	32.10
3	4874.00	44.6 PK	74.0	-29.4	1.00 H	339	5.90	38.70
4	4874.00	31.5 AV	54.0	-22.5	1.00 H	339	-7.20	38.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.0 PK			1.00 V	270	76.90	32.10
2	*2437.00	97.8 AV			1.00 V	270	65.70	32.10
3	4874.00	45.3 PK	74.0	-28.7	1.00 V	126	6.60	38.70
4	4874.00	32.5 AV	54.0	-21.5	1.00 V	126	-6.20	38.70

REMARKS:

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

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

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	94.2 PK			1.00 H	215	62.10	32.10
2	*2452.00	83.6 AV			1.00 H	215	51.50	32.10
3	2483.50	61.6 PK	74.0	-12.4	1.00 H	211	29.40	32.20
4	2483.50	47.2 AV	54.0	-6.8	1.00 H	211	15.00	32.20
5	4904.00	43.6 PK	74.0	-30.4	1.00 H	328	4.80	38.80
6	4904.00	30.5 AV	54.0	-23.5	1.00 H	328	-8.30	38.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	104.3 PK			1.00 V	276	72.20	32.10
2	*2452.00	92.7 AV			1.00 V	276	60.60	32.10
3	2483.50	68.5 PK	74.0	-5.5	1.00 V	263	36.30	32.20
4	2483.50	52.9 AV	54.0	-1.1	1.00 V	263	20.70	32.20
5	4904.00	44.3 PK	74.0	-29.7	1.00 V	104	5.50	38.80
6	4904.00	31.2 AV	54.0	-22.8	1.00 V	104	-7.60	38.80

REMARKS:

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

BELOW 1GHz WORST-CASE DATA：

TEST MODE A1

802.11g

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

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	103.64	31.5 QP	43.5	-12.0	1.50 H	81	21.30	10.20
2	198.71	32.3 QP	43.5	-11.2	2.00 H	16	21.70	10.60
3	289.91	34.3 QP	46.0	-11.7	1.00 H	92	20.30	14.00
4	332.60	31.9 QP	46.0	-14.1	1.00 H	296	16.70	15.20
5	398.58	35.0 QP	46.0	-11.0	2.00 H	257	18.10	16.90
6	421.86	32.7 QP	46.0	-13.3	1.00 H	114	15.30	17.40
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	97.81	30.5 QP	43.5	-13.0	2.00 V	102	20.80	9.70
2	156.03	30.0 QP	43.5	-13.5	1.00 V	274	16.30	13.70
3	198.71	31.4 QP	43.5	-12.1	2.00 V	12	20.80	10.60
4	289.91	33.3 QP	46.0	-12.7	1.50 V	355	19.30	14.00
5	357.83	30.4 QP	46.0	-15.6	1.00 V	261	14.50	15.90
6	421.86	30.0 QP	46.0	-16.0	1.00 V	243	12.60	17.40

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

TEST MODE A2

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Brad Tung

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	103.64	30.7 QP	43.5	-12.8	1.50 H	109	20.50	10.20
2	157.97	29.8 QP	43.5	-13.7	1.00 H	127	16.10	13.70
3	198.71	30.8 QP	43.5	-12.7	1.25 H	83	20.20	10.60
4	249.17	30.0 QP	46.0	-16.0	1.00 H	85	17.30	12.70
5	328.72	33.0 QP	46.0	-13.0	2.00 H	263	17.90	15.10
6	425.74	37.3 QP	46.0	-8.7	1.00 H	85	19.80	17.50
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	51.24	26.4 QP	40.0	-13.6	1.00 V	210	12.90	13.50
2	90.05	32.0 QP	43.5	-11.5	2.00 V	6	22.90	9.10
3	198.71	31.8 QP	43.5	-11.7	1.00 V	188	21.20	10.60
4	334.54	32.4 QP	46.0	-13.6	1.50 V	6	17.10	15.30
5	400.52	32.0 QP	46.0	-14.0	1.50 V	96	15.00	17.00
6	423.80	35.0 QP	46.0	-11.0	1.00 V	154	17.50	17.50

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

TEST MODE B1

802.11n (20MHz)

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

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	64.83	29.8 QP	40.0	-10.2	1.25 H	115	17.70	12.10
2	119.16	29.9 QP	43.5	-13.6	1.00 H	289	18.10	11.80
3	161.85	29.8 QP	43.5	-13.7	1.00 H	126	16.20	13.60
4	198.71	31.7 QP	43.5	-11.8	1.50 H	15	21.10	10.60
5	280.21	29.8 QP	46.0	-16.2	2.00 H	98	16.10	13.70
6	332.60	32.8 QP	46.0	-13.2	1.00 H	255	17.60	15.20
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	80.35	29.1 QP	40.0	-10.9	1.25 V	6	20.20	8.90
2	156.03	29.8 QP	43.5	-13.7	1.25 V	301	16.10	13.70
3	198.71	31.7 QP	43.5	-11.8	1.50 V	30	21.10	10.60
4	280.21	30.2 QP	46.0	-15.8	1.00 V	6	16.50	13.70
5	332.60	32.8 QP	46.0	-13.2	1.00 V	264	17.60	15.20
6	375.29	29.7 QP	46.0	-16.3	1.00 V	117	13.40	16.30

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

TEST MODE B2

802.11n (20MHz)

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

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	80.35	28.3 QP	40.0	-11.7	1.50 H	336	19.40	8.90
2	161.85	30.9 QP	43.5	-12.6	1.00 H	131	17.30	13.60
3	198.71	31.7 QP	43.5	-11.8	2.00 H	17	21.10	10.60
4	280.21	30.5 QP	46.0	-15.5	2.00 H	102	16.80	13.70
5	332.60	32.1 QP	46.0	-13.9	1.00 H	247	16.90	15.20
6	375.29	29.4 QP	46.0	-16.6	1.00 H	114	13.10	16.30
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	39.60	29.9 QP	40.0	-10.1	1.00 V	88	15.90	14.00
2	53.18	29.1 QP	40.0	-10.9	1.50 V	153	15.80	13.30
3	198.71	32.0 QP	43.5	-11.5	1.00 V	161	21.40	10.60
4	375.29	27.9 QP	46.0	-18.1	1.00 V	41	11.60	16.30
5	466.49	28.9 QP	46.0	-17.1	1.25 V	317	10.50	18.40
6	734.27	30.0 QP	46.0	-16.0	1.50 V	29	6.40	23.60

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

TEST MODE C1

802.11n (20MHz)

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

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	93.93	31.6 QP	43.5	-11.9	1.25 H	348	22.20	9.40
2	198.71	32.5 QP	43.5	-11.0	2.00 H	1	21.90	10.60
3	332.60	33.3 QP	46.0	-12.7	1.00 H	8	18.10	15.20
4	400.52	37.1 QP	46.0	-8.9	1.00 H	179	20.10	17.00
5	423.80	34.0 QP	46.0	-12.0	1.50 H	212	16.50	17.50
6	868.15	35.3 QP	46.0	-10.7	1.00 H	146	9.60	25.70
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	45.42	27.2 QP	40.0	-12.8	1.25 V	263	13.10	14.10
2	90.10	32.5 QP	43.5	-11.0	1.50 V	241	23.40	9.10
3	334.53	34.5 QP	46.0	-11.5	1.00 V	275	19.20	15.30
4	400.03	34.1 QP	46.0	-11.9	2.00 V	83	17.10	17.00
5	466.50	27.8 QP	46.0	-18.2	2.00 V	10	9.40	18.40
6	999.99	39.5 QP	54.0	-14.5	1.00 V	49	12.70	26.80

REMARKS:

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

TEST MODE C2

802.11n (20MHz)

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

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	64.83	30.7 QP	40.0	-9.3	1.00 H	299	18.60	12.10
2	119.16	30.2 QP	43.5	-13.3	1.00 H	72	18.40	11.80
3	198.71	32.1 QP	43.5	-11.4	2.00 H	87	21.50	10.60
4	332.60	37.1 QP	46.0	-8.9	1.00 H	233	21.90	15.20
5	338.42	33.1 QP	46.0	-12.9	1.00 H	28	17.70	15.40
6	423.80	37.0 QP	46.0	-9.0	1.50 H	194	19.50	17.50
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	51.24	28.5 QP	40.0	-11.5	2.00 V	150	15.00	13.50
2	90.05	31.9 QP	43.5	-11.6	1.50 V	291	22.80	9.10
3	198.71	30.7 QP	43.5	-12.8	1.00 V	158	20.10	10.60
4	332.60	33.9 QP	46.0	-12.1	1.00 V	333	18.70	15.20
5	398.58	31.5 QP	46.0	-14.5	1.25 V	119	14.60	16.90
6	425.74	31.9 QP	46.0	-14.1	1.00 V	7	14.40	17.50

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

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

Test Date: Jun. 07 ~ Jun. 15, 2013

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
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 02, 2012	Jul. 01, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 04, 2013	Feb. 03, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

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

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

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

4.2.3 TEST PROCEDURES

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

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

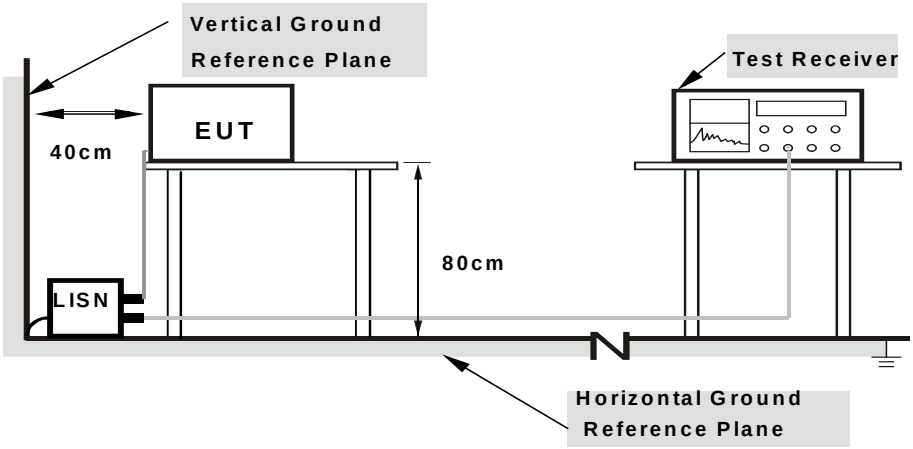
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

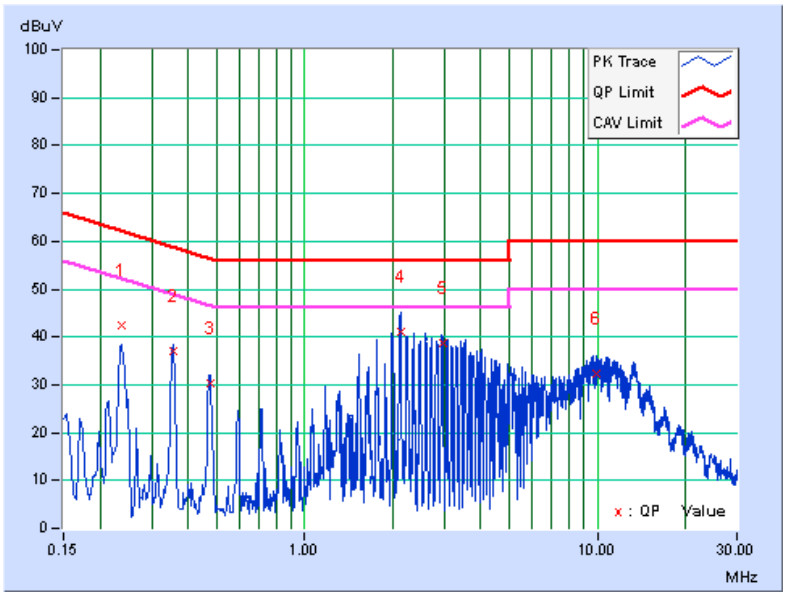
TEST MODE A 1

CONDUCTED WORST-CASE DATA：802.11g

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23723	0.16	42.39	35.52	42.55	35.68	62.19	52.19	-19.64	-16.51
2	0.35407	0.19	36.93	36.31	37.12	36.50	58.87	48.87	-21.75	-12.37
3	0.47400	0.20	30.25	28.95	30.45	29.15	56.44	46.44	-25.99	-17.29
4	2.12600	0.27	40.91	29.92	41.18	30.19	56.00	46.00	-14.82	-15.81
5	2.95200	0.32	38.44	30.37	38.76	30.69	56.00	46.00	-17.24	-15.31
6	9.97800	0.69	31.47	19.45	32.16	20.14	60.00	50.00	-27.84	-29.86

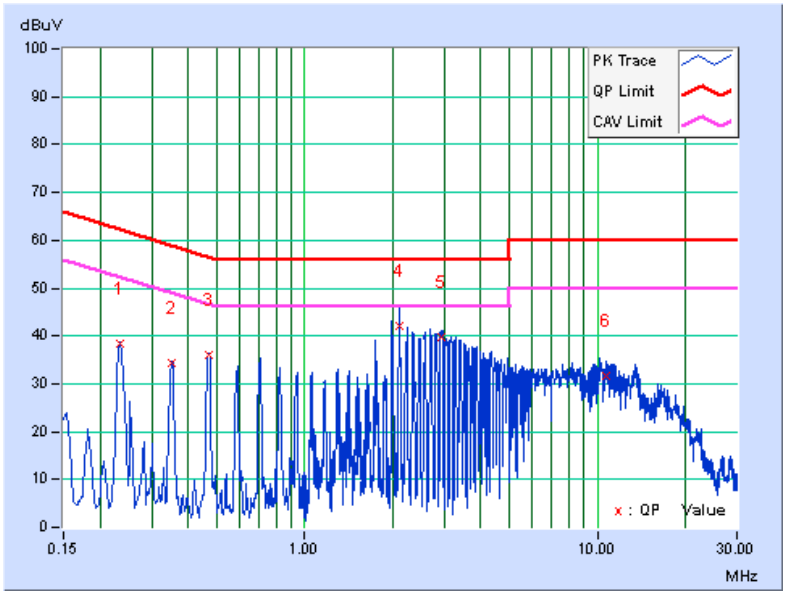
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23412	0.21	38.10	36.82	38.31	37.03	62.30	52.30	-23.99	-15.27
2	0.35128	0.25	33.99	32.83	34.24	33.08	58.93	48.93	-24.70	-15.86
3	0.47000	0.26	35.80	35.12	36.06	35.38	56.51	46.51	-20.45	-11.13
4	2.10600	0.32	41.73	30.37	42.05	30.69	56.00	46.00	-13.95	-15.31
5	2.93200	0.36	39.31	31.03	39.67	31.39	56.00	46.00	-16.33	-14.61
6	10.77000	0.66	30.88	19.16	31.54	19.82	60.00	50.00	-28.46	-30.18

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.



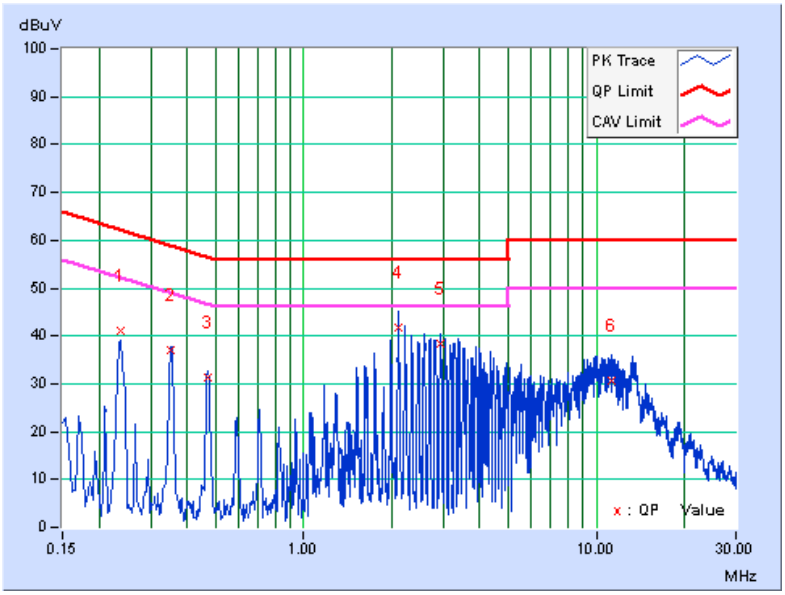
TEST MODE A 2

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

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23785	0.16	41.05	33.32	41.21	33.48	62.17	52.17	-20.96	-18.69
2	0.35313	0.19	36.83	36.02	37.02	36.21	58.89	48.89	-21.87	-12.68
3	0.47000	0.20	31.14	30.48	31.34	30.68	56.51	46.51	-25.17	-15.83
4	2.11000	0.27	41.60	31.13	41.87	31.40	56.00	46.00	-14.13	-14.60
5	2.94200	0.32	38.12	29.70	38.44	30.02	56.00	46.00	-17.56	-15.98
6	11.31000	0.77	29.85	18.71	30.62	19.48	60.00	50.00	-29.38	-30.52

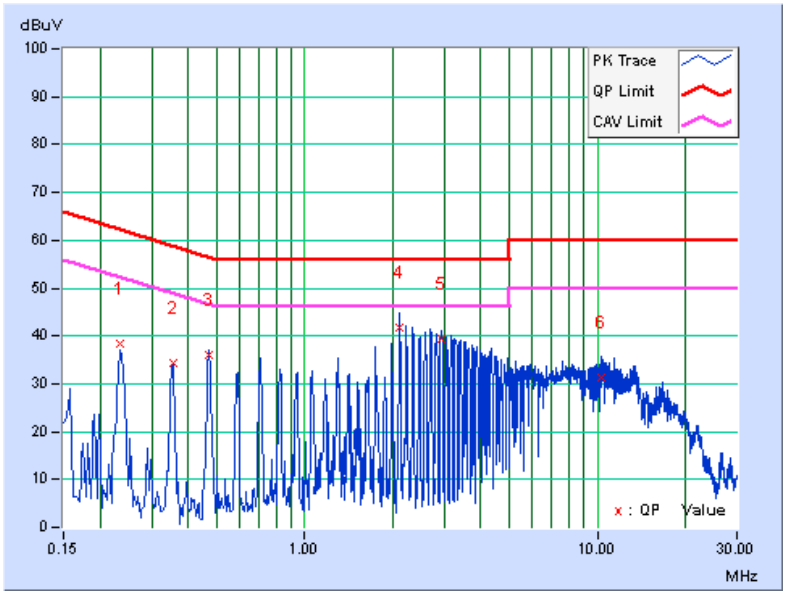
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23412	0.21	38.05	36.75	38.26	36.96	62.30	52.30	-24.04	-15.34
2	0.35407	0.25	34.15	32.32	34.40	32.57	58.87	48.87	-24.47	-16.30
3	0.47000	0.26	35.83	35.19	36.09	35.45	56.51	46.51	-20.42	-11.06
4	2.11400	0.32	41.28	29.54	41.60	29.86	56.00	46.00	-14.40	-16.14
5	2.94100	0.36	39.01	30.90	39.37	31.26	56.00	46.00	-16.63	-14.74
6	10.35000	0.64	30.75	19.31	31.39	19.95	60.00	50.00	-28.61	-30.05

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.



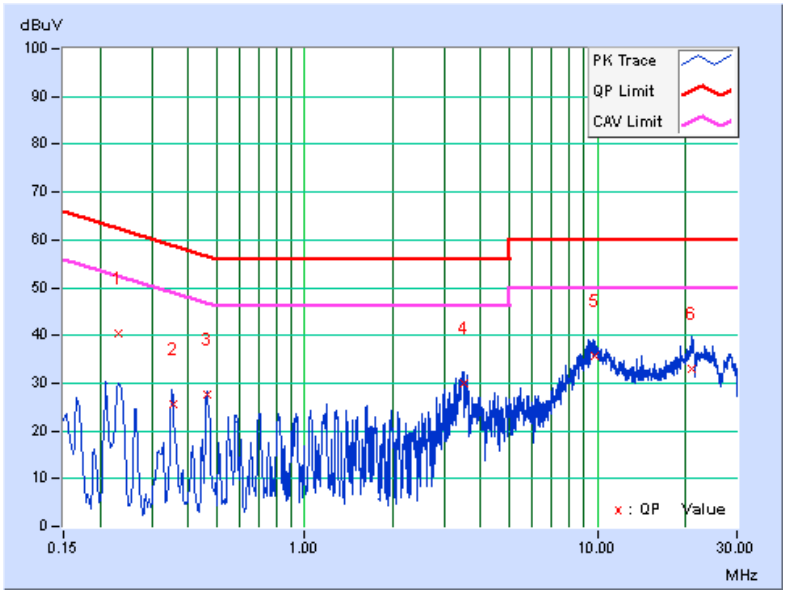
TEST MODE B 1

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

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.22985	0.17	40.18	29.57	40.35	29.74	62.46	52.46	-22.10	-22.71
2	0.35400	0.21	25.32	13.87	25.53	14.08	58.87	48.87	-33.33	-34.78
3	0.46200	0.23	27.36	22.43	27.59	22.66	56.66	46.66	-29.06	-23.99
4	3.48526	0.37	29.56	19.28	29.93	19.65	56.00	46.00	-26.07	-26.35
5	9.78200	0.71	34.93	29.93	35.64	30.64	60.00	50.00	-24.36	-19.36
6	20.95000	1.28	31.78	26.51	33.06	27.79	60.00	50.00	-26.94	-22.21

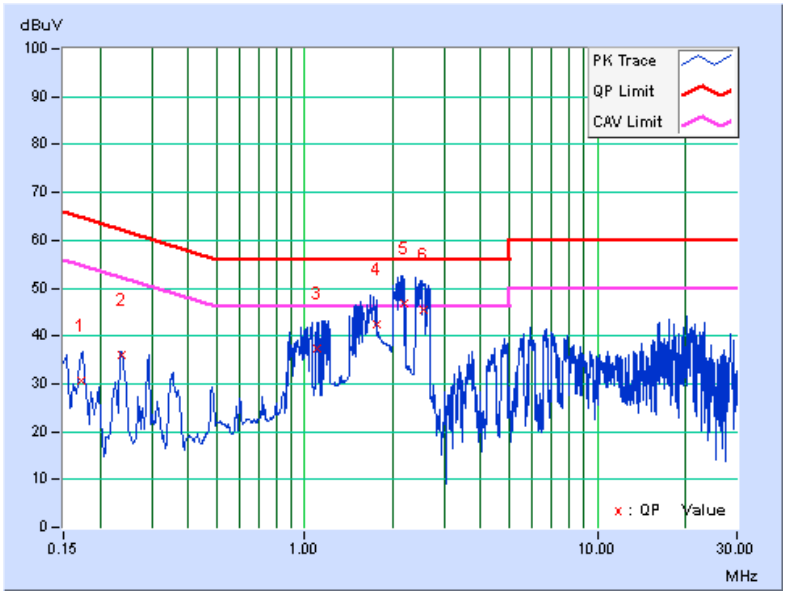
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17157	0.17	30.51	22.17	30.68	22.34	64.88	54.88	-34.21	-32.55
2	0.23598	0.18	36.01	25.04	36.19	25.22	62.24	52.24	-26.04	-27.01
3	1.09632	0.25	36.98	23.40	37.23	23.65	56.00	46.00	-18.77	-22.35
4	1.75690	0.27	42.12	31.59	42.39	31.86	56.00	46.00	-13.61	-14.14
5	**2.18057**	**0.29**	**46.50**	**33.18**	**46.79**	**33.47**	**56.00**	**46.00**	**-9.21**	**-12.53**
6	2.53800	0.31	45.07	31.50	45.38	31.81	56.00	46.00	-10.62	-14.19

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.



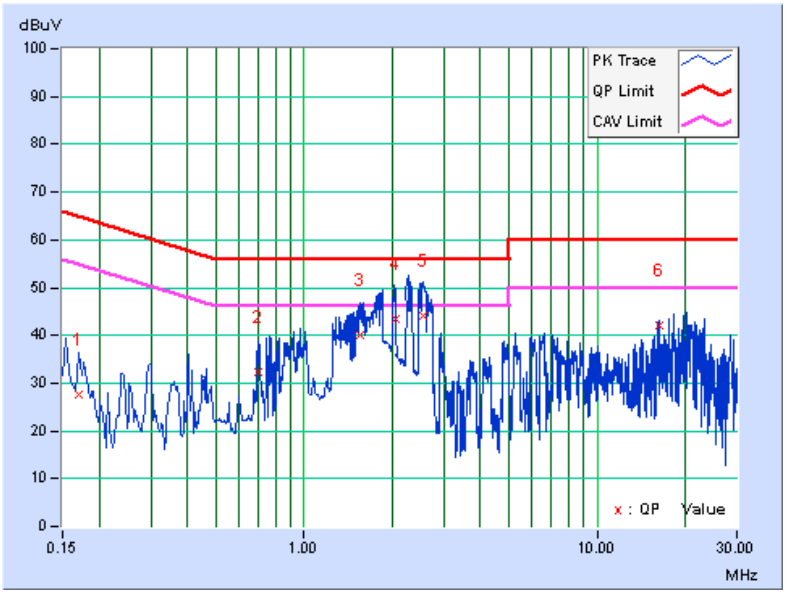
TEST MODE B 2

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

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16932	0.16	27.57	18.00	27.73	18.16	64.99	54.99	-37.27	-36.84
2	0.69502	0.24	32.19	20.20	32.43	20.44	56.00	46.00	-23.57	-25.56
3	1.54412	0.27	39.78	28.50	40.05	28.77	56.00	46.00	-15.95	-17.23
4	2.04255	0.29	43.02	33.93	43.31	34.22	56.00	46.00	-12.69	-11.78
5	2.53800	0.32	43.85	31.07	44.17	31.39	56.00	46.00	-11.83	-14.61
6	16.22600	1.03	41.13	38.46	42.16	39.49	60.00	50.00	-17.84	-10.51

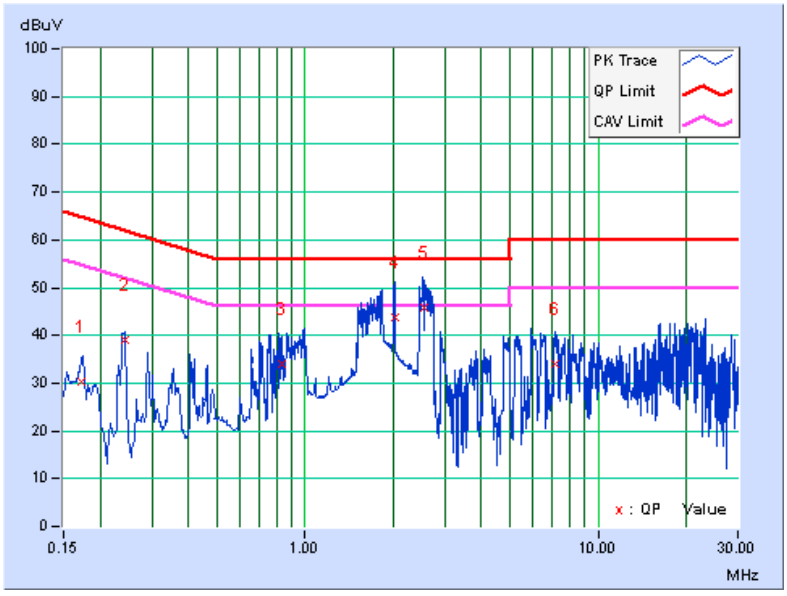
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17157	0.17	30.30	21.19	30.47	21.36	64.88	54.88	-34.42	-33.53
2	0.24164	0.18	39.03	30.69	39.21	30.87	62.04	52.04	-22.83	-21.17
3	0.82919	0.25	33.72	22.22	33.97	22.47	56.00	46.00	-22.03	-23.53
4	2.01800	0.28	43.38	33.78	43.66	34.06	56.00	46.00	-12.34	-11.94
5	2.54200	0.31	45.37	31.45	45.68	31.76	56.00	46.00	-10.32	-14.24
6	7.09848	0.49	33.56	27.86	34.05	28.35	60.00	50.00	-25.95	-21.65

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



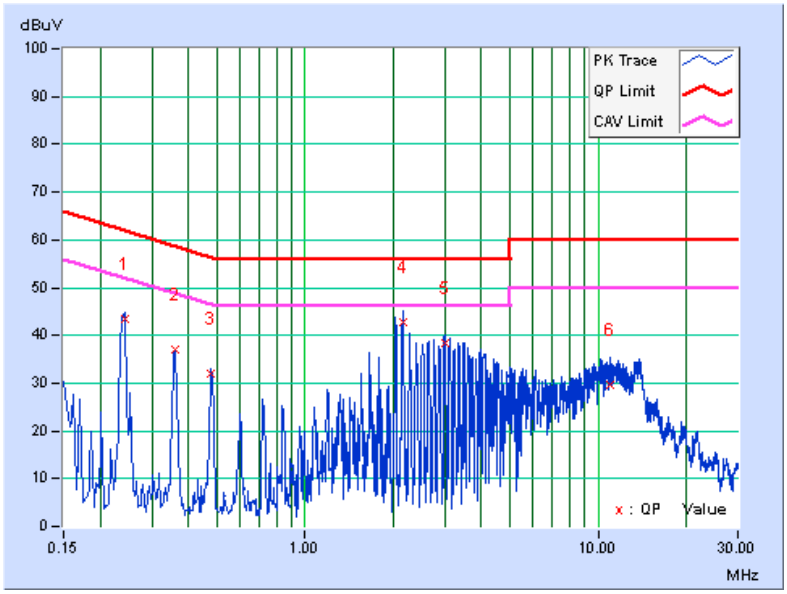
TEST MODE C 1

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

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.24200	0.16	43.17	34.50	43.33	34.66	62.03	52.03	-18.70	-17.37
2	0.35876	0.19	36.86	35.52	37.05	35.71	58.76	48.76	-21.71	-13.05
3	0.47810	0.20	31.65	30.08	31.85	30.28	56.37	46.37	-24.52	-16.09
4	2.15800	0.27	42.65	30.96	42.92	31.23	56.00	46.00	-13.08	-14.77
5	2.99000	0.32	37.97	29.57	38.29	29.89	56.00	46.00	-17.71	-16.11
6	10.95800	0.75	29.03	19.39	29.78	20.14	60.00	50.00	-30.22	-29.86

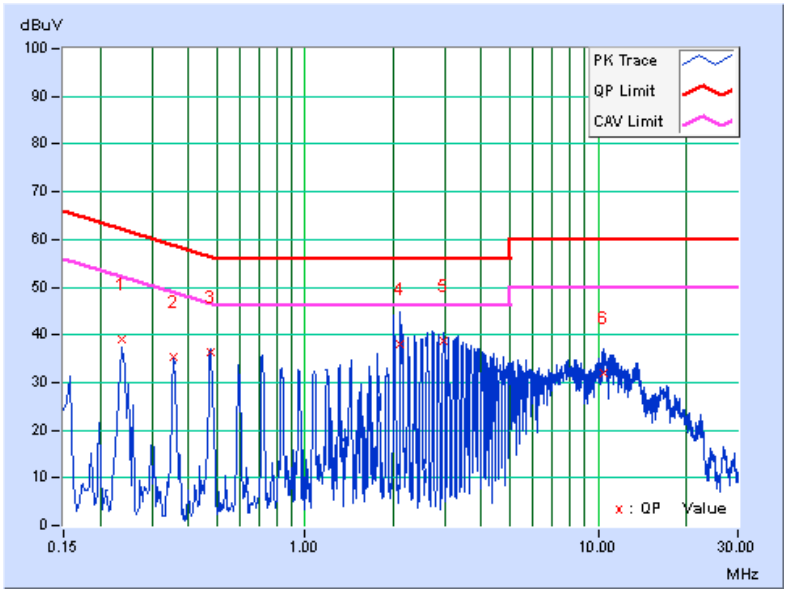
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23785	0.21	38.97	37.40	39.18	37.61	62.17	52.17	-22.99	-14.56
2	0.35800	0.25	35.26	33.55	35.51	33.80	58.77	48.77	-23.27	-14.98
3	0.47434	0.26	36.02	34.53	36.28	34.79	56.44	46.44	-20.16	-11.65
4	2.11800	0.32	37.80	28.70	38.12	29.02	56.00	46.00	-17.88	-16.98
5	2.98600	0.36	38.27	29.34	38.63	29.70	56.00	46.00	-17.37	-16.30
6	10.47000	0.65	31.49	20.60	32.14	21.25	60.00	50.00	-27.86	-28.75

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.



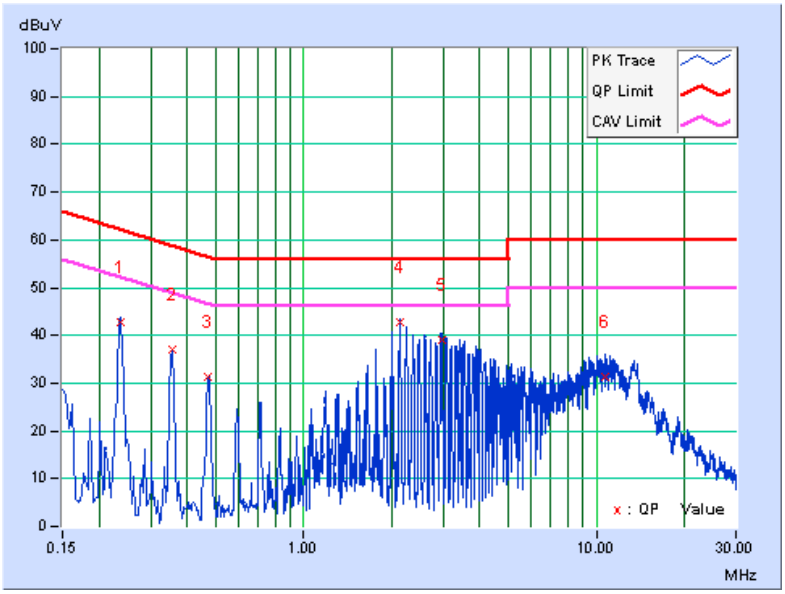
TEST MODE C 2

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

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23723	0.16	42.74	35.91	42.90	36.07	62.19	52.19	-19.29	-16.12
2	0.35594	0.19	36.93	35.86	37.12	36.05	58.82	48.82	-21.70	-12.77
3	0.47309	0.20	31.16	30.37	31.36	30.57	56.46	46.46	-25.10	-15.89
4	2.12200	0.27	42.41	31.51	42.68	31.78	56.00	46.00	-13.32	-14.22
5	2.95224	0.32	38.73	30.40	39.05	30.72	56.00	46.00	-16.95	-15.28
6	10.78200	0.74	30.48	19.54	31.22	20.28	60.00	50.00	-28.78	-29.72

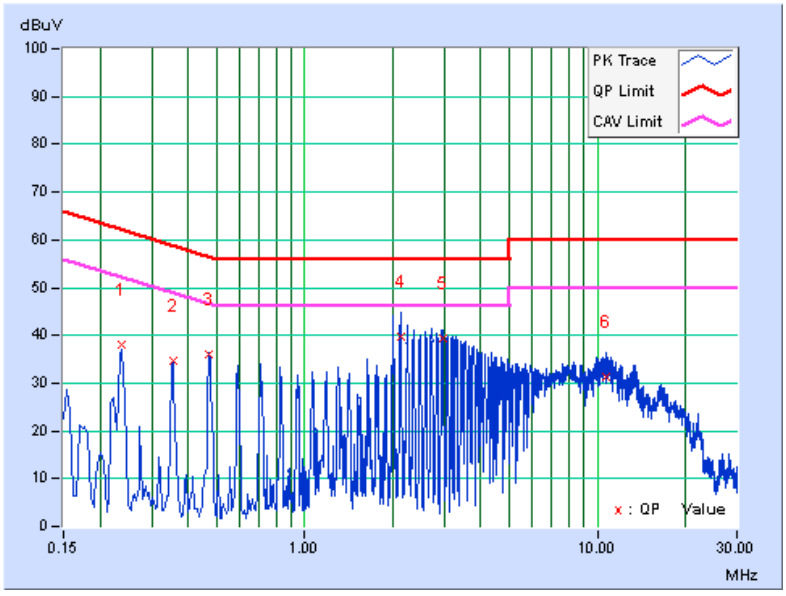
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23785	0.21	37.75	36.05	37.96	36.26	62.17	52.17	-24.21	-15.91
2	0.35407	0.25	34.45	33.44	34.70	33.69	58.87	48.87	-24.17	-15.18
3	0.47060	0.26	35.87	34.66	36.13	34.92	56.50	46.50	-20.37	-11.58
4	2.13000	0.32	39.34	27.85	39.66	28.17	56.00	46.00	-16.34	-17.83
5	2.96200	0.36	38.95	29.07	39.31	29.43	56.00	46.00	-16.69	-16.57
6	10.67400	0.65	30.79	19.19	31.44	19.84	60.00	50.00	-28.56	-30.16

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.

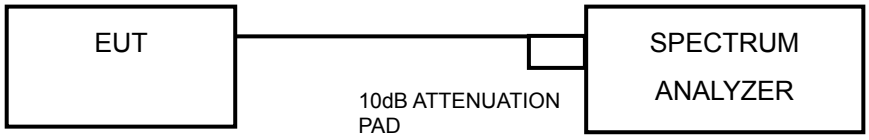


4.3 6dB BANDWIDTH MEASUREMENT

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

a. Set resolution bandwidth (RBW) = 100kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. 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 1

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	12.11	12.15	0.5	PASS
6	2437	12.15	12.14	0.5	PASS
11	2462	12.16	12.12	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.54	16.48	0.5	PASS
6	2437	16.56	16.50	0.5	PASS
11	2462	16.48	16.48	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.68	17.64	0.5	PASS
6	2437	17.68	17.78	0.5	PASS
11	2462	17.67	17.68	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	36.15	36.46	0.5	PASS
6	2437	36.44	36.47	0.5	PASS
9	2452	36.48	36.44	0.5	PASS

TEST MODE A 2

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	12.17	12.63	0.5	PASS
6	2437	11.17	12.62	0.5	PASS
11	2462	12.14	12.12	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.52	16.52	0.5	PASS
6	2437	16.47	16.52	0.5	PASS
11	2462	16.47	16.47	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.78	17.71	0.5	PASS
6	2437	17.67	17.67	0.5	PASS
11	2462	17.71	17.69	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	36.25	36.29	0.5	PASS
6	2437	35.84	36.46	0.5	PASS
9	2452	36.18	36.50	0.5	PASS

TEST MODE B 1

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	12.13	12.58	0.5	PASS
6	2437	12.19	12.15	0.5	PASS
11	2462	12.12	11.11	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.53	16.47	0.5	PASS
6	2437	16.48	16.46	0.5	PASS
11	2462	16.48	16.48	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.69	17.73	0.5	PASS
6	2437	17.70	17.67	0.5	PASS
11	2462	17.73	17.69	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	36.45	36.18	0.5	PASS
6	2437	36.47	36.43	0.5	PASS
9	2452	36.45	36.45	0.5	PASS

TEST MODE B 2

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	12.58	12.13	0.5	PASS
6	2437	12.64	13.05	0.5	PASS
11	2462	12.58	12.08	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.49	16.46	0.5	PASS
6	2437	16.47	16.47	0.5	PASS
11	2462	16.46	16.47	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.70	17.68	0.5	PASS
6	2437	17.70	17.66	0.5	PASS
11	2462	17.70	17.70	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	36.47	36.46	0.5	PASS
6	2437	36.42	36.48	0.5	PASS
9	2452	36.47	36.47	0.5	PASS

TEST MODE C 1

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	12.64	12.60	0.5	PASS
6	2437	12.14	12.58	0.5	PASS
11	2462	12.15	12.13	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.50	16.51	0.5	PASS
6	2437	16.48	16.48	0.5	PASS
11	2462	16.49	16.50	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.69	17.71	0.5	PASS
6	2437	17.70	17.67	0.5	PASS
11	2462	17.69	17.70	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	36.48	36.45	0.5	PASS
6	2437	36.48	36.48	0.5	PASS
9	2452	36.47	36.47	0.5	PASS

TEST MODE C 2

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	12.08	12.16	0.5	PASS
6	2437	12.14	12.15	0.5	PASS
11	2462	12.13	11.17	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.53	16.51	0.5	PASS
6	2437	16.52	16.47	0.5	PASS
11	2462	16.48	16.47	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.68	17.68	0.5	PASS
6	2437	17.70	17.66	0.5	PASS
11	2462	17.72	17.68	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	36.44	36.45	0.5	PASS
6	2437	36.42	36.48	0.5	PASS
9	2452	36.47	36.48	0.5	PASS

4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

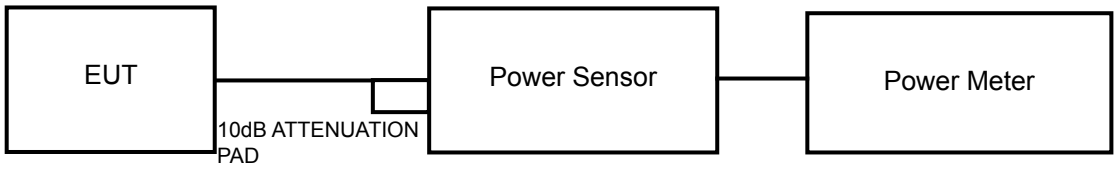
For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output v02 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 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 ≥ 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.

4.4.7 TEST RESULTS

TEST MODE A1

FOR PEAK POWER

802.11b

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	16.41	14.71	73.332	18.65	26.2	PASS
6	2437	20.61	20.91	238.390	23.77	26.2	PASS
11	2462	16.05	15.44	75.267	18.77	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

802.11g

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	21.51	19.80	237.078	23.75	26.2	PASS
6	2437	21.66	22.01	305.410	24.85	26.2	PASS
11	2462	22.00	21.60	303.033	24.81	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	20.99	21.93	281.558	24.50	26.2	PASS
6	2437	22.64	22.46	359.852	25.56	26.2	PASS
11	2462	22.32	22.62	353.418	25.48	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
3	2422	16.98	17.82	110.422	20.43	26.2	PASS
6	2437	22.94	23.06	399.091	26.01	26.2	PASS
9	2452	17.32	16.60	99.660	19.99	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

FOR AVERAGE POWER

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	14.04	12.67	43.844	16.42
6	2437	18.43	18.42	139.165	21.44
11	2462	13.52	12.45	40.070	16.03

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	12.85	11.92	34.835	15.42
6	2437	13.28	13.39	43.108	16.35
11	2462	13.74	13.20	44.552	16.49

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	11.83	12.86	34.561	15.39
6	2437	13.27	13.47	43.465	16.38
11	2462	13.06	13.54	42.824	16.32

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
3	2422	7.54	8.37	12.546	10.99
6	2437	13.28	13.69	44.669	16.50
9	2452	7.94	7.29	11.581	10.64

TEST MODE A2

FOR PEAK POWER

802.11b

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	16.54	16.42	88.935	19.49	26.2	PASS
6	2437	21.67	22.52	325.542	25.13	26.2	PASS
11	2462	20.13	19.55	193.196	22.86	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

802.11g

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	23.15	23.21	**415.949**	26.19	26.2	PASS
6	2437	23.46	22.80	412.366	26.15	26.2	PASS
11	2462	23.26	23.08	415.072	26.18	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	23.18	22.54	387.443	25.88	26.2	PASS
6	2437	23.20	22.31	379.146	25.79	26.2	PASS
11	2462	23.57	22.68	412.863	26.16	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
3	2422	19.88	20.98	222.589	23.48	26.2	PASS
6	2437	22.92	22.93	392.220	25.94	26.2	PASS
9	2452	22.31	22.42	344.798	25.38	26.2	PASS

Note: Directional gain =9.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(9.8-6) = 26.2dBm

FOR AVERAGE POWER

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	14.04	13.87	49.729	16.97
6	2437	19.25	19.84	180.523	22.57
11	2462	18.30	17.34	121.808	20.86

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	14.59	14.40	56.316	17.51
6	2437	14.74	13.63	52.852	17.23
11	2462	14.81	14.75	60.123	17.79

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	14.32	13.27	48.272	16.84
6	2437	14.41	14.24	54.152	17.34
11	2462	14.52	13.54	50.908	17.07

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
3	2422	11.85	12.14	31.679	15.01
6	2437	15.11	15.42	67.268	18.28
9	2452	13.47	14.42	49.902	16.98

TEST MODE B1

FOR PEAK POWER

802.11b

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	17.28	16.11	94.288	19.74	30	PASS
6	2437	22.03	20.68	276.538	24.42	30	PASS
11	2462	16.99	15.21	83.192	19.20	30	PASS

802.11g

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	20.62	21.22	247.779	23.94	30	PASS
6	2437	26.16	26.82	**893.887**	29.51	30	PASS
11	2462	22.24	20.68	284.444	24.54	30	PASS

802.11n (20MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	19.24	20.35	192.339	22.84	30	PASS
6	2437	25.45	25.82	732.696	28.65	30	PASS
11	2462	22.42	22.67	359.509	25.56	30	PASS

802.11n (40MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
3	2422	20.19	18.97	183.358	22.63	30	PASS
6	2437	23.12	23.23	415.494	26.19	30	PASS
9	2452	17.33	17.24	107.041	20.30	30	PASS

FOR AVERAGE POWER

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	14.82	13.44	52.419	17.19
6	2437	19.44	18.02	151.289	21.80
11	2462	14.57	12.49	46.384	16.66

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	13.14	12.68	39.141	15.93
6	2437	19.32	17.89	147.025	21.67
11	2462	13.93	12.66	43.167	16.35

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	11.88	12.91	34.960	15.44
6	2437	19.71	19.16	175.955	22.45
11	2462	13.92	14.62	53.633	17.29

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
3	2422	9.97	10.57	21.333	13.29
6	2437	15.01	15.56	67.671	18.30
9	2452	9.62	9.81	18.734	12.73

TEST MODE B2

FOR PEAK POWER

802.11b

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	15.52	15.55	71.537	18.55	30	PASS
6	2437	21.85	22.91	348.543	25.42	30	PASS
11	2462	20.21	20.62	220.299	23.43	30	PASS

802.11g

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	21.75	21.22	282.058	24.50	30	PASS
6	2437	25.89	26.81	867.883	29.38	30	PASS
11	2462	22.65	22.82	375.503	25.75	30	PASS

802.11n (20MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	20.46	22.36	283.360	24.52	30	PASS
6	2437	26.15	26.16	825.146	29.17	30	PASS
11	2462	23.41	24.66	511.695	27.09	30	PASS

802.11n (40MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
3	2422	19.88	20.98	222.589	23.48	30	PASS
6	2437	24.02	24.23	517.198	27.14	30	PASS
9	2452	22.31	22.42	344.798	25.38	30	PASS

FOR AVERAGE POWER

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	13.05	13.01	40.183	16.04
6	2437	19.41	20.24	192.979	22.86
11	2462	17.36	18.07	118.571	20.74

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	12.36	12.42	34.677	15.40
6	2437	19.04	19.49	169.088	22.28
11	2462	15.23	15.51	68.906	18.38

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	13.59	14.29	49.709	16.96
6	2437	20.52	21.11	241.842	23.84
11	2462	15.26	16.87	82.215	19.15

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
3	2422	11.85	12.14	31.679	15.01
6	2437	16.61	16.92	95.018	19.78
9	2452	13.49	14.42	50.005	16.99

TEST MODE C1

FOR PEAK POWER

802.11b

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	19.11	18.43	151.133	21.79	30	PASS
6	2437	22.03	20.68	276.538	24.42	30	PASS
11	2462	19.29	18.92	162.901	22.12	30	PASS

802.11g

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	22.60	22.24	349.464	25.43	30	PASS
6	2437	25.81	26.10	788.446	28.97	30	PASS
11	2462	22.58	22.31	351.350	25.46	30	PASS

802.11n (20MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	24.11	25.03	576.052	27.60	30	PASS
6	2437	25.45	25.82	732.696	28.65	30	PASS
11	2462	23.48	24.52	505.983	27.04	30	PASS

802.11n (40MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
3	2422	21.94	22.33	327.317	25.15	30	PASS
6	2437	24.79	25.07	622.667	27.94	30	PASS
9	2452	19.51	19.94	187.959	22.74	30	PASS

FOR AVERAGE POWER

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	15.83	15.47	73.519	18.66
6	2437	19.44	18.02	151.289	21.80
11	2462	16.22	15.83	80.161	19.04

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	14.77	13.85	54.258	17.34
6	2437	19.00	18.82	155.641	21.92
11	2462	14.84	14.02	55.714	17.46

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	16.33	17.20	95.435	19.80
6	2437	19.71	19.16	175.955	22.45
11	2462	15.78	16.91	86.935	19.39

802.11n (40MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
3	2422	12.66	13.41	40.378	16.06
6	2437	16.41	17.17	95.871	19.82
9	2452	10.69	11.32	25.274	14.03

TEST MODE C2

FOR PEAK POWER

802.11b

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	18.01	17.62	121.051	20.83	30	PASS
6	2437	22.44	22.39	348.768	25.43	30	PASS
11	2462	17.84	17.91	122.616	20.89	30	PASS

802.11g

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	24.01	23.59	480.328	26.82	30	PASS
6	2437	27.19	26.74	**995.663**	29.98	30	PASS
11	2462	24.27	23.45	488.610	26.89	30	PASS

802.11n (20MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	24.41	24.06	530.741	27.25	30	PASS
6	2437	26.15	26.16	825.146	29.17	30	PASS
11	2462	24.67	24.91	602.831	27.80	30	PASS

802.11n (40MHz)

CHAN.	FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
3	2422	21.72	22.02	307.815	24.88	30	PASS
6	2437	24.02	24.23	517.198	27.14	30	PASS
9	2452	20.89	20.54	235.984	23.73	30	PASS

FOR AVERAGE POWER

802.11b

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	15.42	14.99	66.384	18.22
6	2437	20.33	19.77	202.737	23.07
11	2462	15.23	15.22	66.609	18.24

802.11g

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	14.36	14.41	54.896	17.40
6	2437	19.33	18.87	162.794	22.12
11	2462	13.97	13.89	49.437	16.94

802.11n (20MHz)

CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
1	2412	15.12	15.70	69.663	18.43
6	2437	20.52	21.11	241.842	23.84
11	2462	15.21	16.02	73.183	18.64

802.11n (40MHz)

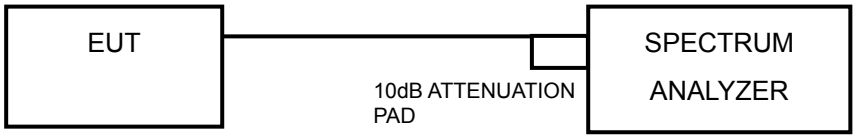
CHAN.	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
3	2422	12.49	12.61	35.981	15.56
6	2437	16.61	16.92	95.018	19.78
9	2452	11.81	11.93	30.767	14.88

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

a. Set the RBW = 3 kHz, VBW =10 kHz, Detector = peak.
b. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
c. 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 A1

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.88	3.01	-8.87	1.19	PASS
	6	2437	-5.57	3.01	-2.56	1.19	PASS
	11	2462	-10.76	3.01	-7.75	1.19	PASS
1	1	2412	-10.09	3.01	-7.08	1.19	PASS
	6	2437	-6.69	3.01	-3.68	1.19	PASS
	11	2462	-10.93	3.01	-7.92	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-13.29	3.01	-10.28	1.19	PASS
	6	2437	-10.91	3.01	-7.90	1.19	PASS
	11	2462	-11.54	3.01	-8.53	1.19	PASS
1	1	2412	-13.19	3.01	-10.18	1.19	PASS
	6	2437	-12.54	3.01	-9.53	1.19	PASS
	11	2462	-11.36	3.01	-8.35	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-14.19	3.01	-11.18	1.19	PASS
	6	2437	-12.72	3.01	-9.71	1.19	PASS
	11	2462	-13.47	3.01	-10.46	1.19	PASS
1	1	2412	-11.00	3.01	-7.99	1.19	PASS
	6	2437	-9.79	3.01	-6.78	1.19	PASS
	11	2462	-9.86	3.01	-6.85	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-21.14	3.01	-18.13	1.19	PASS
	6	2437	-14.35	3.01	-11.34	1.19	PASS
	9	2452	-20.34	3.01	-17.33	1.19	PASS
1	3	2422	-21.02	3.01	-18.01	1.19	PASS
	6	2437	-13.29	3.01	-10.28	1.19	PASS
	9	2452	-22.17	3.01	-19.16	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

TEST MODE A 2

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-10.60	3.01	-7.59	1.19	PASS
	6	2437	-4.20	3.01	-1.19	1.19	PASS
	11	2462	-5.46	3.01	-2.45	1.19	PASS
1	1	2412	-10.11	3.01	-7.10	1.19	PASS
	6	2437	-5.55	3.01	-2.54	1.19	PASS
	11	2462	-5.96	3.01	-2.95	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.54	3.01	-8.53	1.19	PASS
	6	2437	-10.84	3.01	-7.83	1.19	PASS
	11	2462	-7.73	3.01	-4.72	1.19	PASS
1	1	2412	-11.17	3.01	-8.16	1.19	PASS
	6	2437	-11.00	3.01	-7.99	1.19	PASS
	11	2462	-11.31	3.01	-8.30	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-12.24	3.01	-9.23	1.19	PASS
	6	2437	-10.07	3.01	-7.06	1.19	PASS
	11	2462	-10.80	3.01	-7.79	1.19	PASS
1	1	2412	-10.26	3.01	-7.25	1.19	PASS
	6	2437	-12.14	3.01	-9.13	1.19	PASS
	11	2462	-11.97	3.01	-8.96	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-16.28	3.01	-13.27	1.19	PASS
	6	2437	-12.31	3.01	-9.30	1.19	PASS
	9	2452	-15.26	3.01	-12.25	1.19	PASS
1	3	2422	-13.70	3.01	-10.69	1.19	PASS
	6	2437	-12.02	3.01	-9.01	1.19	PASS
	9	2452	-11.94	3.01	-8.93	1.19	PASS

NOTE: Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi , so the power density limit shall be reduced to 8-(12.81-6) = 1.19dBm.

TEST MODE B1

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-8.43	3.01	-5.42	7.19	PASS
	6	2437	-6.21	3.01	-3.20	7.19	PASS
	11	2462	-10.26	3.01	-7.25	7.19	PASS
1	1	2412	-8.50	3.01	-5.49	7.19	PASS
	6	2437	-5.86	3.01	-2.85	7.19	PASS
	11	2462	-9.61	3.01	-6.60	7.19	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.29	3.01	-8.28	7.19	PASS
	6	2437	-6.46	3.01	-3.45	7.19	PASS
	11	2462	-11.52	3.01	-8.51	7.19	PASS
1	1	2412	-12.57	3.01	-9.56	7.19	PASS
	6	2437	-5.47	3.01	-2.46	7.19	PASS
	11	2462	-10.99	3.01	-7.98	7.19	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-14.66	3.01	-11.65	7.19	PASS
	6	2437	-6.06	3.01	-3.05	7.19	PASS
	11	2462	-6.26	3.01	-3.25	7.19	PASS
1	1	2412	-8.48	3.01	-5.47	7.19	PASS
	6	2437	-6.52	3.01	-3.51	7.19	PASS
	11	2462	-8.64	3.01	-5.63	7.19	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-18.34	3.01	-15.33	7.19	PASS
	6	2437	-14.12	3.01	-11.11	7.19	PASS
	9	2452	-18.09	3.01	-15.08	7.19	PASS
1	3	2422	-17.33	3.01	-14.32	7.19	PASS
	6	2437	-10.51	3.01	-7.50	7.19	PASS
	9	2452	-19.85	3.01	-16.84	7.19	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

TEST MODE B 2

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-11.01	3.01	-8.00	7.19	PASS
	6	2437	-5.44	3.01	-2.43	7.19	PASS
	11	2462	-4.59	3.01	-1.58	7.19	PASS
1	1	2412	-11.10	3.01	-8.09	7.19	PASS
	6	2437	-4.71	3.01	-1.70	7.19	PASS
	11	2462	-6.19	3.01	-3.18	7.19	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-12.73	3.01	-9.72	7.19	PASS
	6	2437	-6.21	3.01	-3.20	7.19	PASS
	11	2462	-7.61	3.01	-4.60	7.19	PASS
1	1	2412	-13.77	3.01	-10.76	7.19	PASS
	6	2437	-5.50	3.01	-2.49	7.19	PASS
	11	2462	-9.57	3.01	-6.56	7.19	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-12.13	3.01	-9.12	7.19	PASS
	6	2437	-5.34	3.01	-2.33	7.19	PASS
	11	2462	-10.68	3.01	-7.67	7.19	PASS
1	1	2412	-12.23	3.01	-9.22	7.19	PASS
	6	2437	-4.23	3.01	-1.22	7.19	PASS
	11	2462	-8.54	3.01	-5.53	7.2	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-15.01	3.01	-12.00	7.19	PASS
	6	2437	-11.71	3.01	-8.70	7.19	PASS
	9	2452	-14.71	3.01	-11.70	7.19	PASS
1	3	2422	-11.59	3.01	-8.58	7.19	PASS
	6	2437	-11.16	3.01	-8.15	7.19	PASS
	9	2452	-9.93	3.01	-6.92	7.19	PASS

NOTE: Directional gain = 3.8dBi + 10log(2) = 6.81dBi > 6dBi , so the power density limit shall be reduced to 8-(6.81-6) = 7.19dBm.

TEST MODE C1

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-8.46	3.01	-5.45	8	PASS
	6	2437	-4.20	3.01	-1.19	8	PASS
	11	2462	-6.58	3.01	-3.57	8	PASS
1	1	2412	-8.82	3.01	-5.81	8	PASS
	6	2437	-5.94	3.01	-2.93	8	PASS
	11	2462	-4.70	3.01	-1.69	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-10.45	3.01	-7.44	8	PASS
	6	2437	-6.46	3.01	-3.45	8	PASS
	11	2462	-8.21	3.01	-5.20	8	PASS
1	1	2412	-10.90	3.01	-7.89	8	PASS
	6	2437	-6.39	3.01	-3.38	8	PASS
	11	2462	-9.61	3.01	-6.60	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-9.05	3.01	-6.04	8	PASS
	6	2437	-6.06	3.01	-3.05	8	PASS
	11	2462	-6.02	3.01	-3.01	8	PASS
1	1	2412	-6.12	3.01	-3.11	8	PASS
	6	2437	-6.52	3.01	-3.51	8	PASS
	11	2462	-10.03	3.01	-7.02	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-16.66	3.01	-13.65	8	PASS
	6	2437	-11.72	3.01	-8.71	8	PASS
	9	2452	-17.74	3.01	-14.73	8	PASS
1	3	2422	-10.22	3.01	-7.21	8	PASS
	6	2437	-11.35	3.01	-8.34	8	PASS
	9	2452	-14.63	3.01	-11.62	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

TEST MODE C 2

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-9.33	3.01	-6.32	8	PASS
	6	2437	-3.03	3.01	-0.02	8	PASS
	11	2462	-8.17	3.01	-5.16	8	PASS
1	1	2412	-8.74	3.01	-5.73	8	PASS
	6	2437	-4.93	3.01	-1.92	8	PASS
	11	2462	-8.73	3.01	-5.72	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-9.70	3.01	-6.69	8	PASS
	6	2437	-5.16	3.01	-2.15	8	PASS
	11	2462	-11.26	3.01	-8.25	8	PASS
1	1	2412	-10.72	3.01	-7.71	8	PASS
	6	2437	-5.83	3.01	-2.82	8	PASS
	11	2462	-12.38	3.01	-9.37	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	1	2412	-8.40	3.01	-5.39	8	PASS
	6	2437	-5.34	3.01	-2.33	8	PASS
	11	2462	-10.95	3.01	-7.94	8	PASS
1	1	2412	-9.59	3.01	-6.58	8	PASS
	6	2437	-4.23	3.01	-1.22	8	PASS
	11	2462	-11.34	3.01	-8.33	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	3	2422	-16.78	3.01	-13.77	8	PASS
	6	2437	-11.71	3.01	-8.70	8	PASS
	9	2452	-18.22	3.01	-15.21	8	PASS
1	3	2422	-13.67	3.01	-10.66	8	PASS
	6	2437	-11.16	3.01	-8.15	8	PASS
	9	2452	-16.88	3.01	-13.87	8	PASS

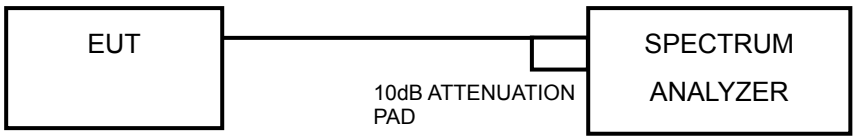
NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

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 ≥ 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 OOBE

1. Set RBW = 100 kHz.
2. Set VBW ≥ 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 10log (N) since the limit is relative emission limit.

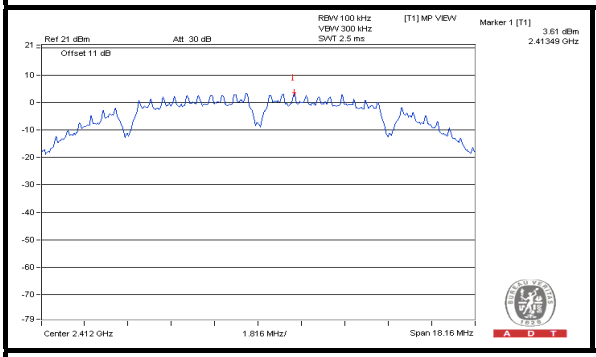
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

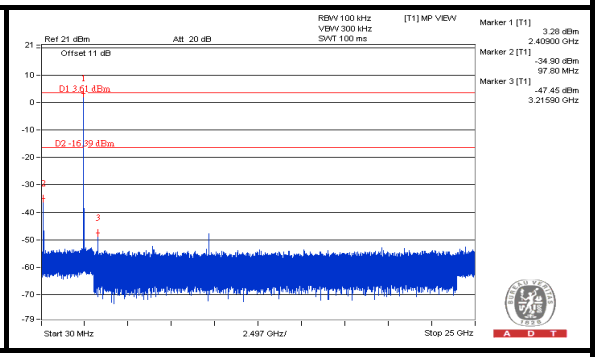
TEST MODE A 1

802.11b

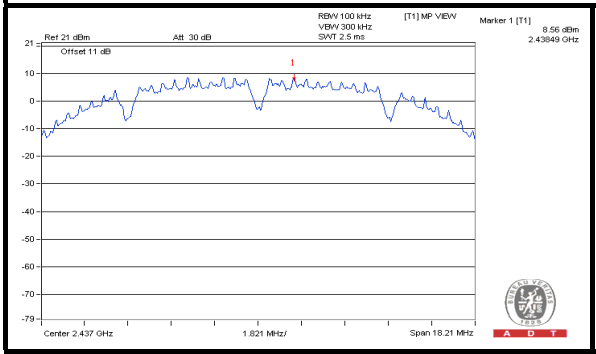
CHAIN 0

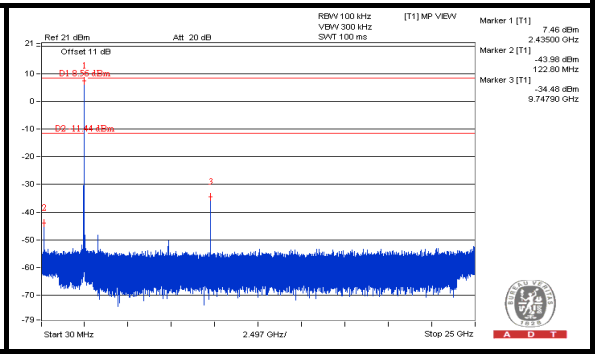
CH 1



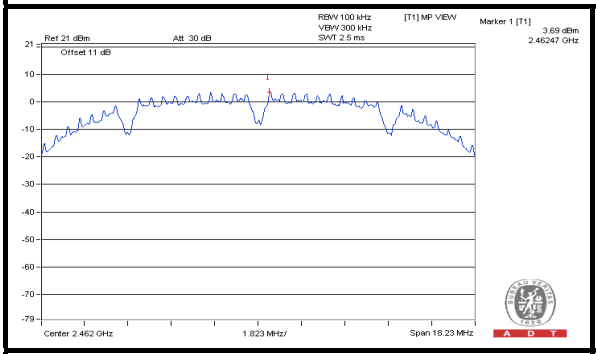


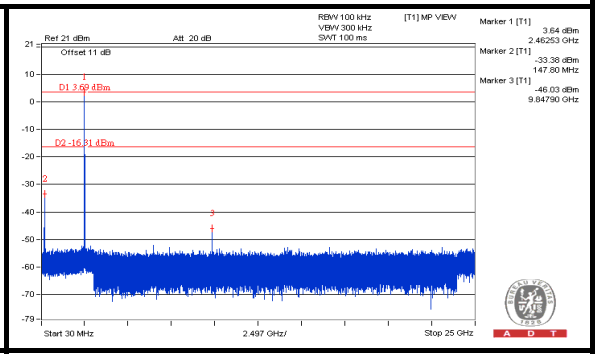
CH 6



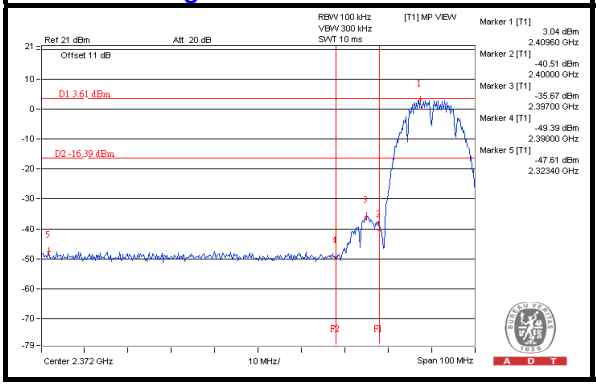


CH 11

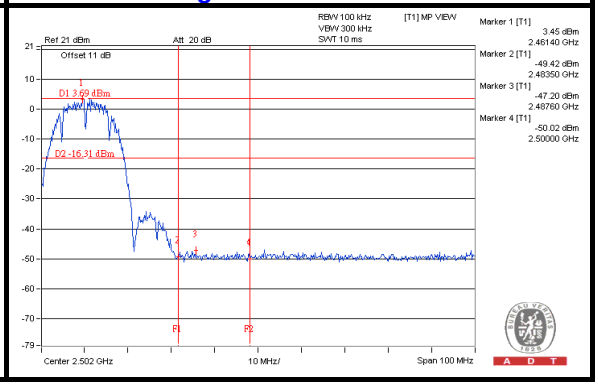




CH 1 Band edge

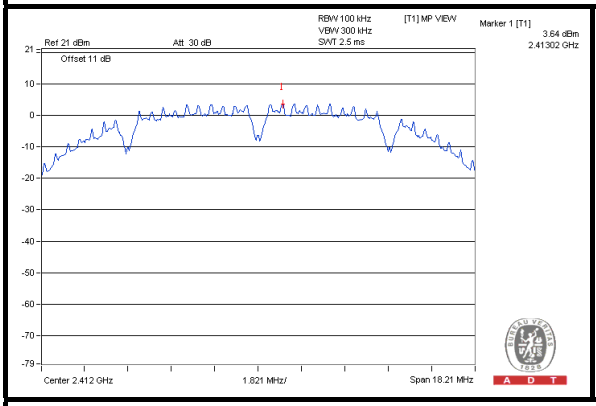


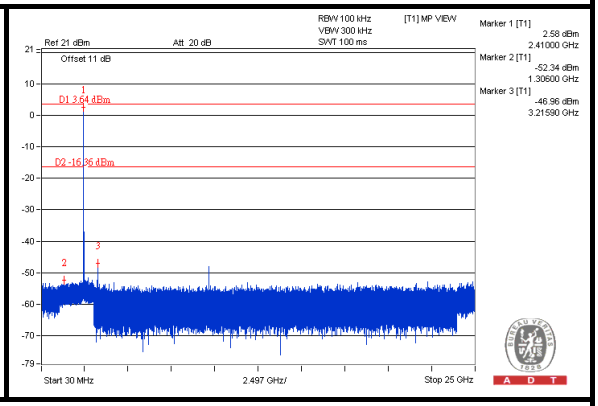
CH 11 Band edge



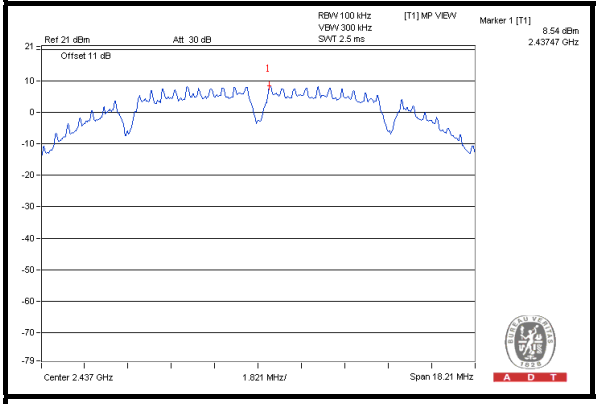
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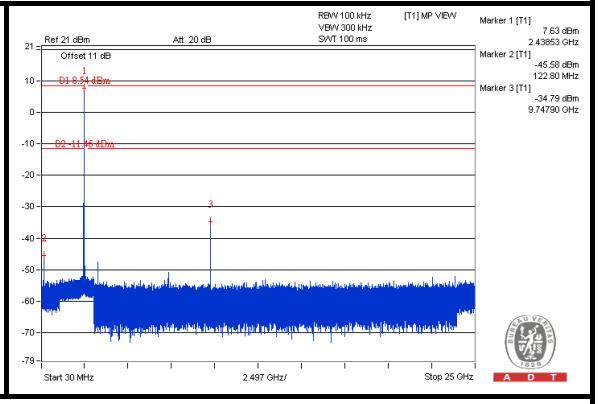
CH 1



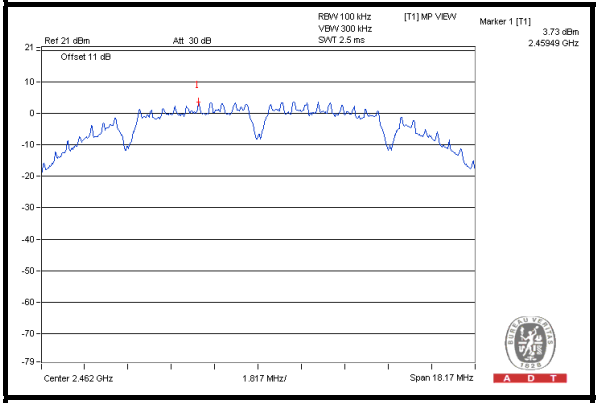


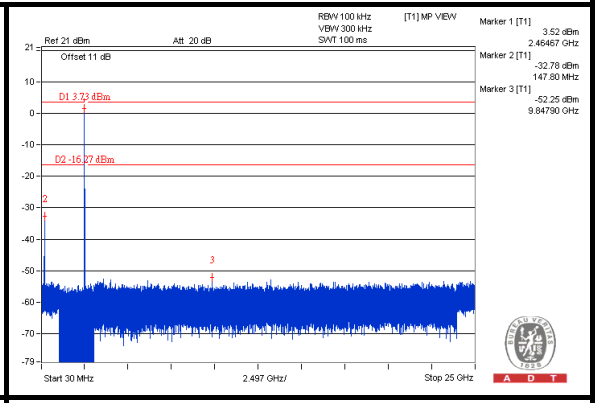
CH 6



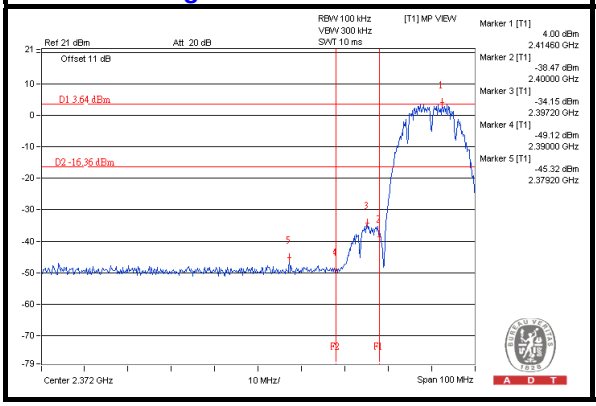


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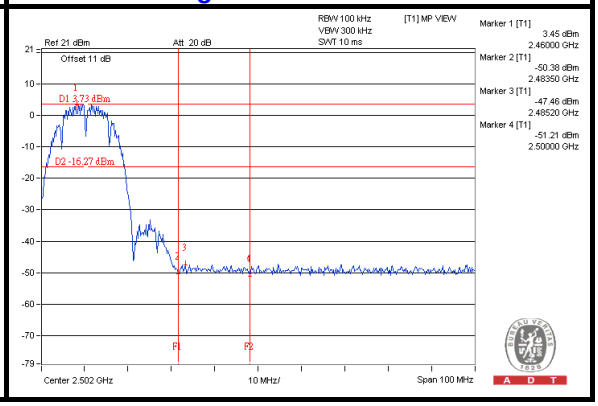




CH 1 Band edge



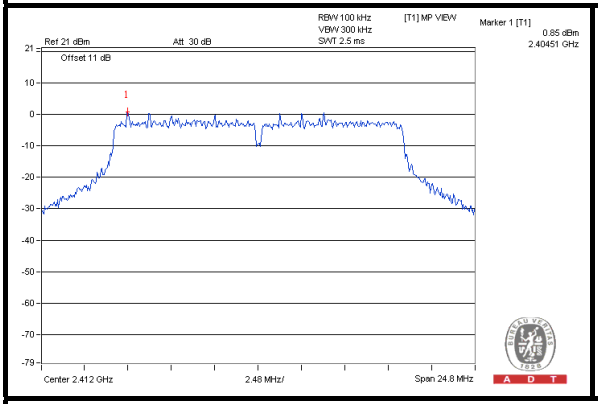
CH 11 Band edge

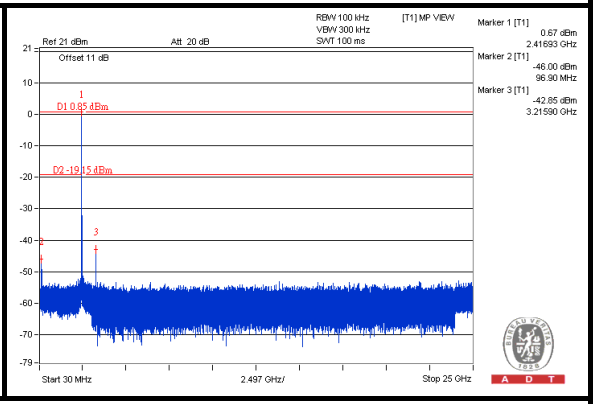


802.11g

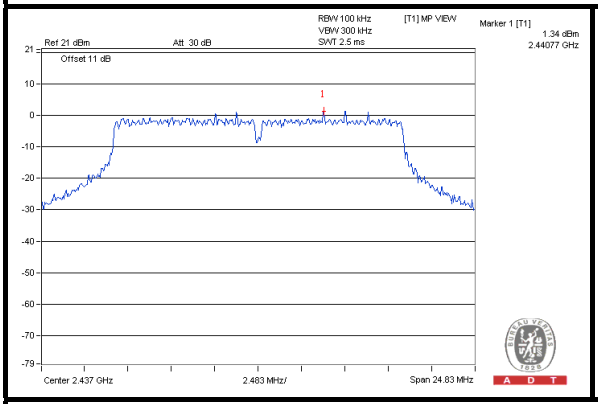
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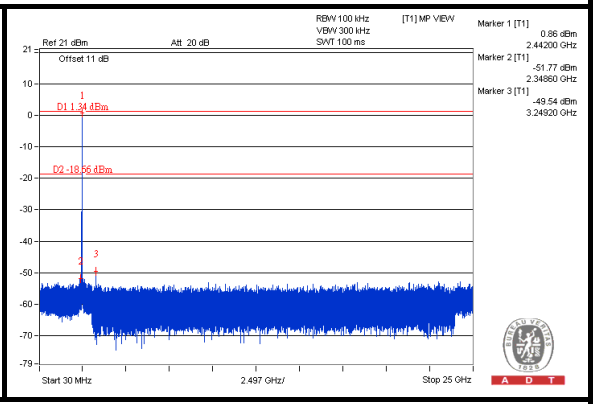
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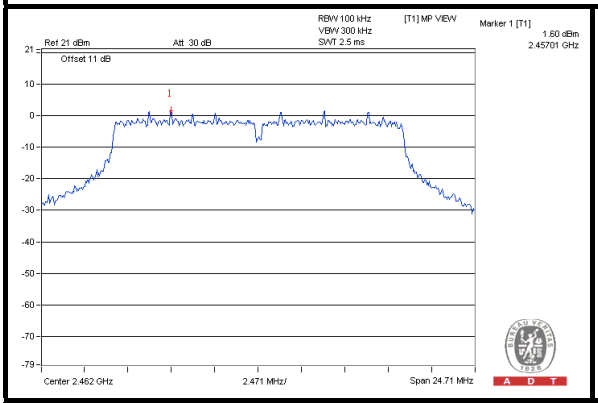


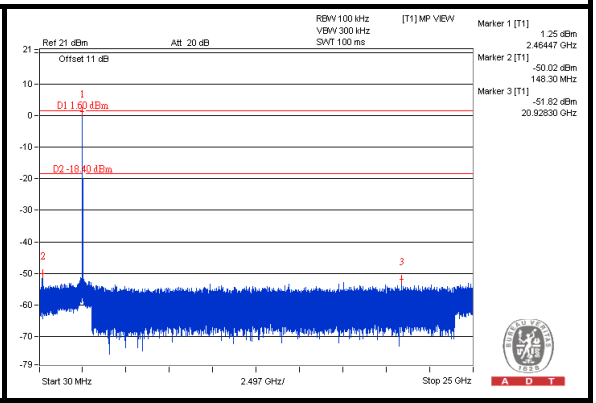
CH 6



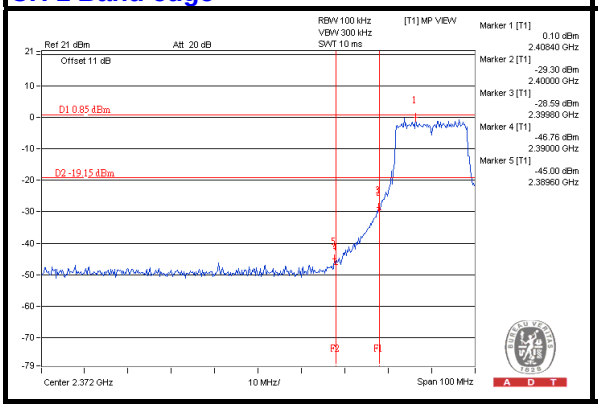


CH 11

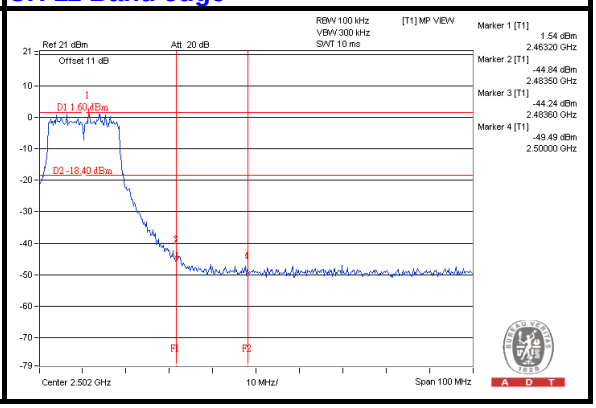




CH 1 Band edge

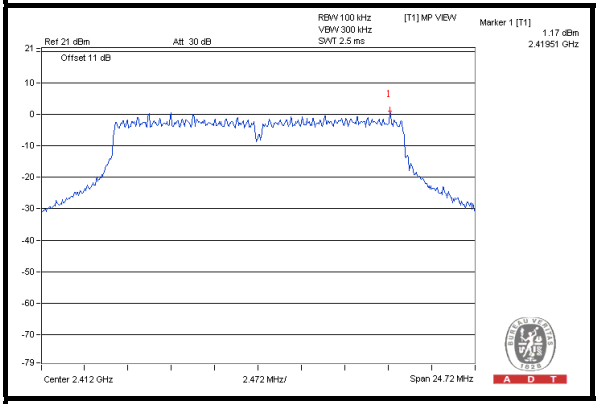


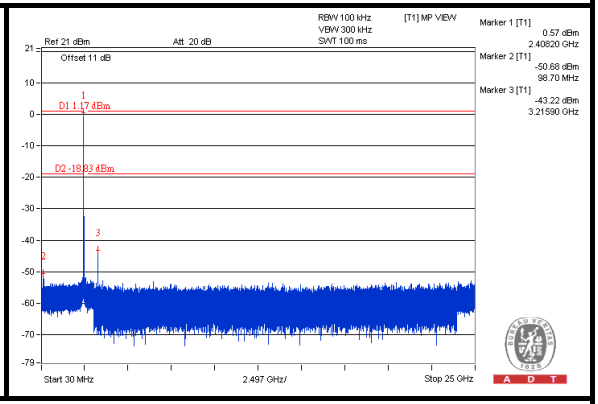
CH 11 Band edge



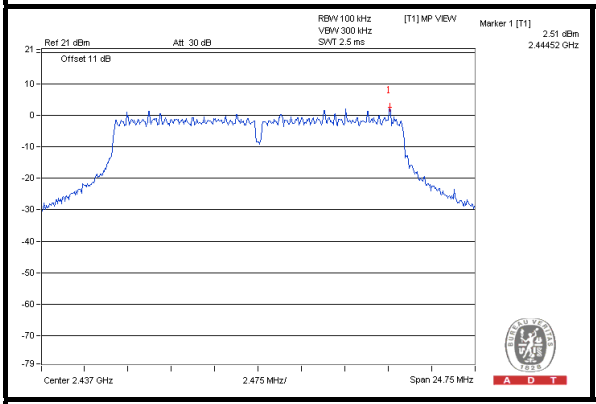
CHAIN 1

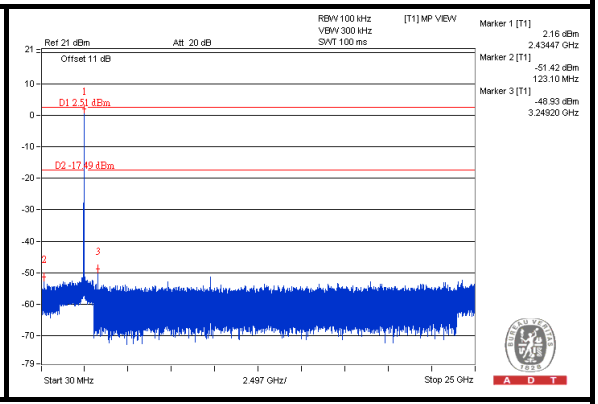
CH 1



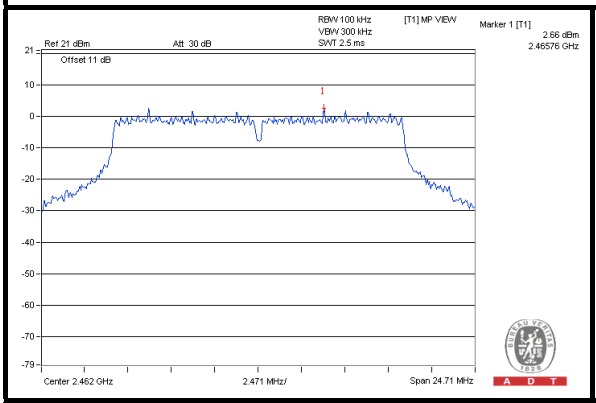


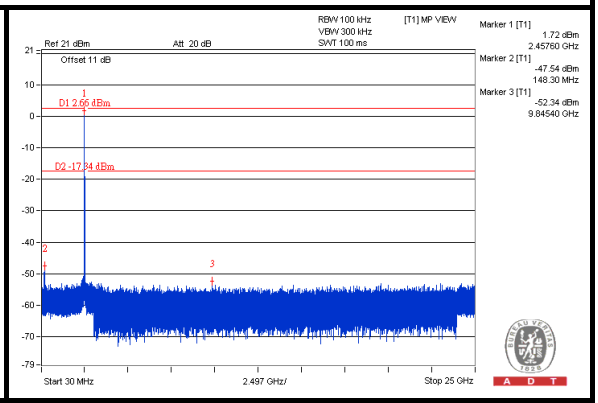
CH 6



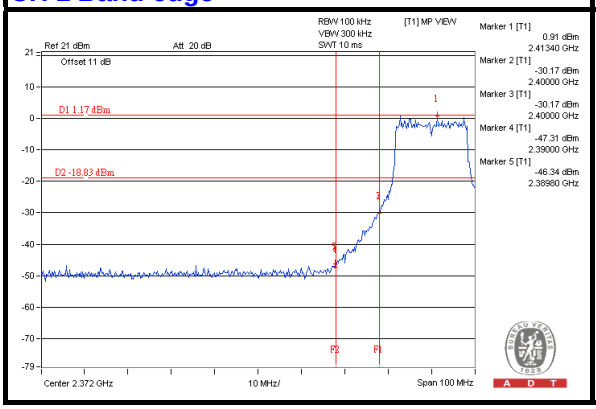


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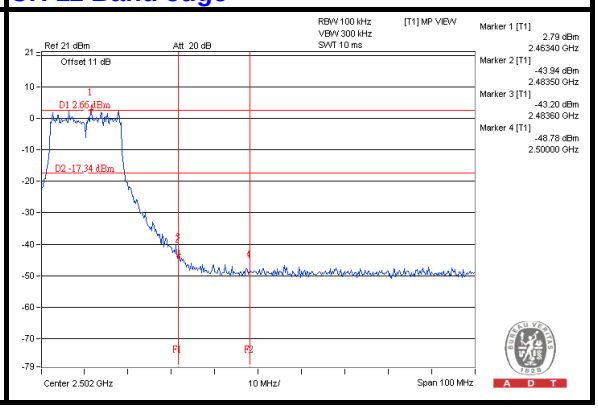




CH 1 Band edge



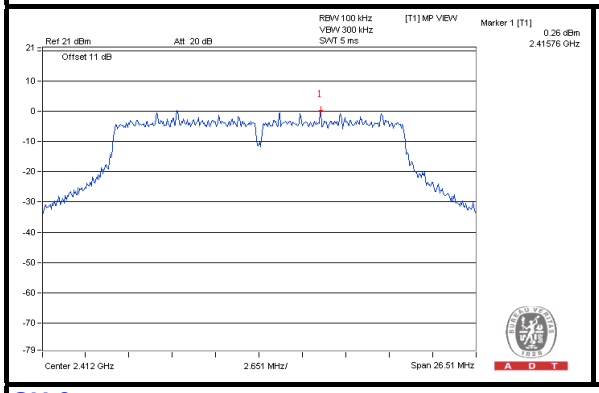
CH 11 Band edge

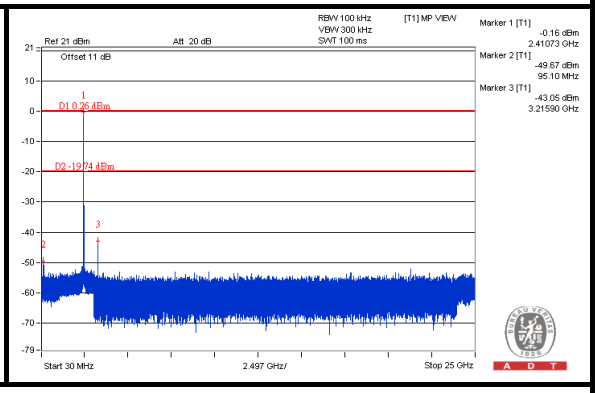


802.11n (20MHz)

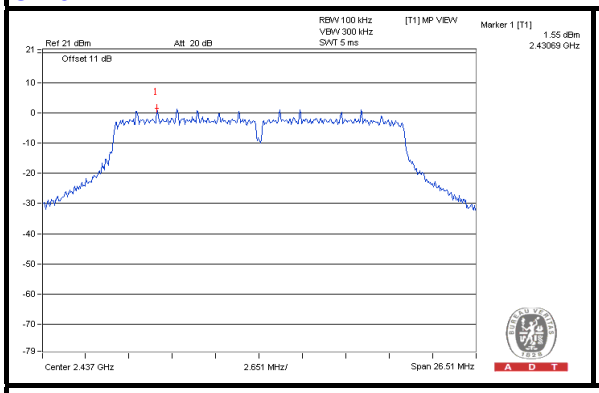
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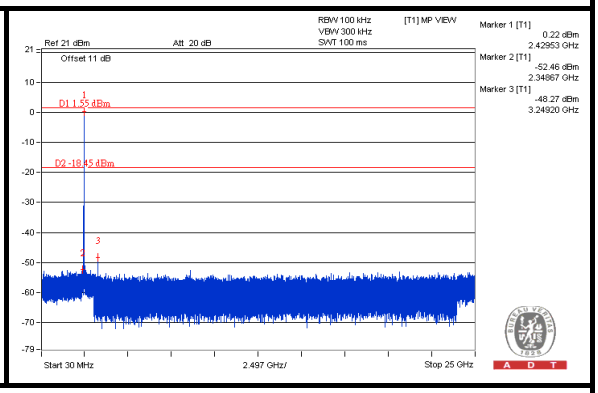
CH 1



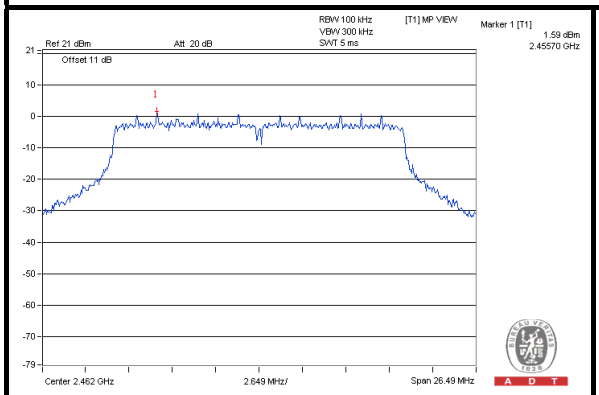


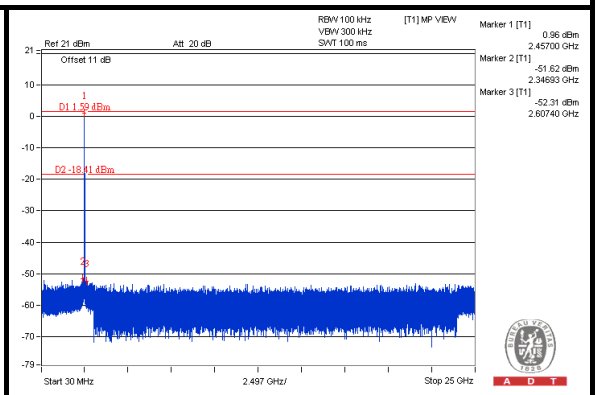
CH 6



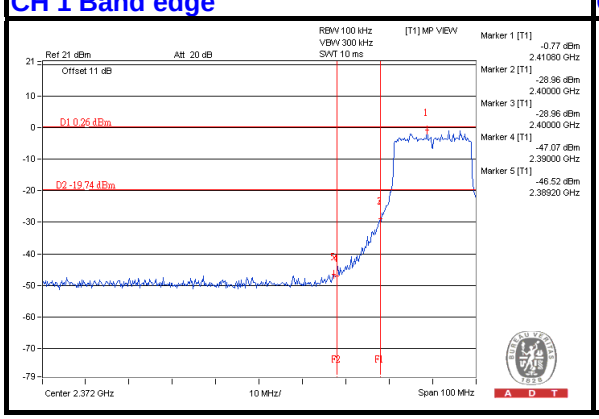


CH 11

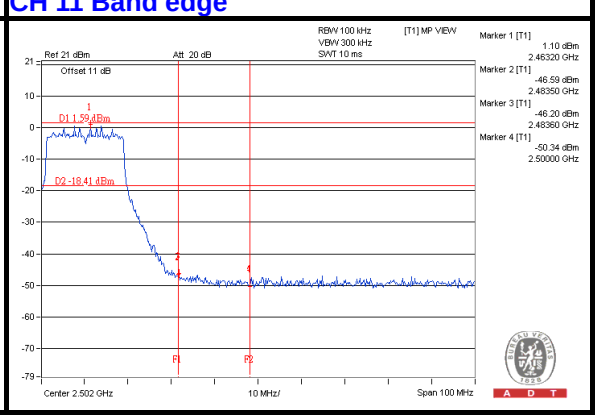




CH 1 Band edge

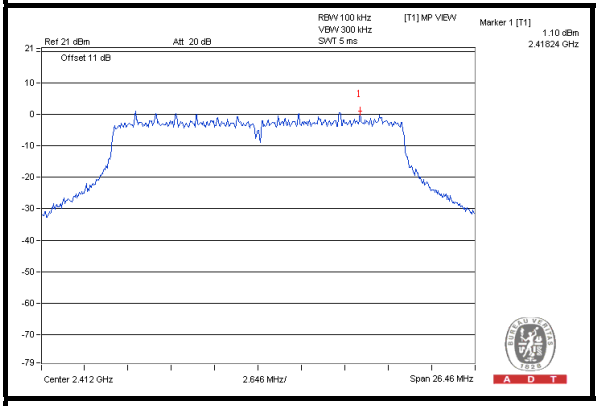


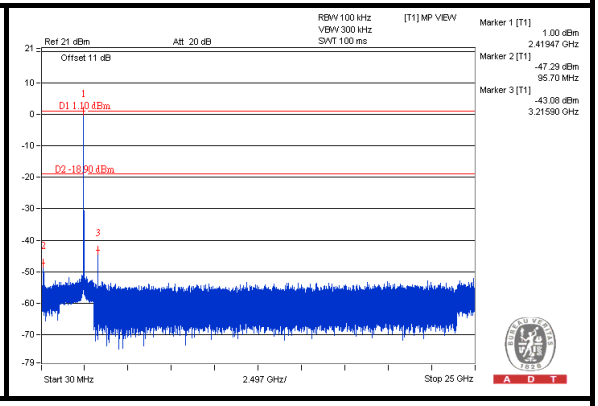
CH 11 Band edge



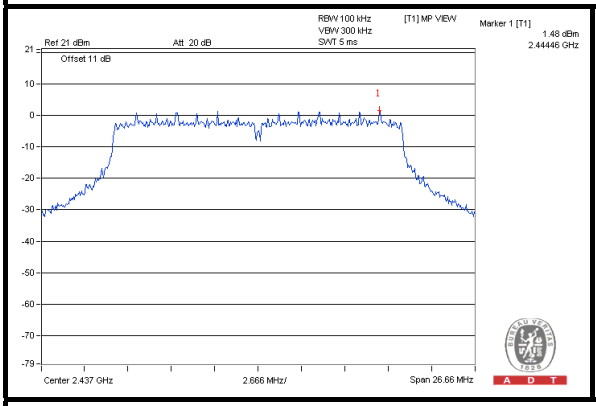
CHAIN 1

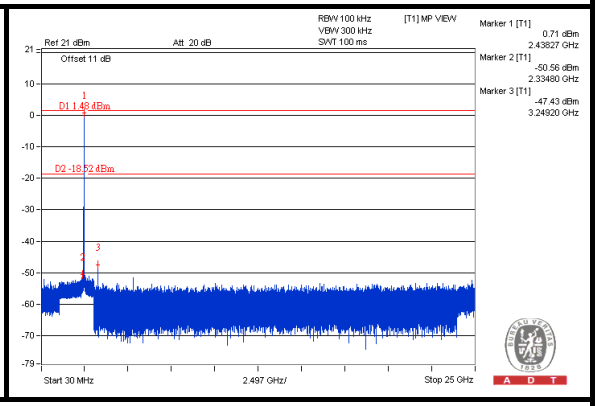
CH 1



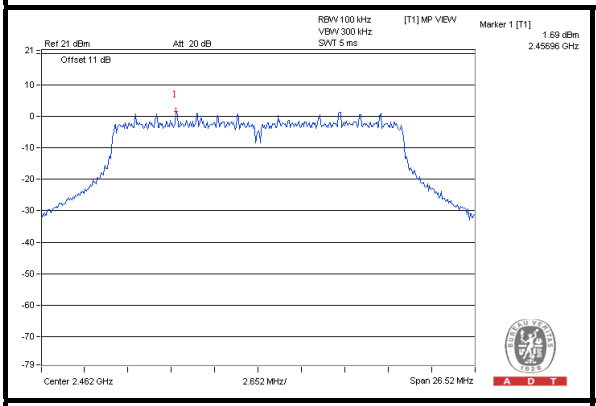


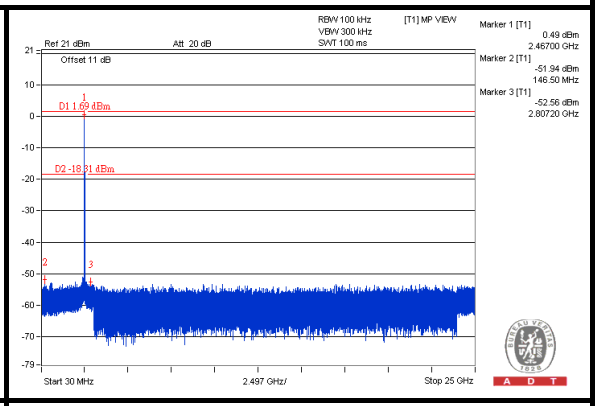
CH 6



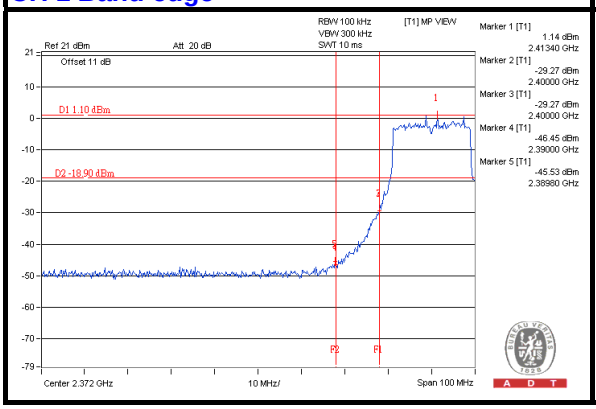


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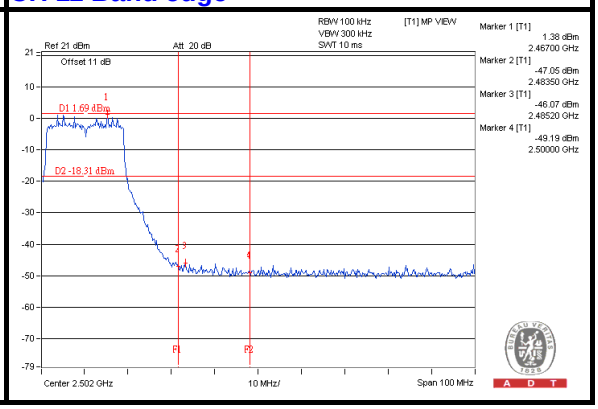




CH 1 Band edge



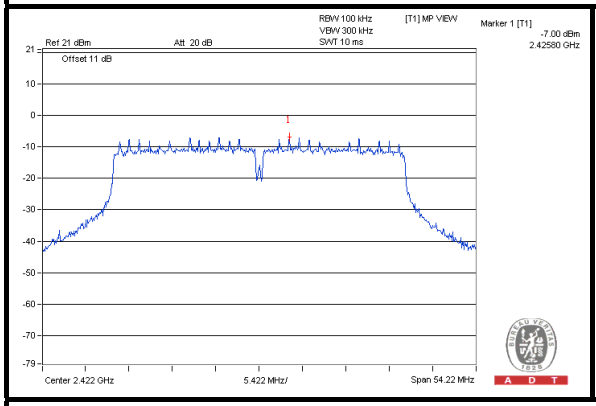
CH 11 Band edge

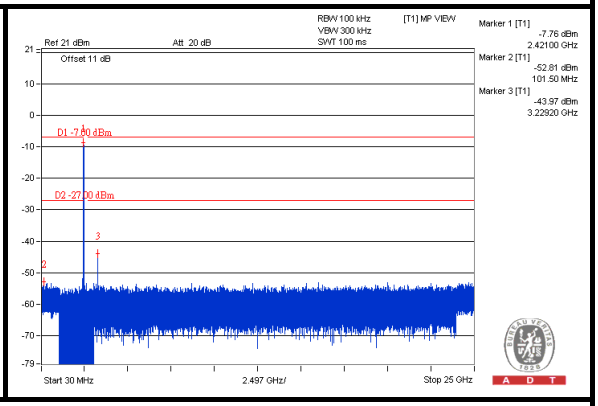


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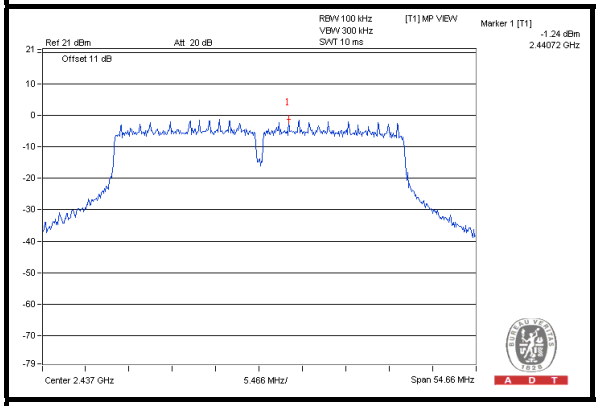
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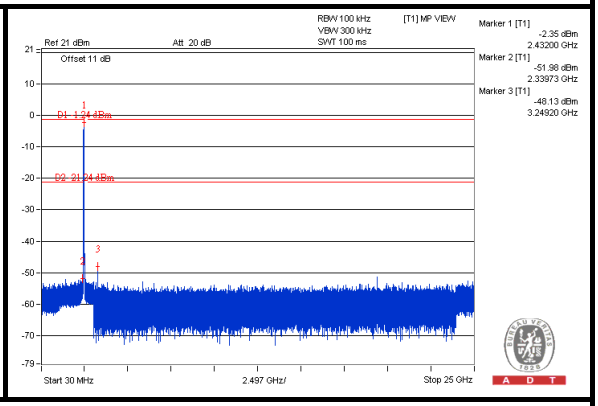
CH 3



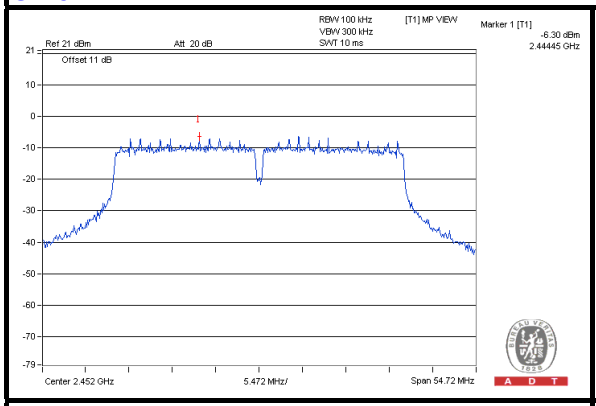


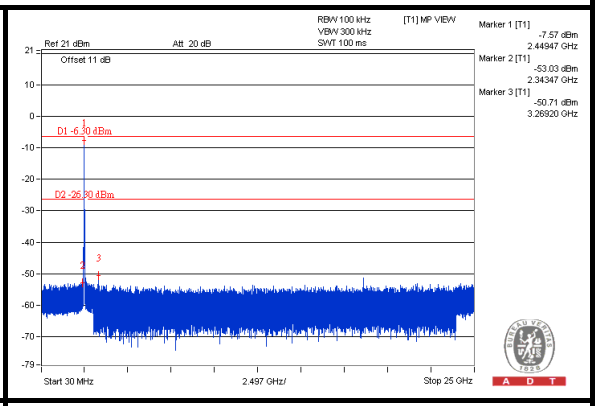
CH 6



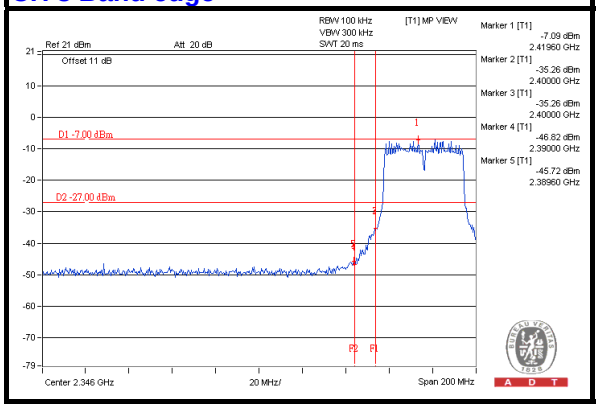


CH 9

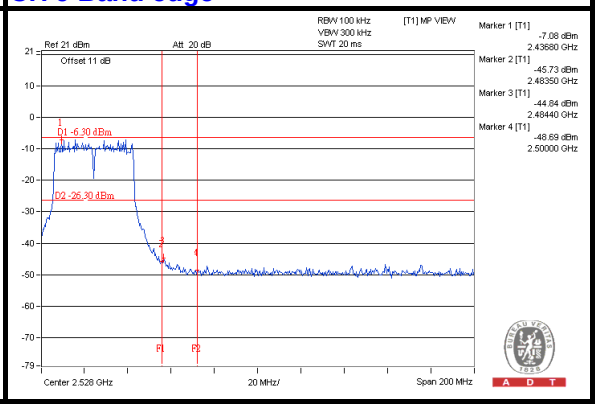




CH 3 Band edge

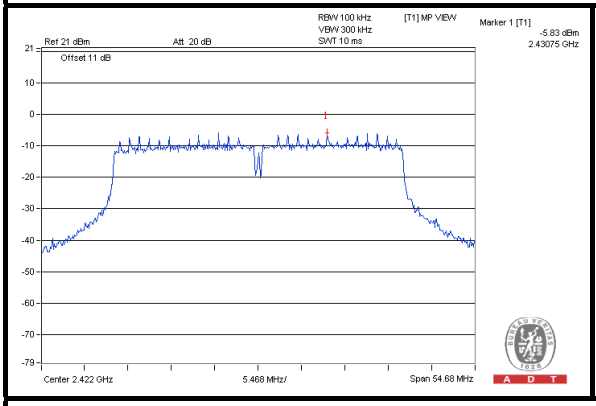


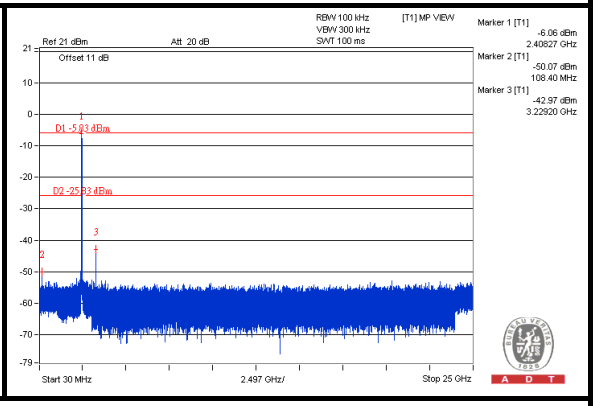
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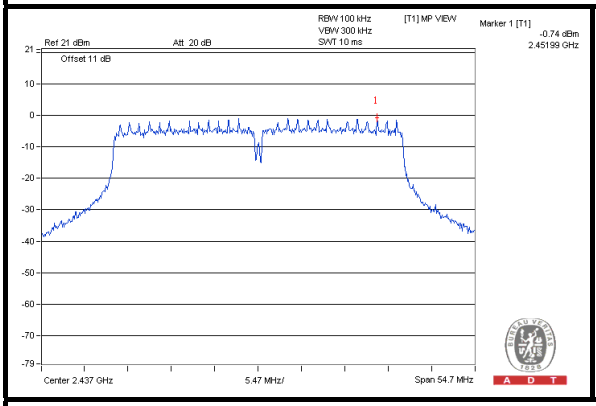
CHAIN 1

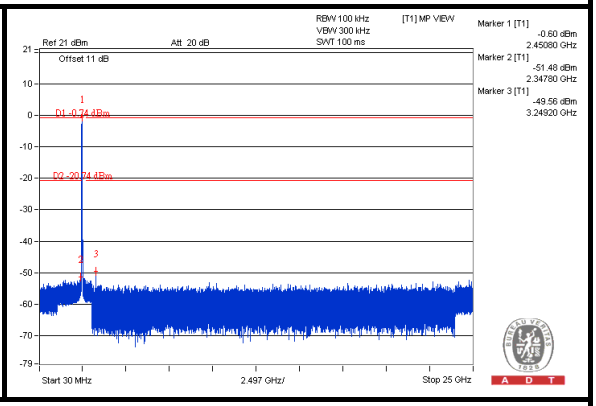
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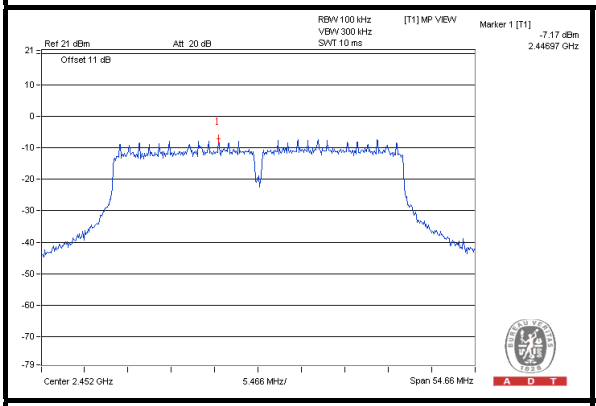


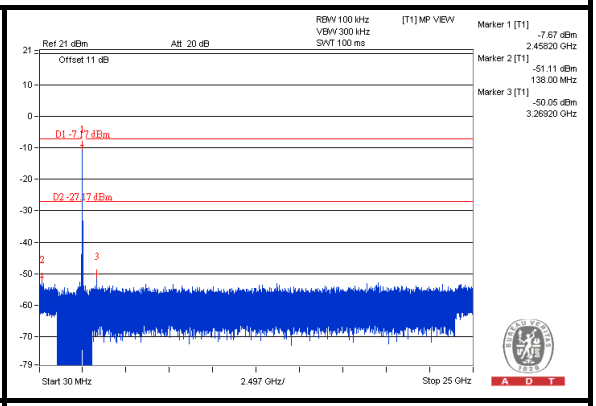
CH 6



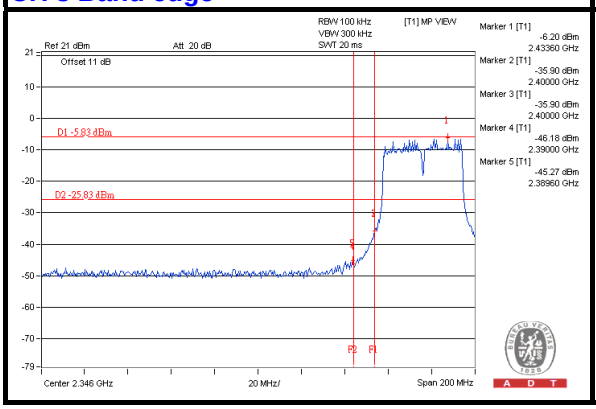


CH 9

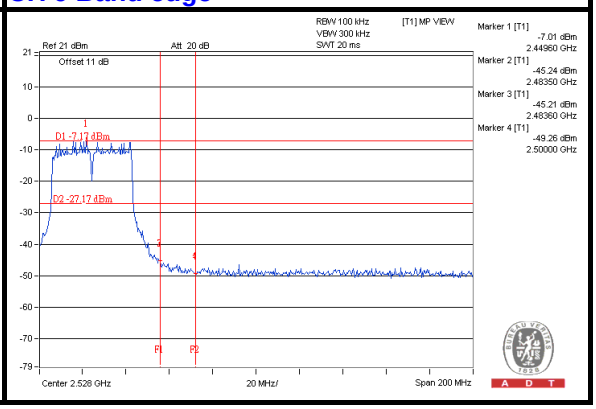




CH 3 Band edge



CH 9 Band edge

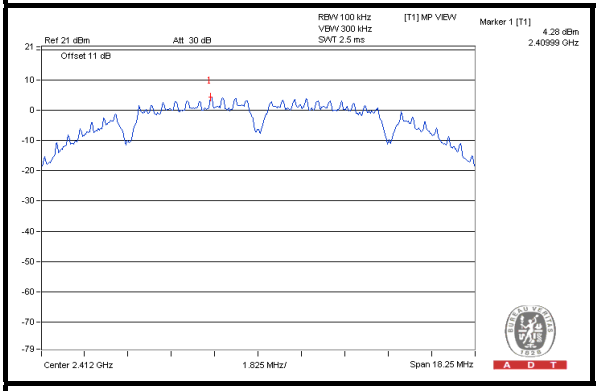


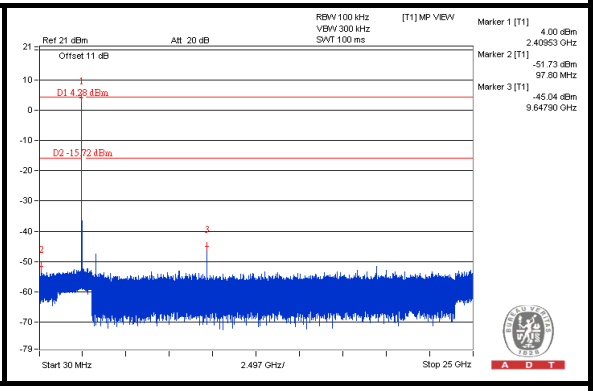
TEST MODE A 2

802.11b

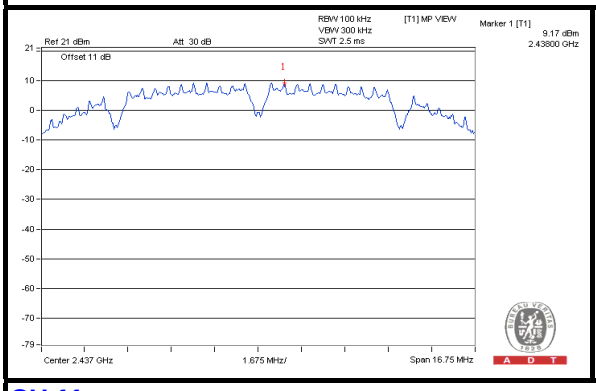
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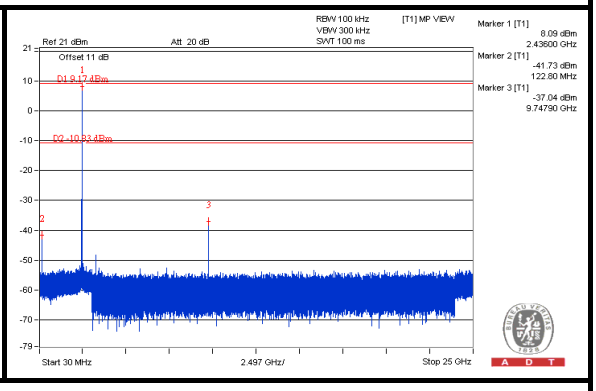
CH 1



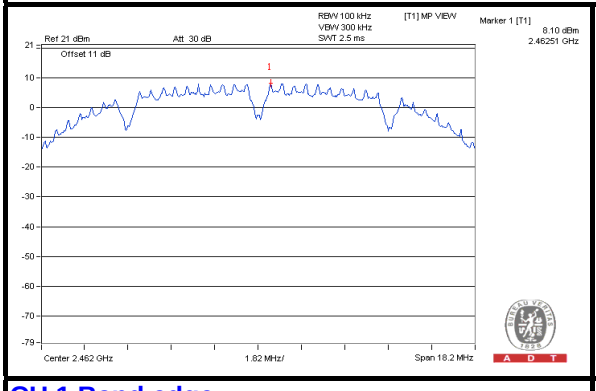


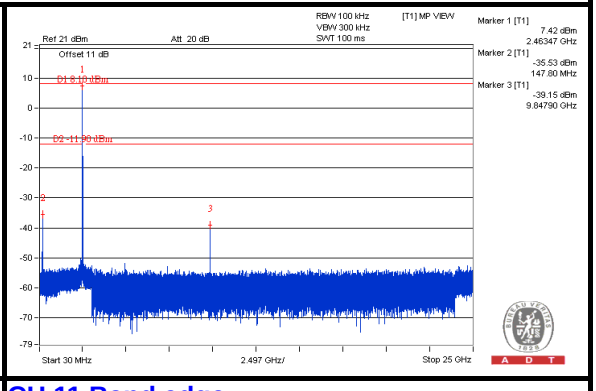
CH 6



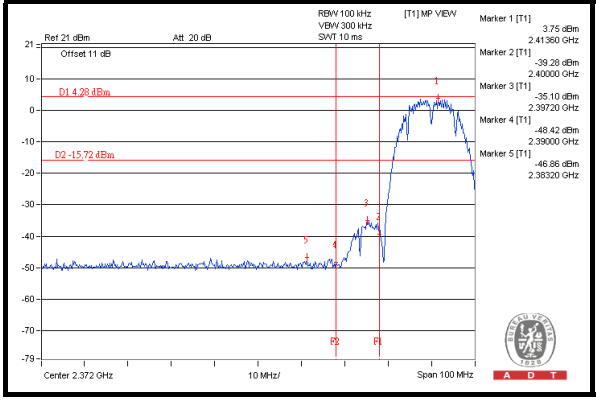


CH 11

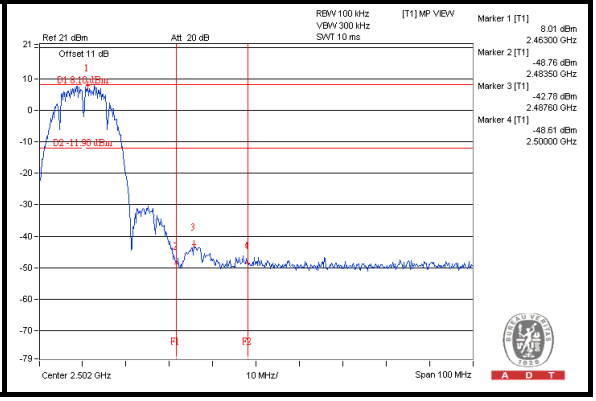




CH 1 Band edge

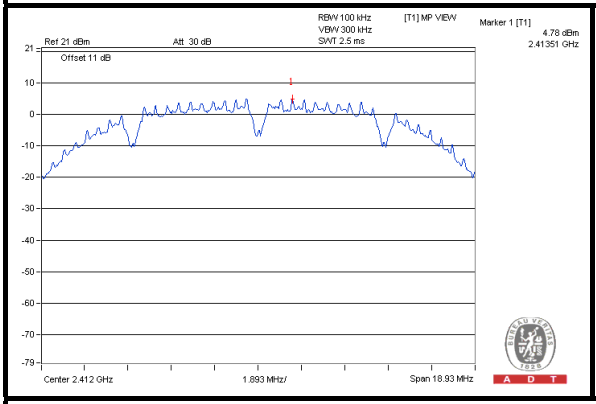


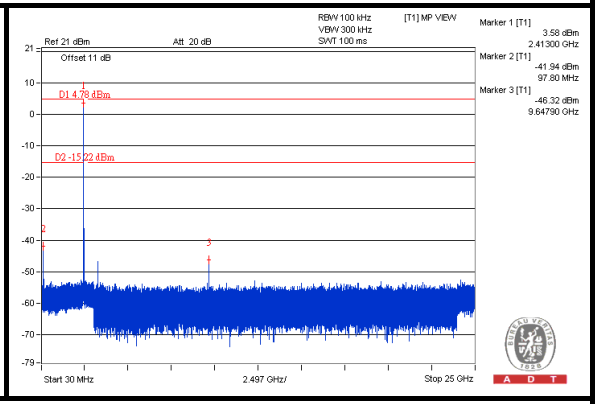
CH 11 Band edge



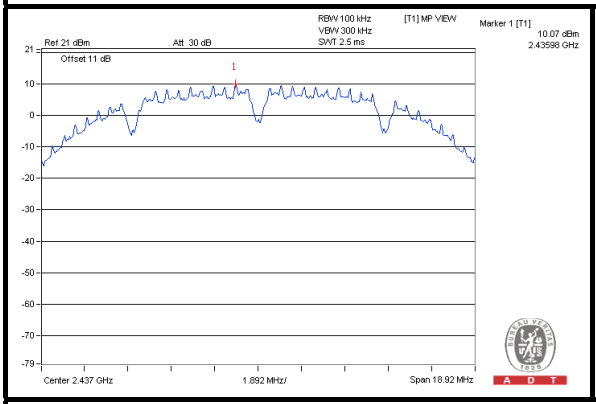
CHAIN 1

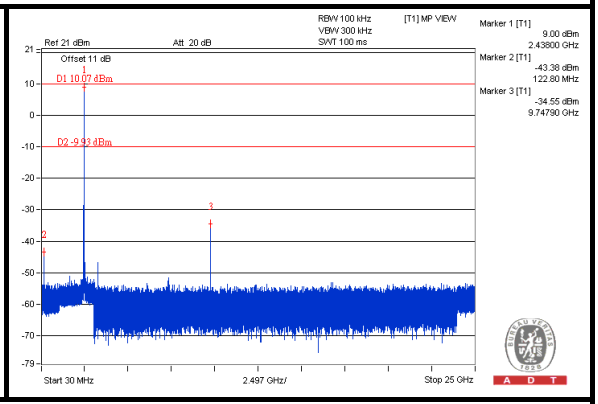
CH 1



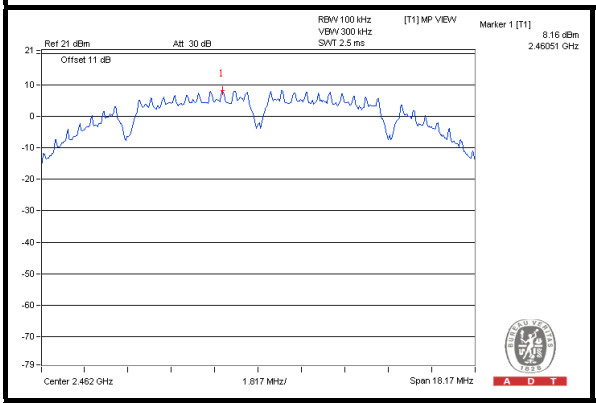


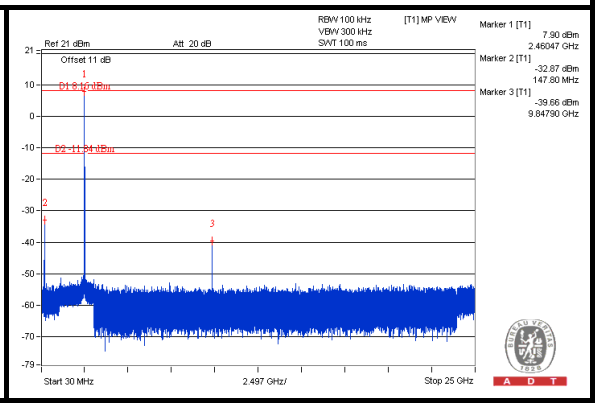
CH 6



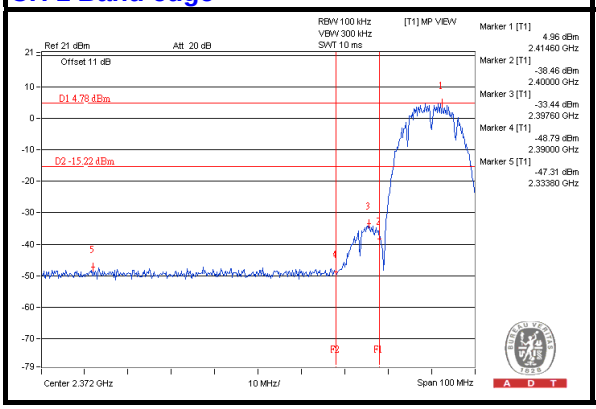


CH 11

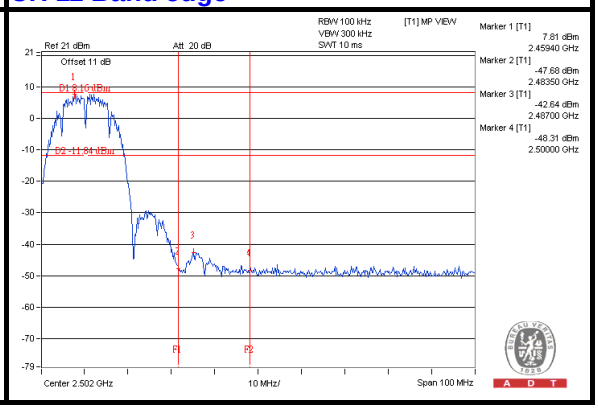




CH 1 Band edge



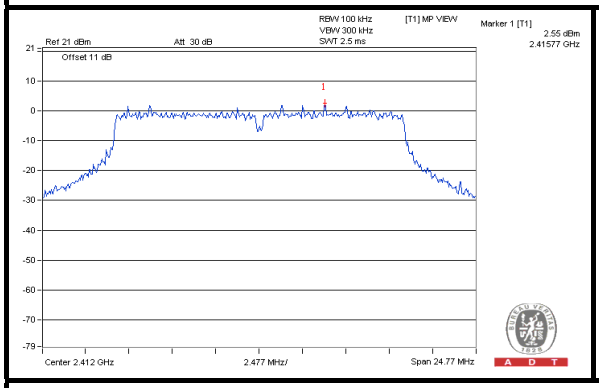
CH 11 Band edge

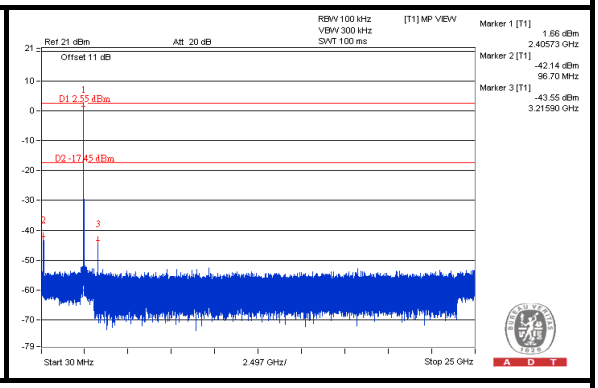


802.11g

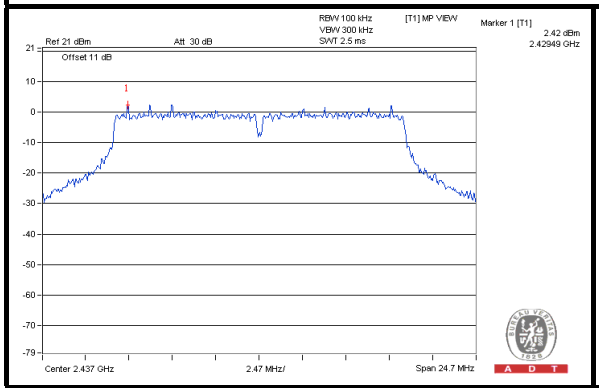
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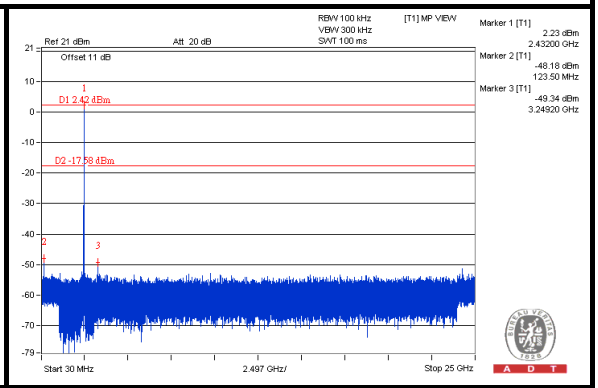
CH 1



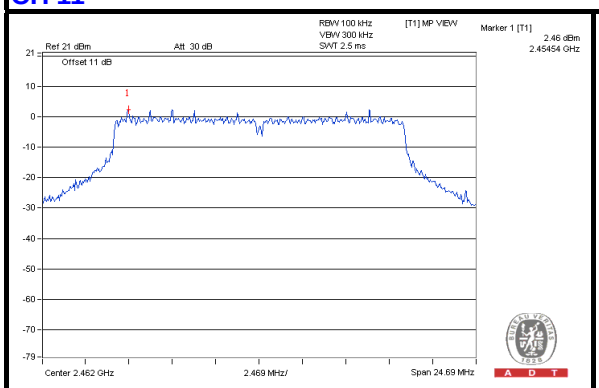


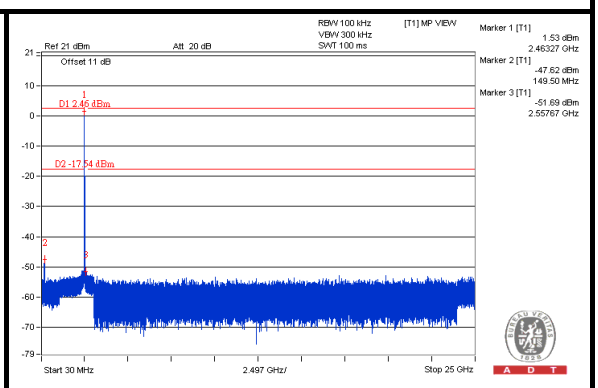
CH 6



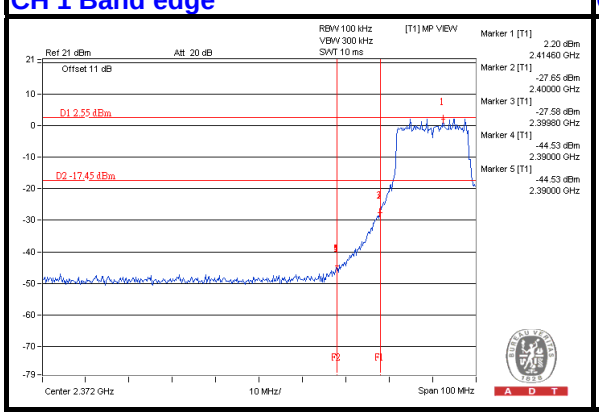


CH 11

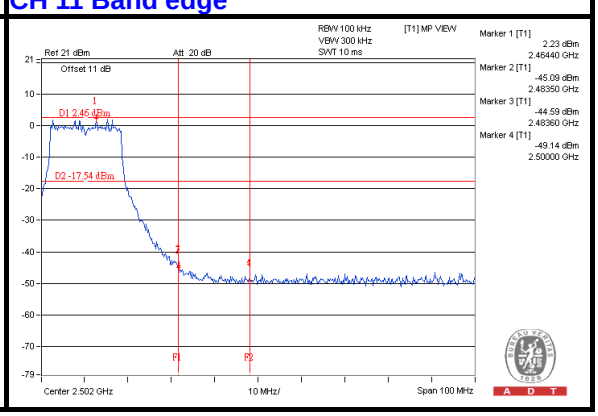




CH 1 Band edge

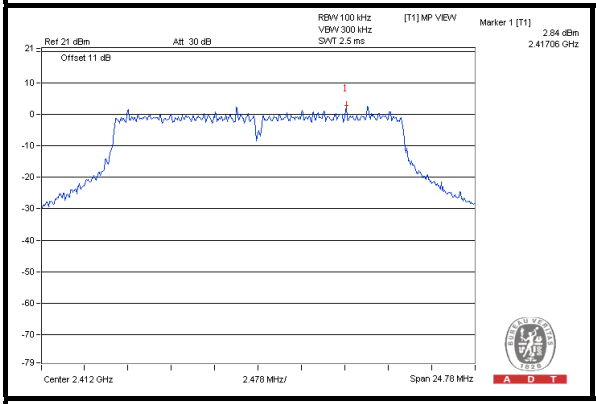


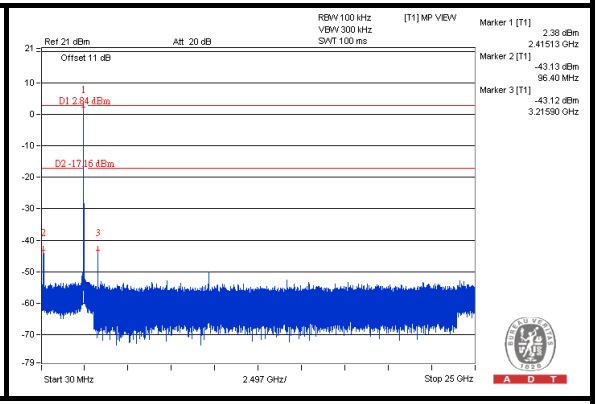
CH 11 Band edge



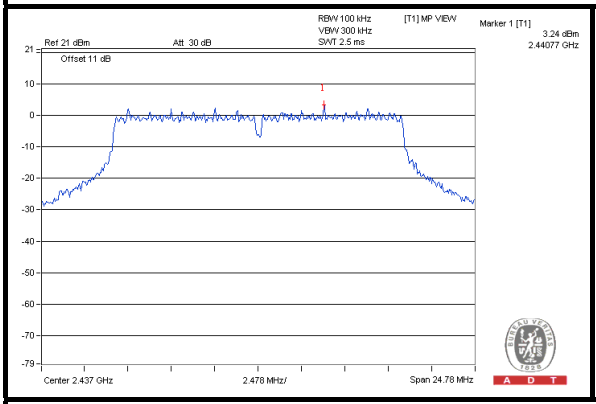
CHAIN 1

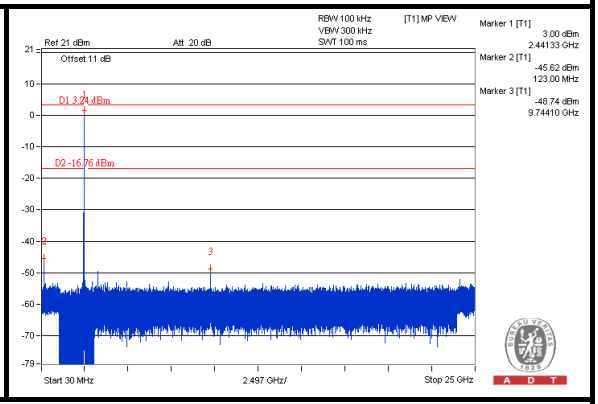
CH 1



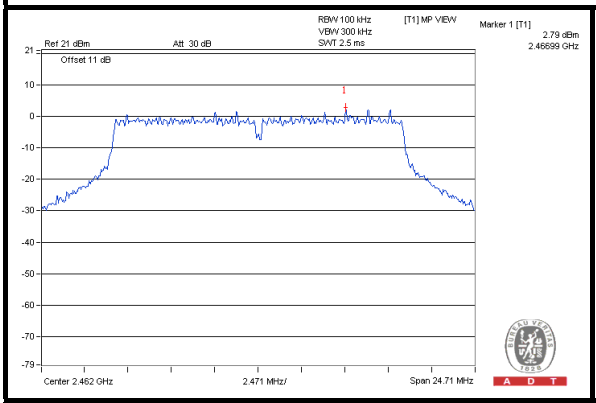


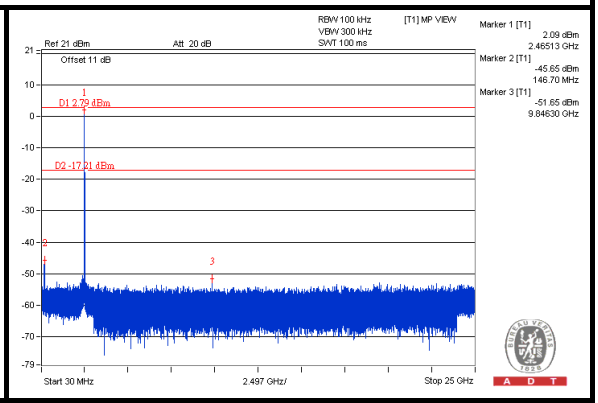
CH 6



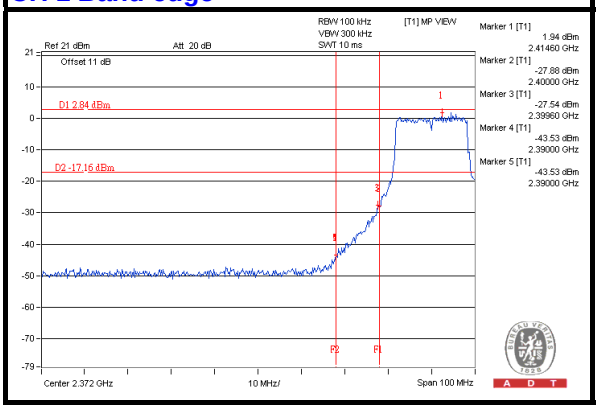


CH 11

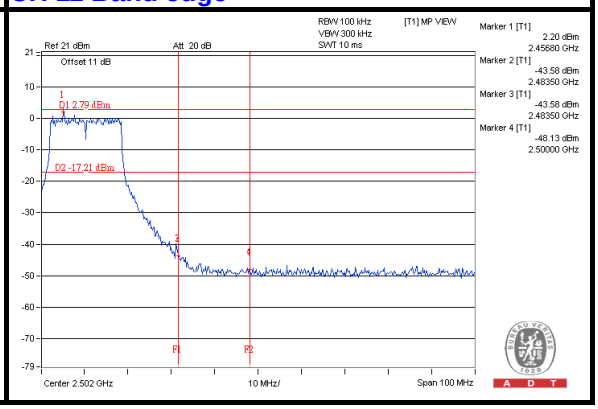




CH 1 Band edge



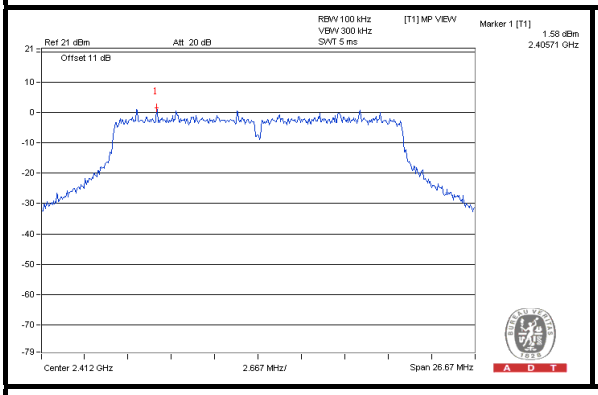
CH 11 Band edge

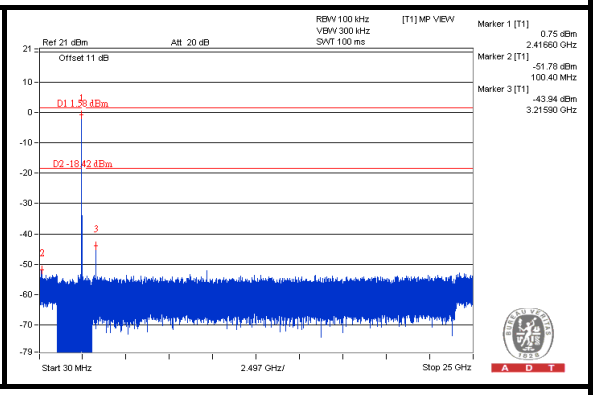


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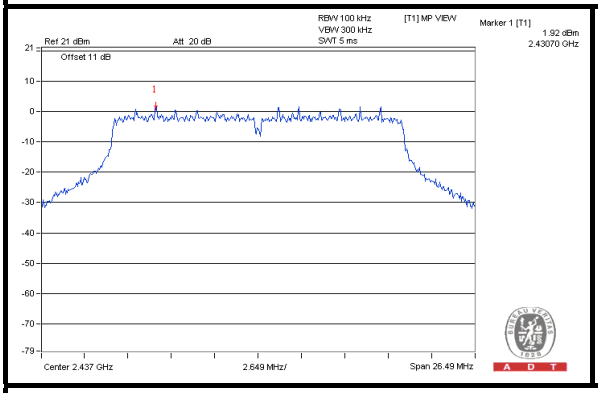
CHAIN 0

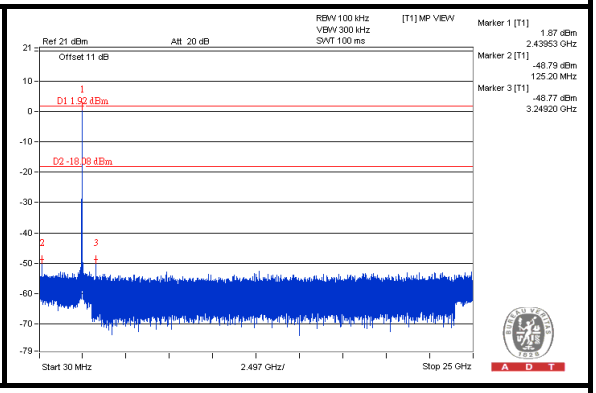
CH 1



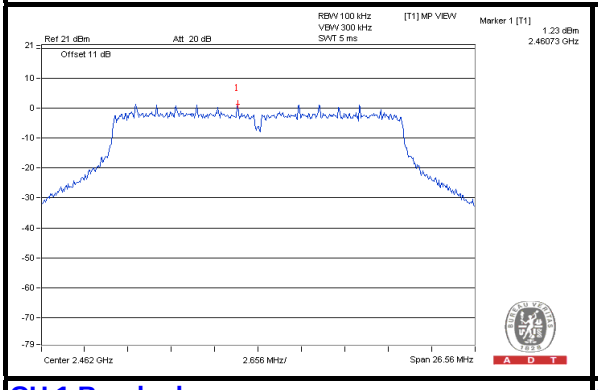


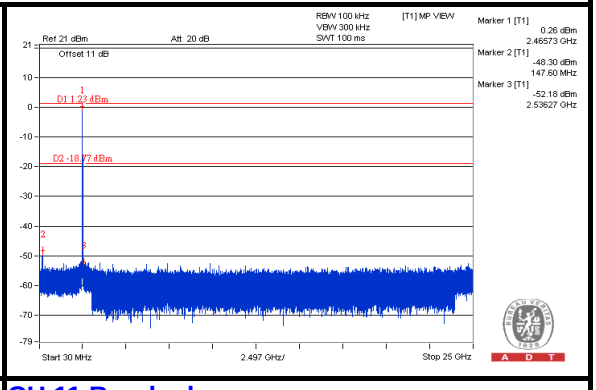
CH 6



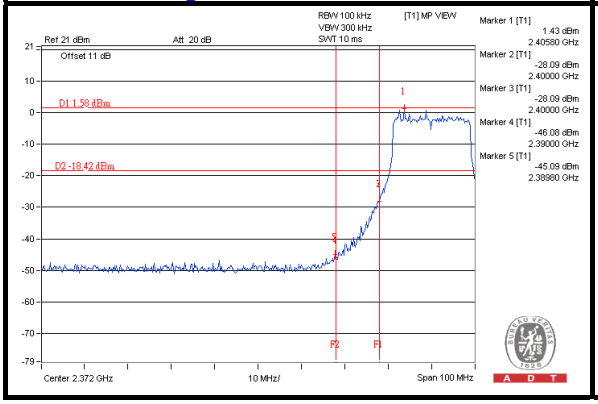


CH 11

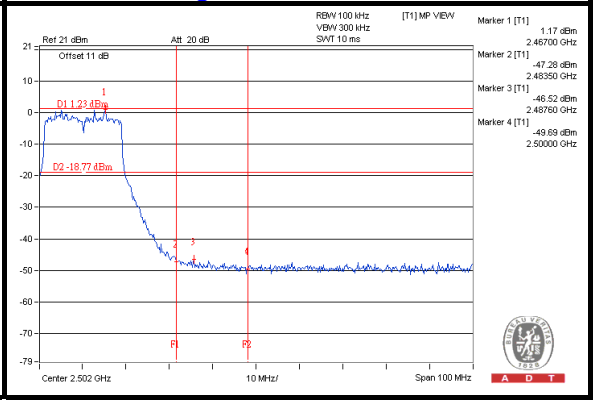




CH 1 Band edge

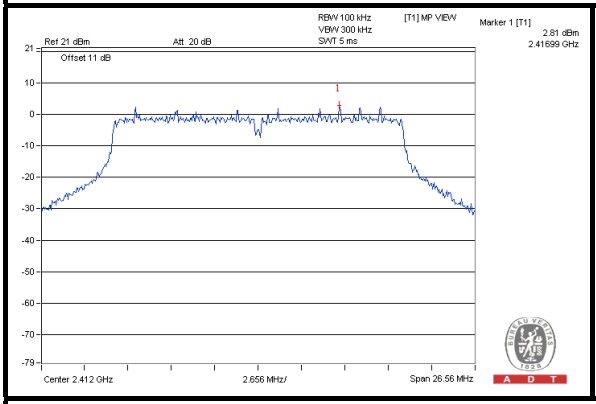


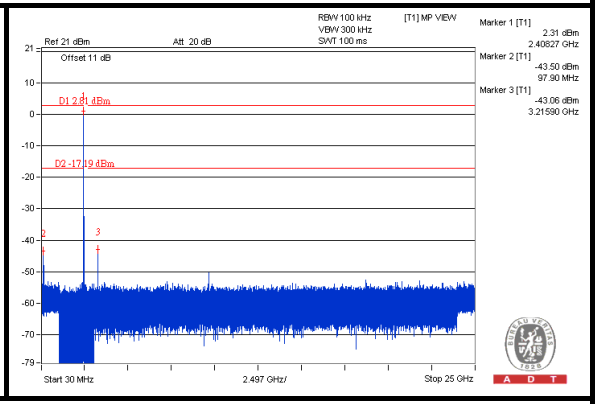
CH 11 Band edge



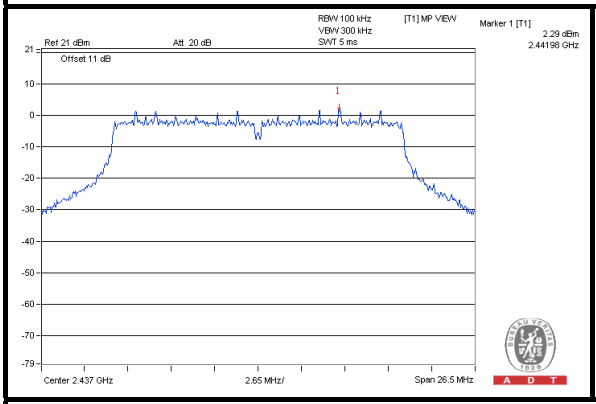
CHAIN 1

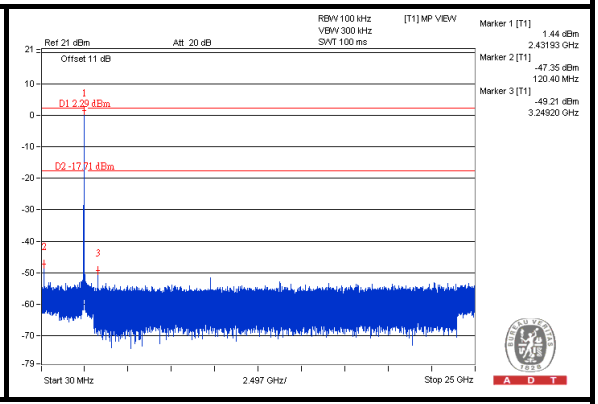
CH 1



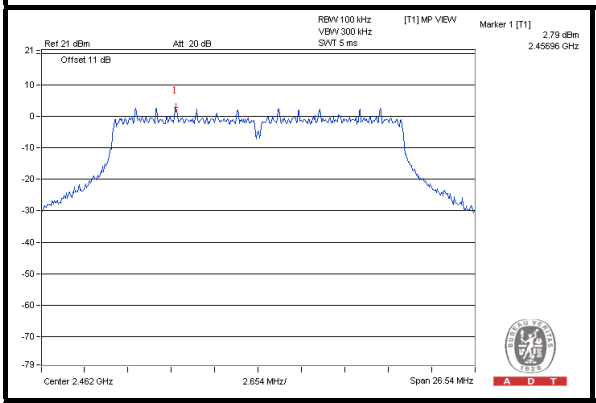


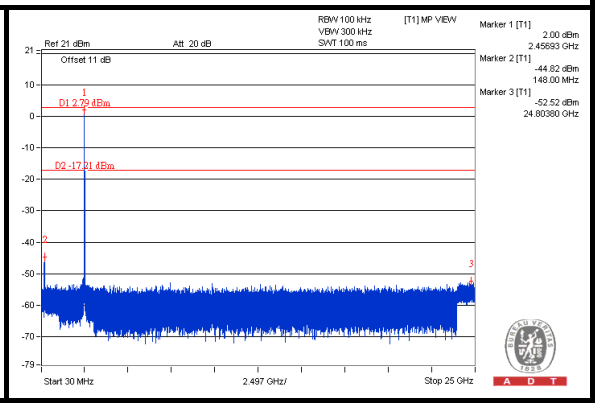
CH 6



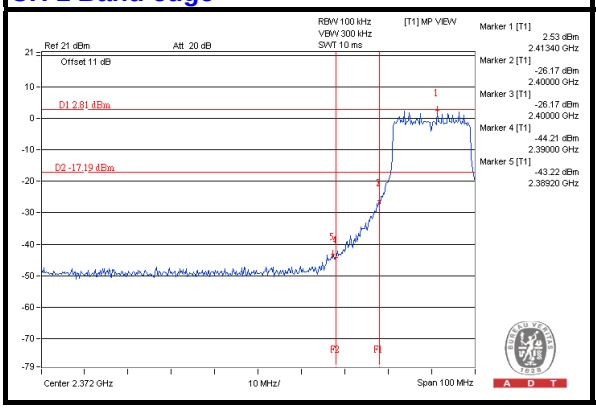


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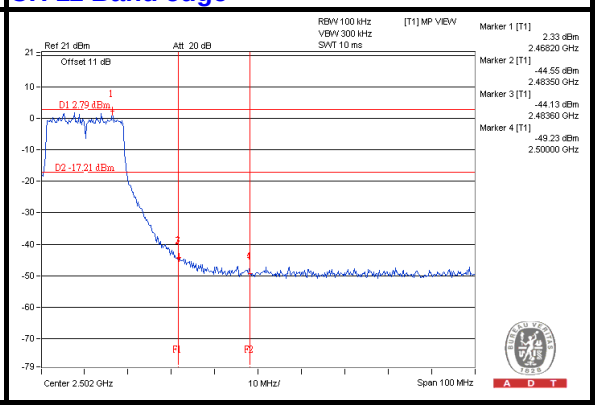




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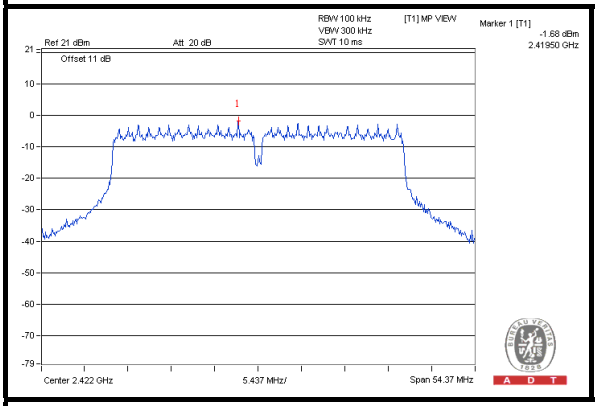
CH 11 Band edge

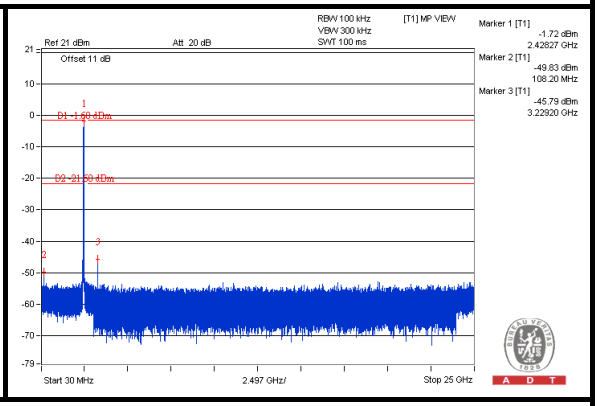


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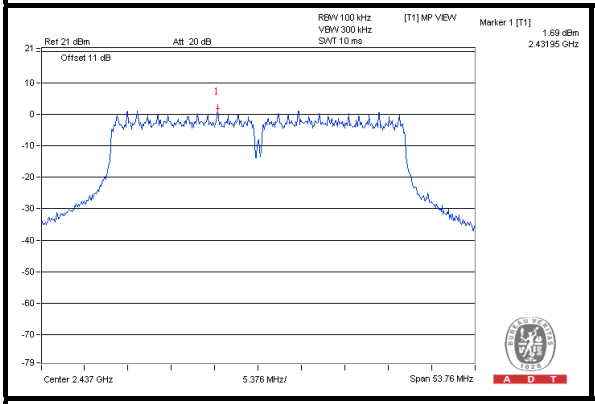
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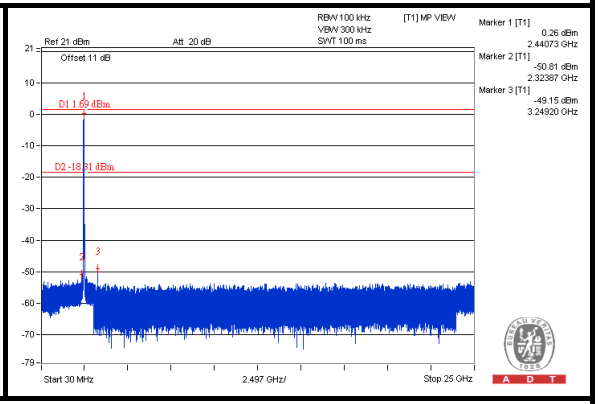
CH 3



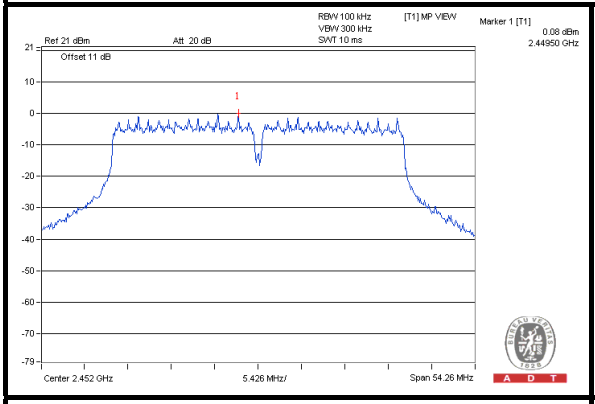


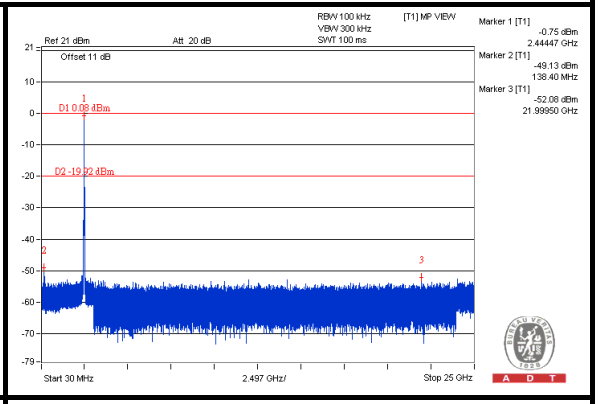
CH 6



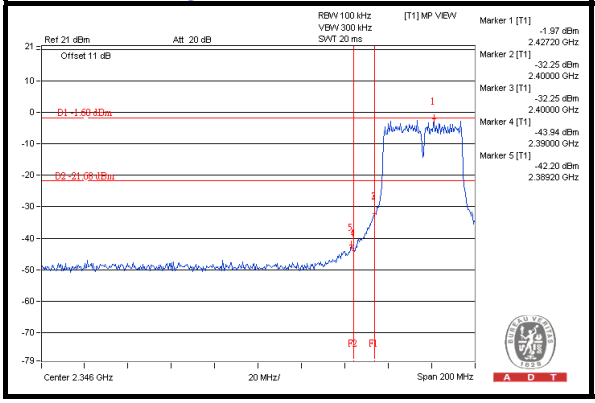


CH 9

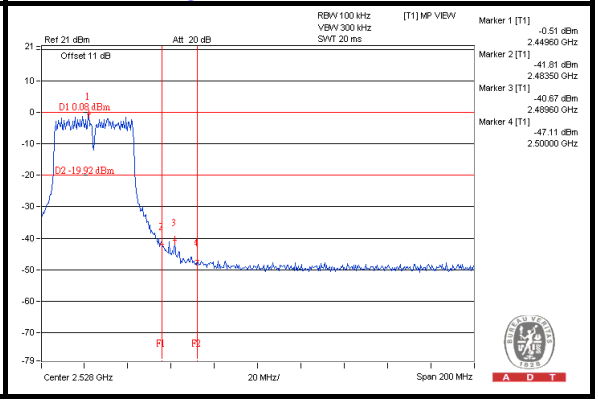




CH 3 Band edge

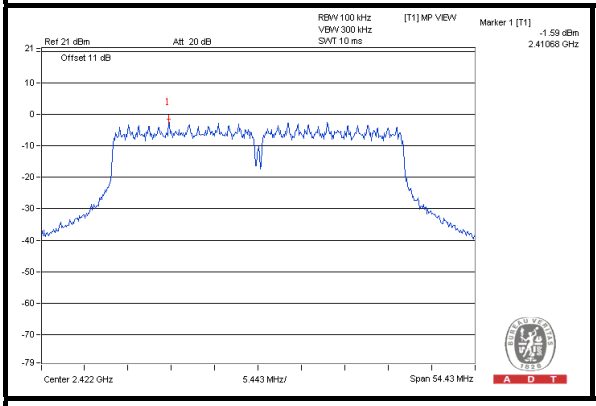


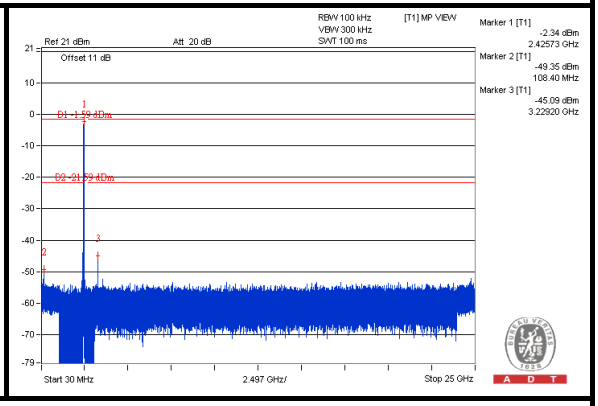
CH 9 Band edge



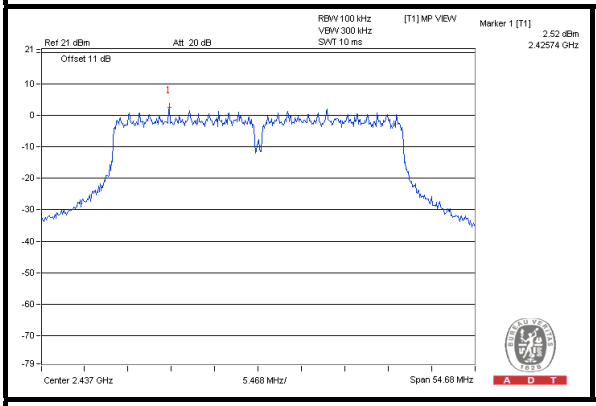
CHAIN 1

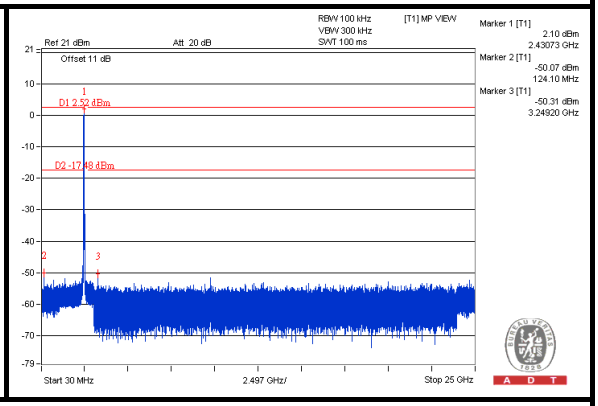
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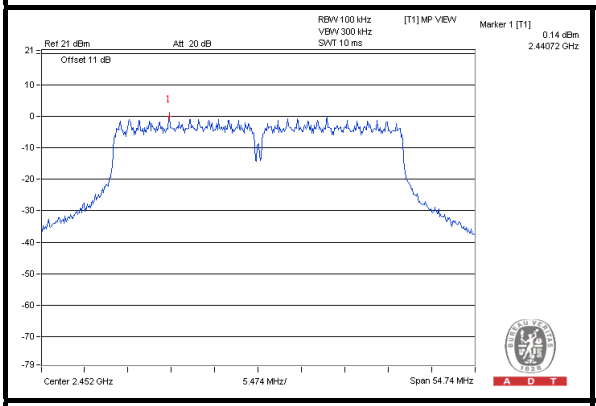


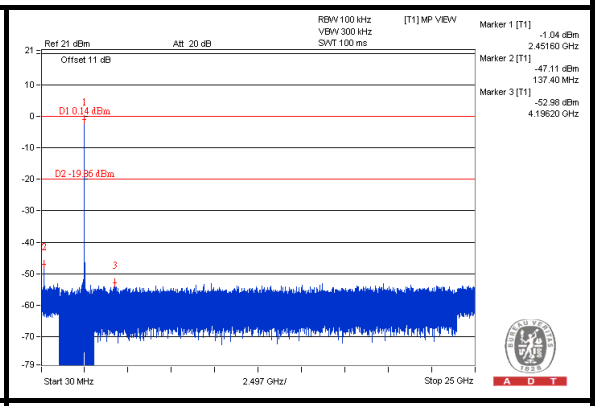
CH 6



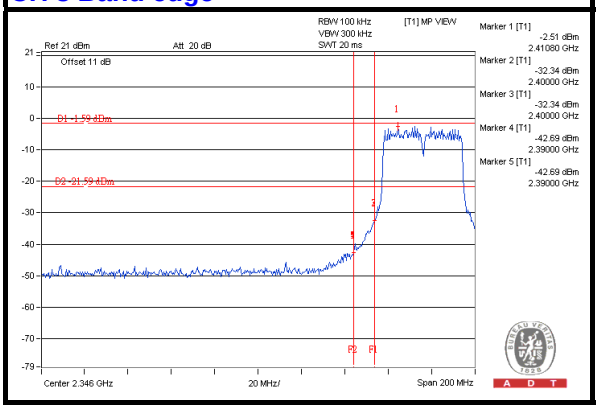


CH 9

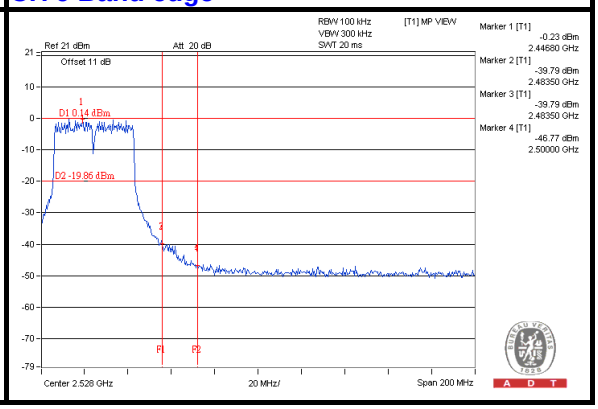




CH 3 Band edge



CH 9 Band edge

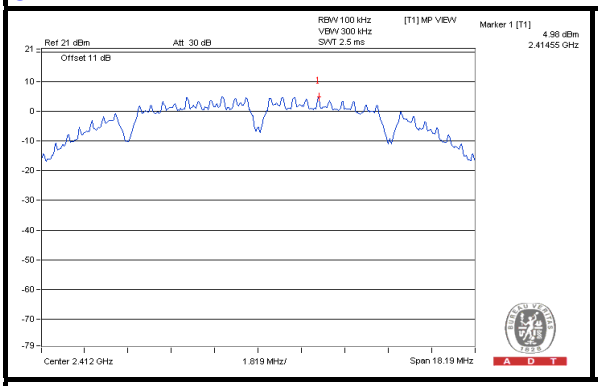


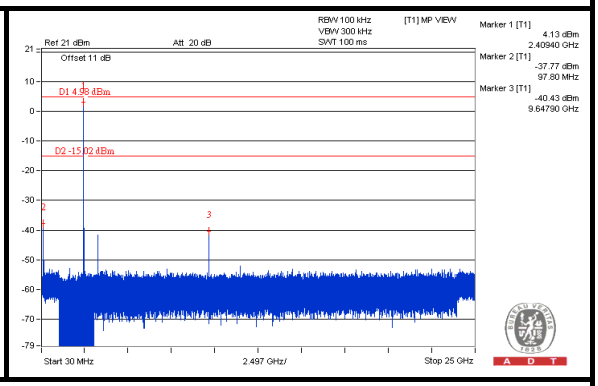
TEST MODE B 1

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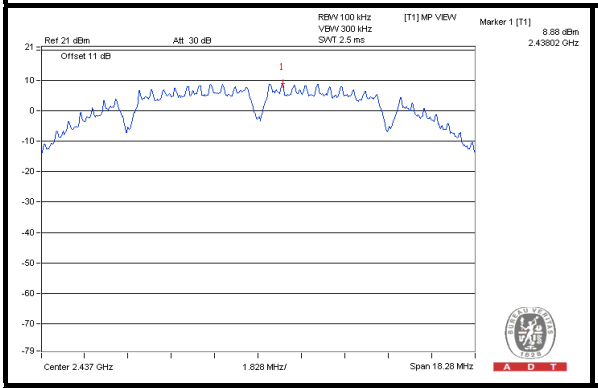
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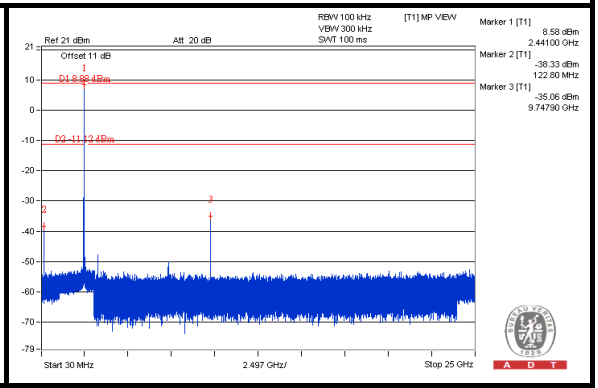
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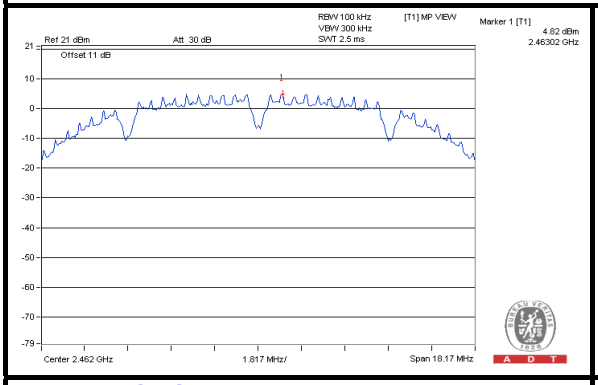


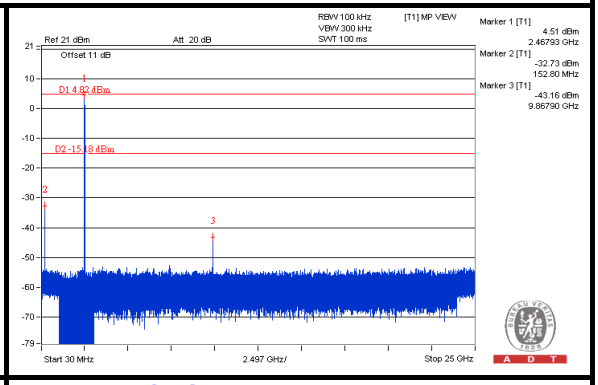
CH 6



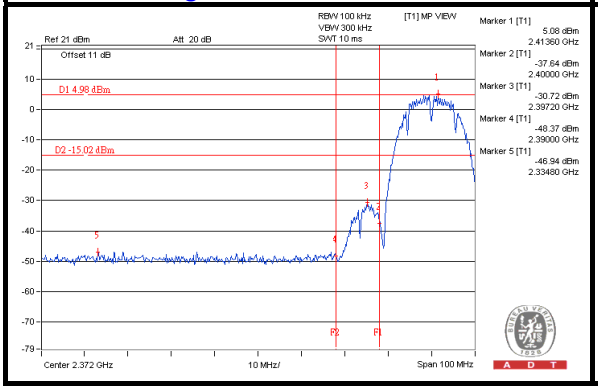


CH 11

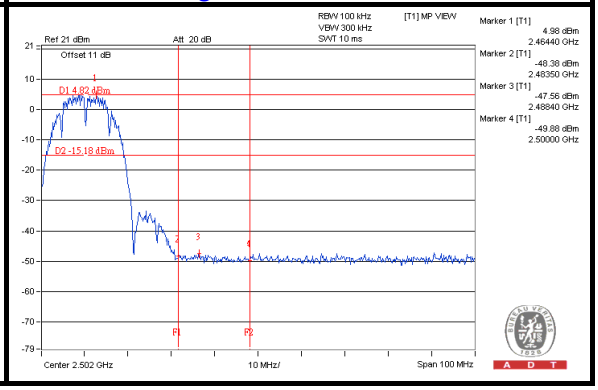




CH 1 Band edge

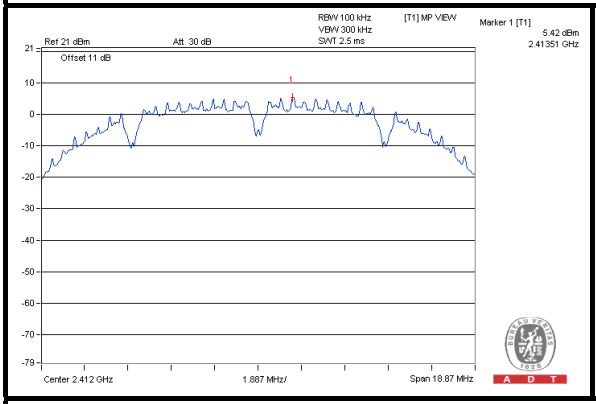


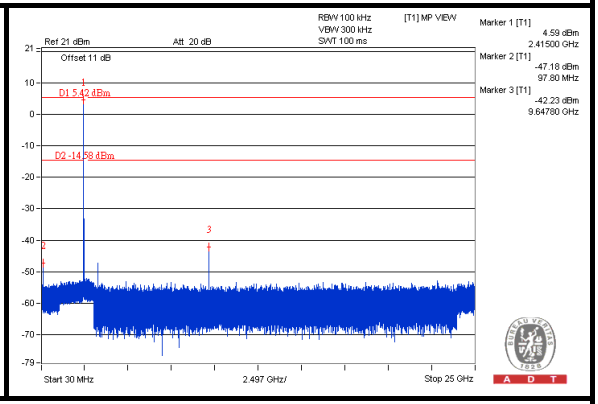
CH 11 Band edge



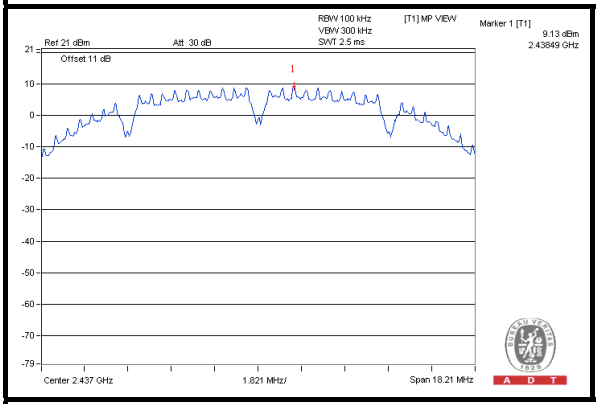
CHAIN 1

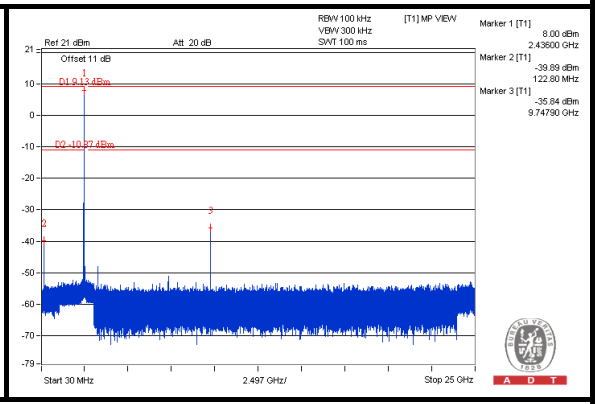
CH 1



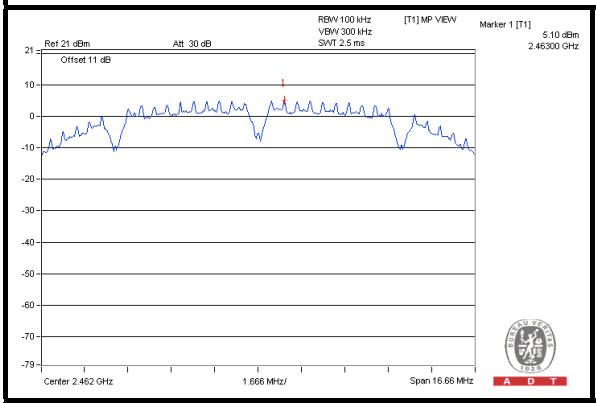


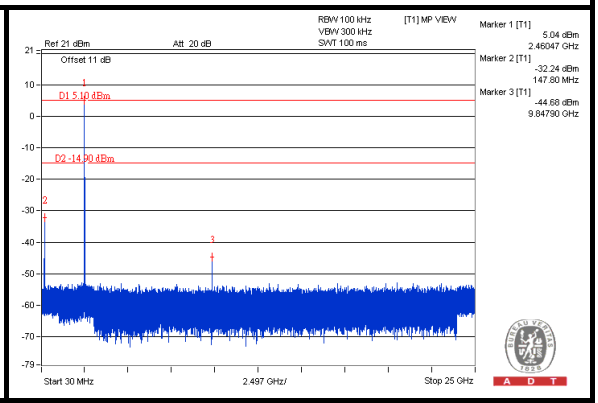
CH 6



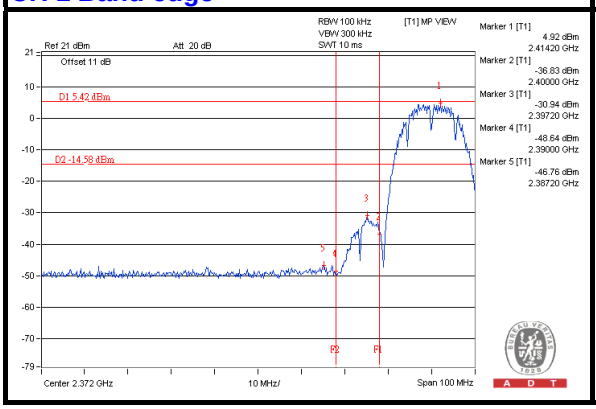


CH 11

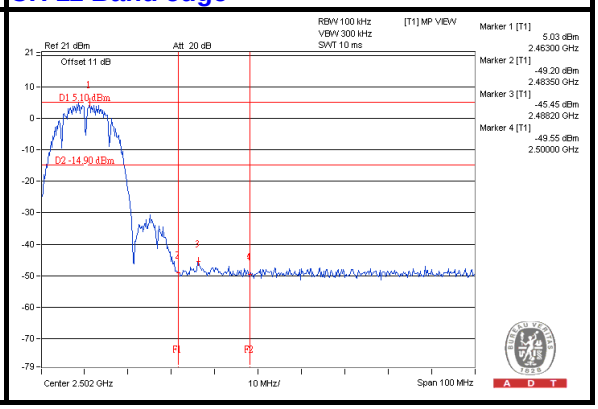




CH 1 Band edge



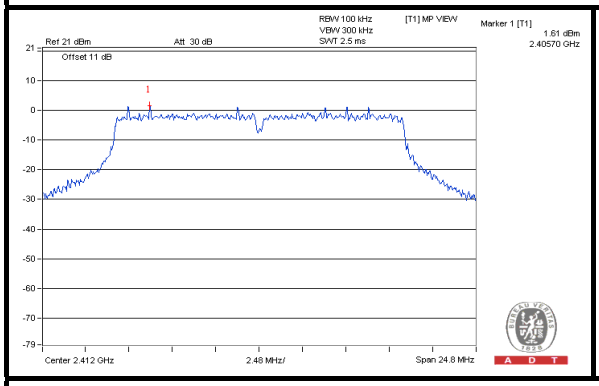
CH 11 Band edge

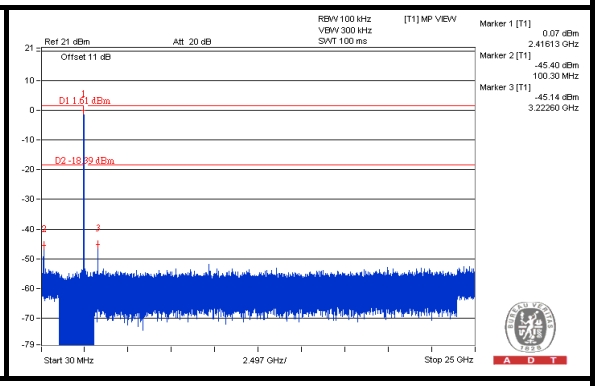


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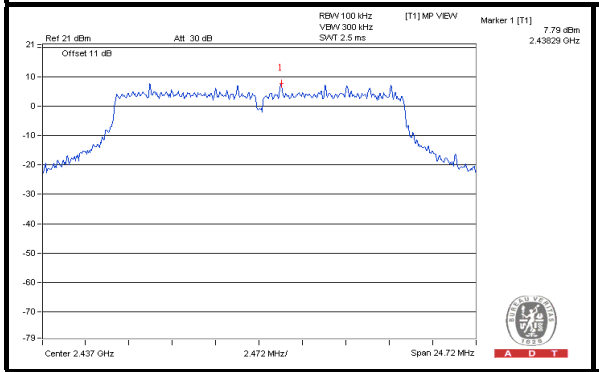
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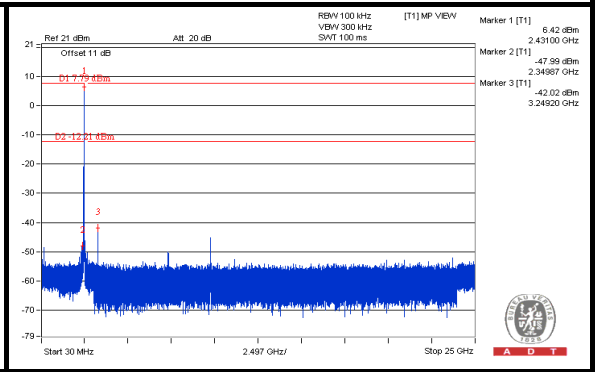
CH 1



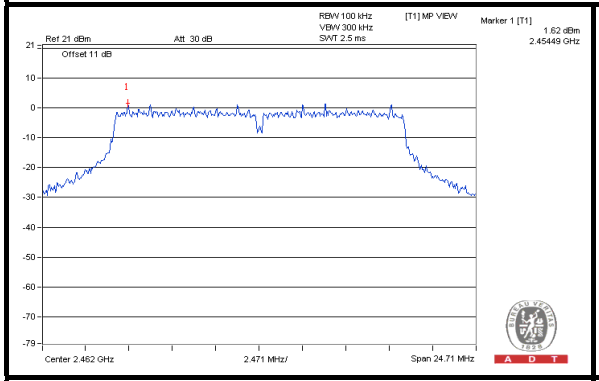


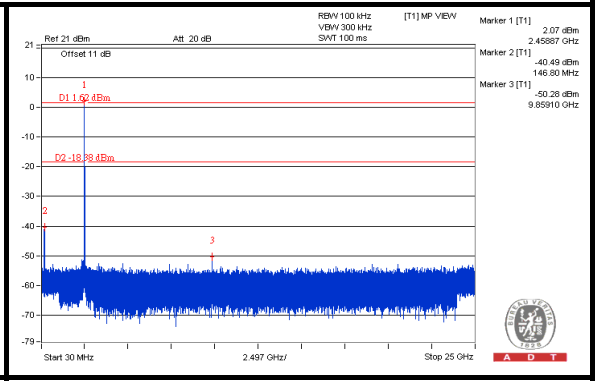
CH 6



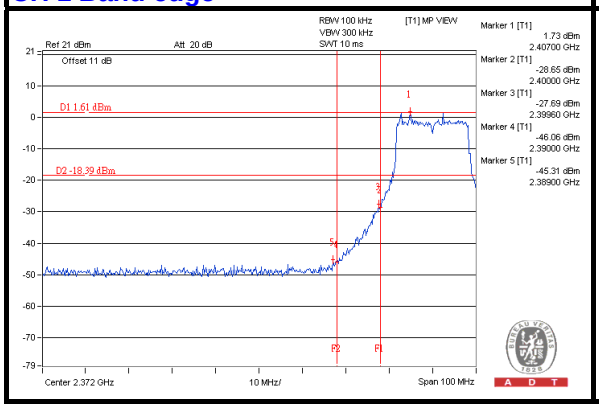


CH 11

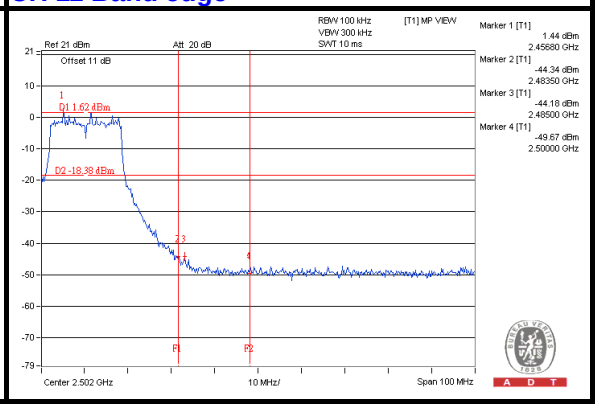




CH 1 Band edge

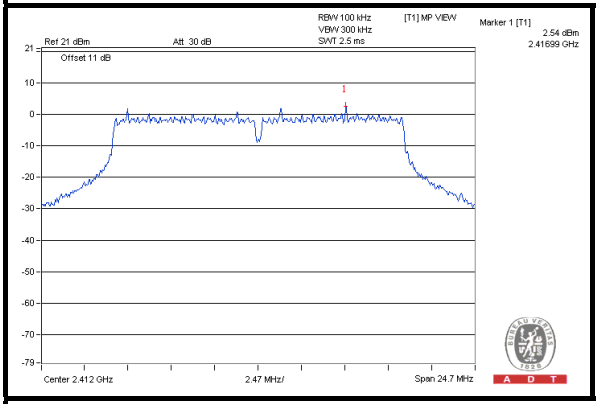


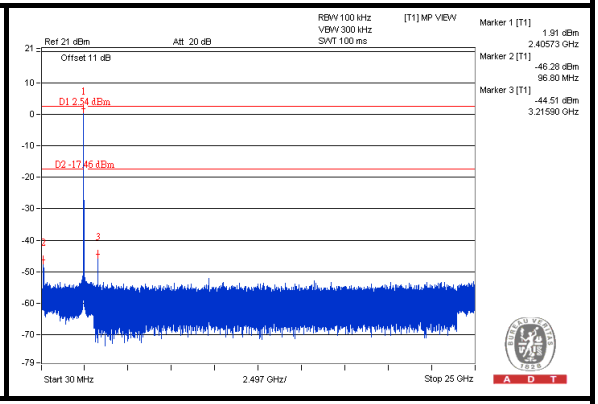
CH 11 Band edge



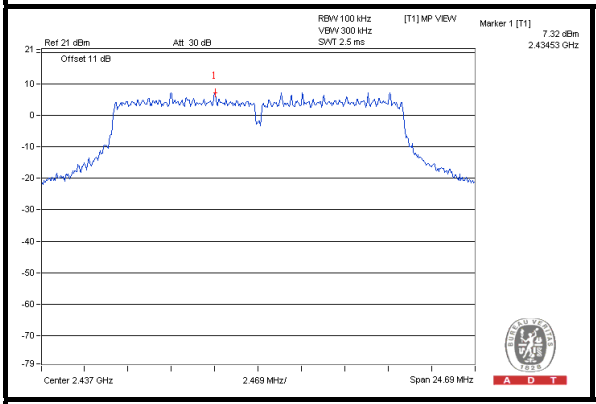
CHAIN 1

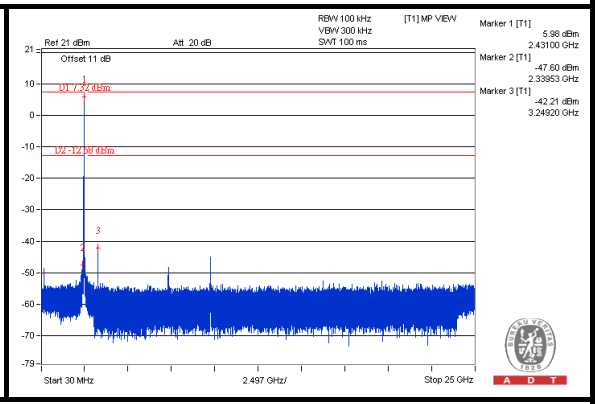
CH 1



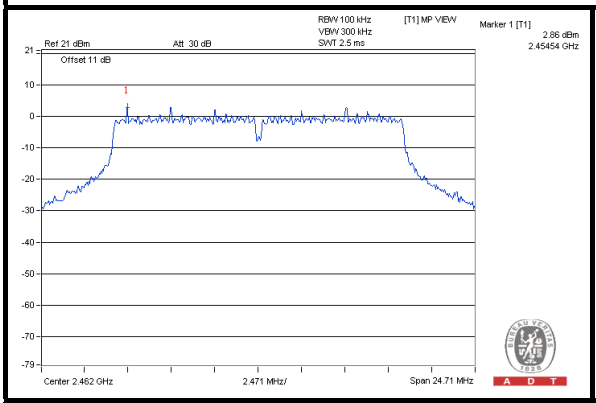


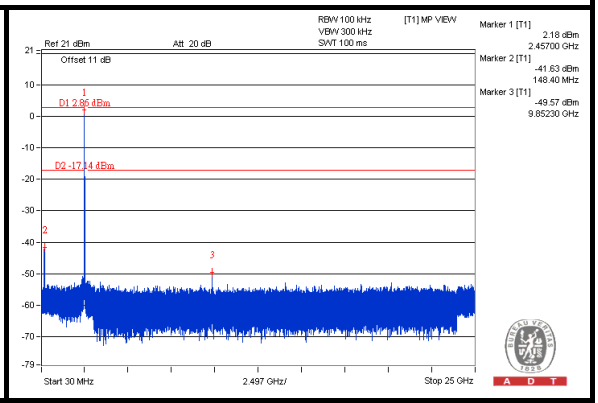
CH 6



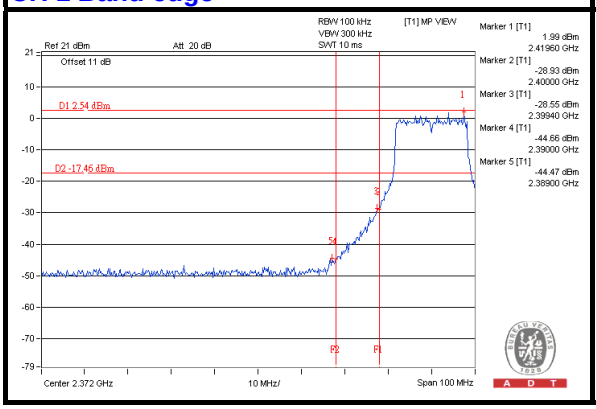


CH 11

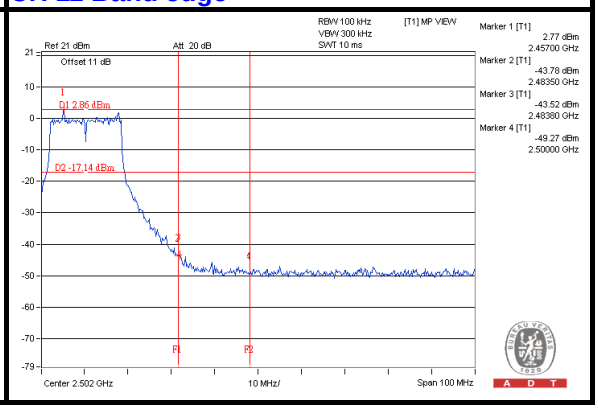




CH 1 Band edge

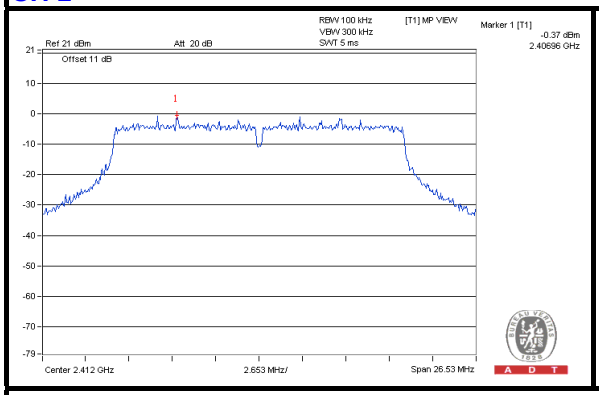


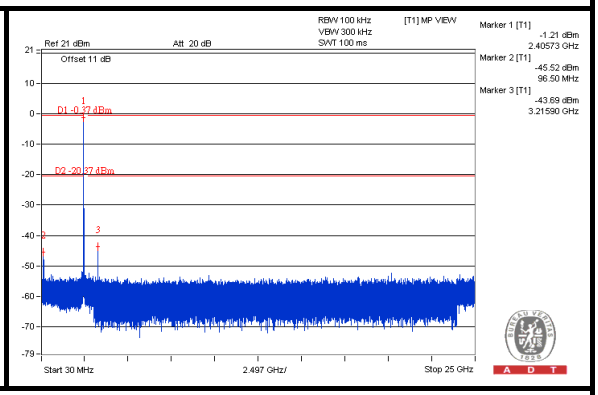
CH 11 Band edge



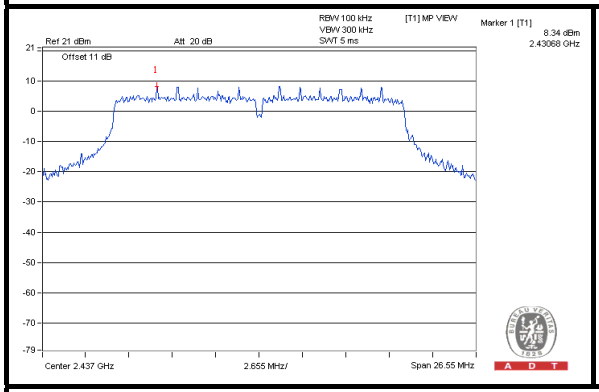
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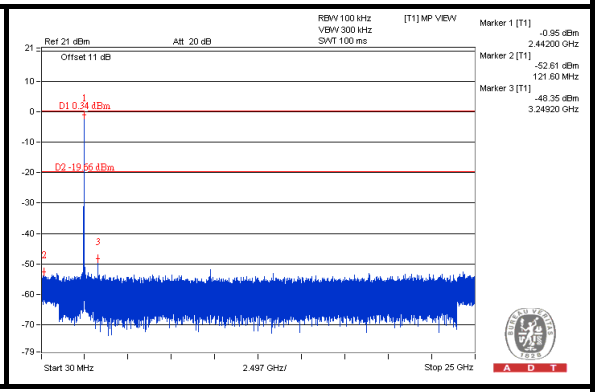
CH 1



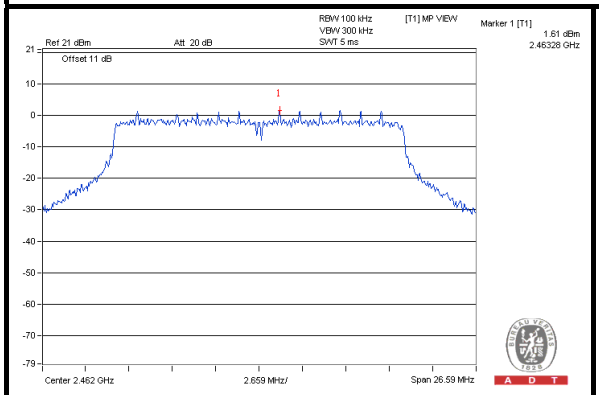


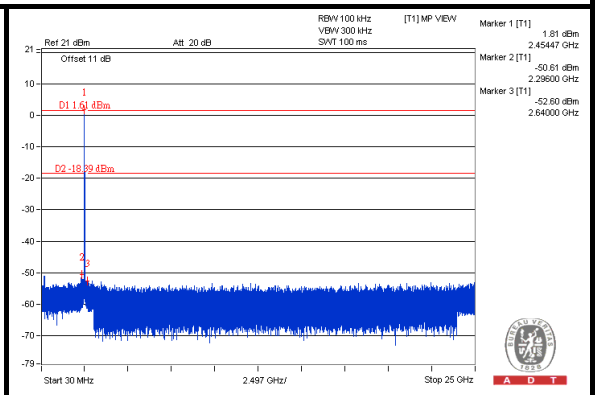
CH 6



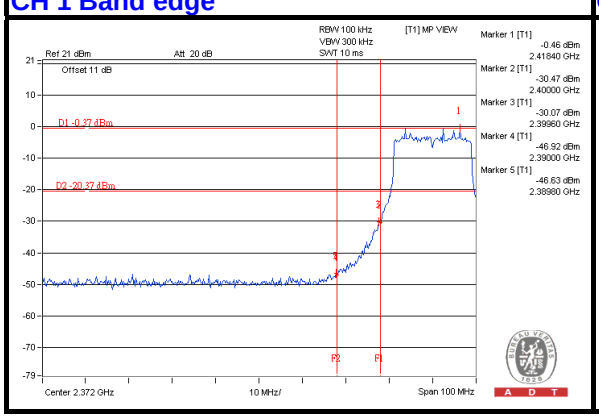


CH 11

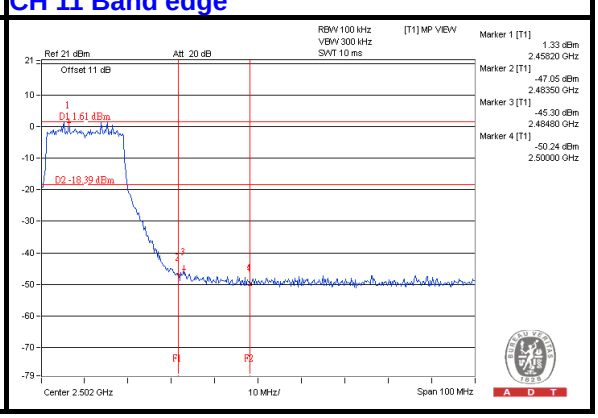




CH 1 Band edge

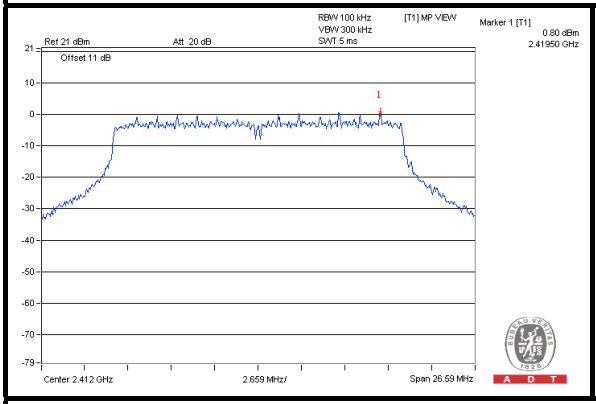


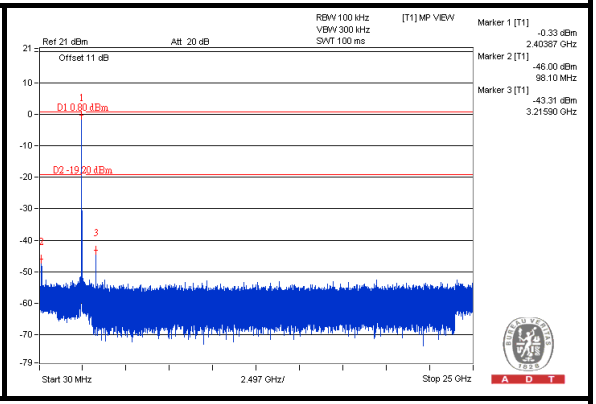
CH 11 Band edge



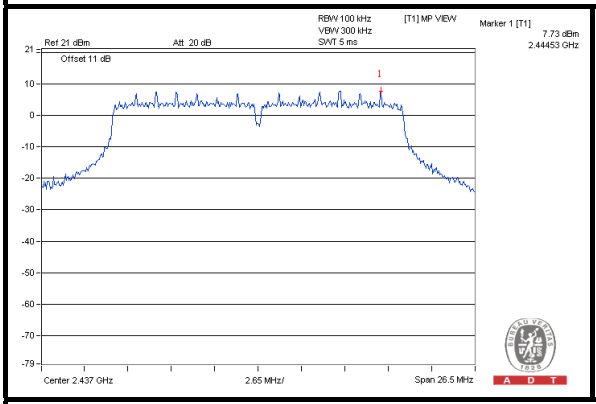
CHAIN 1

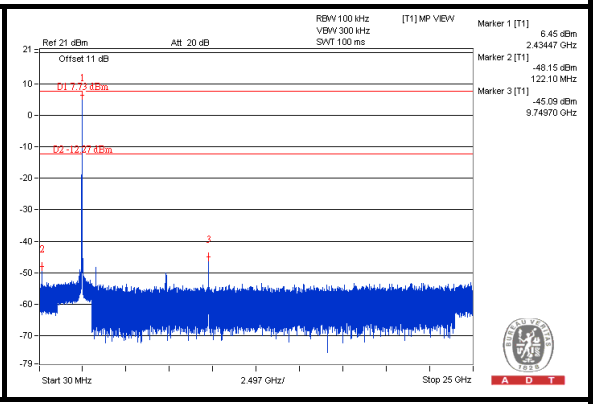
CH 1



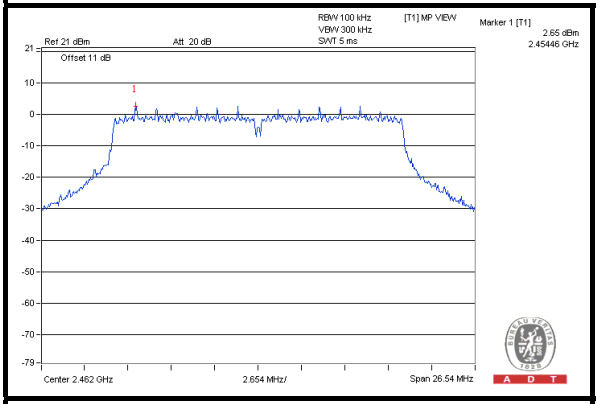


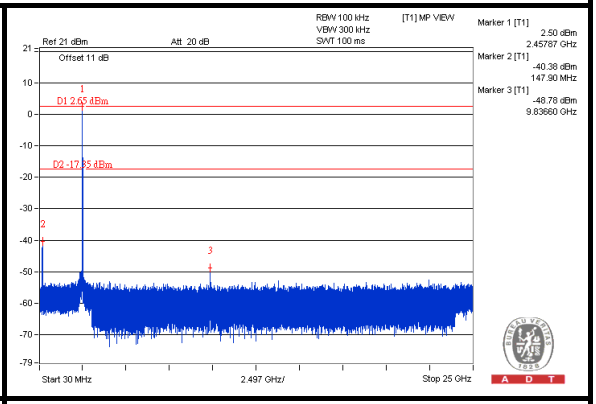
CH 6



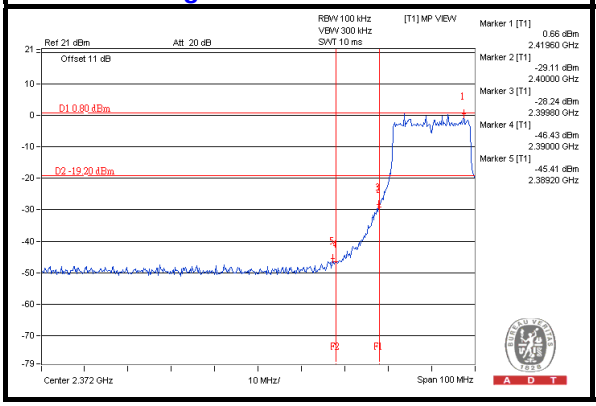


CH 11

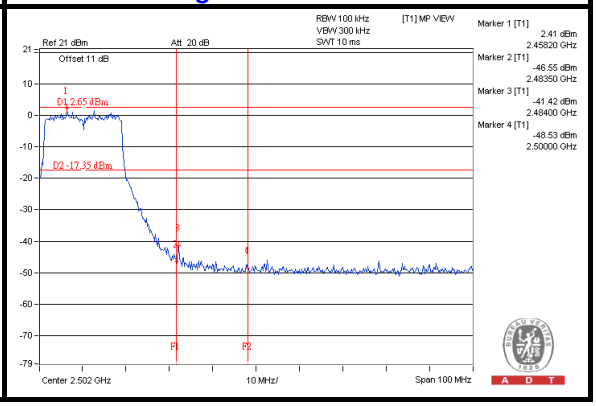




CH 1 Band edge

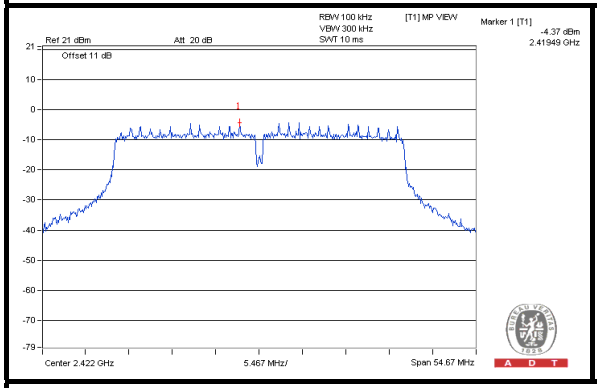


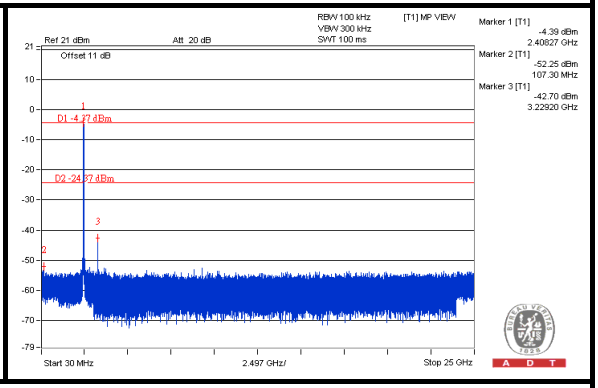
CH 11 Band edge



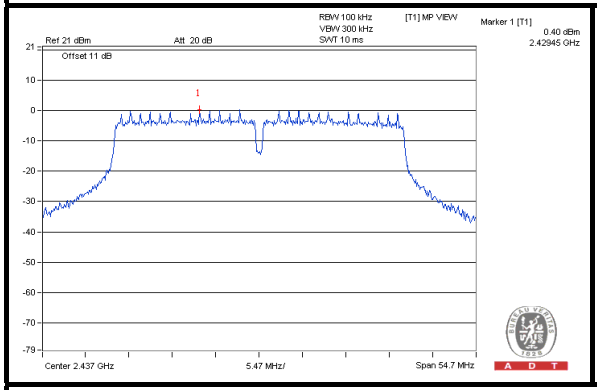
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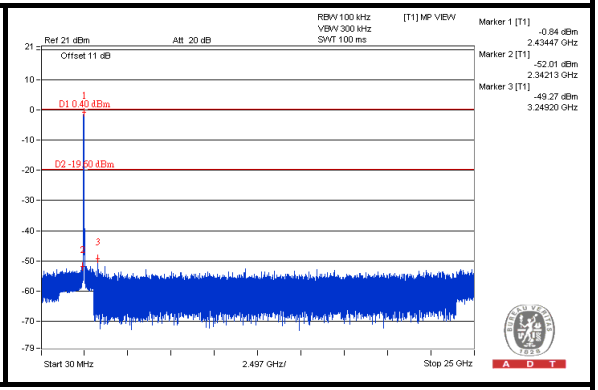
CH 3



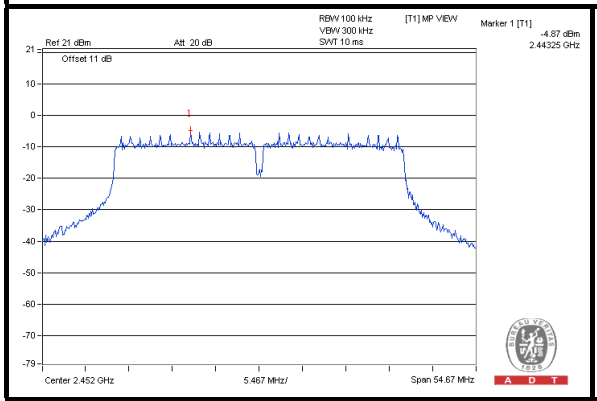


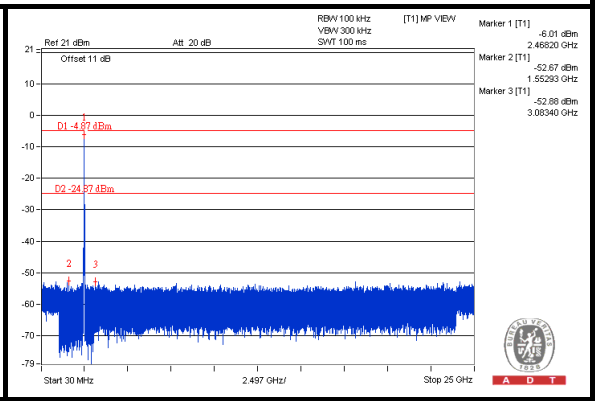
CH 6



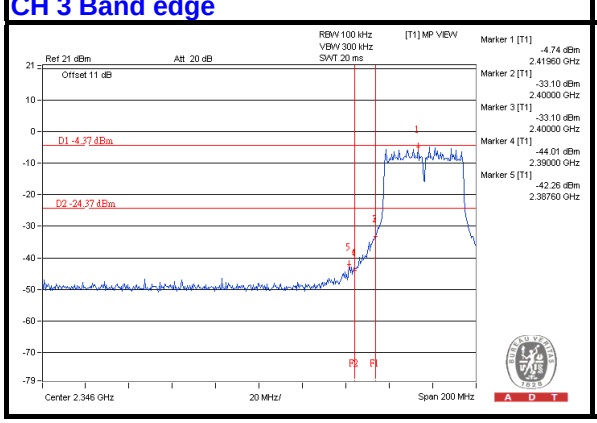


CH 9

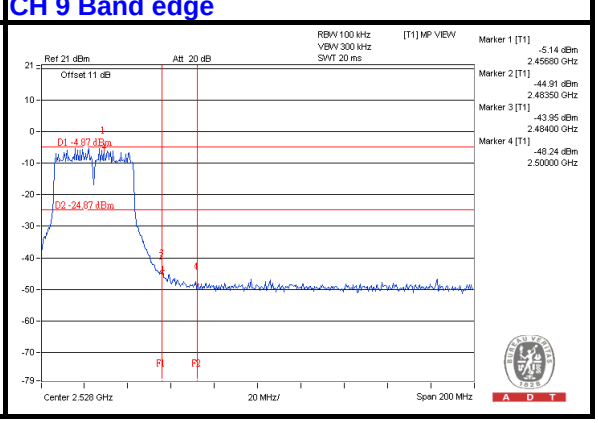




CH 3 Band edge

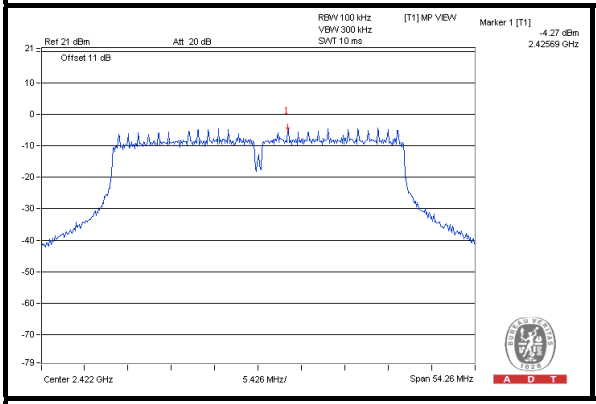


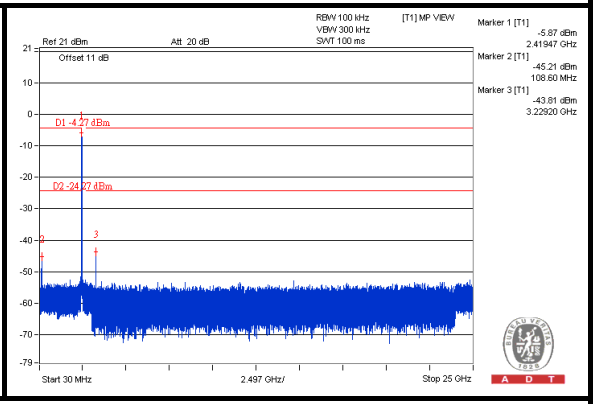
CH 9 Band edge



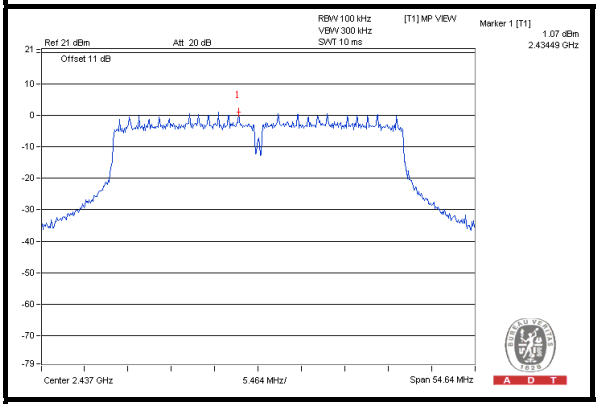
CHAIN 1

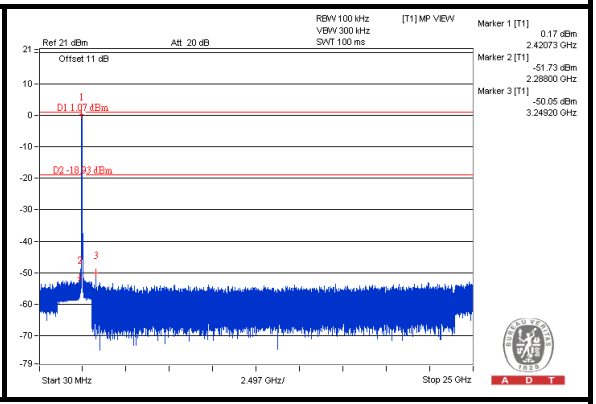
CH 3



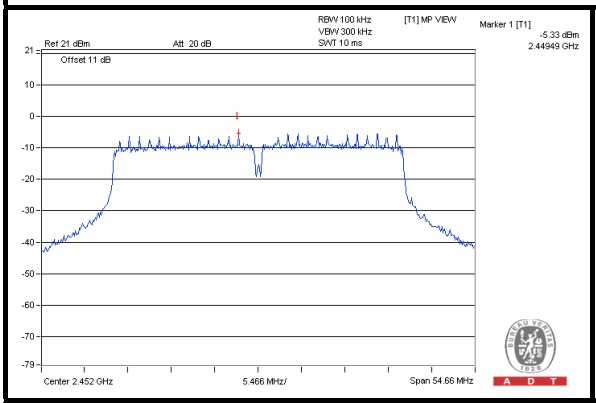


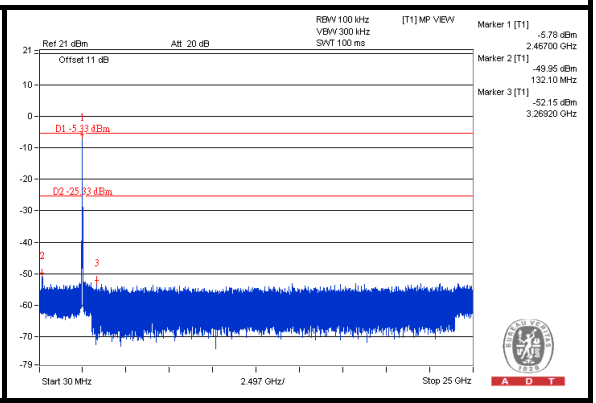
CH 6



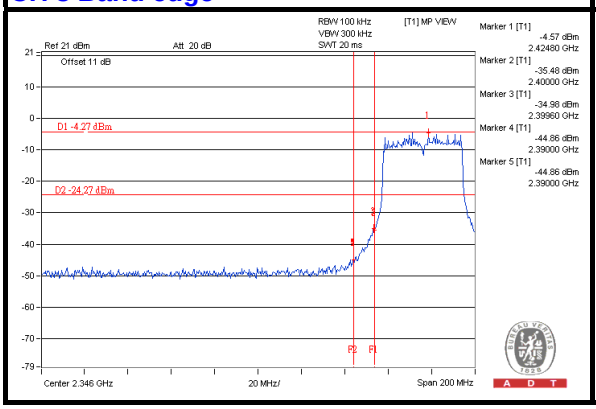


CH 9

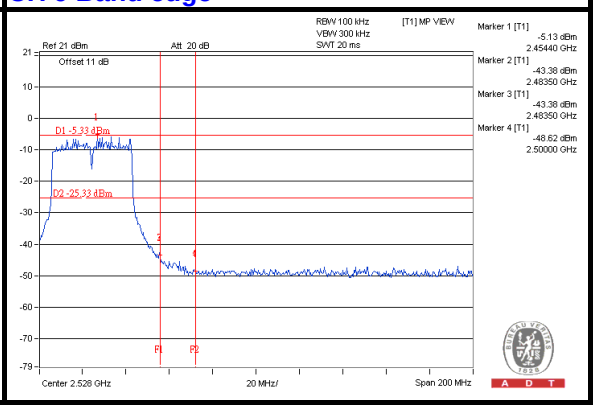




CH 3 Band edge



CH 9 Band edge

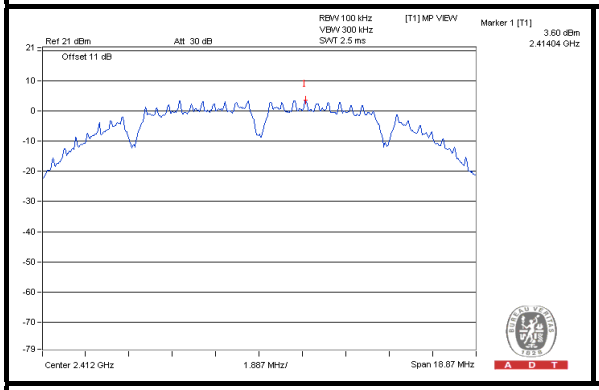


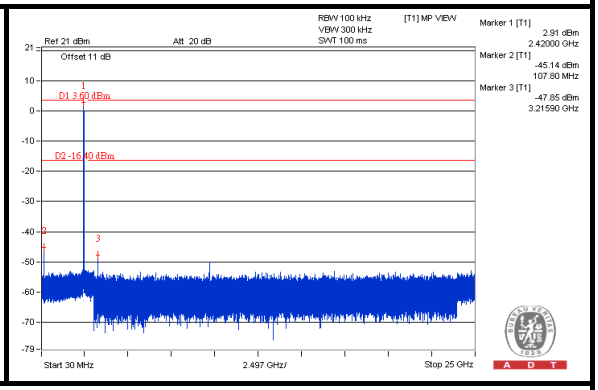
TEST MODE B 2

802.11b

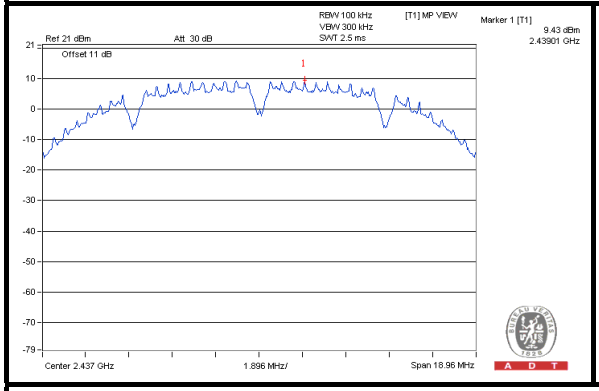
CHAIN 0

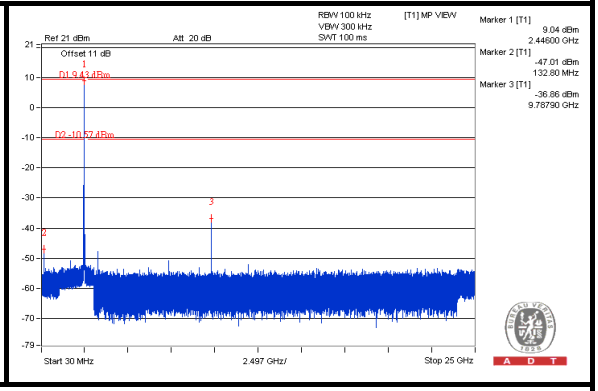
CH 1



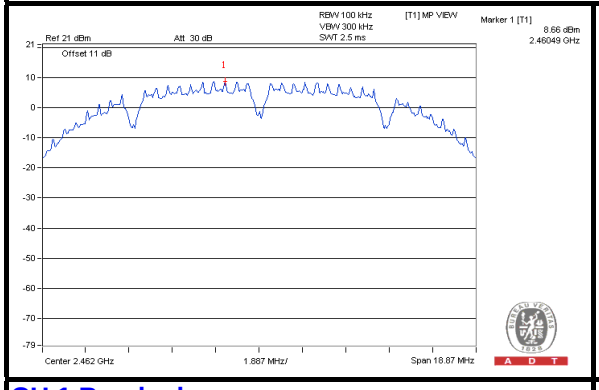


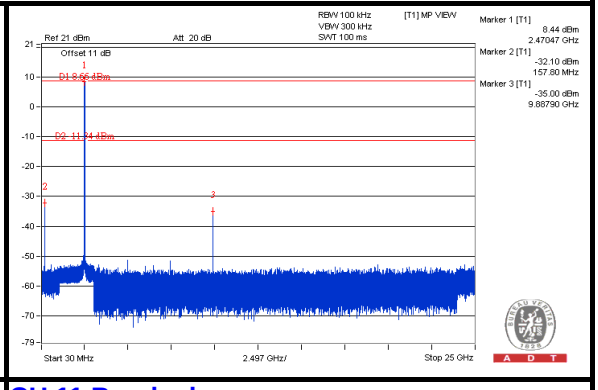
CH 6



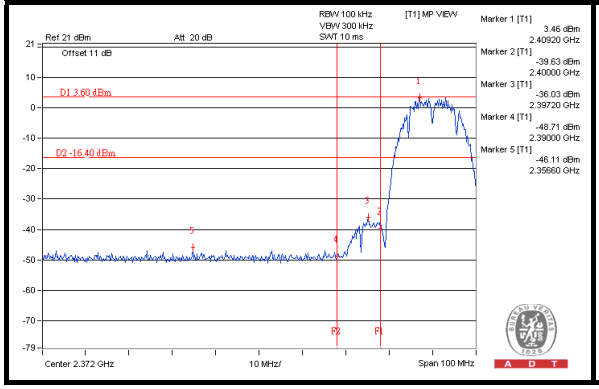


CH 11

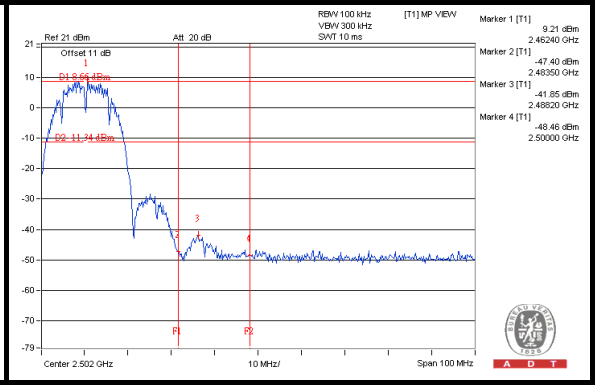




CH 1 Band edge

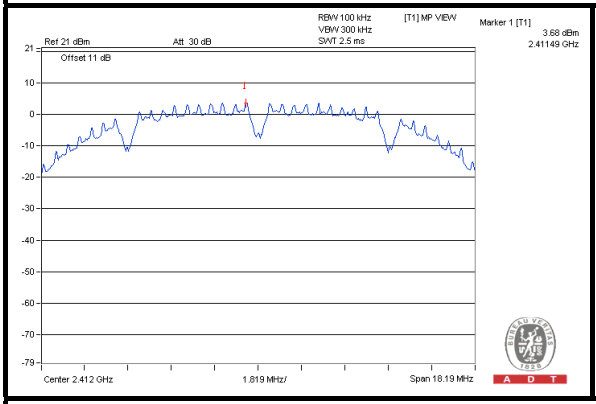


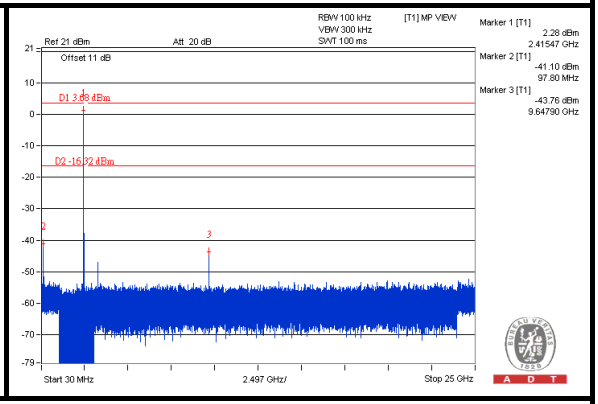
CH 11 Band edge



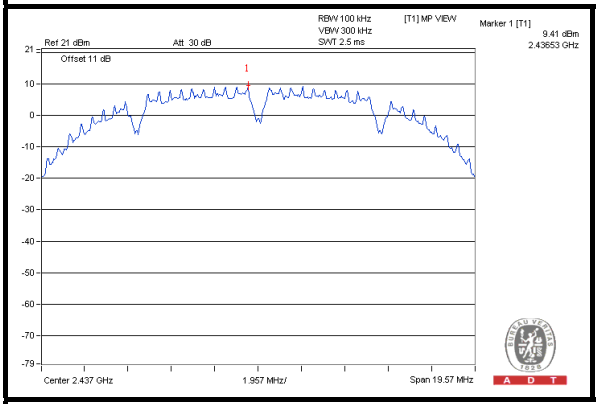
CHAIN 1

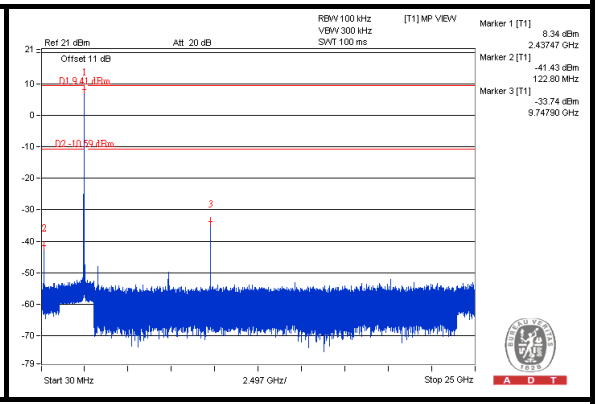
CH 1



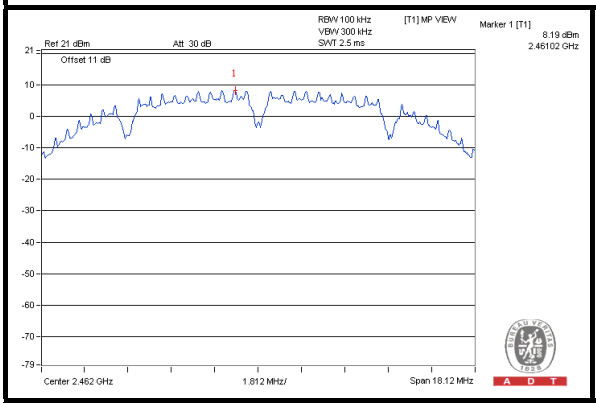


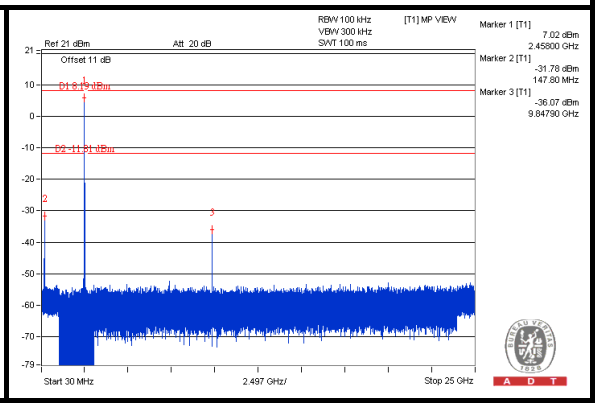
CH 6



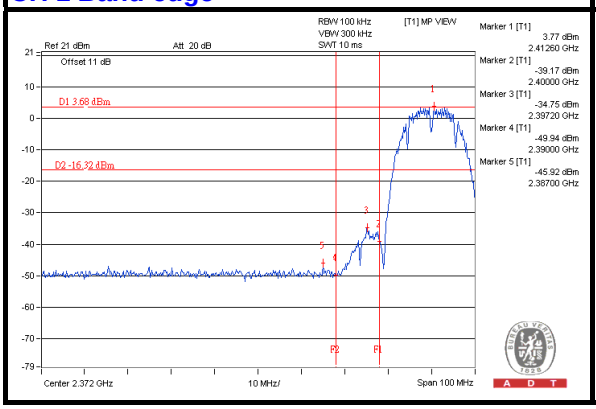


CH 11

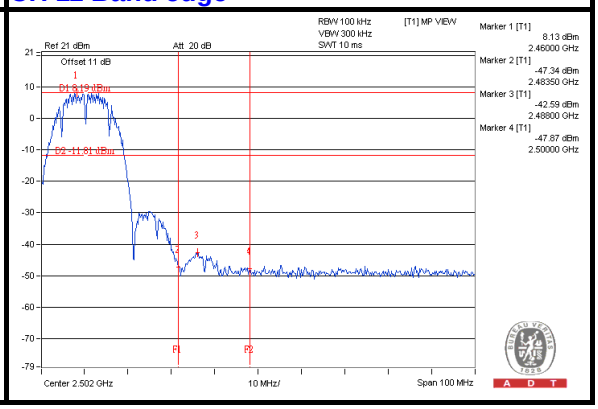




CH 1 Band edge



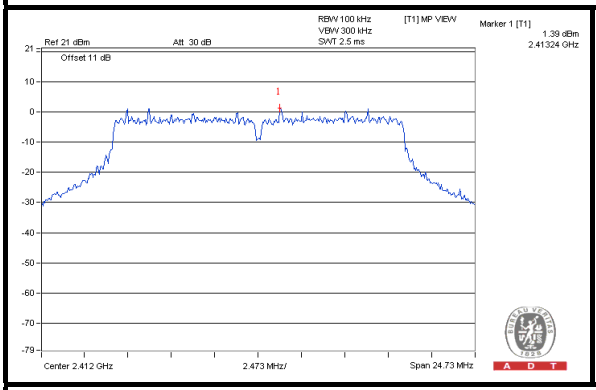
CH 11 Band edge

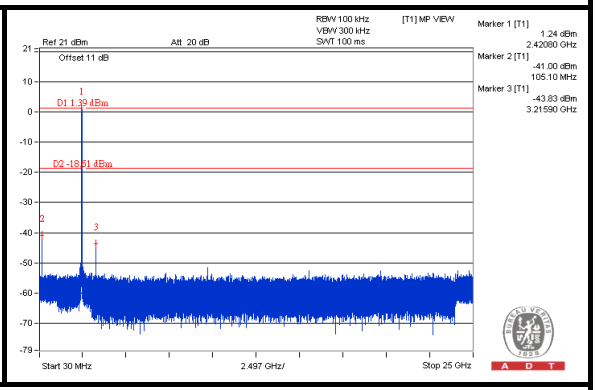


802.11g

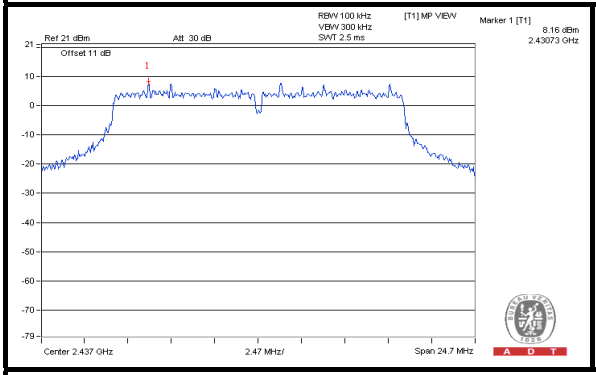
CHAIN 0

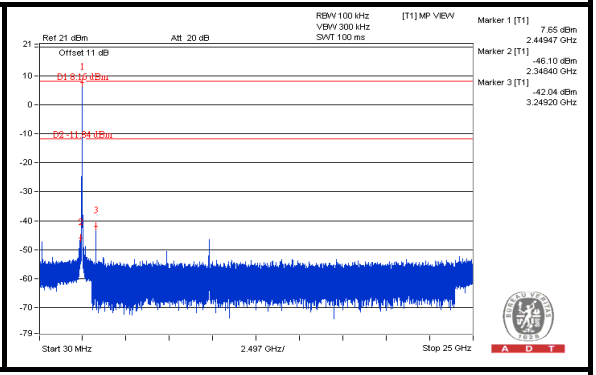
CH 1



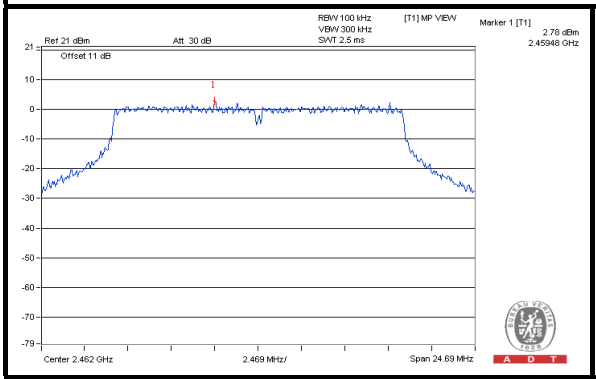


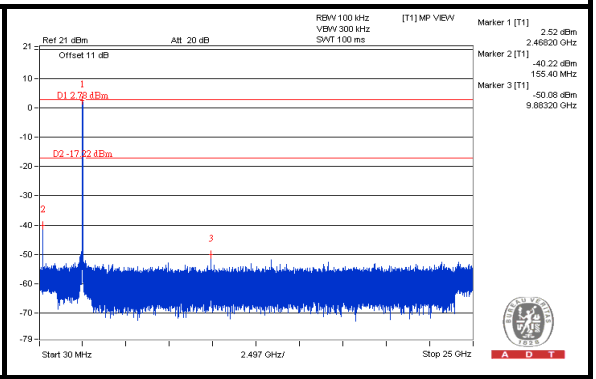
CH 6



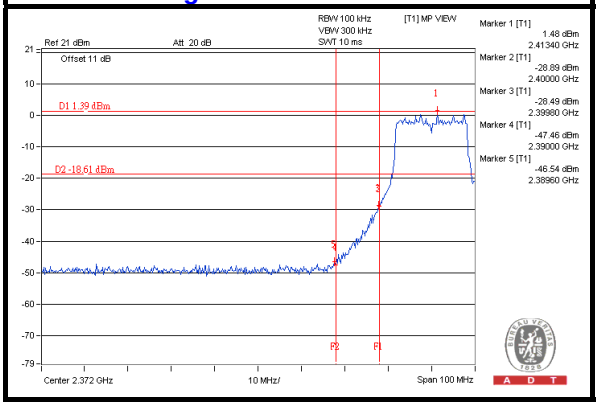


CH 11

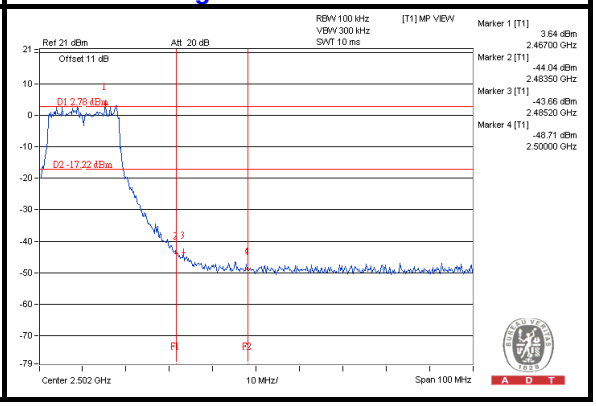




CH 1 Band edge

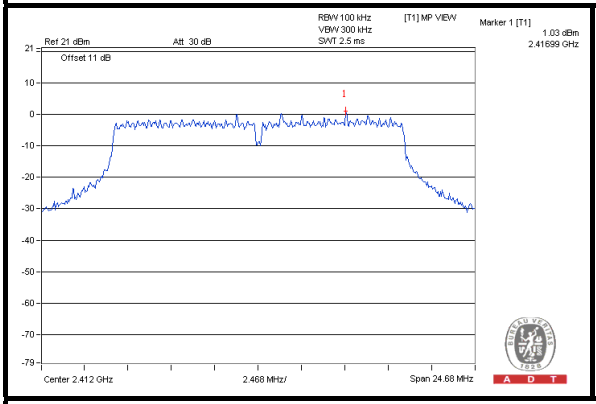


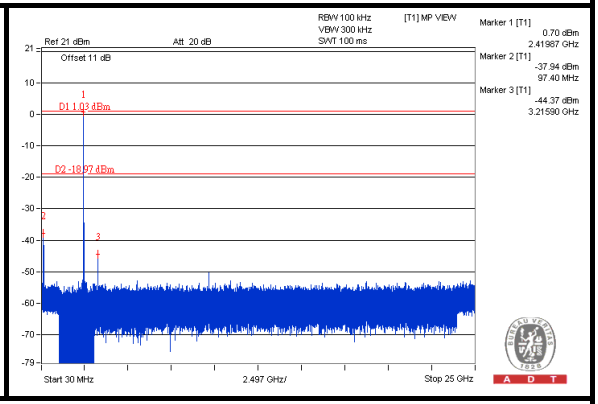
CH 11 Band edge



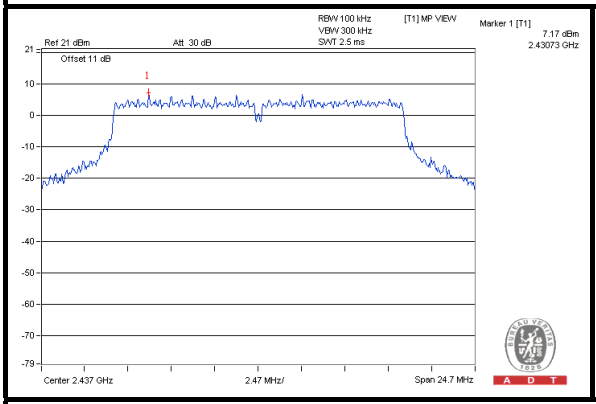
CHAIN 1

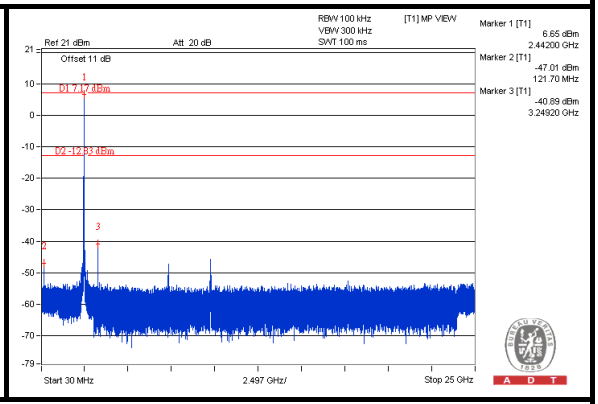
CH 1



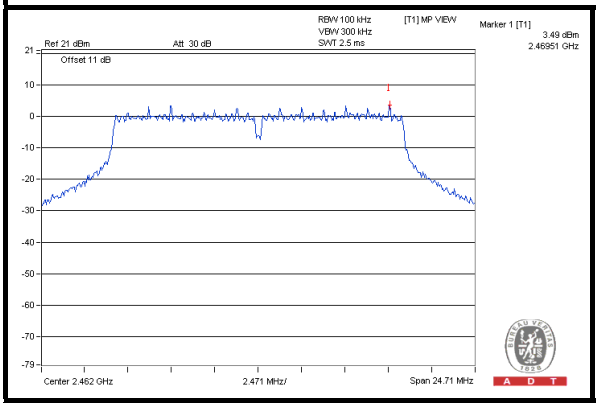


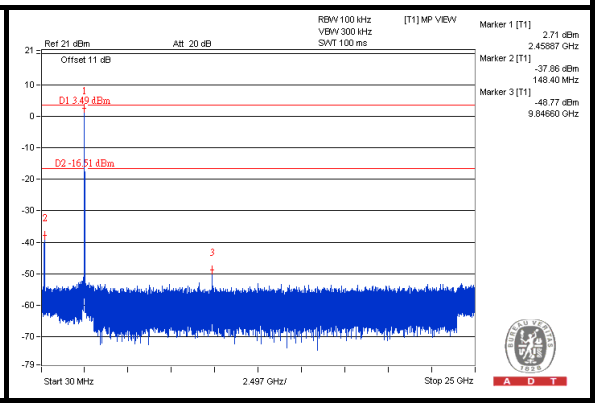
CH 6



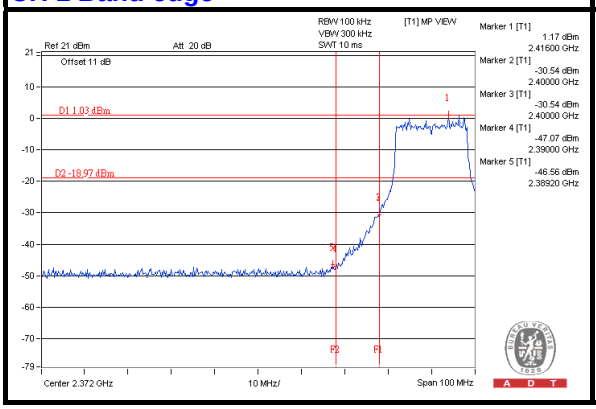


CH 11

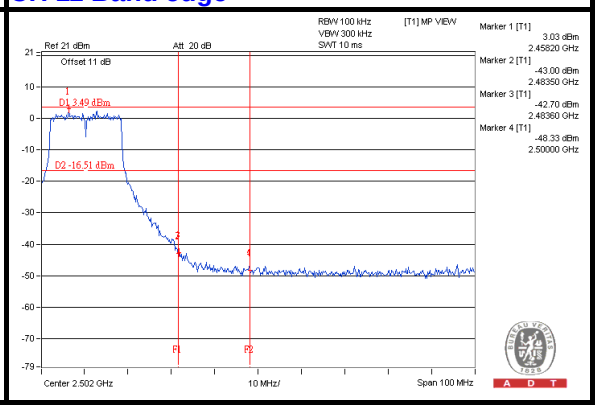




CH 1 Band edge



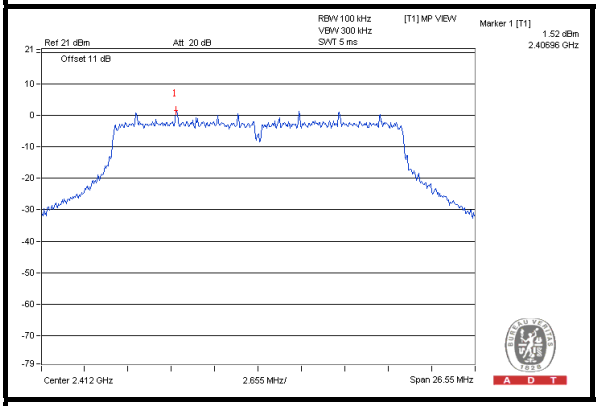
CH 11 Band edge

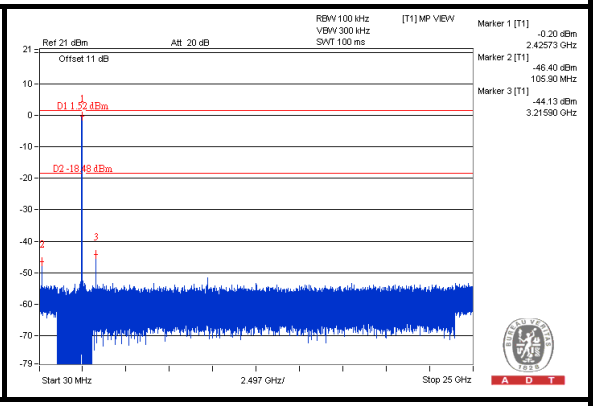


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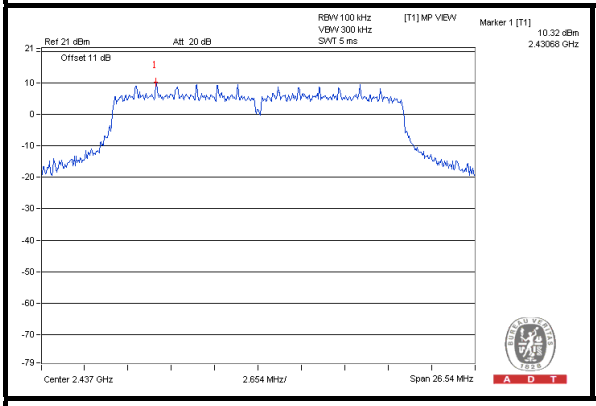
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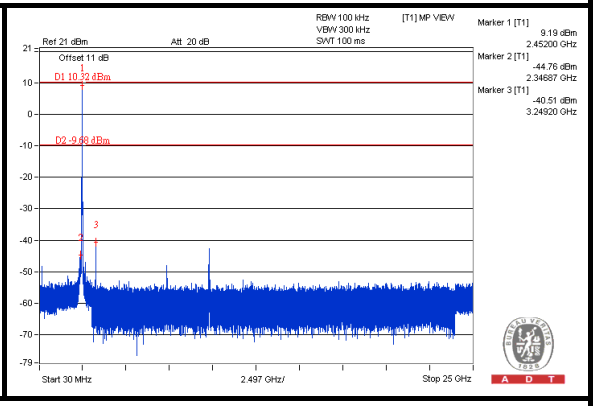
CH 1



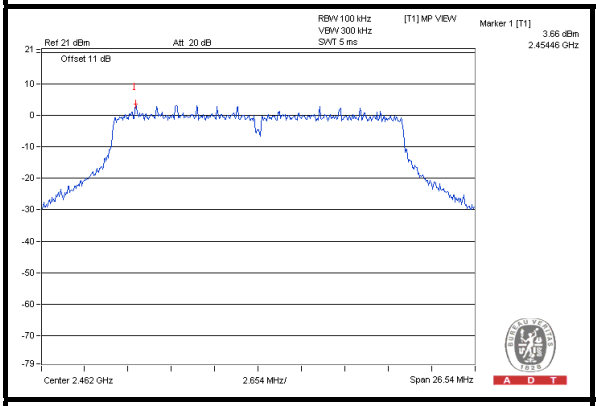


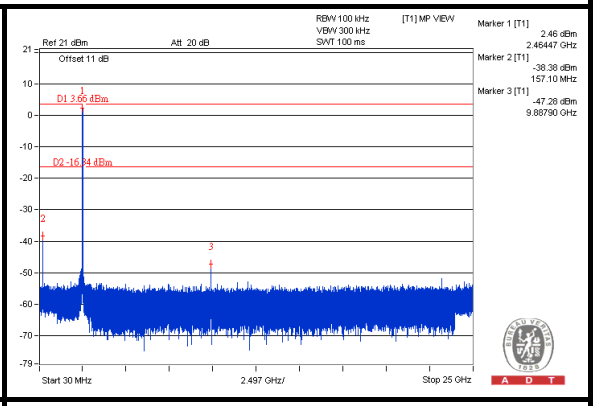
CH 6



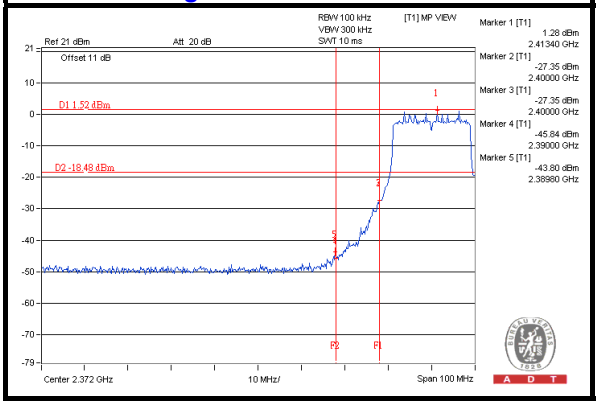


CH 11

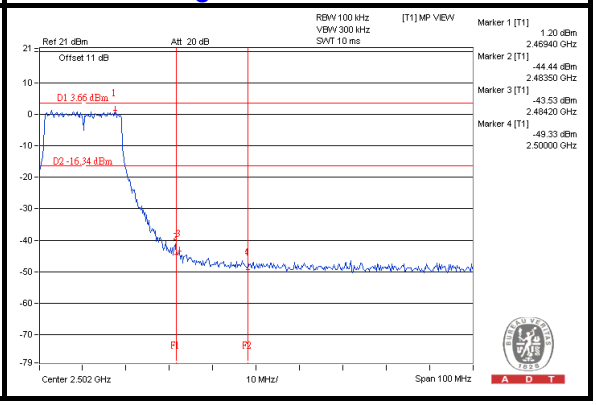




CH 1 Band edge

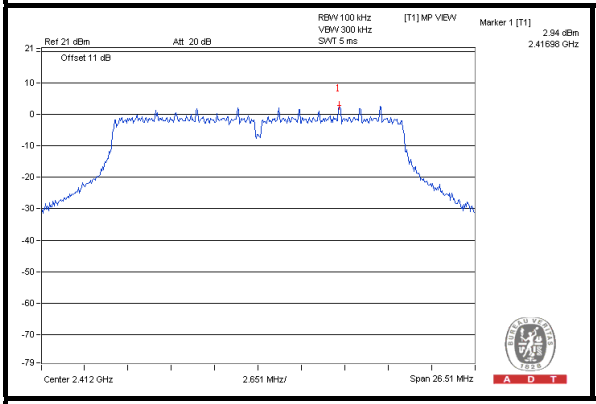


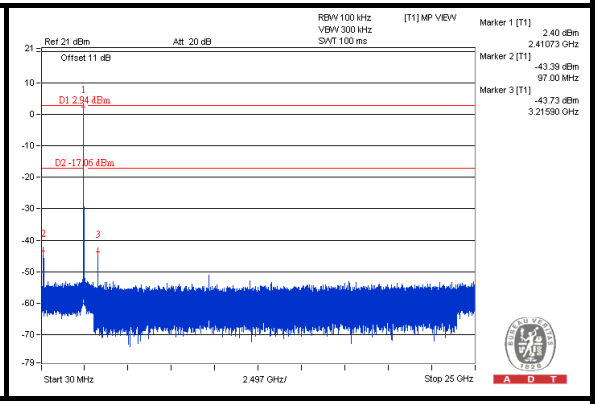
CH 11 Band edge



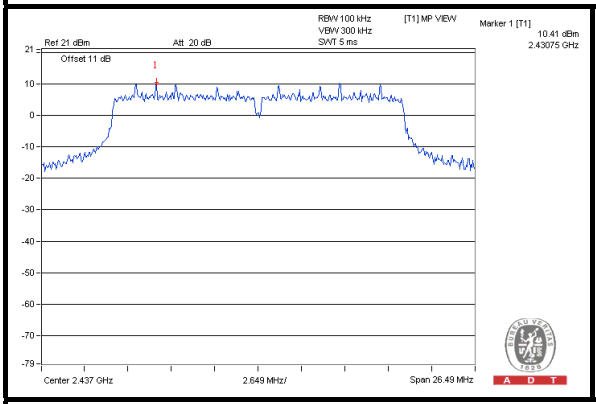
CHAIN 1

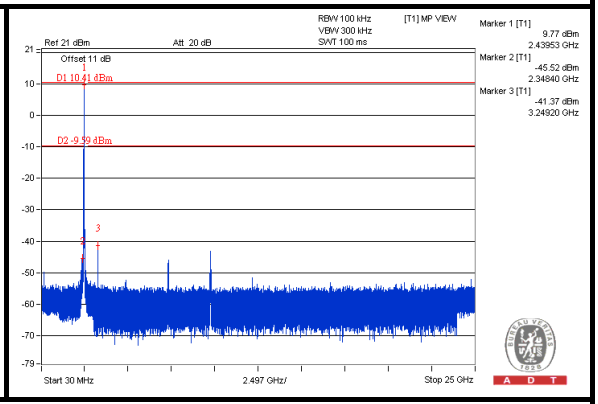
CH 1



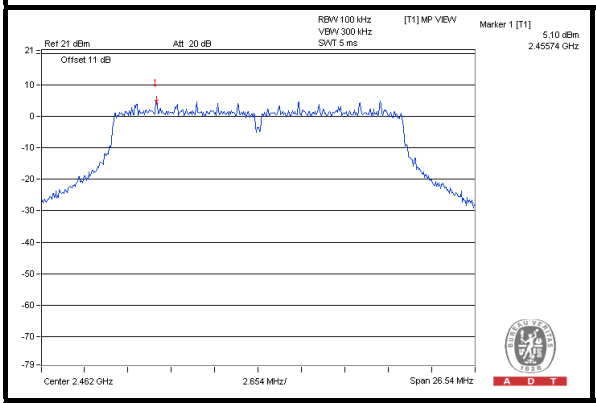


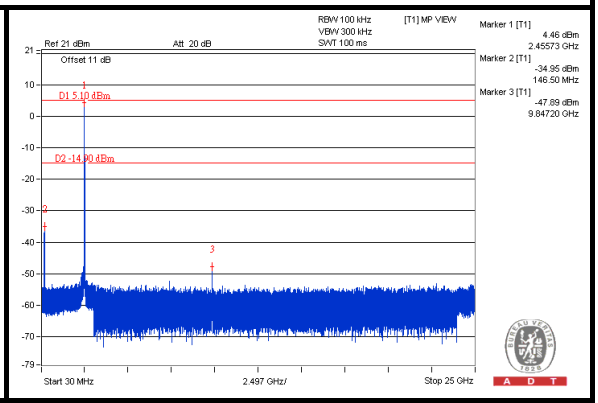
CH 6



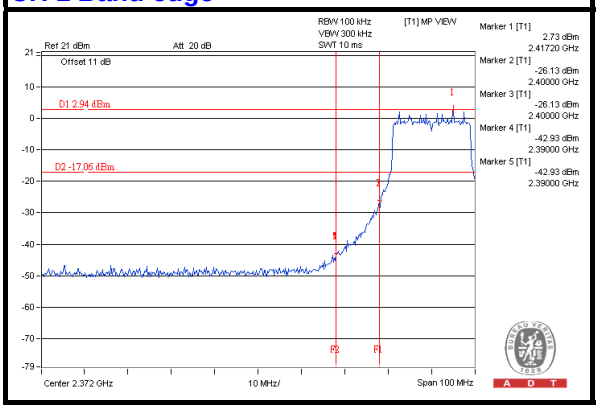


CH 11

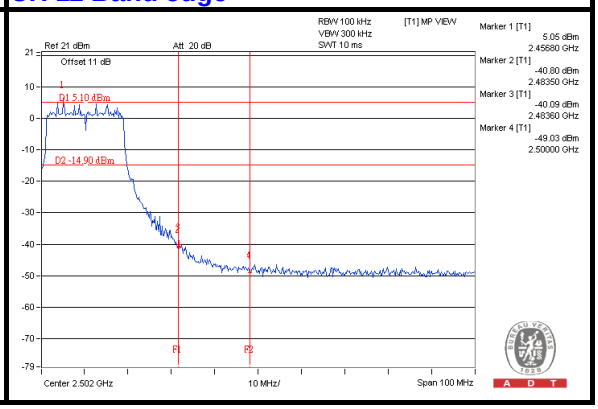




CH 1 Band edge



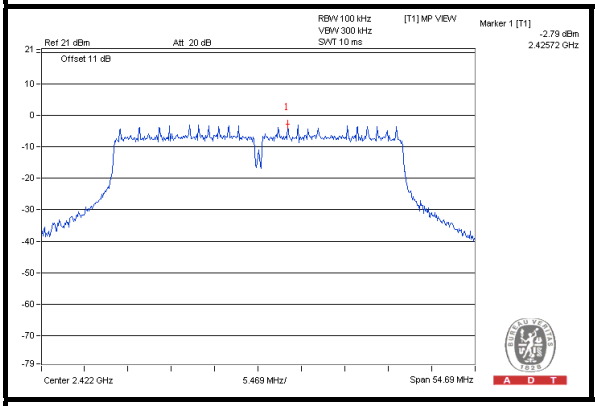
CH 11 Band edge

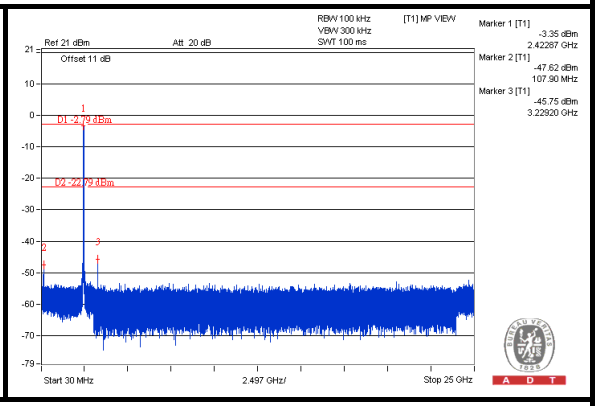


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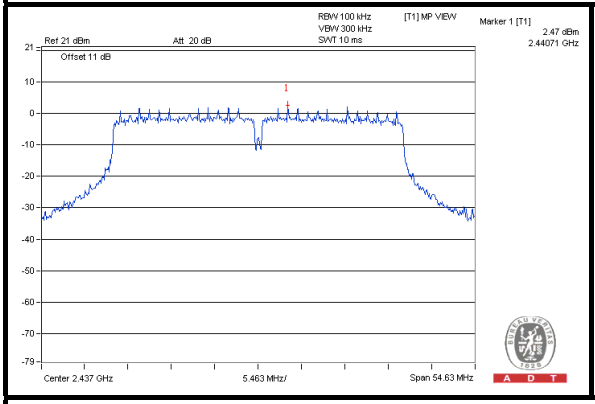
CHAIN 0

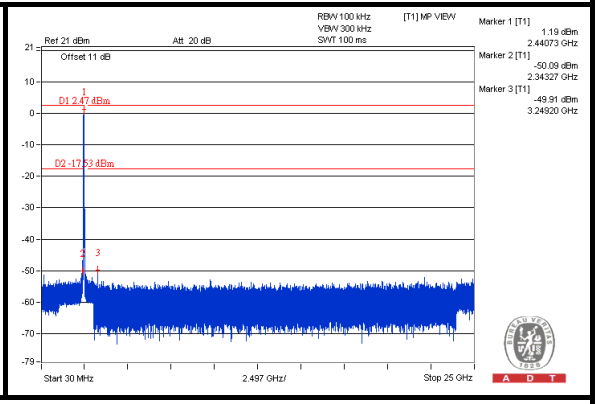
CH 3



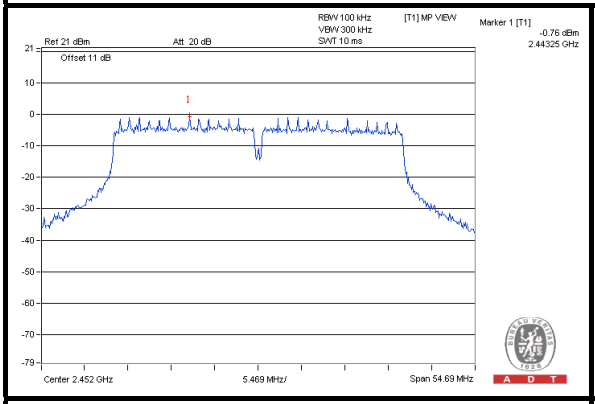


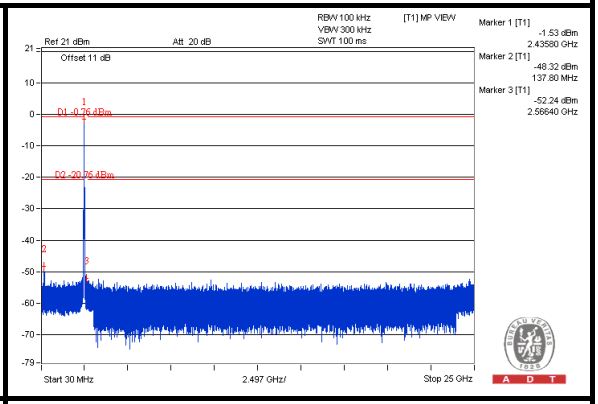
CH 6



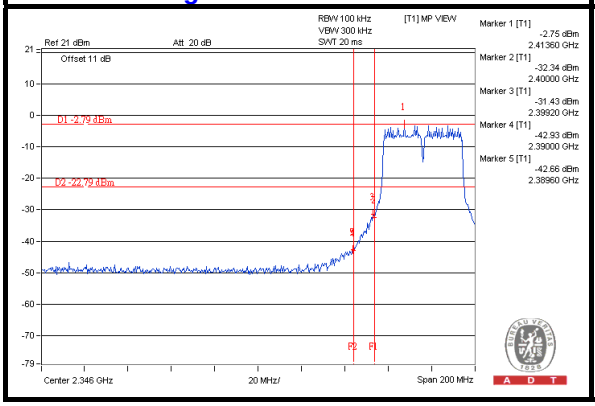


CH 9

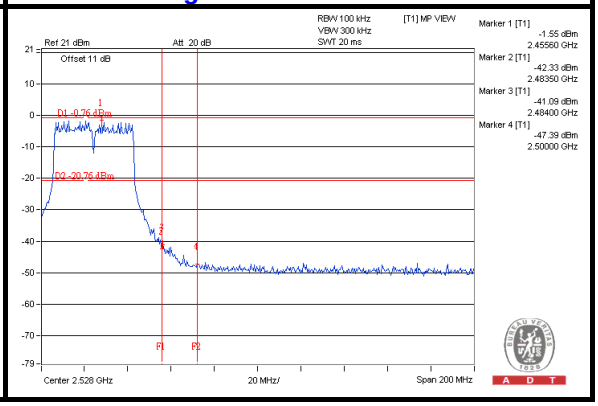




CH 3 Band edge

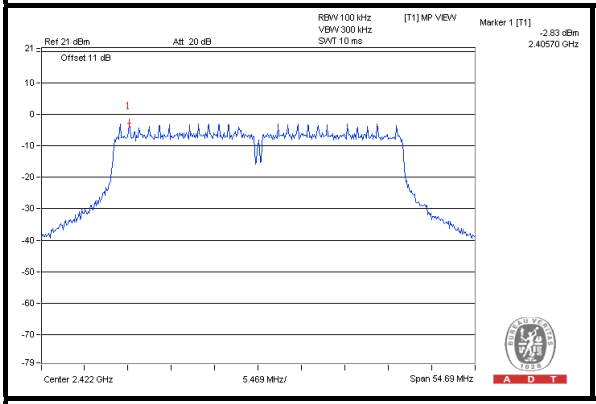


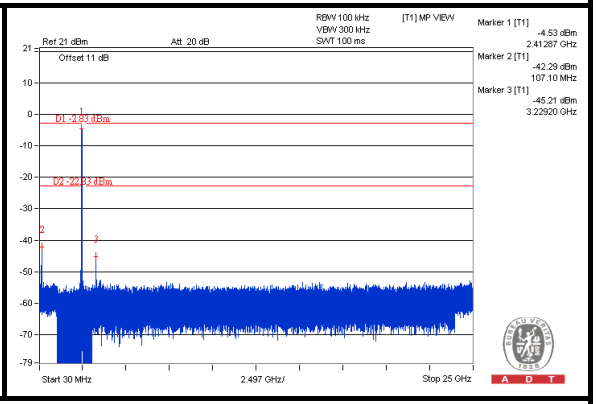
CH 9 Band edge



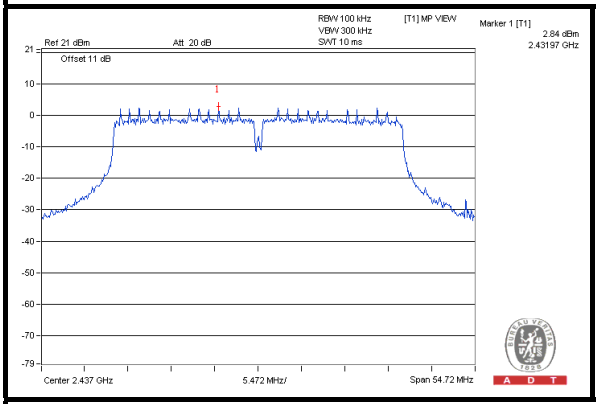
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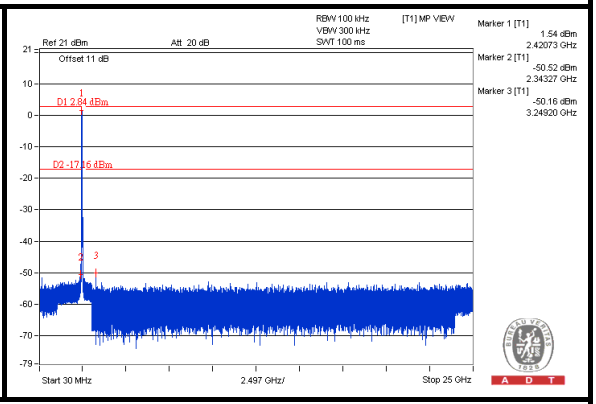
CH 3



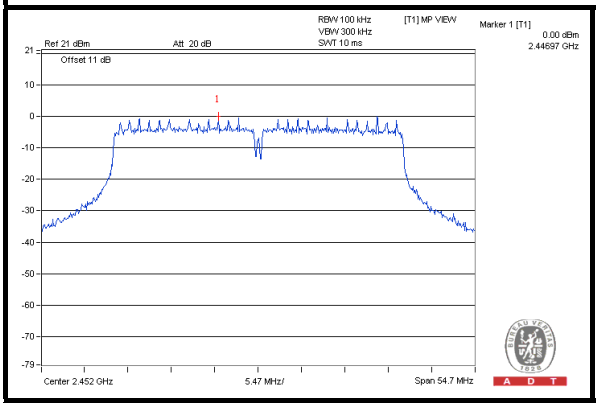


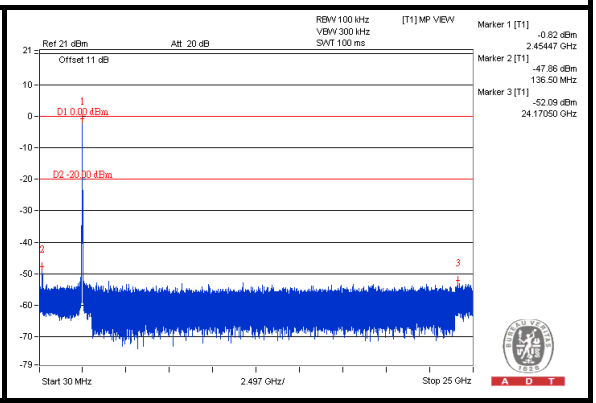
CH 6



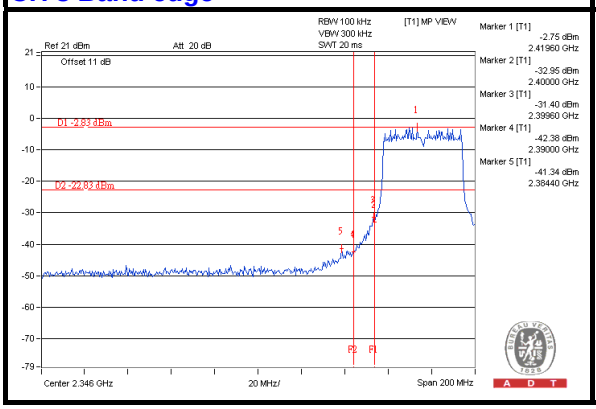


CH 9

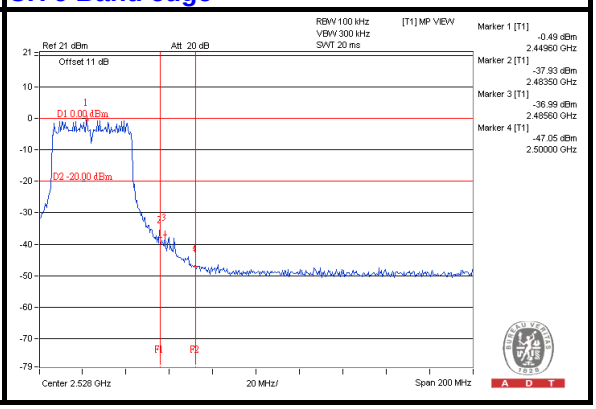




CH 3 Band edge



CH 9 Band edge

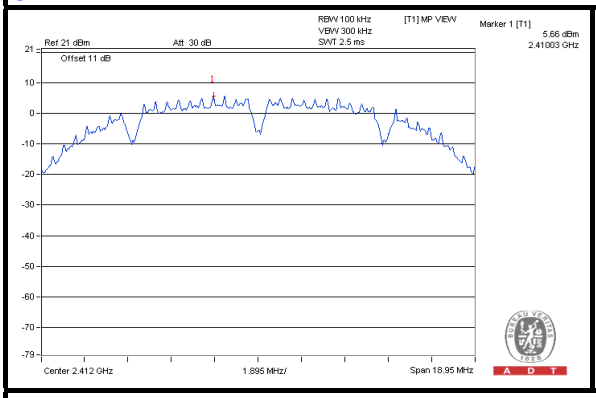


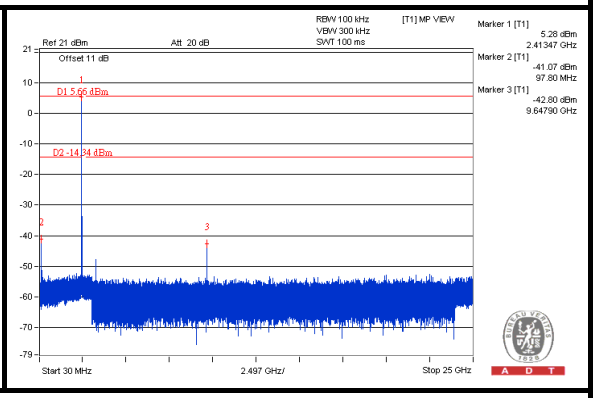
TEST MODE C 1

802.11b

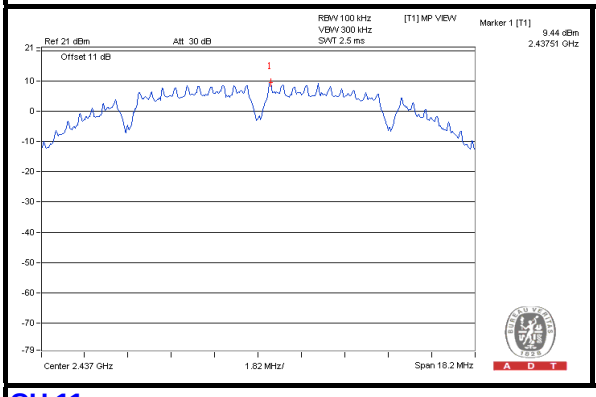
CHAIN 0

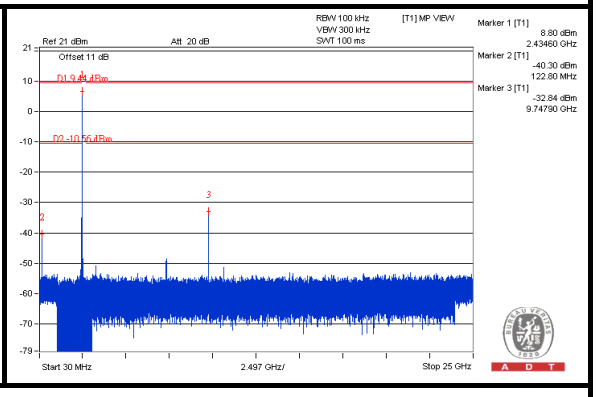
CH 1



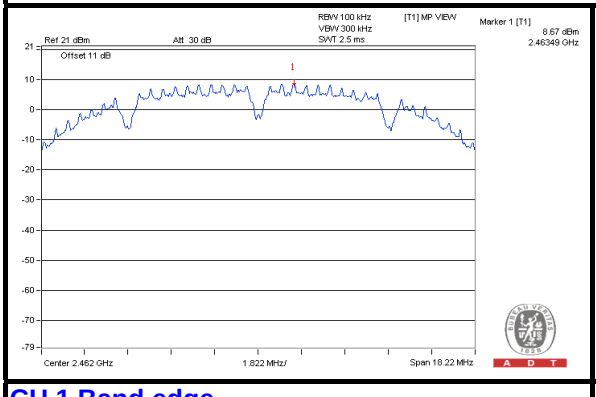


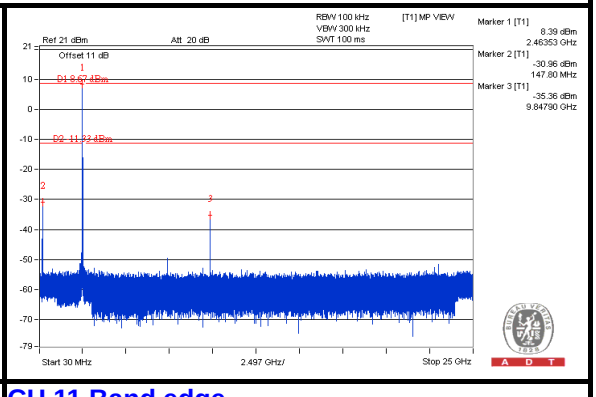
CH 6



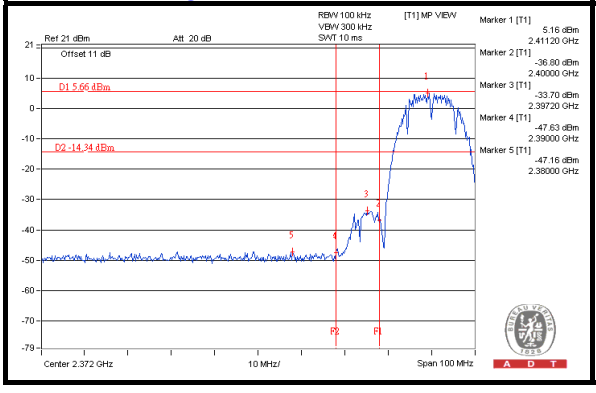


CH 11

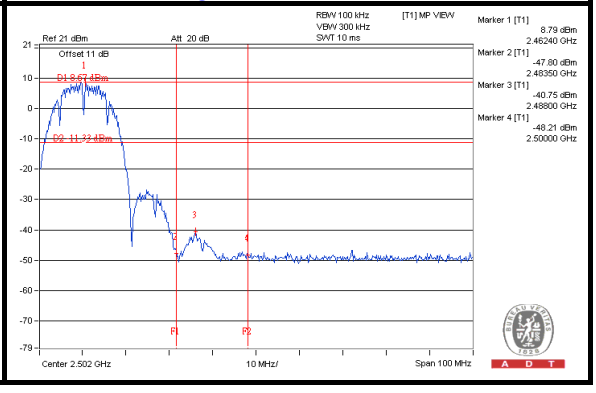




CH 1 Band edge

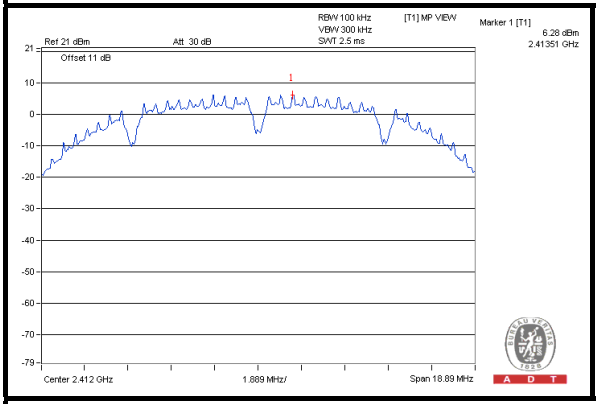


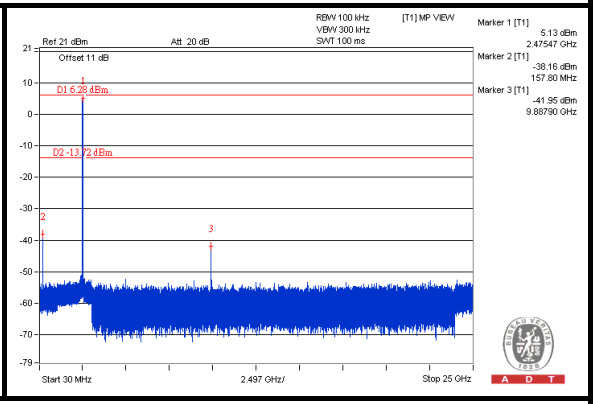
CH 11 Band edge



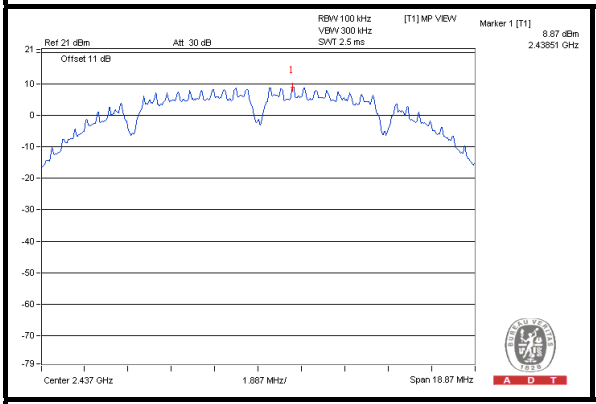
CHAIN 1

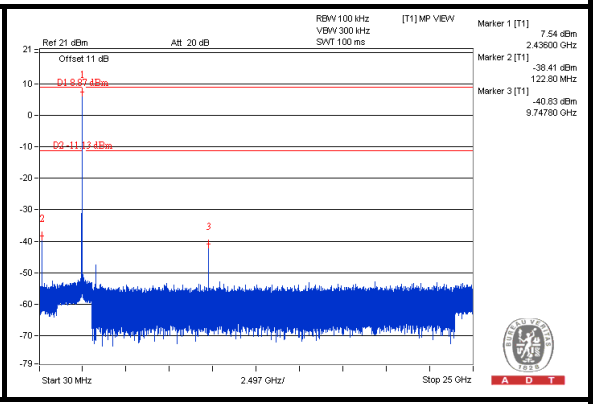
CH 1



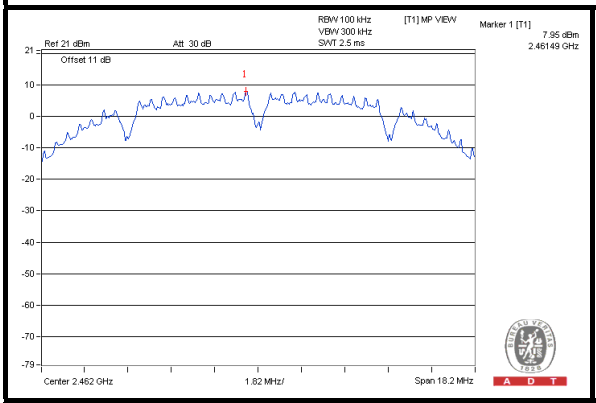


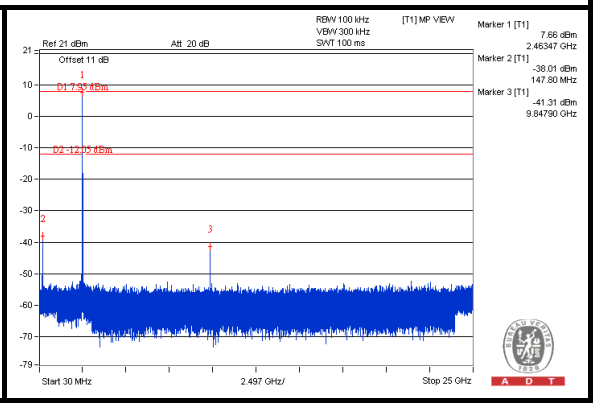
CH 6



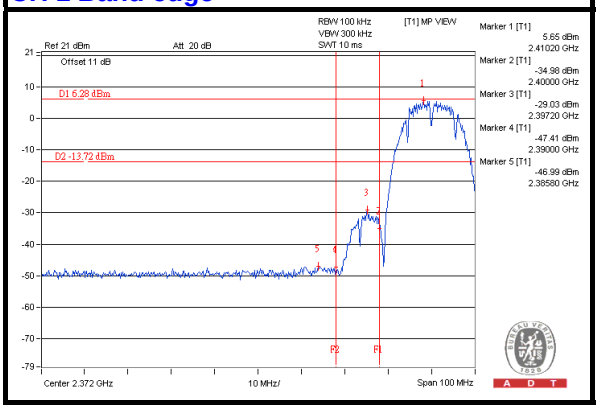


CH 11

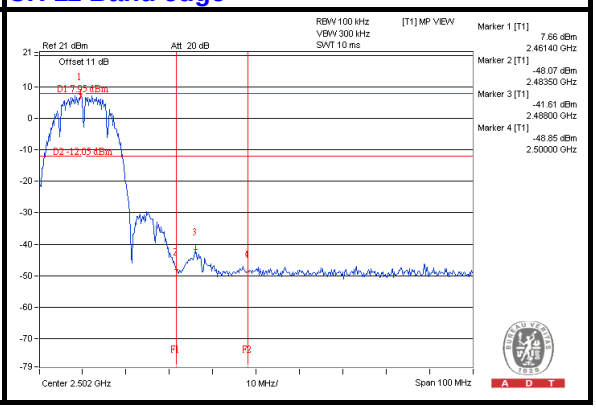




CH 1 Band edge



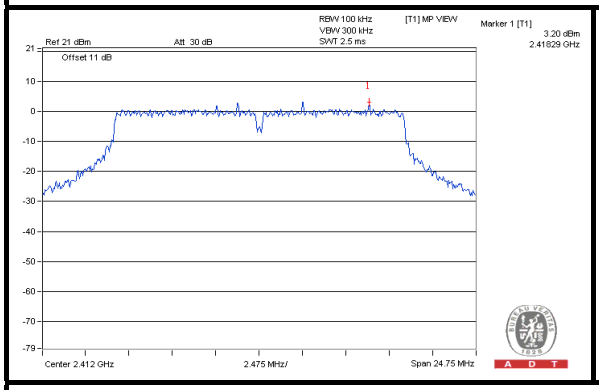
CH 11 Band edge

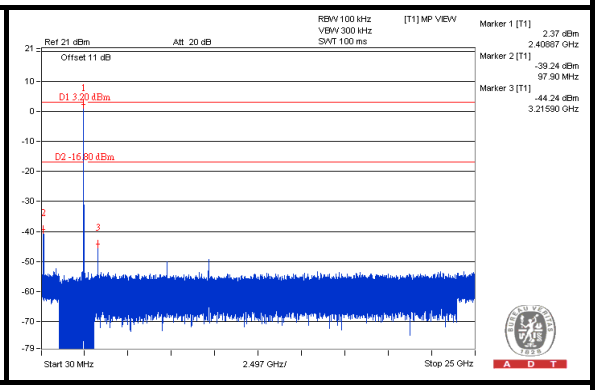


802.11g

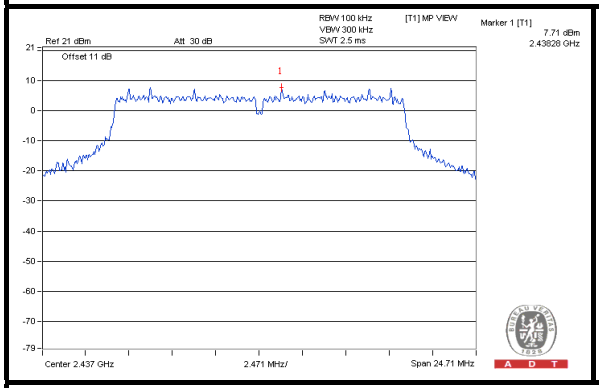
CHAIN 0

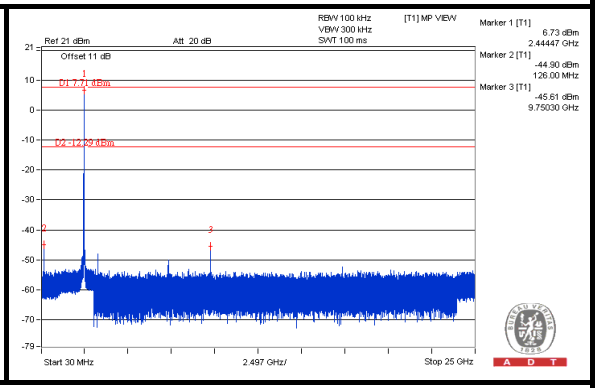
CH 1



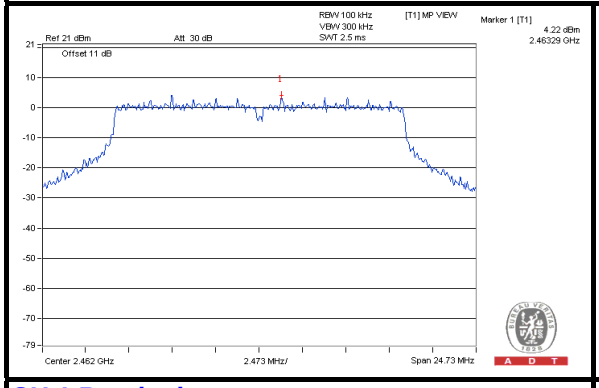


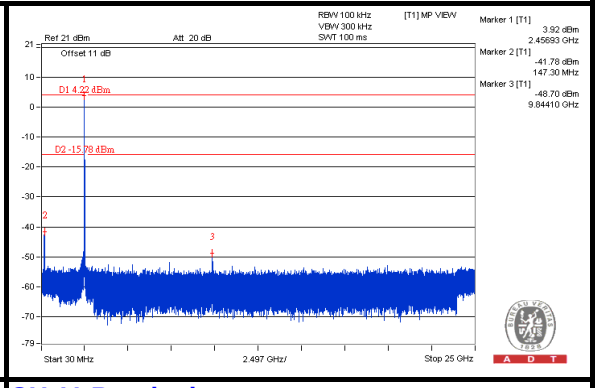
CH 6



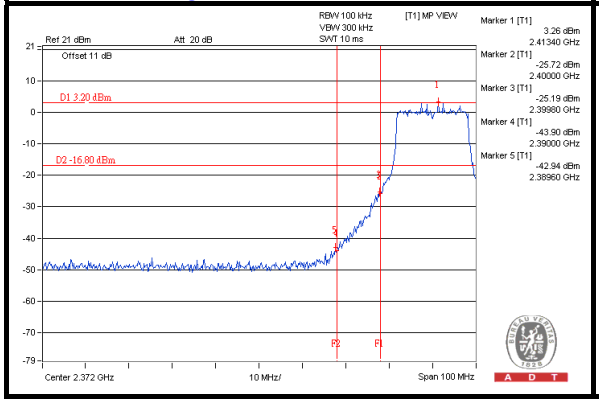


CH 11

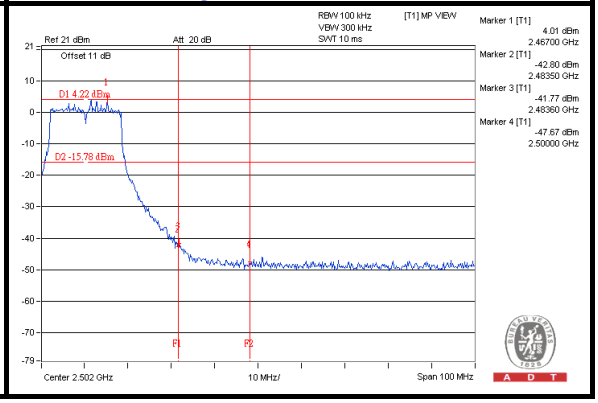




CH 1 Band edge

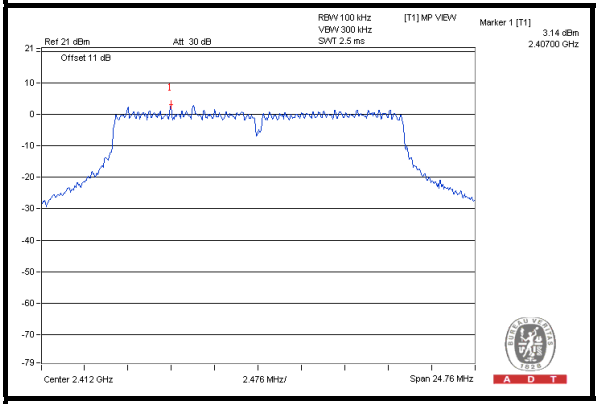


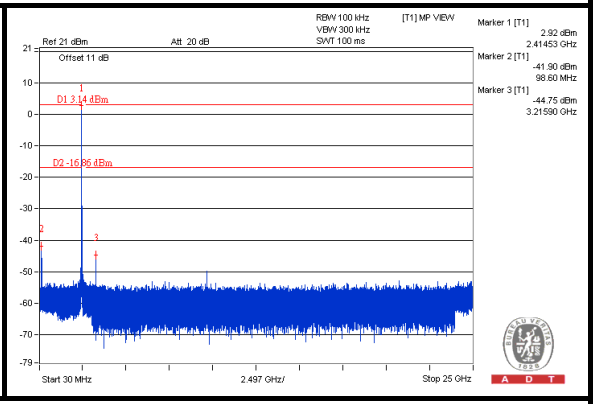
CH 11 Band edge



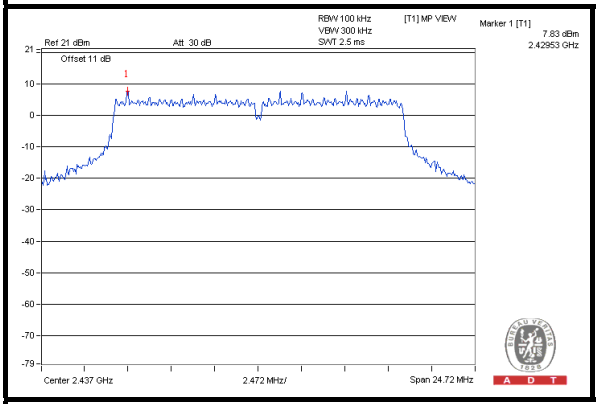
CHAIN 1

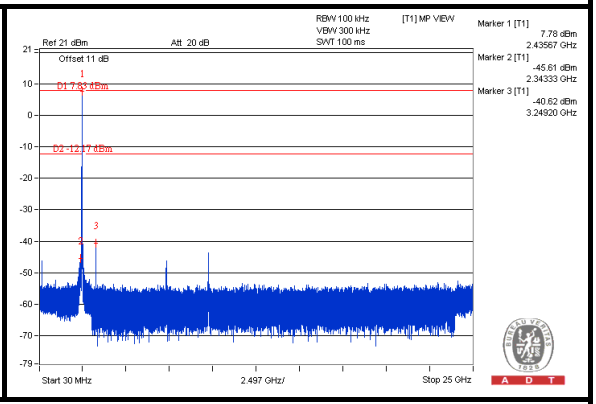
CH 1



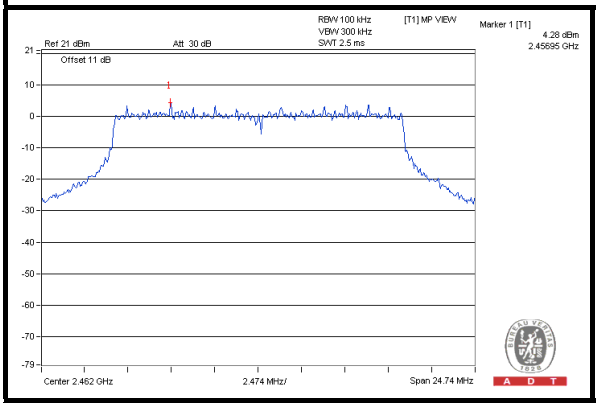


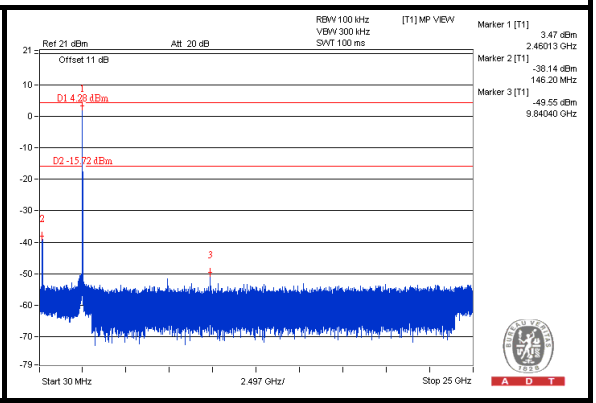
CH 6



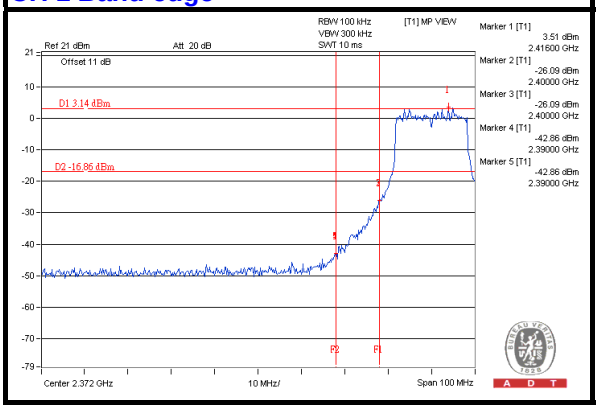


CH 11

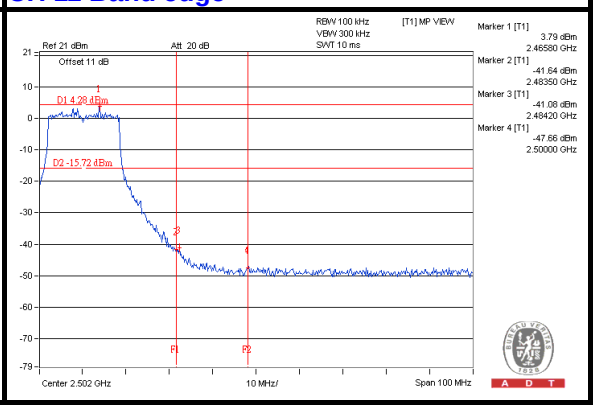




CH 1 Band edge



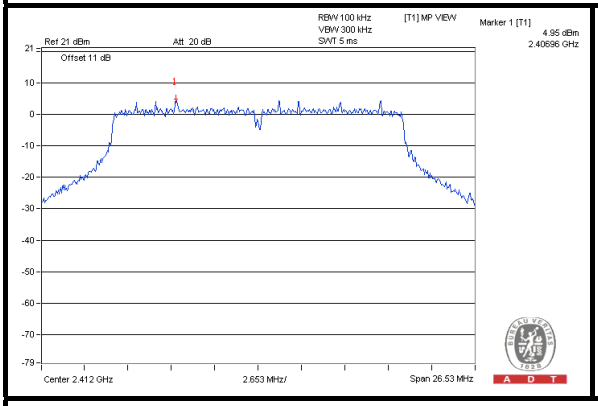
CH 11 Band edge

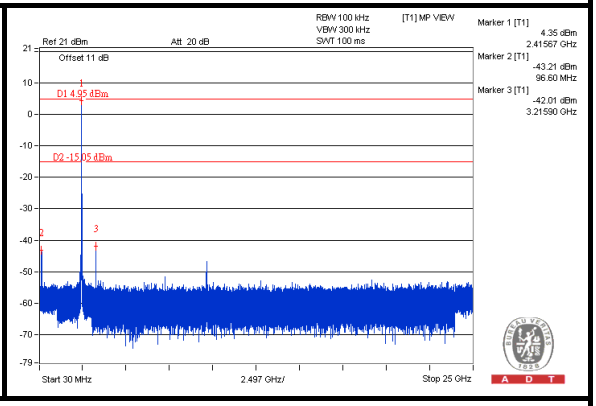


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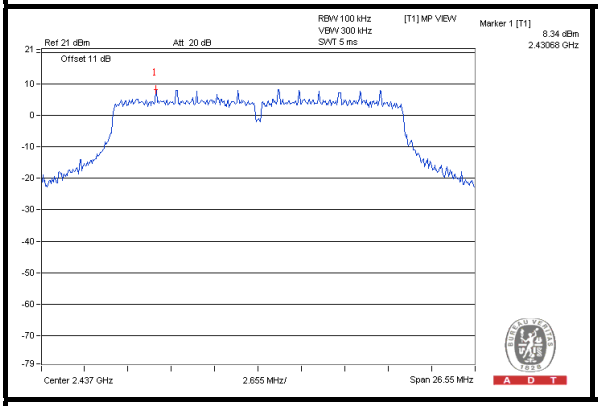
CHAIN 0

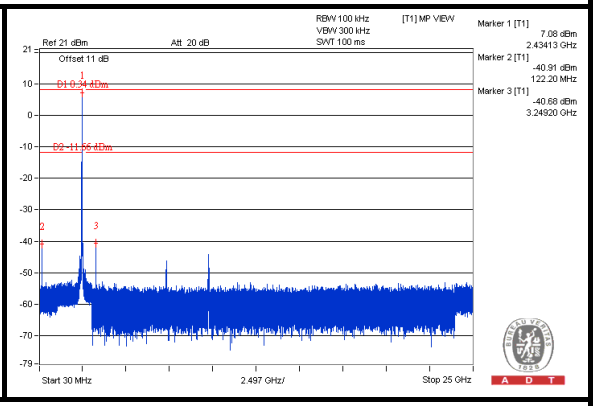
CH 1



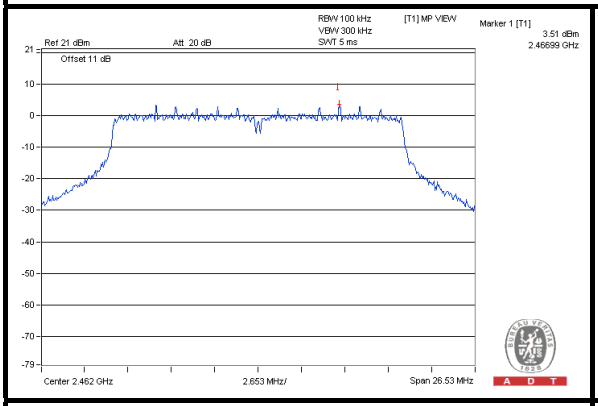


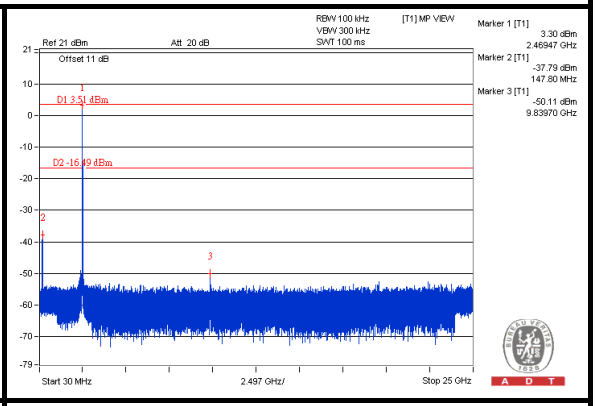
CH 6



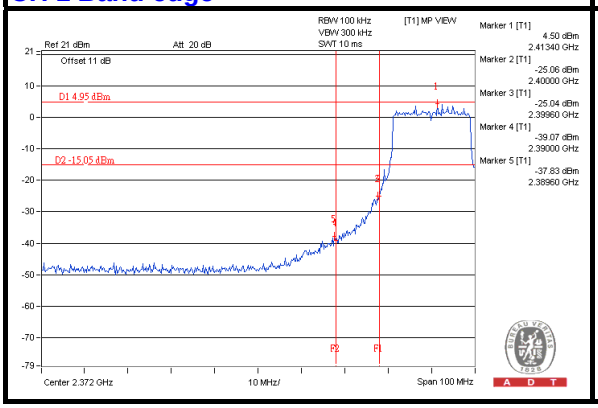


CH 11

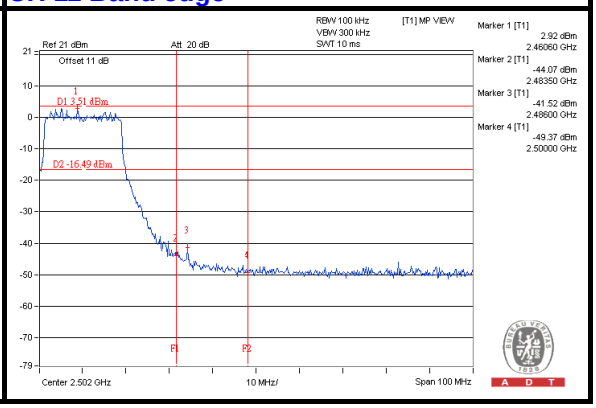




CH 1 Band edge

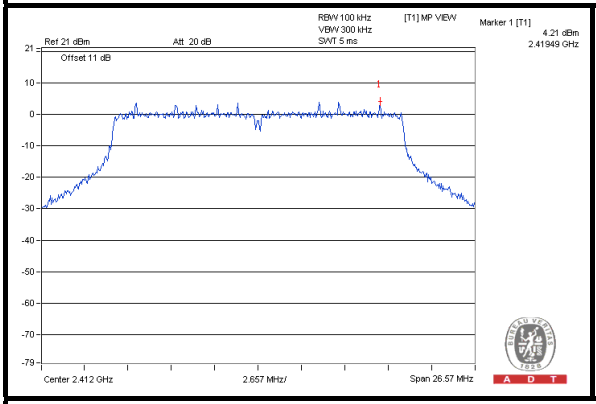


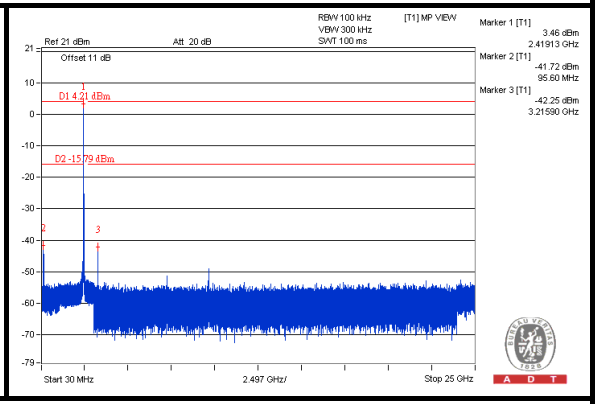
CH 11 Band edge



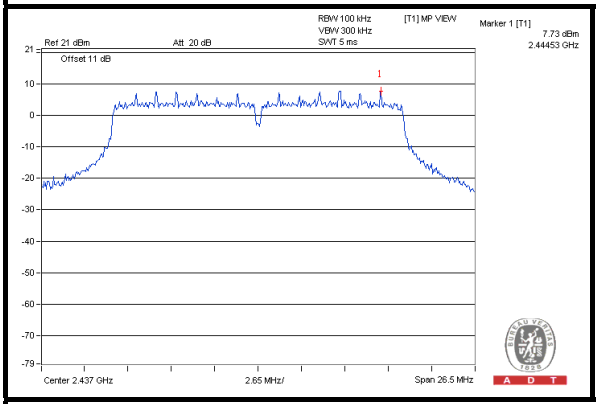
CHAIN 1

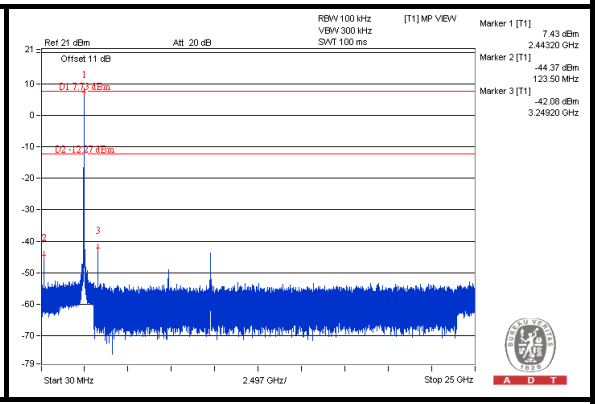
CH 1



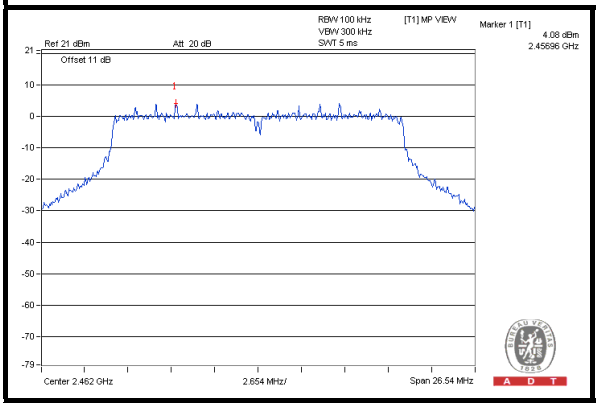


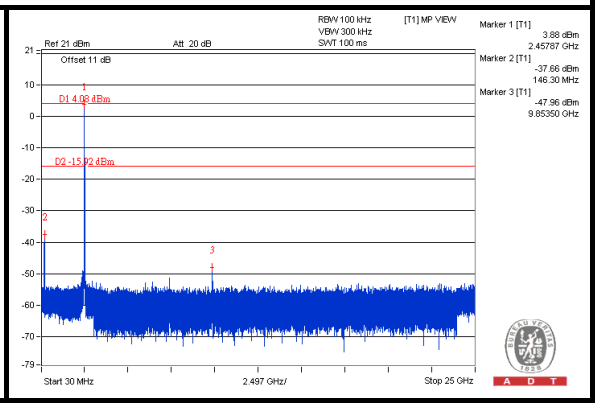
CH 6



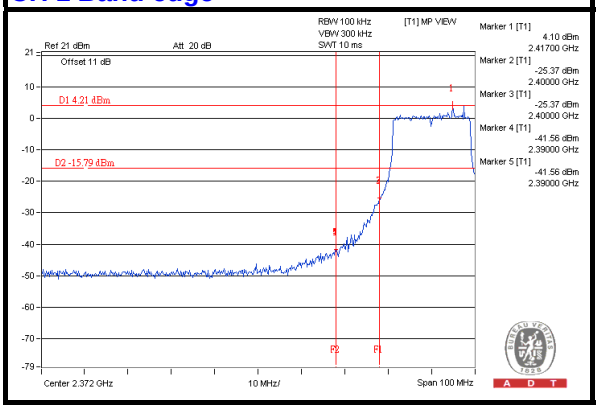


CH 11

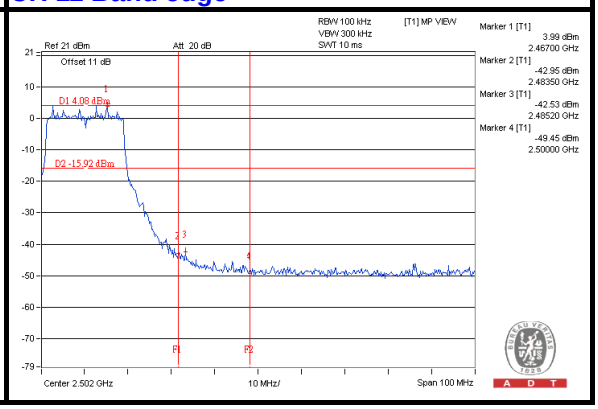




CH 1 Band edge



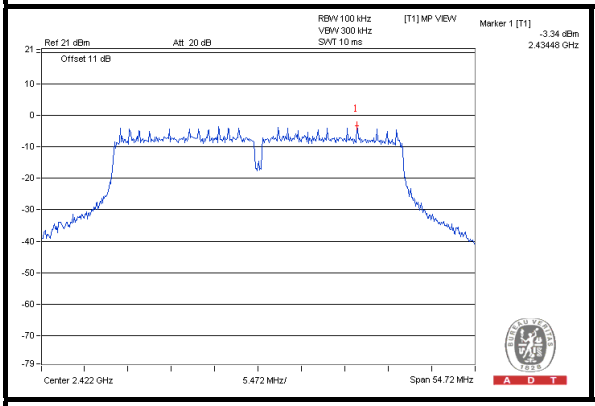
CH 11 Band edge

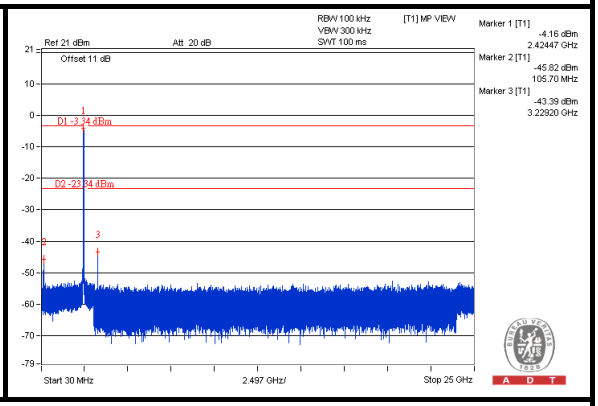


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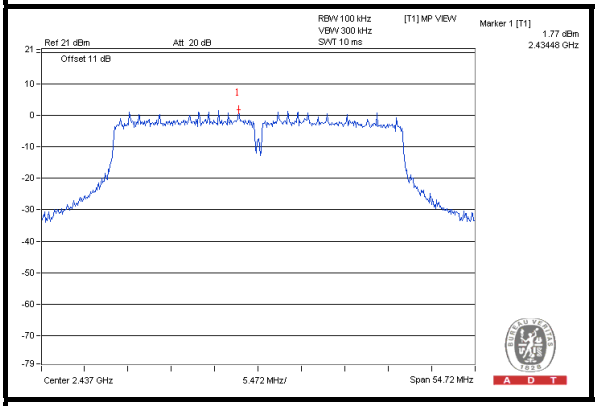
CHAIN 0

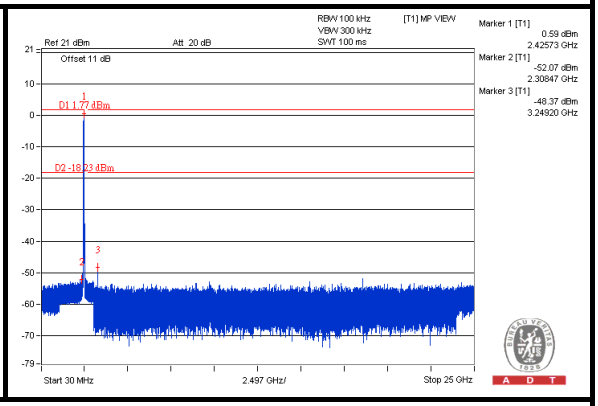
CH 3



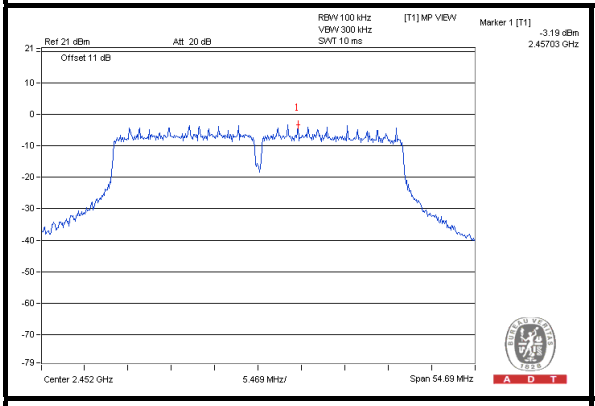


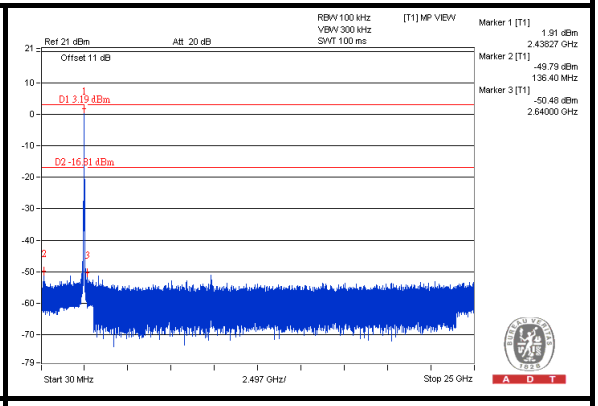
CH 6



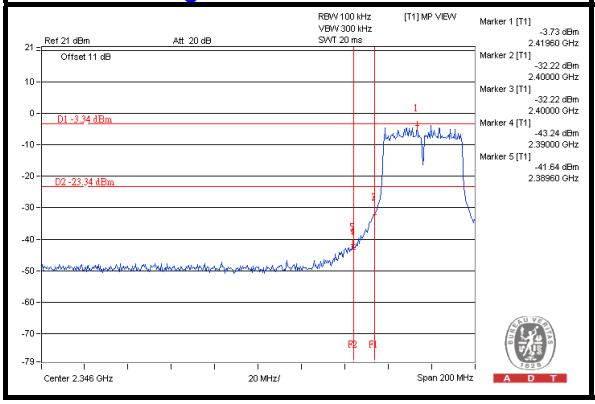


CH 9

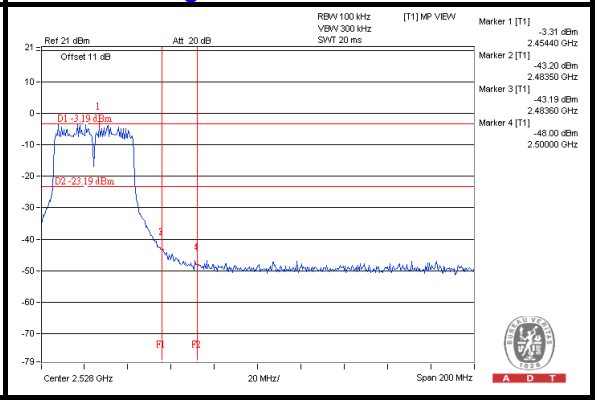




CH 3 Band edge

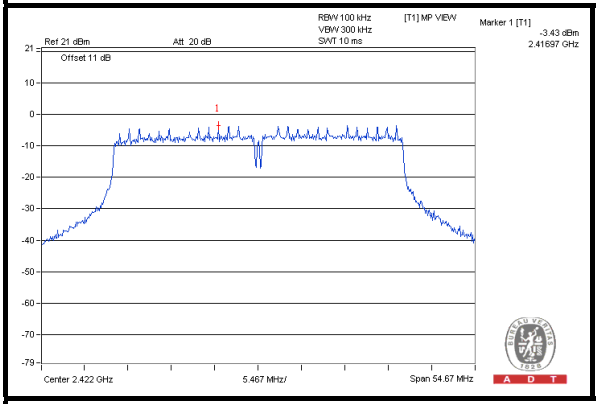


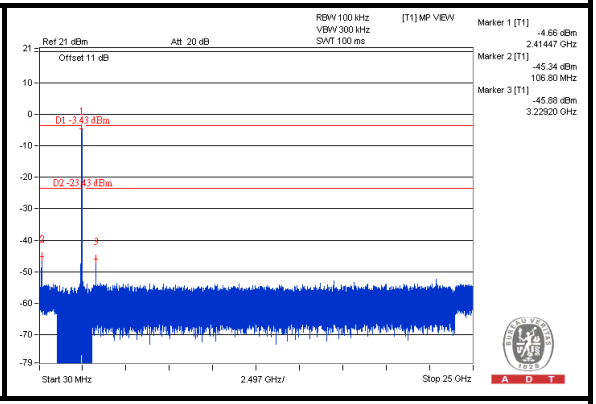
CH 9 Band edge



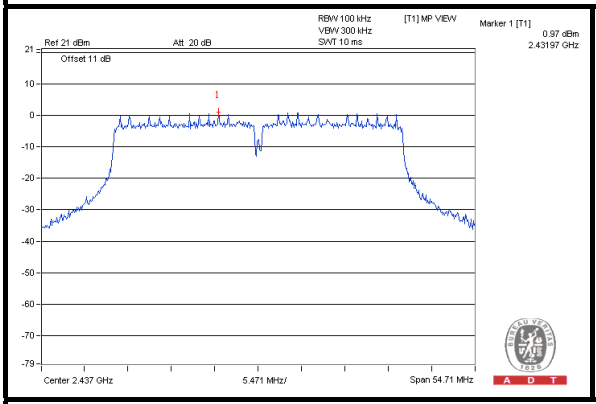
CHAIN 1

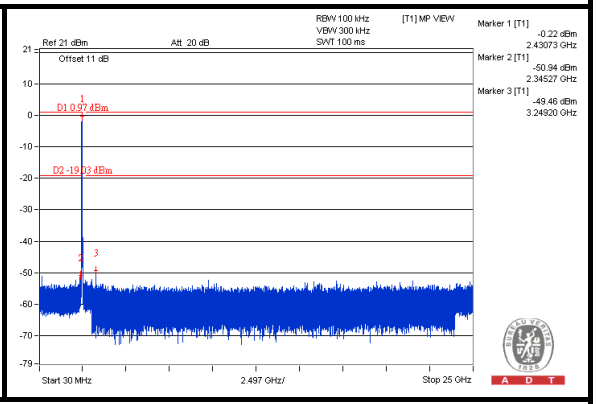
CH 3



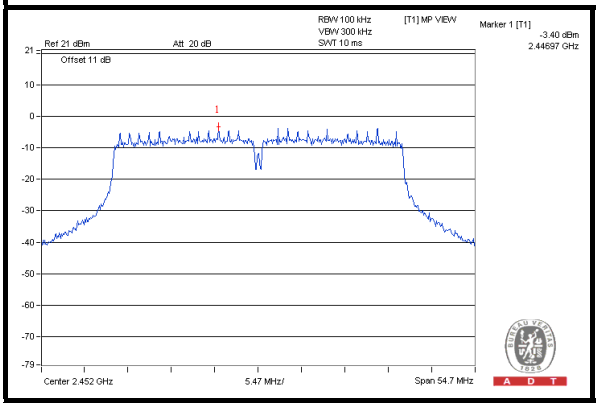


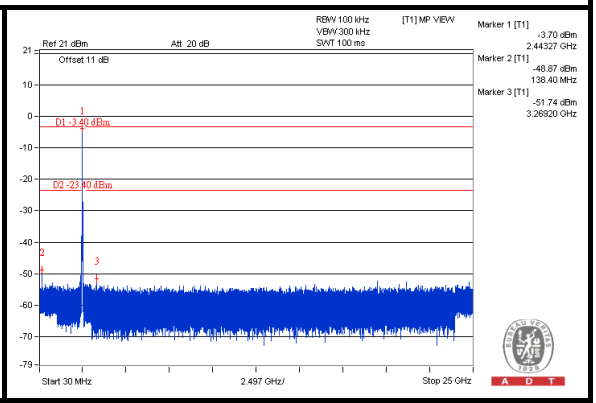
CH 6



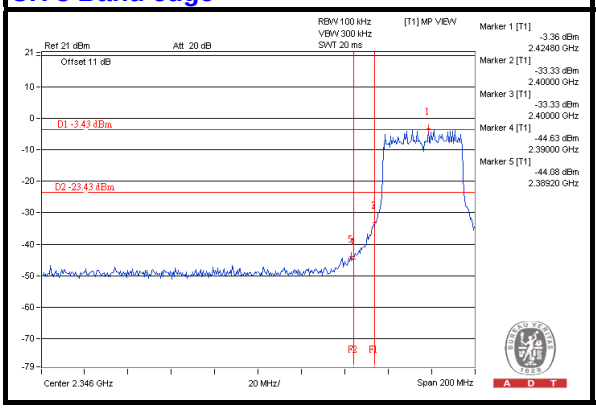


CH 9

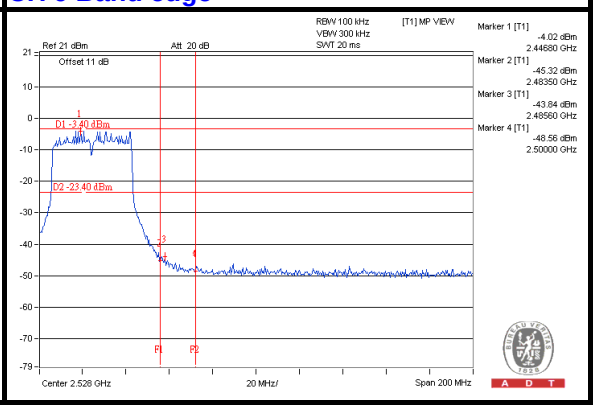




CH 3 Band edge



CH 9 Band edge

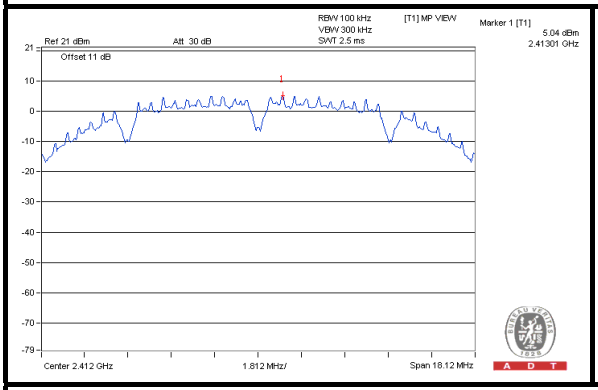


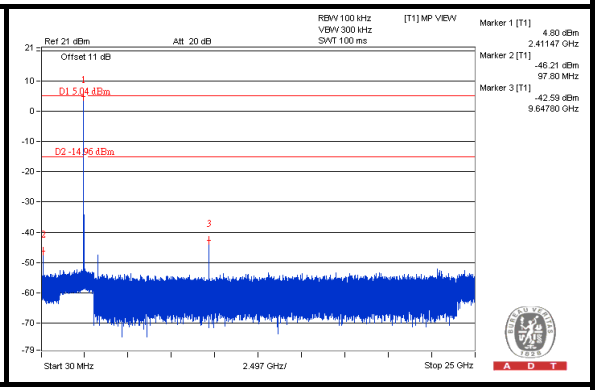
TEST MODE C 2

802.11b

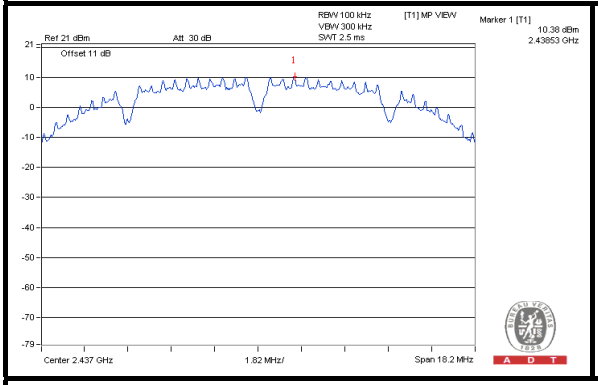
CHAIN 0

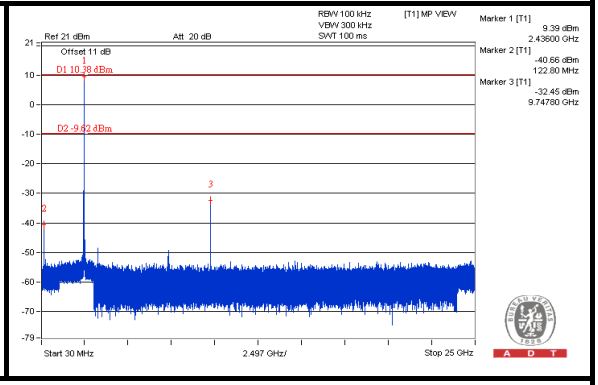
CH 1



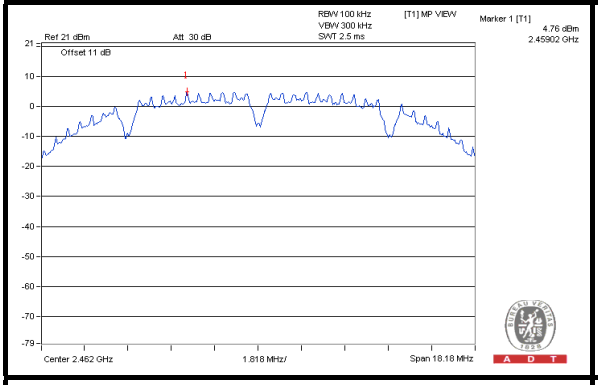


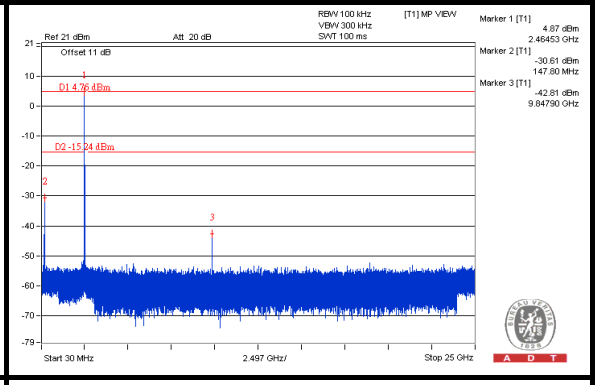
CH 6



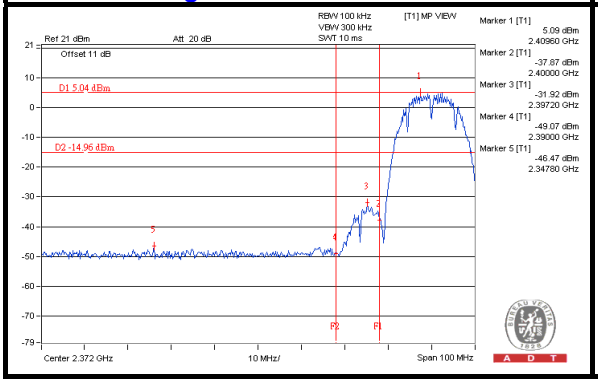


CH 11

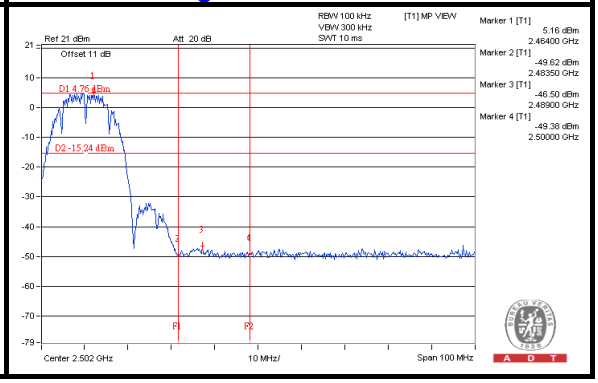




CH 1 Band edge

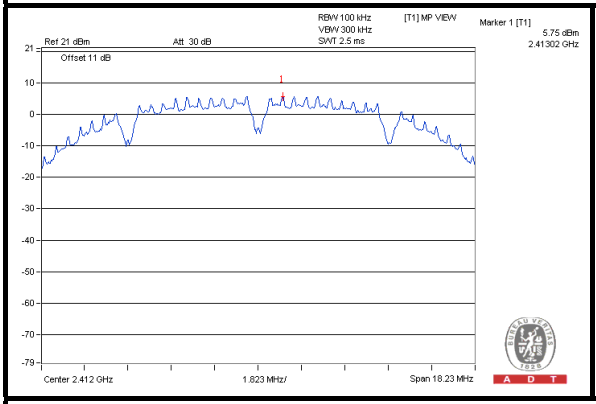


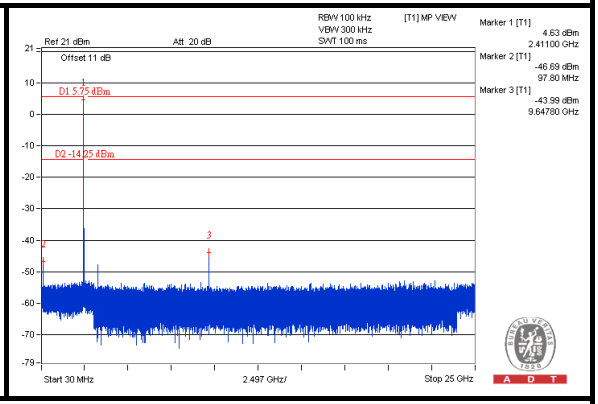
CH 11 Band edge



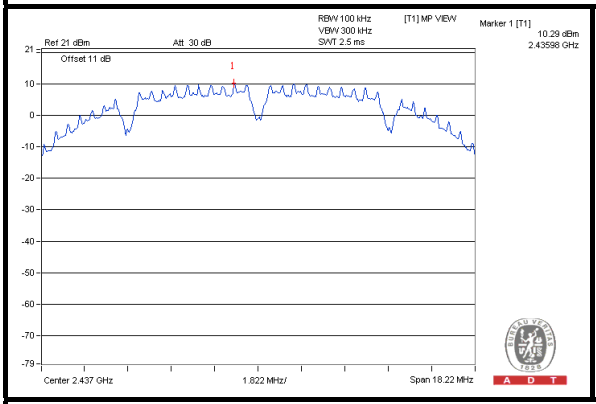
CHAIN 1

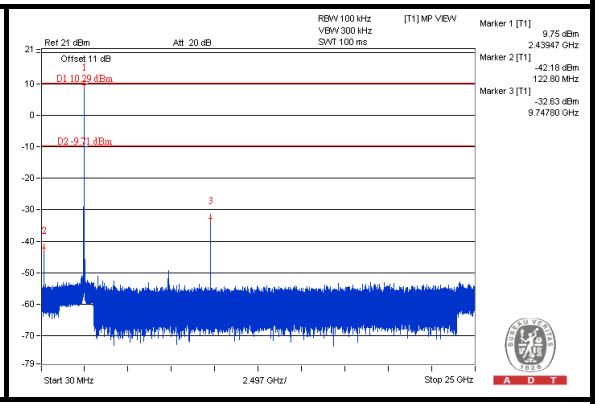
CH 1



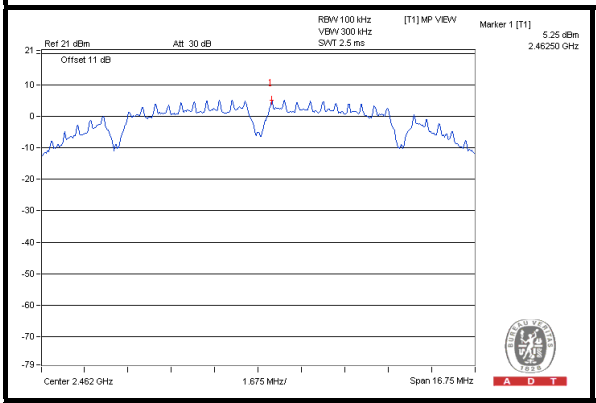


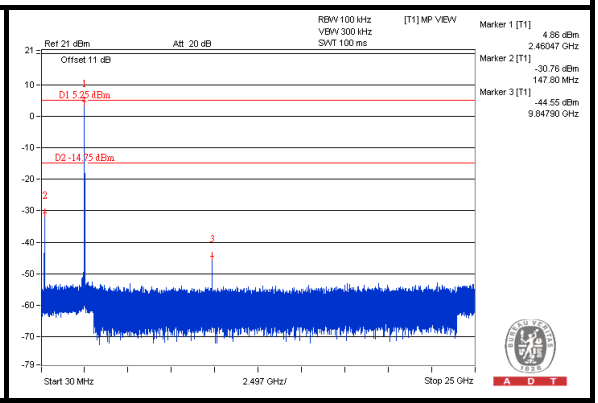
CH 6



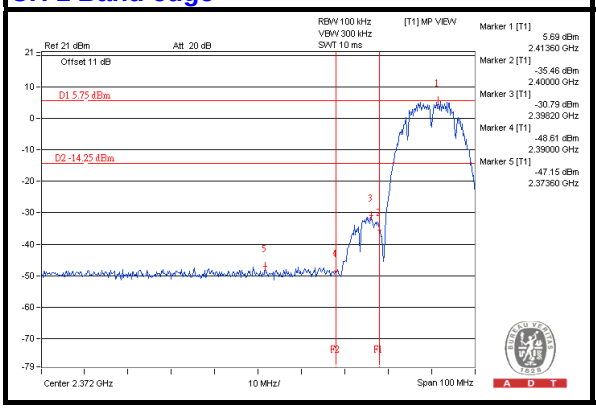


CH 11

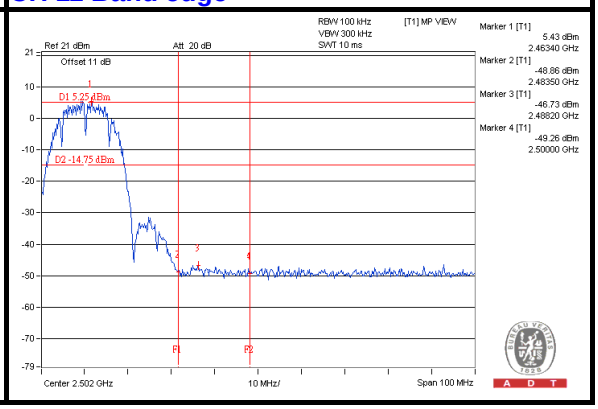




CH 1 Band edge



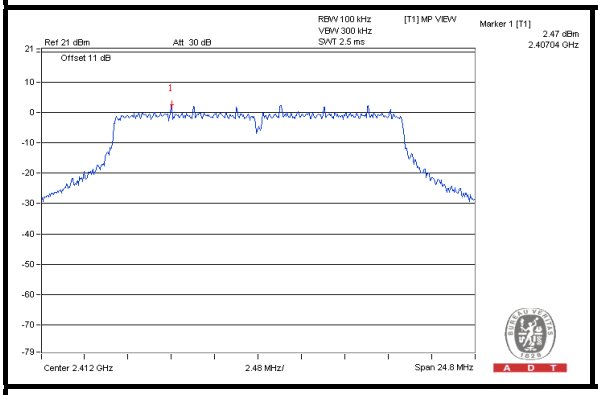
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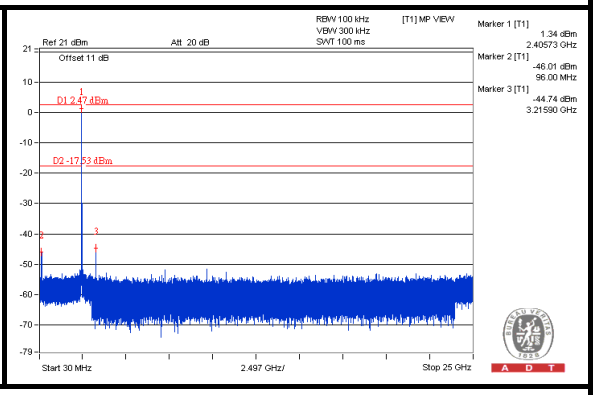


802.11g

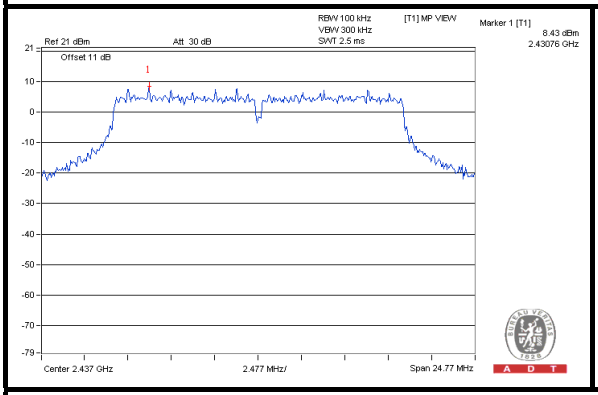
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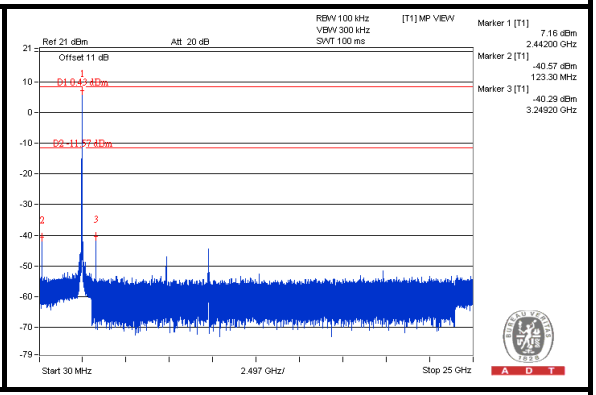
CH 1



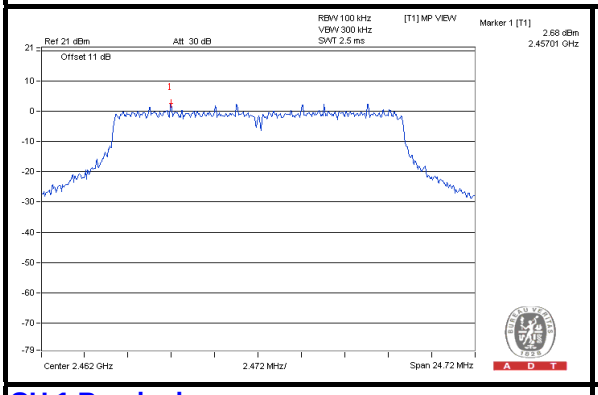


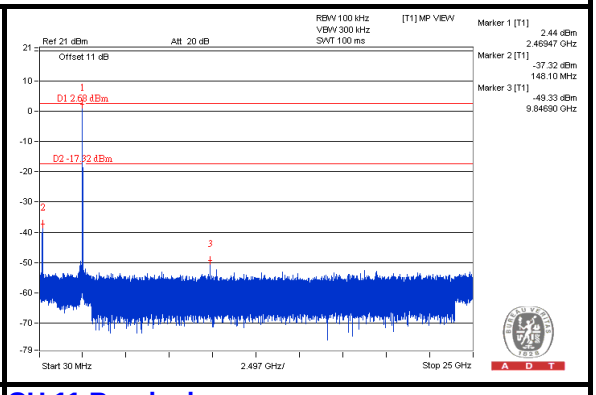
CH 6



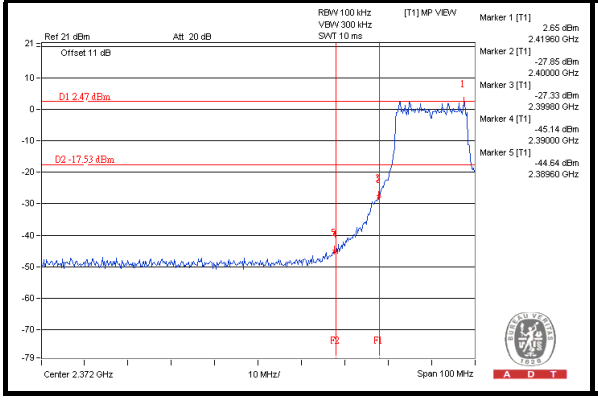


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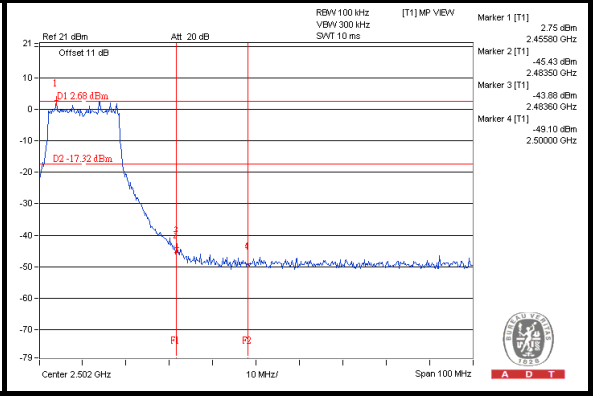




CH 1 Band edge

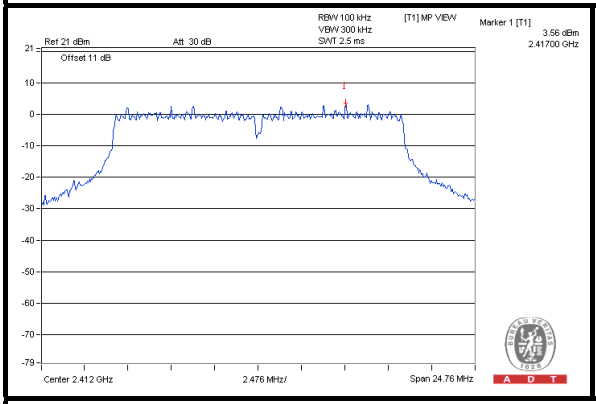


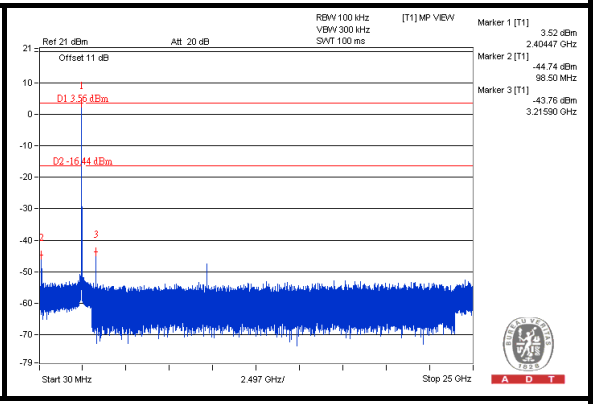
CH 11 Band edge



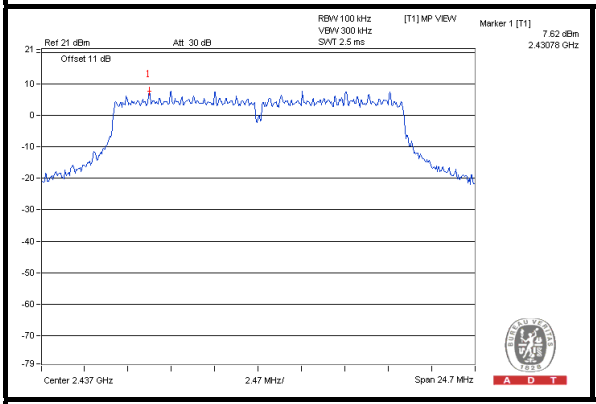
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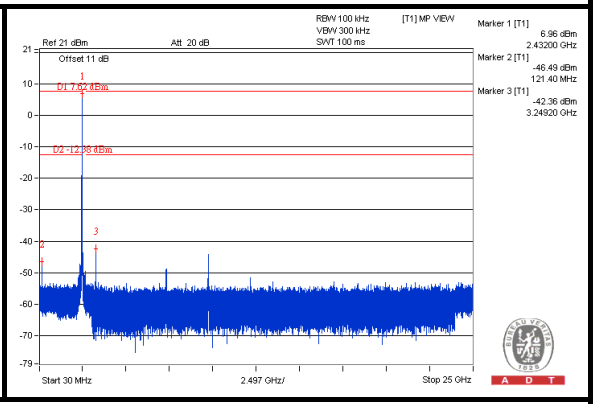
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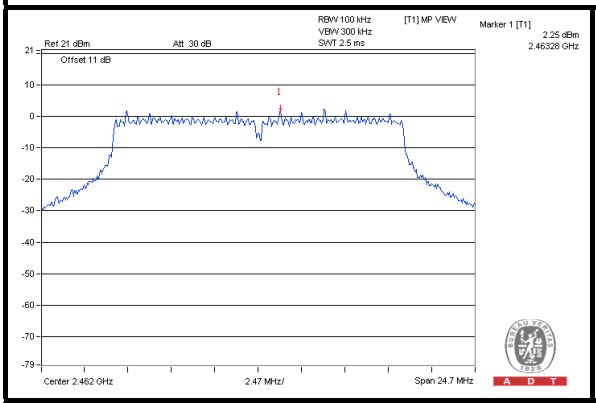


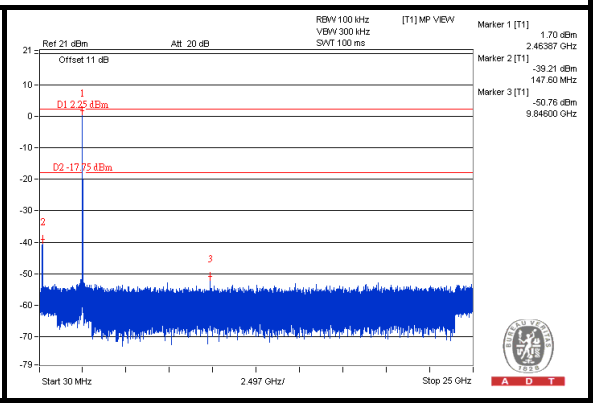
CH 6



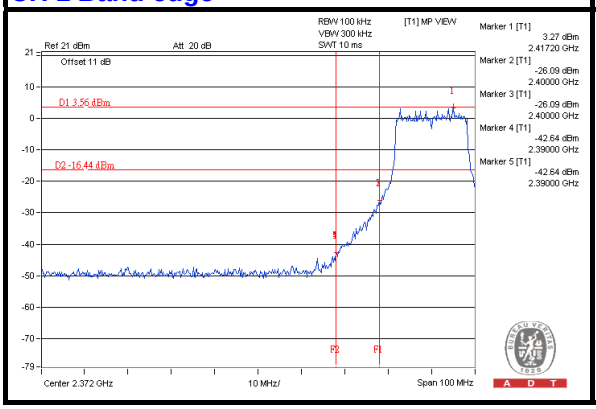


CH 11

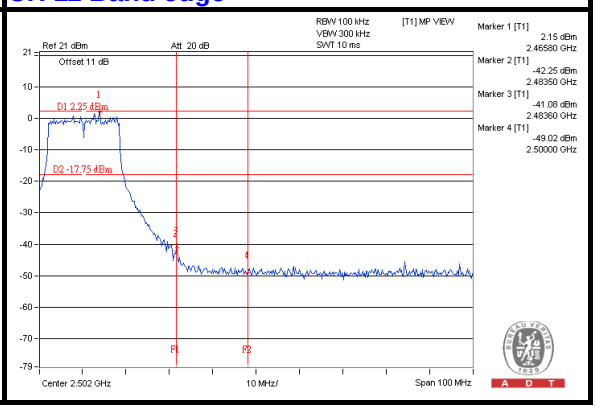




CH 1 Band edge



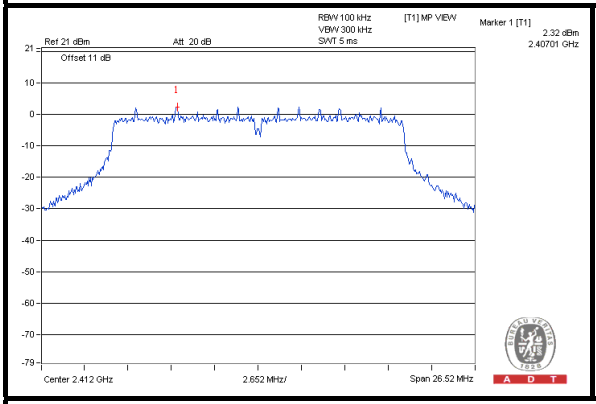
CH 11 Band edge

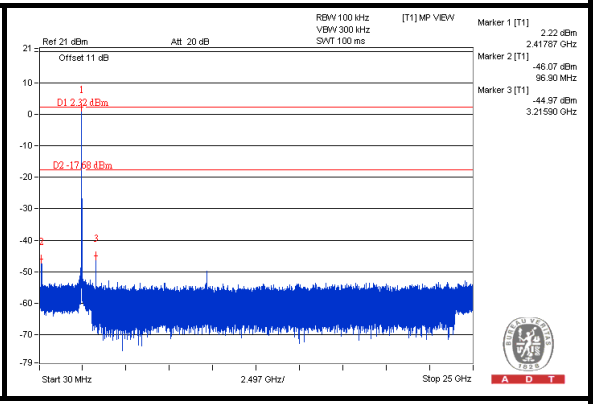


802.11n (20MHz)

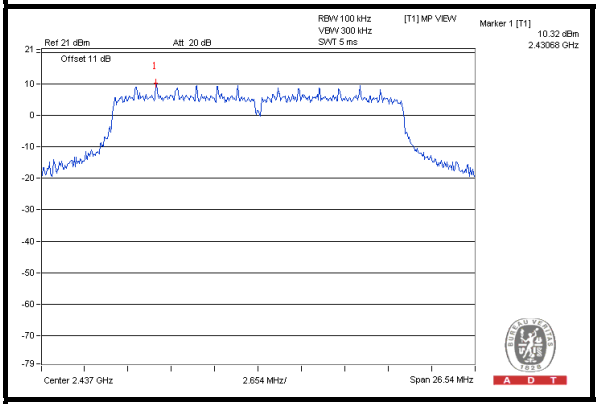
CHAIN 0

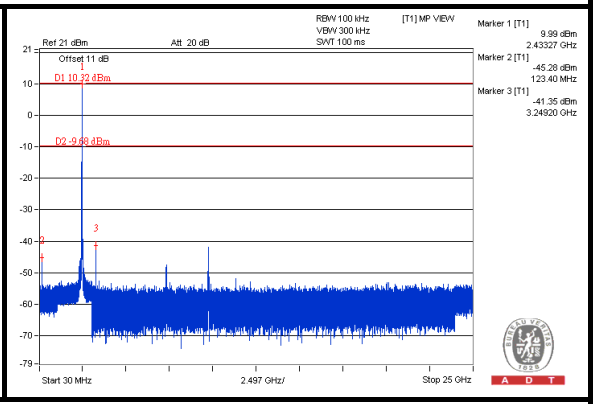
CH 1



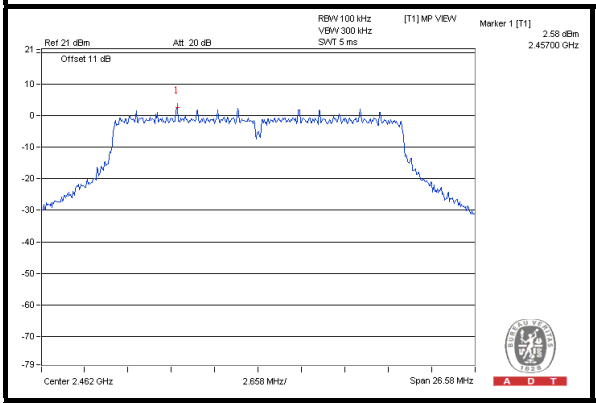


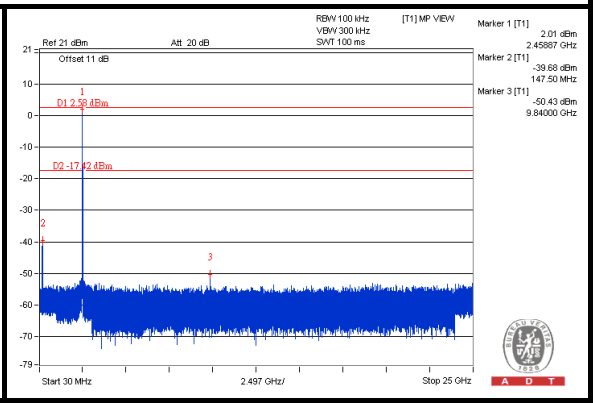
CH 6



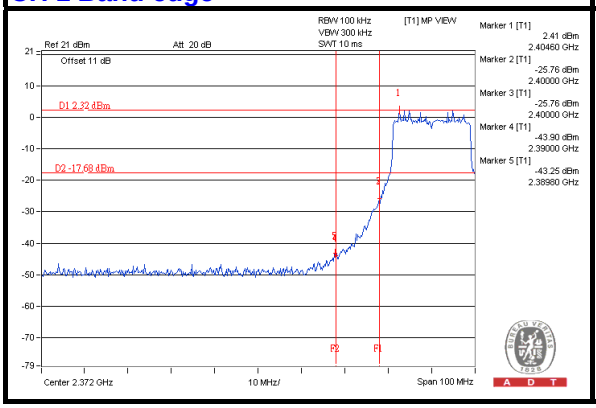


CH 11

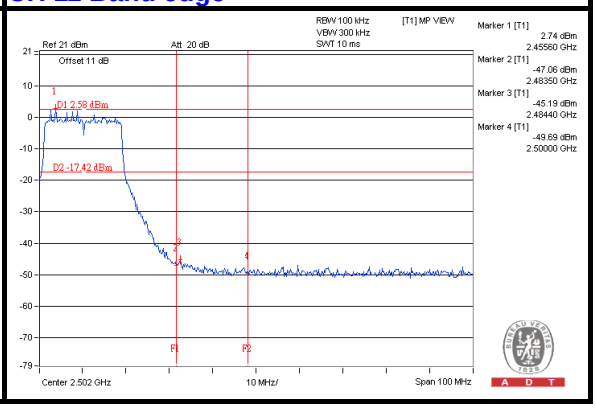




CH 1 Band edge

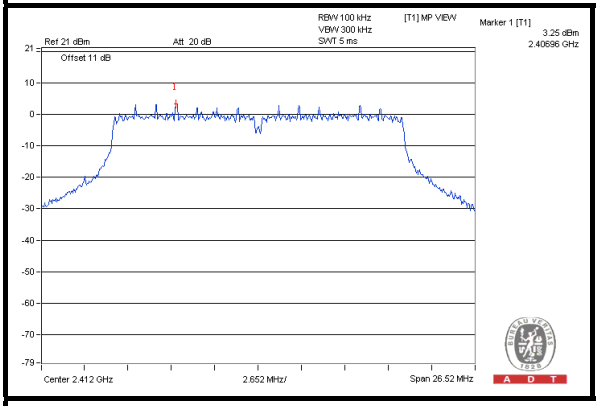


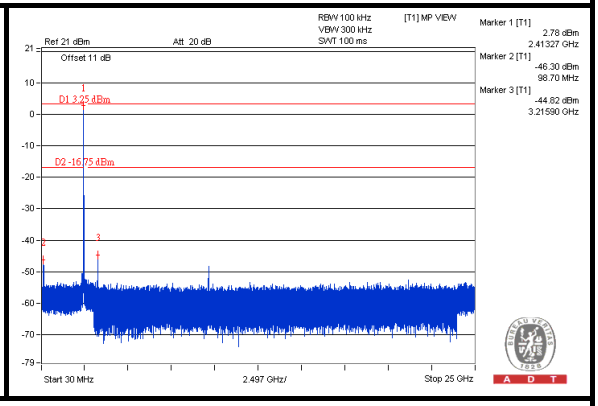
CH 11 Band edge



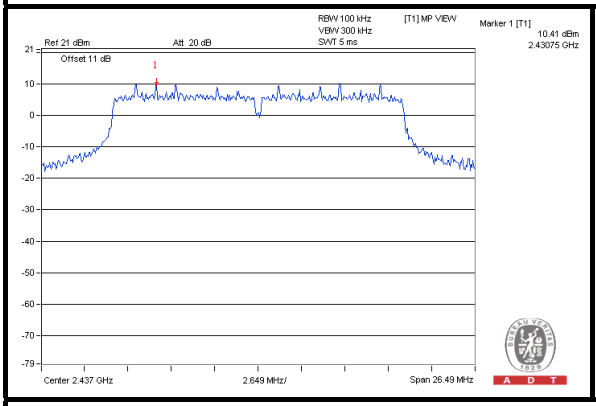
CHAIN 1

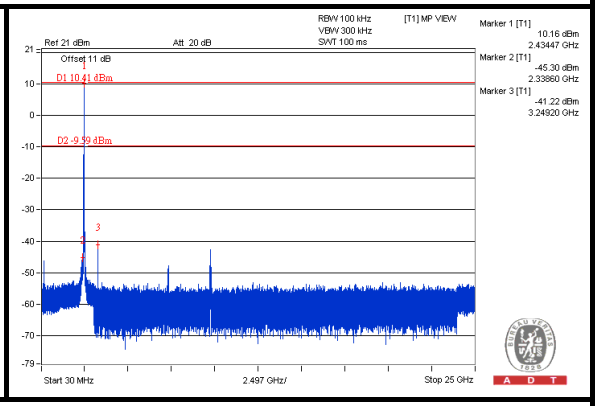
CH 1



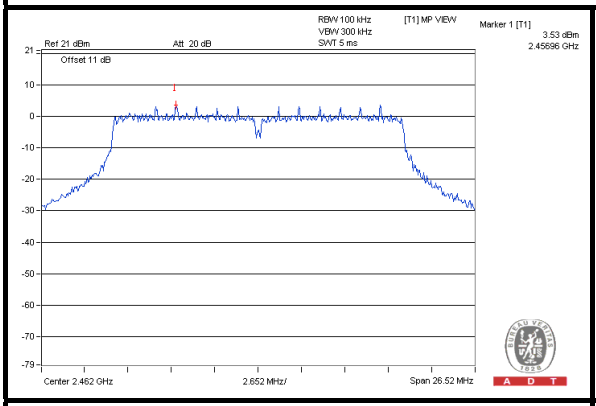


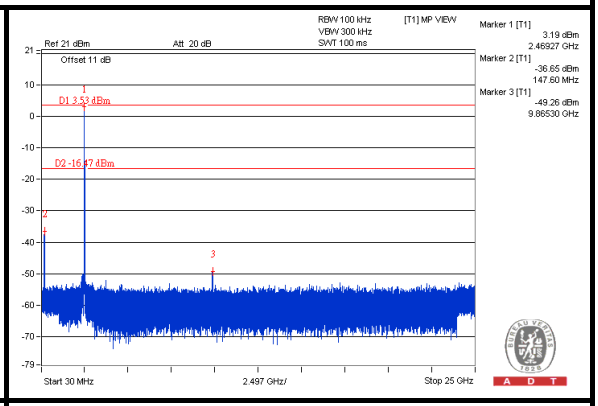
CH 6



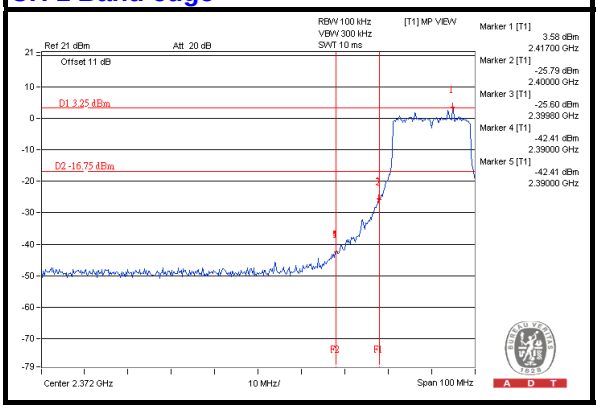


CH 11

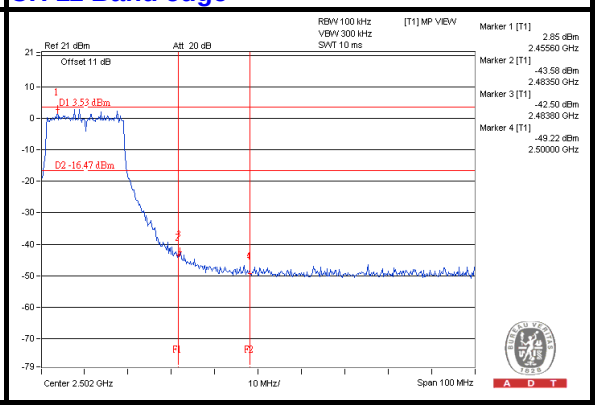




CH 1 Band edge



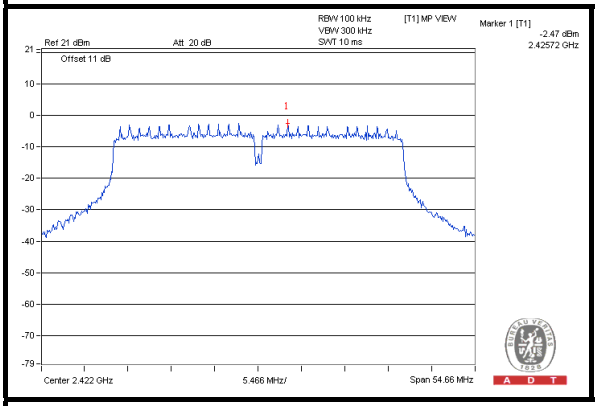
CH 11 Band edge

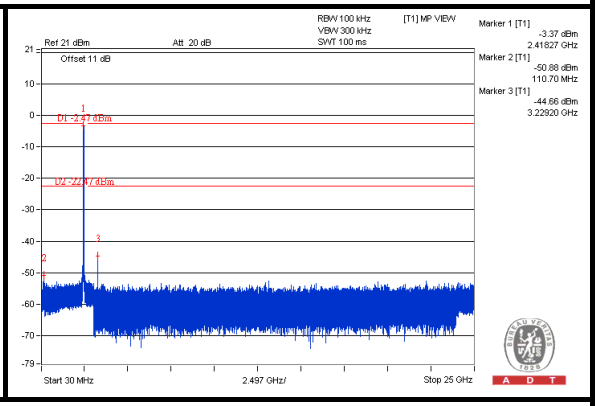


802.11n (40MHz)

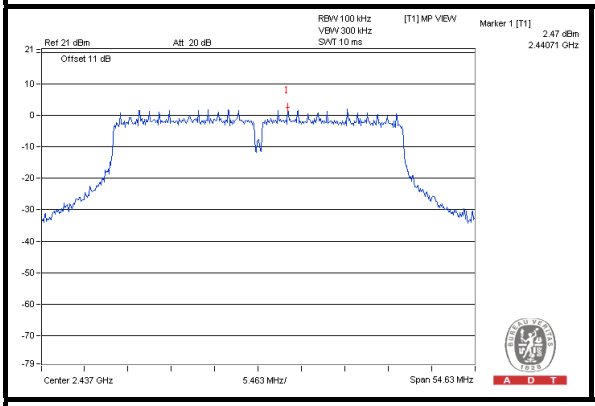
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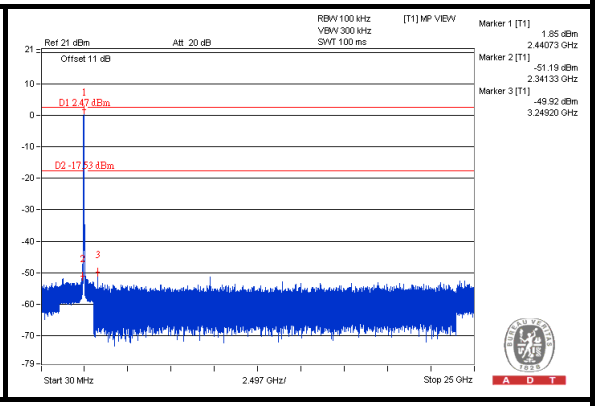
CH 3



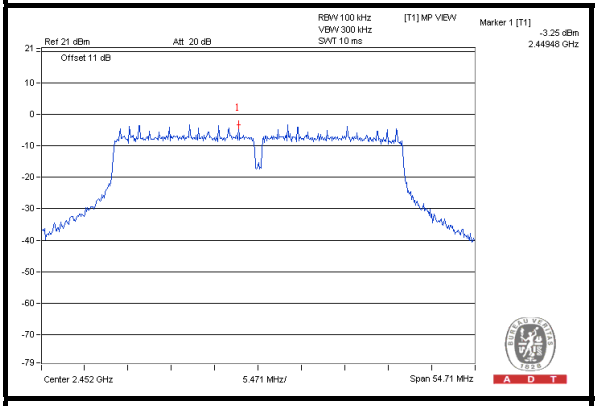


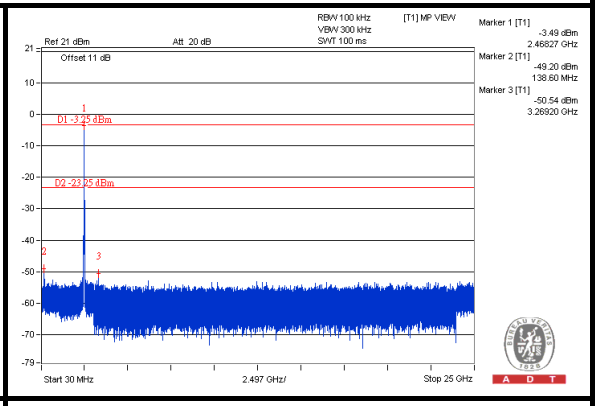
CH 6



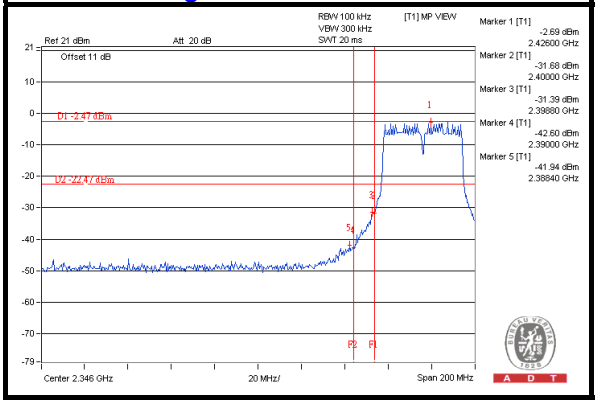


CH 9

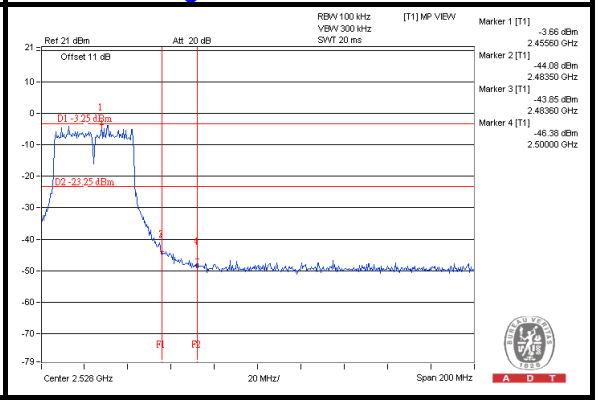




CH 3 Band edge

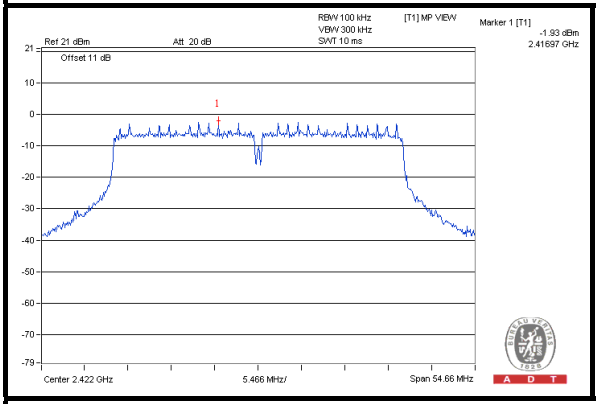


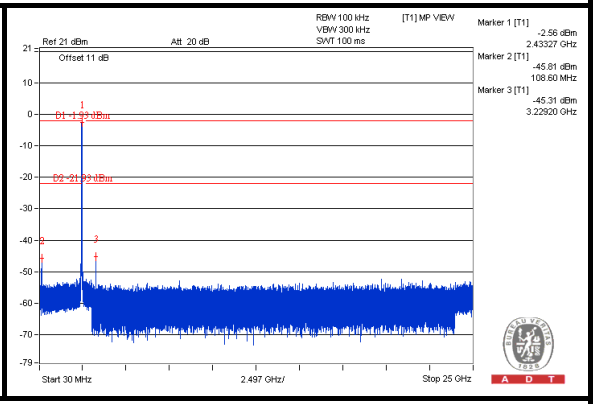
CH 9 Band edge



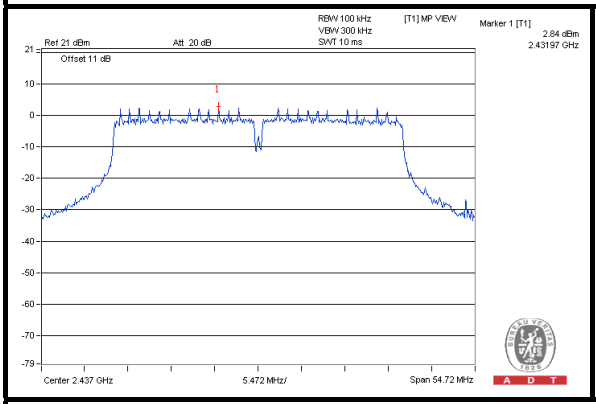
CHAIN 1

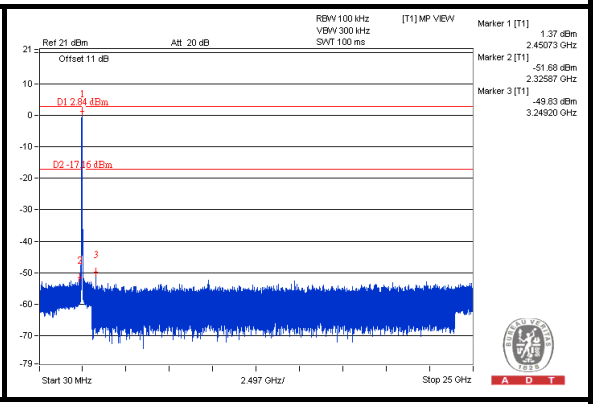
CH 3



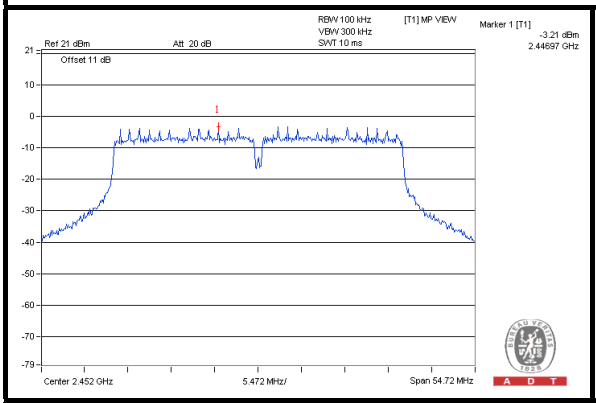


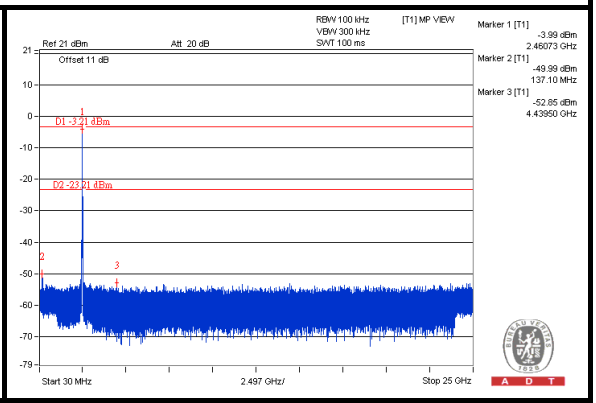
CH 6



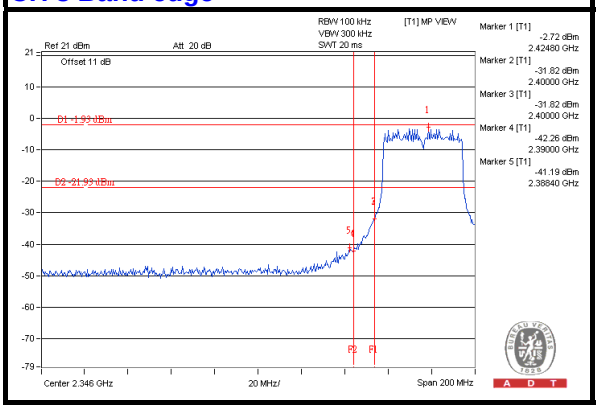


CH 9

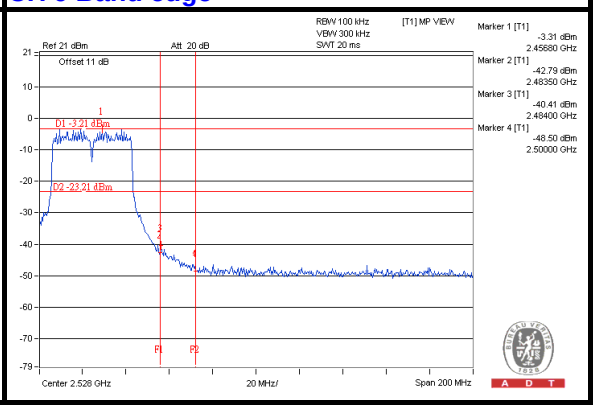




CH 3 Band edge



CH 9 Band edge



5. TEST TYPES AND RESULTS (FOR 5.0GHz BAND)

5.1 RADIATED EMISSION MEASUREMENT

5.1.1 LIMITS OF RADIATED EMISSION 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.

5.1.2 TEST INSTRUMENTS

Same as item 4.1.2.

5.1.3 TEST PROCEDURES

Same as item 4.1.3.

5.1.4 DEVIATION FROM TEST STANDARD

No deviation.

5.1.5 TEST SETUP

Same as item 4.1.5.

5.1.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.

5.1.7 TEST RESULTS

ABOVE 1GHz DATA：

TEST MODE A1

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	#5725.00	86.3 PK	97.3	-11.0	1.24 H	30	80.00	6.30
2	#5725.00	77.3 AV	88.3	-11.0	1.24 H	30	71.00	6.30
3	*5745.00	117.3 PK			1.24 H	30	77.10	40.20
4	*5745.00	108.3 AV			1.24 H	30	68.10	40.20
5	11490.00	60.6 PK	74.0	-13.4	1.11 H	111	42.50	18.10
6	11490.00	47.4 AV	54.0	-6.6	1.11 H	111	29.30	18.10
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	#5725.00	87.2 PK	98.2	-11.0	1.17 V	13	80.90	6.30
2	#5725.00	78.2 AV	89.2	-11.0	1.17 V	13	71.90	6.30
3	*5745.00	118.2 PK			1.17 V	13	78.00	40.20
4	*5745.00	109.2 AV			1.17 V	13	69.00	40.20
5	11490.00	60.3 PK	74.0	-13.7	1.00 V	130	42.20	18.10
6	11490.00	47.5 AV	54.0	-6.5	1.00 V	130	29.40	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	*5785.00	117.9 PK			1.18 H	26	77.60	40.30
2	*5785.00	108.2 AV			1.18 H	26	67.90	40.30
3	11570.00	60.7 PK	74.0	-13.3	1.06 H	124	42.50	18.20
4	11570.00	47.2 AV	54.0	-6.8	1.06 H	124	29.00	18.20
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	*5785.00	118.2 PK			1.23 V	10	77.90	40.30
2	*5785.00	109.1 AV			1.23 V	10	68.80	40.30
3	11570.00	60.2 PK	74.0	-13.8	1.00 V	52	42.00	18.20
4	11570.00	47.0 AV	54.0	-7.0	1.00 V	52	28.80	18.20

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) – Pre-Amplifier 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 limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	*5825.00	117.0 PK			1.15 H	20	76.70	40.30
2	*5825.00	108.0 AV			1.15 H	20	67.70	40.30
3	#5850.00	85.0 PK	97.0	-12.0	1.15 H	20	78.40	6.60
4	#5850.00	76.0 AV	88.0	-12.0	1.15 H	20	69.40	6.60
5	11650.00	60.9 PK	74.0	-13.1	1.09 H	115	42.80	18.10
6	11650.00	47.8 AV	54.0	-6.2	1.09 H	115	29.70	18.10
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	*5825.00	118.0 PK			1.30 V	8	77.70	40.30
2	*5825.00	109.0 AV			1.30 V	8	68.70	40.30
3	#5850.00	86.0 PK	98.0	-12.0	1.30 V	8	79.40	6.60
4	#5850.00	77.0 AV	89.0	-12.0	1.30 V	8	70.40	6.60
5	11650.00	60.7 PK	74.0	-13.3	1.00 V	30	42.60	18.10
6	11650.00	47.6 AV	54.0	-6.4	1.00 V	30	29.50	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	87.8 PK	94.3	-6.5	1.00 H	325	47.70	40.10
2	#5725.00	75.8 AV	82.3	-6.5	1.00 H	325	35.70	40.10
3	*5745.00	114.3 PK			1.00 H	322	74.10	40.20
4	*5745.00	102.3 AV			1.00 H	322	62.10	40.20
5	11490.00	60.5 PK	74.0	-13.5	1.00 H	75	7.70	52.80
6	11490.00	47.3 AV	54.0	-6.7	1.00 H	75	-5.50	52.80
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	#5725.00	88.5 PK	95.3	-6.8	1.30 V	17	48.40	40.10
2	#5725.00	76.0 AV	82.8	-6.8	1.30 V	17	35.90	40.10
3	*5745.00	115.3 PK			1.33 V	17	75.10	40.20
4	*5745.00	102.8 AV			1.33 V	17	62.60	40.20
5	11490.00	61.2 PK	74.0	-12.8	1.00 V	250	8.40	52.80
6	11490.00	48.1 AV	54.0	-5.9	1.00 V	250	-4.70	52.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5785.00	113.3 PK			1.00 H	333	73.00	40.30
2	*5785.00	101.4 AV			1.00 H	333	61.10	40.30
3	11570.00	60.0 PK	74.0	-14.0	1.00 H	79	7.40	52.60
4	11570.00	46.7 AV	54.0	-7.3	1.00 H	79	-5.90	52.60
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	*5785.00	114.1 PK			1.31 V	19	73.80	40.30
2	*5785.00	101.7 AV			1.31 V	19	61.40	40.30
3	11570.00	60.5 PK	74.0	-13.5	1.00 V	255	7.90	52.60
4	11570.00	47.5 AV	54.0	-6.5	1.00 V	255	-5.10	52.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5825.00	113.0 PK			1.05 H	344	72.60	40.40
2	*5825.00	100.5 AV			1.05 H	344	60.10	40.40
3	#5850.00	76.7 PK	93.0	-16.3	1.05 H	346	36.20	40.50
4	#5850.00	64.2 AV	80.5	-16.3	1.05 H	346	23.70	40.50
5	11650.00	59.5 PK	74.0	-14.5	1.00 H	68	7.00	52.50
6	11650.00	46.1 AV	54.0	-7.9	1.00 H	68	-6.40	52.50
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	*5825.00	113.7 PK			1.30 V	18	73.30	40.40
2	*5825.00	101.1 AV			1.30 V	18	60.70	40.40
3	#5850.00	75.8 PK	93.7	-17.9	1.30 V	21	35.30	40.50
4	#5850.00	63.2 AV	81.1	-17.9	1.30 V	21	22.70	40.50
5	11650.00	60.1 PK	74.0	-13.9	1.00 V	245	7.60	52.50
6	11650.00	47.0 AV	54.0	-7.0	1.00 V	245	-5.50	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	87.9 PK	89.8	-1.9	1.00 H	325	47.80	40.10
2	#5725.00	76.4 AV	78.3	-1.9	1.00 H	325	36.30	40.10
3	*5755.00	109.8 PK			1.00 H	322	69.60	40.20
4	*5755.00	98.3 AV			1.00 H	322	58.10	40.20
5	11510.00	58.9 PK	74.0	-15.1	1.00 H	50	6.20	52.70
6	11510.00	45.8 AV	54.0	-8.2	1.00 H	50	-6.90	52.70
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	#5725.00	89.7 PK	91.9	-2.2	1.30 V	19	49.60	40.10
2	#5725.00	77.5 AV	79.7	-2.2	1.30 V	19	37.40	40.10
3	*5755.00	111.9 PK			1.32 V	18	71.70	40.20
4	*5755.00	99.7 AV			1.32 V	18	59.50	40.20
5	11510.00	59.3 PK	74.0	-14.7	1.00 V	230	6.60	52.70
6	11510.00	46.7 AV	54.0	-7.3	1.00 V	230	-6.00	52.70

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.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5795.00	109.1 PK			1.00 H	341	68.80	40.30
2	*5795.00	97.2 AV			1.00 H	341	56.90	40.30
3	#5850.00	72.3 PK	89.1	-16.8	1.00 H	345	31.80	40.50
4	#5850.00	60.4 AV	77.2	-16.8	1.00 H	345	19.90	40.50
5	11590.00	58.4 PK	74.0	-15.6	1.00 H	41	5.90	52.50
6	11590.00	45.3 AV	54.0	-8.7	1.00 H	41	-7.20	52.50
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	*5795.00	110.6 PK			1.31 V	15	70.30	40.30
2	*5795.00	98.0 AV			1.31 V	15	57.70	40.30
3	#5850.00	71.8 PK	90.6	-18.8	1.33 V	22	31.30	40.50
4	#5850.00	59.2 AV	78.0	-18.8	1.33 V	22	18.70	40.50
5	11590.00	58.9 PK	74.0	-15.1	1.00 V	224	6.40	52.50
6	11590.00	46.2 AV	54.0	-7.8	1.00 V	224	-6.30	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

TEST MODE A2

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	#5725.00	86.3 PK	98.3	-12.0	1.53 H	354	80.00	6.30
2	#5725.00	76.2 AV	88.2	-12.0	1.53 H	354	69.90	6.30
3	*5745.00	118.3 PK			1.53 H	354	78.10	40.20
4	*5745.00	108.2 AV			1.53 H	354	68.00	40.20
5	11490.00	61.1 PK	74.0	-12.9	1.10 H	44	43.00	18.10
6	11490.00	48.2 AV	54.0	-5.8	1.10 H	44	30.10	18.10
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	#5725.00	85.3 PK	97.3	-12.0	1.30 V	2	79.00	6.30
2	#5725.00	75.2 AV	87.2	-12.0	1.30 V	2	68.90	6.30
3	*5745.00	117.3 PK			1.30 V	2	77.10	40.20
4	*5745.00	107.2 AV			1.30 V	2	67.00	40.20
5	11490.00	61.2 PK	74.0	-12.8	1.13 V	230	43.10	18.10
6	11490.00	48.3 AV	54.0	-5.7	1.13 V	230	30.20	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	*5785.00	118.7 PK			1.47 H	355	78.40	40.30
2	*5785.00	108.3 AV			1.47 H	355	68.00	40.30
3	11570.00	61.0 PK	74.0	-13.0	1.07 H	350	42.80	18.20
4	11570.00	48.0 AV	54.0	-6.0	1.07 H	350	29.80	18.20
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	*5785.00	117.8 PK			1.37 V	3	77.50	40.30
2	*5785.00	107.6 AV			1.37 V	3	67.30	40.30
3	11570.00	61.1 PK	74.0	-12.9	1.20 V	241	42.90	18.20
4	11570.00	48.2 AV	54.0	-5.8	1.20 V	241	30.00	18.20

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) – Pre-Amplifier 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 limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Brad Tung

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	*5825.00	117.2 PK			1.50 H	2	76.90	40.30
2	*5825.00	107.2 AV			1.50 H	2	66.90	40.30
3	#5850.00	85.2 PK	97.2	-12.0	1.50 H	2	78.60	6.60
4	#5850.00	75.2 AV	87.2	-12.0	1.50 H	2	68.60	6.60
5	11650.00	61.2 PK	74.0	-12.8	1.13 H	230	43.10	18.10
6	11650.00	48.3 AV	54.0	-5.7	1.13 H	230	30.20	18.10
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	*5825.00	116.2 PK			1.24 V	11	75.90	40.30
2	*5825.00	106.2 AV			1.24 V	11	65.90	40.30
3	#5850.00	84.2 PK	96.2	-12.0	1.24 V	11	77.60	6.60
4	#5850.00	74.2 AV	86.2	-12.0	1.24 V	11	67.60	6.60
5	11650.00	61.0 PK	74.0	-13.0	1.06 V	236	42.90	18.10
6	11650.00	48.1 AV	54.0	-5.9	1.06 V	236	30.00	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	89.0 PK	94.9	-5.9	1.60 H	13	48.90	40.10
2	#5725.00	79.0 AV	84.9	-5.9	1.60 H	13	38.90	40.10
3	*5745.00	114.9 PK			1.62 H	12	74.70	40.20
4	*5745.00	104.9 AV			1.62 H	12	64.70	40.20
5	11490.00	59.8 PK	74.0	-14.2	1.00 H	331	7.00	52.80
6	11490.00	47.0 AV	54.0	-7.0	1.00 H	331	-5.80	52.80
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	#5725.00	91.8 PK	96.2	-4.4	1.00 V	351	51.70	40.10
2	#5725.00	79.9 AV	84.3	-4.4	1.00 V	351	39.80	40.10
3	*5745.00	116.2 PK			1.00 V	358	76.00	40.20
4	*5745.00	104.3 AV			1.00 V	358	64.10	40.20
5	11490.00	60.5 PK	74.0	-13.5	1.00 V	250	7.70	52.80
6	11490.00	47.8 AV	54.0	-6.2	1.00 V	250	-5.00	52.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5785.00	115.7 PK			1.62 H	4	75.40	40.30
2	*5785.00	103.5 AV			1.62 H	4	63.20	40.30
3	11570.00	60.2 PK	74.0	-13.8	1.00 H	336	7.60	52.60
4	11570.00	47.2 AV	54.0	-6.8	1.00 H	336	-5.40	52.60
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	*5785.00	116.4 PK			1.54 V	2	76.10	40.30
2	*5785.00	103.9 AV			1.54 V	2	63.60	40.30
3	11570.00	60.8 PK	74.0	-13.2	1.00 V	255	8.20	52.60
4	11570.00	48.0 AV	54.0	-6.0	1.00 V	255	-4.60	52.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5825.00	115.2 PK			1.66 H	1	74.80	40.40
2	*5825.00	102.9 AV			1.66 H	1	62.50	40.40
3	#5850.00	79.1 PK	95.2	-16.1	1.66 H	357	38.60	40.50
4	#5850.00	66.8 AV	82.9	-16.1	1.66 H	357	26.30	40.50
5	11650.00	59.7 PK	74.0	-14.3	1.00 H	324	7.20	52.50
6	11650.00	46.8 AV	54.0	-7.2	1.00 H	324	-5.70	52.50
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	*5825.00	115.5 PK			1.42 V	2	75.10	40.40
2	*5825.00	103.5 AV			1.42 V	2	63.10	40.40
3	#5850.00	80.5 PK	95.5	-15.0	1.42 V	359	40.00	40.50
4	#5850.00	68.4 AV	83.5	-15.1	1.42 V	359	27.90	40.50
5	11650.00	60.2 PK	74.0	-13.8	1.00 V	241	7.70	52.50
6	11650.00	47.4 AV	54.0	-6.6	1.00 V	241	-5.10	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	91.1 PK	93.0	-1.9	1.60 H	3	51.00	40.10
2	#5725.00	79.0 AV	80.9	-1.9	1.60 H	3	38.90	40.10
3	*5755.00	113.0 PK			1.63 H	13	72.80	40.20
4	*5755.00	100.9 AV			1.63 H	13	60.70	40.20
5	11510.00	58.7 PK	74.0	-15.3	1.00 H	312	6.00	52.70
6	11510.00	45.8 AV	54.0	-8.2	1.00 H	312	-6.90	52.70
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	**#5725.00**	**93.2 PK**	**93.5**	**-0.3**	**1.42 V**	**359**	**53.10**	**40.10**
2	#5725.00	81.2 AV	81.6	-0.4	1.42 V	359	41.10	40.10
3	*5755.00	113.5 PK			1.43 V	2	73.30	40.20
4	*5755.00	101.6 AV			1.43 V	2	61.40	40.20
5	11510.00	59.0 PK	74.0	-15.0	1.00 V	203	6.30	52.70
6	11510.00	46.0 AV	54.0	-8.0	1.00 V	203	-6.70	52.70

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.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5795.00	112.6 PK			1.58 H	9	72.30	40.30
2	*5795.00	100.5 AV			1.58 H	9	60.20	40.30
3	#5850.00	77.5 PK	92.6	-15.1	1.59 H	12	37.00	40.50
4	#5850.00	65.4 AV	80.5	-15.1	1.59 H	12	24.90	40.50
5	11590.00	58.2 PK	74.0	-15.8	1.00 H	301	5.70	52.50
6	11590.00	45.3 AV	54.0	-8.7	1.00 H	301	-7.20	52.50
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	*5795.00	113.0 PK			1.34 V	2	72.70	40.30
2	*5795.00	101.0 AV			1.34 V	2	60.70	40.30
3	#5850.00	78.8 PK	93.0	-14.2	1.32 V	3	38.30	40.50
4	#5850.00	66.8 AV	81.0	-14.2	1.32 V	3	26.30	40.50
5	11590.00	58.6 PK	74.0	-15.4	1.00 V	199	6.10	52.50
6	11590.00	45.5 AV	54.0	-8.5	1.00 V	199	-7.00	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

TEST MODE B1

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	#5725.00	78.5 PK	91.7	-13.2	1.04 H	29	72.20	6.30
2	#5725.00	69.2 AV	82.4	-13.2	1.04 H	29	62.90	6.30
3	*5745.00	111.7 PK			1.06 H	23	71.50	40.20
4	*5745.00	102.4 AV			1.06 H	23	62.20	40.20
5	11490.00	60.1 PK	74.0	-13.9	1.03 H	35	42.00	18.10
6	11490.00	46.1 AV	54.0	-7.9	1.03 H	35	28.00	18.10
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	#5725.00	79.9 PK	93.1	-13.2	1.00 V	13	73.60	6.30
2	#5725.00	70.9 AV	84.1	-13.2	1.00 V	13	64.60	6.30
3	*5745.00	113.1 PK			1.00 V	15	72.90	40.20
4	*5745.00	104.1 AV			1.00 V	15	63.90	40.20
5	11490.00	59.3 PK	74.0	-14.7	1.00 V	33	41.20	18.10
6	11490.00	45.5 AV	54.0	-8.5	1.00 V	33	27.40	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5785.00	113.4 PK			1.06 H	15	73.10	40.30
2	*5785.00	103.7 AV			1.06 H	15	63.40	40.30
3	11570.00	60.3 PK	74.0	-13.7	1.00 H	30	42.10	18.20
4	11570.00	46.4 AV	54.0	-7.6	1.00 H	30	28.20	18.20
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	*5785.00	114.0 PK			1.00 V	3	73.70	40.30
2	*5785.00	104.7 AV			1.00 V	3	64.40	40.30
3	11570.00	59.4 PK	74.0	-14.6	1.00 V	31	41.20	18.20
4	11570.00	46.0 AV	54.0	-8.0	1.00 V	31	27.80	18.20

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) – Pre-Amplifier 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 limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5825.00	112.9 PK			1.05 H	18	72.60	40.30
2	*5825.00	103.2 AV			1.05 H	18	62.90	40.30
3	#5850.00	73.7 PK	92.9	-19.2	1.02 H	20	67.10	6.60
4	#5850.00	64.0 AV	83.2	-19.2	1.02 H	20	57.40	6.60
5	11650.00	60.0 PK	74.0	-14.0	1.02 H	32	41.90	18.10
6	11650.00	46.2 AV	54.0	-7.8	1.02 H	32	28.10	18.10
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	*5825.00	114.0 PK			1.00 V	7	73.70	40.30
2	*5825.00	104.1 AV			1.00 V	7	63.80	40.30
3	#5850.00	74.8 PK	94.0	-19.2	1.00 V	9	68.20	6.60
4	#5850.00	64.9 AV	84.1	-19.2	1.00 V	9	58.30	6.60
5	11650.00	59.1 PK	74.0	-14.9	1.00 V	30	41.00	18.10
6	11650.00	45.7 AV	54.0	-8.3	1.00 V	30	27.60	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	90.8 PK	95.7	-4.9	1.15 H	346	50.70	40.10
2	#5725.00	80.3 AV	85.2	-4.9	1.15 H	346	40.20	40.10
3	*5745.00	115.7 PK			1.14 H	345	75.50	40.20
4	*5745.00	105.2 AV			1.14 H	345	65.00	40.20
5	11490.00	59.8 PK	74.0	-14.2	1.00 H	230	7.00	52.80
6	11490.00	47.8 AV	54.0	-6.2	1.00 H	230	-5.00	52.80
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	#5725.00	85.1 PK	91.0	-5.9	1.00 V	320	45.00	40.10
2	#5725.00	74.8 AV	80.7	-5.9	1.00 V	320	34.70	40.10
3	*5745.00	111.0 PK			1.00 V	320	70.80	40.20
4	*5745.00	100.7 AV			1.00 V	320	60.50	40.20
5	11490.00	59.0 PK	74.0	-15.0	1.00 V	70	6.20	52.80
6	11490.00	47.1 AV	54.0	-6.9	1.00 V	70	-5.70	52.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5785.00	115.0 PK			1.07 H	345	74.70	40.30
2	*5785.00	104.2 AV			1.07 H	345	63.90	40.30
3	11570.00	59.2 PK	74.0	-14.8	1.00 H	237	6.60	52.60
4	11570.00	47.1 AV	54.0	-6.9	1.00 H	237	-5.50	52.60
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	*5785.00	110.5 PK			1.00 V	311	70.20	40.30
2	*5785.00	100.3 AV			1.00 V	311	60.00	40.30
3	11570.00	58.5 PK	74.0	-15.5	1.00 V	77	5.90	52.60
4	11570.00	46.7 AV	54.0	-7.3	1.00 V	77	-5.90	52.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5825.00	113.5 PK			1.12 H	346	73.10	40.40
2	*5825.00	103.8 AV			1.12 H	346	63.40	40.40
3	#5850.00	75.9 PK	93.5	-17.6	1.10 H	345	35.40	40.50
4	#5850.00	66.2 AV	83.8	-17.6	1.10 H	345	25.70	40.50
5	11650.00	58.5 PK	74.0	-15.5	1.00 H	216	6.00	52.50
6	11650.00	46.3 AV	54.0	-7.7	1.00 H	216	-6.20	52.50
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	*5825.00	108.9 PK			1.00 V	325	68.50	40.40
2	*5825.00	99.0 AV			1.00 V	325	58.60	40.40
3	#5850.00	70.2 PK	88.9	-18.7	1.00 V	325	29.70	40.50
4	#5850.00	60.3 AV	79.0	-18.7	1.00 V	325	19.80	40.50
5	11650.00	57.9 PK	74.0	-16.1	1.00 V	92	5.40	52.50
6	11650.00	46.0 AV	54.0	-8.0	1.00 V	92	-6.50	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	88.2 PK	91.1	-2.9	1.12 H	348	48.10	40.10
2	#5725.00	76.1 AV	79.0	-2.9	1.12 H	348	36.00	40.10
3	*5755.00	111.1 PK			1.12 H	346	70.90	40.20
4	*5755.00	99.0 AV			1.12 H	346	58.80	40.20
5	11510.00	61.2 PK	74.0	-12.8	1.00 H	90	8.50	52.70
6	11510.00	48.4 AV	54.0	-5.6	1.00 H	90	-4.30	52.70
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	#5725.00	83.1 PK	86.9	-3.8	1.00 V	321	43.00	40.10
2	#5725.00	71.4 AV	75.2	-3.8	1.00 V	321	31.30	40.10
3	*5755.00	106.9 PK			1.00 V	319	66.70	40.20
4	*5755.00	95.2 AV			1.00 V	319	55.00	40.20
5	11510.00	60.4 PK	74.0	-13.6	1.00 V	210	7.70	52.70
6	11510.00	47.5 AV	54.0	-6.5	1.00 V	210	-5.20	52.70

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.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5795.00	110.3 PK			1.06 H	346	70.00	40.30
2	*5795.00	98.4 AV			1.06 H	346	58.10	40.30
3	#5850.00	71.7 PK	90.3	-18.6	1.06 H	347	31.20	40.50
4	#5850.00	59.8 AV	78.4	-18.6	1.06 H	347	19.30	40.50
5	11590.00	60.6 PK	74.0	-13.4	1.00 H	99	8.10	52.50
6	11590.00	48.0 AV	54.0	-6.0	1.00 H	99	-4.50	52.50
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	*5795.00	105.8 PK			1.00 V	322	65.50	40.30
2	*5795.00	94.1 AV			1.00 V	322	53.80	40.30
3	#5850.00	70.8 PK	85.8	-15.0	1.00 V	320	30.30	40.50
4	#5850.00	59.1 AV	74.1	-15.0	1.00 V	320	18.60	40.50
5	11590.00	59.9 PK	74.0	-14.1	1.00 V	222	7.40	52.50
6	11590.00	47.1 AV	54.0	-6.9	1.00 V	222	-5.40	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

TEST MODE B2

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	#5725.00	79.0 PK	93.7	-14.7	1.11 H	332	72.70	6.30
2	#5725.00	68.5 AV	83.2	-14.7	1.11 H	332	62.20	6.30
3	*5745.00	113.7 PK			1.12 H	335	73.50	40.20
4	*5745.00	103.2 AV			1.12 H	335	63.00	40.20
5	11490.00	59.3 PK	74.0	-14.7	1.01 H	303	41.20	18.10
6	11490.00	46.6 AV	54.0	-7.4	1.01 H	303	28.50	18.10
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	#5725.00	75.0 PK	89.7	-14.7	1.02 V	7	68.70	6.30
2	#5725.00	65.3 AV	80.0	-14.7	1.02 V	7	59.00	6.30
3	*5745.00	109.7 PK			1.03 V	6	69.50	40.20
4	*5745.00	100.0 AV			1.03 V	6	59.80	40.20
5	11490.00	59.2 PK	74.0	-14.8	1.00 V	339	41.10	18.10
6	11490.00	46.2 AV	54.0	-7.8	1.00 V	339	28.10	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5785.00	110.5 PK			1.00 H	335	70.20	40.30
2	*5785.00	101.0 AV			1.00 H	335	60.70	40.30
3	11570.00	58.7 PK	74.0	-15.3	1.00 H	298	40.50	18.20
4	11570.00	45.7 AV	54.0	-8.3	1.00 H	298	27.50	18.20
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	*5785.00	110.4 PK			1.01 V	7	70.10	40.30
2	*5785.00	100.7 AV			1.01 V	7	60.40	40.30
3	11570.00	58.5 PK	74.0	-15.5	1.00 V	335	40.30	18.20
4	11570.00	45.2 AV	54.0	-8.8	1.00 V	335	27.00	18.20

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) – Pre-Amplifier 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 limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5825.00	111.1 PK			1.26 H	338	70.80	40.30
2	*5825.00	101.1 AV			1.26 H	338	60.80	40.30
3	#5850.00	71.6 PK	91.1	-19.5	1.23 H	336	65.00	6.60
4	#5850.00	61.6 AV	81.1	-19.5	1.23 H	336	55.00	6.60
5	11650.00	58.1 PK	74.0	-15.9	1.03 H	309	40.00	18.10
6	11650.00	45.8 AV	54.0	-8.2	1.03 H	309	27.70	18.10
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	*5825.00	110.3 PK			1.02 V	10	70.00	40.30
2	*5825.00	100.5 AV			1.02 V	10	60.20	40.30
3	#5850.00	70.8 PK	90.3	-19.5	1.02 V	9	64.20	6.60
4	#5850.00	61.0 AV	80.5	-19.5	1.02 V	9	54.40	6.60
5	11650.00	57.9 PK	74.0	-16.1	1.00 V	337	39.80	18.10
6	11650.00	44.3 AV	54.0	-9.7	1.00 V	337	26.20	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	90.4 PK	98.7	-8.3	1.00 H	3	50.30	40.10
2	#5725.00	79.5 AV	87.8	-8.3	1.00 H	3	39.40	40.10
3	*5745.00	118.7 PK			1.00 H	1	78.50	40.20
4	*5745.00	107.8 AV			1.00 H	1	67.60	40.20
5	11490.00	61.1 PK	74.0	-12.9	1.00 H	275	8.30	52.80
6	11490.00	48.6 AV	54.0	-5.4	1.00 H	275	-4.20	52.80
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	#5725.00	95.4 PK	101.0	-5.6	1.00 V	351	55.30	40.10
2	#5725.00	84.0 AV	89.6	-5.6	1.00 V	351	43.90	40.10
3	*5745.00	121.0 PK			1.00 V	358	80.80	40.20
4	*5745.00	109.6 AV			1.00 V	358	69.40	40.20
5	11490.00	62.3 PK	74.0	-11.7	1.00 V	86	9.50	52.80
6	11490.00	50.0 AV	54.0	-4.0	1.00 V	86	-2.80	52.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5785.00	118.4 PK			1.10 H	359	78.10	40.30
2	*5785.00	107.2 AV			1.10 H	359	66.90	40.30
3	11570.00	60.7 PK	74.0	-13.3	1.00 H	281	8.10	52.60
4	11570.00	48.2 AV	54.0	-5.8	1.00 H	281	-4.40	52.60
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	*5785.00	120.1 PK			1.00 V	357	79.80	40.30
2	*5785.00	109.4 AV			1.00 V	357	69.10	40.30
3	11570.00	61.8 PK	74.0	-12.2	1.00 V	93	9.20	52.60
4	11570.00	49.6 AV	54.0	-4.4	1.00 V	93	-3.00	52.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5825.00	117.2 PK			1.09 H	356	76.80	40.40
2	*5825.00	106.0 AV			1.09 H	356	65.60	40.40
3	#5850.00	82.1 PK	97.2	-15.1	1.10 H	3	41.60	40.50
4	#5850.00	70.9 AV	86.0	-15.1	1.10 H	3	30.40	40.50
5	11650.00	59.9 PK	74.0	-14.1	1.00 H	299	7.40	52.50
6	11650.00	47.5 AV	54.0	-6.5	1.00 H	299	-5.00	52.50
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	*5825.00	119.4 PK			1.00 V	351	79.00	40.40
2	*5825.00	108.3 AV			1.00 V	351	67.90	40.40
3	#5850.00	87.0 PK	99.4	-12.4	1.00 V	350	46.50	40.50
4	#5850.00	75.9 AV	88.3	-12.4	1.00 V	350	35.40	40.50
5	11650.00	61.3 PK	74.0	-12.7	1.00 V	279	8.80	52.50
6	11650.00	48.9 AV	54.0	-5.1	1.00 V	279	-3.60	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	88.2 PK	93.5	-5.3	1.00 H	6	48.10	40.10
2	#5725.00	76.2 AV	81.5	-5.3	1.00 H	6	36.10	40.10
3	*5755.00	113.5 PK			1.00 H	5	73.30	40.20
4	*5755.00	101.5 AV			1.00 H	5	61.30	40.20
5	11510.00	59.8 PK	74.0	-14.2	1.00 H	290	7.10	52.70
6	11510.00	47.7 AV	54.0	-6.3	1.00 H	290	-5.00	52.70
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	#5725.00	92.2 PK	95.6	-3.4	1.00 V	354	52.10	40.10
2	#5725.00	80.7 AV	84.1	-3.4	1.00 V	354	40.60	40.10
3	*5755.00	115.6 PK			1.00 V	354	75.40	40.20
4	*5755.00	104.1 AV			1.00 V	354	63.90	40.20
5	11510.00	61.1 PK	74.0	-12.9	1.00 V	105	8.40	52.70
6	11510.00	49.1 AV	54.0	-4.9	1.00 V	105	-3.60	52.70

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.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5795.00	113.0 PK			1.09 H	359	72.70	40.30
2	*5795.00	100.9 AV			1.09 H	359	60.60	40.30
3	#5850.00	71.4 PK	93.0	-21.6	1.10 H	357	30.90	40.50
4	#5850.00	59.3 AV	80.9	-21.6	1.10 H	357	18.80	40.50
5	11590.00	59.3 PK	74.0	-14.7	1.00 H	299	6.80	52.50
6	11590.00	47.1 AV	54.0	-6.9	1.00 H	299	-5.40	52.50
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	*5795.00	115.0 PK			1.00 V	354	74.70	40.30
2	*5795.00	103.3 AV			1.00 V	354	63.00	40.30
3	#5850.00	77.6 PK	95.0	-17.4	1.00 V	351	37.10	40.50
4	#5850.00	65.9 AV	83.3	-17.4	1.00 V	351	25.40	40.50
5	11590.00	60.7 PK	74.0	-13.3	1.00 V	116	8.20	52.50
6	11590.00	49.5 AV	54.0	-4.5	1.00 V	116	-3.00	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

TEST MODE C1

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	#5725.00	72.3 PK	85.0	-12.7	1.07 H	198	66.00	6.30
2	#5725.00	62.8 AV	75.5	-12.7	1.07 H	198	56.50	6.30
3	*5745.00	105.0 PK			1.08 H	192	64.80	40.20
4	*5745.00	95.5 AV			1.08 H	192	55.30	40.20
5	11490.00	58.3 PK	74.0	-15.7	1.00 H	111	40.20	18.10
6	11490.00	44.5 AV	54.0	-9.5	1.00 H	111	26.40	18.10
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	#5725.00	81.9 PK	94.6	-12.7	1.00 V	323	75.60	6.30
2	#5725.00	73.5 AV	86.2	-12.7	1.00 V	323	67.20	6.30
3	*5745.00	114.6 PK			1.00 V	325	74.40	40.20
4	*5745.00	106.2 AV			1.00 V	325	66.00	40.20
5	11490.00	59.4 PK	74.0	-14.6	1.00 V	302	41.30	18.10
6	11490.00	46.0 AV	54.0	-8.0	1.00 V	302	27.90	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5785.00	106.1 PK			1.00 H	198	65.80	40.30
2	*5785.00	95.7 AV			1.00 H	198	55.40	40.30
3	11570.00	59.1 PK	74.0	-14.9	1.00 H	114	40.90	18.20
4	11570.00	45.5 AV	54.0	-8.5	1.00 H	114	27.30	18.20
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	*5785.00	115.1 PK			1.00 V	232	74.80	40.30
2	*5785.00	105.9 AV			1.00 V	232	65.60	40.30
3	11570.00	60.1 PK	74.0	-13.9	1.00 V	312	41.90	18.20
4	11570.00	46.9 AV	54.0	-7.1	1.00 V	312	28.70	18.20

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) – Pre-Amplifier 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 limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5825.00	106.4 PK			1.02 H	198	66.10	40.30
2	*5825.00	96.9 AV			1.02 H	198	56.60	40.30
3	#5850.00	66.9 PK	86.4	-19.5	1.03 H	193	60.30	6.60
4	#5850.00	57.4 AV	76.9	-19.5	1.03 H	193	50.80	6.60
5	11650.00	58.5 PK	74.0	-15.5	1.00 H	116	40.40	18.10
6	11650.00	44.7 AV	54.0	-9.3	1.00 H	116	26.60	18.10
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	*5825.00	115.9 PK			1.00 V	231	75.60	40.30
2	*5825.00	106.3 AV			1.00 V	231	66.00	40.30
3	#5850.00	76.4 PK	95.9	-19.5	1.00 V	233	69.80	6.60
4	#5850.00	66.8 AV	86.3	-19.5	1.00 V	233	60.20	6.60
5	11650.00	60.0 PK	74.0	-14.0	1.00 V	303	41.90	18.10
6	11650.00	46.1 AV	54.0	-7.9	1.00 V	303	28.00	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	82.5 PK	89.4	-6.9	1.21 H	64	42.40	40.10
2	#5725.00	70.2 AV	77.1	-6.9	1.21 H	64	30.10	40.10
3	*5745.00	109.4 PK			1.21 H	63	69.20	40.20
4	*5745.00	97.1 AV			1.21 H	63	56.90	40.20
5	11490.00	61.3 PK	74.0	-12.7	1.24 H	33	8.50	52.80
6	11490.00	45.2 AV	54.0	-8.8	1.24 H	33	-7.60	52.80
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	#5725.00	91.3 PK	98.2	-6.9	1.09 V	196	51.20	40.10
2	#5725.00	79.1 AV	86.0	-6.9	1.09 V	196	39.00	40.10
3	*5745.00	118.2 PK			1.09 V	196	78.00	40.20
4	*5745.00	106.0 AV			1.09 V	196	65.80	40.20
5	11490.00	63.0 PK	74.0	-11.0	1.36 V	149	10.20	52.80
6	11490.00	48.6 AV	54.0	-5.4	1.36 V	149	-4.20	52.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5785.00	109.1 PK			1.22 H	70	68.80	40.30
2	*5785.00	97.1 AV			1.22 H	70	56.80	40.30
3	11570.00	61.0 PK	74.0	-13.0	1.20 H	51	8.40	52.60
4	11570.00	46.0 AV	54.0	-8.0	1.20 H	51	-6.60	52.60
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	*5785.00	117.9 PK			1.10 V	199	77.60	40.30
2	*5785.00	105.9 AV			1.10 V	199	65.60	40.30
3	11570.00	62.5 PK	74.0	-11.5	1.28 V	154	9.90	52.60
4	11570.00	48.2 AV	54.0	-5.8	1.28 V	154	-4.40	52.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5825.00	108.3 PK			1.17 H	66	67.90	40.40
2	*5825.00	96.8 AV			1.17 H	66	56.40	40.40
3	#5850.00	74.3 PK	88.3	-14.0	1.17 H	66	33.80	40.50
4	#5850.00	62.8 AV	76.8	-14.0	1.17 H	66	22.30	40.50
5	11650.00	59.7 PK	74.0	-14.3	1.36 H	49	7.20	52.50
6	11650.00	46.1 AV	54.0	-7.9	1.36 H	49	-6.40	52.50
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	*5825.00	117.3 PK			1.00 V	197	76.90	40.40
2	*5825.00	104.3 AV			1.00 V	197	63.90	40.40
3	#5850.00	83.3 PK	97.3	-14.0	1.00 V	197	42.80	40.50
4	#5850.00	70.3 AV	84.3	-14.0	1.00 V	197	29.80	40.50
5	11650.00	60.9 PK	74.0	-13.1	1.12 V	268	8.40	52.50
6	11650.00	47.9 AV	54.0	-6.1	1.12 V	268	-4.60	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	83.6 PK	84.6	-1.0	1.21 H	66	43.50	40.10
2	#5725.00	72.0 AV	73.0	-1.0	1.21 H	66	31.90	40.10
3	*5755.00	104.6 PK			1.21 H	66	64.40	40.20
4	*5755.00	93.0 AV			1.21 H	66	52.80	40.20
5	11510.00	61.0 PK	74.0	-13.0	1.36 H	93	8.30	52.70
6	11510.00	47.2 AV	54.0	-6.8	1.36 H	93	-5.50	52.70
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	#5725.00	92.4 PK	93.4	-1.0	1.10 V	201	52.30	40.10
2	#5725.00	81.0 AV	82.0	-1.0	1.10 V	201	40.90	40.10
3	*5755.00	113.4 PK			1.10 V	201	73.20	40.20
4	*5755.00	102.0 AV			1.10 V	201	61.80	40.20
5	11510.00	61.8 PK	74.0	-12.2	1.24 V	78	9.10	52.70
6	11510.00	48.2 AV	54.0	-5.8	1.24 V	78	-4.50	52.70

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.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5795.00	104.1 PK			1.24 H	70	63.80	40.30
2	*5795.00	92.9 AV			1.24 H	70	52.60	40.30
3	#5850.00	66.1 PK	84.1	-18.0	1.24 H	70	25.60	40.50
4	#5850.00	54.9 AV	72.9	-18.0	1.24 H	70	14.40	40.50
5	11590.00	60.4 PK	74.0	-13.6	1.39 H	100	7.90	52.50
6	11590.00	47.2 AV	54.0	-6.8	1.39 H	100	-5.30	52.50
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	*5795.00	113.3 PK			1.18 V	198	73.00	40.30
2	*5795.00	101.3 AV			1.18 V	198	61.00	40.30
3	#5850.00	75.3 PK	93.3	-18.0	1.18 V	198	34.80	40.50
4	#5850.00	63.3 AV	81.3	-18.0	1.18 V	198	22.80	40.50
5	11590.00	60.9 PK	74.0	-13.1	1.30 V	148	8.40	52.50
6	11590.00	47.9 AV	54.0	-6.1	1.30 V	148	-4.60	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

TEST MODE C2

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	#5725.00	73.1 PK	85.0	-11.9	1.72 H	62	66.80	6.30
2	#5725.00	63.3 AV	75.2	-11.9	1.72 H	62	57.00	6.30
3	*5745.00	105.0 PK			1.71 H	65	64.80	40.20
4	*5745.00	95.2 AV			1.71 H	65	55.00	40.20
5	11490.00	58.4 PK	74.0	-15.6	1.00 H	100	40.30	18.10
6	11490.00	45.3 AV	54.0	-8.7	1.00 H	100	27.20	18.10
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	#5725.00	83.5 PK	95.4	-11.9	1.00 V	235	77.20	6.30
2	#5725.00	73.4 AV	85.3	-11.9	1.00 V	235	67.10	6.30
3	*5745.00	115.4 PK			1.00 V	231	75.20	40.20
4	*5745.00	105.3 AV			1.00 V	231	65.10	40.20
5	11490.00	58.6 PK	74.0	-15.4	1.00 V	288	40.50	18.10
6	11490.00	45.8 AV	54.0	-8.2	1.00 V	288	27.70	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5785.00	102.9 PK			1.76 H	66	62.60	40.30
2	*5785.00	93.4 AV			1.76 H	66	53.10	40.30
3	11570.00	59.1 PK	74.0	-14.9	1.03 H	108	40.90	18.20
4	11570.00	46.1 AV	54.0	-7.9	1.03 H	108	27.90	18.20
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	*5785.00	113.8 PK			1.00 V	228	73.50	40.30
2	*5785.00	103.5 AV			1.00 V	228	63.20	40.30
3	11570.00	59.2 PK	74.0	-14.8	1.00 V	282	41.00	18.20
4	11570.00	46.5 AV	54.0	-7.5	1.00 V	282	28.30	18.20

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) – Pre-Amplifier 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 limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 67%RH	TESTED BY	Alan Wu

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	*5825.00	104.5 PK			1.00 H	86	64.20	40.30
2	*5825.00	94.4 AV			1.00 H	86	54.10	40.30
3	#5850.00	65.6 PK	84.5	-18.9	1.00 H	85	59.00	6.60
4	#5850.00	55.5 AV	74.4	-18.9	1.00 H	85	48.90	6.60
5	11650.00	58.5 PK	74.0	-15.5	1.00 H	104	40.40	18.10
6	11650.00	45.2 AV	54.0	-8.8	1.00 H	104	27.10	18.10
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	*5825.00	113.1 PK			1.00 V	231	72.80	40.30
2	*5825.00	103.3 AV			1.00 V	231	63.00	40.30
3	#5850.00	74.2 PK	93.1	-18.9	1.00 V	237	67.60	6.60
4	#5850.00	64.4 AV	83.3	-18.9	1.00 V	237	57.80	6.60
5	11650.00	59.0 PK	74.0	-15.0	1.00 V	287	40.90	18.10
6	11650.00	45.7 AV	54.0	-8.3	1.00 V	287	27.60	18.10

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) – Pre-Amplifier 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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	82.1 PK	89.0	-6.9	1.05 H	138	42.00	40.10
2	#5725.00	69.8 AV	76.7	-6.9	1.05 H	138	29.70	40.10
3	*5745.00	109.0 PK			1.05 H	135	68.80	40.20
4	*5745.00	96.7 AV			1.05 H	135	56.50	40.20
5	11490.00	58.6 PK	74.0	-15.4	1.00 H	180	5.80	52.80
6	11490.00	46.1 AV	54.0	-7.9	1.00 H	180	-6.70	52.80
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	#5725.00	88.8 PK	97.0	-8.2	1.10 V	147	48.70	40.10
2	#5725.00	76.2 AV	84.4	-8.2	1.10 V	147	36.10	40.10
3	*5745.00	117.0 PK			1.11 V	145	76.80	40.20
4	*5745.00	104.4 AV			1.11 V	145	64.20	40.20
5	11490.00	59.1 PK	74.0	-14.9	1.00 V	100	6.30	52.80
6	11490.00	46.7 AV	54.0	-7.3	1.00 V	100	-6.10	52.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 157	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5785.00	108.8 PK			1.06 H	141	68.50	40.30
2	*5785.00	96.4 AV			1.06 H	141	56.10	40.30
3	11570.00	58.5 PK	74.0	-15.5	1.00 H	188	5.90	52.60
4	11570.00	45.9 AV	54.0	-8.1	1.00 H	188	-6.70	52.60
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	*5785.00	116.7 PK			1.09 V	145	76.40	40.30
2	*5785.00	103.9 AV			1.09 V	145	63.60	40.30
3	11570.00	58.9 PK	74.0	-15.1	1.00 V	110	6.30	52.60
4	11570.00	46.4 AV	54.0	-7.6	1.00 V	110	-6.20	52.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 165	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5825.00	108.1 PK			1.02 H	134	67.70	40.40
2	*5825.00	95.7 AV			1.02 H	134	55.30	40.40
3	#5850.00	62.8 PK	88.1	-25.3	1.03 H	136	22.30	40.50
4	#5850.00	50.4 AV	75.7	-25.3	1.03 H	136	9.90	40.50
5	11650.00	58.1 PK	74.0	-15.9	1.00 H	174	5.60	52.50
6	11650.00	45.4 AV	54.0	-8.6	1.00 H	174	-7.10	52.50
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	*5825.00	115.9 PK			1.07 V	142	75.50	40.40
2	*5825.00	103.9 AV			1.07 V	142	63.50	40.40
3	#5850.00	69.3 PK	95.9	-26.6	1.08 V	139	28.80	40.50
4	#5850.00	57.3 AV	83.9	-26.6	1.08 V	139	16.80	40.50
5	11650.00	58.5 PK	74.0	-15.5	1.00 V	89	6.00	52.50
6	11650.00	45.9 AV	54.0	-8.1	1.00 V	89	-6.60	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 151	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	#5725.00	83.4 PK	86.1	-2.7	1.07 H	186	43.30	40.10
2	#5725.00	70.6 AV	73.3	-2.7	1.07 H	186	30.50	40.10
3	*5755.00	106.1 PK			1.07 H	186	65.90	40.20
4	*5755.00	93.3 AV			1.07 H	186	53.10	40.20
5	11510.00	61.0 PK	74.0	-13.0	1.28 H	244	8.30	52.70
6	11510.00	47.0 AV	54.0	-7.0	1.28 H	244	-5.70	52.70
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	#5725.00	91.0 PK	93.7	-2.7	1.00 V	200	50.90	40.10
2	#5725.00	79.1 AV	81.8	-2.7	1.00 V	200	39.00	40.10
3	*5755.00	113.7 PK			1.00 V	200	73.50	40.20
4	*5755.00	101.8 AV			1.00 V	200	61.60	40.20
5	11510.00	61.2 PK	74.0	-12.8	1.14 V	215	8.50	52.70
6	11510.00	47.3 AV	54.0	-6.7	1.14 V	215	-5.40	52.70

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.
6. The limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 159	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Cedric Wu

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	*5795.00	106.0 PK			1.11 H	190	65.70	40.30
2	*5795.00	93.4 AV			1.11 H	190	53.10	40.30
3	#5850.00	70.0 PK	86.0	-16.0	1.11 H	190	29.50	40.50
4	#5850.00	57.4 AV	73.4	-16.0	1.11 H	190	16.90	40.50
5	11590.00	61.1 PK	74.0	-12.9	1.23 H	236	8.60	52.50
6	11590.00	47.1 AV	54.0	-6.9	1.23 H	236	-5.40	52.50
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	*5795.00	114.0 PK			1.00 V	200	73.70	40.30
2	*5795.00	102.0 AV			1.00 V	200	61.70	40.30
3	#5850.00	78.0 PK	94.0	-16.0	1.00 V	200	37.50	40.50
4	#5850.00	66.0 AV	82.0	-16.0	1.00 V	200	25.50	40.50
5	11590.00	61.2 PK	74.0	-12.8	1.32 V	60	8.70	52.50
6	11590.00	47.4 AV	54.0	-6.6	1.32 V	60	-5.10	52.50

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 limit value is defined as per 15.247.
7. "#":The radiated frequency is out the restricted band.

BELOW 1GHz WORST-CASE DATA：

TEST MODE A1

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Brad Tung

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	103.64	29.1 QP	43.5	-14.4	1.50 H	121	18.90	10.20
2	159.91	30.3 QP	43.5	-13.2	1.00 H	80	16.60	13.70
3	198.71	30.4 QP	43.5	-13.1	1.25 H	7	19.80	10.60
4	289.91	31.4 QP	46.0	-14.6	2.00 H	96	17.40	14.00
5	332.60	32.8 QP	46.0	-13.2	1.00 H	50	17.60	15.20
6	400.52	30.5 QP	46.0	-15.5	1.00 H	214	13.50	17.00
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	39.60	30.3 QP	40.0	-9.7	1.25 V	266	16.30	14.00
2	90.05	32.9 QP	43.5	-10.6	2.00 V	91	23.80	9.10
3	198.71	31.0 QP	43.5	-12.5	1.25 V	208	20.40	10.60
4	330.66	34.0 QP	46.0	-12.0	1.00 V	71	18.80	15.20
5	400.52	31.3 QP	46.0	-14.7	1.00 V	21	14.30	17.00
6	423.80	30.2 QP	46.0	-15.8	1.00 V	359	12.70	17.50

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

TEST MODE A2

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Brad Tung

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	103.64	31.5 QP	43.5	-12.0	1.25 H	88	21.30	10.20
2	157.97	30.2 QP	43.5	-13.3	1.00 H	254	16.50	13.70
3	198.71	31.4 QP	43.5	-12.1	1.50 H	27	20.80	10.60
4	299.62	31.7 QP	46.0	-14.3	1.50 H	102	17.40	14.30
5	334.54	34.2 QP	46.0	-11.8	1.00 H	268	18.90	15.30
6	425.74	32.5 QP	46.0	-13.5	1.00 H	6	15.00	17.50
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	51.24	29.7 QP	40.0	-10.3	1.50 V	135	16.20	13.50
2	107.52	32.3 QP	43.5	-11.2	1.00 V	216	21.70	10.60
3	198.71	31.2 QP	43.5	-12.3	1.00 V	170	20.60	10.60
4	332.60	33.3 QP	46.0	-12.7	1.25 V	99	18.10	15.20
5	423.80	39.4 QP	46.0	-6.6	1.00 V	105	21.90	17.50
6	466.49	28.1 QP	46.0	-17.9	1.00 V	308	9.70	18.40

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

TEST MODE B1

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Brad Tung

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	86.17	29.0 QP	40.0	-11.0	1.50 H	77	20.00	9.00
2	157.97	29.8 QP	43.5	-13.7	1.00 H	274	16.10	13.70
3	198.71	30.7 QP	43.5	-12.8	1.00 H	34	20.10	10.60
4	280.21	29.8 QP	46.0	-16.2	1.50 H	5	16.10	13.70
5	332.60	29.6 QP	46.0	-16.4	1.00 H	250	14.40	15.20
6	400.52	28.7 QP	46.0	-17.3	2.00 H	123	11.70	17.00
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	39.60	29.9 QP	40.0	-10.1	1.50 V	12	15.90	14.00
2	161.85	31.1 QP	43.5	-12.4	1.00 V	128	17.50	13.60
3	198.71	32.0 QP	43.5	-11.5	1.00 V	51	21.40	10.60
4	299.62	29.4 QP	46.0	-16.6	2.00 V	313	15.10	14.30
5	332.60	32.1 QP	46.0	-13.9	1.25 V	264	16.90	15.20
6	375.29	29.8 QP	46.0	-16.2	1.00 V	114	13.50	16.30

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

TEST MODE B2

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Brad Tung

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	80.35	29.1 QP	40.0	-10.9	1.25 H	321	20.20	8.90
2	161.85	29.8 QP	43.5	-13.7	1.00 H	124	16.20	13.60
3	198.71	31.5 QP	43.5	-12.0	1.50 H	36	20.90	10.60
4	249.17	30.1 QP	46.0	-15.9	1.50 H	91	17.40	12.70
5	332.60	32.7 QP	46.0	-13.3	1.00 H	256	17.50	15.20
6	375.29	29.7 QP	46.0	-16.3	1.00 H	117	13.40	16.30
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	39.60	29.9 QP	40.0	-10.1	1.00 V	196	15.90	14.00
2	64.83	29.0 QP	40.0	-11.0	2.00 V	164	16.90	12.10
3	198.71	31.4 QP	43.5	-12.1	1.00 V	174	20.80	10.60
4	332.60	27.9 QP	46.0	-18.1	1.50 V	101	12.70	15.20
5	375.29	28.2 QP	46.0	-17.8	2.00 V	30	11.90	16.30
6	466.49	28.1 QP	46.0	-17.9	1.00 V	94	9.70	18.40

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

TEST MODE C1

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Brad Tung

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	64.83	31.6 QP	40.0	-8.4	1.50 H	130	19.50	12.10
2	198.71	32.4 QP	43.5	-11.1	1.25 H	82	21.80	10.60
3	299.62	32.1 QP	46.0	-13.9	1.00 H	117	17.80	14.30
4	332.60	33.0 QP	46.0	-13.0	1.00 H	263	17.80	15.20
5	398.58	37.1 QP	46.0	-8.9	2.00 H	309	20.20	16.90
6	423.80	29.4 QP	46.0	-16.6	1.00 H	10	11.90	17.50
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	53.18	27.1 QP	40.0	-12.9	1.00 V	211	13.80	13.30
2	90.05	28.7 QP	43.5	-14.8	1.00 V	148	19.60	9.10
3	198.71	32.9 QP	43.5	-10.6	1.25 V	51	22.30	10.60
4	332.60	32.2 QP	46.0	-13.8	1.50 V	6	17.00	15.20
5	398.58	32.1 QP	46.0	-13.9	2.00 V	180	15.20	16.90
6	868.15	33.6 QP	46.0	-12.4	1.00 V	321	7.90	25.70

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

TEST MODE C2

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 149	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Brad Tung

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	64.83	31.7 QP	40.0	-8.3	2.00 H	134	19.60	12.10
2	95.87	30.7 QP	43.5	-12.8	1.25 H	10	21.20	9.50
3	198.71	31.7 QP	43.5	-11.8	1.00 H	88	21.10	10.60
4	299.62	36.7 QP	46.0	-9.3	1.00 H	131	22.40	14.30
5	332.60	34.1 QP	46.0	-11.9	1.50 H	20	18.90	15.20
6	425.74	35.7 QP	46.0	-10.3	1.00 H	91	18.20	17.50
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	53.18	25.9 QP	40.0	-14.1	1.25 V	176	12.60	13.30
2	90.05	29.4 QP	43.5	-14.1	2.00 V	332	20.30	9.10
3	198.71	30.7 QP	43.5	-12.8	1.00 V	219	20.10	10.60
4	332.60	30.2 QP	46.0	-15.8	1.00 V	5	15.00	15.20
5	400.52	36.2 QP	46.0	-9.8	1.25 V	122	19.20	17.00
6	425.74	31.2 QP	46.0	-14.8	1.00 V	29	13.70	17.50

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

5.2 CONDUCTED EMISSION MEASUREMENT

5.2.1 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.

5.2.2 T EST INSTRUMENTS

Same as item 4.2.2.

5.2.3 TEST PROCEDURES

Same as item 4.2.3.

5.2.4 DEVIATION FROM TEST STANDARD

No deviation.

5.2.5 TEST SETUP

Same as item 4.2.5.

5.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.

5.2.7 TEST RESULTS

TEST MODE A1

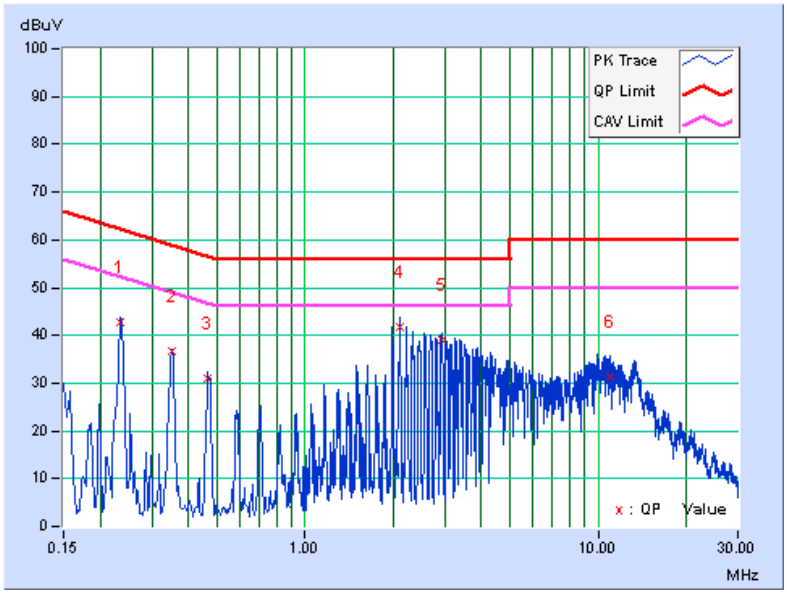
CONDUCTED WORST-CASE DATA：802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23412	0.16	42.52	35.93	42.68	36.09	62.30	52.30	-19.62	-16.21
2	0.35035	0.19	36.63	35.38	36.82	35.57	58.95	48.95	-22.14	-13.39
3	0.46600	0.20	30.74	27.82	30.94	28.02	56.58	46.58	-25.64	-18.56
4	2.11000	0.27	41.50	30.99	41.77	31.26	56.00	46.00	-14.23	-14.74
5	2.93000	0.32	38.89	30.15	39.21	30.47	56.00	46.00	-16.79	-15.53
6	11.05800	0.75	30.67	19.40	31.42	20.15	60.00	50.00	-28.58	-29.85

REMARKS:

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

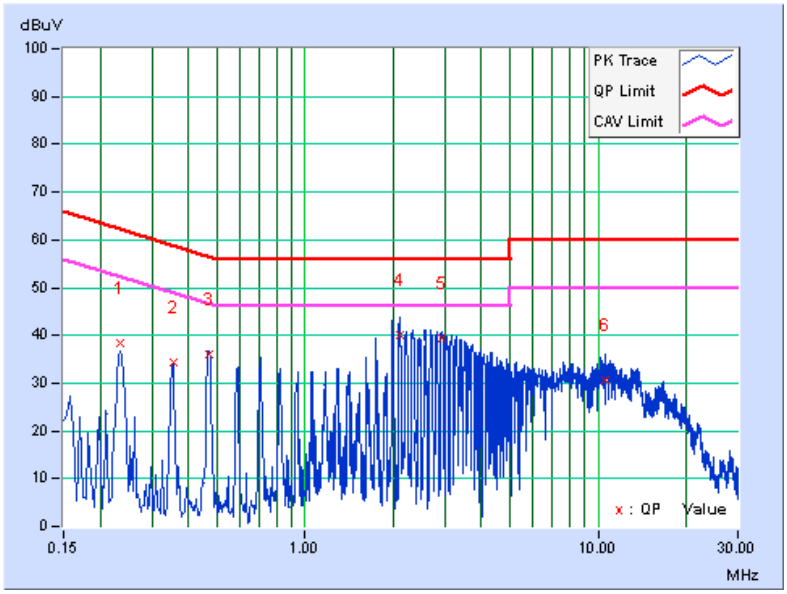


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23412	0.21	38.07	36.77	38.28	36.98	62.30	52.30	-24.02	-15.32
2	0.35407	0.25	34.13	32.26	34.38	32.51	58.87	48.87	-24.49	-16.36
3	0.47000	0.26	35.82	35.18	36.08	35.44	56.51	46.51	-20.43	-11.07
4	2.11800	0.32	39.85	28.08	40.17	28.40	56.00	46.00	-15.83	-17.60
5	2.94300	0.36	39.00	30.66	39.36	31.02	56.00	46.00	-16.64	-14.98
6	10.64200	0.65	30.08	19.03	30.73	19.68	60.00	50.00	-29.27	-30.32

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 A2

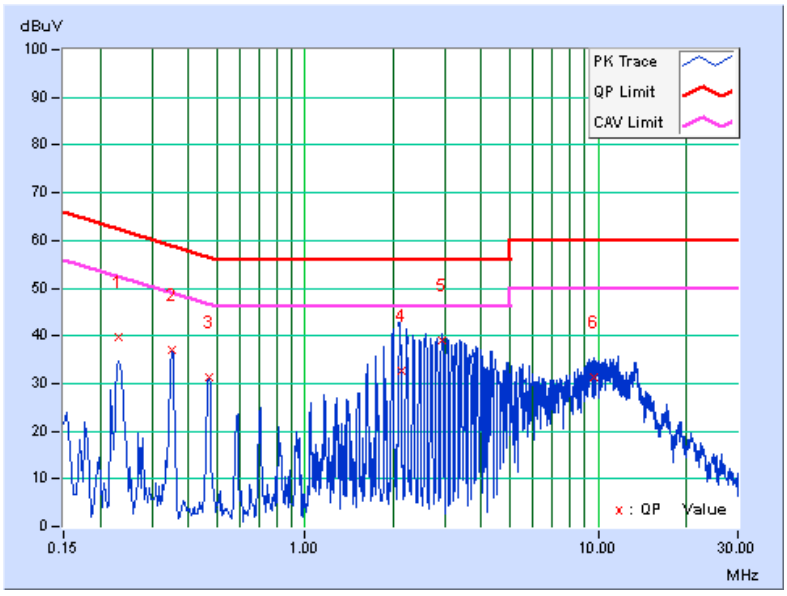
CONDUCTED WORST-CASE DATA：802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23060	0.16	39.67	31.30	39.83	31.46	62.43	52.43	-22.60	-20.97
2	0.35128	0.19	36.74	35.96	36.93	36.15	58.93	48.93	-22.00	-12.78
3	0.46936	0.20	31.26	30.52	31.46	30.72	56.53	46.53	-25.06	-15.80
4	2.12600	0.27	32.46	20.13	32.73	20.40	56.00	46.00	-23.27	-25.60
5	2.93400	0.32	38.66	30.27	38.98	30.59	56.00	46.00	-17.02	-15.41
6	9.67400	0.67	30.52	18.69	31.19	19.36	60.00	50.00	-28.81	-30.64

REMARKS:

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

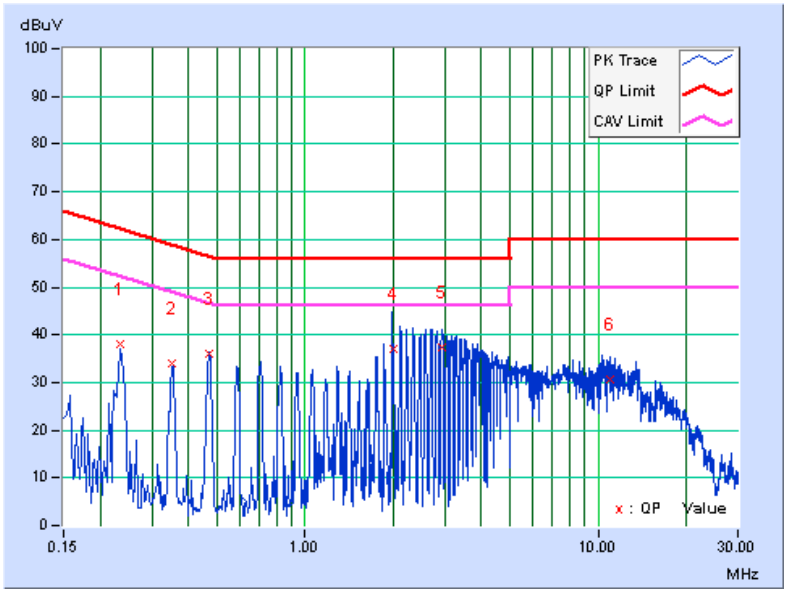


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23412	0.21	37.97	36.62	38.18	36.83	62.30	52.30	-24.12	-15.47
2	0.35035	0.25	33.64	31.60	33.89	31.85	58.95	48.95	-25.07	-17.11
3	0.47060	0.26	35.81	35.18	36.07	35.44	56.50	46.50	-20.43	-11.06
4	1.99900	0.31	36.59	26.47	36.90	26.78	56.00	46.00	-19.10	-19.22
5	2.91800	0.36	37.07	20.30	37.43	20.66	56.00	46.00	-18.57	-25.34
6	10.95000	0.66	30.06	18.85	30.72	19.51	60.00	50.00	-29.28	-30.49

REMARKS:

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



TEST MODE B1

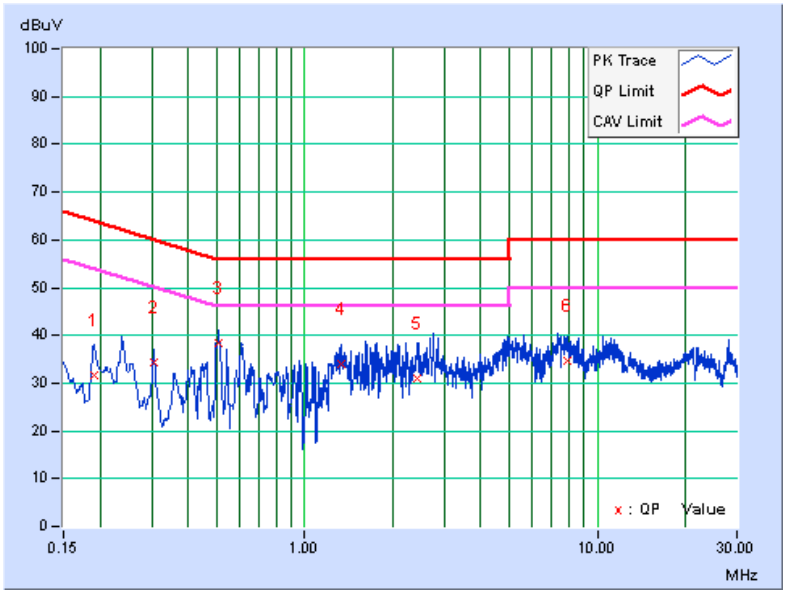
CONDUCTED WORST-CASE DATA：802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19013	0.16	31.35	25.75	31.51	25.91	64.03	54.03	-32.52	-28.12
2	0.30389	0.20	34.15	31.07	34.35	31.27	60.14	50.14	-25.79	-18.87
3	0.50530	0.23	38.16	34.99	38.39	35.22	56.00	46.00	-17.61	-10.78
4	1.32600	0.26	33.58	28.01	33.84	28.27	56.00	46.00	-22.16	-17.73
5	2.41018	0.31	30.68	24.14	30.99	24.45	56.00	46.00	-25.01	-21.55
6	7.86200	0.61	34.15	27.30	34.76	27.91	60.00	50.00	-25.24	-22.09

REMARKS:

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

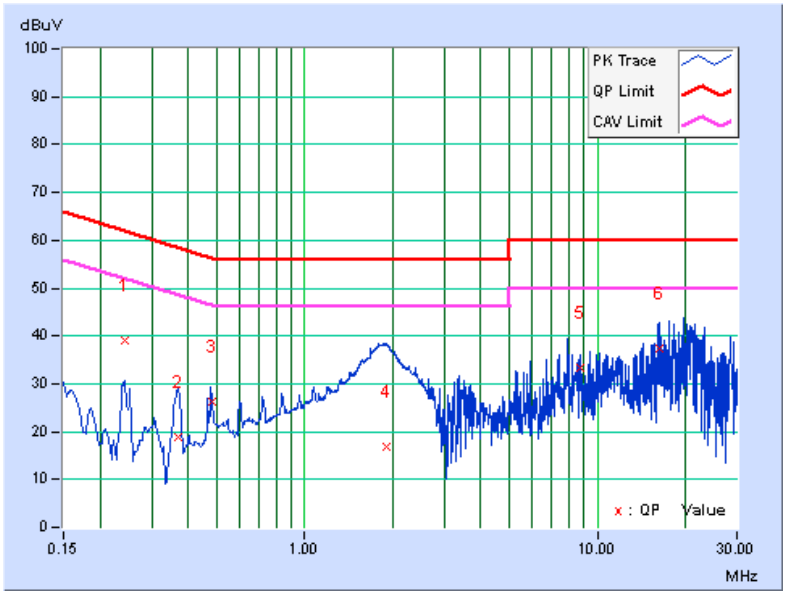


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.24184	0.18	39.02	31.18	39.20	31.36	62.03	52.03	-22.83	-20.67
2	0.36854	0.23	18.54	13.60	18.77	13.83	58.53	48.53	-39.76	-34.70
3	0.48240	0.24	25.99	23.86	26.23	24.10	56.30	46.30	-30.07	-22.20
4	1.89400	0.28	16.70	10.48	16.98	10.76	56.00	46.00	-39.02	-35.24
5	8.71790	0.55	32.94	30.29	33.49	30.84	60.00	50.00	-26.51	-19.16
6	16.23056	0.80	36.42	34.39	37.22	35.19	60.00	50.00	-22.78	-14.81

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 B2

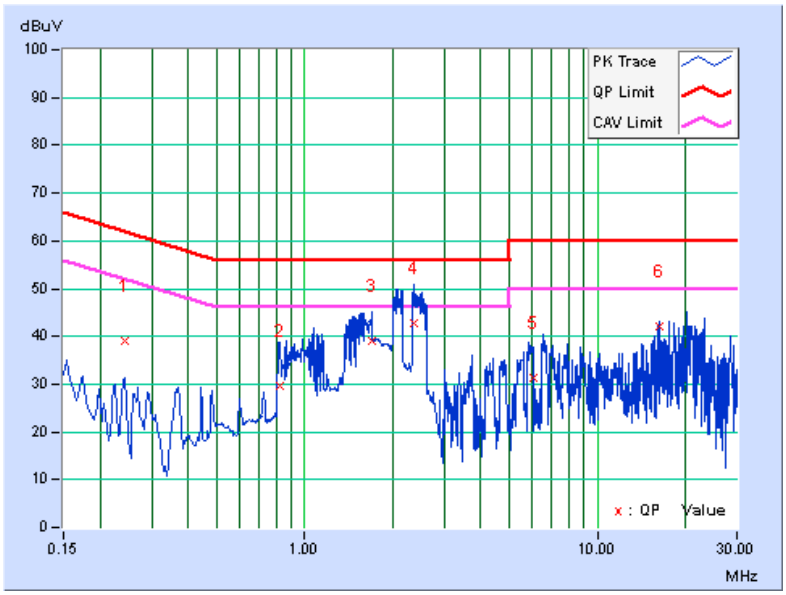
CONDUCTED WORST-CASE DATA：802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.24164	0.17	38.92	30.65	39.09	30.82	62.04	52.04	-22.95	-21.22
2	0.82050	0.24	29.25	19.24	29.49	19.48	56.00	46.00	-26.51	-26.52
3	1.68883	0.28	38.85	31.54	39.13	31.82	56.00	46.00	-16.87	-14.18
4	2.35370	0.31	42.30	32.49	42.61	32.80	56.00	46.00	-13.39	-13.20
5	6.02200	0.51	30.69	20.79	31.20	21.30	60.00	50.00	-28.80	-28.70
6	16.22600	1.03	41.12	38.44	42.15	39.47	60.00	50.00	-17.85	-10.53

REMARKS:

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

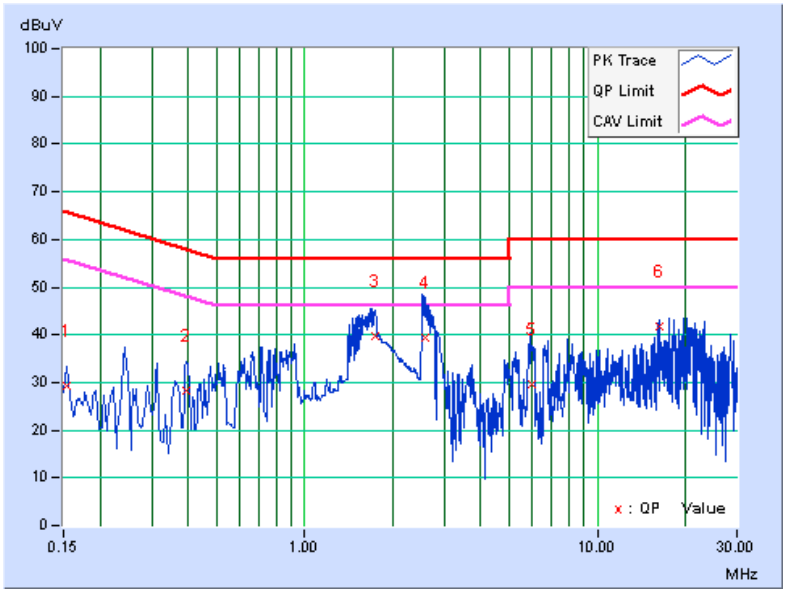


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15434	0.17	29.18	22.66	29.35	22.83	65.76	55.76	-36.42	-32.94
2	0.39278	0.24	27.97	19.34	28.21	19.58	58.00	48.00	-29.80	-28.43
3	1.73844	0.27	39.43	31.13	39.70	31.40	56.00	46.00	-16.30	-14.60
4	2.57427	0.31	39.16	27.05	39.47	27.36	56.00	46.00	-16.53	-18.64
5	5.93800	0.45	29.33	17.93	29.78	18.38	60.00	50.00	-30.22	-31.62
6	16.22688	0.80	40.85	38.18	41.65	38.98	60.00	50.00	-18.35	-11.02

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



TEST MODE C1

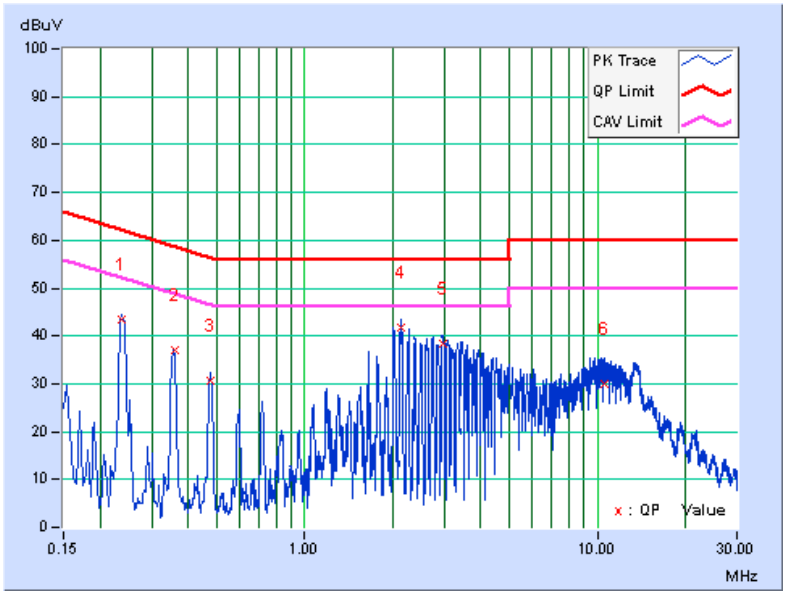
CONDUCTED WORST-CASE DATA：802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23785	0.16	43.11	35.93	43.27	36.09	62.17	52.17	-18.90	-16.08
2	0.35876	0.19	36.99	35.53	37.18	35.72	58.76	48.76	-21.58	-13.04
3	0.47800	0.20	30.56	29.72	30.76	29.92	56.37	46.37	-25.61	-16.45
4	2.14600	0.27	41.54	29.72	41.81	29.99	56.00	46.00	-14.19	-16.01
5	2.96600	0.32	38.10	27.87	38.42	28.19	56.00	46.00	-17.58	-17.81
6	10.54200	0.72	29.30	18.06	30.02	18.78	60.00	50.00	-29.98	-31.22

REMARKS:

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

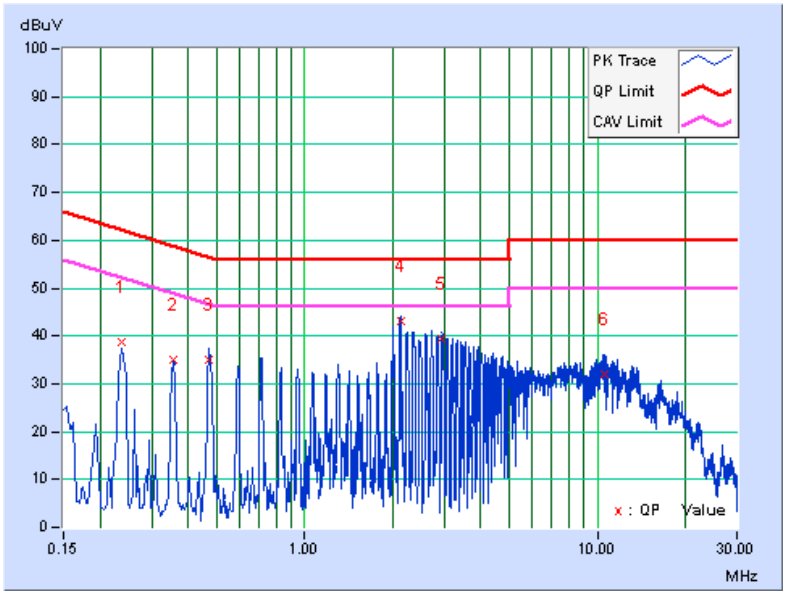


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23800	0.21	38.54	36.95	38.75	37.16	62.17	52.17	-23.41	-15.00
2	0.35782	0.25	34.64	32.31	34.89	32.56	58.78	48.78	-23.89	-16.22
3	0.47000	0.26	34.84	31.18	35.10	31.44	56.51	46.51	-21.41	-15.07
4	2.12600	0.32	42.65	30.94	42.97	31.26	56.00	46.00	-13.03	-14.74
5	2.95000	0.36	38.93	28.54	39.29	28.90	56.00	46.00	-16.71	-17.10
6	10.55400	0.65	31.49	20.55	32.14	21.20	60.00	50.00	-27.86	-28.80

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 C2

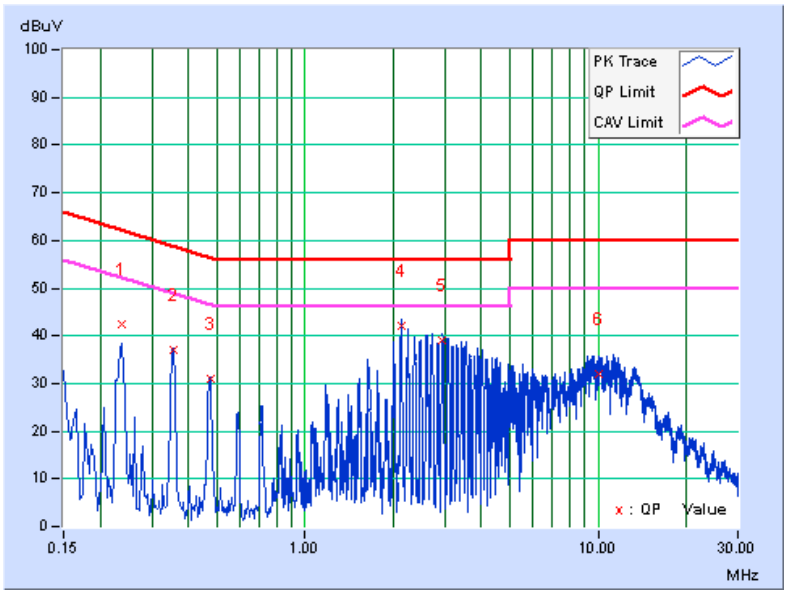
CONDUCTED WORST-CASE DATA：802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23785	0.16	42.41	35.33	42.57	35.49	62.17	52.17	-19.60	-16.68
2	0.35407	0.19	36.87	36.21	37.06	36.40	58.87	48.87	-21.81	-12.47
3	0.47400	0.20	30.62	29.89	30.82	30.09	56.44	46.44	-25.62	-16.35
4	2.12600	0.27	41.78	31.49	42.05	31.76	56.00	46.00	-13.95	-14.24
5	2.95000	0.32	38.78	30.38	39.10	30.70	56.00	46.00	-16.90	-15.30
6	10.01400	0.69	31.19	19.89	31.88	20.58	60.00	50.00	-28.12	-29.42

REMARKS:

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

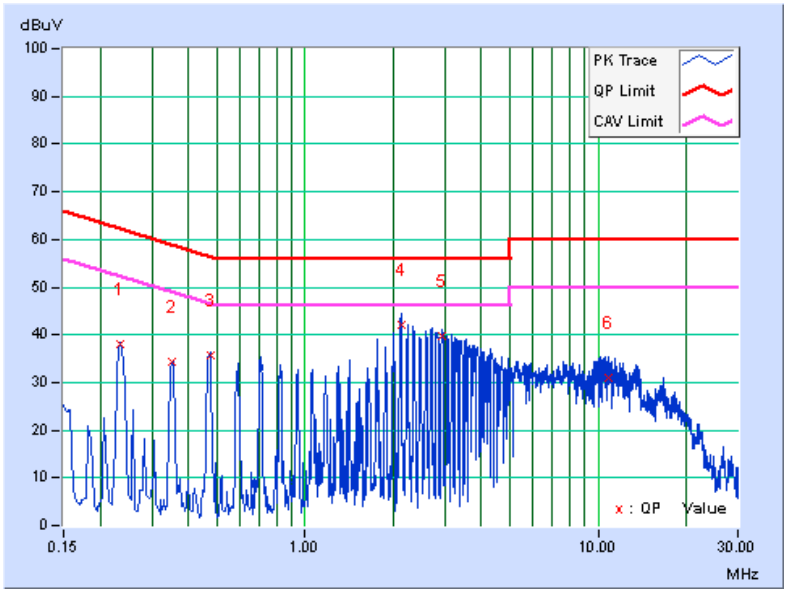


PHASE	Line 2	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23412	0.21	37.80	36.13	38.01	36.34	62.30	52.30	-24.29	-15.96
2	0.35220	0.25	34.09	32.59	34.34	32.84	58.91	48.91	-24.57	-16.07
3	0.47400	0.26	35.28	33.91	35.54	34.17	56.44	46.44	-20.90	-12.27
4	2.12200	0.32	41.78	30.99	42.10	31.31	56.00	46.00	-13.90	-14.69
5	2.94500	0.36	39.33	31.01	39.69	31.37	56.00	46.00	-16.31	-14.63
6	10.79400	0.66	30.48	19.17	31.14	19.83	60.00	50.00	-28.86	-30.17

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



5.3 6dB BANDWIDTH MEASUREMENT

5.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

5.3.2 TEST SETUP

Same as item 4.3.2.

5.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.3.4 TEST PROCEDURE

Same as item 4.3.4.

5.3.5 DEVIATION FROM TEST STANDARD

No deviation.

5.3.6 EUT OPERATING CONDITIONS

Same as item 4.3.6.

5.3.7 TEST RESULTS

TEST MODE A1

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.45	16.45	0.5	PASS
157	5785	16.40	16.41	0.5	PASS
165	5825	16.44	16.45	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.22	17.62	0.5	PASS
157	5785	17.63	17.37	0.5	PASS
165	5825	17.63	17.62	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.20	36.36	0.5	PASS
159	5795	36.08	36.14	0.5	PASS

TEST MODE A2

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.43	16.44	0.5	PASS
157	5785	16.41	16.42	0.5	PASS
165	5825	16.46	16.44	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.70	17.71	0.5	PASS
157	5785	17.68	17.75	0.5	PASS
165	5825	17.68	17.72	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.23	36.41	0.5	PASS
159	5795	36.23	36.18	0.5	PASS

TEST MODE B1

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.45	16.46	0.5	PASS
157	5785	16.41	16.42	0.5	PASS
165	5825	16.44	16.45	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.62	17.63	0.5	PASS
157	5785	17.63	17.63	0.5	PASS
165	5825	17.58	17.61	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.37	36.45	0.5	PASS
159	5795	35.90	35.81	0.5	PASS

TEST MODE B2

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.44	16.45	0.5	PASS
157	5785	16.41	16.43	0.5	PASS
165	5825	16.45	16.46	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.64	16.39	0.5	PASS
157	5785	17.62	16.40	0.5	PASS
165	5825	17.64	16.40	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.45	36.45	0.5	PASS
159	5795	36.46	35.80	0.5	PASS

TEST MODE C1

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.46	16.45	0.5	PASS
157	5785	16.40	16.41	0.5	PASS
165	5825	16.45	16.46	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.62	17.63	0.5	PASS
157	5785	17.63	17.63	0.5	PASS
165	5825	17.58	17.61	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.37	36.45	0.5	PASS
159	5795	35.90	35.81	0.5	PASS

TEST MODE C2

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.47	16.42	0.5	PASS
157	5785	16.42	16.42	0.5	PASS
165	5825	16.45	16.45	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.64	16.39	0.5	PASS
157	5785	17.62	16.40	0.5	PASS
165	5825	17.64	16.40	0.5	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.45	36.45	0.5	PASS
159	5795	36.46	35.80	0.5	PASS

5.4 CONDUCTED OUTPUT POWER

5.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 5725 –5850 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output v02 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 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 ≥ 5.

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

5.4.2 TEST SETUP

Same as Item 4.4.2.

5.4.3 INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.4.4 TEST PROCEDURES

Same as Item 4.4.4.

5.4.5 DEVIATION FROM TEST STANDARD

No deviation.

5.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

5.4.7 TEST RESULTS

TEST MODE A1

FOR PEAK POWER

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	23.20	23.91	454.967	26.58	27.2	PASS
157	5785	24.02	24.23	517.198	27.14	27.2	PASS
165	5825	24.22	23.88	508.584	27.06	27.2	PASS

Note: Directional gain =8.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8.8-6) = 27.2dBm

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	24.10	24.26	**523.726**	27.19	27.2	PASS
157	5785	24.03	24.21	516.563	27.13	27.2	PASS
165	5825	24.04	24.23	518.363	27.15	27.2	PASS

Note: Directional gain =8.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8.8-6) = 27.2dBm

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
151	5755	24.13	24.19	521.243	27.17	27.2	PASS
159	5795	24.02	24.26	519.034	27.15	27.2	PASS

Note: Directional gain =8.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8.8-6) = 27.2dBm

FOR AVERAGE POWER

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	21.07	20.02	228.400	23.59
157	5785	20.12	20.38	211.946	23.26
165	5825	19.61	20.42	201.565	23.04

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	21.09	21.26	262.189	24.19
157	5785	20.74	20.61	233.657	23.69
165	5825	20.59	19.83	210.712	23.24

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
151	5755	20.75	20.71	236.611	23.74
159	5795	20.27	20.02	206.876	23.16

TEST MODE A2

FOR PEAK POWER

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	23.00	25.02	517.213	27.14	27.2	PASS
157	5785	23.30	24.84	518.585	27.15	27.2	PASS
165	5825	23.18	24.48	488.513	26.89	27.2	PASS

Note: Directional gain =8.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8.8-6) = 27.2dBm

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	23.68	24.36	506.244	27.04	27.2	PASS
157	5785	23.29	24.18	475.122	26.77	27.2	PASS
165	5825	23.02	24.03	453.377	26.56	27.2	PASS

Note: Directional gain =8.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8.8-6) = 27.2dBm

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
151	5755	23.79	24.53	523.124	27.19	27.2	PASS
159	5795	23.61	24.50	511.453	27.09	27.2	PASS

Note: Directional gain =8.8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8.8-6) = 27.2dBm

FOR AVERAGE POWER

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	19.86	20.73	215.132	23.33
157	5785	19.19	20.27	189.399	22.77
165	5825	18.21	19.11	147.692	21.69

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	20.16	20.14	207.029	23.16
157	5785	19.40	20.05	188.254	22.75
165	5825	18.78	18.91	153.313	21.86

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
151	5755	20.05	20.03	201.851	23.05
159	5795	19.31	19.48	174.026	22.41

TEST MODE B1

FOR PEAK POWER

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	25.76	24.94	688.593	28.38	30	PASS
157	5785	25.36	24.81	646.249	28.10	30	PASS
165	5825	24.93	24.70	606.293	27.83	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				
149	5745	25.43	26.19	**765.051**	28.84	30	PASS
157	5785	25.33	25.89	729.343	28.63	30	PASS
165	5825	25.31	25.52	696.076	28.43	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				
151	5755	25.33	26.03	742.060	28.70	30	PASS
159	5795	25.20	25.67	700.109	28.45	30	PASS

FOR AVERAGE POWER

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	21.06	18.89	205.090	23.12
157	5785	20.35	18.60	180.837	22.57
165	5825	19.12	18.74	156.475	21.94

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	22.09	22.26	330.075	25.19
157	5785	21.74	21.61	294.156	24.69
165	5825	21.59	20.83	265.272	24.24

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
151	5755	21.75	21.71	297.876	24.74
159	5795	21.27	21.02	260.442	24.16

TEST MODE B2

FOR PEAK POWER

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	24.85	25.81	686.558	28.37	30	PASS
157	5785	24.32	25.28	607.683	27.84	30	PASS
165	5825	24.07	25.23	588.696	27.70	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				
149	5745	25.18	25.86	715.088	28.54	30	PASS
157	5785	24.79	25.68	671.129	28.27	30	PASS
165	5825	24.52	25.43	632.279	28.01	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				
151	5755	24.99	25.63	681.095	28.33	30	PASS
159	5795	24.61	25.50	643.881	28.09	30	PASS

FOR AVERAGE POWER

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	19.05	19.60	171.554	22.34
157	5785	17.99	18.62	135.729	21.33
165	5825	17.31	18.12	118.690	20.74

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	21.66	21.64	292.436	24.66
157	5785	20.90	21.15	253.344	24.04
165	5825	20.28	20.41	216.561	23.36

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
151	5755	21.05	21.03	254.115	24.05
159	5795	20.31	20.48	219.085	23.41

TEST MODE C1

FOR PEAK POWER

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	25.76	24.90	685.734	28.36	30	PASS
157	5785	25.36	24.81	646.249	28.10	30	PASS
165	5825	24.93	24.70	606.293	27.83	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				
149	5745	25.43	26.19	**765.051**	28.84	30	PASS
157	5785	25.33	25.89	729.343	28.63	30	PASS
165	5825	25.31	25.52	696.076	28.43	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				
151	5755	25.33	26.03	742.060	28.70	30	PASS
159	5795	25.20	25.67	700.109	28.45	30	PASS

FOR AVERAGE POWER

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	21.06	18.89	205.090	23.12
157	5785	20.35	18.60	180.837	22.57
165	5825	19.12	18.74	156.475	21.94

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	22.09	22.26	330.075	25.19
157	5785	21.74	21.61	294.156	24.69
165	5825	21.59	20.83	265.272	24.24

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
151	5755	21.75	21.71	297.876	24.74
159	5795	21.27	21.02	260.442	24.16

TEST MODE C2

FOR PEAK POWER

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	24.85	25.81	686.558	28.37	30	PASS
157	5785	24.32	25.28	607.683	27.84	30	PASS
165	5825	24.07	25.23	588.696	27.70	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				
149	5745	25.18	25.86	715.088	28.54	30	PASS
157	5785	24.79	25.68	671.129	28.27	30	PASS
165	5825	24.52	25.43	632.279	28.01	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				
151	5755	24.99	25.63	681.095	28.33	30	PASS
159	5795	24.61	25.50	643.881	28.09	30	PASS

FOR AVERAGE POWER

802.11a

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	19.05	19.60	171.554	22.34
157	5785	17.99	18.62	135.729	21.33
165	5825	17.31	18.12	118.690	20.74

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
149	5745	21.66	21.64	292.436	24.66
157	5785	20.90	21.15	253.344	24.04
165	5825	20.28	20.41	216.561	23.36

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	AVG. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1		
151	5755	21.05	21.03	254.115	24.05
159	5795	20.31	20.48	219.085	23.41

5.5 POWER SPECTRAL DENSITY MEASUREMENT

5.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.5.2 TEST SETUP

Same as item 4.5.2.

5.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.5.4 TEST PROCEDURE.

Same as item 4.5.4.

5.5.5 DEVIATION FROM TEST STANDARD

No deviation.

5.5.6 EUT OPERATING CONDITION

Same as item 4.3.6.

5.5.7 TEST RESULTS

TEST MODE A1

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-1.33	3.01	1.68	2.19	PASS
	157	5785	-4.92	3.01	-1.91	2.19	PASS
	165	5825	-1.20	3.01	1.81	2.19	PASS
1	149	5745	-3.30	3.01	-0.29	2.19	PASS
	157	5785	-4.42	3.01	-1.41	2.19	PASS
	165	5825	-2.06	3.01	0.95	2.19	PASS

NOTE: Directional gain = 8.8dBi + 10log(2) = 11.81dBi > 6dBi , so the power density limit shall be reduced to 8-(11.81-6) = 2.19dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-3.90	3.01	-0.89	2.19	PASS
	157	5785	-5.70	3.01	-2.69	2.19	PASS
	165	5825	-5.65	3.01	-2.64	2.19	PASS
1	149	5745	-1.74	3.01	1.27	2.19	PASS
	157	5785	-3.78	3.01	-0.77	2.19	PASS
	165	5825	-2.05	3.01	0.96	2.19	PASS

NOTE: Directional gain = 8.8dBi + 10log(2) = 11.81dBi > 6dBi , so the power density limit shall be reduced to 8-(11.81-6) = 2.19dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-8.02	3.01	-5.01	2.19	PASS
	159	5795	-7.85	3.01	-4.84	2.19	PASS
1	151	5755	-1.74	3.01	1.27	2.19	PASS
	159	5795	-5.40	3.01	-2.39	2.19	PASS

NOTE: Directional gain = 8.8dBi + 10log(2) = 11.81dBi > 6dBi , so the power density limit shall be reduced to 8-(11.81-6) = 2.19dBm.

TEST MODE A2

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-0.89	3.01	2.12	2.19	PASS
	157	5785	-2.07	3.01	0.94	2.19	PASS
	165	5825	-6.39	3.01	-3.38	2.19	PASS
1	149	5745	-5.20	3.01	-2.19	2.19	PASS
	157	5785	-2.36	3.01	0.65	2.19	PASS
	165	5825	-6.25	3.01	-3.24	2.19	PASS

NOTE: Directional gain = 8.8dBi + 10log(2) = 11.81dBi > 6dBi , so the power density limit shall be reduced to 8-(11.81-6) = 2.19dBm.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-5.51	3.01	-2.50	2.19	PASS
	157	5785	-5.37	3.01	-2.36	2.19	PASS
	165	5825	-4.10	3.01	-1.09	2.19	PASS
1	149	5745	-3.63	3.01	-0.62	2.19	PASS
	157	5785	-6.42	3.01	-3.41	2.19	PASS
	165	5825	-1.54	3.01	1.47	2.19	PASS

NOTE: Directional gain = 8.8dBi + 10log(2) = 11.81dBi > 6dBi , so the power density limit shall be reduced to 8-(11.81-6) = 2.19dBm.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-4.37	3.01	-1.36	2.19	PASS
	159	5795	-7.36	3.01	-4.35	2.19	PASS
1	151	5755	-8.02	3.01	-5.01	2.19	PASS
	159	5795	-9.45	3.01	-6.44	2.19	PASS

NOTE: Directional gain = 8.8dBi + 10log(2) = 11.81dBi > 6dBi , so the power density limit shall be reduced to 8-(11.81-6) = 2.19dBm.

TEST MODE B1

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-2.53	3.01	0.48	8	PASS
	157	5785	-5.53	3.01	-2.52	8	PASS
	165	5825	-4.54	3.01	-1.53	8	PASS
1	149	5745	-5.71	3.01	-2.70	8	PASS
	157	5785	-5.19	3.01	-2.18	8	PASS
	165	5825	-5.60	3.01	-2.59	8	PASS

NOTE: Directional gain = 2.8dBi + 10log(2) = 5.81dBi < 6dBi, so the limit no need to reduced.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-4.59	3.01	-1.58	8	PASS
	157	5785	-4.06	3.01	-1.05	8	PASS
	165	5825	-6.29	3.01	-3.28	8	PASS
1	149	5745	-3.49	3.01	-0.48	8	PASS
	157	5785	-4.53	3.01	-1.52	8	PASS
	165	5825	-5.05	3.01	-2.04	8	PASS

NOTE: Directional gain = 2.8dBi + 10log(2) = 5.81dBi < 6dBi, so the limit no need to reduced.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-7.48	3.01	-4.47	8	PASS
	159	5795	-7.84	3.01	-4.83	8	PASS
1	151	5755	-8.03	3.01	-5.02	8	PASS
	159	5795	0.63	3.01	3.64	8	PASS

NOTE: Directional gain = 2.8dBi + 10log(2) = 5.81dBi < 6dBi, so the limit no need to reduced.

TEST MODE B2

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-5.44	3.01	-2.43	8	PASS
	157	5785	-6.59	3.01	-3.58	8	PASS
	165	5825	-6.56	3.01	-3.55	8	PASS
1	149	5745	-6.02	3.01	-3.01	8	PASS
	157	5785	-7.20	3.01	-4.19	8	PASS
	165	5825	-7.71	3.01	-4.70	8	PASS

NOTE: Directional gain = 2.8dBi + 10log(2) = 5.81dBi < 6dBi, so the limit no need to reduced.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-3.76	3.01	-0.75	8	PASS
	157	5785	-3.59	3.01	-0.58	8	PASS
	165	5825	-5.47	3.01	-2.46	8	PASS
1	149	5745	-3.82	3.01	-0.81	8	PASS
	157	5785	-4.00	3.01	-0.99	8	PASS
	165	5825	-5.29	3.01	-2.28	8	PASS

NOTE: Directional gain = 2.8dBi + 10log(2) = 5.81dBi < 6dBi, so the limit no need to reduced.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-7.84	3.01	-4.83	8	PASS
	159	5795	-7.34	3.01	-4.33	8	PASS
1	151	5755	-5.20	3.01	-2.19	8	PASS
	159	5795	-7.46	3.01	-4.45	8	PASS

NOTE: Directional gain = 2.8dBi + 10log(2) = 5.81dBi < 6dBi, so the limit no need to reduced.

TEST MODE C1

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-2.51	3.01	0.50	8	PASS
	157	5785	-3.40	3.01	-0.39	8	PASS
	165	5825	-2.81	3.01	0.20	8	PASS
1	149	5745	-4.39	3.01	-1.38	8	PASS
	157	5785	-4.91	3.01	-1.90	8	PASS
	165	5825	-6.55	3.01	-3.54	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-4.59	3.01	-1.58	8	PASS
	157	5785	-4.06	3.01	-1.05	8	PASS
	165	5825	-6.29	3.01	-3.28	8	PASS
1	149	5745	-3.49	3.01	-0.48	8	PASS
	157	5785	-4.53	3.01	-1.52	8	PASS
	165	5825	-5.05	3.01	-2.04	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-7.48	3.01	-4.47	8	PASS
	159	5795	-7.84	3.01	-4.83	8	PASS
1	151	5755	-8.03	3.01	-5.02	8	PASS
	159	5795	0.63	3.01	3.64	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

TEST MODE C2

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-5.95	3.01	-2.94	8	PASS
	157	5785	-6.61	3.01	-3.60	8	PASS
	165	5825	-7.81	3.01	-4.80	8	PASS
1	149	5745	-6.28	3.01	-3.27	8	PASS
	157	5785	-2.80	3.01	0.21	8	PASS
	165	5825	-5.74	3.01	-2.73	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	149	5745	-3.76	3.01	-0.75	8	PASS
	157	5785	-3.59	3.01	-0.58	8	PASS
	165	5825	-5.47	3.01	-2.46	8	PASS
1	149	5745	-3.82	3.01	-0.81	8	PASS
	157	5785	-4.00	3.01	-0.99	8	PASS
	165	5825	-5.29	3.01	-2.28	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	151	5755	-7.84	3.01	-4.83	8	PASS
	159	5795	-7.34	3.01	-4.33	8	PASS
1	151	5755	-5.20	3.01	-2.19	8	PASS
	159	5795	-7.46	3.01	-4.45	8	PASS

NOTE: Directional gain = 1.7dBi + 10log(2) = 4.71dBi < 6dBi, so the limit no need to reduced.

5.6 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

5.6.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

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

5.6.2 TEST SETUP

Same as Item 4.6.2

5.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.6.4 TEST PROCEDURE

Same as Item 4.6.4

5.6.5 DEVIATION FROM TEST STANDARD

No deviation.

5.6.6 EUT OPERATING CONDITION

Same as Item 4.3.6

5.6.7 TEST RESULTS

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

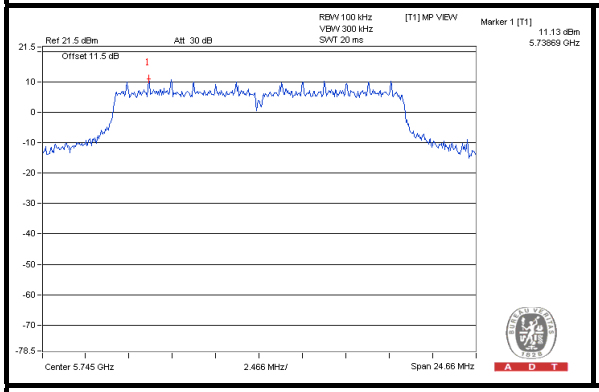
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

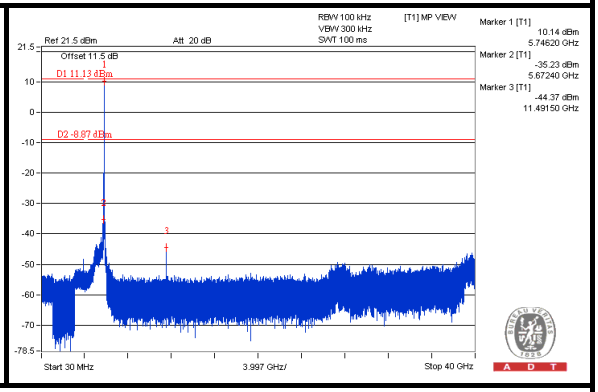
TEST MODE A1

802.11a

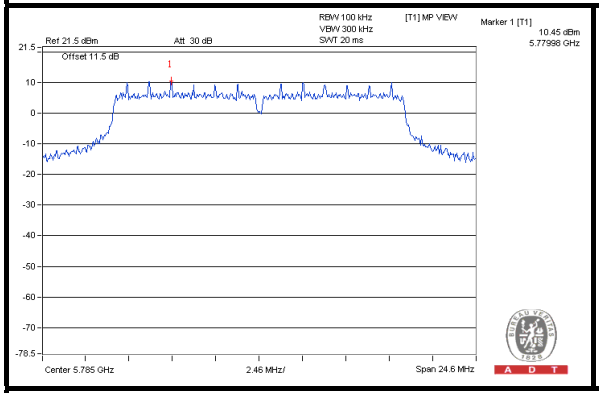
CHAIN 0

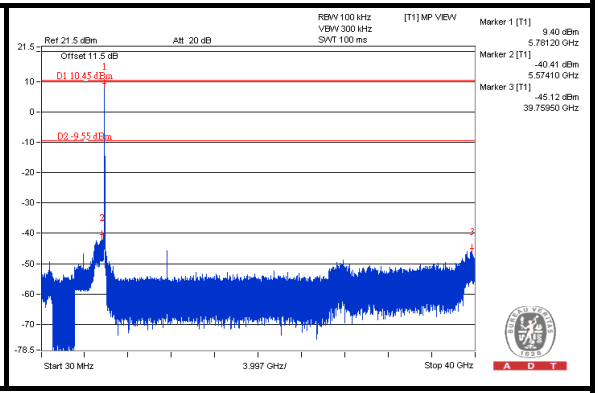
CH 149



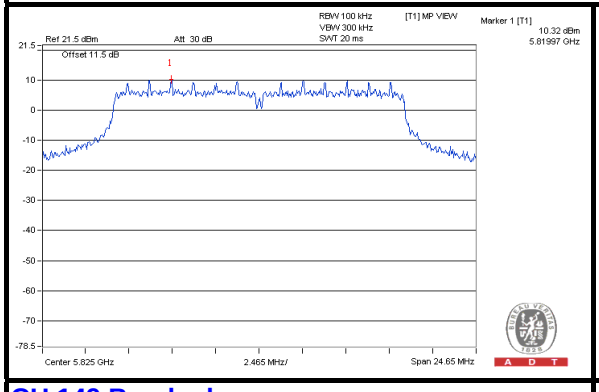


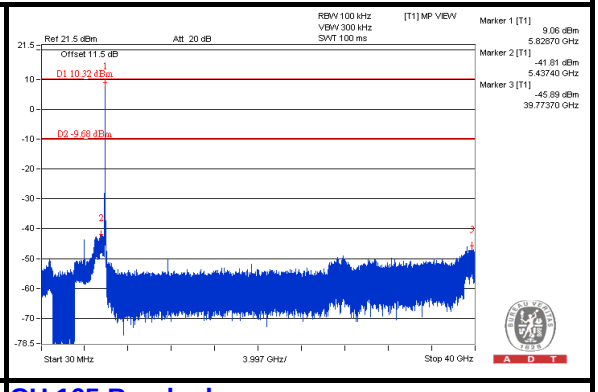
CH 157



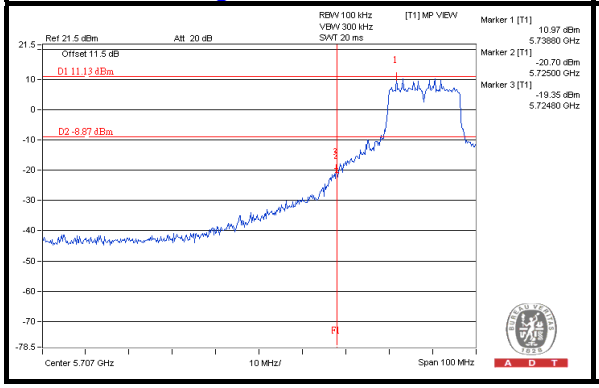


CH 165

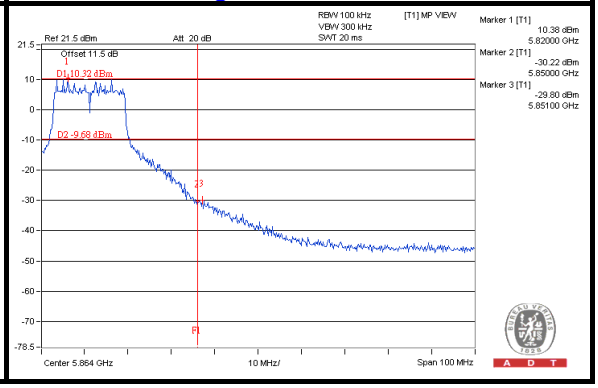




CH 149 Band edge

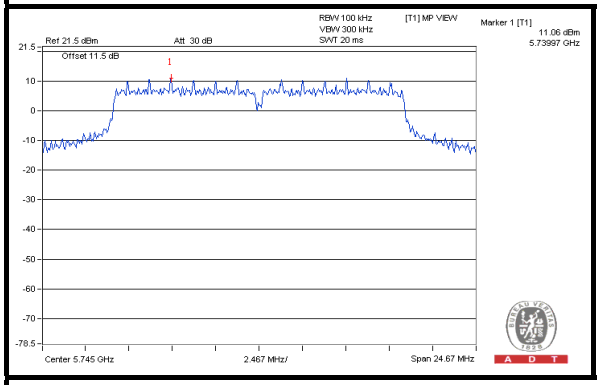


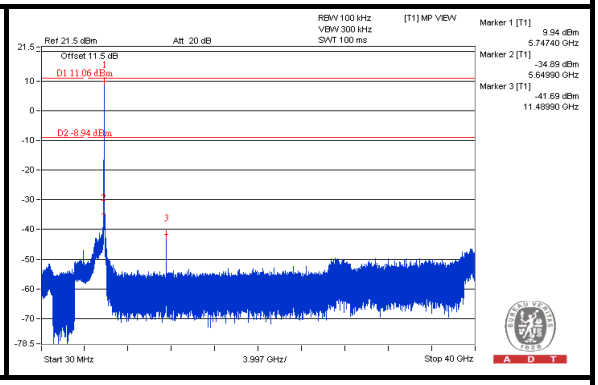
CH 165 Band edge



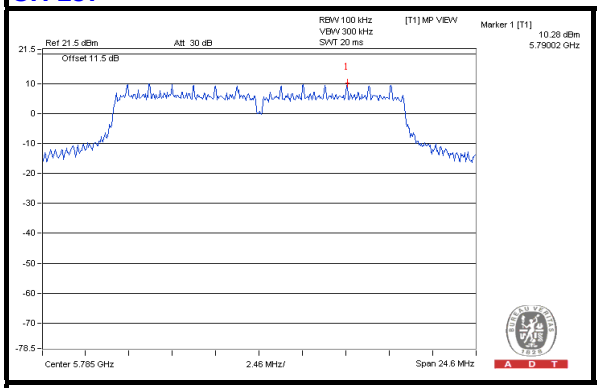
CHAIN 1

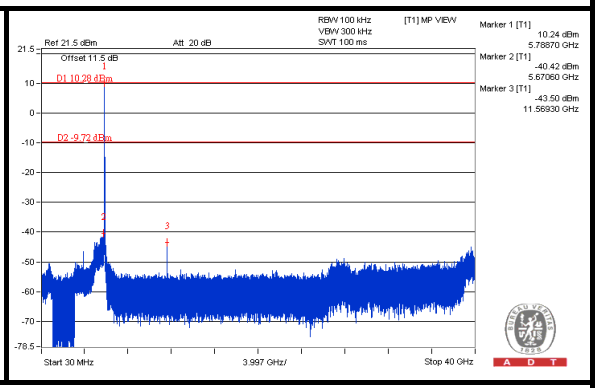
CH 149



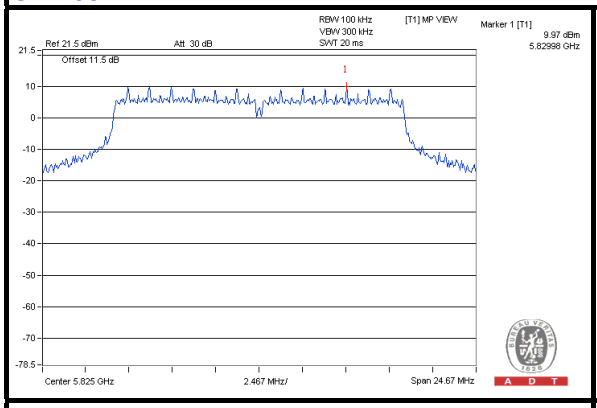


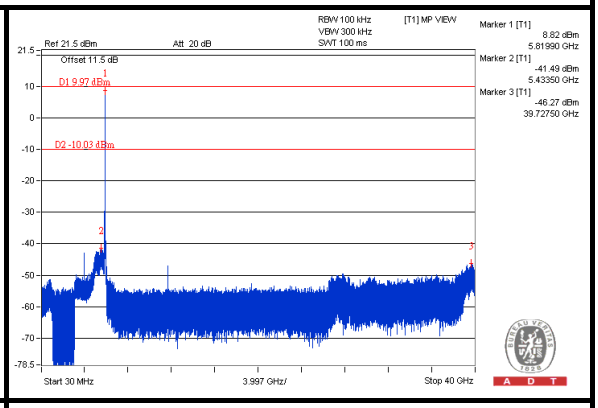
CH 157



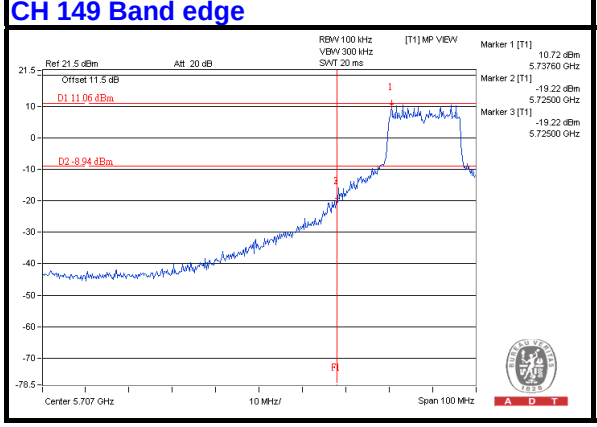


CH 165

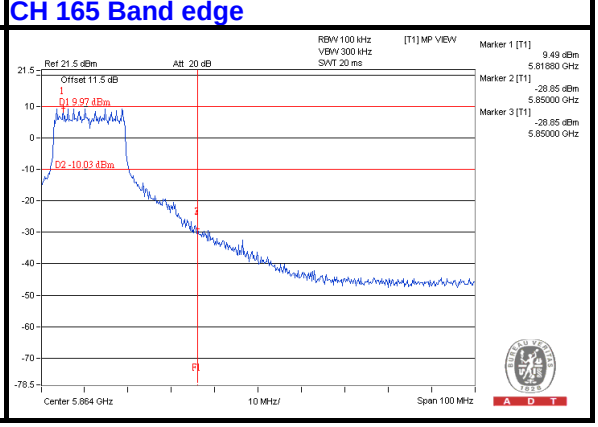




CH 149 Band edge

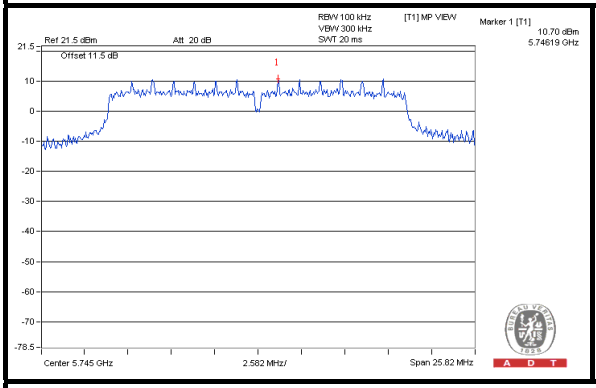


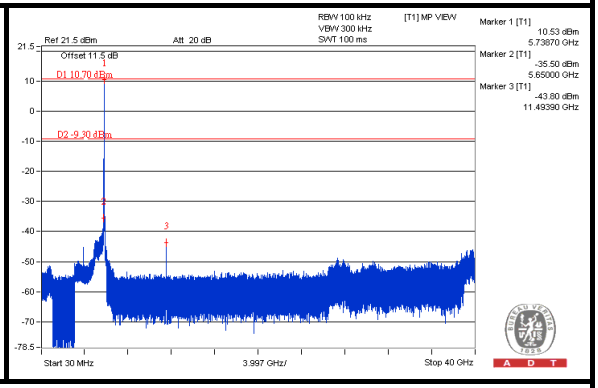
CH 165 Band edge



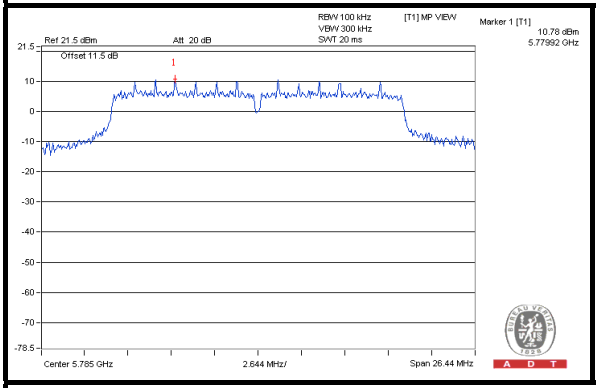
802.11n (20MHz)
CHAIN 0

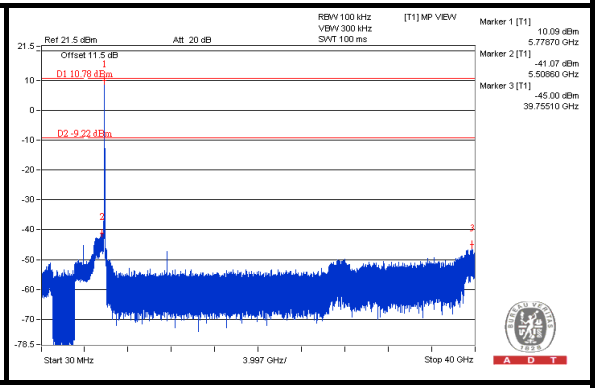
CH 149



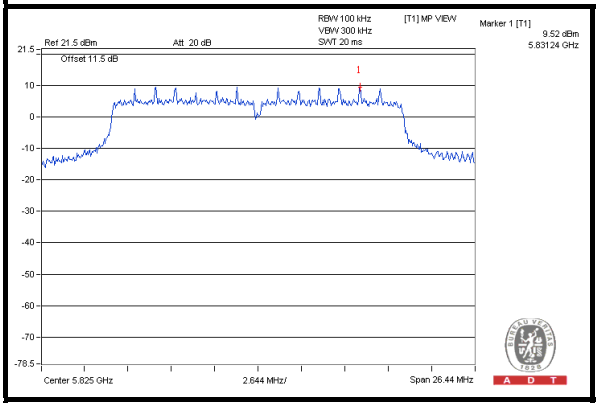


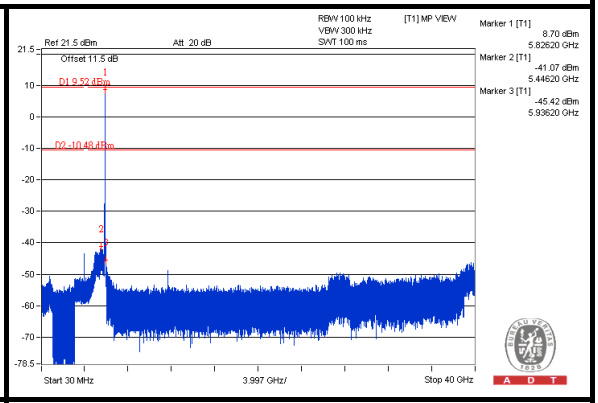
CH 157



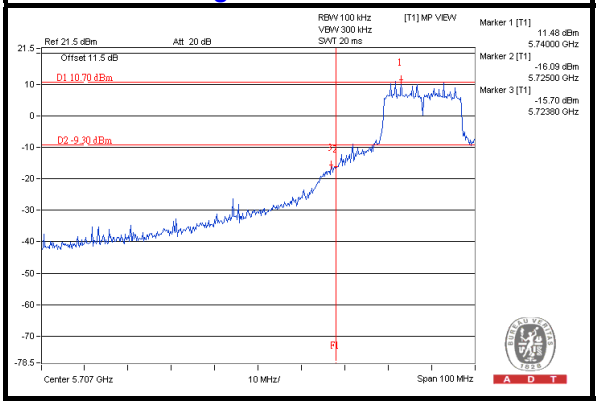


CH 165

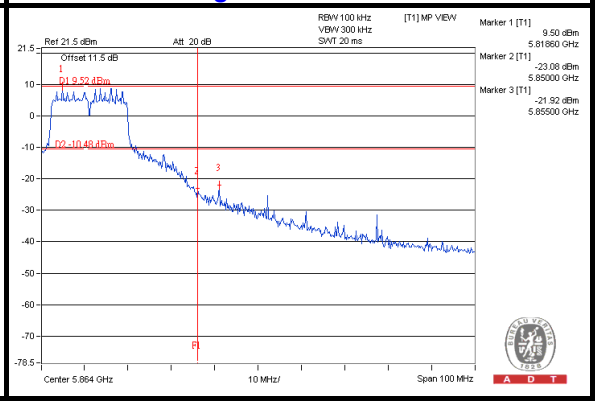




CH 149 Band edge

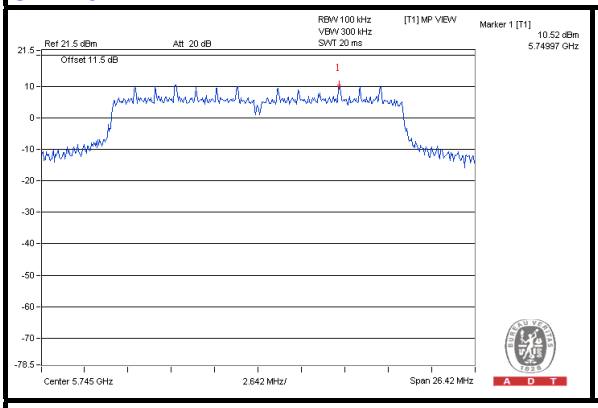


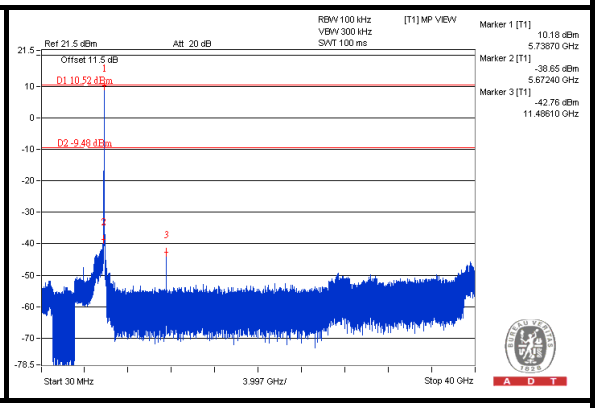
CH 165 Band edge



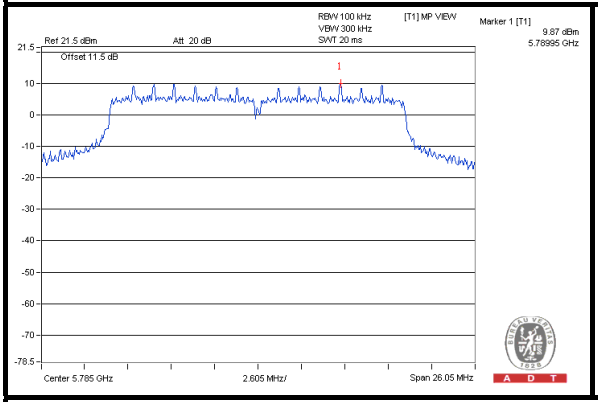
CHAIN 1

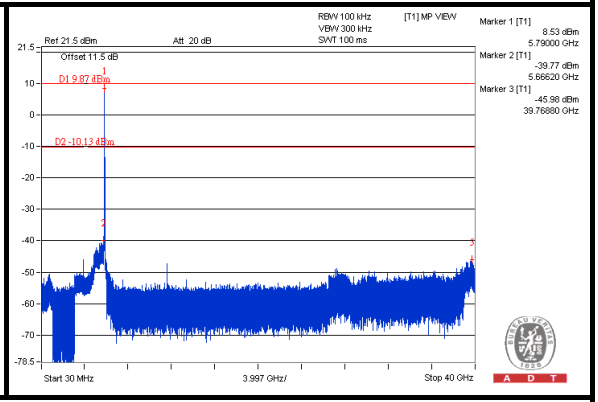
CH 149



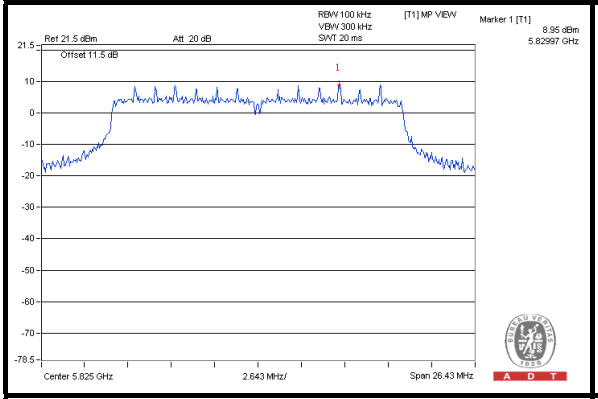


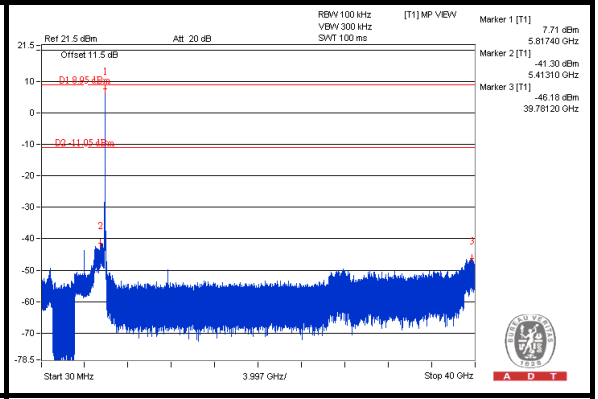
CH 157



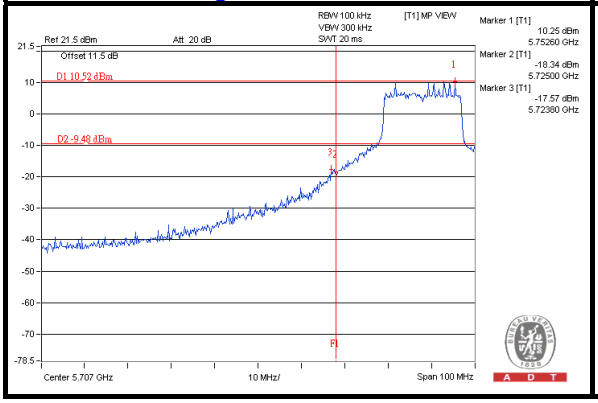


CH 165

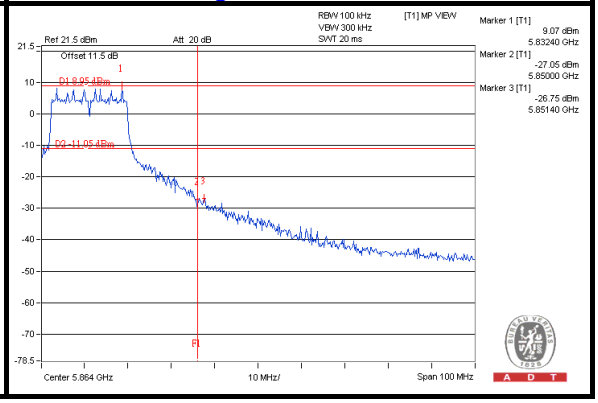




CH 149 Band edge



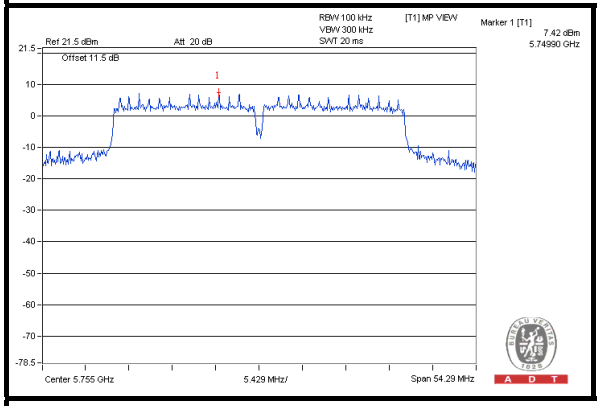
CH 165 Band edge

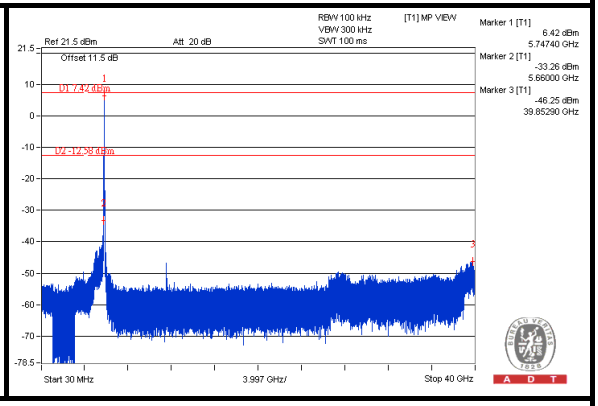


802.11n (40MHz)

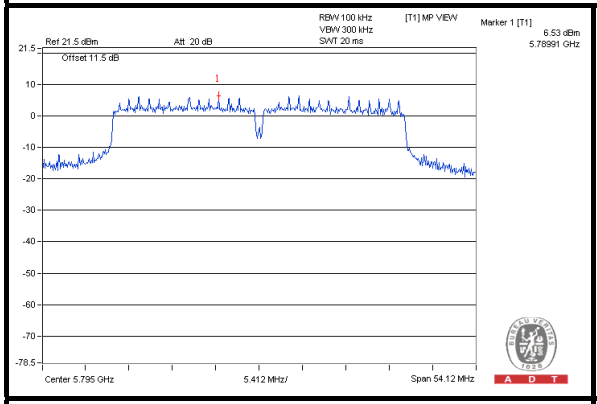
CHAIN 0

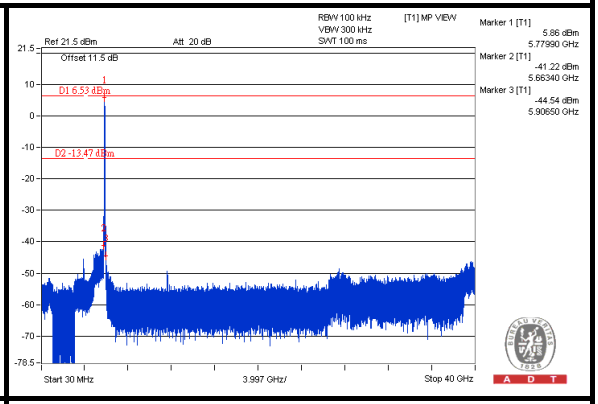
CH 151



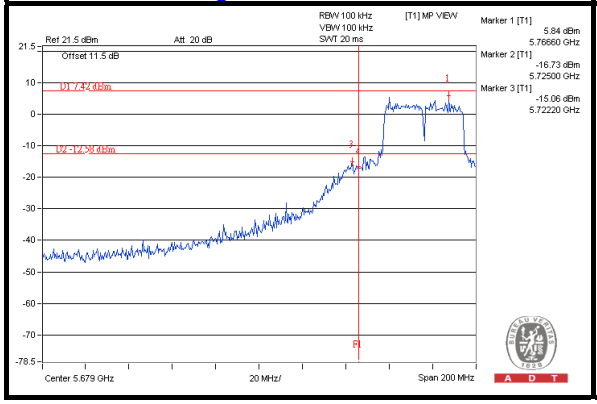


CH 159

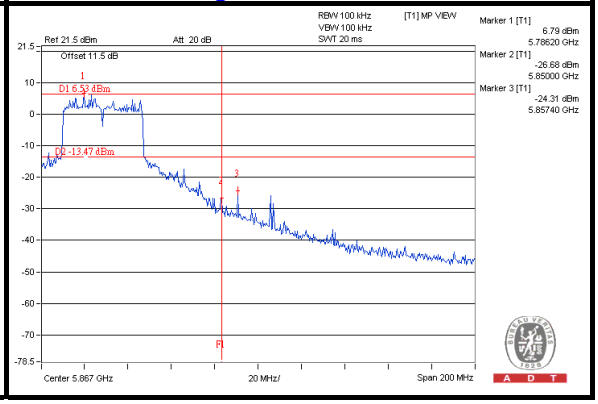




CH 151 Band edge

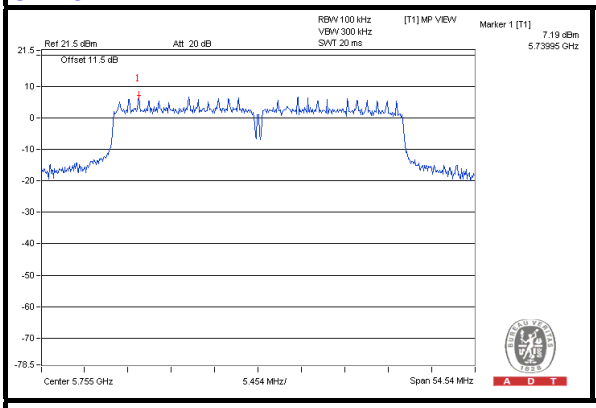


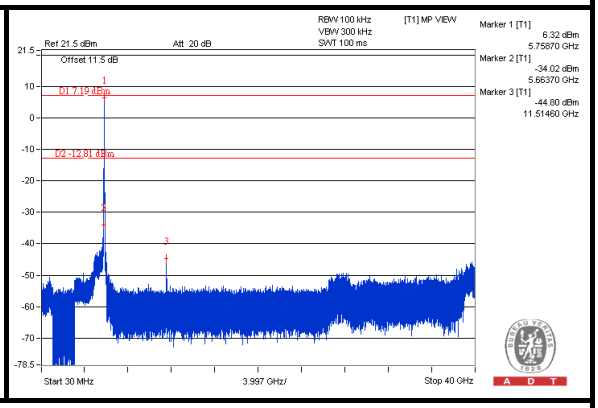
CH 159 Band edge



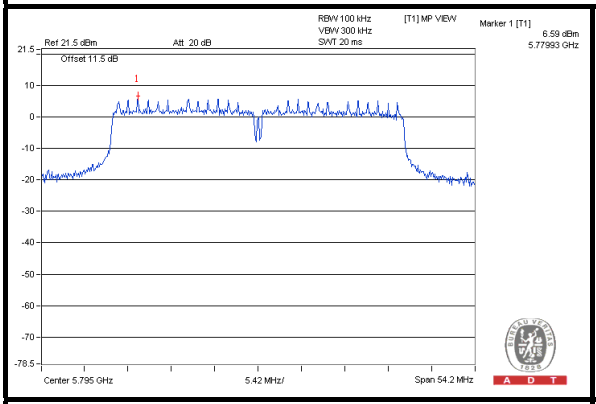
CHAIN 1

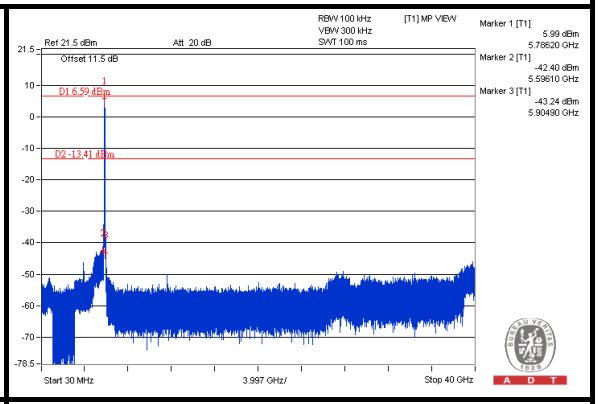
CH 151



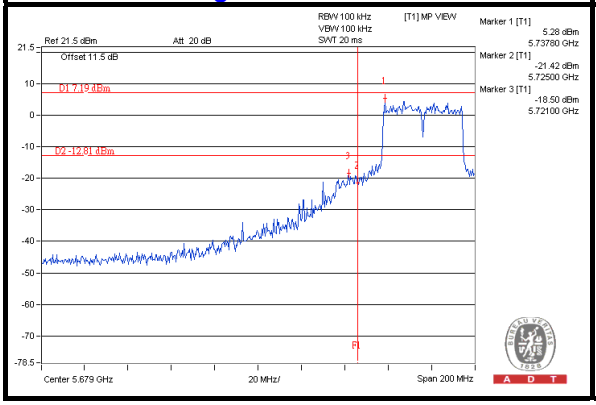


CH 159

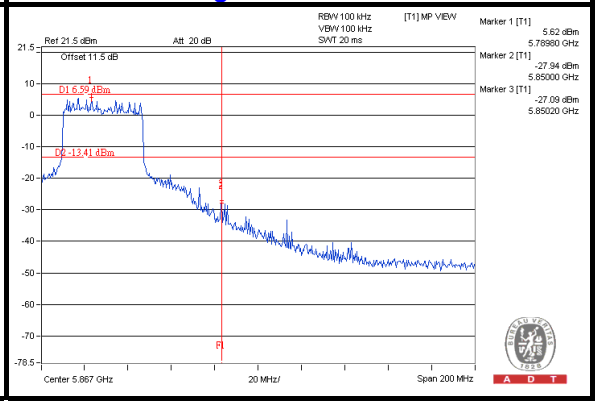




CH 151 Band edge



CH 159 Band edge

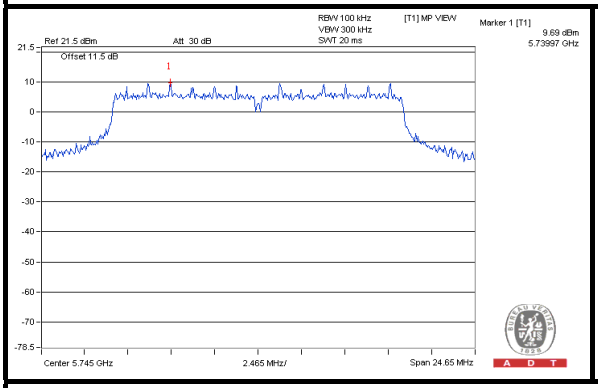


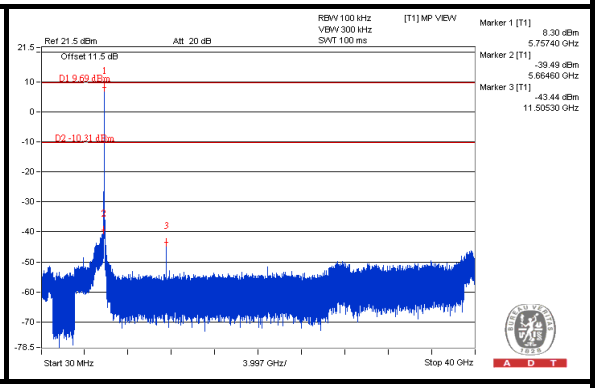
TEST MODE A2

802.11a

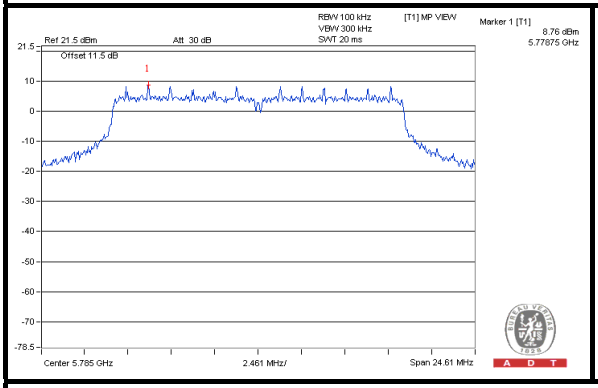
CHAIN 0

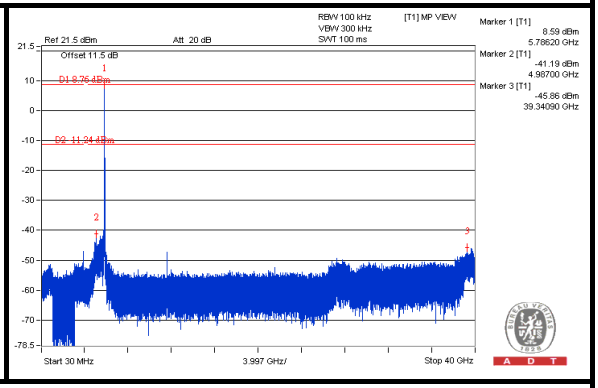
CH 149



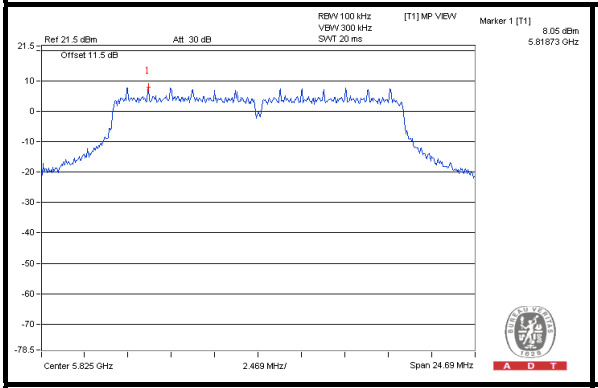


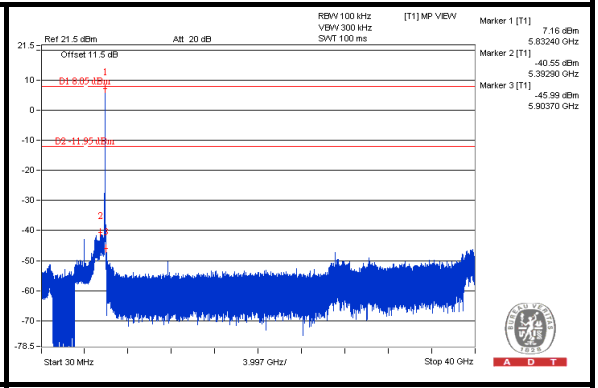
CH 157



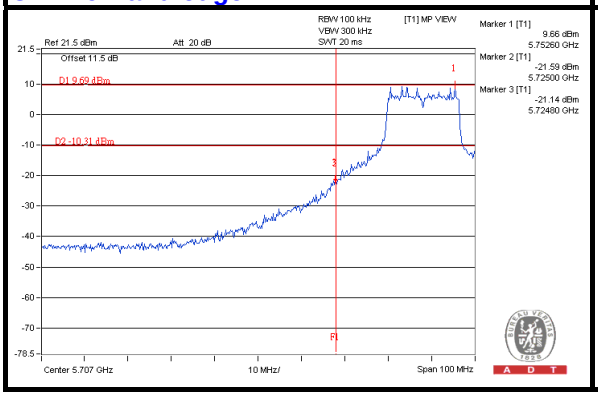


CH 165

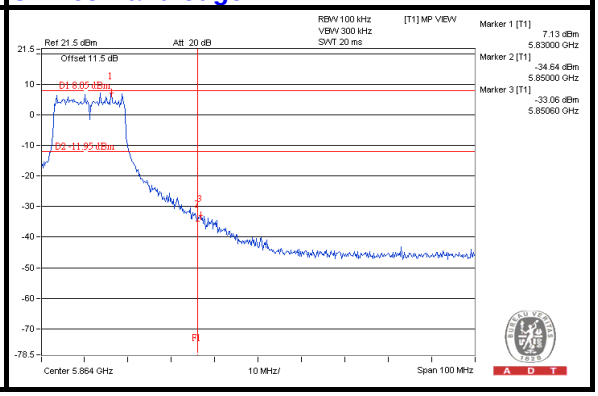




CH 149 Band edge

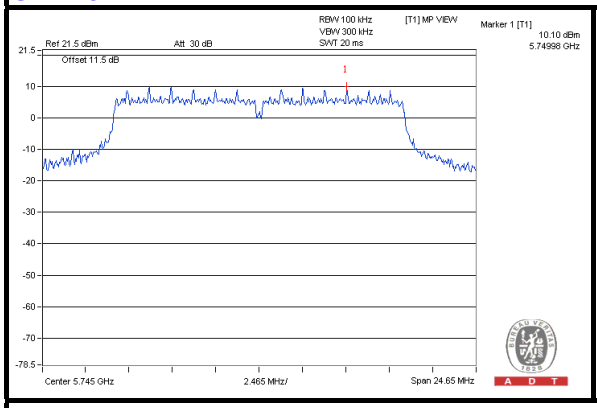


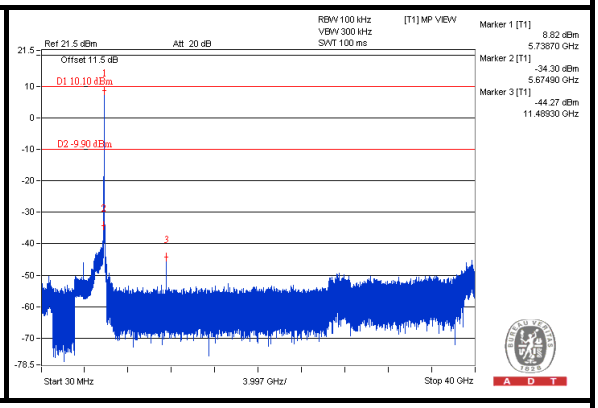
CH 165 Band edge



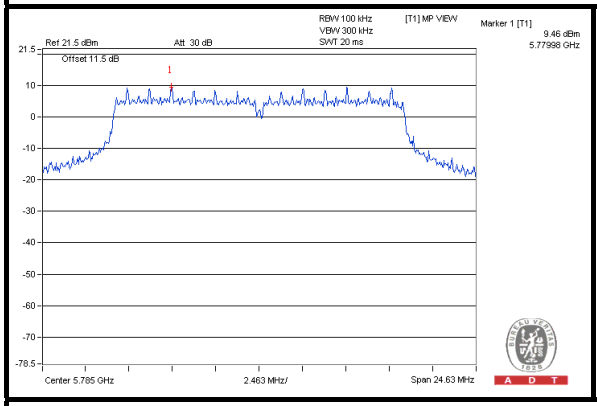
CHAIN 1

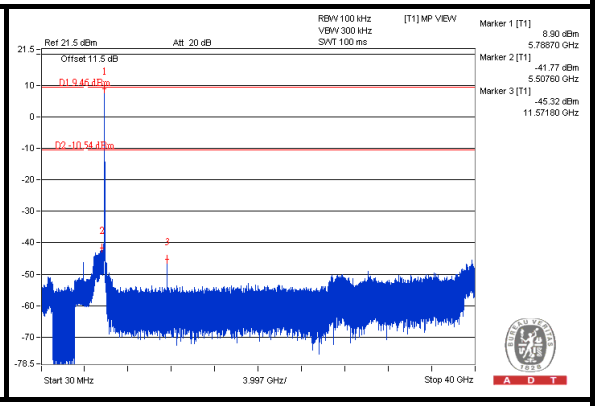
CH 149



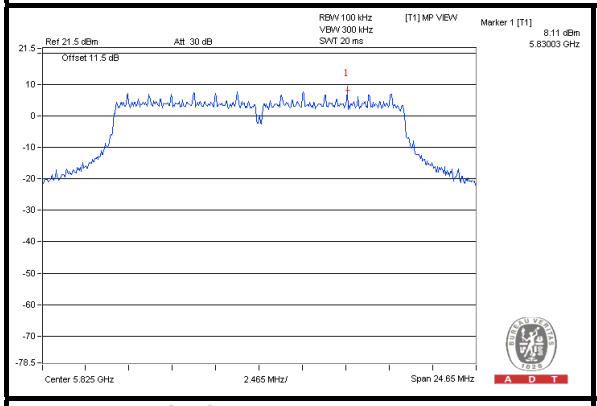


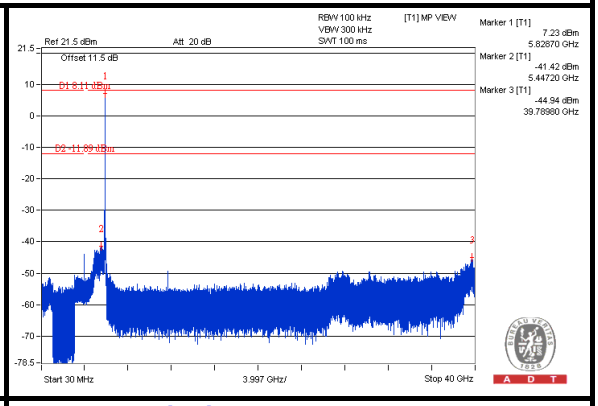
CH 157



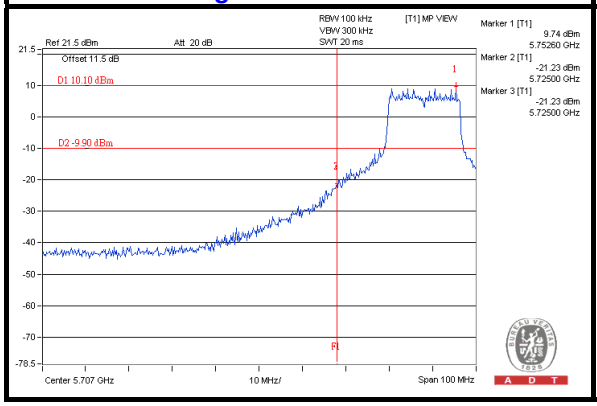


CH 165

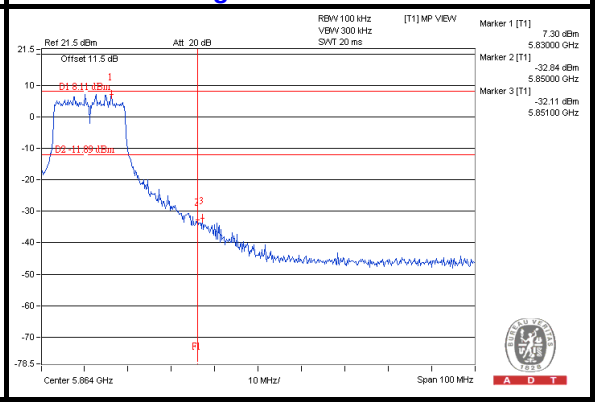




CH 149 Band edge



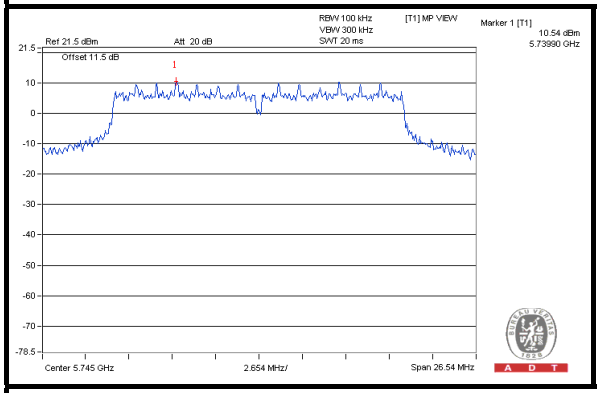
CH 165 Band edge

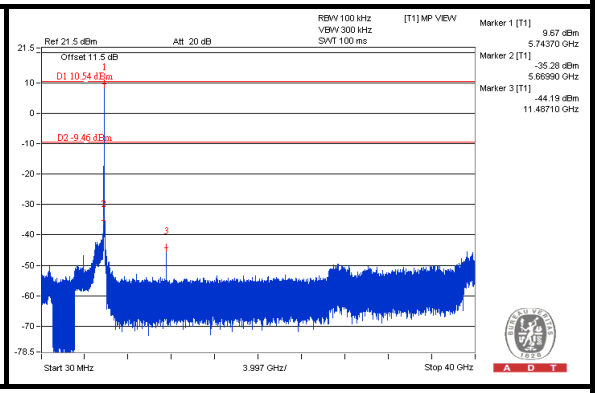


802.11n (20MHz)

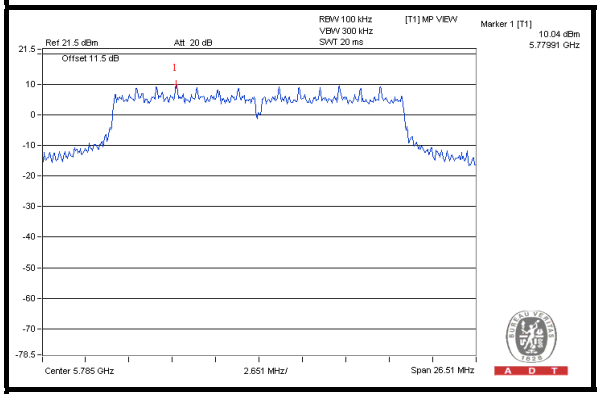
CHAIN 0

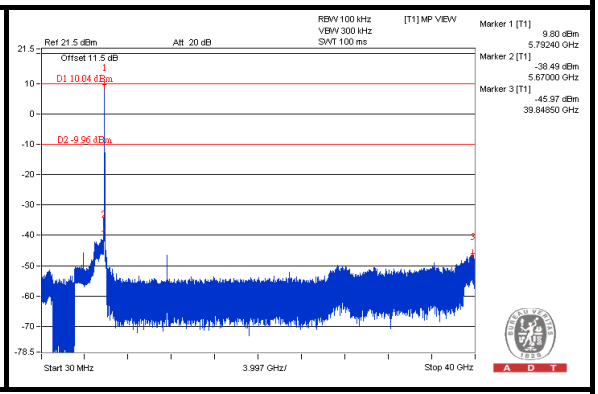
CH 149



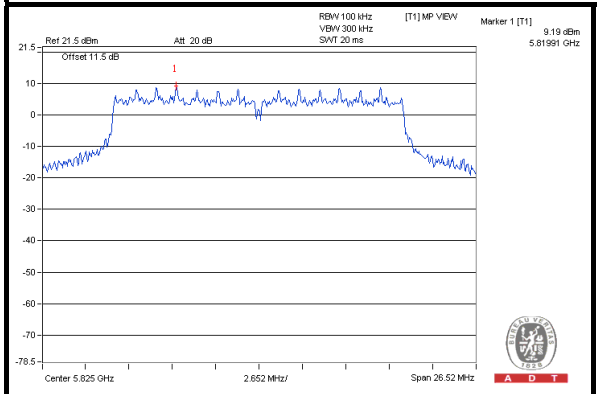


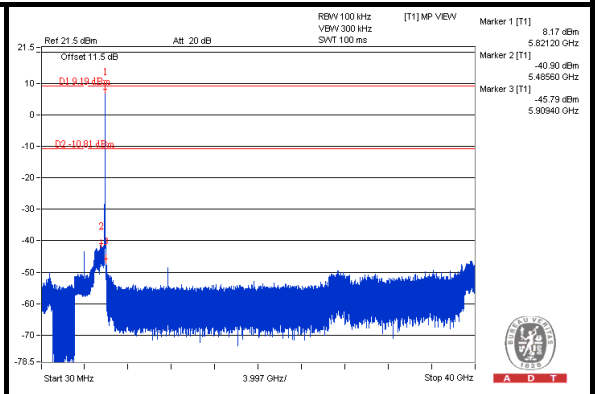
CH 157



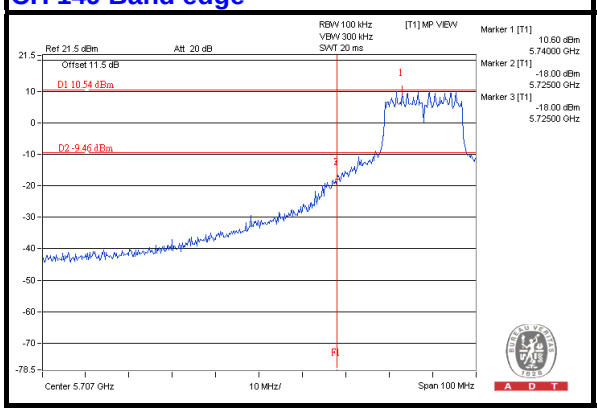


CH 165

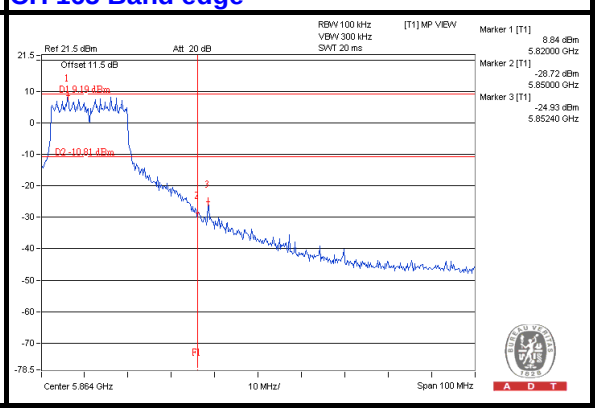




CH 149 Band edge

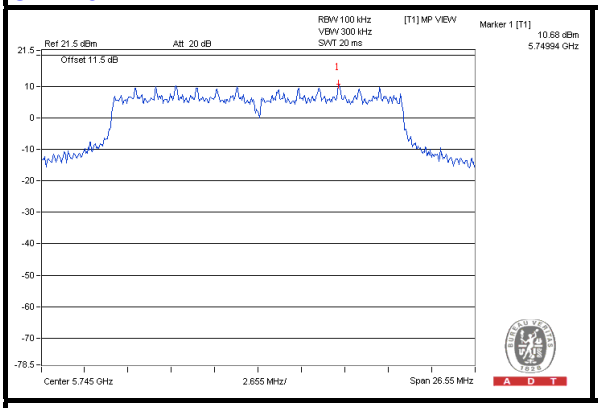


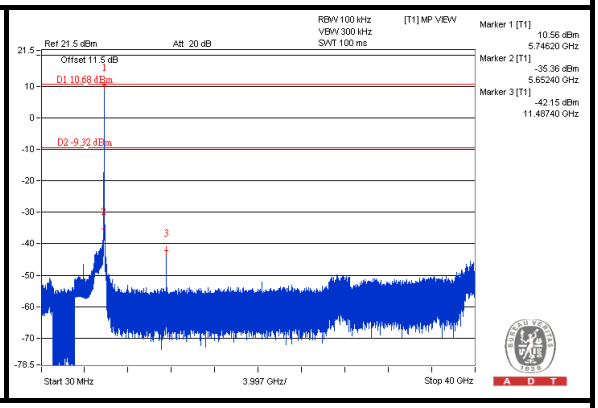
CH 165 Band edge



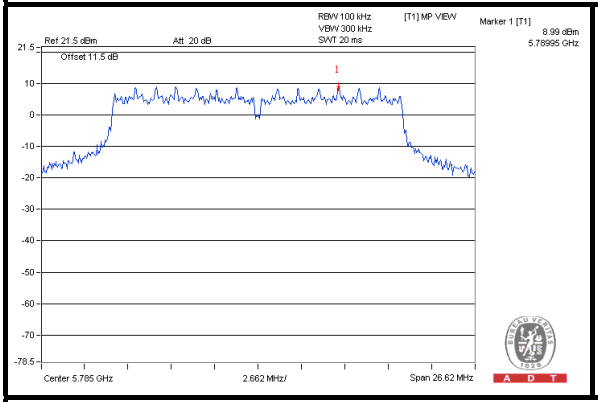
CHAIN 1

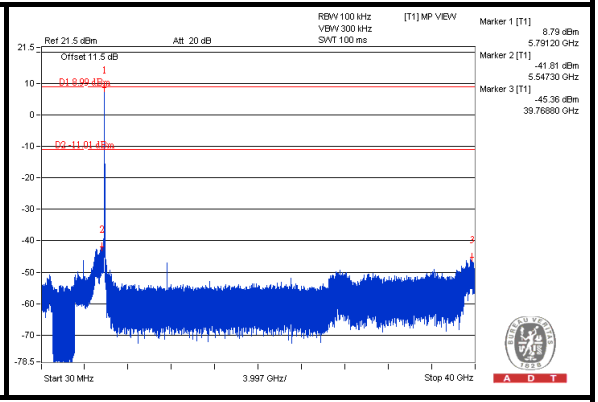
CH 149



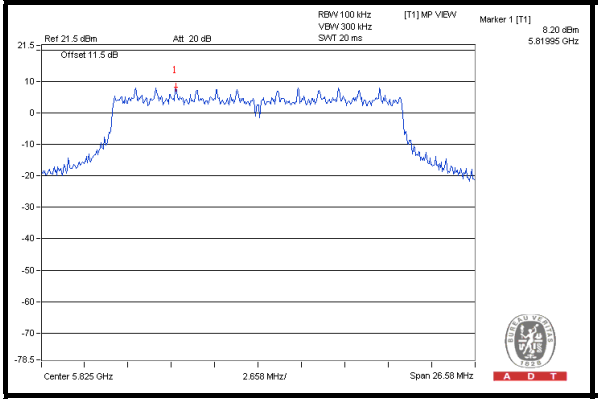


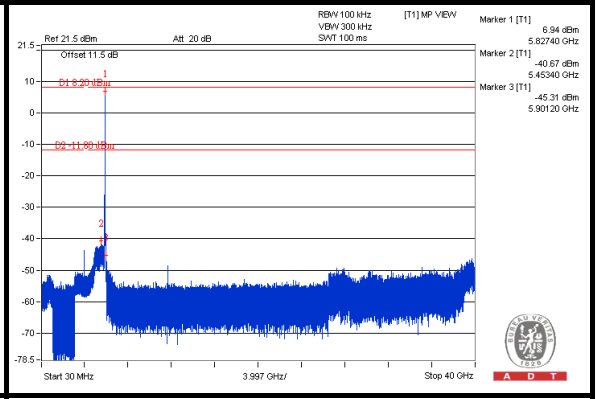
CH 157



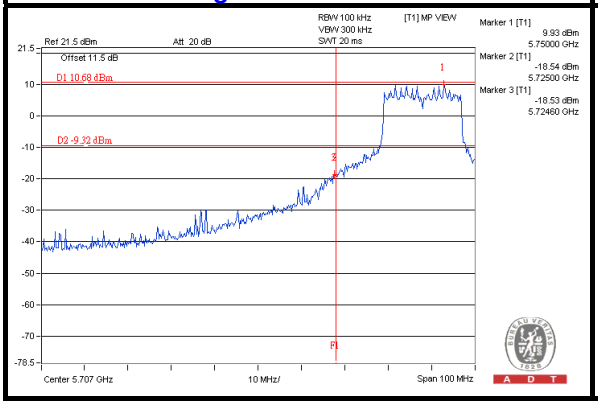


CH 165

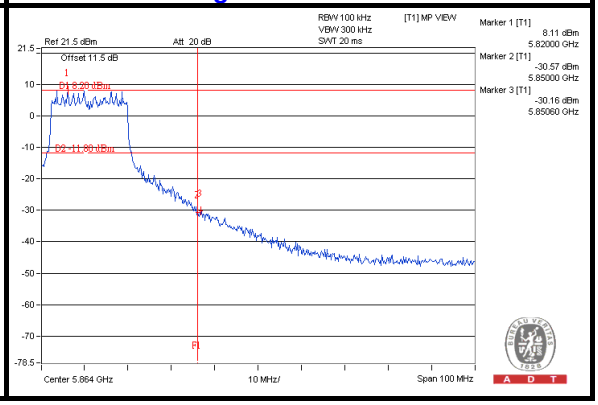




CH 149 Band edge



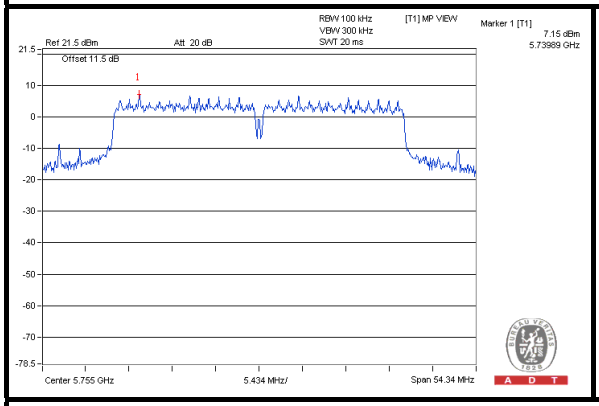
CH 165 Band edge

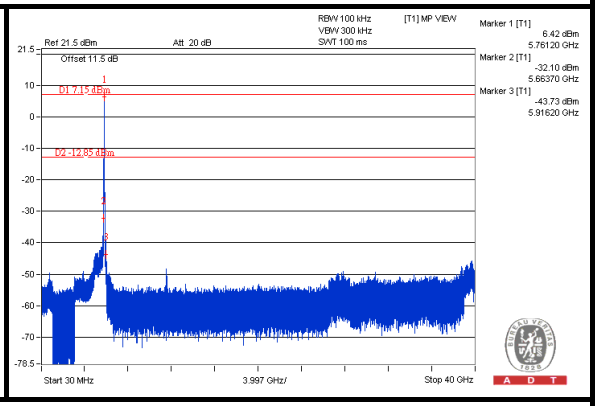


802.11n (40MHz)

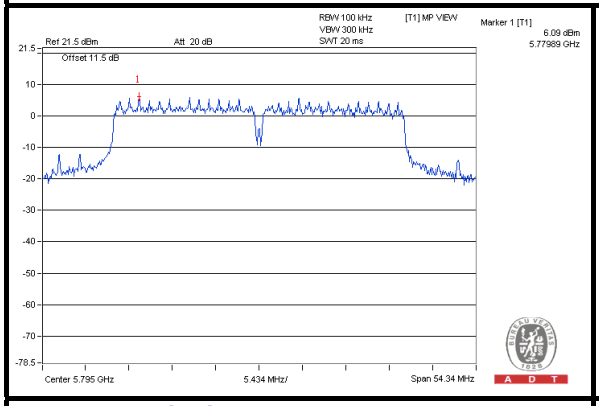
CHAIN 0

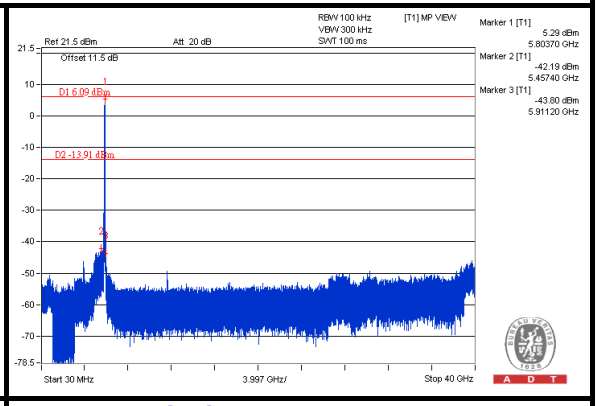
CH 151



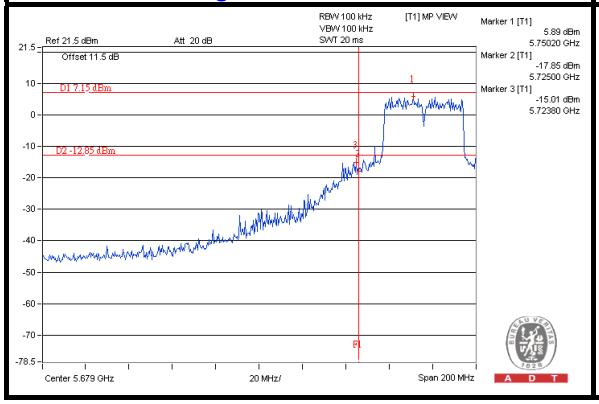


CH 159

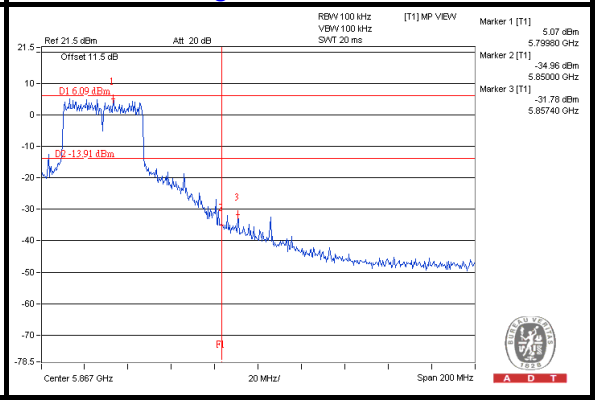




CH 151 Band edge

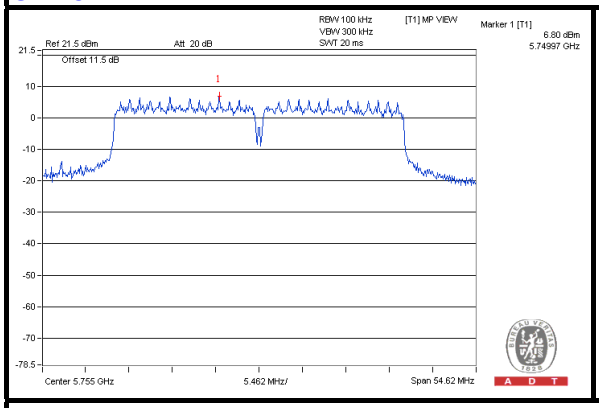


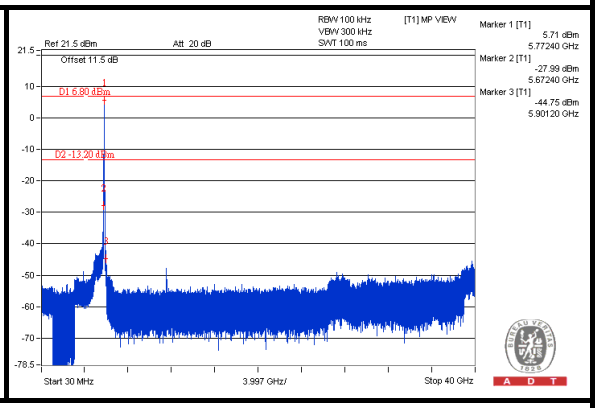
CH 159 Band edge



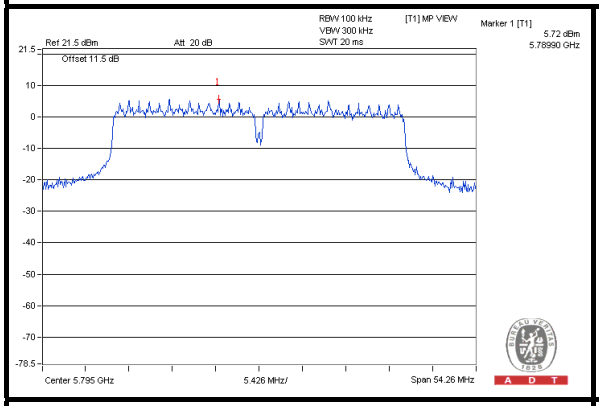
CHAIN 1

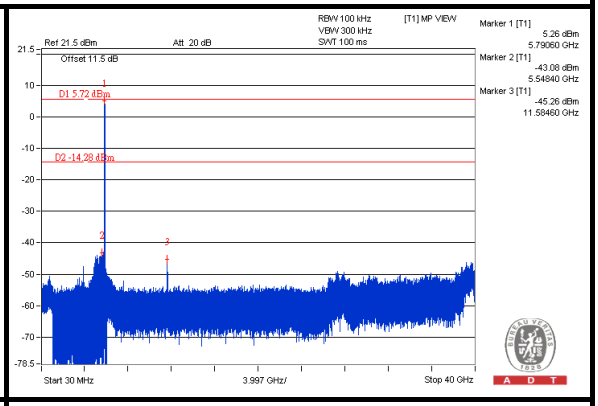
CH 151



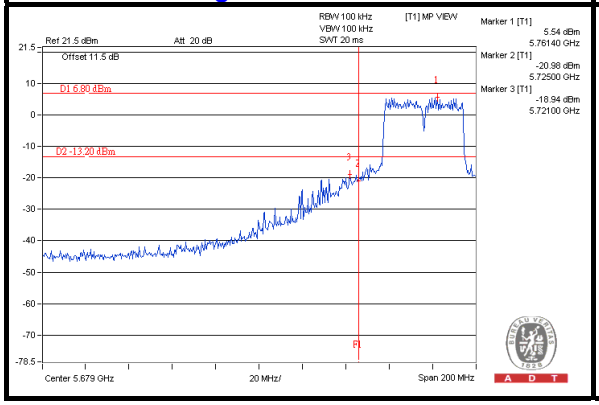


CH 159

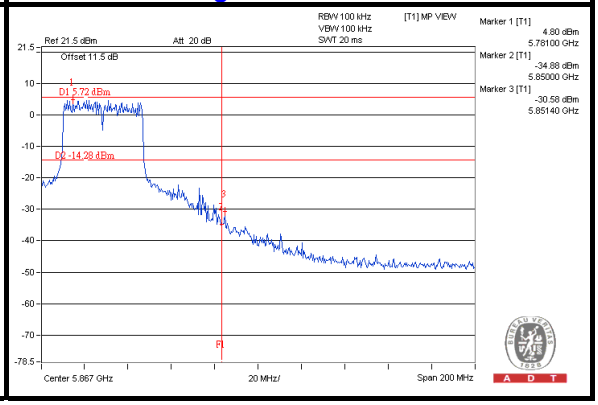




CH 151 Band edge



CH 159 Band edge

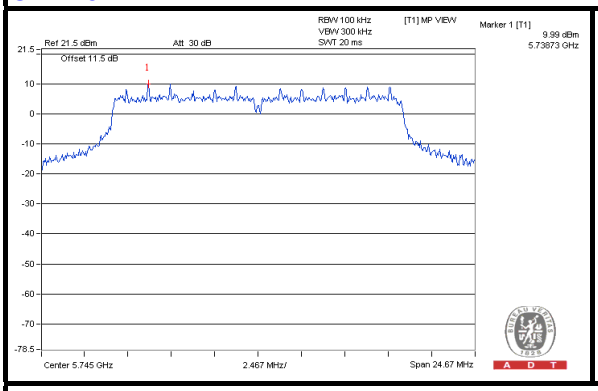


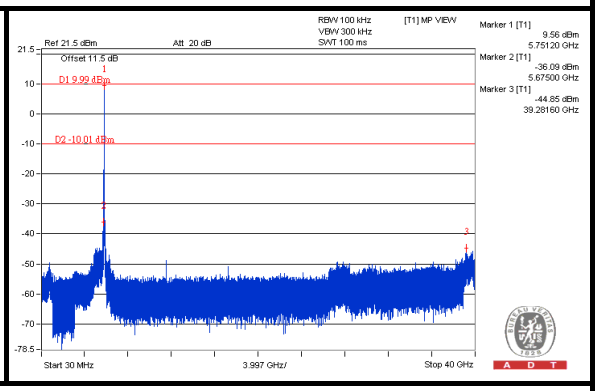
TEST MODE B1

802.11a

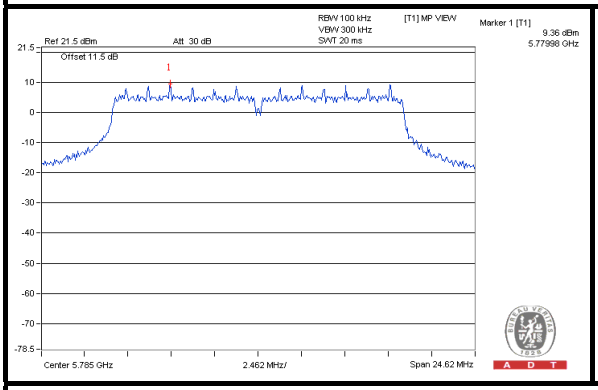
CHAIN 0

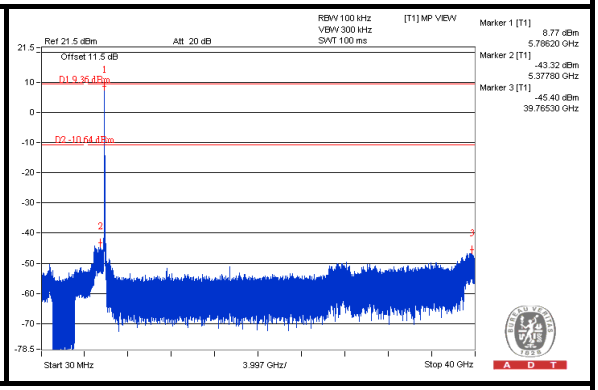
CH 149



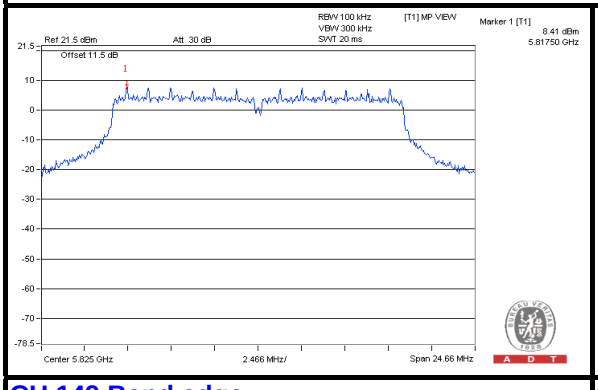


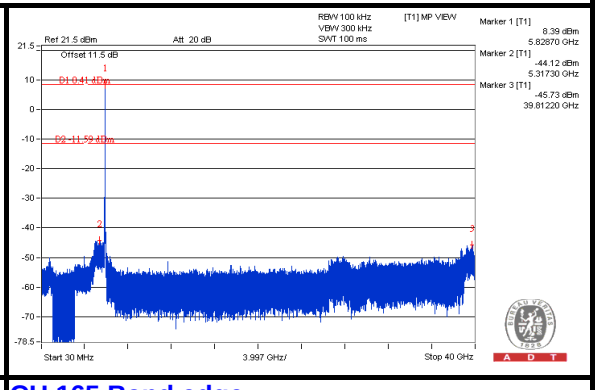
CH 157



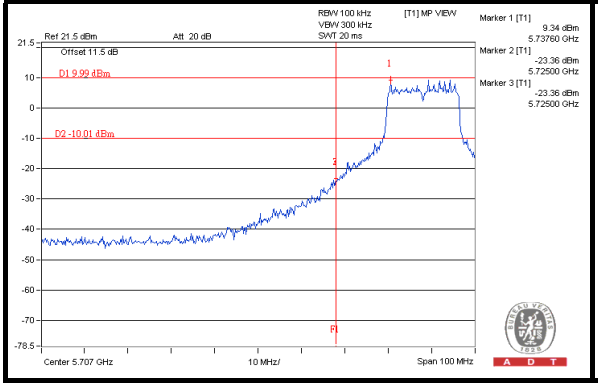


CH 165

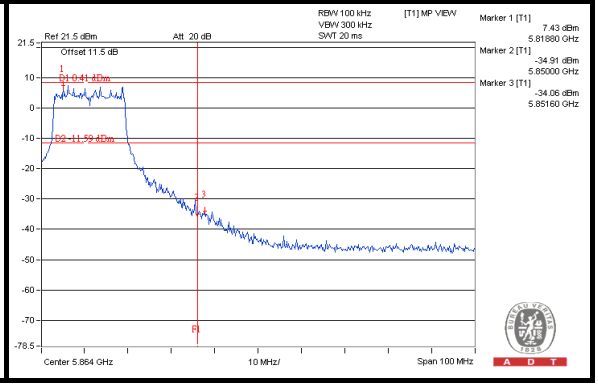




CH 149 Band edge

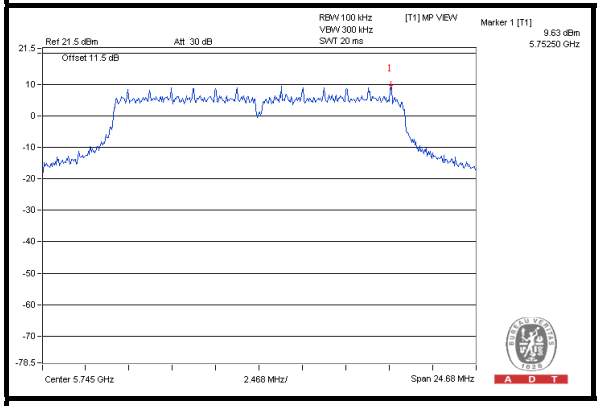


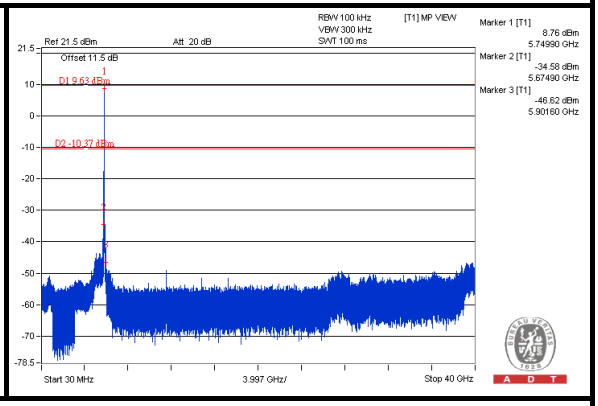
CH 165 Band edge



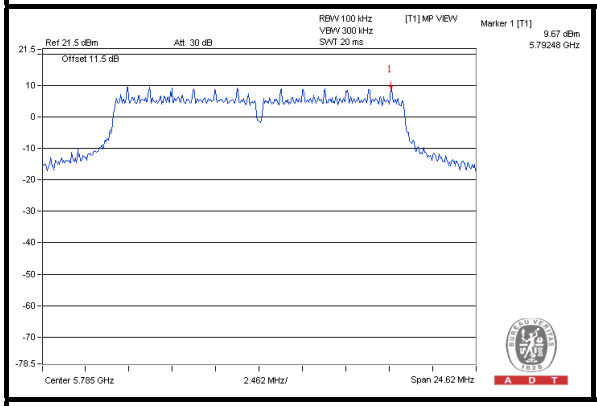
CHAIN 1

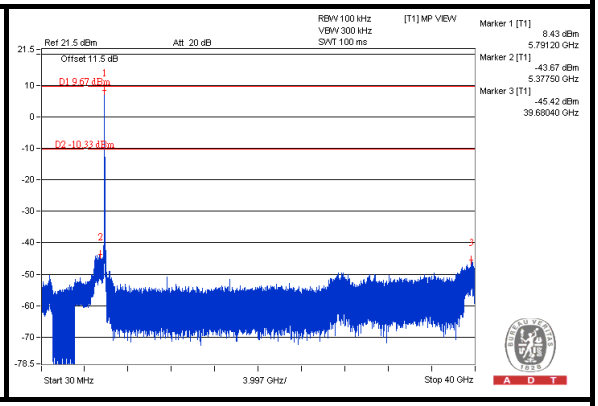
CH 149



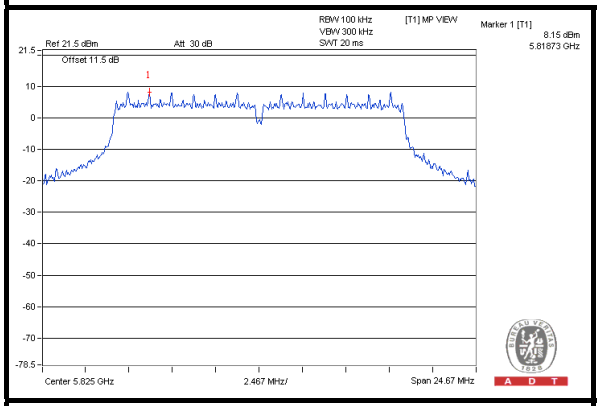


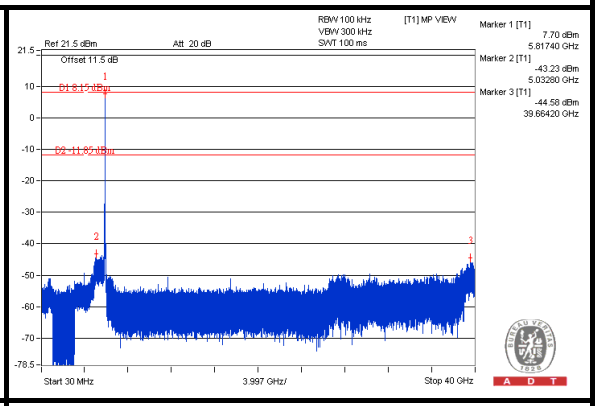
CH 157



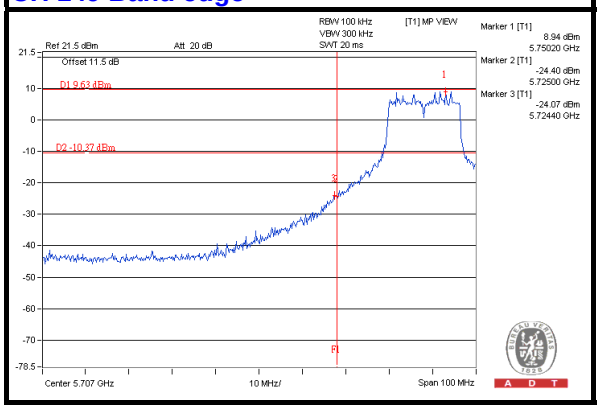


CH 165

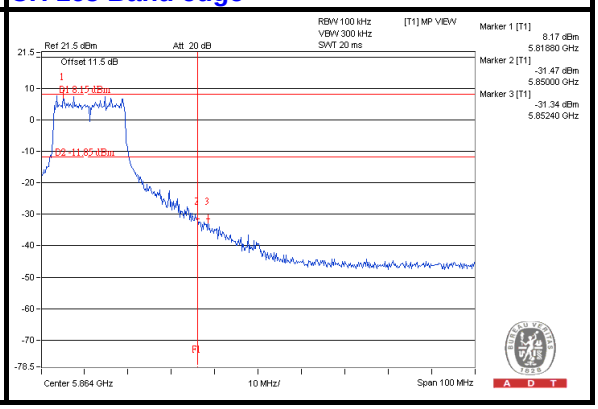




CH 149 Band edge



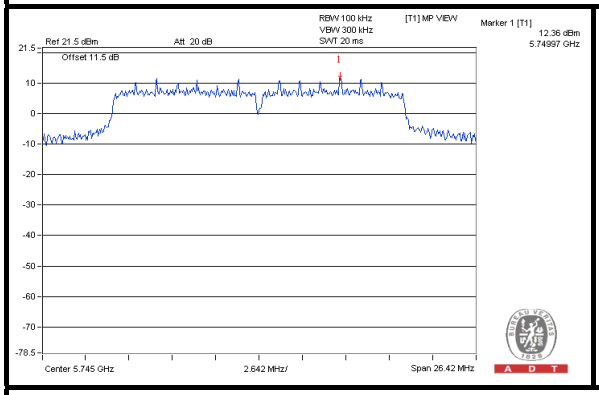
CH 165 Band edge

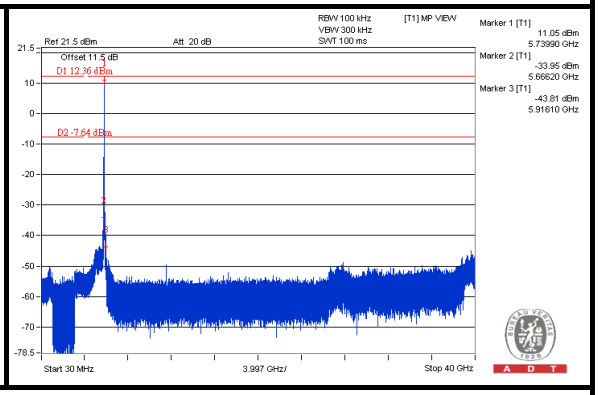


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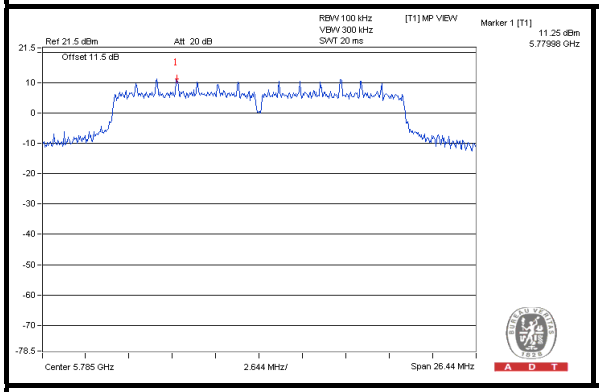
CHAIN 0

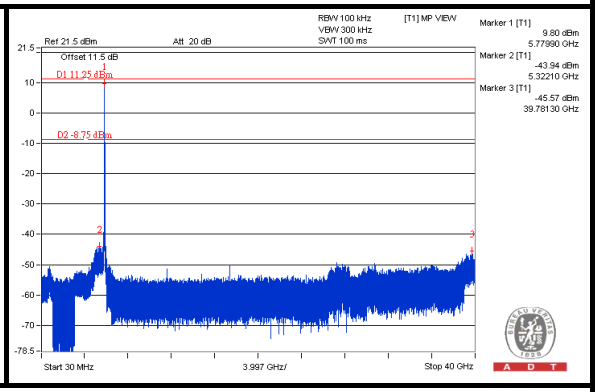
CH 149



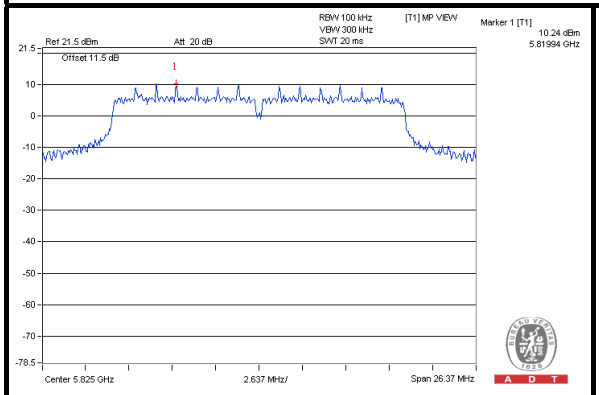


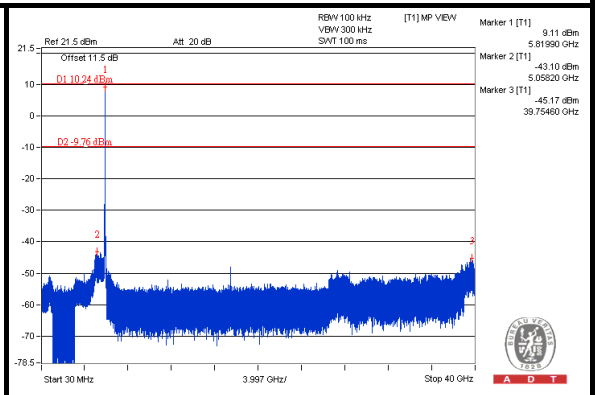
CH 157



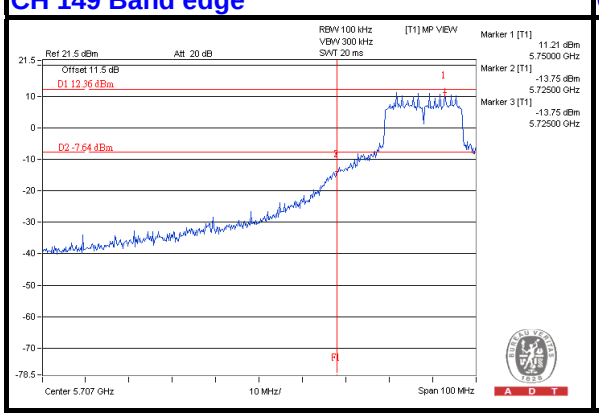


CH 165

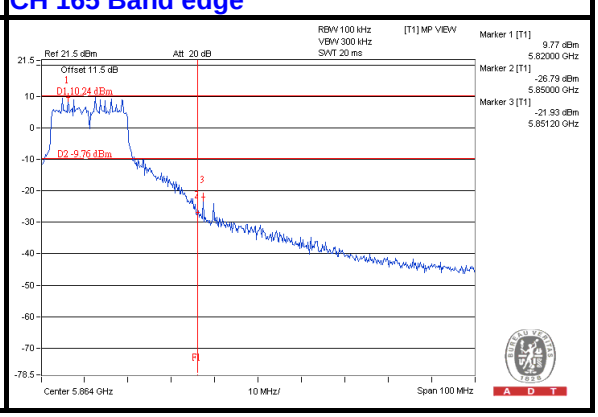




CH 149 Band edge

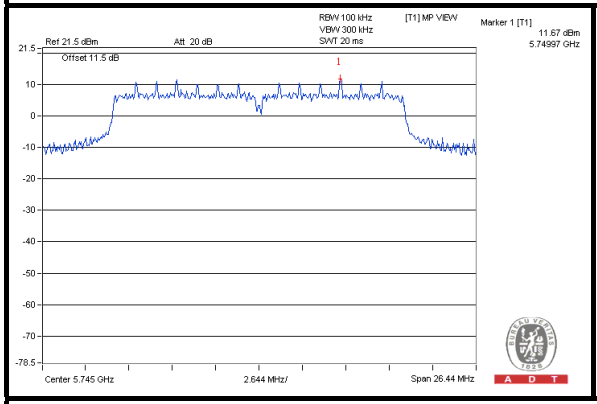


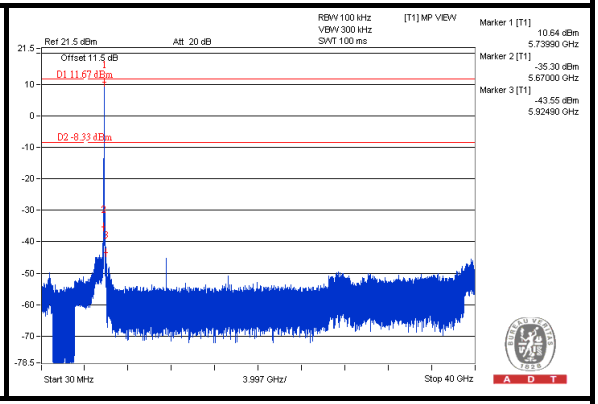
CH 165 Band edge



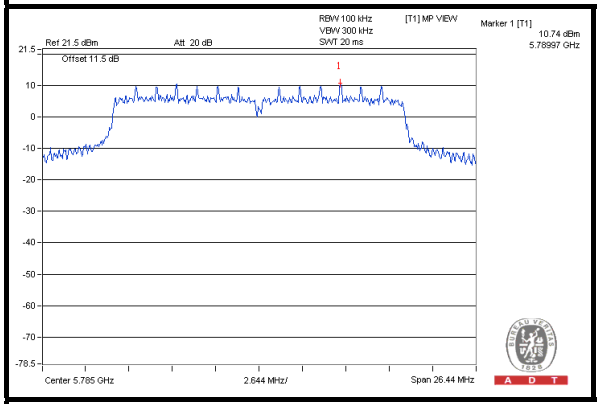
CHAIN 1

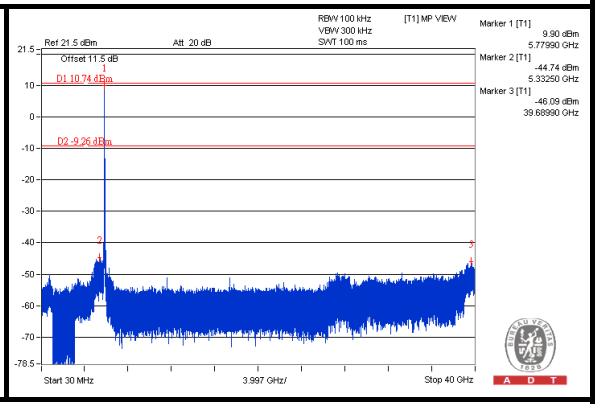
CH 149



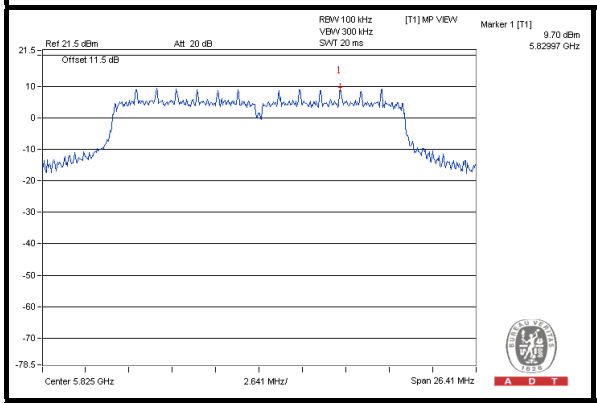


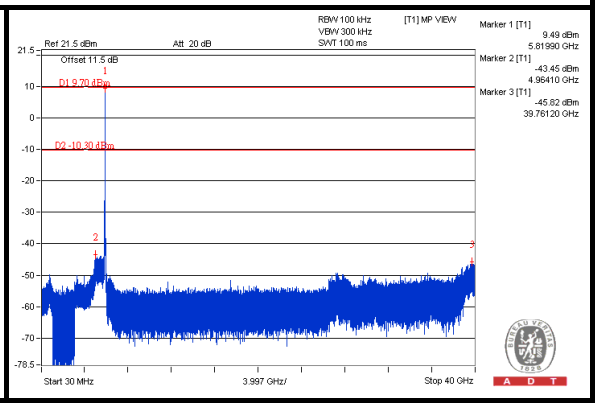
CH 157



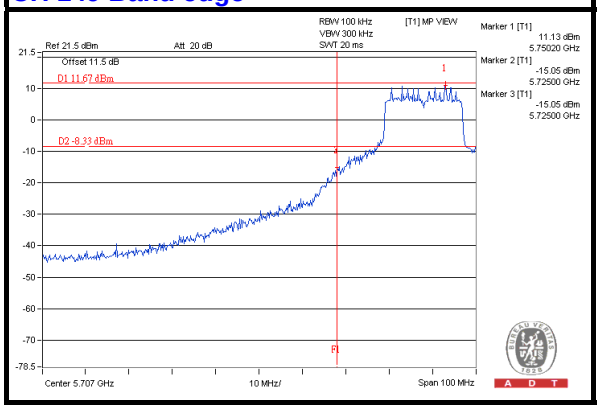


CH 165

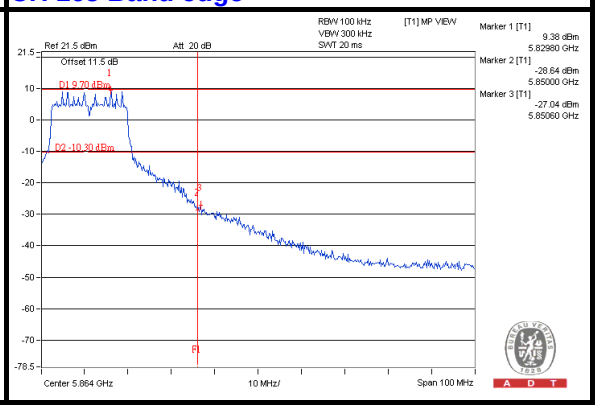




CH 149 Band edge



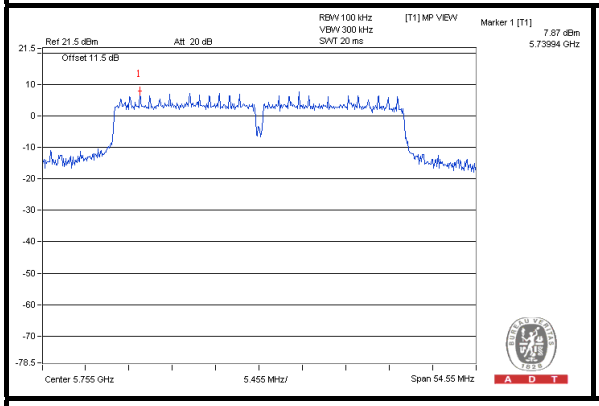
CH 165 Band edge

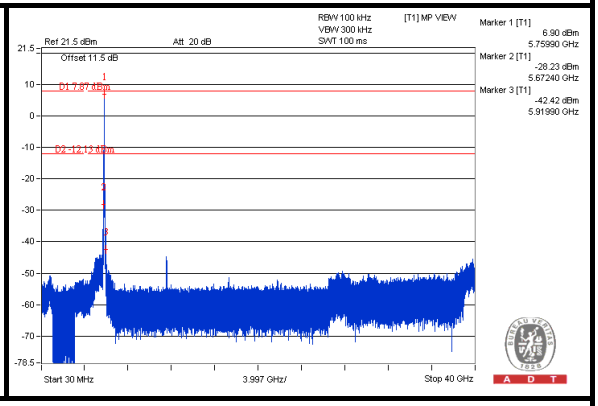


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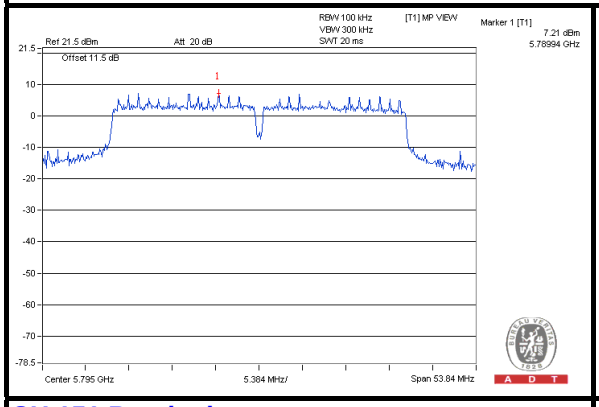
CHAIN 0

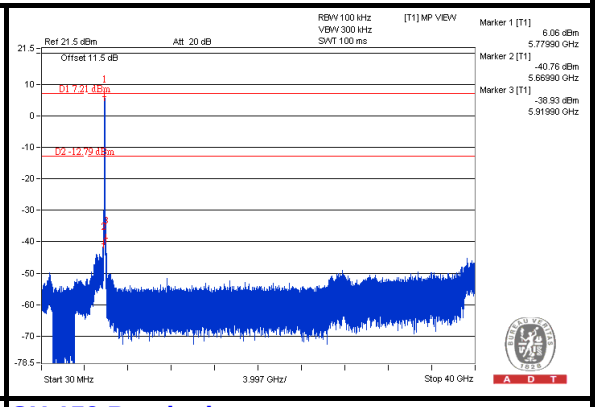
CH 151



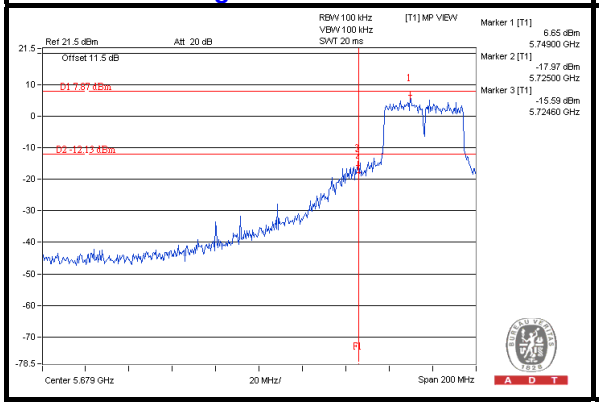


CH 159

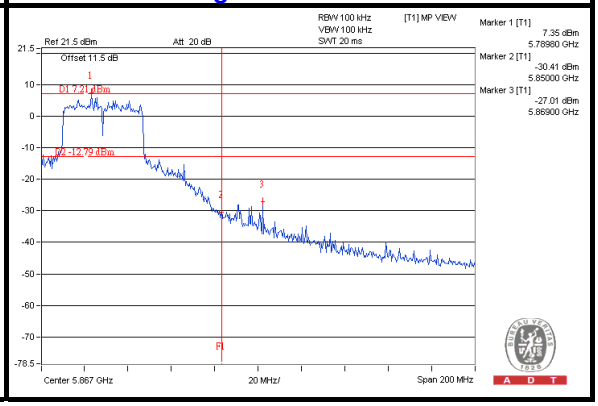




CH 151 Band edge

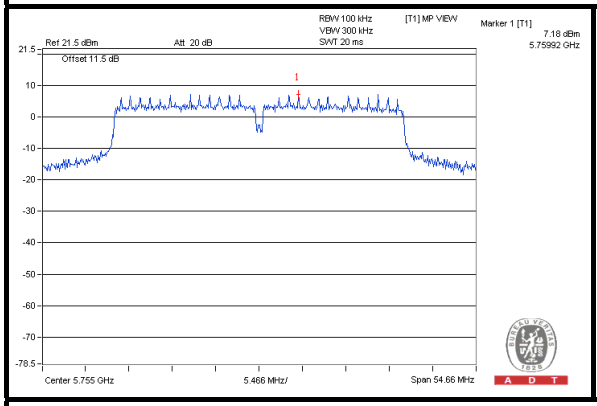


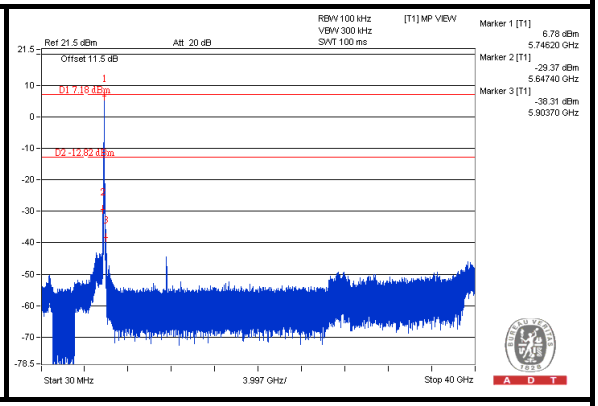
CH 159 Band edge



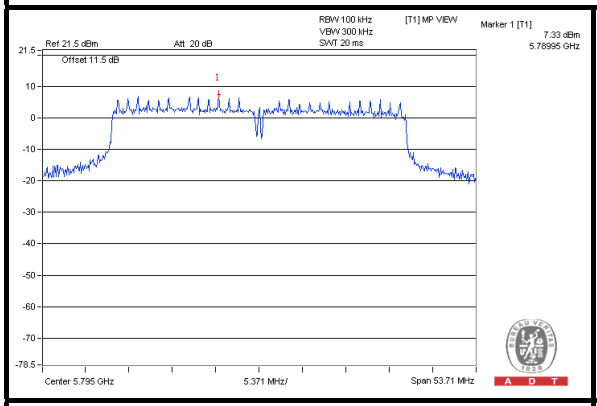
CHAIN 1

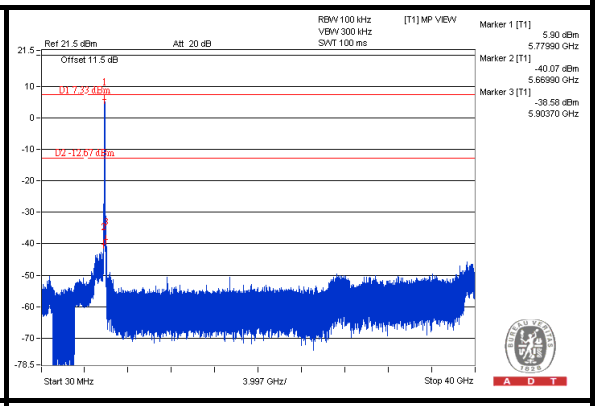
CH 151



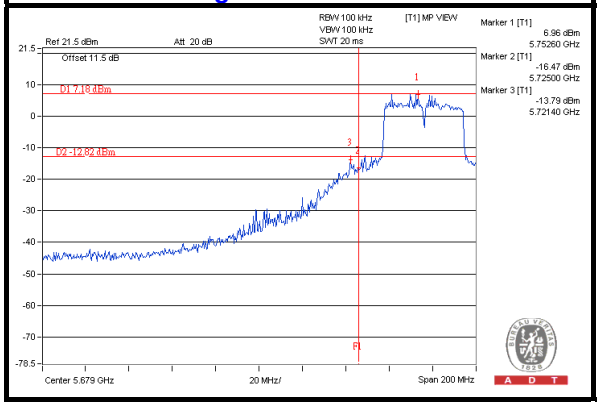


CH 159

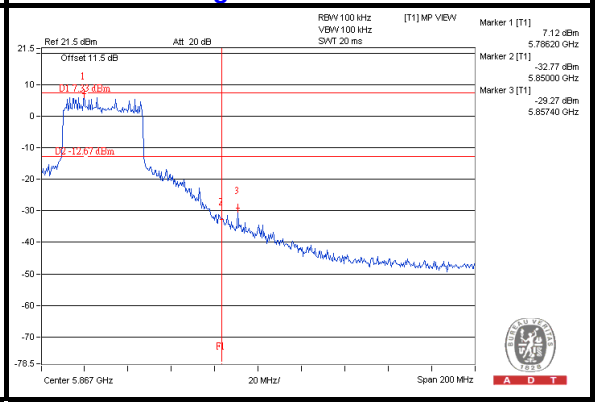




CH 151 Band edge



CH 159 Band edge

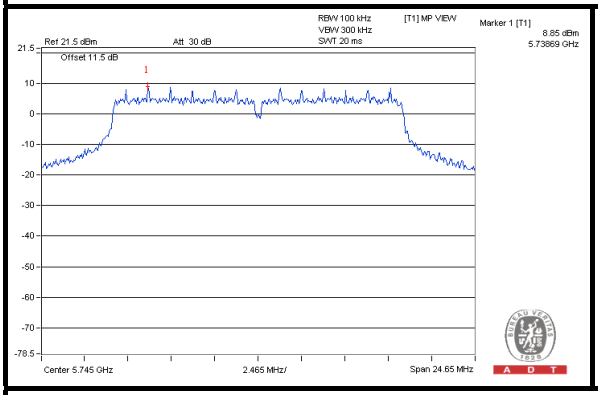


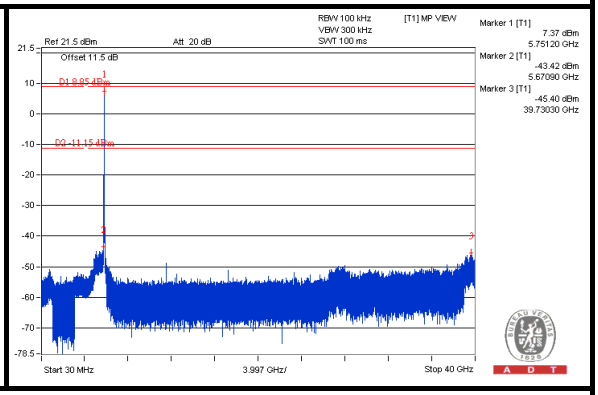
TEST MODE B2

802.11a

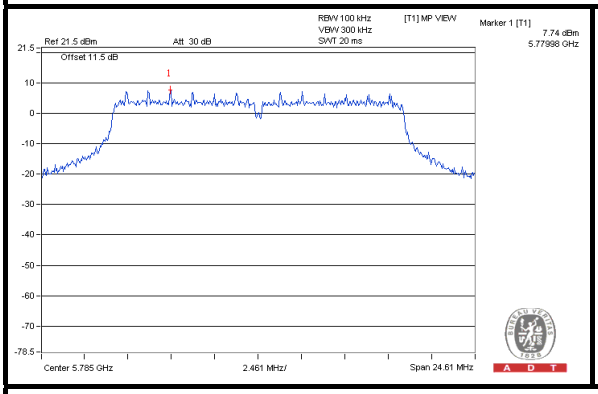
CHAIN 0

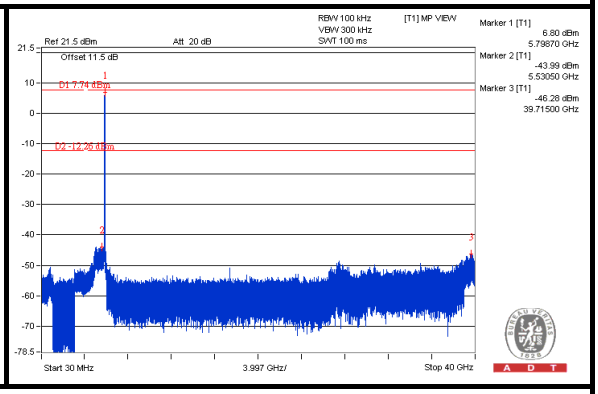
CH 149



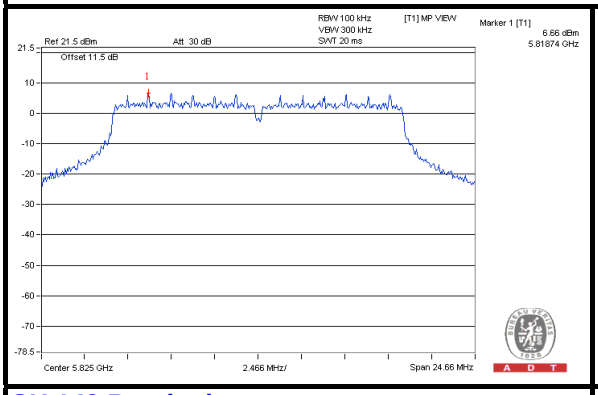


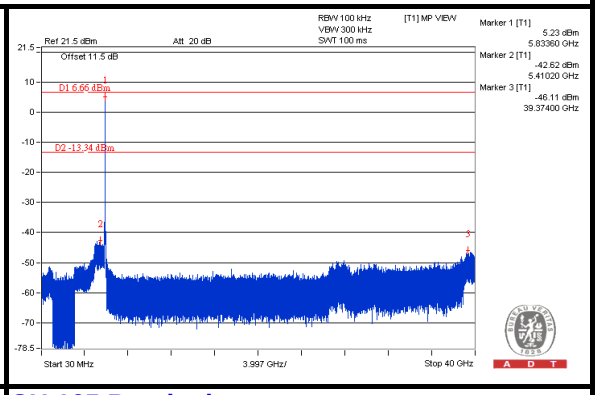
CH 157



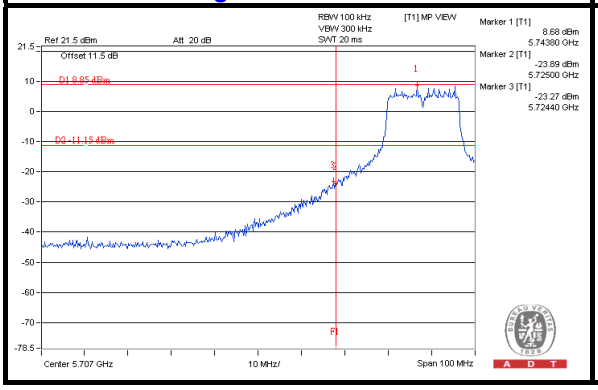


CH 165

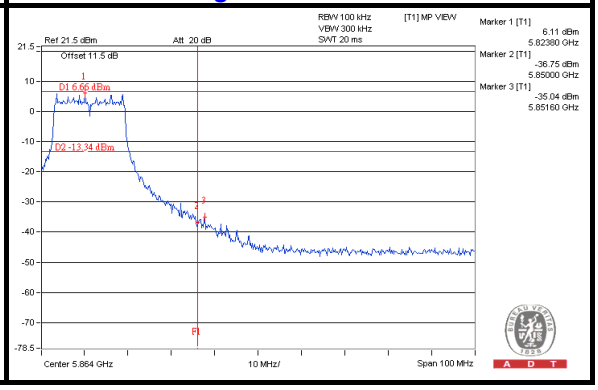




CH 149 Band edge

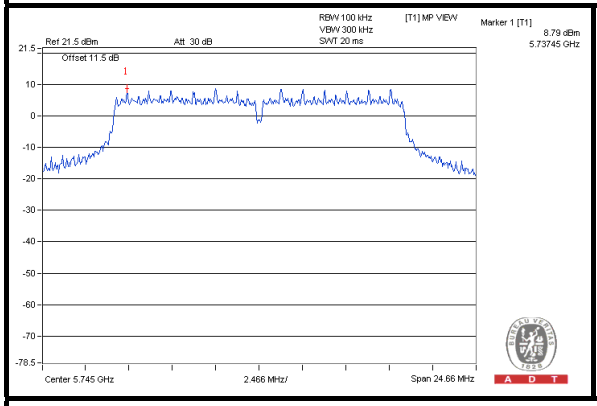


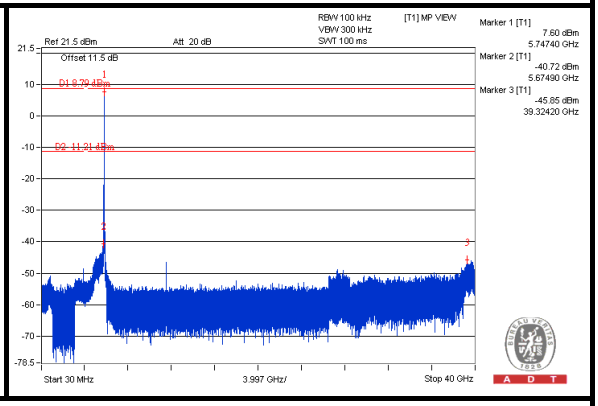
CH 165 Band edge



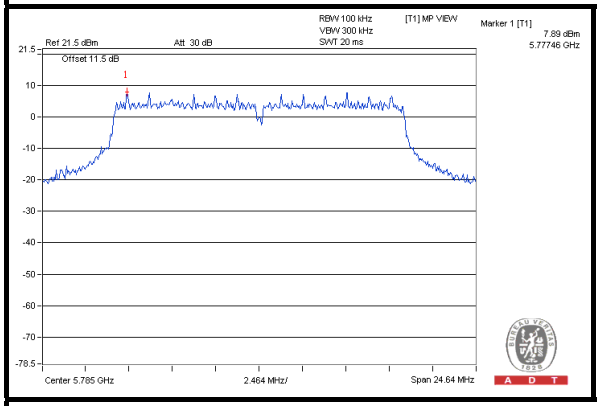
CHAIN 1

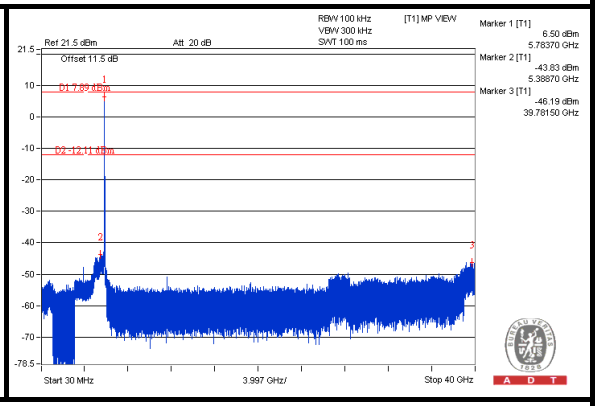
CH 149



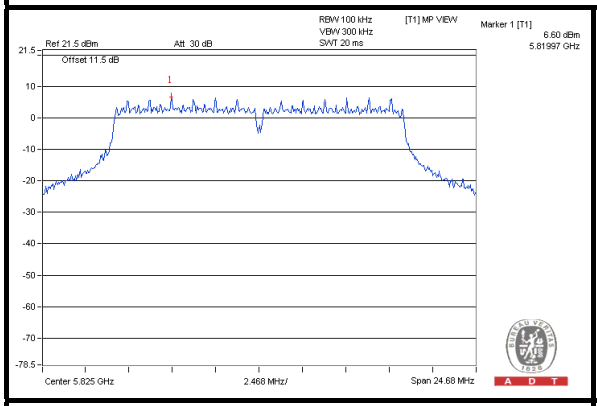


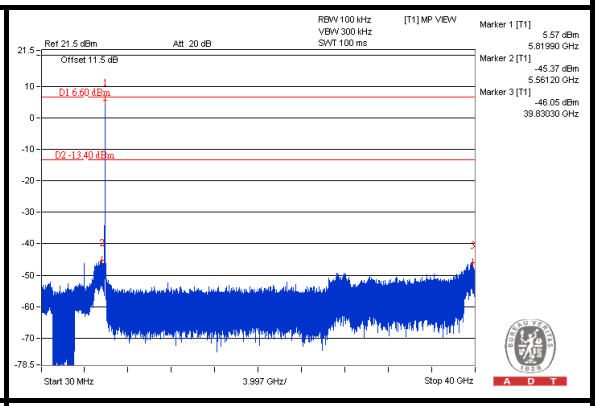
CH 157



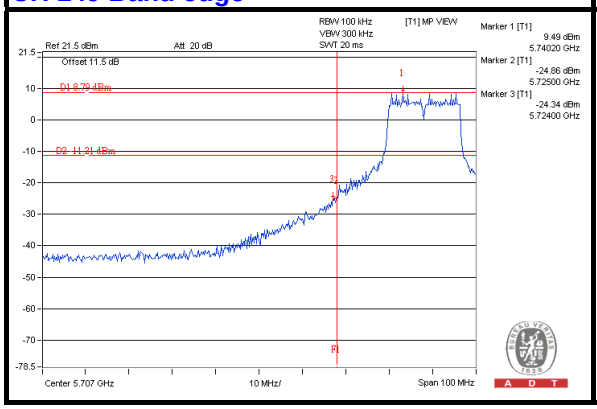


CH 165

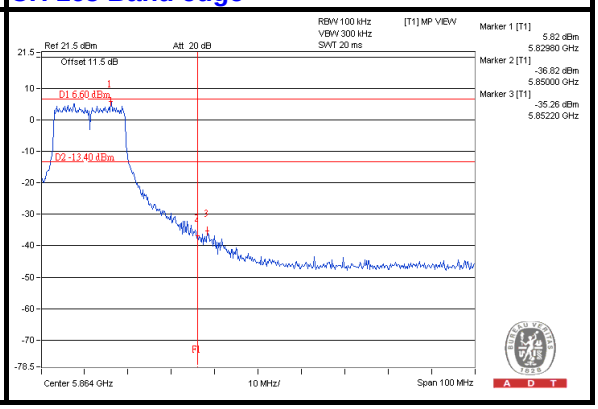




CH 149 Band edge



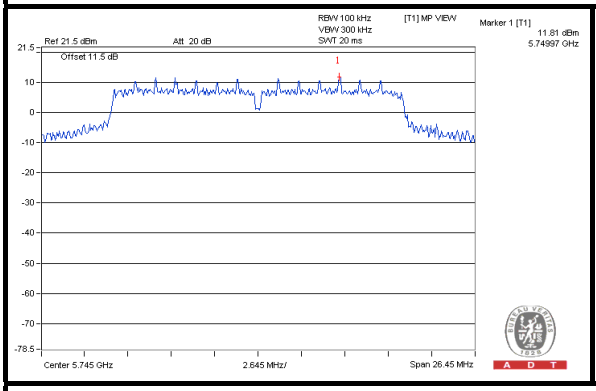
CH 165 Band edge

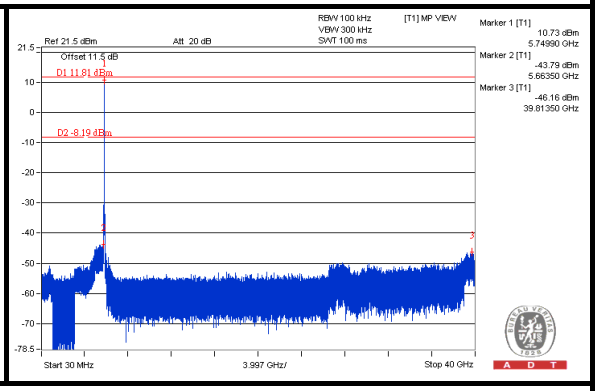


802.11n (20MHz)

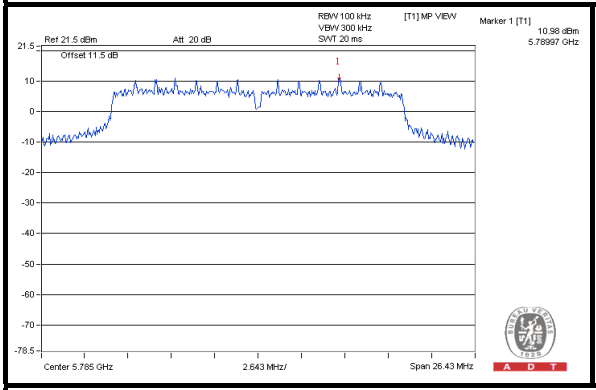
CHAIN 0

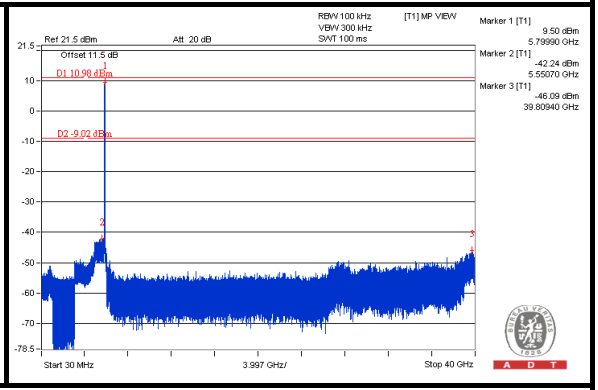
CH 149



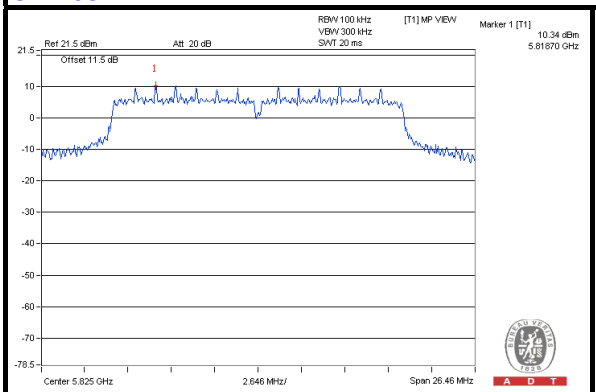


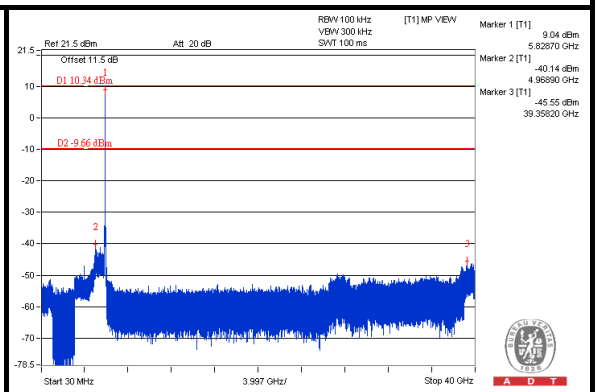
CH 157



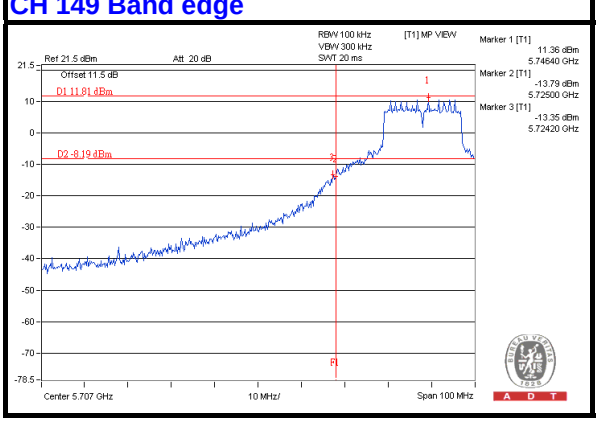


CH 165

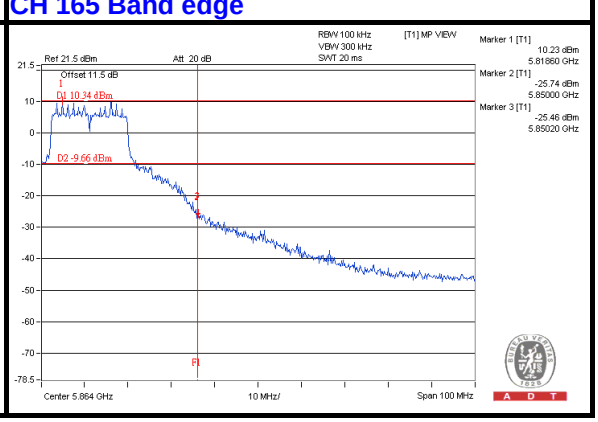




CH 149 Band edge

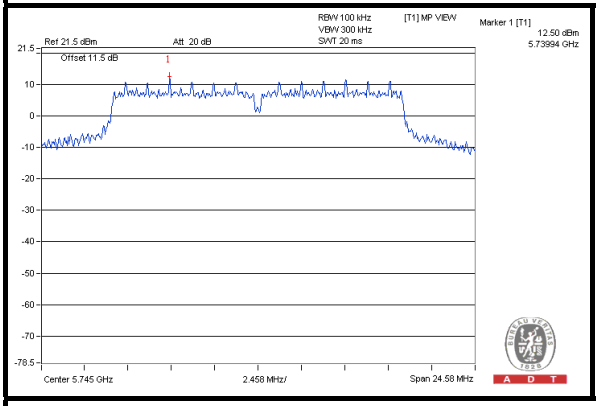


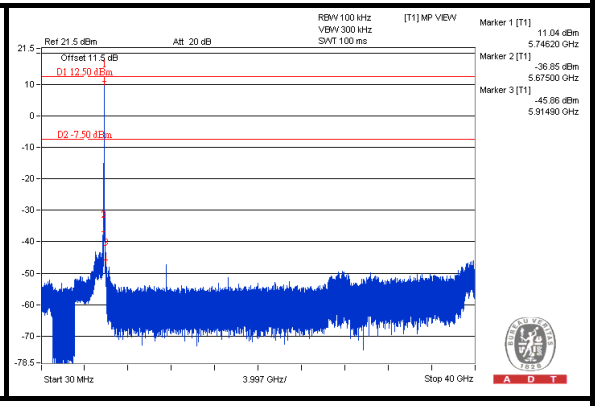
CH 165 Band edge



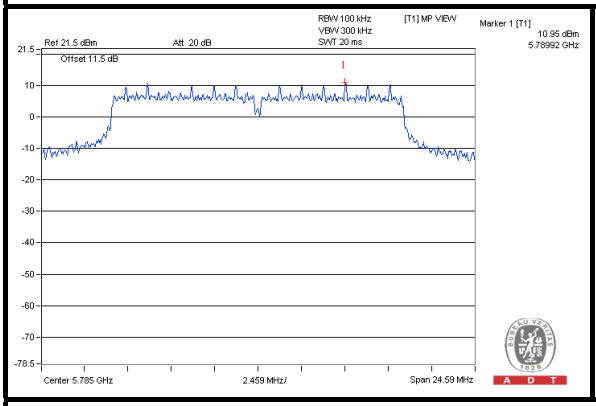
CHAIN 1

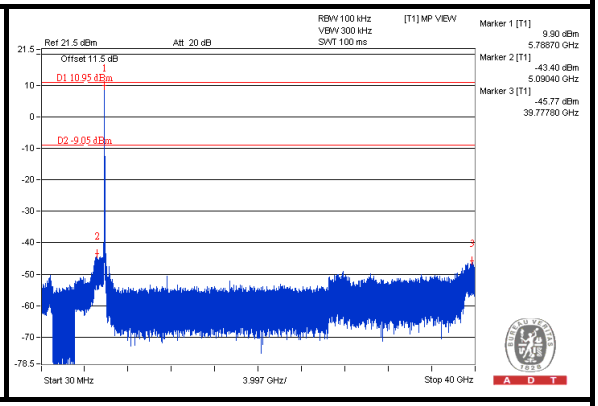
CH 149



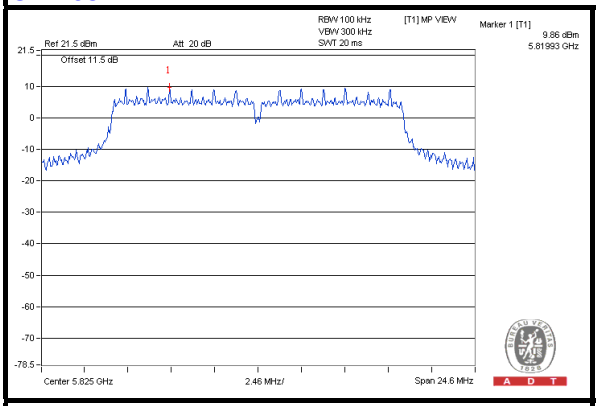


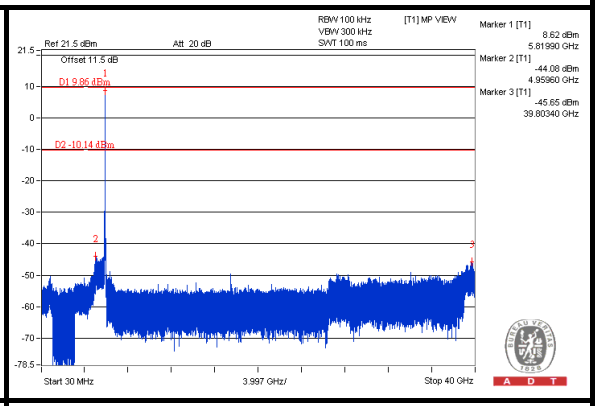
CH 157



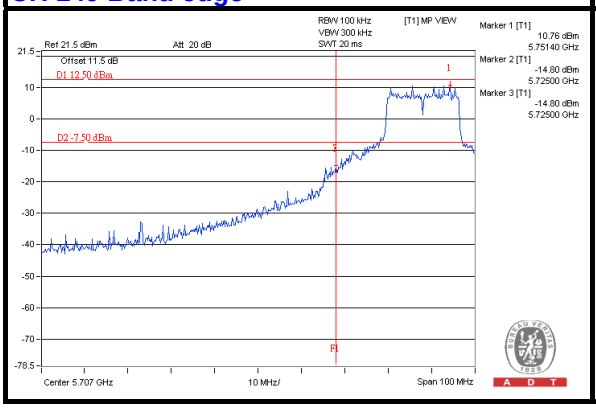


CH 165

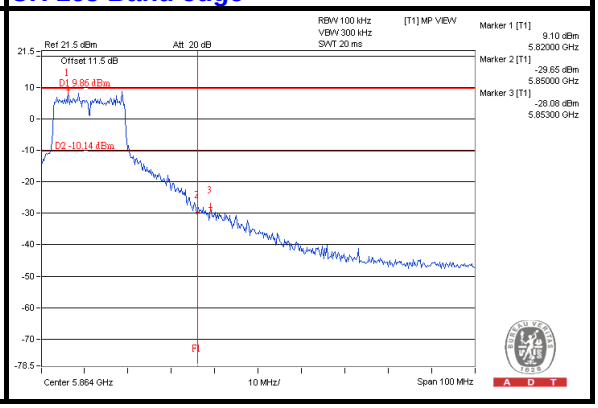




CH 149 Band edge



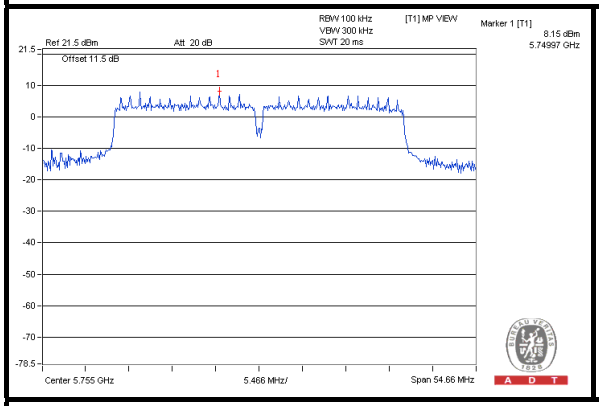
CH 165 Band edge

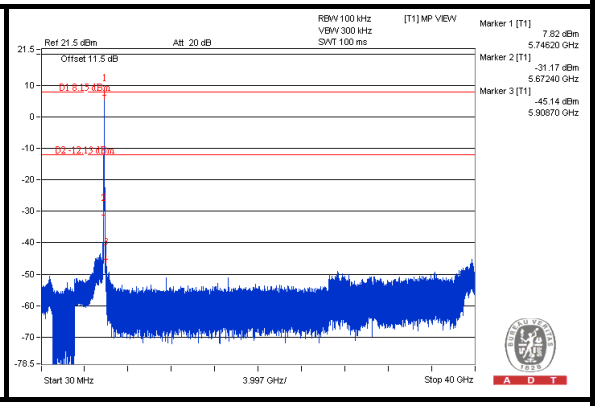


802.11n (40MHz)

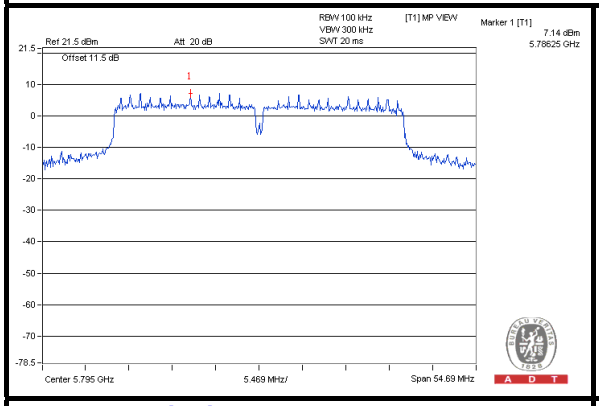
CHAIN 0

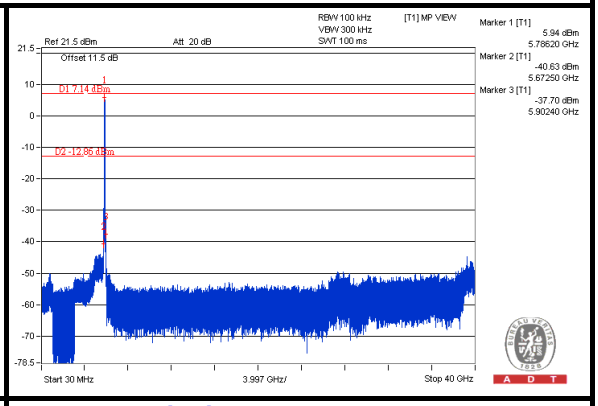
CH 151



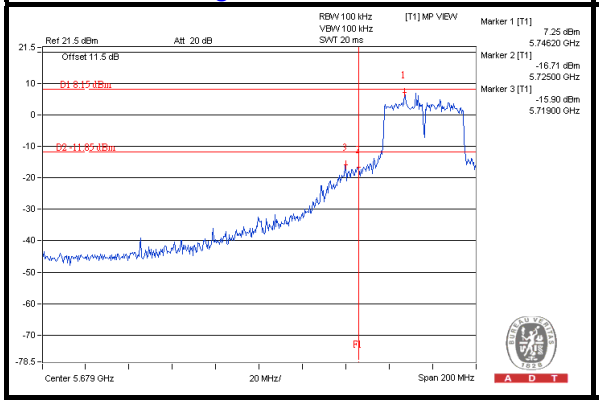


CH 159

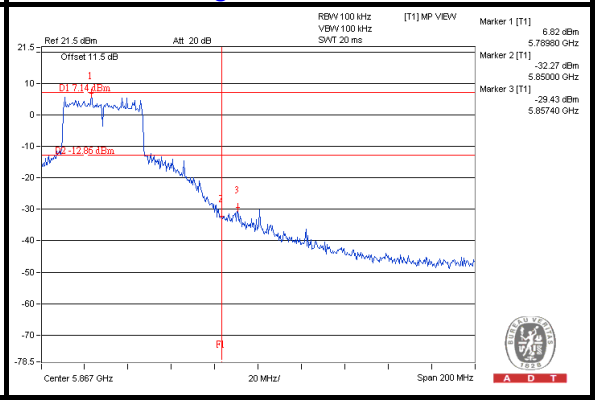




CH 151 Band edge

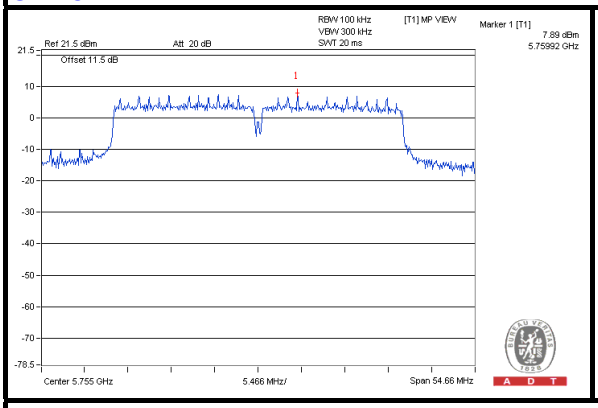


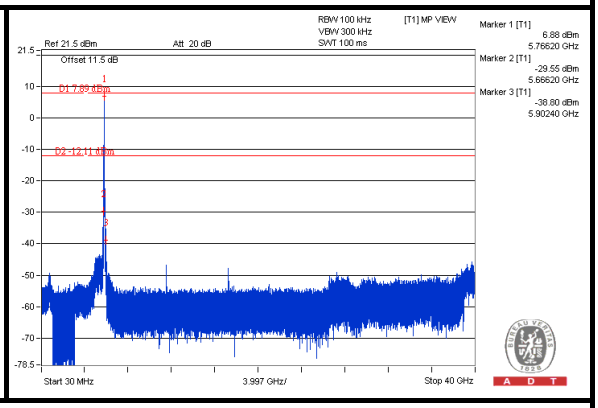
CH 159 Band edge



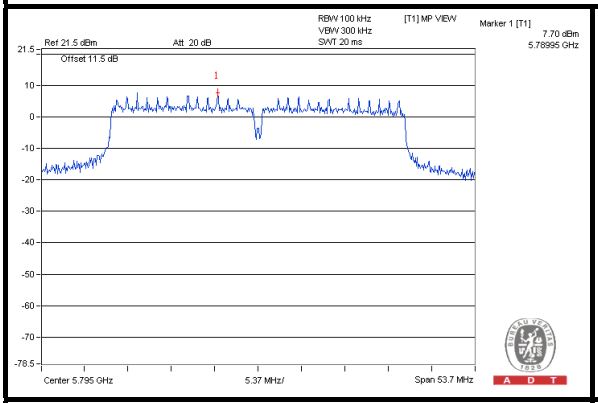
CHAIN 1

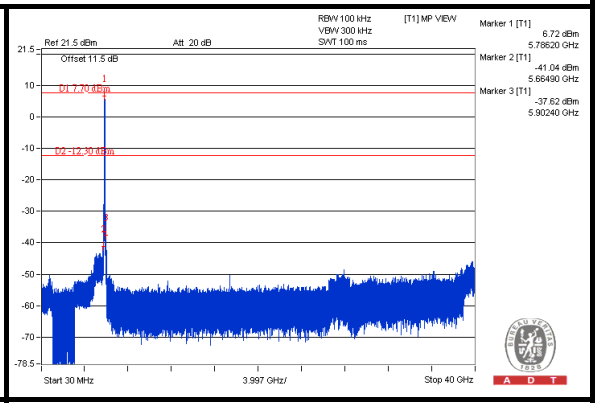
CH 151



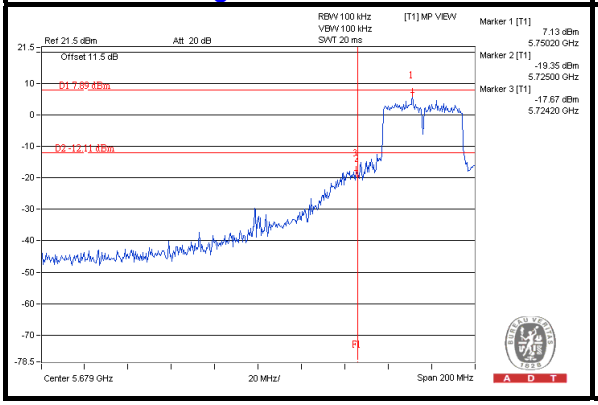


CH 159

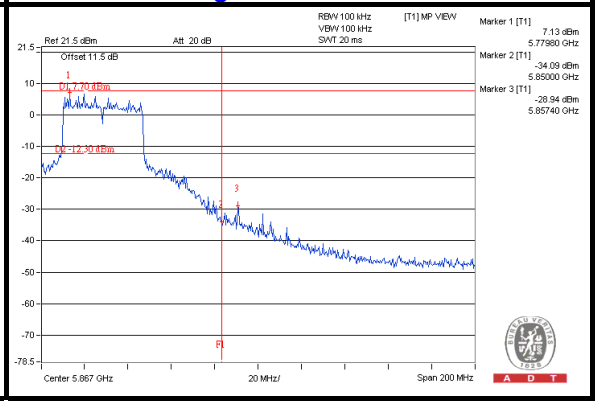




CH 151 Band edge



CH 159 Band edge

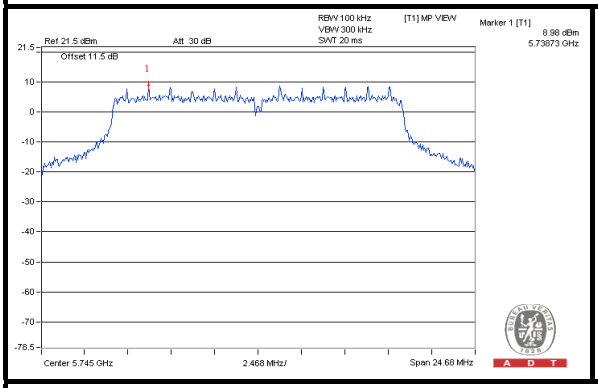


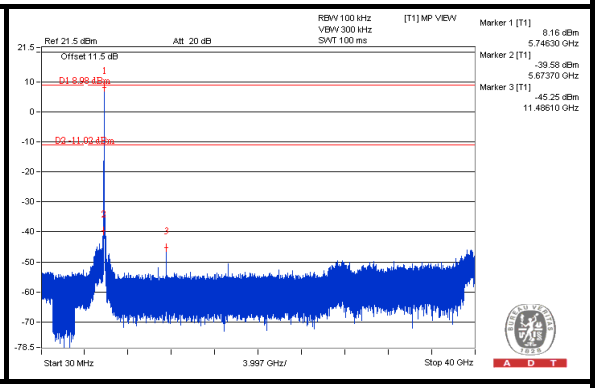
TEST MODE C1

802.11a

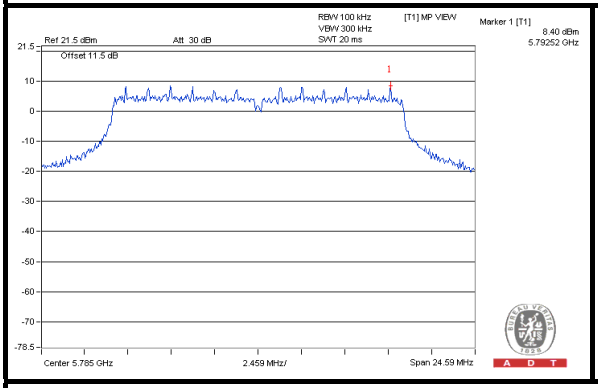
CHAIN 0

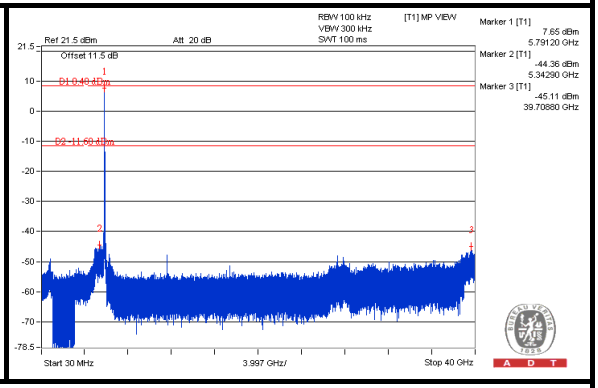
CH 149



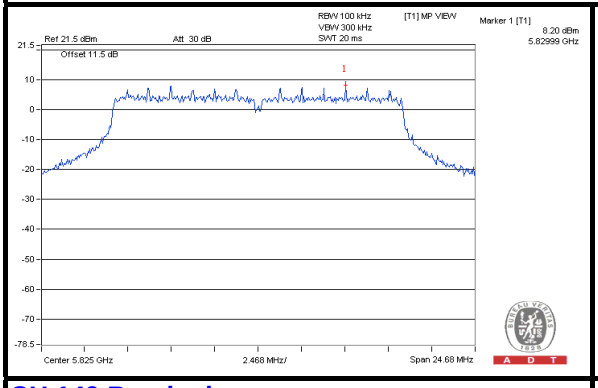


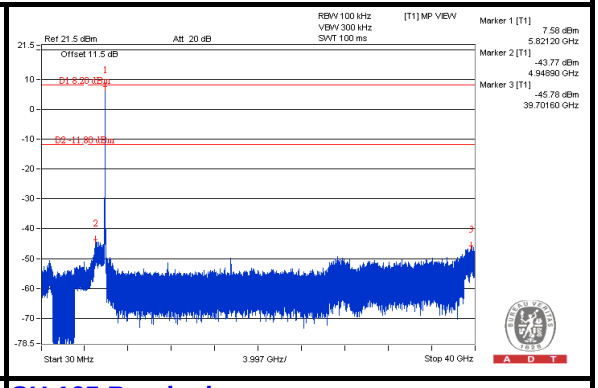
CH 157



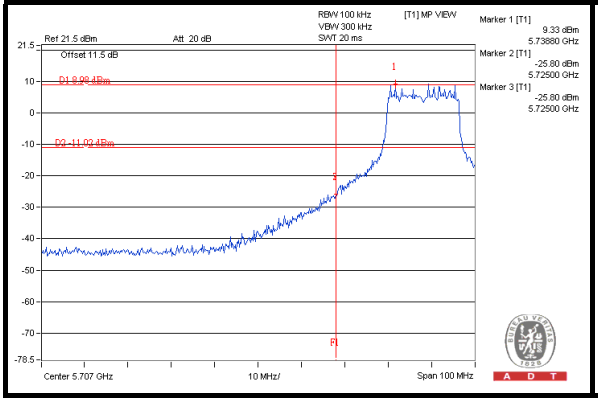


CH 165

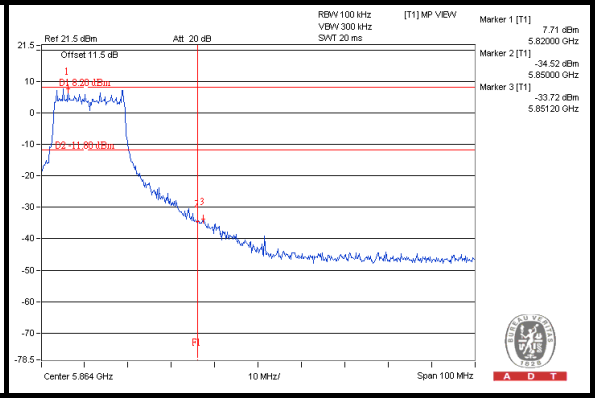




CH 149 Band edge

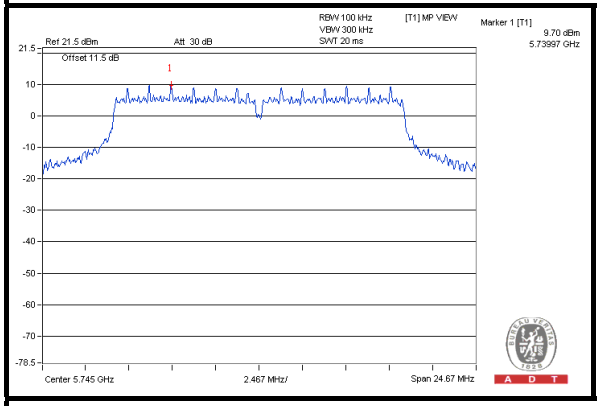


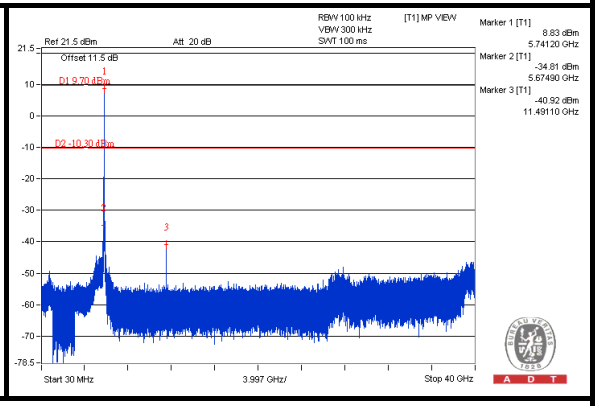
CH 165 Band edge



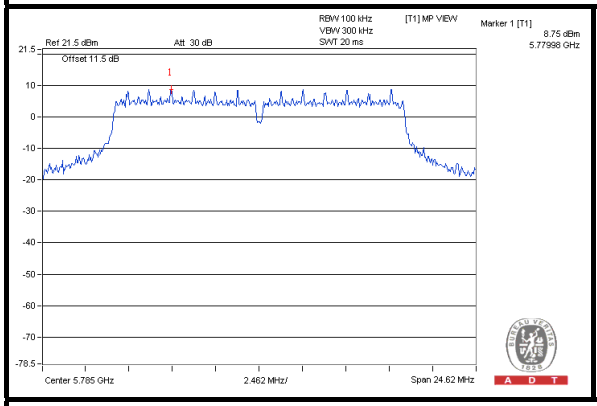
CHAIN 1

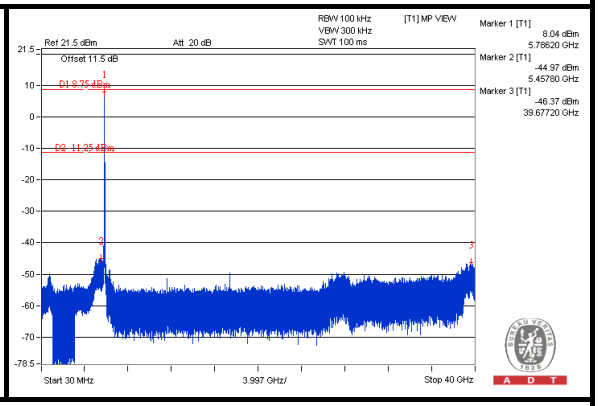
CH 149



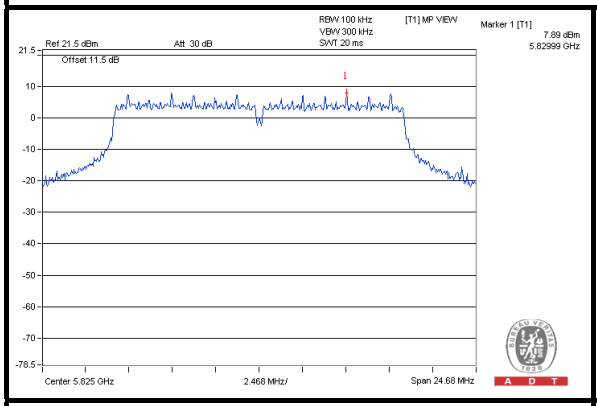


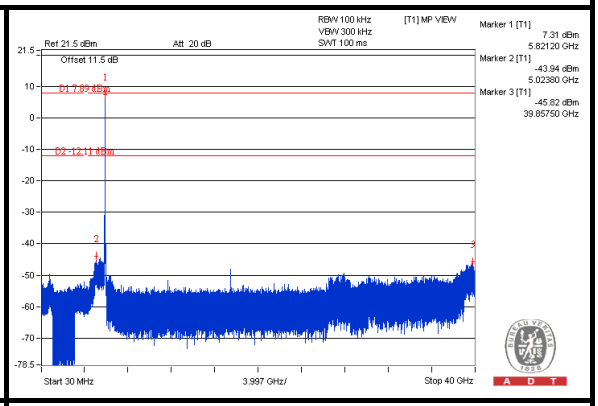
CH 157



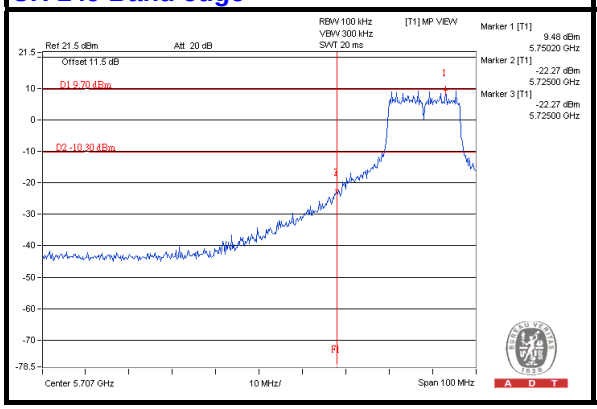


CH 165

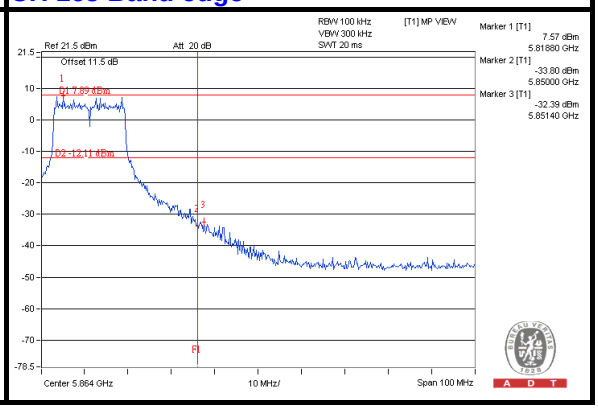




CH 149 Band edge



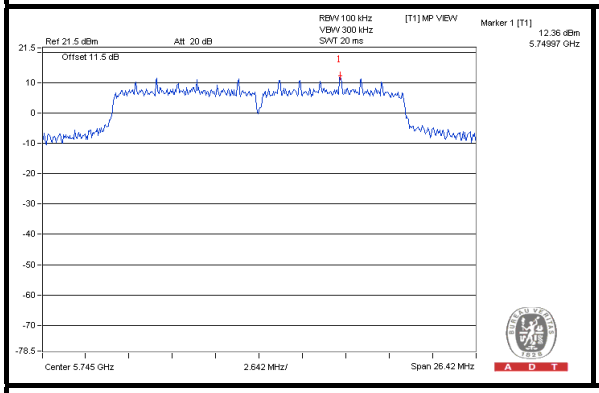
CH 165 Band edge

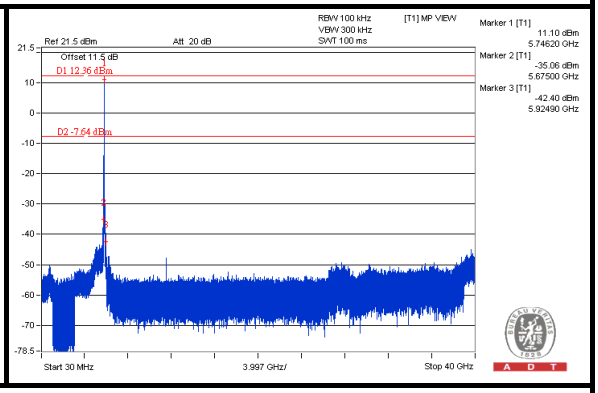


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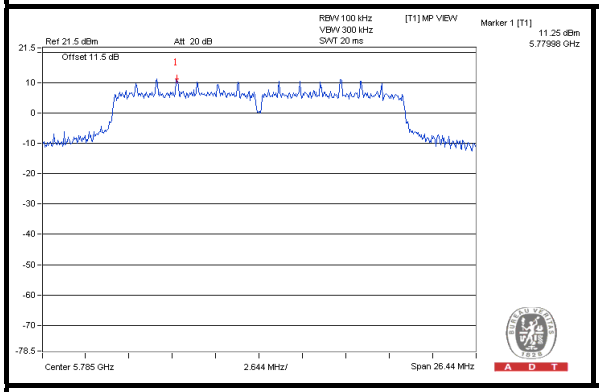
CHAIN 0

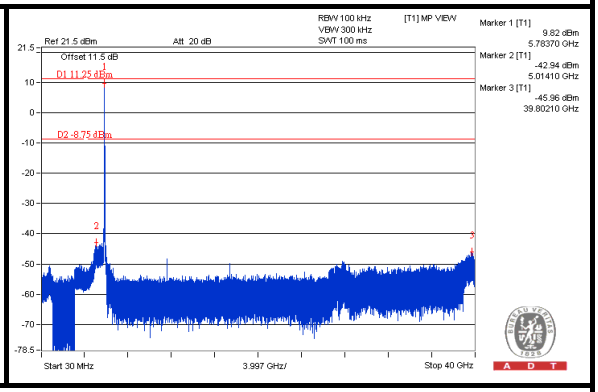
CH 149



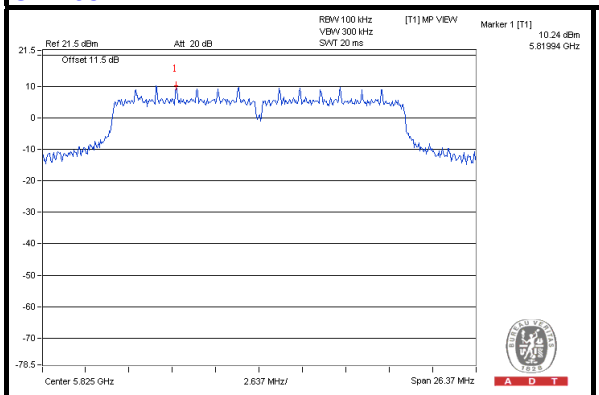


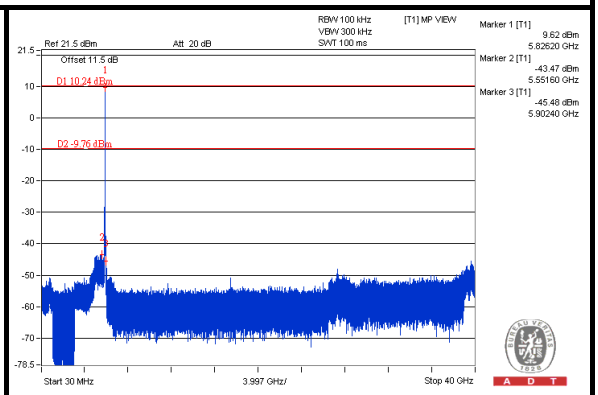
CH 157



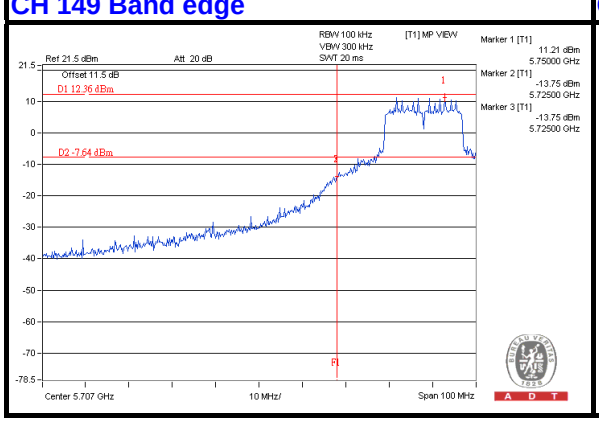


CH 165

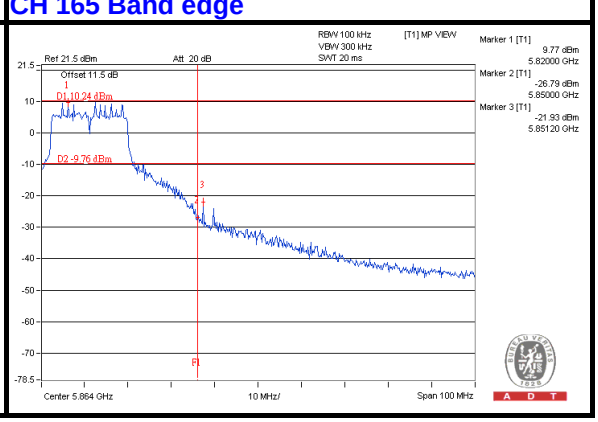




CH 149 Band edge

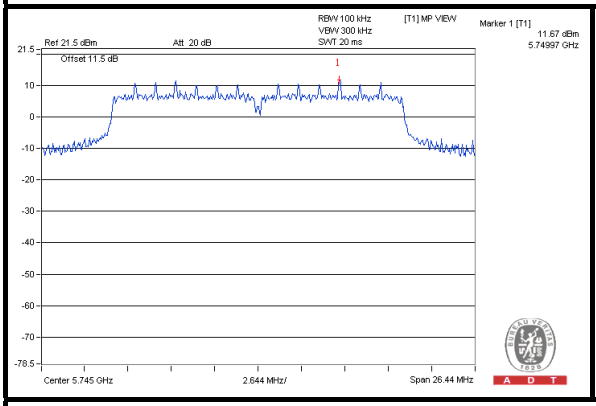


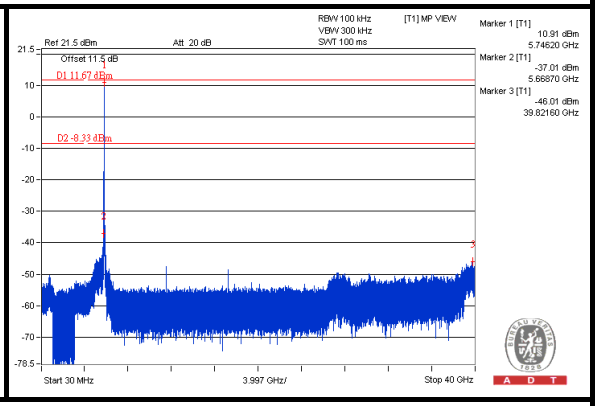
CH 165 Band edge



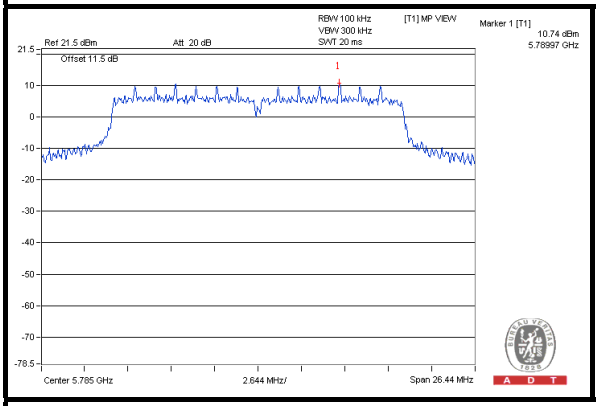
CHAIN 1

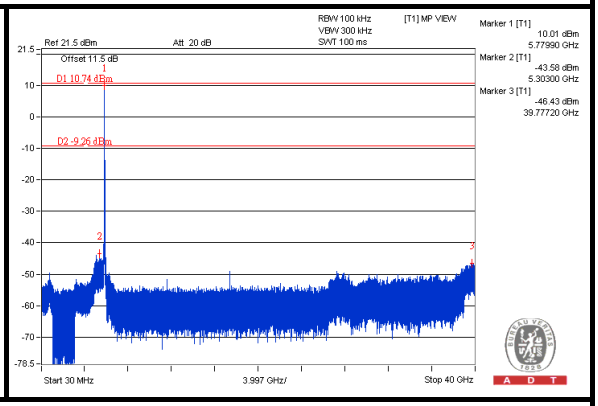
CH 149



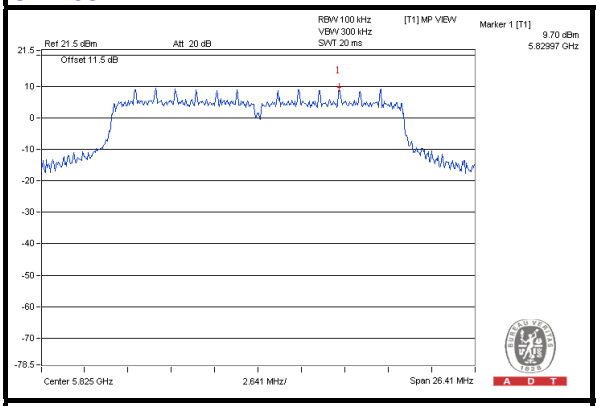


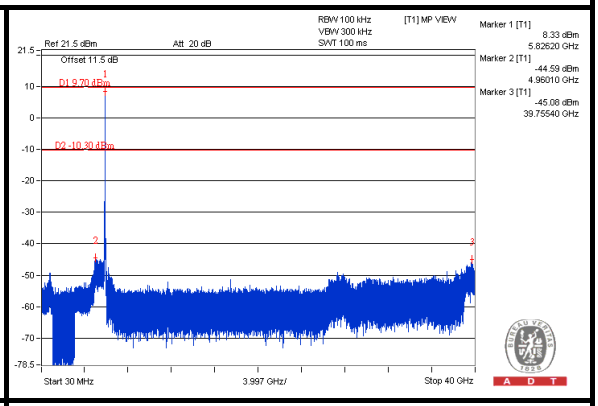
CH 157



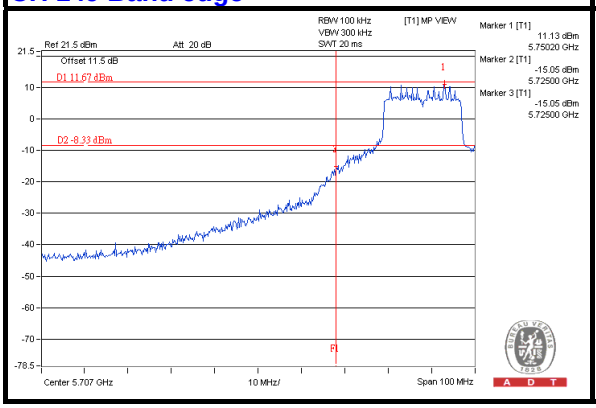


CH 165

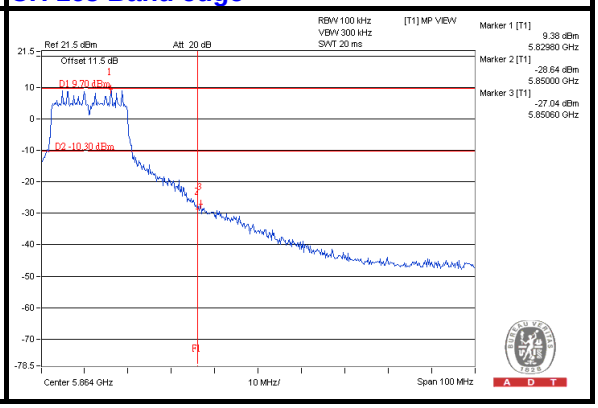




CH 149 Band edge



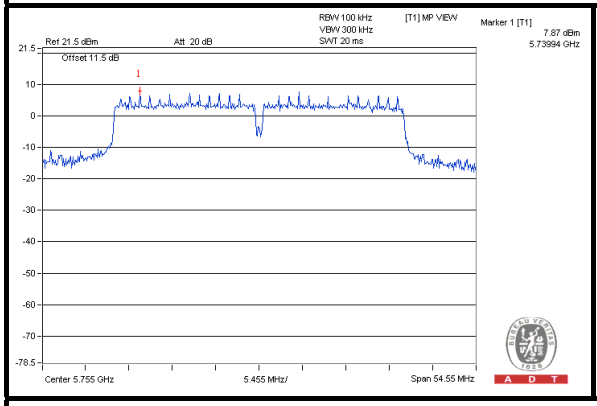
CH 165 Band edge

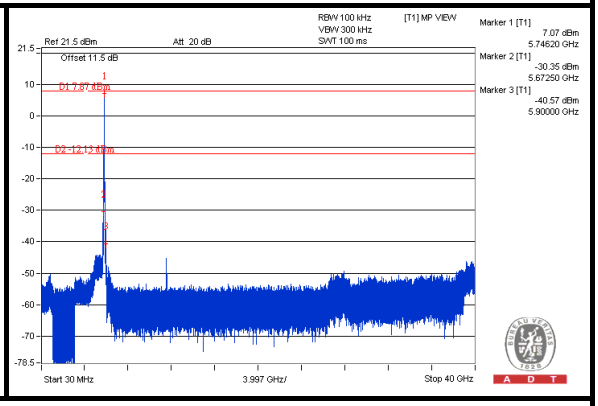


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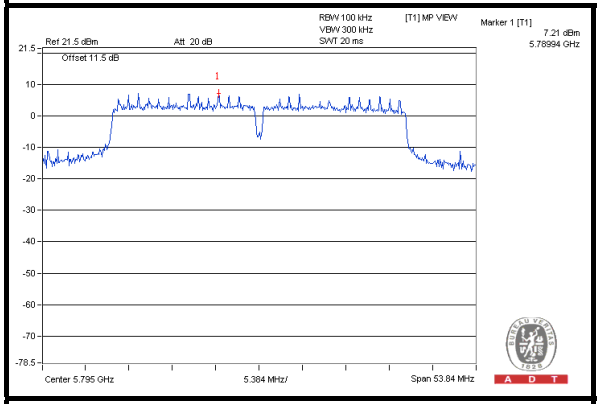
CHAIN 0

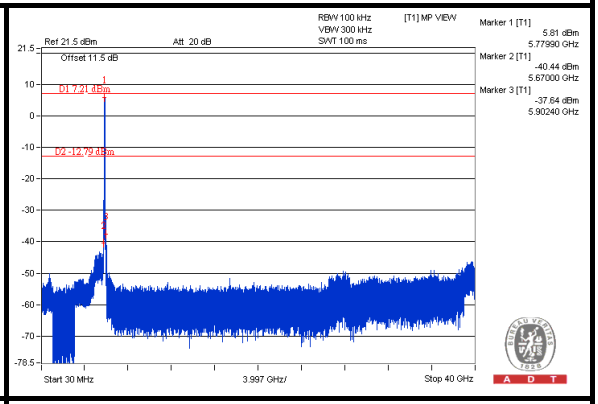
CH 151



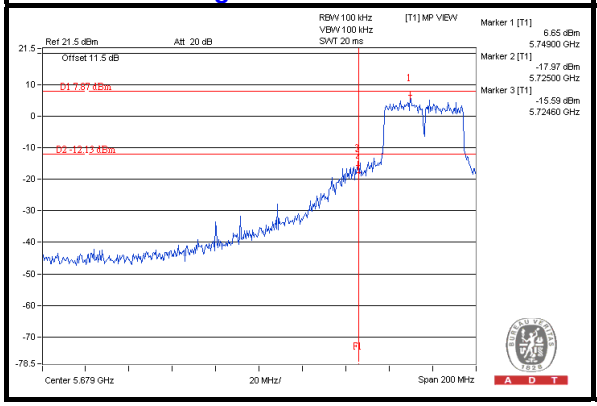


CH 159

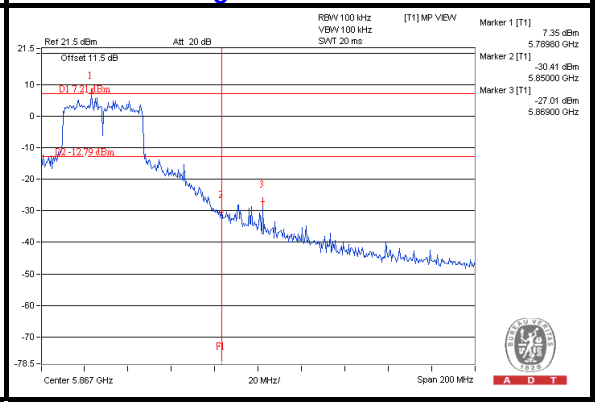




CH 151 Band edge

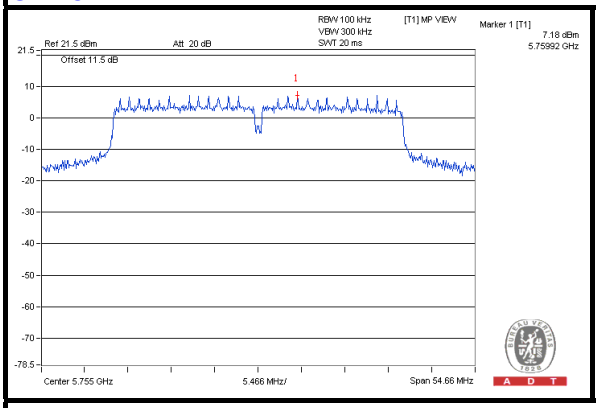


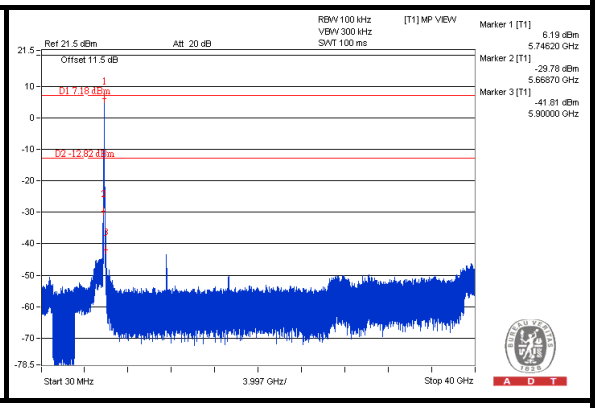
CH 159 Band edge



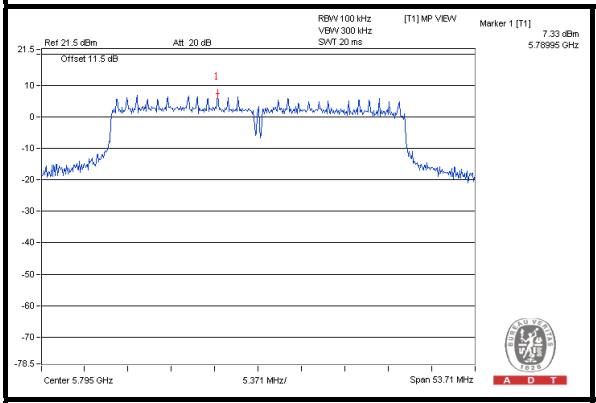
CHAIN 1

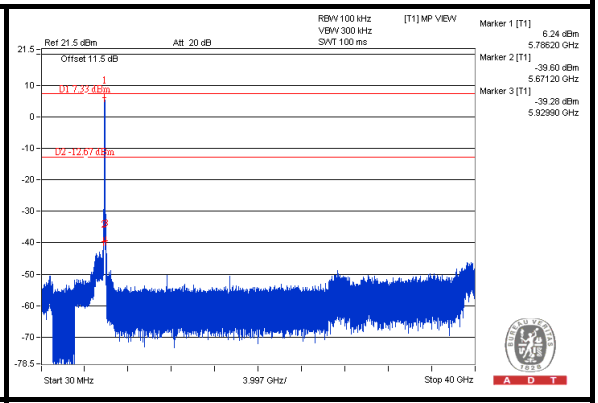
CH 151



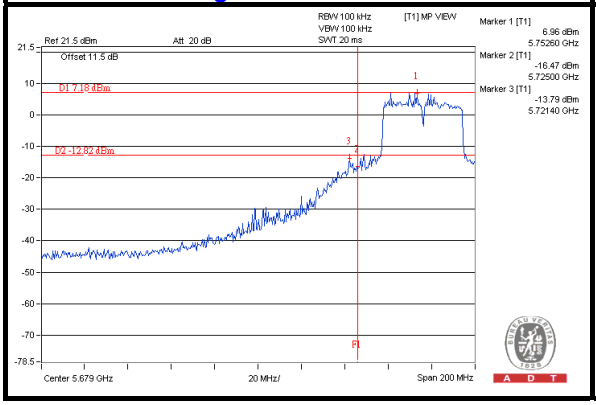


CH 159

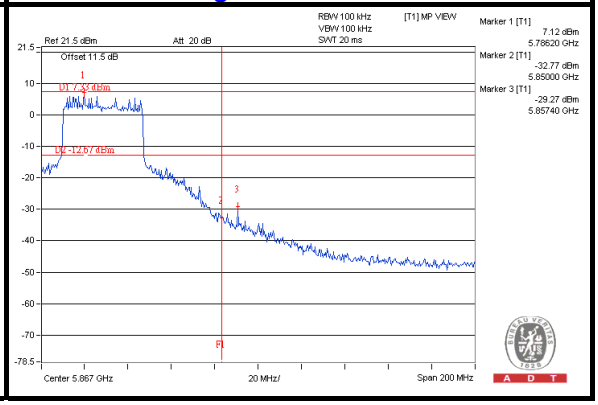




CH 151 Band edge



CH 159 Band edge

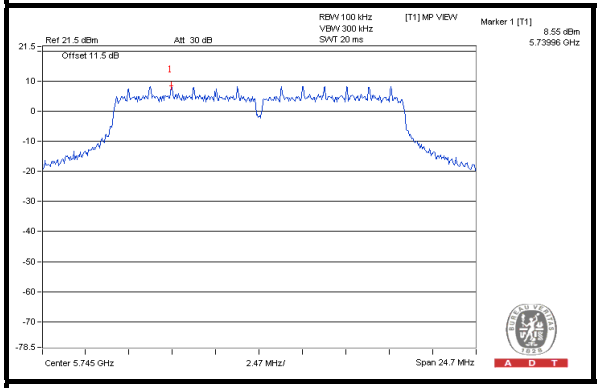


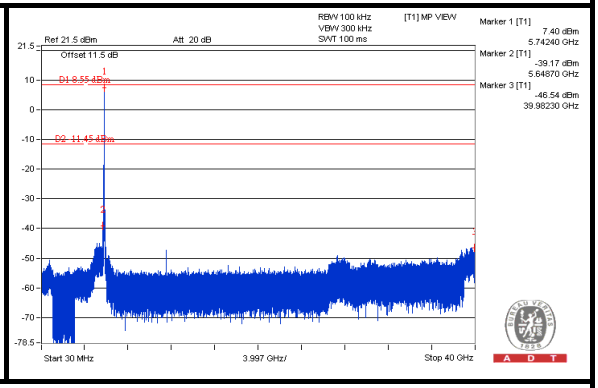
TEST MODE C2

802.11a

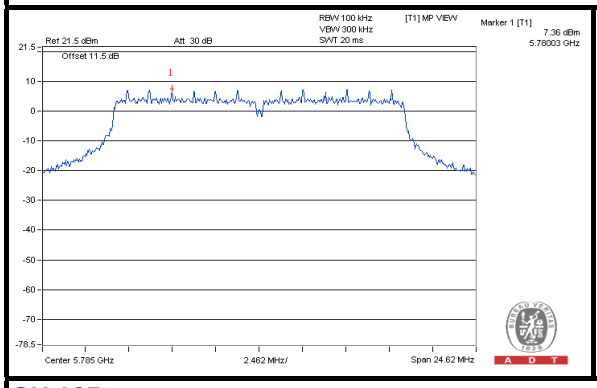
CHAIN 0

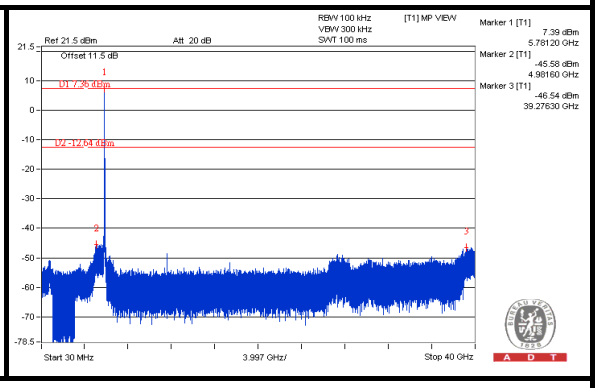
CH 149



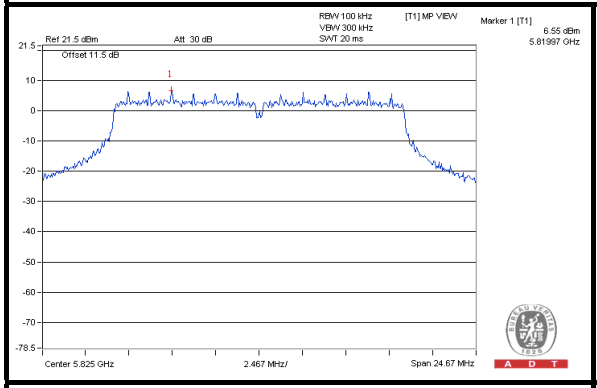


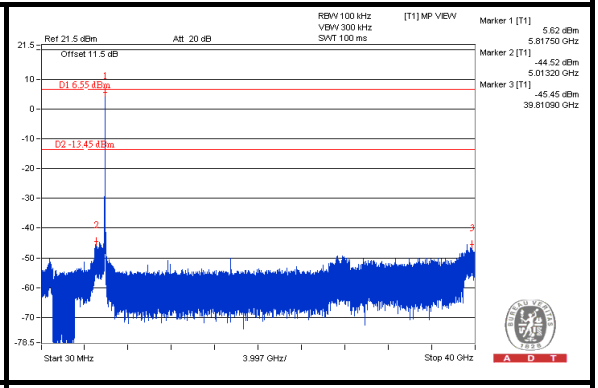
CH 157



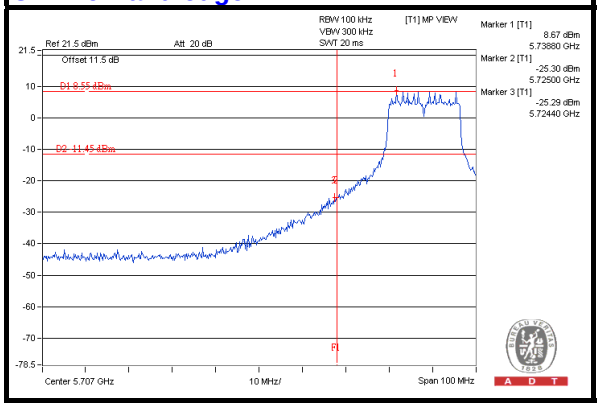


CH 165

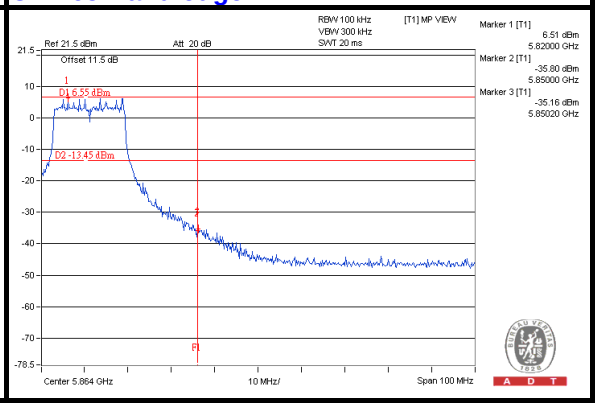




CH 149 Band edge

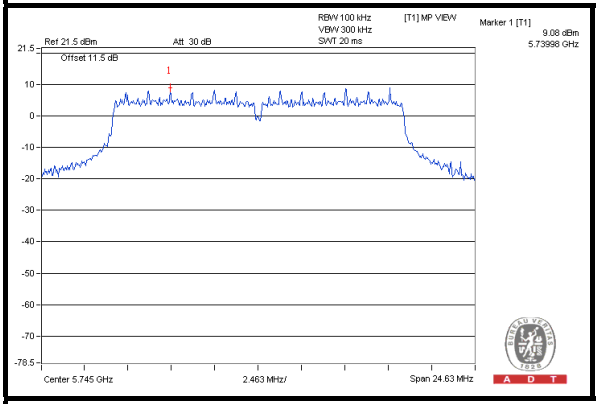


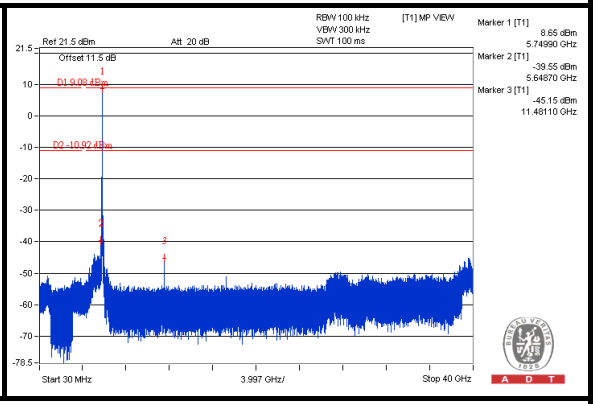
CH 165 Band edge



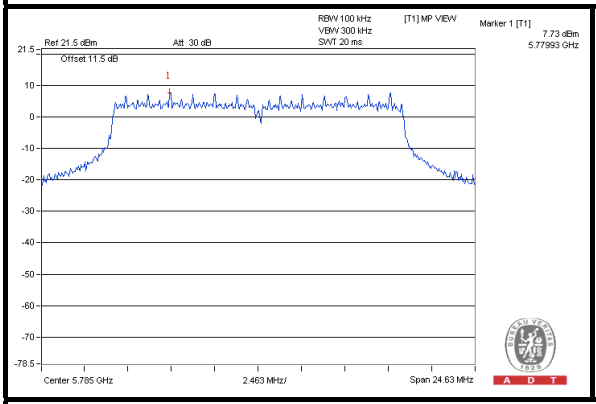
CHAIN 1

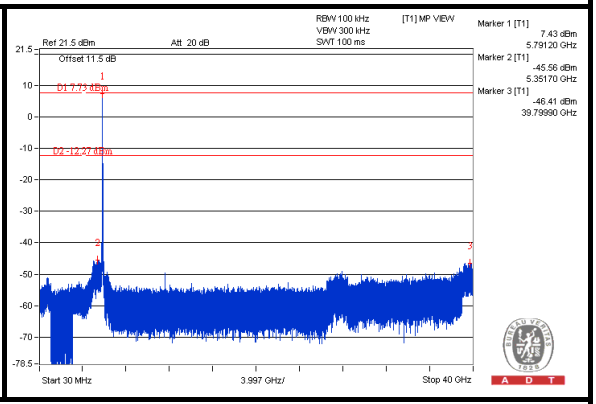
CH 149



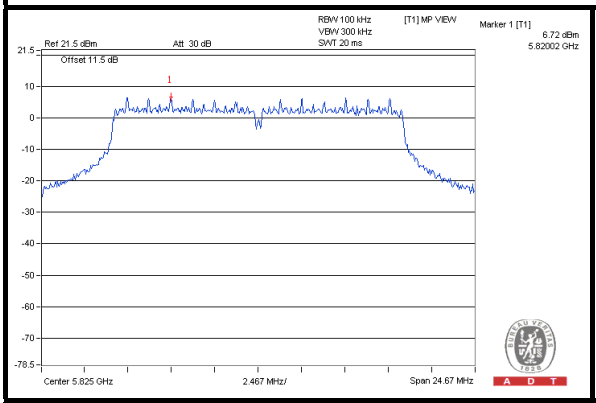


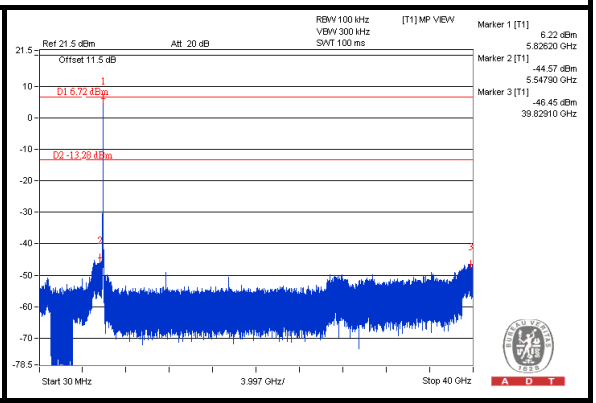
CH 157



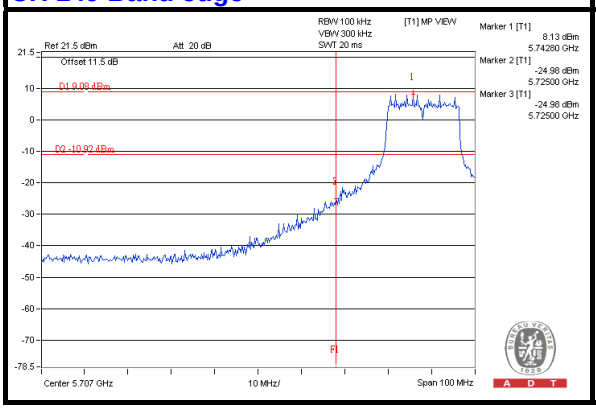


CH 165

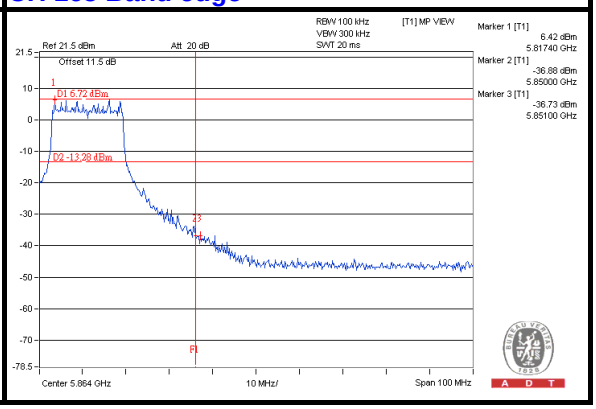




CH 149 Band edge

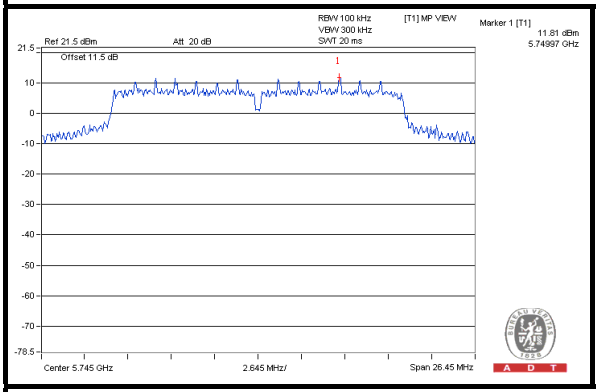


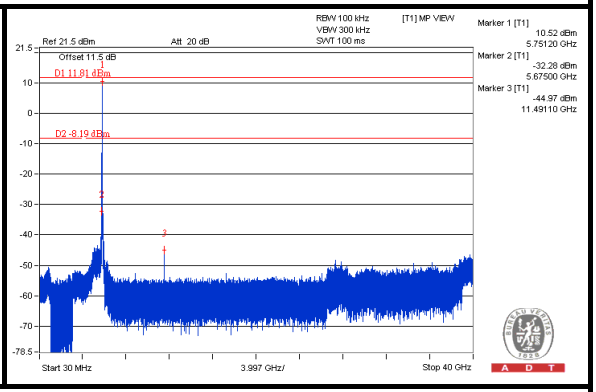
CH 165 Band edge



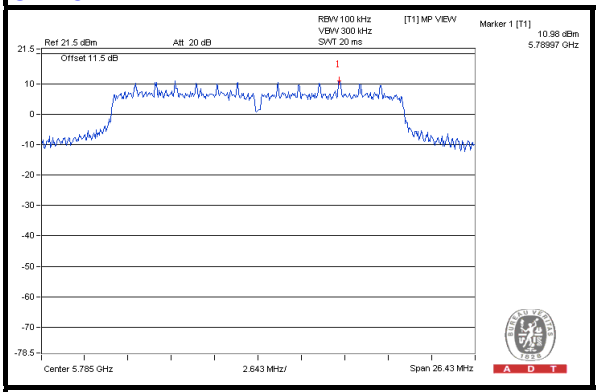
802.11n (20MHz)
CHAIN 0

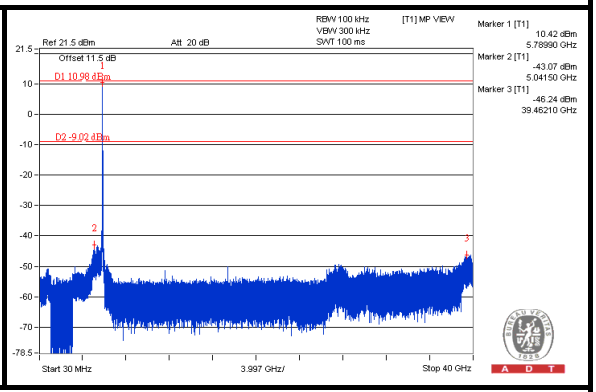
CH 149



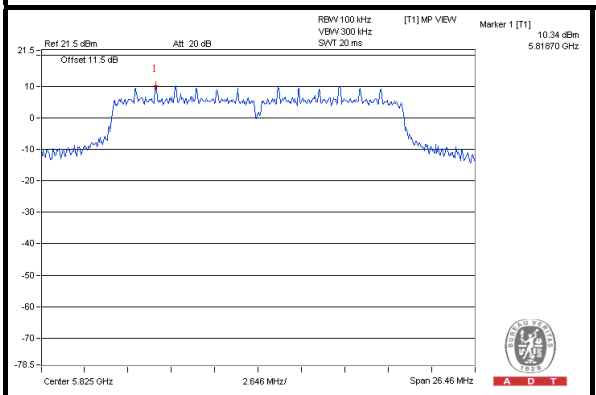


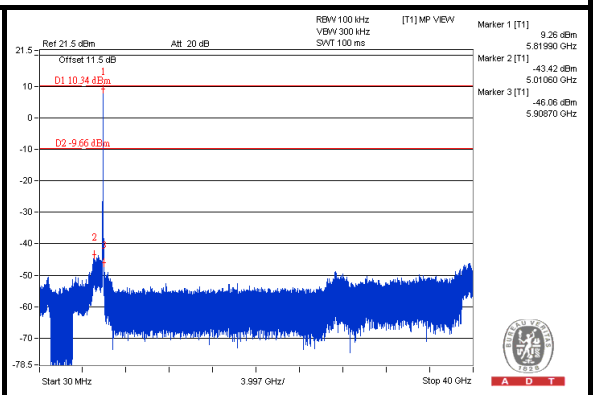
CH 157



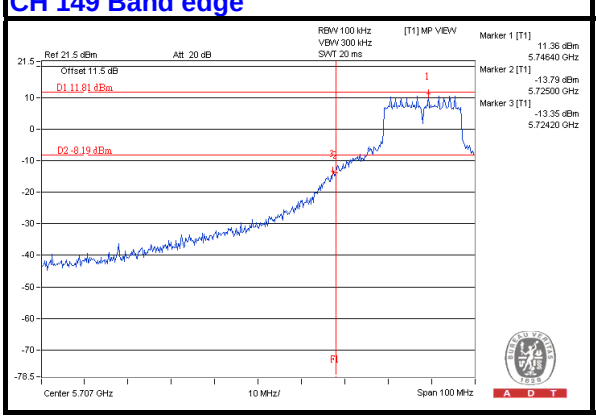


CH 165

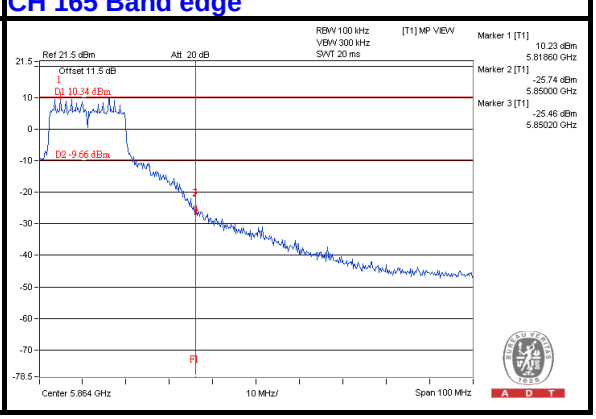




CH 149 Band edge

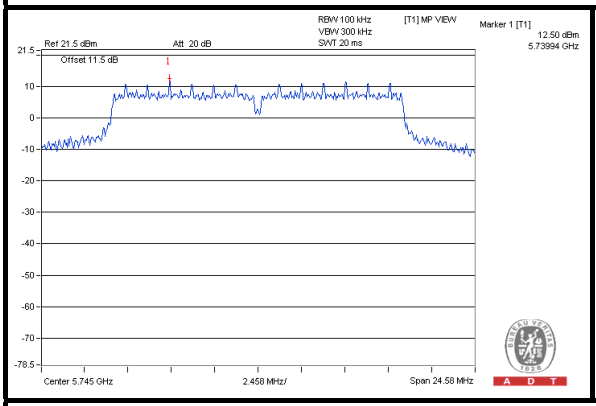


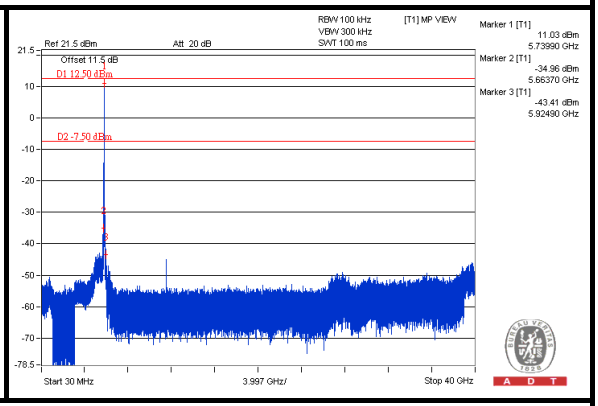
CH 165 Band edge



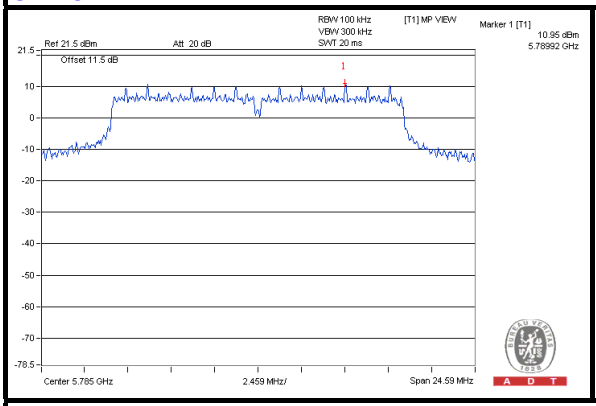
CHAIN 1

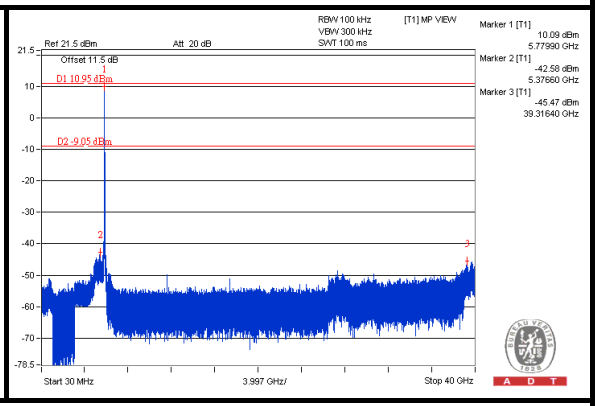
CH 149



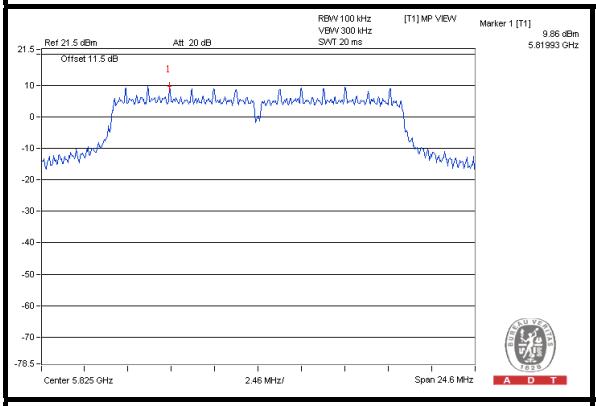


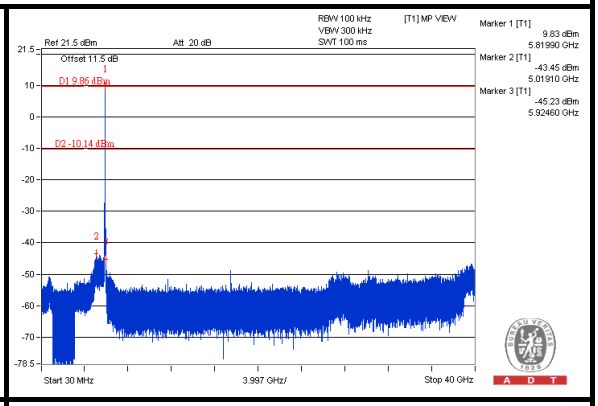
CH 157



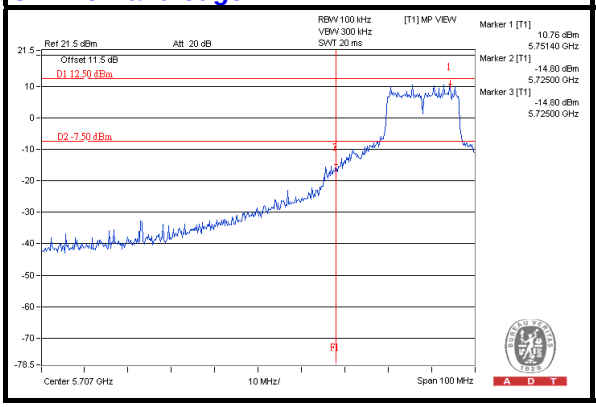


CH 165

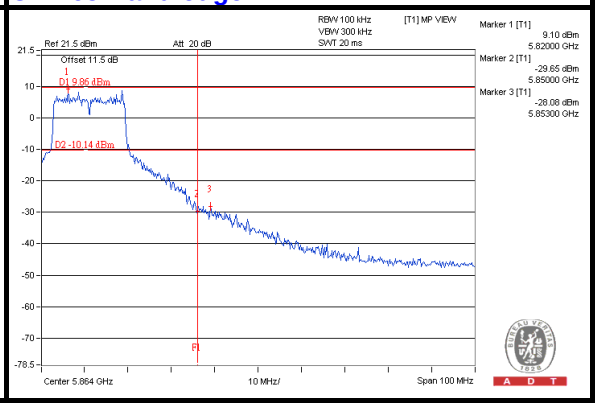




CH 149 Band edge



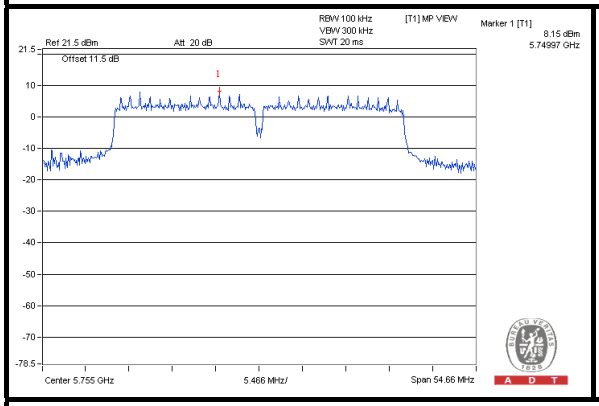
CH 165 Band edge

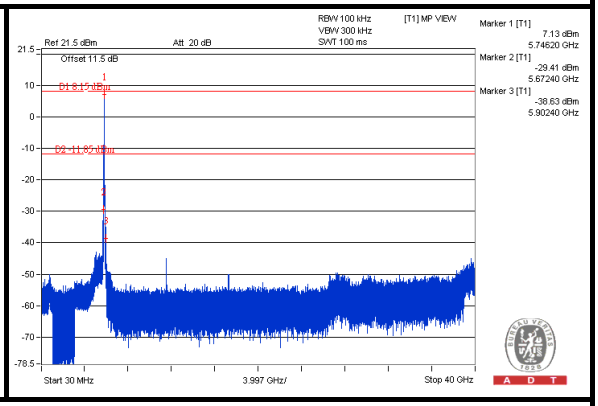


802.11n (40MHz)

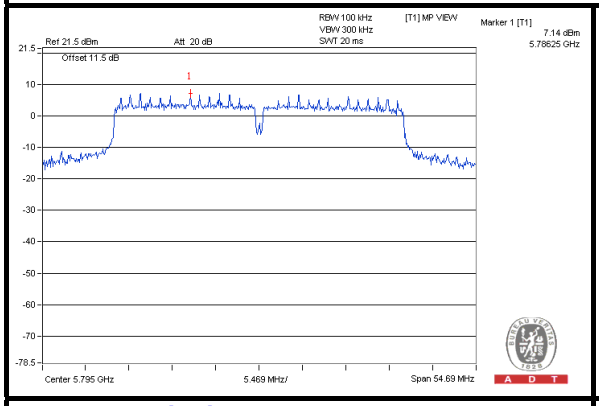
CHAIN 0

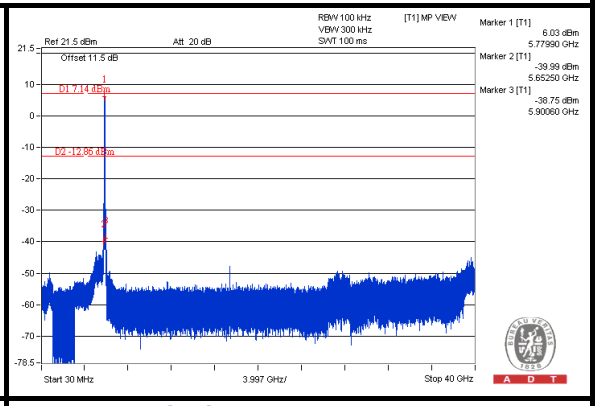
CH 151



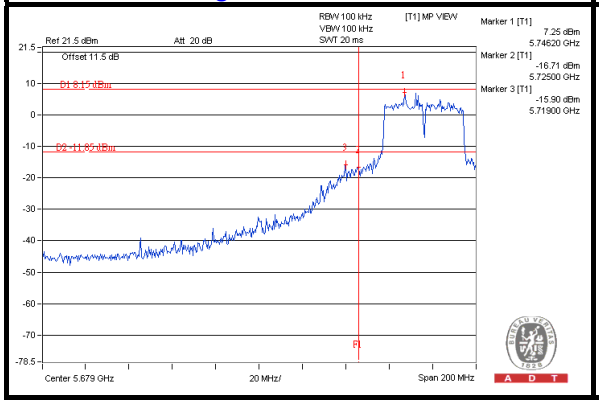


CH 159

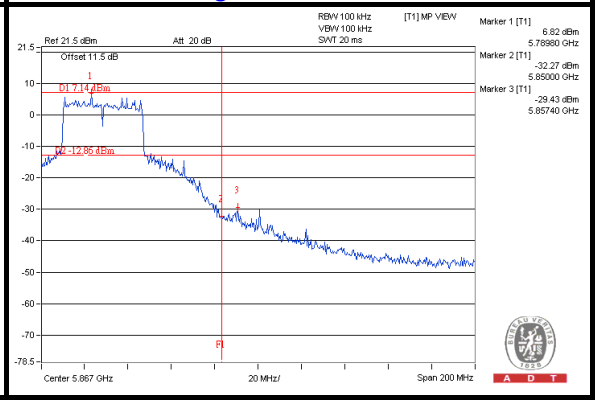




CH 151 Band edge

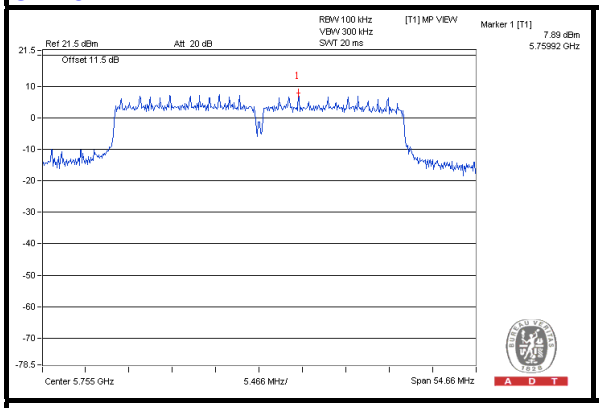


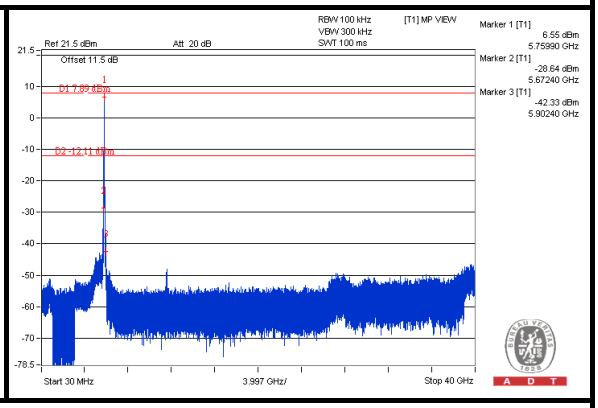
CH 159 Band edge



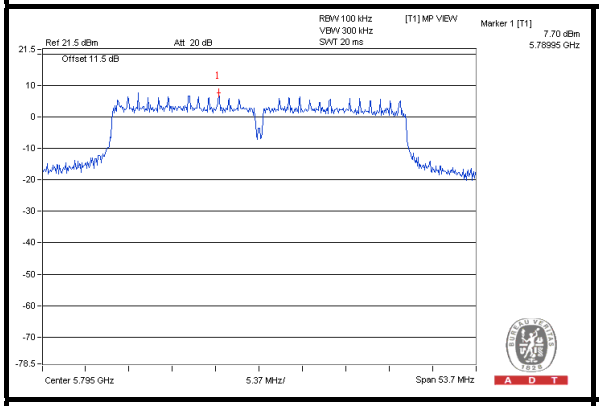
CHAIN 1

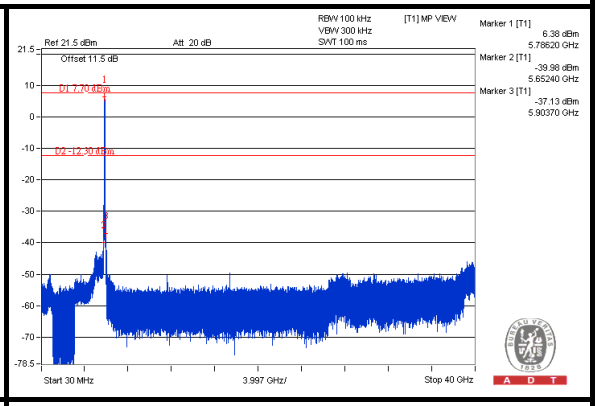
CH 151



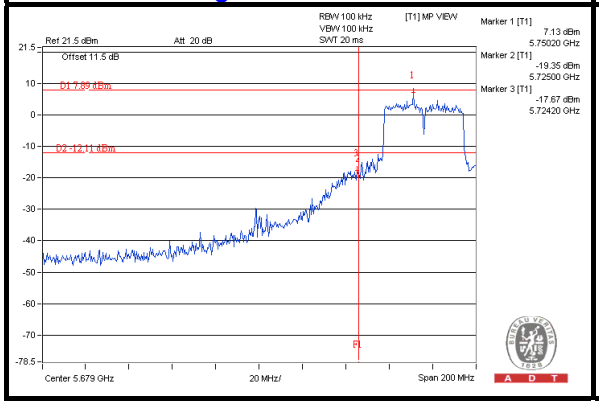


CH 159

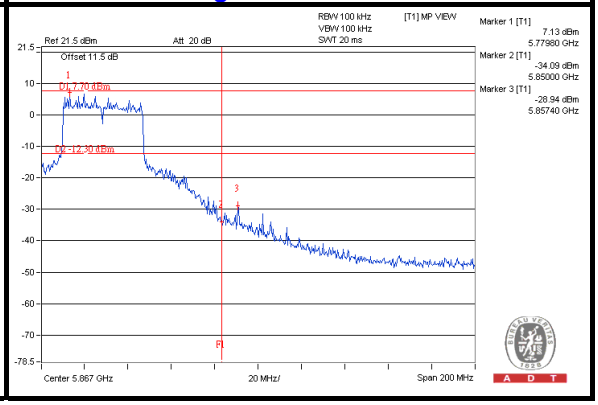




CH 151 Band edge



CH 159 Band edge



6. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

7. INFORMATION ON THE TESTING LABORATORIES

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

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

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

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

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

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

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

8. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

---END---