



# FCC TEST REPORT

**REPORT NO.:** RF990622C09E  
**MODEL NO.:** MRLBB-1003  
**FCC ID:** RTP-MRLBB1003  
**RECEIVED:** Jun. 22, 2010  
**TESTED:** Oct. 23 ~ Dec. 30, 2010  
**ISSUED:** Feb. 17, 2011

**APPLICANT:** Hewlett-Packard Co

**ADDRESS:** 200 Forest Street, Marlborough, MA  
01752-3085, United States

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

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou  
Hsiang, Taipei Hsien 244, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan,  
R.O.C.

This test report consists of 407 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product, certification, approval, or endorsement by TAF or any government agency. The test results in the report only apply to the tested sample.



## TABLE OF CONTENTS

RELEASE CONTROL RECORD.....	5
1. CERTIFICATION.....	6
2. SUMMARY OF TEST RESULTS .....	7
2.1 MEASUREMENT UNCERTAINTY.....	7
3. GENERAL INFORMATION.....	8
3.1 GENERAL DESCRIPTION OF EUT .....	8
3.2 DESCRIPTION OF TEST MODES .....	10
3.2.1 CONFIGURATION OF SYSTEM UNDER TEST .....	10
3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL .....	11
3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS .....	15
3.4 DESCRIPTION OF SUPPORT UNITS .....	15
4. TEST TYPES AND RESULTS .....	16
4.1 RADIATED EMISSION MEASUREMENT .....	16
4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT .....	16
4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS .....	16
4.1.3 TEST INSTRUMENTS.....	17
4.1.4 TEST PROCEDURES .....	18
4.1.5 DEVIATION FROM TEST STANDARD.....	18
4.1.6 TEST SETUP .....	19
4.1.7 EUT OPERATING CONDITION.....	19
4.1.8 TEST RESULTS (A1).....	20
4.1.9 TEST RESULTS (A2).....	40
4.1.10 TEST RESULTS (B1).....	60
4.1.11 TEST RESULTS (B2).....	80
4.1.12 TEST RESULTS (C1) .....	100
4.1.13 TEST RESULTS (C2) .....	120
4.2 CONDUCTED EMISSION MEASUREMENT .....	140
4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT .....	140
4.2.2 TEST INSTRUMENTS.....	140
4.2.3 TEST PROCEDURES .....	141
4.2.4 DEVIATION FROM TEST STANDARD.....	141
4.2.5 TEST SETUP .....	142
4.2.6 EUT OPERATING CONDITIONS .....	142
4.2.7 TEST RESULTS (A1).....	143
4.2.8 TEST RESULTS (A2).....	147
4.2.9 TEST RESULTS (B1).....	151
4.2.10 TEST RESULTS (B2).....	155
4.2.11 TEST RESULTS (C1) .....	159



4.2.12 TEST RESULTS (C2) .....	163
4.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT .....	167
4.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT.....	167
4.3.2 TEST INSTRUMENTS.....	167
4.3.3 TEST PROCEDURE.....	168
4.3.4 DEVIATION FROM TEST STANDARD.....	168
4.3.5 TEST SETUP .....	168
4.3.6 EUT OPERATING CONDITIONS .....	168
4.3.7 TEST RESULTS (A1).....	169
4.3.8 TEST RESULTS (A2).....	171
4.3.9 TEST RESULTS (B1).....	173
4.3.10 TEST RESULTS (B2).....	175
4.3.11 TEST RESULTS (C1) .....	177
4.3.12 TEST RESULTS (C2) .....	179
4.3.13 TEST RESULTS (A1).....	181
4.3.14 TEST RESULTS (A2).....	184
4.3.15 TEST RESULTS (B1).....	187
4.3.16 TEST RESULTS (B2).....	190
4.3.17 TEST RESULTS (C1) .....	193
4.3.18 TEST RESULTS (C2) .....	196
4.4 PEAK POWER EXCURSION MEASUREMENT .....	199
4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT .....	199
4.4.2 TEST INSTRUMENTS.....	199
4.4.3 TEST PROCEDURE.....	199
4.4.4 DEVIATION FROM TEST STANDARD.....	200
4.4.5 TEST SETUP .....	200
4.4.6 EUT OPERATING CONDITIONS .....	200
4.4.7 TEST RESULTS (A1).....	201
4.4.8 TEST RESULTS (A2).....	207
4.4.9 TEST RESULTS (B1).....	213
4.4.10 TEST RESULTS (B2).....	219
4.4.11 TEST RESULTS (C1) .....	225
4.4.12 TEST RESULTS (C2) .....	231
4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT .....	237
4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT .....	237
4.5.2 TEST INSTRUMENTS.....	237
4.5.3 TEST PROCEDURES .....	237
4.5.4 DEVIATION FROM TEST STANDARD.....	238
4.5.5 TEST SETUP .....	238
4.5.6 EUT OPERATING CONDITIONS .....	238
4.5.7 TEST RESULTS (A1).....	239



A D T

4.5.8	TEST RESULTS (A2).....	242
4.5.9	TEST RESULTS (B1).....	245
4.5.10	TEST RESULTS (B2).....	248
4.5.11	TEST RESULTS (C1) .....	251
4.5.12	TEST RESULTS (C2) .....	254
4.6	FREQUENCY STABILITY.....	257
4.6.1	LIMITS OF FREQUENCY STABILITY MEASUREMENT .....	257
4.6.2	TEST INSTRUMENTS.....	257
4.6.3	TEST PROCEDURE.....	257
4.6.4	DEVIATION FROM TEST STANDARD.....	258
4.6.5	TEST SETUP.....	258
4.6.6	EUT OPERATING CONDITION.....	258
4.6.7	TEST RESULTS (A1).....	259
4.6.8	TEST RESULTS (A2).....	260
4.6.9	TEST RESULTS (B1).....	261
4.6.10	TEST RESULTS (B2).....	262
4.6.11	TEST RESULTS (C1) .....	263
4.6.12	TEST RESULTS (C2) .....	264
4.7	BAND EDGES MEASUREMENT .....	265
4.7.1	TEST INSTRUMENTS.....	265
4.7.2	TEST PROCEDURE.....	266
4.7.3	EUT OPERATING CONDITION.....	266
4.7.4	TEST RESULTS (A1).....	267
4.7.5	TEST RESULTS (A2).....	290
4.7.6	TEST RESULTS (B1).....	313
4.7.7	TEST RESULTS (B2).....	336
4.7.8	TEST RESULTS (C1) .....	359
4.7.9	TEST RESULTS (C2) .....	382
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	405
6.	INFORMATION ON THE TESTING LABORATORIES .....	406
7.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	407



A D T

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Feb. 17, 2011



# 1. CERTIFICATION

**PRODUCT:** 802.11n Radio Module

**MODEL:** MRLBB-1003

**BRAND:** HP

**APPLICANT:** Hewlett-Packard Co

**TEST SAMPLE:** ENGINEERING SAMPLE

**TESTED:** Oct. 23 ~ Dec. 30, 2010

**STANDARDS: FCC Part 15, Subpart E (Section 15.407)**

ANSI C63.4-2003

ANSI C63.10-2009

The above equipment (Model: MRLBB-1003) 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 : Ivy Lin , DATE: Feb. 17, 2011  
Ivy Lin / Specialist

APPROVED BY : Gary Chang , DATE: Feb. 17, 2011  
Gary Chang / Assistant Manager

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -8.95dB at 0.177MHz.
15.407(b)(1/2/3) (b)(5)	Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz	PASS	Meet the requirement of limit. Minimum passing margin is -1.0 dB at 5470.00MHz
15.407(a)(1/2/3)	Peak Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connectors are U.FL and Reverse SMA connectors.

### 2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.34 dB
	200MHz ~1000MHz	3.35 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

<b>EUT</b>	802.11n Radio Module
<b>MODEL NO.</b>	MRLBB-1003
<b>FCC ID</b>	RTP-MRLBB1003
<b>POWER SUPPLY</b>	3.3Vdc
<b>MODULATION TYPE</b>	64QAM, 16QAM, QPSK, BPSK
<b>MODULATION TECHNOLOGY</b>	OFDM
<b>TRANSFER RATE</b>	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 450.0Mbps
<b>OPERATING FREQUENCY</b>	5260 ~ 5320MHz & 5500 ~ 5700MHz
<b>NUMBER OF CHANNEL</b>	5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 7 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz)
<b>OUTPUT POWER</b>	100.5mW for 5260 ~ 5320MHz 97.1mW for 5500 ~ 5700MHz
<b>ANTENNA TYPE</b>	Refer to note
<b>ANTENNA CONNECTOR</b>	NA
<b>I/O PORTS</b>	NA
<b>DATA CABLE</b>	NA
<b>ACCESSORY DEVICES</b>	NA

**NOTE:**

1. This report is a supplementary report of RF990622C09-3. The difference compared with original report is adding frequency band from 5.26 to 5.32GHz and 5.50 to 5.70GHz by software. Therefore, all test items are re-tested in the report.
2. This report doesn't include DFS test data.
3. The frequency bands used in this EUT are listed as follows:

Frequency Band (MHz)	5260~5320	5500~5700
802.11a	√	√
802.11n (20MHz)	√	√
802.11n (40MHz)	√	√

4. The EUT has disabled the 5600-5670MHz band by S/W to avoid 5600-5670MHz band.
5. The EUT is a professional installation and with beam forming function.



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

MODULATION MODE	TX FUNCTION
802.11a	3TX/ 2TX
802.11n (20MHz) (MCS 0-7)	3TX/ 2TX
802.11n (20MHz) (MCS 8-15)	3TX/ 2TX
802.11n (20MHz) (MCS 16-23)	3TX
802.11n (40MHz) (MCS 0-7)	3TX/ 2TX
802.11n (40MHz) (MCS 8-15)	3TX/ 2TX
802.11n (40MHz) (MCS 16-23)	3TX

7. There are five antennas provided to this EUT:

No.	Brand Name	Model Name	Antenna Gain (dBi)		Antenna Type	Antenna connector	Point to Point
			For 2.4GHz	For 5.0GHz			
1	WNC	5184-6684	5.41	7.02	PIFA	U.FL	-
2	HP	J9169A	8.00	10.70	Directional	Reverse SMA	Yes
3	HP	J9170A	10.90	13.50	Directional	Reverse SMA	Yes
4	HP	J9171A	3.00	4.00	Omni	Reverse SMA	-
5	HP	J9659A	2.00	2.00	Omni	Reverse SMA	-

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

### 3.2 DESCRIPTION OF TEST MODES

#### FOR 5260 ~ 5320MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

#### FOR 5500 ~ 5700MHz

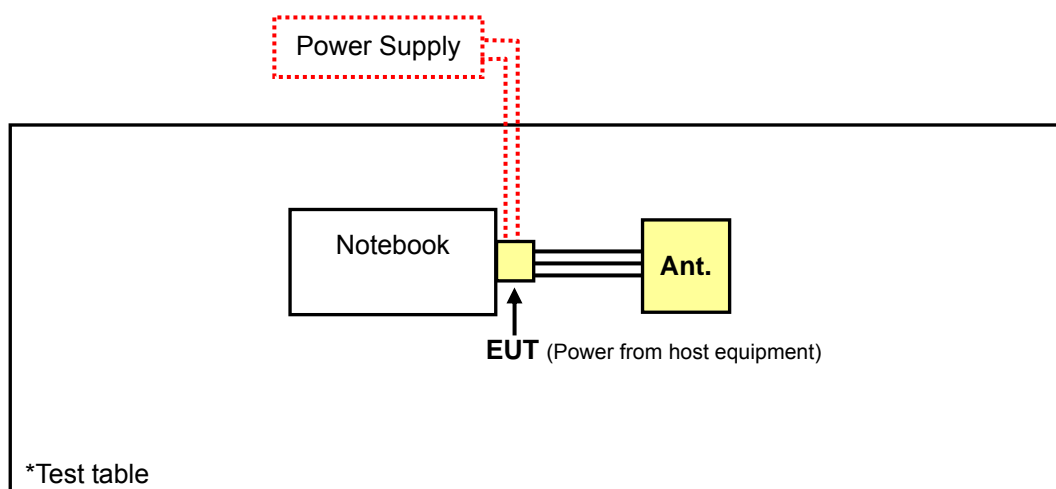
7 channels are provided for 802.11a, 802.11n (20MHz):

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	110	5550 MHz

#### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION	
	RE $\geq$ 1G	RE<1G	PLC	APCM	ANT. MODEL	BEAM FORMING FUNCTION
A	1	√	√	√	Ant. 1 model: 5184-6684	Enabled
	2	√	√	√		Disabled
B	1	√	√	√	Ant. 4 model: J9171A	Enabled
	2	√	√	√		Disabled
C	1	√	√	√	Ant. 5 model: J9659A	Enabled
	2	√	√	√		Disabled

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

#### RADIATED EMISSION TEST (ABOVE 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A 1, A 2, B 1, B 2, C 1, C 2	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	Z
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2	Z
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0	Z
A 1, A 2, B 1, B 2, C 1, C 2	802.11a	5500-5700	100 to 140	100, 116, 136, 140	OFDM	BPSK	6.0	Z
	802.11n (20MHz)		100 to 140	100, 116, 136, 140	OFDM	BPSK	7.2	Z
	802.11n (40MHz)		102 to 110	102, 110	OFDM	BPSK	15.0	Z

**RADIATED EMISSION TEST (BELOW 1GHz):**

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A1	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	BPSK	15.0	Z
A2	802.11n (20MHz)		52 to 64	60	OFDM	BPSK	7.2	Z
B1	802.11a		52 to 64	60	OFDM	BPSK	6.0	Z
B2, C1, C2	802.11a		52 to 64	52	OFDM	BPSK	6.0	Z
A1	802.11a	5500-5700	100 to 140	140	OFDM	BPSK	6.0	Z
A2	802.11n (20MHz)		100 to 140	136	OFDM	BPSK	7.2	Z
B1, B2	802.11a		100 to 140	116	OFDM	BPSK	6.0	Z
C1, C2	802.11a		100 to 140	140	OFDM	BPSK	6.0	Z

**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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A1	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	BPSK	15.0
A2	802.11n (20MHz)		52 to 64	60	OFDM	BPSK	7.2
B1	802.11a		52 to 64	60	OFDM	BPSK	6.0
B2, C1, C2	802.11a		52 to 64	52	OFDM	BPSK	6.0
A1	802.11a	5500-5700	100 to 140	140	OFDM	BPSK	6.0
A2	802.11n (20MHz)		100 to 140	136	OFDM	BPSK	7.2
B1, B2	802.11a		100 to 140	116	OFDM	BPSK	6.0
C1, C2	802.11a		100 to 140	140	OFDM	BPSK	6.0

**BANDEDGE MEASUREMENT:**

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A 1, A 2, B 1, B 2, C 1, C 2	802.11a	5260-5320	52 to 64	52, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 64	OFDM	BPSK	7.2
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0
A 1, A 2, B 1, B 2, C 1, C 2	802.11a	5500-5700	100 to 140	100, 140	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 140	100, 140	OFDM	BPSK	7.2
	802.11n (40MHz)		102 to 110	102, 110	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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A 1, A 2, B 1, B 2, C 1, C 2	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0
A 1, A 2, B 1, B 2, C 1, C 2	802.11a	5500-5700	100 to 140	100, 116, 136, 140	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 140	100, 116, 136, 140	OFDM	BPSK	7.2
	802.11n (40MHz)		102 to 110	102, 110	OFDM	BPSK	15.0



A D T

**TEST CONDITION:**

APPLICABLE TO	EUT CONFIGURE MODE	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE $\geq$ 1G	A 1, A 2, B 1, B 2, C 1, C 2	25deg. C, 68%RH, 1013 hPa	120Vac, 60Hz	Sun Lin
RE $<$ 1G	A 1, A 2, B 1, B 2, C 1, C 2	26deg. C, 66%RH, 1013 hPa	120Vac, 60Hz	Brad Wu
PLC	A1, A2	26deg. C, 65%RH, 1015 hPa	120Vac, 60Hz	Frank Wang
	B1, B2, C1, C2	26deg. C, 63%RH, 1015 hPa	120Vac, 60Hz	Frank Wang
APCM	A 1, A 2, B 1, B 2, C 1, C 2	21deg. C, 65%RH, 1006 hPa, 23deg. C, 65%RH, 1006 hPa	120Vac, 60Hz	Brad Wu, Long Chen

### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

**FCC Part 15, Subpart E (Section 15.407)**

**ANSI C63.4-2003**

**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.

### 3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	D820	21498926752	NA
2	DC POWER SUPPLY	TOP WARD	TF-6306A	727263	NA

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

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

## 4. TEST TYPES AND RESULTS

### 4.1 RADIATED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

**NOTE:**

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

#### 4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

FREQUENCIES (MHz)	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m) *NOTE 3
	PK	PK
5250 ~ 5350	-27	68.3
5470 ~ 5725	-27	68.3

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

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



#### 4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100033	Jul. 29, 2010	Jul. 28, 2011
Spectrum Analyzer Agilent	E4446A	MY48250266	Aug. 11, 2010	Aug. 10, 2011
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 27, 2010	Apr. 26, 2011
HORN Antenna SCHWARZBECK	9120D	9120D-405	Feb. 03, 2010	Feb. 02, 2011
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170190	Jan. 04, 2010	Jan. 03, 2011
Preamplifier Agilent	8447D	2944A08119	Jun. 23, 2010	Jun. 22, 2011
Preamplifier Agilent	8449B	3008A01922	Sep. 24, 2010	Sep. 23, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238141/4	May 14, 2010	May 13, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	12738/6	May 14, 2010	May 13, 2011
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	07026401	Aug. 25, 2010	Aug. 24, 2011

- 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 3.
  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 988962.
  5. The IC Site Registration No. is IC 7450F-3.

#### 4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

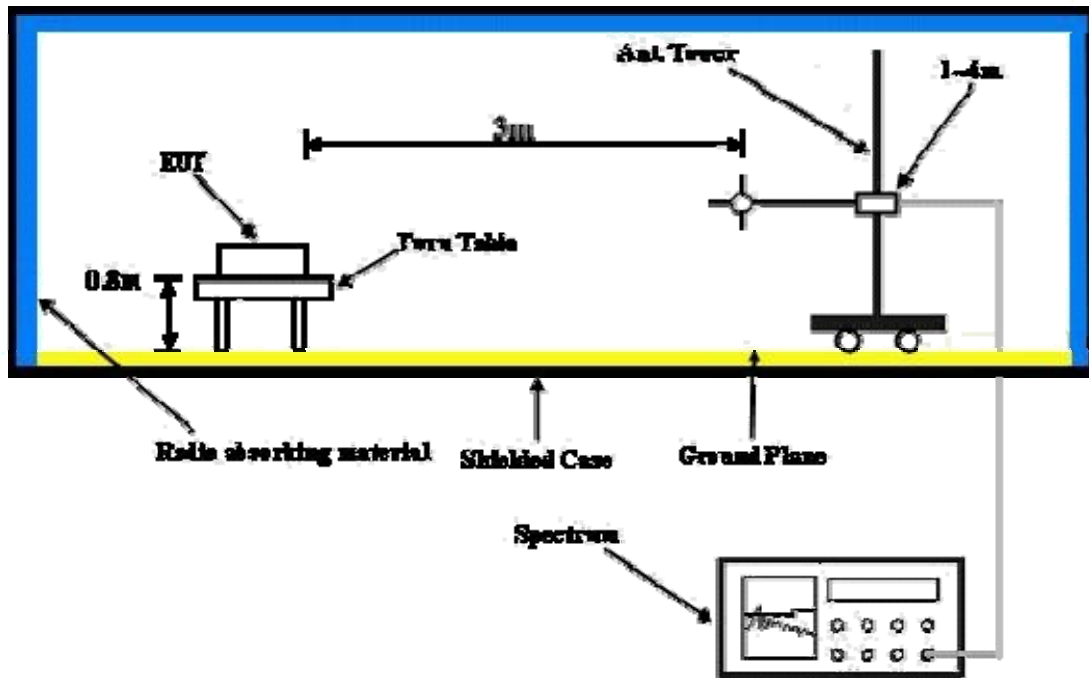
**NOTE:**

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

#### 4.1.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.1.6 TEST SETUP



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

#### 4.1.7 EUT OPERATING CONDITION

The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.

#### 4.1.8 TEST RESULTS (A1)

##### 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	54.2 PK	74.0	-19.8	1.32 H	177	17.70	36.50
2	5000.00	42.6 AV	54.0	-11.4	1.32 H	177	6.10	36.50
3	5150.00	46.2 PK	74.0	-27.8	1.24 H	305	9.50	36.70
4	5150.00	33.1 AV	54.0	-20.9	1.24 H	305	-3.60	36.70
5	*5260.00	112.1 PK			1.04 H	199	75.10	37.00
6	*5260.00	99.2 AV			1.04 H	199	62.20	37.00
7	#10520.00	58.0 PK	68.3	-10.3	1.54 H	72	9.60	48.40
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	5000.00	55.1 PK	74.0	-18.9	1.05 V	63	18.60	36.50
2	5000.00	45.2 AV	54.0	-8.8	1.05 V	63	8.70	36.50
3	5150.00	47.9 PK	74.0	-26.1	1.08 V	147	11.20	36.70
4	5150.00	35.1 AV	54.0	-18.9	1.08 V	147	-1.60	36.70
5	*5260.00	114.7 PK			1.23 V	263	77.70	37.00
6	*5260.00	102.8 AV			1.23 V	263	65.80	37.00
7	#10520.00	59.2 PK	68.3	-9.1	1.05 V	68	10.80	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	47.8 PK	74.0	-26.2	1.43 H	163	11.70	36.10
2	4760.00	42.2 AV	54.0	-11.8	1.43 H	263	6.10	36.10
3	*5300.00	111.7 PK			1.12 H	42	74.60	37.10
4	*5300.00	98.8 AV			1.12 H	42	61.70	37.10
5	10600.00	55.3 PK	74.0	-18.7	1.07 H	99	6.70	48.60
6	10600.00	44.7 AV	54.0	-9.3	1.07 H	99	-3.90	48.60
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	4760.00	49.5 PK	74.0	-24.5	1.24 V	235	13.40	36.10
2	4760.00	43.6 AV	54.0	-10.4	1.24 V	235	7.50	36.10
3	*5300.00	114.2 PK			1.12 V	57	77.10	37.10
4	*5300.00	102.3 AV			1.12 V	57	65.20	37.10
5	10600.00	57.3 PK	74.0	-16.7	1.20 V	77	8.70	48.60
6	10600.00	46.6 AV	54.0	-7.4	1.20 V	77	-2.00	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	48.0 PK	74.0	-26.0	1.05 H	325	11.50	36.50
2	5000.00	40.1 AV	54.0	-13.9	1.05 H	325	3.60	36.50
3	*5320.00	111.2 PK			1.28 H	212	74.00	37.20
4	*5320.00	98.3 AV			1.28 H	212	61.10	37.20
5	5360.00	50.2 PK	74.0	-23.8	1.37 H	217	13.00	37.20
6	5360.00	38.5 AV	54.0	-15.5	1.37 H	217	1.30	37.20
7	10640.00	54.8 PK	74.0	-19.2	1.12 H	51	6.20	48.60
8	10640.00	44.7 AV	54.0	-9.3	1.12 H	51	-3.90	48.60
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	5000.00	51.9 PK	74.0	-22.1	1.05 V	257	15.40	36.50
2	5000.00	42.1 AV	54.0	-11.9	1.05 V	257	5.60	36.50
3	*5320.00	113.7 PK			1.33 V	200	76.50	37.20
4	*5320.00	101.8 AV			1.33 V	200	64.60	37.20
5	5360.00	50.8 PK	74.0	-23.2	1.55 V	245	13.60	37.20
6	5360.00	37.3 AV	54.0	-16.7	1.55 V	245	0.10	37.20
7	10640.00	57.8 PK	74.0	-16.2	1.05 V	304	9.20	48.60
8	10640.00	46.8 AV	54.0	-7.2	1.05 V	304	-1.80	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	47.2 PK	74.0	-26.8	1.32 H	85	10.70	36.50
2	5000.00	39.8 AV	54.0	-14.2	1.32 H	85	3.30	36.50
3	5460.00	51.2 PK	74.0	-22.8	1.43 H	221	13.90	37.30
4	5460.00	35.2 AV	54.0	-18.8	1.43 H	221	-2.10	37.30
5	#5470.00	62.0 PK	68.3	-6.3	1.43 H	221	24.60	37.40
6	*5500.00	110.8 PK			1.07 H	123	73.40	37.40
7	*5500.00	97.8 AV			1.07 H	123	60.40	37.40
8	11000.00	57.8 PK	74.0	-16.2	1.57 H	241	9.10	48.70
9	11000.00	46.2 AV	54.0	-7.8	1.57 H	241	-2.50	48.70
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	5000.00	50.9 PK	74.0	-23.1	1.22 V	201	14.40	36.50
2	5000.00	43.2 AV	54.0	-10.8	1.22 V	201	6.70	36.50
3	5460.00	53.0 PK	74.0	-21.0	1.29 V	185	15.70	37.30
4	5460.00	35.8 AV	54.0	-18.2	1.29 V	185	-1.50	37.30
5	#5470.00	63.8 PK	68.3	-4.5	1.22 V	185	26.40	37.40
6	*5500.00	113.4 PK			1.15 V	157	76.00	37.40
7	*5500.00	101.5 AV			1.15 V	157	64.10	37.40
8	11000.00	58.1 PK	74.0	-15.9	1.33 V	128	9.40	48.70
9	11000.00	46.9 AV	54.0	-7.1	1.33 V	128	-1.80	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	48.7 PK	74.0	-25.3	1.04 H	232	12.20	36.50
2	5000.00	39.2 AV	54.0	-14.8	1.04 H	232	2.70	36.50
3	*5580.00	110.5 PK			1.43 H	99	72.90	37.60
4	*5580.00	97.2 AV			1.43 H	99	59.60	37.60
5	11160.00	57.3 PK	74.0	-16.7	1.33 H	213	8.90	48.40
6	11160.00	44.8 AV	54.0	-9.2	1.33 H	213	-3.60	48.40
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	5000.00	50.5 PK	74.0	-23.5	1.08 V	63	14.00	36.50
2	5000.00	42.8 AV	54.0	-11.2	1.08 V	63	6.30	36.50
3	*5580.00	113.2 PK			1.42 V	355	75.60	37.60
4	*5580.00	101.3 AV			1.42 V	355	63.70	37.60
5	11160.00	58.2 PK	74.0	-15.8	1.36 V	279	9.80	48.40
6	11160.00	45.7 AV	54.0	-8.3	1.36 V	279	-2.70	48.40

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.2 PK	74.0	-24.8	1.02 H	15	12.70	36.50
2	5000.00	39.8 AV	54.0	-14.2	1.02 H	15	3.30	36.50
3	*5680.00	110.2 PK			1.32 H	178	72.40	37.80
4	*5680.00	96.9 AV			1.32 H	178	59.10	37.80
5	11360.00	56.1 PK	74.0	-17.9	1.36 H	201	8.00	48.10
6	11360.00	45.2 AV	54.0	-8.8	1.36 H	201	-2.90	48.10
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	5000.00	50.8 PK	74.0	-23.2	1.07 V	335	14.30	36.50
2	5000.00	43.1 AV	54.0	-10.9	1.07 V	335	6.60	36.50
3	*5680.00	112.8 PK			1.24 V	353	75.00	37.80
4	*5680.00	100.8 AV			1.24 V	353	63.00	37.80
5	11360.00	57.9 PK	74.0	-16.1	1.15 V	163	9.80	48.10
6	11360.00	47.2 AV	54.0	-6.8	1.15 V	163	-0.90	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.7 PK	74.0	-25.3	1.07 H	125	12.60	36.10
2	4760.00	42.2 AV	54.0	-11.8	1.07 H	125	6.10	36.10
3	*5700.00	109.8 PK			1.13 H	303	71.90	37.90
4	*5700.00	96.4 AV			1.13 H	303	58.50	37.90
5	#5725.00	63.8 PK	68.3	-4.5	1.48 H	69	25.80	38.00
6	11400.00	56.8 PK	74.0	-17.2	1.48 H	68	8.80	48.00
7	11400.00	45.2 AV	54.0	-8.8	1.34 H	58	-2.80	48.00
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	4760.00	50.8 PK	74.0	-23.2	1.05 V	293	14.70	36.10
2	4760.00	44.5 AV	54.0	-9.5	1.05 V	293	8.40	36.10
3	*5700.00	112.2 PK			1.32 V	105	74.30	37.90
4	*5700.00	100.3 AV			1.32 V	105	62.40	37.90
5	#5725.00	64.8 PK	68.3	-3.5	1.26 V	89	26.80	38.00
6	11400.00	58.3 PK	74.0	-15.7	1.02 V	62	10.30	48.00
7	11400.00	46.7 AV	54.0	-7.3	1.02 V	62	-1.30	48.00

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



802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	48.3 PK	74.0	-25.7	1.04 H	305	11.80	36.50
2	5000.00	40.1 AV	54.0	-13.9	1.04 H	305	3.60	36.50
3	5120.00	47.4 PK	74.0	-26.6	1.08 H	298	10.70	36.70
4	5120.00	38.0 AV	54.0	-16.0	1.08 H	298	1.30	36.70
5	*5260.00	112.5 PK			1.33 H	107	75.50	37.00
6	*5260.00	99.5 AV			1.33 H	107	62.50	37.00
7	#10520.00	56.5 PK	68.3	-11.8	1.48 H	278	8.10	48.40
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	5000.00	51.2 PK	74.0	-22.8	1.02 V	32	14.70	36.50
2	5000.00	43.3 AV	54.0	-10.7	1.02 V	32	6.80	36.50
3	5120.00	49.3 PK	74.0	-24.7	1.08 V	326	12.60	36.70
4	5120.00	38.2 AV	54.0	-15.8	1.08 V	326	1.50	36.70
5	*5260.00	115.1 PK			1.43 V	207	78.10	37.00
6	*5260.00	103.2 AV			1.43 V	207	66.20	37.00
7	#10520.00	59.7 PK	68.3	-8.6	1.03 V	23	11.30	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	49.0 PK	74.0	-25.0	1.03 H	157	12.90	36.10
2	4760.00	41.9 AV	54.0	-12.1	1.03 H	157	5.80	36.10
3	*5300.00	112.2 PK			1.32 H	247	75.10	37.10
4	*5300.00	99.0 AV			1.32 H	247	61.90	37.10
5	10600.00	56.5 PK	74.0	-17.5	1.12 H	208	7.90	48.60
6	10600.00	46.0 AV	54.0	-8.0	1.12 H	208	-2.60	48.60
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	4760.00	49.8 PK	74.0	-24.2	1.12 V	263	13.70	36.10
2	4760.00	44.0 AV	54.0	-10.0	1.12 V	263	7.90	36.10
3	*5300.00	114.9 PK			1.05 V	158	77.80	37.10
4	*5300.00	103.1 AV			1.08 V	158	66.00	37.10
5	10600.00	58.0 PK	74.0	-16.0	1.33 V	108	9.40	48.60
6	10600.00	46.7 AV	54.0	-7.3	1.33 V	108	-1.90	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.2 PK	74.0	-25.8	1.02 H	153	12.10	36.10
2	4760.00	42.3 AV	54.0	-11.7	1.02 H	153	6.20	36.10
3	*5320.00	112.1 PK			1.22 H	285	74.90	37.20
4	*5320.00	98.7 AV			1.22 H	285	61.50	37.20
5	5360.00	58.2 PK	74.0	-15.8	1.36 H	198	21.00	37.20
6	5360.00	42.1 AV	54.0	-11.9	1.36 H	198	4.90	37.20
7	10640.00	56.1 PK	74.0	-17.9	1.38 H	200	7.50	48.60
8	10640.00	45.8 AV	54.0	-8.2	1.38 H	200	-2.80	48.60
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	4760.00	50.3 PK	74.0	-23.7	1.53 V	47	14.20	36.10
2	4760.00	45.2 AV	54.0	-8.8	1.53 V	47	9.10	36.10
3	*5320.00	114.5 PK			1.35 V	117	77.30	37.20
4	*5320.00	102.4 AV			1.35 V	117	65.20	37.20
5	5360.00	60.5 PK	74.0	-13.5	1.65 V	305	23.30	37.20
6	5360.00	43.3 AV	54.0	-10.7	1.65 V	305	6.10	37.20
7	10640.00	58.2 PK	74.0	-15.8	1.47 V	105	9.60	48.60
8	10640.00	46.7 AV	54.0	-7.3	1.47 V	105	-1.90	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	47.8 PK	74.0	-26.2	1.04 H	211	11.70	36.10
2	4760.00	41.2 AV	54.0	-12.8	1.04 H	211	5.10	36.10
3	5460.00	52.8 PK	74.0	-21.2	1.35 H	153	15.50	37.30
4	5460.00	36.0 AV	54.0	-18.0	1.35 H	153	-1.30	37.30
5	#5470.00	64.9 PK	68.3	-3.4	1.35 H	153	27.50	37.40
6	*5500.00	111.8 PK			1.24 H	178	74.40	37.40
7	*5500.00	98.4 AV			1.24 H	178	61.00	37.40
8	11000.00	56.0 PK	74.0	-18.0	1.36 H	205	7.30	48.70
9	11000.00	45.8 AV	54.0	-8.2	1.36 H	205	-2.90	48.70
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	4760.00	49.0 PK	74.0	-25.0	1.05 V	332	12.90	36.10
2	4760.00	43.3 AV	54.0	-10.7	1.05 V	332	7.20	36.10
3	5460.00	55.1 PK	74.0	-18.9	1.45 V	304	17.80	37.30
4	5460.00	35.2 AV	54.0	-18.8	1.45 V	304	-2.10	37.30
5	#5470.00	65.1 PK	68.3	-3.2	1.45 V	304	27.70	37.40
6	*5500.00	114.0 PK			1.05 V	183	76.60	37.40
7	*5500.00	102.0 AV			1.05 V	183	64.60	37.40
8	11000.00	58.2 PK	74.0	-15.8	1.26 V	105	9.50	48.70
9	11000.00	47.0 AV	54.0	-7.0	1.26 V	105	-1.70	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	47.9 PK	74.0	-26.1	1.08 H	165	11.80	36.10
2	4760.00	40.7 AV	54.0	-13.3	1.08 H	165	4.60	36.10
3	*5580.00	111.4 PK			1.18 H	57	73.80	37.60
4	*5580.00	98.0 AV			1.18 H	57	60.40	37.60
5	11160.00	56.2 PK	74.0	-17.8	1.36 H	102	7.80	48.40
6	11160.00	45.2 AV	54.0	-8.8	1.36 H	102	-3.20	48.40
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	4760.00	50.9 PK	74.0	-23.1	1.35 V	152	14.80	36.10
2	4760.00	42.0 AV	54.0	-12.0	1.35 V	152	5.90	36.10
3	*5580.00	113.7 PK			1.24 V	324	76.10	37.60
4	*5580.00	101.8 AV			1.24 V	324	64.20	37.60
5	11160.00	57.9 PK	74.0	-16.1	1.05 V	112	9.50	48.40
6	11160.00	47.1 AV	54.0	-6.9	1.05 V	112	-1.30	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	47.8 PK	74.0	-26.2	1.35 H	117	11.70	36.10
2	4760.00	40.9 AV	54.0	-13.1	1.35 H	117	4.80	36.10
3	*5680.00	111.0 PK			1.25 H	305	73.20	37.80
4	*5680.00	97.7 AV			1.25 H	305	59.90	37.80
5	11360.00	56.8 PK	74.0	-17.2	1.24 H	185	8.70	48.10
6	11360.00	44.8 AV	54.0	-9.2	1.24 H	185	-3.30	48.10
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	4760.00	51.5 PK	74.0	-22.5	1.28 V	65	15.40	36.10
2	4760.00	42.5 AV	54.0	-11.5	1.28 V	65	6.40	36.10
3	*5680.00	113.3 PK			1.07 V	261	75.50	37.80
4	*5680.00	101.5 AV			1.07 V	261	63.70	37.80
5	11360.00	58.0 PK	74.0	-16.0	1.58 V	99	9.90	48.10
6	11360.00	47.3 AV	54.0	-6.7	1.58 V	99	-0.80	48.10

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	48.0 PK	74.0	-26.0	1.06 H	243	11.40	36.60
2	5040.00	42.2 AV	54.0	-11.8	1.06 H	243	5.60	36.60
3	*5700.00	110.7 PK			1.28 H	296	72.80	37.90
4	*5700.00	97.2 AV			1.28 H	296	59.30	37.90
5	#5725.00	64.8 PK	68.3	-3.5	1.22 H	98	26.80	38.00
6	11400.00	56.4 PK	74.0	-17.6	1.32 H	102	8.40	48.00
7	11400.00	45.2 AV	54.0	-8.8	1.32 H	102	-2.80	48.00
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	5040.00	50.0 PK	74.0	-24.0	1.22 V	106	13.40	36.60
2	5040.00	44.5 AV	54.0	-9.5	1.22 V	106	7.90	36.60
3	*5700.00	113.0 PK			1.37 V	177	75.10	37.90
4	*5700.00	101.2 AV			1.37 V	177	63.30	37.90
5	#5725.00	65.7 PK	68.3	-2.6	1.25 V	203	27.70	38.00
6	11400.00	58.2 PK	74.0	-15.8	1.32 V	78	10.20	48.00
7	11400.00	47.1 AV	54.0	-6.9	1.32 V	78	-0.90	48.00

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



802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.3 PK	74.0	-25.7	1.03 H	288	12.20	36.10
2	4760.00	42.8 AV	54.0	-11.2	1.03 H	288	6.70	36.10
3	5150.00	47.0 PK	74.0	-27.0	1.35 H	203	10.30	36.70
4	5150.00	34.4 AV	54.0	-19.6	1.35 H	203	-2.30	36.70
5	*5270.00	108.4 PK			1.33 H	211	71.40	37.00
6	*5270.00	95.3 AV			1.33 H	211	58.30	37.00
7	#10540.00	56.7 PK	68.3	-11.6	1.28 H	105	8.30	48.40

**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	4760.00	51.1 PK	74.0	-22.9	1.02 V	43	15.00	36.10
2	4760.00	45.8 AV	54.0	-8.2	1.02 V	43	9.70	36.10
3	5150.00	49.8 PK	74.0	-24.2	1.38 V	202	13.10	36.70
4	5150.00	35.0 AV	54.0	-19.0	1.38 V	202	-1.70	36.70
5	*5270.00	112.4 PK			1.17 V	273	75.40	37.00
6	*5270.00	99.0 AV			1.17 V	273	62.00	37.00
7	#10540.00	59.3 PK	68.3	-9.0	1.57 V	105	10.90	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	48.8 PK	74.0	-25.2	1.14 H	105	12.30	36.50
2	5000.00	40.8 AV	54.0	-13.2	1.14 H	105	4.30	36.50
3	*5310.00	108.1 PK			1.32 H	293	71.00	37.10
4	*5310.00	95.0 AV			1.32 H	293	57.90	37.10
5	5350.00	70.5 PK	74.0	-3.5	1.52 H	13	33.30	37.20
6	5350.00	49.8 AV	54.0	-4.2	1.52 H	13	12.60	37.20
7	10620.00	55.9 PK	74.0	-18.1	1.28 H	341	7.30	48.60
8	10620.00	45.2 AV	54.0	-8.8	1.28 H	341	-3.40	48.60
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	5000.00	52.8 PK	74.0	-21.2	1.05 V	188	16.30	36.50
2	5000.00	45.3 AV	54.0	-8.7	1.05 V	188	8.80	36.50
3	*5310.00	112.0 PK			1.22 V	355	74.90	37.10
4	*5310.00	98.7 AV			1.22 V	355	61.60	37.10
5	5350.00	71.2 PK	74.0	-2.8	1.25 V	193	34.00	37.20
6	5350.00	50.7 AV	54.0	-3.3	1.25 V	193	13.50	37.20
7	10620.00	57.3 PK	74.0	-16.7	1.37 V	108	8.70	48.60
8	10620.00	46.2 AV	54.0	-7.8	1.37 V	108	-2.40	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.0 PK	74.0	-26.0	1.37 H	223	11.90	36.10
2	4760.00	41.5 AV	54.0	-12.5	1.37 H	223	5.40	36.10
3	5460.00	64.8 PK	74.0	-9.2	1.05 H	321	27.50	37.30
4	5460.00	44.5 AV	54.0	-9.5	1.05 H	321	7.20	37.30
5	#5470.00	66.0 PK	68.3	-2.3	1.05 H	321	28.60	37.40
6	*5510.00	107.5 PK			1.13 H	217	70.10	37.40
7	*5510.00	94.8 AV			1.13 H	217	57.40	37.40
8	11020.00	56.0 PK	74.0	-18.0	1.09 H	142	7.30	48.70
9	11020.00	44.8 AV	54.0	-9.2	1.09 H	142	-3.90	48.70
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	4760.00	50.2 PK	74.0	-23.8	1.32 V	17	14.10	36.10
2	4760.00	44.6 AV	54.0	-9.4	1.32 V	17	8.50	36.10
3	5460.00	65.9 PK	74.0	-8.1	1.08 V	193	28.60	37.30
4	5460.00	47.2 AV	54.0	-6.8	1.08 V	193	9.90	37.30
5	#5470.00	66.4 PK	68.3	-1.9	1.08 V	193	29.00	37.40
6	*5510.00	111.6 PK			1.27 V	187	74.20	37.40
7	*5510.00	98.2 AV			1.27 V	187	60.80	37.40
8	11020.00	58.8 PK	74.0	-15.2	1.04 V	53	10.10	48.70
9	11020.00	47.3 AV	54.0	-6.7	1.04 V	53	-1.40	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.0 PK	74.0	-26.0	1.36 H	78	11.90	36.10
2	4760.00	40.8 AV	54.0	-13.2	1.36 H	78	4.70	36.10
3	*5550.00	107.1 PK			1.04 H	205	69.60	37.50
4	*5550.00	94.3 AV			1.04 H	205	56.80	37.50
5	#5725.00	50.9 PK	68.3	-17.4	1.04 H	205	12.90	38.00
6	11100.00	56.2 PK	74.0	-17.8	1.35 H	165	7.70	48.50
7	11100.00	45.3 AV	54.0	-8.7	1.35 H	165	-3.20	48.50
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	4760.00	49.9 PK	74.0	-24.1	1.25 V	127	13.80	36.10
2	4760.00	44.2 AV	54.0	-9.8	1.25 V	147	8.10	36.10
3	*5550.00	111.2 PK			1.03 V	314	73.70	37.50
4	*5550.00	97.8 AV			1.03 V	314	60.30	37.50
5	#5725.00	52.0 PK	68.3	-16.3	1.03 V	314	14.00	38.00
6	11100.00	58.3 PK	74.0	-15.7	1.15 V	105	9.80	48.50
7	11100.00	47.1 AV	54.0	-6.9	1.15 V	105	-1.40	48.50

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



A D T

**BELOW 1GHz WORST-CASE DATA : 802.11n (40MHz)**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	99.89	30.8 QP	43.5	-12.7	1.25 H	105	20.70	10.10
2	199.05	40.5 QP	43.5	-3.0	1.25 H	208	30.20	10.30
3	232.11	32.0 QP	46.0	-14.0	1.25 H	89	20.10	11.90
4	300.16	32.5 QP	46.0	-13.5	1.25 H	118	17.80	14.70
5	477.09	30.8 QP	46.0	-15.2	1.75 H	227	11.60	19.20
6	665.68	39.5 QP	46.0	-6.5	1.25 H	302	16.40	23.10

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	30.00	30.0 QP	40.0	-10.0	1.25 V	120	17.50	12.50
2	199.05	34.8 QP	43.5	-8.7	1.25 V	217	24.50	10.30
3	463.48	27.4 QP	46.0	-18.6	1.25 V	58	8.50	18.90
4	529.58	31.2 QP	46.0	-14.8	1.25 V	102	10.70	20.50
5	665.68	41.7 QP	46.0	-4.3	1.25 V	299	18.60	23.10
6	924.27	36.6 QP	46.0	-9.4	1.25 V	17	10.30	26.30

- 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.



A D T

**BELOW 1GHz WORST-CASE DATA : 802.11a**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	199.05	39.6 QP	43.5	-3.9	1.25 H	93	29.30	10.30
2	300.16	33.8 QP	46.0	-12.2	1.25 H	128	19.10	14.70
3	463.48	29.7 QP	46.0	-16.3	1.25 H	115	10.80	18.90
4	529.58	31.1 QP	46.0	-14.9	1.75 H	99	10.60	20.50
5	667.63	38.9 QP	46.0	-7.1	1.25 H	203	15.80	23.10
6	924.27	34.7 QP	46.0	-11.3	1.25 H	87	8.40	26.30
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	39.62	28.8 QP	40.0	-11.2	1.25 V	53	14.50	14.30
2	199.05	34.3 QP	43.5	-9.2	1.75 V	112	24.00	10.30
3	469.31	29.3 QP	46.0	-16.7	1.75 V	105	10.30	19.00
4	527.64	31.4 QP	46.0	-14.6	1.00 V	35	10.90	20.50
5	665.68	39.0 QP	46.0	-7.0	1.25 V	207	15.90	23.10
6	926.22	36.3 QP	46.0	-9.7	1.25 V	32	10.00	26.30

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

#### 4.1.9 TEST RESULTS (A2)

##### 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	54.9 PK	74.0	-19.1	1.14 H	305	18.40	36.50
2	5000.00	43.2 AV	54.0	-10.8	1.14 H	305	6.70	36.50
3	5150.00	46.9 PK	74.0	-27.1	1.08 H	47	10.20	36.70
4	5150.00	33.8 AV	54.0	-20.2	1.08 H	47	-2.90	36.70
5	*5260.00	112.6 PK			1.02 H	219	75.60	37.00
6	*5260.00	99.7 AV			1.02 H	219	62.70	37.00
7	#10520.00	58.3 PK	68.3	-10.0	1.32 H	48	9.90	48.40
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	5000.00	55.5 PK	74.0	-18.5	1.01 V	254	19.00	36.50
2	5000.00	46.0 AV	54.0	-8.0	1.01 V	254	9.50	36.50
3	5150.00	48.5 PK	74.0	-25.5	1.03 V	278	11.80	36.70
4	5150.00	35.6 AV	54.0	-18.4	1.03 V	278	-1.10	36.70
5	*5260.00	115.2 PK			1.05 V	271	78.20	37.00
6	*5260.00	103.2 AV			1.05 V	271	66.20	37.00
7	#10520.00	59.6 PK	68.3	-8.7	1.18 V	223	11.20	48.40

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.4 PK	74.0	-25.6	1.12 H	288	12.30	36.10
2	4760.00	42.6 AV	54.0	-11.4	1.12 H	288	6.50	36.10
3	*5300.00	112.1 PK			1.02 H	253	75.00	37.10
4	*5300.00	99.3 AV			1.06 H	258	62.20	37.10
5	10600.00	55.9 PK	74.0	-18.1	1.25 H	23	7.30	48.60
6	10600.00	45.2 AV	54.0	-8.8	1.25 H	23	-3.40	48.60
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	4760.00	50.0 PK	74.0	-24.0	1.12 V	273	13.90	36.10
2	4760.00	44.0 AV	54.0	-10.0	1.12 V	273	7.90	36.10
3	*5300.00	114.7 PK			1.08 V	178	77.60	37.10
4	*5300.00	102.9 AV			1.08 V	178	65.80	37.10
5	10600.00	58.3 PK	74.0	-15.7	1.36 V	185	9.70	48.60
6	10600.00	47.1 AV	54.0	-6.9	1.36 V	185	-1.50	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	48.5 PK	74.0	-25.5	1.00 H	242	12.00	36.50
2	5000.00	40.8 AV	54.0	-13.2	1.00 H	242	4.30	36.50
3	*5320.00	111.8 PK			1.09 H	356	74.60	37.20
4	*5320.00	99.0 AV			1.09 H	356	61.80	37.20
5	5360.00	50.8 PK	74.0	-23.2	1.02 H	305	13.60	37.20
6	5360.00	39.3 AV	54.0	-14.7	1.02 H	305	2.10	37.20
7	10640.00	55.3 PK	74.0	-18.7	1.08 H	221	6.70	48.60
8	10640.00	45.0 AV	54.0	-9.0	1.08 H	221	-3.60	48.60
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	5000.00	52.4 PK	74.0	-21.6	1.01 V	300	15.90	36.50
2	5000.00	42.5 AV	54.0	-11.5	1.01 V	300	6.00	36.50
3	*5320.00	114.3 PK			1.02 V	233	77.10	37.20
4	*5320.00	102.4 AV			1.02 V	233	65.20	37.20
5	5360.00	51.1 PK	74.0	-22.9	1.31 V	308	13.90	37.20
6	5360.00	37.9 AV	54.0	-16.1	1.31 V	308	0.70	37.20
7	10640.00	58.2 PK	74.0	-15.8	1.27 V	147	9.60	48.60
8	10640.00	47.2 AV	54.0	-6.8	1.27 V	147	-1.40	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	47.8 PK	74.0	-26.2	1.02 H	12	11.30	36.50
2	5000.00	40.4 AV	54.0	-13.6	1.02 H	12	3.90	36.50
3	5460.00	51.8 PK	74.0	-22.2	1.15 H	242	14.50	37.30
4	5460.00	35.9 AV	54.0	-18.1	1.15 H	242	-1.40	37.30
5	#5470.00	62.5 PK	68.3	-5.8	1.15 H	242	25.10	37.40
6	*5500.00	111.4 PK			1.12 H	77	74.00	37.40
7	*5500.00	98.5 AV			1.12 H	77	61.10	37.40
8	11000.00	58.0 PK	74.0	-16.0	1.38 H	343	9.30	48.70
9	11000.00	46.5 AV	54.0	-7.5	1.38 H	343	-2.20	48.70
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	5000.00	51.6 PK	74.0	-22.4	1.02 V	300	15.10	36.50
2	5000.00	43.8 AV	54.0	-10.2	1.02 V	300	7.30	36.50
3	5460.00	53.8 PK	74.0	-20.2	1.09 V	288	16.50	37.30
4	5460.00	36.3 AV	54.0	-17.7	1.09 V	288	-1.00	37.30
5	#5470.00	64.2 PK	68.3	-4.1	1.09 V	288	26.80	37.40
6	*5500.00	113.9 PK			1.02 V	298	76.50	37.40
7	*5500.00	102.2 AV			1.02 V	298	64.80	37.40
8	11000.00	58.5 PK	74.0	-15.5	1.04 V	138	9.80	48.70
9	11000.00	47.3 AV	54.0	-6.7	1.04 V	138	-1.40	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.2 PK	74.0	-24.8	1.31 H	262	12.70	36.50
2	5000.00	39.9 AV	54.0	-14.1	1.31 H	262	3.40	36.50
3	*5580.00	111.0 PK			1.07 H	103	73.40	37.60
4	*5580.00	98.1 AV			1.07 H	103	60.50	37.60
5	11160.00	57.9 PK	74.0	-16.1	1.04 H	327	9.50	48.40
6	11160.00	45.2 AV	54.0	-8.8	1.04 H	327	-3.20	48.40
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	5000.00	50.8 PK	74.0	-23.2	1.18 V	289	14.30	36.50
2	5000.00	43.3 AV	54.0	-10.7	1.18 V	289	6.80	36.50
3	*5580.00	113.5 PK			1.08 V	269	75.90	37.60
4	*5580.00	101.8 AV			1.08 V	269	64.20	37.60
5	11160.00	58.7 PK	74.0	-15.3	1.12 V	305	10.30	48.40
6	11160.00	46.2 AV	54.0	-7.8	1.12 V	305	-2.20	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.6 PK	74.0	-24.4	1.35 H	247	13.10	36.50
2	5000.00	40.3 AV	54.0	-13.7	1.35 H	247	3.80	36.50
3	*5680.00	110.7 PK			1.12 H	331	72.90	37.80
4	*5680.00	97.7 AV			1.12 H	331	59.90	37.80
5	11360.00	56.8 PK	74.0	-17.2	1.05 H	127	8.70	48.10
6	11360.00	45.7 AV	54.0	-8.3	1.05 H	127	-2.40	48.10
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	5000.00	51.3 PK	74.0	-22.7	1.13 V	299	14.80	36.50
2	5000.00	43.4 AV	54.0	-10.6	1.13 V	299	6.90	36.50
3	*5680.00	113.1 PK			1.02 V	285	75.30	37.80
4	*5680.00	101.5 AV			1.02 V	285	63.70	37.80
5	11360.00	58.2 PK	74.0	-15.8	1.23 V	204	10.10	48.10
6	11360.00	47.8 AV	54.0	-6.2	1.23 V	204	-0.30	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	49.2 PK	74.0	-24.8	1.12 H	286	13.10	36.10
2	4760.00	42.6 AV	54.0	-11.4	1.12 H	286	6.50	36.10
3	*5700.00	110.2 PK			1.02 H	299	72.30	37.90
4	*5700.00	97.2 AV			1.02 H	299	59.30	37.90
5	#5725.00	63.1 PK	68.3	-5.2	1.31 H	230	25.10	38.00
6	11400.00	57.2 PK	74.0	-16.8	1.25 H	193	9.20	48.00
7	11400.00	45.8 AV	54.0	-8.2	1.25 H	193	-2.20	48.00
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	4760.00	51.1 PK	74.0	-22.9	1.28 V	281	15.00	36.10
2	4760.00	44.9 AV	54.0	-9.1	1.28 V	281	8.80	36.10
3	*5700.00	112.6 PK			1.05 V	253	74.70	37.90
4	*5700.00	101.1 AV			1.05 V	253	63.20	37.90
5	#5725.00	64.3 PK	68.3	-4.0	1.00 V	165	26.30	38.00
6	11400.00	58.7 PK	74.0	-15.3	1.21 V	243	10.70	48.00
7	11400.00	47.0 AV	54.0	-7.0	1.21 V	243	-1.00	48.00

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



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.0 PK	74.0	-25.0	1.32 H	242	12.50	36.50
2	5000.00	40.7 AV	54.0	-13.3	1.32 H	242	4.20	36.50
3	5120.00	48.2 PK	74.0	-25.8	1.27 H	233	11.50	36.70
4	5120.00	38.5 AV	54.0	-15.5	1.27 H	233	1.80	36.70
5	*5260.00	114.8 PK			1.23 H	204	77.80	37.00
6	*5260.00	101.6 AV			1.23 H	204	64.60	37.00
7	#10520.00	57.1 PK	68.3	-11.2	1.52 H	355	8.70	48.40
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	5000.00	52.0 PK	74.0	-22.0	1.43 V	277	15.50	36.50
2	5000.00	44.2 AV	54.0	-9.8	1.43 V	277	7.70	36.50
3	5120.00	50.0 PK	74.0	-24.0	1.00 V	299	13.30	36.70
4	5120.00	38.7 AV	54.0	-15.3	1.00 V	299	2.00	36.70
5	*5260.00	117.3 PK			1.08 V	265	80.30	37.00
6	*5260.00	105.4 AV			1.08 V	265	68.40	37.00
7	#10520.00	60.2 PK	68.3	-8.1	1.14 V	253	11.80	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	49.8 PK	74.0	-24.2	1.00 H	289	13.70	36.10
2	4760.00	42.4 AV	54.0	-11.6	1.00 H	289	6.30	36.10
3	*5300.00	114.3 PK			1.15 H	243	77.20	37.10
4	*5300.00	101.2 AV			1.15 H	243	64.10	37.10
5	10600.00	57.0 PK	74.0	-17.0	1.07 H	353	8.40	48.60
6	10600.00	46.4 AV	54.0	-7.6	1.07 H	353	-2.20	48.60
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	4760.00	50.4 PK	74.0	-23.6	1.28 V	281	14.30	36.10
2	4760.00	44.6 AV	54.0	-9.4	1.28 V	281	8.50	36.10
3	*5300.00	117.0 PK			1.17 V	247	79.90	37.10
4	*5300.00	105.0 AV			1.17 V	247	67.90	37.10
5	10600.00	58.5 PK	74.0	-15.5	1.24 V	53	9.90	48.60
6	10600.00	47.1 AV	54.0	-6.9	1.24 V	53	-1.50	48.60

- 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.





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	49.0 PK	74.0	-25.0	1.12 H	290	12.90	36.10
2	4760.00	42.8 AV	54.0	-11.2	1.12 H	290	6.70	36.10
3	*5320.00	114.0 PK			1.04 H	326	76.80	37.20
4	*5320.00	100.9 AV			1.04 H	326	63.70	37.20
5	5360.00	58.9 PK	74.0	-15.1	1.22 H	258	21.70	37.20
6	5360.00	43.0 AV	54.0	-11.0	1.22 H	258	5.80	37.20
7	10640.00	56.7 PK	74.0	-17.3	1.27 H	133	8.10	48.60
8	10640.00	46.4 AV	54.0	-7.6	1.27 H	133	-2.20	48.60
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	4760.00	51.0 PK	74.0	-23.0	1.28 V	282	14.90	36.10
2	4760.00	46.0 AV	54.0	-8.0	1.28 V	282	9.90	36.10
3	*5320.00	116.7 PK			1.08 V	213	79.50	37.20
4	*5320.00	104.6 AV			1.08 V	213	67.40	37.20
5	5360.00	61.1 PK	74.0	-12.9	1.05 V	299	23.90	37.20
6	5360.00	43.9 AV	54.0	-10.1	1.05 V	299	6.70	37.20
7	10640.00	58.5 PK	74.0	-15.5	1.55 V	93	9.90	48.60
8	10640.00	47.1 AV	54.0	-6.9	1.55 V	93	-1.50	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.2 PK	74.0	-25.8	1.12 H	290	12.10	36.10
2	4760.00	41.8 AV	54.0	-12.2	1.12 H	290	5.70	36.10
3	5460.00	53.1 PK	74.0	-20.9	1.27 H	218	15.80	37.30
4	5460.00	36.6 AV	54.0	-17.4	1.27 H	218	-0.70	37.30
5	#5470.00	65.2 PK	68.3	-3.1	1.27 H	218	27.80	37.40
6	*5500.00	113.7 PK			1.17 H	232	76.30	37.40
7	*5500.00	100.5 AV			1.17 H	232	63.10	37.40
8	11000.00	56.5 PK	74.0	-17.5	1.28 H	289	7.80	48.70
9	11000.00	46.2 AV	54.0	-7.8	1.28 H	289	-2.50	48.70
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	4760.00	49.7 PK	74.0	-24.3	1.17 V	265	13.60	36.10
2	4760.00	44.0 AV	54.0	-10.0	1.17 V	265	7.90	36.10
3	5460.00	55.6 PK	74.0	-18.4	1.16 V	217	18.30	37.30
4	5460.00	35.9 AV	54.0	-18.1	1.16 V	217	-1.40	37.30
5	#5470.00	65.7 PK	68.3	-2.6	1.16 V	217	28.30	37.40
6	*5500.00	116.5 PK			1.13 V	204	79.10	37.40
7	*5500.00	104.2 AV			1.13 V	204	66.80	37.40
8	11000.00	58.6 PK	74.0	-15.4	1.23 V	207	9.90	48.70
9	11000.00	47.5 AV	54.0	-6.5	1.23 V	207	-1.20	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.4 PK	74.0	-25.6	1.00 H	293	12.30	36.10
2	4760.00	41.1 AV	54.0	-12.9	1.00 H	293	5.00	36.10
3	*5580.00	113.3 PK			1.06 H	201	75.70	37.60
4	*5580.00	100.1 AV			1.06 H	201	62.50	37.60
5	11160.00	56.8 PK	74.0	-17.2	1.08 H	63	8.40	48.40
6	11160.00	45.9 AV	54.0	-8.1	1.08 H	63	-2.50	48.40
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	4760.00	51.4 PK	74.0	-22.6	1.22 V	301	15.30	36.10
2	4760.00	42.7 AV	54.0	-11.3	1.22 V	301	6.60	36.10
3	*5580.00	116.2 PK			1.09 V	257	78.60	37.60
4	*5580.00	104.0 AV			1.09 V	257	66.40	37.60
5	11160.00	58.3 PK	74.0	-15.7	1.43 V	293	9.90	48.40
6	11160.00	47.6 AV	54.0	-6.4	1.43 V	293	-0.80	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.2 PK	74.0	-25.8	1.05 H	267	12.10	36.10
2	4760.00	41.3 AV	54.0	-12.7	1.05 H	267	5.20	36.10
3	*5680.00	113.0 PK			1.07 H	299	75.20	37.80
4	*5680.00	99.7 AV			1.07 H	299	61.90	37.80
5	11360.00	57.1 PK	74.0	-16.9	1.64 H	325	9.00	48.10
6	11360.00	45.2 AV	54.0	-8.8	1.64 H	325	-2.90	48.10
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	4760.00	52.0 PK	74.0	-22.0	1.04 V	286	15.90	36.10
2	4760.00	43.1 AV	54.0	-10.9	1.04 V	286	7.00	36.10
3	*5680.00	115.8 PK			1.21 V	305	78.00	37.80
4	*5680.00	103.7 AV			1.21 V	305	65.90	37.80
5	11360.00	58.5 PK	74.0	-15.5	1.28 V	43	10.40	48.10
6	11360.00	47.8 AV	54.0	-6.2	1.28 V	43	-0.30	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	48.5 PK	74.0	-25.5	1.02 H	305	11.90	36.60
2	5040.00	42.8 AV	54.0	-11.2	1.02 H	305	6.20	36.60
3	*5700.00	112.7 PK			1.12 H	302	74.80	37.90
4	*5700.00	99.2 AV			1.12 H	302	61.30	37.90
5	#5725.00	66.2 PK	68.3	-2.1	1.55 H	235	28.20	38.00
6	11400.00	56.9 PK	74.0	-17.1	1.04 H	138	8.90	48.00
7	11400.00	45.5 AV	54.0	-8.5	1.04 H	138	-2.50	48.00
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	5040.00	50.9 PK	74.0	-23.1	1.00 V	235	14.30	36.60
2	5040.00	45.1 AV	54.0	-8.9	1.00 V	235	8.50	36.60
3	*5700.00	115.5 PK			1.18 V	268	77.60	37.90
4	*5700.00	103.3 AV			1.18 V	268	65.40	37.90
5	#5725.00	67.0 PK	68.3	-1.3	1.00 V	199	29.00	38.00
6	11400.00	58.9 PK	74.0	-15.1	1.39 V	207	10.90	48.00
7	11400.00	47.5 AV	54.0	-6.5	1.39 V	207	-0.50	48.00

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



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	49.9 PK	74.0	-24.1	1.13 H	292	13.80	36.10
2	4760.00	43.6 AV	54.0	-10.4	1.13 H	292	7.50	36.10
3	5150.00	47.9 PK	74.0	-26.1	1.60 H	288	11.20	36.70
4	5150.00	35.0 AV	54.0	-19.0	1.60 H	288	-1.70	36.70
5	*5270.00	110.6 PK			1.08 H	305	73.60	37.00
6	*5270.00	97.5 AV			1.08 H	305	60.50	37.00
7	#10540.00	57.3 PK	68.3	-11.0	1.33 H	47	8.90	48.40
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	4760.00	51.9 PK	74.0	-22.1	1.16 V	280	15.80	36.10
2	4760.00	46.5 AV	54.0	-7.5	1.16 V	280	10.40	36.10
3	5150.00	50.9 PK	74.0	-23.1	1.24 V	282	14.20	36.70
4	5150.00	35.6 AV	54.0	-18.4	1.24 V	282	-1.10	36.70
5	*5270.00	114.5 PK			1.05 V	315	77.50	37.00
6	*5270.00	101.3 AV			1.05 V	315	64.30	37.00
7	#10540.00	59.8 PK	68.3	-8.5	1.29 V	41	11.40	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.3 PK	74.0	-24.7	1.00 H	243	12.80	36.50
2	5000.00	41.1 AV	54.0	-12.9	1.00 H	243	4.60	36.50
3	*5310.00	110.3 PK			1.18 H	328	73.20	37.10
4	*5310.00	97.1 AV			1.18 H	328	60.00	37.10
5	5350.00	71.4 PK	74.0	-2.6	1.25 H	229	34.20	37.20
6	5350.00	50.1 AV	54.0	-3.9	1.25 H	229	12.90	37.20
7	10620.00	56.9 PK	74.0	-17.1	1.33 H	271	8.30	48.60
8	10620.00	45.8 AV	54.0	-8.2	1.33 H	271	-2.80	48.60
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	5000.00	53.4 PK	74.0	-20.6	1.00 V	300	16.90	36.50
2	5000.00	45.9 AV	54.0	-8.1	1.00 V	300	9.40	36.50
3	*5310.00	114.2 PK			1.01 V	298	77.10	37.10
4	*5310.00	101.0 AV			1.01 V	298	63.90	37.10
5	5350.00	71.8 PK	74.0	-2.2	1.02 V	283	34.60	37.20
6	5350.00	50.8 AV	54.0	-3.2	1.02 V	283	13.60	37.20
7	10620.00	58.3 PK	74.0	-15.7	1.05 V	65	9.70	48.60
8	10620.00	46.9 AV	54.0	-7.1	1.05 V	65	-1.70	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.7 PK	74.0	-25.3	1.00 H	290	12.60	36.10
2	4760.00	42.0 AV	54.0	-12.0	1.00 H	290	5.90	36.10
3	5460.00	65.2 PK	74.0	-8.8	1.33 H	207	27.90	37.30
4	5460.00	45.0 AV	54.0	-9.0	1.33 H	207	7.70	37.30
5	#5470.00	66.3 PK	68.3	-2.0	1.33 H	207	28.90	37.40
6	*5510.00	108.5 PK			1.05 H	299	71.10	37.40
7	*5510.00	95.0 AV			1.05 H	299	57.60	37.40
8	11020.00	56.5 PK	74.0	-17.5	1.34 H	283	7.80	48.70
9	11020.00	45.3 AV	54.0	-8.7	1.34 H	283	-3.40	48.70
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	4760.00	50.6 PK	74.0	-23.4	1.16 V	280	14.50	36.10
2	4760.00	45.0 AV	54.0	-9.0	1.16 V	280	8.90	36.10
3	5460.00	66.3 PK	74.0	-7.7	1.01 V	273	29.00	37.30
4	5460.00	47.7 AV	54.0	-6.3	1.01 V	273	10.40	37.30
5	#5470.00	66.7 PK	68.3	-1.6	1.01 V	273	29.30	37.40
6	*5510.00	112.2 PK			1.05 V	268	74.80	37.40
7	*5510.00	99.1 AV			1.05 V	268	61.70	37.40
8	11020.00	59.0 PK	74.0	-15.0	1.38 V	214	10.30	48.70
9	11020.00	47.9 AV	54.0	-6.1	1.38 V	214	-0.80	48.70

- 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 radiated frequency is out the restricted band.





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4760.00	48.5 PK	74.0	-25.5	1.12 H	290	12.40	36.10
2	4760.00	41.6 AV	54.0	-12.4	1.12 H	290	5.50	36.10
3	*5550.00	109.6 PK			1.27 H	165	72.10	37.50
4	*5550.00	96.2 AV			1.27 H	165	58.70	37.50
5	#5725.00	50.5 PK	68.3	-17.8	1.27 H	165	12.50	38.00
6	11100.00	56.8 PK	74.0	-17.2	1.04 H	307	8.30	48.50
7	11100.00	45.8 AV	54.0	-8.2	1.04 H	307	-2.70	48.50
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	4760.00	50.3 PK	74.0	-23.7	1.40 V	280	14.20	36.10
2	4760.00	44.8 AV	54.0	-9.2	1.40 V	280	8.70	36.10
3	*5550.00	113.3 PK			1.08 V	223	75.80	37.50
4	*5550.00	100.2 AV			1.08 V	223	62.70	37.50
5	#5725.00	51.8 PK	68.3	-16.5	1.08 V	223	13.80	38.00
6	11100.00	58.8 PK	74.0	-15.2	1.43 V	78	10.30	48.50
7	11100.00	47.5 AV	54.0	-6.5	1.43 V	78	-1.00	48.50

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



A D T

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	99.89	30.0 QP	43.5	-13.5	1.50 H	10	19.90	10.10
2	199.05	40.2 QP	43.5	-3.3	1.50 H	49	29.90	10.30
3	300.16	32.6 QP	46.0	-13.4	1.00 H	133	17.90	14.70
4	529.58	32.0 QP	46.0	-14.0	1.50 H	151	11.50	20.50
5	665.68	39.4 QP	46.0	-6.6	1.00 H	139	16.30	23.10
6	799.84	31.8 QP	46.0	-14.2	1.50 H	82	7.20	24.60

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	199.05	33.1 QP	43.5	-10.4	1.50 V	133	22.80	10.30
2	463.48	27.9 QP	46.0	-18.1	1.00 V	16	9.00	18.90
3	529.58	31.2 QP	46.0	-14.8	1.50 V	97	10.70	20.50
4	595.69	29.3 QP	46.0	-16.7	1.50 V	55	7.40	21.90
5	665.68	41.7 QP	46.0	-4.3	1.00 V	193	18.60	23.10
6	924.27	35.7 QP	46.0	-10.3	1.00 V	4	9.40	26.30

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	99.89	30.0 QP	43.5	-13.5	1.50 H	13	19.90	10.10
2	199.05	40.3 QP	43.5	-3.2	1.00 H	43	30.00	10.30
3	300.16	32.4 QP	46.0	-13.6	1.00 H	148	17.70	14.70
4	529.58	32.2 QP	46.0	-13.8	1.50 H	109	11.70	20.50
5	667.63	39.3 QP	46.0	-6.7	1.00 H	139	16.20	23.10
6	764.84	33.6 QP	46.0	-12.4	1.50 H	88	9.40	24.20
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	39.62	27.5 QP	40.0	-12.5	1.00 V	1	13.20	14.30
2	199.05	33.0 QP	43.5	-10.5	1.50 V	124	22.70	10.30
3	527.64	32.0 QP	46.0	-14.0	1.00 V	19	11.50	20.50
4	593.74	30.0 QP	46.0	-16.0	1.50 V	355	8.10	21.90
5	665.68	39.4 QP	46.0	-6.6	1.00 V	193	16.30	23.10
6	926.22	35.0 QP	46.0	-11.0	2.00 V	7	8.70	26.30

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

#### 4.1.10 TEST RESULTS (B1)

802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.3 PK	74.0	-22.7	1.15 H	178	14.80	36.50
2	5000.00	45.1 AV	54.0	-8.9	1.15 H	178	8.60	36.50
3	5120.00	55.2 PK	74.0	-18.8	1.09 H	217	18.50	36.70
4	5120.00	42.7 AV	54.0	-11.3	1.09 H	217	6.00	36.70
5	*5260.00	116.4 PK			1.17 H	105	79.40	37.00
6	*5260.00	104.3 AV			1.17 H	105	67.30	37.00
7	#10520.00	57.3 PK	68.3	-11.0	1.35 H	299	8.90	48.40
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	5000.00	49.2 PK	74.0	-24.8	1.23 V	228	12.70	36.50
2	5000.00	42.3 AV	54.0	-11.7	1.23 V	228	5.80	36.50
3	5120.00	49.0 PK	74.0	-25.0	1.48 V	247	12.30	36.70
4	5120.00	37.3 AV	54.0	-16.7	1.48 V	247	0.60	36.70
5	*5260.00	110.2 PK			1.44 V	299	73.20	37.00
6	*5260.00	98.5 AV			1.44 V	299	61.50	37.00
7	#10520.00	56.0 PK	68.3	-12.3	1.38 V	207	7.60	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	50.8 PK	74.0	-23.2	1.58 H	147	14.30	36.50
2	5000.00	44.0 AV	54.0	-10.0	1.58 H	147	7.50	36.50
3	*5300.00	116.1 PK			1.53 H	107	79.00	37.10
4	*5300.00	104.0 AV			1.53 H	107	66.90	37.10
5	10600.00	57.8 PK	74.0	-16.2	1.37 H	247	9.20	48.60
6	10600.00	46.8 AV	54.0	-7.2	1.37 H	247	-1.80	48.60
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	5000.00	49.1 PK	74.0	-24.9	1.22 V	32	12.60	36.50
2	5000.00	42.5 AV	54.0	-11.5	1.22 V	32	6.00	36.50
3	*5300.00	109.8 PK			1.22 V	32	72.70	37.10
4	*5300.00	98.2 AV			1.22 V	32	61.10	37.10
5	10600.00	57.2 PK	74.0	-16.8	1.45 V	239	8.60	48.60
6	10600.00	45.7 AV	54.0	-8.3	1.45 V	239	-2.90	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	50.7 PK	74.0	-23.3	1.32 H	45	14.10	36.60
2	5080.00	44.0 AV	54.0	-10.0	1.32 H	45	7.40	36.60
3	*5320.00	115.7 PK			1.15 H	105	78.50	37.20
4	*5320.00	103.7 AV			1.15 H	105	66.50	37.20
5	5360.00	63.0 PK	74.0	-11.0	1.37 H	248	25.80	37.20
6	5360.00	48.8 AV	54.0	-5.2	1.37 H	248	11.60	37.20
7	10640.00	57.3 PK	74.0	-16.7	1.08 H	311	8.70	48.60
8	10640.00	45.7 AV	54.0	-8.3	1.08 H	311	-2.90	48.60
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	5080.00	48.7 PK	74.0	-25.3	1.04 V	165	12.10	36.60
2	5080.00	42.3 AV	54.0	-11.7	1.04 V	165	5.70	36.60
3	*5320.00	109.5 PK			1.13 V	259	72.30	37.20
4	*5320.00	98.0 AV			1.13 V	259	60.80	37.20
5	5360.00	53.8 PK	74.0	-20.2	1.58 V	47	16.60	37.20
6	5360.00	42.9 AV	54.0	-11.1	1.58 V	47	5.70	37.20
7	10640.00	56.2 PK	74.0	-17.8	1.34 V	299	7.60	48.60
8	10640.00	44.5 AV	54.0	-9.5	1.34 V	299	-4.10	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.2 PK	74.0	-22.8	1.06 H	143	14.60	36.60
2	5080.00	44.8 AV	54.0	-9.2	1.06 H	143	8.20	36.60
3	5460.00	59.5 PK	74.0	-14.5	1.22 H	189	22.20	37.30
4	5460.00	39.0 AV	54.0	-15.0	1.22 H	189	1.70	37.30
5	#5470.00	61.5 PK	68.3	-6.8	1.22 H	189	24.10	37.40
6	*5500.00	115.3 PK			1.43 H	289	77.90	37.40
7	*5500.00	103.4 AV			1.43 H	288	66.00	37.40
8	11000.00	58.5 PK	74.0	-15.5	1.21 H	198	9.80	48.70
9	11000.00	47.0 AV	54.0	-7.0	1.21 H	198	-1.70	48.70
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	5080.00	48.2 PK	74.0	-25.8	1.35 V	117	11.60	36.60
2	5080.00	40.0 AV	54.0	-14.0	1.35 V	117	3.40	36.60
3	5460.00	50.9 PK	74.0	-23.1	1.36 V	47	13.60	37.30
4	5460.00	34.0 AV	54.0	-20.0	1.36 V	47	-3.30	37.30
5	#5470.00	54.5 PK	68.3	-13.8	1.36 V	47	17.10	37.40
6	*5500.00	109.2 PK			1.24 V	298	71.80	37.40
7	*5500.00	97.7 AV			1.24 V	298	60.30	37.40
8	11000.00	57.2 PK	74.0	-16.8	1.47 V	239	8.50	48.70
9	11000.00	46.1 AV	54.0	-7.9	1.47 V	239	-2.60	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.5 PK	74.0	-22.5	1.06 H	127	14.90	36.60
2	5080.00	44.0 AV	54.0	-10.0	1.06 H	127	7.40	36.60
3	*5580.00	115.0 PK			1.28 H	251	77.40	37.60
4	*5580.00	103.1 AV			1.28 H	251	65.50	37.60
5	11160.00	58.0 PK	74.0	-16.0	1.43 H	108	9.60	48.40
6	11160.00	46.8 AV	54.0	-7.2	1.43 H	108	-1.60	48.40
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	5080.00	47.8 PK	74.0	-26.2	1.27 V	108	11.20	36.60
2	5080.00	39.8 AV	54.0	-14.2	1.27 V	108	3.20	36.60
3	*5580.00	109.0 PK			1.33 V	178	71.40	37.60
4	*5580.00	97.3 AV			1.33 V	178	59.70	37.60
5	11160.00	57.2 PK	74.0	-16.8	1.56 V	157	8.80	48.40
6	11160.00	46.0 AV	54.0	-8.0	1.56 V	157	-2.40	48.40

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	53.0 PK	74.0	-21.0	1.24 H	163	15.80	37.20
2	5360.00	45.2 AV	54.0	-8.8	1.24 H	163	8.00	37.20
3	*5680.00	114.7 PK			1.07 H	142	76.90	37.80
4	*5680.00	102.8 AV			1.07 H	142	65.00	37.80
5	11360.00	58.0 PK	74.0	-16.0	1.05 H	188	9.90	48.10
6	11360.00	46.7 AV	54.0	-7.3	1.05 H	188	-1.40	48.10
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	5360.00	47.4 PK	74.0	-26.6	1.09 V	213	10.20	37.20
2	5360.00	40.2 AV	54.0	-13.8	1.09 V	213	3.00	37.20
3	*5680.00	108.5 PK			1.35 V	105	70.70	37.80
4	*5680.00	96.8 AV			1.35 V	105	59.00	37.80
5	11360.00	57.1 PK	74.0	-16.9	1.27 V	193	9.00	48.10
6	11360.00	45.4 AV	54.0	-8.6	1.27 V	193	-2.70	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	57.5 PK	74.0	-16.5	1.25 H	14	20.30	37.20
2	5360.00	50.3 AV	54.0	-3.7	1.25 H	14	13.10	37.20
3	*5700.00	112.7 PK			1.28 H	105	74.80	37.90
4	*5700.00	100.5 AV			1.28 H	105	62.60	37.90
5	#5725.00	66.4 PK	68.3	-1.9	1.17 H	308	28.40	38.00
6	11400.00	57.5 PK	74.0	-16.5	1.57 H	193	9.50	48.00
7	11400.00	46.4 AV	54.0	-7.6	1.59 H	193	-1.60	48.00
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	5360.00	51.0 PK	74.0	-23.0	1.33 V	178	13.80	37.20
2	5360.00	43.0 AV	54.0	-11.0	1.33 V	178	5.80	37.20
3	*5700.00	106.5 PK			1.29 V	52	68.60	37.90
4	*5700.00	94.7 AV			1.29 V	52	56.80	37.90
5	#5725.00	58.0 PK	68.3	-10.3	1.53 V	208	20.00	38.00
6	11400.00	56.8 PK	74.0	-17.2	1.47 V	105	8.80	48.00
7	11400.00	45.8 AV	54.0	-8.2	1.47 V	105	-2.20	48.00

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



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	52.0 PK	74.0	-22.0	1.08 H	212	15.40	36.60
2	5040.00	46.2 AV	54.0	-7.8	1.08 H	212	9.60	36.60
3	5120.00	49.3 PK	74.0	-24.7	1.29 H	108	12.60	36.70
4	5120.00	41.1 AV	54.0	-12.9	1.29 H	208	4.40	36.70
5	*5260.00	116.2 PK			1.45 H	98	79.20	37.00
6	*5260.00	104.0 AV			1.45 H	98	67.00	37.00
7	#10520.00	57.1 PK	68.3	-11.2	1.57 H	68	8.70	48.40
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	5040.00	49.4 PK	74.0	-24.6	1.82 V	299	12.80	36.60
2	5040.00	42.5 AV	54.0	-11.5	1.82 V	299	5.90	36.60
3	5120.00	45.7 PK	74.0	-28.3	1.37 V	257	9.00	36.70
4	5120.00	34.2 AV	54.0	-19.8	1.37 V	257	-2.50	36.70
5	*5260.00	110.0 PK			1.06 V	158	73.00	37.00
6	*5260.00	98.2 AV			1.06 V	158	61.20	37.00
7	#10520.00	56.4 PK	68.3	-11.9	1.42 V	108	8.00	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.2 PK	74.0	-22.8	1.35 H	156	14.60	36.60
2	5040.00	45.5 AV	54.0	-8.5	1.35 H	156	8.90	36.60
3	*5300.00	115.8 PK			1.48 H	198	78.70	37.10
4	*5300.00	103.7 AV			1.48 H	198	66.60	37.10
5	10600.00	58.2 PK	74.0	-15.8	1.15 H	293	9.60	48.60
6	10600.00	47.2 AV	54.0	-6.8	1.15 H	293	-1.40	48.60

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	5040.00	48.5 PK	74.0	-25.5	1.04 V	177	11.90	36.60
2	5040.00	40.0 AV	54.0	-14.0	1.04 V	177	3.40	36.60
3	*5300.00	109.7 PK			1.28 V	69	72.60	37.10
4	*5300.00	97.9 AV			1.28 V	69	60.80	37.10
5	11060.00	56.8 PK	74.0	-17.2	1.22 V	347	8.20	48.60
6	11060.00	46.3 AV	54.0	-7.7	1.22 V	347	-2.30	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	54.4 PK	74.0	-19.6	1.39 H	205	17.90	36.50
2	5000.00	47.5 AV	54.0	-6.5	1.39 H	205	11.00	36.50
3	*5320.00	115.5 PK			1.47 H	203	78.30	37.20
4	*5320.00	103.4 AV			1.47 H	203	66.20	37.20
5	5360.00	62.7 PK	74.0	-11.3	1.32 H	112	25.50	37.20
6	5360.00	48.2 AV	54.0	-5.8	1.32 H	112	11.00	37.20
7	10640.00	58.0 PK	74.0	-16.0	1.14 H	327	9.40	48.60
8	10640.00	47.0 AV	54.0	-7.0	1.14 H	327	-1.60	48.60

**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	5000.00	47.4 PK	74.0	-26.6	1.35 V	251	10.90	36.50
2	5000.00	38.8 AV	54.0	-15.2	1.35 V	251	2.30	36.50
3	*5320.00	109.5 PK			1.25 V	17	72.30	37.20
4	*5320.00	97.5 AV			1.25 V	17	60.30	37.20
5	5360.00	53.5 PK	74.0	-20.5	1.02 V	85	16.30	37.20
6	5360.00	42.6 AV	54.0	-11.4	1.02 V	85	5.40	37.20
7	10640.00	57.0 PK	74.0	-17.0	1.33 V	72	8.40	48.60
8	10640.00	45.7 AV	54.0	-8.3	1.33 V	72	-2.90	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	50.0 PK	74.0	-24.0	1.08 H	132	13.40	36.60
2	5040.00	45.5 AV	54.0	-8.5	1.08 H	132	8.90	36.60
3	5460.00	59.5 PK	74.0	-14.5	1.02 H	58	22.20	37.30
4	5460.00	39.7 AV	54.0	-14.3	1.02 H	58	2.40	37.30
5	#5470.00	62.8 PK	68.3	-5.5	1.08 H	58	25.40	37.40
6	*5500.00	115.2 PK			1.43 H	224	77.80	37.40
7	*5500.00	102.8 AV			1.43 H	224	65.40	37.40
8	11000.00	58.4 PK	74.0	-15.6	1.28 H	109	9.70	48.70
9	11000.00	47.2 AV	54.0	-6.8	1.28 H	109	-1.50	48.70
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	5040.00	47.8 PK	74.0	-26.2	1.05 V	277	11.20	36.60
2	5040.00	38.8 AV	54.0	-15.2	1.05 V	277	2.20	36.60
3	5460.00	52.4 PK	74.0	-21.6	1.65 V	299	15.10	37.30
4	5460.00	34.7 AV	54.0	-19.3	1.65 V	299	-2.60	37.30
5	#5470.00	57.0 PK	68.3	-11.3	1.53 V	178	19.60	37.40
6	*5500.00	109.0 PK			1.53 V	178	71.60	37.40
7	*5500.00	97.2 AV			1.09 V	215	59.80	37.40
8	11000.00	57.5 PK	74.0	-16.5	1.22 V	63	8.80	48.70
9	11000.00	46.5 AV	54.0	-7.5	1.22 V	63	-2.20	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.5 PK	74.0	-24.5	1.36 H	154	13.00	36.50
2	5000.00	43.2 AV	54.0	-10.8	1.36 H	154	6.70	36.50
3	*5580.00	114.5 PK			1.04 H	289	76.90	37.60
4	*5580.00	102.3 AV			1.04 H	289	64.70	37.60
5	11160.00	58.2 PK	74.0	-15.8	1.24 H	58	9.80	48.40
6	11160.00	47.0 AV	54.0	-7.0	1.24 H	58	-1.40	48.40
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	5000.00	47.0 PK	74.0	-27.0	1.29 V	135	10.50	36.50
2	5000.00	35.9 AV	54.0	-18.1	1.29 V	135	-0.60	36.50
3	*5580.00	108.5 PK			1.37 V	27	70.90	37.60
4	*5580.00	97.0 AV			1.37 V	27	59.40	37.60
5	11160.00	57.0 PK	74.0	-17.0	1.32 V	32	8.60	48.40
6	11160.00	46.0 AV	54.0	-8.0	1.32 V	32	-2.40	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	54.0 PK	74.0	-20.0	1.03 H	172	16.80	37.20
2	5360.00	47.2 AV	54.0	-6.8	1.32 H	172	10.00	37.20
3	*5680.00	114.2 PK			1.32 H	105	76.40	37.80
4	*5680.00	102.0 AV			1.32 H	105	64.20	37.80
5	11360.00	57.8 PK	74.0	-16.2	1.45 H	327	9.70	48.10
6	11360.00	47.0 AV	54.0	-7.0	1.45 H	327	-1.10	48.10
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	5360.00	47.8 PK	74.0	-26.2	1.03 V	51	10.60	37.20
2	5360.00	40.4 AV	54.0	-13.6	1.03 V	51	3.20	37.20
3	*5680.00	108.3 PK			1.29 V	177	70.50	37.80
4	*5680.00	96.7 AV			1.29 V	177	58.90	37.80
5	11360.00	57.0 PK	74.0	-17.0	1.35 V	299	8.90	48.10
6	11360.00	46.0 AV	54.0	-8.0	1.35 V	299	-2.10	48.10

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	54.3 PK	74.0	-19.7	1.07 H	168	17.10	37.20
2	5360.00	46.5 AV	54.0	-7.5	1.07 H	168	9.30	37.20
3	*5700.00	112.3 PK			1.25 H	63	74.40	37.90
4	*5700.00	100.2 AV			1.25 H	63	62.30	37.90
5	#5725.00	66.8 PK	68.3	-1.5	1.36 H	172	28.80	38.00
6	11400.00	58.0 PK	74.0	-16.0	1.04 H	88	10.00	48.00
7	11400.00	47.2 AV	54.0	-6.8	1.04 H	88	-0.80	48.00
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	5360.00	48.2 PK	74.0	-25.8	1.53 V	207	11.00	37.20
2	5360.00	40.7 AV	54.0	-13.3	1.53 V	207	3.50	37.20
3	*5700.00	107.5 PK			1.26 V	32	69.60	37.90
4	*5700.00	96.4 AV			1.26 V	32	58.50	37.90
5	#5725.00	51.0 PK	68.3	-17.3	1.22 V	53	13.00	38.00
6	11400.00	57.3 PK	74.0	-16.7	1.48 V	265	9.30	48.00
7	11400.00	46.4 AV	54.0	-7.6	1.48 V	265	-1.60	48.00

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



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.0 PK	74.0	-23.0	1.02 H	153	14.50	36.50
2	5000.00	44.7 AV	54.0	-9.3	1.02 H	153	8.20	36.50
3	5120.00	55.0 PK	74.0	-19.0	1.22 H	107	18.30	36.70
4	5120.00	42.5 AV	54.0	-11.5	1.22 H	107	5.80	36.70
5	*5270.00	114.7 PK			1.31 H	35	77.70	37.00
6	*5270.00	102.8 AV			1.31 H	35	65.80	37.00
7	#10540.00	57.2 PK	68.3	-11.1	1.05 H	327	8.80	48.40
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	5000.00	49.2 PK	74.0	-24.8	1.43 V	188	12.70	36.50
2	5000.00	42.4 AV	54.0	-11.6	1.43 V	188	5.90	36.50
3	5120.00	48.8 PK	74.0	-25.2	1.56 V	112	12.10	36.70
4	5120.00	37.2 AV	54.0	-16.8	1.56 V	112	0.50	36.70
5	*5270.00	108.7 PK			1.02 V	62	71.70	37.00
6	*5270.00	96.5 AV			1.02 V	62	59.50	37.00
7	#10540.00	56.0 PK	68.3	-12.3	1.27 V	113	7.60	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	50.0 PK	74.0	-24.0	1.03 H	154	13.40	36.60
2	5080.00	43.8 AV	54.0	-10.2	1.03 H	154	7.20	36.60
3	*5310.00	114.5 PK			1.36 H	105	77.40	37.10
4	*5310.00	102.3 AV			1.36 H	105	65.20	37.10
5	5350.00	72.2 PK	74.0	-1.8	1.05 H	188	35.00	37.20
6	5350.00	52.6 AV	54.0	-1.4	1.05 H	188	15.40	37.20
7	10620.00	57.1 PK	74.0	-16.9	1.27 H	62	8.50	48.60
8	10620.00	45.2 AV	54.0	-8.8	1.27 H	62	-3.40	48.60
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	5080.00	48.6 PK	74.0	-25.4	1.03 V	352	12.00	36.60
2	5080.00	42.4 AV	54.0	-11.6	1.03 V	352	5.80	36.60
3	*5310.00	108.3 PK			1.22 V	198	71.20	37.10
4	*5310.00	96.3 AV			1.22 V	198	59.20	37.10
5	5350.00	64.1 PK	74.0	-9.9	1.53 V	14	26.90	37.20
6	5350.00	46.2 AV	54.0	-7.8	1.53 V	14	9.00	37.20
7	10620.00	56.2 PK	74.0	-17.8	1.05 V	63	7.60	48.60
8	10620.00	44.2 AV	54.0	-9.8	1.05 V	63	-4.40	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.0 PK	74.0	-23.0	1.23 H	158	14.40	36.60
2	5080.00	44.5 AV	54.0	-9.5	1.23 H	158	7.90	36.60
3	5460.00	58.5 PK	74.0	-15.5	1.63 H	107	21.20	37.30
4	5460.00	41.5 AV	54.0	-12.5	1.63 H	107	4.20	37.30
5	#5470.00	67.1 PK	68.3	-1.2	1.05 H	199	29.70	37.40
6	*5510.00	110.2 PK			1.05 H	213	72.80	37.40
7	*5510.00	98.0 AV			1.05 H	213	60.60	37.40
8	11020.00	58.0 PK	74.0	-16.0	1.34 H	288	9.30	48.70
9	11020.00	47.0 AV	54.0	-7.0	1.34 H	288	-1.70	48.70
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	5080.00	47.8 PK	74.0	-26.2	1.03 V	178	11.20	36.60
2	5080.00	39.7 AV	54.0	-14.3	1.03 V	178	3.10	36.60
3	5460.00	53.5 PK	74.0	-20.5	1.22 V	236	16.20	37.30
4	5460.00	36.2 AV	54.0	-17.8	1.22 V	236	-1.10	37.30
5	#5470.00	59.8 PK	68.3	-8.5	1.22 V	236	22.40	37.40
6	*5510.00	104.2 PK			1.32 V	52	66.80	37.40
7	*5510.00	92.2 AV			1.32 V	52	54.80	37.40
8	11020.00	57.0 PK	74.0	-17.0	1.07 V	199	8.30	48.70
9	11020.00	46.0 AV	54.0	-8.0	1.07 V	199	-2.70	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.2 PK	74.0	-22.8	1.09 H	132	14.60	36.60
2	5080.00	43.8 AV	54.0	-10.2	1.09 H	132	7.20	36.60
3	*5550.00	113.5 PK			1.22 H	263	76.00	37.50
4	*5550.00	101.5 AV			1.22 H	263	64.00	37.50
5	#5725.00	51.6 PK	68.3	-16.7	1.22 H	263	13.60	38.00
6	11100.00	58.0 PK	74.0	-16.0	1.04 H	122	9.50	48.50
7	11100.00	46.5 AV	54.0	-7.5	1.04 H	122	-2.00	48.50
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	5080.00	47.5 PK	74.0	-26.5	1.63 V	114	10.90	36.60
2	5080.00	39.7 AV	54.0	-14.3	1.63 V	114	3.10	36.60
3	*5550.00	107.3 PK			1.28 V	163	69.80	37.50
4	*5550.00	95.2 AV			1.28 V	163	57.70	37.50
5	#5725.00	50.7 PK	68.3	-17.6	1.28 V	163	12.70	38.00
6	11100.00	57.0 PK	74.0	-17.0	1.25 V	102	8.50	48.50
7	11100.00	45.7 AV	54.0	-8.3	1.25 V	102	-2.80	48.50

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

**BELOW 1GHz WORST-CASE DATA : 802.11a**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	74.62	32.1 QP	40.0	-7.9	1.25 H	37	21.40	10.70
2	166.00	36.4 QP	43.5	-7.1	1.25 H	185	22.60	13.80
3	232.11	41.2 QP	46.0	-4.8	1.25 H	268	29.30	11.90
4	300.16	37.6 QP	46.0	-8.4	1.25 H	223	22.90	14.70
5	337.10	35.4 QP	46.0	-10.6	1.25 H	211	19.80	15.60
6	801.78	35.8 QP	46.0	-10.2	1.25 H	199	11.10	24.70
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	30.14	32.7 QP	40.0	-7.3	1.25 V	53	20.20	12.50
2	140.72	31.9 QP	43.5	-11.6	1.25 V	267	17.90	14.00
3	201.00	31.6 QP	43.5	-11.9	1.25 V	132	21.30	10.30
4	337.10	29.0 QP	46.0	-17.0	1.00 V	262	13.40	15.60
5	599.58	29.8 QP	46.0	-16.2	1.25 V	247	7.80	22.00
6	768.73	32.0 QP	46.0	-14.0	1.50 V	89	7.70	24.30

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	74.62	33.2 QP	40.0	-6.8	1.00 H	268	22.50	10.70
2	138.78	35.7 QP	43.5	-7.8	1.25 H	213	21.80	13.90
3	226.27	42.3 QP	46.0	-3.7	1.75 H	199	30.70	11.60
4	300.16	41.3 QP	46.0	-4.7	1.25 H	283	26.60	14.70
5	601.52	30.8 QP	46.0	-15.2	1.25 H	200	8.80	22.00
6	760.95	35.7 QP	46.0	-10.3	1.50 H	122	11.50	24.20
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	30.00	32.3 QP	40.0	-7.7	1.00 V	7	19.80	12.50
2	123.23	28.9 QP	43.5	-14.6	1.00 V	304	16.30	12.60
3	191.28	33.3 QP	43.5	-10.2	1.00 V	217	22.10	11.20
4	230.16	29.9 QP	46.0	-16.1	1.00 V	187	18.10	11.80
5	375.98	28.1 QP	46.0	-17.9	1.50 V	34	11.60	16.50
6	525.69	27.0 QP	46.0	-19.0	1.00 V	250	6.60	20.40

- 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.

#### 4.1.11 TEST RESULTS (B2)

##### 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.8 PK	74.0	-22.2	1.24 H	287	15.30	36.50
2	5000.00	45.5 AV	54.0	-8.5	1.24 H	287	9.00	36.50
3	5120.00	55.6 PK	74.0	-18.4	1.02 H	53	18.90	36.70
4	5120.00	43.3 AV	54.0	-10.7	1.02 H	53	6.60	36.70
5	*5260.00	116.7 PK			1.00 H	46	79.70	37.00
6	*5260.00	104.8 AV			1.00 H	46	67.80	37.00
7	#10520.00	57.4 PK	68.3	-10.9	1.08 H	352	9.00	48.40
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	5000.00	49.8 PK	74.0	-24.2	1.38 V	325	13.30	36.50
2	5000.00	43.0 AV	54.0	-11.0	1.38 V	325	6.50	36.50
3	5120.00	49.5 PK	74.0	-24.5	1.62 V	329	12.80	36.70
4	5120.00	37.9 AV	54.0	-16.1	1.62 V	329	1.20	36.70
5	*5260.00	110.7 PK			1.50 V	2	73.70	37.00
6	*5260.00	98.9 AV			1.50 V	2	61.90	37.00
7	#10520.00	56.7 PK	68.3	-11.6	1.50 V	193	8.30	48.40

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.3 PK	74.0	-22.7	1.63 H	328	14.80	36.50
2	5000.00	44.3 AV	54.0	-9.7	1.63 H	328	7.80	36.50
3	*5300.00	116.3 PK			1.47 H	92	79.20	37.10
4	*5300.00	104.3 AV			1.47 H	92	67.20	37.10
5	10600.00	58.2 PK	74.0	-15.8	1.12 H	323	9.60	48.60
6	10600.00	47.1 AV	54.0	-6.9	1.12 H	323	-1.50	48.60
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	5000.00	49.5 PK	74.0	-24.5	1.05 V	256	13.00	36.50
2	5000.00	42.8 AV	54.0	-11.2	1.05 V	256	6.30	36.50
3	*5300.00	110.2 PK			1.63 V	58	73.10	37.10
4	*5300.00	98.5 AV			1.63 V	58	61.40	37.10
5	10600.00	57.6 PK	74.0	-16.4	1.35 V	228	9.00	48.60
6	10600.00	46.1 AV	54.0	-7.9	1.35 V	228	-2.50	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.1 PK	74.0	-22.9	1.09 H	277	14.50	36.60
2	5080.00	44.5 AV	54.0	-9.5	1.09 H	277	7.90	36.60
3	*5320.00	116.0 PK			1.32 H	43	78.80	37.20
4	*5320.00	104.0 AV			1.32 H	43	66.80	37.20
5	5360.00	63.4 PK	74.0	-10.6	1.28 H	282	26.20	37.20
6	5360.00	48.2 AV	54.0	-5.8	1.28 H	282	11.00	37.20
7	10640.00	57.9 PK	74.0	-16.1	1.28 H	235	9.30	48.60
8	10640.00	46.2 AV	54.0	-7.8	1.28 H	235	-2.40	48.60
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	5080.00	49.3 PK	74.0	-24.7	1.13 V	211	12.70	36.60
2	5080.00	43.0 AV	54.0	-11.0	1.13 V	211	6.40	36.60
3	*5320.00	109.8 PK			1.04 V	198	72.60	37.20
4	*5320.00	98.2 AV			1.04 V	198	61.00	37.20
5	5360.00	54.3 PK	74.0	-19.7	1.77 V	8	17.10	37.20
6	5360.00	42.3 AV	54.0	-11.7	1.77 V	8	5.10	37.20
7	10640.00	56.9 PK	74.0	-17.1	1.08 V	358	8.30	48.60
8	10640.00	45.1 AV	54.0	-8.9	1.08 V	358	-3.50	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.6 PK	74.0	-22.4	1.22 H	279	15.00	36.60
2	5080.00	45.2 AV	54.0	-8.8	1.22 H	279	8.60	36.60
3	5460.00	59.9 PK	74.0	-14.1	1.35 H	297	22.60	37.30
4	5460.00	39.4 AV	54.0	-14.6	1.35 H	297	2.10	37.30
5	#5470.00	61.8 PK	68.3	-6.5	1.35 H	297	24.40	37.40
6	*5500.00	115.7 PK			1.22 H	323	78.30	37.40
7	*5500.00	103.5 AV			1.22 H	323	66.10	37.40
8	11000.00	58.9 PK	74.0	-15.1	1.07 H	293	10.20	48.70
9	11000.00	47.5 AV	54.0	-6.5	1.07 H	293	-1.20	48.70
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	5080.00	48.6 PK	74.0	-25.4	1.76 V	325	12.00	36.60
2	5080.00	40.4 AV	54.0	-13.6	1.76 V	325	3.80	36.60
3	5460.00	51.2 PK	74.0	-22.8	1.57 V	320	13.90	37.30
4	5460.00	34.4 AV	54.0	-19.6	1.57 V	320	-2.90	37.30
5	#5470.00	54.9 PK	68.3	-13.4	1.57 V	320	17.50	37.40
6	*5500.00	109.4 PK			1.05 V	347	72.00	37.40
7	*5500.00	97.8 AV			1.05 V	347	60.40	37.40
8	11000.00	57.6 PK	74.0	-16.4	1.35 V	253	8.90	48.70
9	11000.00	46.5 AV	54.0	-7.5	1.35 V	253	-2.20	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.9 PK	74.0	-22.1	1.22 H	278	15.30	36.60
2	5080.00	44.4 AV	54.0	-9.6	1.22 H	278	7.80	36.60
3	*5580.00	115.3 PK			1.07 H	298	77.70	37.60
4	*5580.00	103.1 AV			1.07 H	298	65.50	37.60
5	11160.00	58.6 PK	74.0	-15.4	1.28 H	98	10.20	48.40
6	11160.00	47.3 AV	54.0	-6.7	1.28 H	98	-1.10	48.40
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	5080.00	48.3 PK	74.0	-25.7	1.63 V	258	11.70	36.60
2	5080.00	40.2 AV	54.0	-13.8	1.63 V	258	3.60	36.60
3	*5580.00	109.1 PK			1.43 V	269	71.50	37.60
4	*5580.00	97.4 AV			1.43 V	269	59.80	37.60
5	11160.00	57.8 PK	74.0	-16.2	1.14 V	317	9.40	48.40
6	11160.00	46.3 AV	54.0	-7.7	1.14 V	317	-2.10	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	53.4 PK	74.0	-20.6	1.36 H	288	16.20	37.20
2	5360.00	45.5 AV	54.0	-8.5	1.36 H	288	8.30	37.20
3	*5680.00	115.0 PK			1.15 H	247	77.20	37.80
4	*5680.00	102.7 AV			1.15 H	247	64.90	37.80
5	11360.00	58.5 PK	74.0	-15.5	1.39 H	27	10.40	48.10
6	11360.00	47.1 AV	54.0	-6.9	1.39 H	27	-1.00	48.10
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	5360.00	47.9 PK	74.0	-26.1	1.43 V	152	10.70	37.20
2	5360.00	40.5 AV	54.0	-13.5	1.43 V	152	3.30	37.20
3	*5680.00	108.7 PK			1.21 V	63	70.90	37.80
4	*5680.00	97.0 AV			1.21 V	63	59.20	37.80
5	11360.00	57.5 PK	74.0	-16.5	1.05 V	358	9.40	48.10
6	11360.00	45.8 AV	54.0	-8.2	1.05 V	358	-2.30	48.10

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	57.7 PK	74.0	-16.3	1.36 H	275	20.50	37.20
2	5360.00	50.8 AV	54.0	-3.2	1.36 H	275	13.60	37.20
3	*5700.00	112.9 PK			1.08 H	326	75.00	37.90
4	*5700.00	100.8 AV			1.08 H	326	62.90	37.90
5	#5725.00	66.7 PK	68.3	-1.6	1.31 H	296	28.70	38.00
6	11400.00	57.7 PK	74.0	-16.3	1.02 H	343	9.70	48.00
7	11400.00	46.8 AV	54.0	-7.2	1.02 H	343	-1.20	48.00
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	5360.00	51.4 PK	74.0	-22.6	1.92 V	353	14.20	37.20
2	5360.00	43.4 AV	54.0	-10.6	1.92 V	353	6.20	37.20
3	*5700.00	106.7 PK			1.12 V	243	68.80	37.90
4	*5700.00	95.0 AV			1.12 V	243	57.10	37.90
5	#5725.00	58.2 PK	68.3	-10.1	1.68 V	332	20.20	38.00
6	11400.00	57.2 PK	74.0	-16.8	1.38 V	52	9.20	48.00
7	11400.00	46.1 AV	54.0	-7.9	1.38 V	52	-1.90	48.00

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



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	52.2 PK	74.0	-21.8	1.24 H	267	15.60	36.60
2	5040.00	46.6 AV	54.0	-7.4	1.24 H	267	10.00	36.60
3	5120.00	49.8 PK	74.0	-24.2	1.00 H	275	13.10	36.70
4	5120.00	41.4 AV	54.0	-12.6	1.00 H	275	4.70	36.70
5	*5260.00	116.5 PK			1.07 H	104	79.50	37.00
6	*5260.00	104.5 AV			1.07 H	104	67.50	37.00
7	#10520.00	57.5 PK	68.3	-10.8	1.31 H	48	9.10	48.40

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	5040.00	49.8 PK	74.0	-24.2	2.09 V	320	13.20	36.60
2	5040.00	42.8 AV	54.0	-11.2	2.09 V	320	6.20	36.60
3	5120.00	46.1 PK	74.0	-27.9	1.62 V	253	9.40	36.70
4	5120.00	35.0 AV	54.0	-19.0	1.62 V	253	-1.70	36.70
5	*5260.00	110.5 PK			1.43 V	253	73.50	37.00
6	*5260.00	98.6 AV			1.43 V	253	61.60	37.00
7	#10520.00	56.9 PK	68.3	-11.4	1.12 V	98	8.50	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.7 PK	74.0	-22.3	1.12 H	275	15.10	36.60
2	5040.00	45.9 AV	54.0	-8.1	1.12 H	275	9.30	36.60
3	*5300.00	116.1 PK			1.05 H	217	79.00	37.10
4	*5300.00	104.0 AV			1.05 H	217	66.90	37.10
5	10600.00	58.5 PK	74.0	-15.5	1.52 H	263	9.90	48.60
6	10600.00	47.5 AV	54.0	-6.5	1.52 H	263	-1.10	48.60
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	5040.00	48.7 PK	74.0	-25.3	1.35 V	316	12.10	36.60
2	5040.00	40.3 AV	54.0	-13.7	1.35 V	316	3.70	36.60
3	*5300.00	110.1 PK			1.24 V	352	73.00	37.10
4	*5300.00	98.2 AV			1.24 V	352	61.10	37.10
5	11060.00	57.1 PK	74.0	-16.9	1.08 V	122	8.50	48.60
6	11060.00	46.6 AV	54.0	-7.4	1.08 V	122	-2.00	48.60

- 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.





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	54.7 PK	74.0	-19.3	1.25 H	267	18.20	36.50
2	5000.00	47.8 AV	54.0	-6.2	1.25 H	267	11.30	36.50
3	*5320.00	115.7 PK			1.12 H	277	78.50	37.20
4	*5320.00	103.5 AV			1.12 H	277	66.30	37.20
5	5360.00	63.0 PK	74.0	-11.0	1.24 H	277	25.80	37.20
6	5360.00	46.5 AV	54.0	-7.5	1.24 H	277	9.30	37.20
7	10640.00	58.4 PK	74.0	-15.6	1.37 H	205	9.80	48.60
8	10640.00	47.2 AV	54.0	-6.8	1.37 H	205	-1.40	48.60
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	5000.00	47.9 PK	74.0	-26.1	1.12 V	310	11.40	36.50
2	5000.00	39.1 AV	54.0	-14.9	1.12 V	310	2.60	36.50
3	*5320.00	109.7 PK			1.35 V	143	72.50	37.20
4	*5320.00	97.6 AV			1.35 V	143	60.40	37.20
5	5360.00	52.1 PK	74.0	-21.9	1.51 V	255	14.90	37.20
6	5360.00	37.8 AV	54.0	-16.2	1.51 V	255	0.60	37.20
7	10640.00	57.5 PK	74.0	-16.5	1.45 V	278	8.90	48.60
8	10640.00	46.1 AV	54.0	-7.9	1.45 V	278	-2.50	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	50.4 PK	74.0	-23.6	1.00 H	276	13.80	36.60
2	5040.00	45.7 AV	54.0	-8.3	1.00 H	276	9.10	36.60
3	5460.00	59.8 PK	74.0	-14.2	1.12 H	285	22.50	37.30
4	5460.00	40.0 AV	54.0	-14.0	1.12 H	285	2.70	37.30
5	#5470.00	63.1 PK	68.3	-5.2	1.12 H	285	25.70	37.40
6	*5500.00	115.2 PK			1.07 H	275	77.80	37.40
7	*5500.00	103.1 AV			1.07 H	275	65.70	37.40
8	11000.00	58.9 PK	74.0	-15.1	1.15 H	72	10.20	48.70
9	11000.00	47.6 AV	54.0	-6.4	1.15 H	72	-1.10	48.70
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	5040.00	48.2 PK	74.0	-25.8	1.28 V	182	11.60	36.60
2	5040.00	39.2 AV	54.0	-14.8	1.28 V	182	2.60	36.60
3	5460.00	52.8 PK	74.0	-21.2	1.89 V	308	15.50	37.30
4	5460.00	35.2 AV	54.0	-18.8	1.89 V	308	-2.10	37.30
5	#5470.00	57.3 PK	68.3	-11.0	1.89 V	308	19.90	37.40
6	*5500.00	109.2 PK			1.09 V	215	71.80	37.40
7	*5500.00	97.2 AV			1.09 V	215	59.80	37.40
8	11000.00	57.9 PK	74.0	-16.1	1.35 V	225	9.20	48.70
9	11000.00	46.8 AV	54.0	-7.2	1.35 V	225	-1.90	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.8 PK	74.0	-24.2	1.12 H	265	13.30	36.50
2	5000.00	43.6 AV	54.0	-10.4	1.12 H	265	7.10	36.50
3	*5580.00	114.7 PK			1.21 H	23	77.10	37.60
4	*5580.00	102.7 AV			1.21 H	23	65.10	37.60
5	11160.00	58.5 PK	74.0	-15.5	1.08 H	275	10.10	48.40
6	11160.00	47.3 AV	54.0	-6.7	1.08 H	275	-1.10	48.40
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	5000.00	47.3 PK	74.0	-26.7	1.05 V	310	10.80	36.50
2	5000.00	36.3 AV	54.0	-17.7	1.05 V	310	-0.20	36.50
3	*5580.00	108.8 PK			1.12 V	351	71.20	37.60
4	*5580.00	97.7 AV			1.12 V	351	60.10	37.60
5	11160.00	57.6 PK	74.0	-16.4	1.45 V	282	9.20	48.40
6	11160.00	46.5 AV	54.0	-7.5	1.45 V	282	-1.90	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	54.5 PK	74.0	-19.5	1.25 H	275	17.30	37.20
2	5360.00	47.5 AV	54.0	-6.5	1.25 H	275	10.30	37.20
3	*5680.00	114.3 PK			1.16 H	68	76.50	37.80
4	*5680.00	102.2 AV			1.16 H	68	64.40	37.80
5	11360.00	58.2 PK	74.0	-15.8	1.62 H	237	10.10	48.10
6	11360.00	47.5 AV	54.0	-6.5	1.62 H	237	-0.60	48.10
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	5360.00	48.3 PK	74.0	-25.7	1.35 V	318	11.10	37.20
2	5360.00	40.9 AV	54.0	-13.1	1.35 V	318	3.70	37.20
3	*5680.00	108.3 PK			1.23 V	285	70.50	37.80
4	*5680.00	97.2 AV			1.23 V	285	59.40	37.80
5	11360.00	57.4 PK	74.0	-16.6	1.04 V	328	9.30	48.10
6	11360.00	46.3 AV	54.0	-7.7	1.04 V	328	-1.80	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	54.6 PK	74.0	-19.4	1.35 H	278	17.40	37.20
2	5360.00	46.9 AV	54.0	-7.1	1.35 H	278	9.70	37.20
3	*5700.00	112.6 PK			1.02 H	288	74.70	37.90
4	*5700.00	100.5 AV			1.02 H	288	62.60	37.90
5	#5725.00	67.2 PK	68.3	-1.1	1.00 H	290	29.20	38.00
6	11400.00	58.5 PK	74.0	-15.5	1.53 H	89	10.50	48.00
7	11400.00	47.6 AV	54.0	-6.4	1.53 H	89	-0.40	48.00
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	5360.00	48.7 PK	74.0	-25.3	1.18 V	296	11.50	37.20
2	5360.00	41.0 AV	54.0	-13.0	1.18 V	296	3.80	37.20
3	*5700.00	107.8 PK			1.09 V	247	69.90	37.90
4	*5700.00	96.7 AV			1.09 V	247	58.80	37.90
5	#5725.00	51.4 PK	68.3	-16.9	1.47 V	171	13.40	38.00
6	11400.00	57.8 PK	74.0	-16.2	1.35 V	289	9.80	48.00
7	11400.00	46.8 AV	54.0	-7.2	1.35 V	289	-1.20	48.00

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.3 PK	74.0	-22.7	1.25 H	269	14.80	36.50
2	5000.00	45.1 AV	54.0	-8.9	1.25 H	269	8.60	36.50
3	5120.00	55.3 PK	74.0	-18.7	1.01 H	60	18.60	36.70
4	5120.00	42.8 AV	54.0	-11.2	1.01 H	60	6.10	36.70
5	*5270.00	115.0 PK			1.01 H	50	78.00	37.00
6	*5270.00	103.1 AV			1.01 H	50	66.10	37.00
7	#10540.00	57.6 PK	68.3	-10.7	1.10 H	29	9.20	48.40
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	5000.00	49.5 PK	74.0	-24.5	1.08 V	233	13.00	36.50
2	5000.00	42.8 AV	54.0	-11.2	1.08 V	233	6.30	36.50
3	5120.00	49.2 PK	74.0	-24.8	1.58 V	320	12.50	36.70
4	5120.00	37.5 AV	54.0	-16.5	1.58 V	320	0.80	36.70
5	*5270.00	109.0 PK			1.48 V	11	72.00	37.00
6	*5270.00	97.0 AV			1.48 V	11	60.00	37.00
7	#10540.00	56.5 PK	68.3	-11.8	1.05 V	28	8.10	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	50.6 PK	74.0	-23.4	1.10 H	279	14.00	36.60
2	5080.00	44.2 AV	54.0	-9.8	1.10 H	279	7.60	36.60
3	*5310.00	114.6 PK			1.28 H	45	77.50	37.10
4	*5310.00	102.5 AV			1.28 H	45	65.40	37.10
5	5350.00	72.9 PK	74.0	-1.1	1.23 H	278	35.70	37.20
6	5350.00	52.8 AV	54.0	-1.2	1.23 H	278	15.60	37.20
7	10620.00	57.5 PK	74.0	-16.5	1.13 H	249	8.90	48.60
8	10620.00	45.8 AV	54.0	-8.2	1.13 H	249	-2.80	48.60
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	5080.00	49.0 PK	74.0	-25.0	1.11 V	209	12.40	36.60
2	5080.00	42.8 AV	54.0	-11.2	1.11 V	209	6.20	36.60
3	*5310.00	108.5 PK			1.03 V	201	71.40	37.10
4	*5310.00	96.6 AV			1.03 V	201	59.50	37.10
5	5350.00	64.4 PK	74.0	-9.6	1.03 V	201	27.20	37.20
6	5350.00	46.6 AV	54.0	-7.4	1.03 V	201	9.40	37.20
7	10620.00	56.6 PK	74.0	-17.4	1.13 V	249	8.00	48.60
8	10620.00	44.8 AV	54.0	-9.2	1.13 V	249	-3.80	48.60

- 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 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.3 PK	74.0	-22.7	1.08 H	262	14.70	36.60
2	5080.00	44.9 AV	54.0	-9.1	1.08 H	262	8.30	36.60
3	5460.00	58.9 PK	74.0	-15.1	1.13 H	288	21.60	37.30
4	5460.00	41.8 AV	54.0	-12.2	1.13 H	288	4.50	37.30
5	#5470.00	67.3 PK	68.3	-1.0	1.13 H	288	29.90	37.40
6	*5510.00	110.5 PK			1.20 H	329	73.10	37.40
7	*5510.00	98.2 AV			1.20 H	329	60.80	37.40
8	11020.00	58.5 PK	74.0	-15.5	1.03 H	222	9.80	48.70
9	11020.00	47.2 AV	54.0	-6.8	1.03 H	222	-1.50	48.70
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	5080.00	48.2 PK	74.0	-25.8	1.19 V	238	11.60	36.60
2	5080.00	40.1 AV	54.0	-13.9	1.19 V	238	3.50	36.60
3	5460.00	53.9 PK	74.0	-20.1	1.53 V	300	16.60	37.30
4	5460.00	36.6 AV	54.0	-17.4	1.53 V	300	-0.70	37.30
5	#5470.00	60.2 PK	68.3	-8.1	1.04 V	340	22.80	37.40
6	*5510.00	104.5 PK			1.04 V	345	67.10	37.40
7	*5510.00	92.4 AV			1.04 V	345	55.00	37.40
8	11020.00	57.2 PK	74.0	-16.8	1.14 V	228	8.50	48.70
9	11020.00	46.3 AV	54.0	-7.7	1.14 V	228	-2.40	48.70

- 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 radiated frequency is out the restricted band.





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	51.5 PK	74.0	-22.5	1.04 H	229	14.90	36.60
2	5080.00	44.2 AV	54.0	-9.8	1.04 H	229	7.60	36.60
3	*5550.00	113.7 PK			1.09 H	300	76.20	37.50
4	*5550.00	101.8 AV			1.09 H	300	64.30	37.50
5	#5725.00	51.6 PK	68.3	-16.7	1.09 H	300	13.60	38.00
6	11100.00	58.2 PK	74.0	-15.8	1.10 H	235	9.70	48.50
7	11100.00	47.0 AV	54.0	-7.0	1.10 H	235	-1.50	48.50
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	5080.00	48.1 PK	74.0	-25.9	1.04 V	269	11.50	36.60
2	5080.00	40.0 AV	54.0	-14.0	1.04 V	269	3.40	36.60
3	*5550.00	107.6 PK			1.41 V	262	70.10	37.50
4	*5550.00	95.5 AV			1.41 V	262	58.00	37.50
5	#5725.00	51.1 PK	68.3	-17.2	1.41 V	262	13.10	38.00
6	11100.00	57.5 PK	74.0	-16.5	1.03 V	66	9.00	48.50
7	11100.00	46.1 AV	54.0	-7.9	1.03 V	66	-2.40	48.50

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

**BELOW 1GHz WORST-CASE DATA : 802.11a**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	166.00	37.8 QP	43.5	-5.7	1.50 H	217	24.00	13.80
2	232.11	41.6 QP	46.0	-4.4	1.00 H	280	29.70	11.90
3	300.16	38.1 QP	46.0	-7.9	1.00 H	214	23.40	14.70
4	375.98	32.8 QP	46.0	-13.2	1.00 H	271	16.30	16.50
5	747.34	36.2 QP	46.0	-9.8	1.50 H	250	12.20	24.00
6	801.78	36.1 QP	46.0	-9.9	1.00 H	154	11.40	24.70
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	55.18	32.7 QP	40.0	-7.3	1.50 V	241	18.90	13.80
2	140.72	31.3 QP	43.5	-12.2	1.00 V	301	17.30	14.00
3	201.00	32.5 QP	43.5	-11.0	1.00 V	199	22.20	10.30
4	300.16	30.8 QP	46.0	-15.2	1.00 V	10	16.10	14.70
5	500.42	28.1 QP	46.0	-17.9	1.50 V	109	8.30	19.80
6	718.18	30.7 QP	46.0	-15.3	1.00 V	253	7.00	23.70

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	138.78	36.4 QP	43.5	-7.1	1.00 H	247	22.50	13.90
2	166.00	37.8 QP	43.5	-5.7	1.00 H	235	24.00	13.80
3	226.27	42.4 QP	46.0	-3.6	1.50 H	121	30.80	11.60
4	300.16	42.5 QP	46.0	-3.5	1.00 H	244	27.80	14.70
5	375.98	33.9 QP	46.0	-12.1	1.00 H	268	17.40	16.50
6	799.84	37.3 QP	46.0	-8.7	2.00 H	154	12.70	24.60
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	55.18	31.6 QP	40.0	-8.4	1.50 V	274	17.80	13.80
2	191.28	33.3 QP	43.5	-10.2	1.00 V	217	22.10	11.20
3	300.16	29.7 QP	46.0	-16.3	1.00 V	346	15.00	14.70
4	375.98	28.1 QP	46.0	-17.9	1.50 V	34	11.60	16.50
5	673.46	28.6 QP	46.0	-17.4	2.00 V	265	5.40	23.20
6	766.79	30.5 QP	46.0	-15.5	1.00 V	103	6.20	24.30

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

#### 4.1.12 TEST RESULTS (C1)

##### 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	52.2 PK	74.0	-21.8	1.04 H	53	15.60	36.60
2	5040.00	46.9 AV	54.0	-7.1	1.04 H	53	10.30	36.60
3	5120.00	53.2 PK	74.0	-20.8	1.33 H	157	16.50	36.70
4	5120.00	41.5 AV	54.0	-12.5	1.33 H	157	4.80	36.70
5	*5260.00	113.0 PK			1.07 H	93	76.00	37.00
6	*5260.00	100.7 AV			1.07 H	93	63.70	37.00
7	#10520.00	57.0 PK	68.3	-11.3	1.65 H	189	8.60	48.40
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	5040.00	49.7 PK	74.0	-24.3	1.28 V	255	13.10	36.60
2	5040.00	44.3 AV	54.0	-9.7	1.28 V	255	7.70	36.60
3	5120.00	50.7 PK	74.0	-23.3	1.35 V	298	14.00	36.70
4	5120.00	38.7 AV	54.0	-15.3	1.35 V	298	2.00	36.70
5	*5260.00	112.2 PK			1.18 V	68	75.20	37.00
6	*5260.00	99.6 AV			1.18 V	68	62.60	37.00
7	#10520.00	56.7 PK	68.3	-11.6	1.27 V	135	8.30	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.8 PK	74.0	-22.2	1.06 H	117	15.20	36.60
2	5040.00	46.2 AV	54.0	-7.8	1.06 H	117	9.60	36.60
3	*5300.00	112.6 PK			1.26 H	104	75.50	37.10
4	*5300.00	100.2 AV			1.26 H	104	63.10	37.10
5	10600.00	57.2 PK	74.0	-16.8	1.24 H	159	8.60	48.60
6	10600.00	46.2 AV	54.0	-7.8	1.26 H	159	-2.40	48.60

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	5040.00	49.2 PK	74.0	-24.8	1.22 V	252	12.60	36.60
2	5040.00	44.2 AV	54.0	-9.8	1.22 V	252	7.60	36.60
3	*5300.00	111.8 PK			1.53 V	187	74.70	37.10
4	*5300.00	99.3 AV			1.53 V	187	62.20	37.10
5	10600.00	57.0 PK	74.0	-17.0	1.21 V	199	8.40	48.60
6	10600.00	46.2 AV	54.0	-7.8	1.21 V	199	-2.40	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.5 PK	74.0	-22.5	1.02 H	136	14.90	36.60
2	5040.00	46.4 AV	54.0	-7.6	1.02 H	136	9.80	36.60
3	*5320.00	112.2 PK			1.43 H	15	75.00	37.20
4	*5320.00	99.9 AV			1.43 H	15	62.70	37.20
5	5350.00	68.5 PK	74.0	-5.5	1.08 H	235	31.30	37.20
6	5350.00	48.6 AV	54.0	-5.4	1.05 H	235	11.40	37.20
7	10640.00	56.2 PK	74.0	-17.8	1.24 H	305	7.60	48.60
8	10640.00	44.0 AV	54.0	-10.0	1.24 H	305	-4.60	48.60
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	5040.00	49.8 PK	74.0	-24.2	1.09 V	113	13.20	36.60
2	5040.00	44.7 AV	54.0	-9.3	1.09 V	113	8.10	36.60
3	*5320.00	111.5 PK			1.52 V	203	74.30	37.20
4	*5320.00	99.0 AV			1.52 V	203	61.80	37.20
5	5350.00	67.2 PK	74.0	-6.8	1.35 V	99	30.00	37.20
6	5350.00	47.4 AV	54.0	-6.6	1.35 V	99	10.20	37.20
7	10640.00	56.5 PK	74.0	-17.5	1.27 V	69	7.90	48.60
8	10640.00	44.2 AV	54.0	-9.8	1.27 V	69	-4.40	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	46.7 PK	74.0	-27.3	1.05 H	343	10.20	36.50
2	5000.00	40.7 AV	54.0	-13.3	1.05 H	343	4.20	36.50
3	5460.00	55.7 PK	74.0	-18.3	1.05 H	118	18.40	37.30
4	5460.00	36.6 AV	54.0	-17.4	1.05 H	118	-0.70	37.30
5	#5470.00	60.0 PK	68.3	-8.3	1.05 H	118	22.60	37.40
6	*5500.00	111.8 PK			1.47 H	288	74.40	37.40
7	*5500.00	99.7 AV			1.47 H	288	62.30	37.40
8	11000.00	58.2 PK	74.0	-15.8	1.52 H	167	9.50	48.70
9	11000.00	47.2 AV	54.0	-6.8	1.52 H	167	-1.50	48.70
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	5000.00	48.0 PK	74.0	-26.0	1.17 V	63	11.50	36.50
2	5000.00	41.2 AV	54.0	-12.8	1.17 V	63	4.70	36.50
3	5460.00	54.3 PK	74.0	-19.7	1.05 V	53	17.00	37.30
4	5460.00	34.7 AV	54.0	-19.3	1.05 V	53	-2.60	37.30
5	#5470.00	58.3 PK	68.3	-10.0	1.05 V	53	20.90	37.40
6	*5500.00	111.2 PK			1.25 V	116	73.80	37.40
7	*5500.00	98.6 AV			1.25 V	116	61.20	37.40
8	11000.00	57.2 PK	74.0	-16.8	1.34 V	277	8.50	48.70
9	11000.00	46.2 AV	54.0	-7.8	1.34 V	277	-2.50	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	47.5 PK	74.0	-26.5	1.33 H	105	11.00	36.50
2	5000.00	41.3 AV	54.0	-12.7	1.33 H	105	4.80	36.50
3	*5580.00	111.5 PK			1.05 H	167	73.90	37.60
4	*5580.00	99.4 AV			1.05 H	167	61.80	37.60
5	11160.00	58.2 PK	74.0	-15.8	1.62 H	65	9.80	48.40
6	11160.00	46.8 AV	54.0	-7.2	1.62 H	65	-1.60	48.40
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	5000.00	48.3 PK	74.0	-25.7	1.04 V	199	11.80	36.50
2	5000.00	41.3 AV	54.0	-12.7	1.04 V	199	4.80	36.50
3	*5580.00	110.9 PK			1.33 V	220	73.30	37.60
4	*5580.00	98.3 AV			1.33 V	220	60.70	37.60
5	11160.00	57.0 PK	74.0	-17.0	1.28 V	107	8.60	48.40
6	11160.00	45.3 AV	54.0	-8.7	1.28 V	107	-3.10	48.40

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	48.7 PK	74.0	-25.3	1.08 H	43	12.20	36.50
2	5000.00	41.2 AV	54.0	-12.8	1.08 H	43	4.70	36.50
3	*5680.00	111.2 PK			1.29 H	237	73.40	37.80
4	*5680.00	99.0 AV			1.29 H	237	61.20	37.80
5	11360.00	57.3 PK	74.0	-16.7	1.51 H	305	9.20	48.10
6	11360.00	47.3 AV	54.0	-6.7	1.51 H	350	-0.80	48.10

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	5000.00	48.7 PK	74.0	-25.3	1.09 V	77	12.20	36.50
2	5000.00	41.2 AV	54.0	-12.8	1.09 V	77	4.70	36.50
3	*5680.00	110.5 PK			1.38 V	57	72.70	37.80
4	*5680.00	97.9 AV			1.38 V	57	60.10	37.80
5	11360.00	56.8 PK	74.0	-17.2	1.22 V	239	8.70	48.10
6	11360.00	45.2 AV	54.0	-8.8	1.22 V	239	-2.90	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	50.0 PK	74.0	-24.0	1.02 H	205	13.50	36.50
2	5000.00	42.7 AV	54.0	-11.3	1.02 H	205	6.20	36.50
3	*5700.00	110.8 PK			1.24 H	99	72.90	37.90
4	*5700.00	98.6 AV			1.24 H	99	60.70	37.90
5	#5725.00	60.5 PK	68.3	-7.8	1.43 H	227	22.50	38.00
6	11400.00	57.3 PK	74.0	-16.7	1.28 H	352	9.30	48.00
7	11400.00	46.9 AV	54.0	-7.1	1.28 H	352	-1.10	48.00
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	5000.00	49.8 PK	74.0	-24.2	1.13 V	357	13.30	36.50
2	5000.00	42.2 AV	54.0	-11.8	1.13 V	357	5.70	36.50
3	*5700.00	110.2 PK			1.05 V	292	72.30	37.90
4	*5700.00	97.4 AV			1.05 V	292	59.50	37.90
5	#5725.00	60.2 PK	68.3	-8.1	1.07 V	68	22.20	38.00
6	11400.00	57.2 PK	74.0	-16.8	1.27 V	205	9.20	48.00
7	11400.00	45.3 AV	54.0	-8.7	1.27 V	205	-2.70	48.00

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



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.2 PK	74.0	-22.8	1.09 H	112	14.70	36.50
2	5000.00	45.3 AV	54.0	-8.7	1.09 H	112	8.80	36.50
3	5120.00	53.0 PK	74.0	-21.0	1.08 H	47	16.30	36.70
4	5120.00	41.2 AV	54.0	-12.8	1.08 H	47	4.50	36.70
5	*5260.00	112.7 PK			1.28 H	114	75.70	37.00
6	*5260.00	100.5 AV			1.28 H	114	63.50	37.00
7	#10520.00	57.4 PK	68.3	-10.9	1.53 H	278	9.00	48.40

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	5000.00	49.2 PK	74.0	-24.8	1.16 V	152	12.70	36.50
2	5000.00	44.2 AV	54.0	-9.8	1.16 V	152	7.70	36.50
3	5120.00	50.3 PK	74.0	-23.7	1.07 V	286	13.60	36.70
4	5120.00	38.3 AV	54.0	-15.7	1.07 V	286	1.60	36.70
5	*5260.00	112.1 PK			1.32 V	214	75.10	37.00
6	*5260.00	99.2 AV			1.32 V	214	62.20	37.00
7	#10520.00	57.0 PK	68.3	-11.3	1.08 V	189	8.60	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.2 PK	74.0	-22.8	1.05 H	109	14.60	36.60
2	5040.00	46.5 AV	54.0	-7.5	1.05 H	109	9.90	36.60
3	*5300.00	112.3 PK			1.34 H	182	75.20	37.10
4	*5300.00	100.1 AV			1.34 H	182	63.00	37.10
5	10600.00	57.7 PK	74.0	-16.3	1.63 H	245	9.10	48.60
6	10600.00	47.3 AV	54.0	-6.7	1.63 H	245	-1.30	48.60
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	5040.00	49.8 PK	74.0	-24.2	1.37 V	196	13.20	36.60
2	5040.00	44.3 AV	54.0	-9.7	1.37 V	196	7.70	36.60
3	*5300.00	111.7 PK			1.05 V	89	74.60	37.10
4	*5300.00	98.7 AV			1.05 V	89	61.60	37.10
5	10600.00	56.3 PK	74.0	-17.7	1.47 V	283	7.70	48.60
6	10600.00	46.2 AV	54.0	-7.8	1.47 V	283	-2.40	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.2 PK	74.0	-22.8	1.25 H	225	14.70	36.50
2	5000.00	46.5 AV	54.0	-7.5	1.25 H	225	10.00	36.50
3	*5320.00	112.0 PK			1.33 H	206	74.80	37.20
4	*5320.00	99.6 AV			1.33 H	206	62.40	37.20
5	5350.00	68.0 PK	74.0	-6.0	1.05 H	186	30.80	37.20
6	5350.00	48.7 AV	54.0	-5.3	1.05 H	186	11.50	37.20
7	10640.00	56.7 PK	74.0	-17.3	1.34 H	105	8.10	48.60
8	10640.00	44.3 AV	54.0	-9.7	1.34 H	105	-4.30	48.60
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	5000.00	50.0 PK	74.0	-24.0	1.09 V	177	13.50	36.50
2	5000.00	45.2 AV	54.0	-8.8	1.09 V	177	8.70	36.50
3	*5320.00	111.4 PK			1.33 V	299	74.20	37.20
4	*5320.00	98.6 AV			1.33 V	299	61.40	37.20
5	5350.00	66.7 PK	74.0	-7.3	1.17 V	65	29.50	37.20
6	5350.00	47.5 AV	54.0	-6.5	1.17 V	65	10.30	37.20
7	10640.00	56.2 PK	74.0	-17.8	1.05 V	236	7.60	48.60
8	10640.00	44.2 AV	54.0	-9.8	1.05 V	236	-4.40	48.60

- 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 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	50.1 PK	74.0	-23.9	1.05 H	163	13.60	36.50
2	5000.00	42.2 AV	54.0	-11.8	1.05 H	163	5.70	36.50
3	5460.00	55.7 PK	74.0	-18.3	1.47 H	193	18.40	37.30
4	5460.00	37.8 AV	54.0	-16.2	1.47 H	193	0.50	37.30
5	#5470.00	58.7 PK	68.3	-9.6	1.47 H	193	21.30	37.40
6	*5500.00	111.5 PK			1.27 H	51	74.10	37.40
7	*5500.00	99.2 AV			1.27 H	51	61.80	37.40
8	11000.00	59.4 PK	74.0	-14.6	1.08 H	91	10.70	48.70
9	11000.00	47.2 AV	54.0	-6.8	1.08 H	91	-1.50	48.70
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	5000.00	49.8 PK	74.0	-24.2	1.04 V	299	13.30	36.50
2	5000.00	44.8 AV	54.0	-9.2	1.04 V	299	8.30	36.50
3	5460.00	56.0 PK	74.0	-18.0	1.52 V	12	18.70	37.30
4	5460.00	37.2 AV	54.0	-16.8	1.52 V	12	-0.10	37.30
5	#5470.00	59.7 PK	68.3	-8.6	1.52 V	12	22.30	37.40
6	*5500.00	111.2 PK			1.33 V	85	73.80	37.40
7	*5500.00	98.3 AV			1.33 V	85	60.90	37.40
8	11000.00	57.2 PK	74.0	-16.8	1.22 V	106	8.50	48.70
9	11000.00	46.5 AV	54.0	-7.5	1.22 V	106	-2.20	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.5 PK	74.0	-24.5	1.02 H	61	13.00	36.50
2	5000.00	42.2 AV	54.0	-11.8	1.02 H	61	5.70	36.50
3	*5580.00	111.2 PK			1.43 H	108	73.60	37.60
4	*5580.00	98.8 AV			1.43 H	108	61.20	37.60
5	11160.00	58.8 PK	74.0	-15.2	1.41 H	172	10.40	48.40
6	11160.00	47.0 AV	54.0	-7.0	1.41 H	172	-1.40	48.40
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	5000.00	50.0 PK	74.0	-24.0	1.38 V	210	13.50	36.50
2	5000.00	44.3 AV	54.0	-9.7	1.38 V	210	7.80	36.50
3	*5580.00	110.5 PK			1.08 V	299	72.90	37.60
4	*5580.00	98.0 AV			1.08 V	299	60.40	37.60
5	11160.00	56.5 PK	74.0	-17.5	1.07 V	168	8.10	48.40
6	11160.00	46.3 AV	54.0	-7.7	1.07 V	168	-2.10	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	49.8 PK	74.0	-24.2	1.41 H	148	13.20	36.60
2	5040.00	42.8 AV	54.0	-11.2	1.41 H	148	6.20	36.60
3	*5680.00	110.5 PK			1.37 H	152	72.70	37.80
4	*5680.00	98.2 AV			1.37 H	152	60.40	37.80
5	11360.00	57.5 PK	74.0	-16.5	1.52 H	142	9.40	48.10
6	11360.00	47.2 AV	54.0	-6.8	1.52 H	142	-0.90	48.10

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	5040.00	49.8 PK	74.0	-24.2	1.27 V	53	13.20	36.60
2	5040.00	44.3 AV	54.0	-9.7	1.27 V	53	7.70	36.60
3	*5680.00	110.0 PK			1.69 V	177	72.20	37.80
4	*5680.00	97.3 AV			1.69 V	177	59.50	37.80
5	11360.00	56.2 PK	74.0	-17.8	1.05 V	98	8.10	48.10
6	11360.00	46.3 AV	54.0	-7.7	1.05 V	98	-1.80	48.10

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	54.9 PK	74.0	-19.1	1.03 H	177	17.70	37.20
2	5360.00	46.8 AV	54.0	-7.2	1.03 H	177	9.60	37.20
3	*5700.00	111.2 PK			1.35 H	343	73.30	37.90
4	*5700.00	97.7 AV			1.35 H	343	59.80	37.90
5	#5725.00	66.2 PK	68.3	-2.1	1.05 H	98	28.20	38.00
6	11400.00	57.5 PK	74.0	-16.5	1.57 H	187	9.50	48.00
7	11400.00	46.3 AV	54.0	-7.7	1.57 H	187	-1.70	48.00
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	5360.00	54.0 PK	74.0	-20.0	1.05 V	168	16.80	37.20
2	5360.00	44.8 AV	54.0	-9.2	1.05 V	168	7.60	37.20
3	*5700.00	110.5 PK			1.04 V	352	72.60	37.90
4	*5700.00	97.0 AV			1.04 V	352	59.10	37.90
5	#5725.00	65.2 PK	68.3	-3.1	1.18 V	317	27.20	38.00
6	11400.00	56.3 PK	74.0	-17.7	1.37 V	288	8.30	48.00
7	11400.00	45.8 AV	54.0	-8.2	1.37 V	288	-2.20	48.00

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



802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.2 PK	74.0	-22.8	1.35 H	117	14.60	36.60
2	5040.00	46.2 AV	54.0	-7.8	1.35 H	117	9.60	36.60
3	5120.00	53.4 PK	74.0	-20.6	1.13 H	287	16.70	36.70
4	5120.00	41.8 AV	54.0	-12.2	1.13 H	287	5.10	36.70
5	*5270.00	109.1 PK			1.37 H	168	72.10	37.00
6	*5270.00	96.8 AV			1.37 H	168	59.80	37.00
7	#10540.00	58.1 PK	68.3	-10.2	1.28 H	220	9.70	48.40
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	5040.00	49.2 PK	74.0	-24.8	1.33 V	265	12.60	36.60
2	5040.00	43.8 AV	54.0	-10.2	1.33 V	265	7.20	36.60
3	5120.00	50.2 PK	74.0	-23.8	1.08 V	117	13.50	36.70
4	5120.00	38.3 AV	54.0	-15.7	1.08 V	117	1.60	36.70
5	*5270.00	108.2 PK			1.27 V	35	71.20	37.00
6	*5270.00	95.7 AV			1.27 V	35	58.70	37.00
7	#10540.00	57.2 PK	68.3	-11.1	1.16 V	198	8.80	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	50.9 PK	74.0	-23.1	1.22 H	53	14.40	36.50
2	5000.00	46.0 AV	54.0	-8.0	1.22 H	53	9.50	36.50
3	*5310.00	107.0 PK			1.43 H	108	69.90	37.10
4	*5310.00	94.7 AV			1.43 H	108	57.60	37.10
5	5350.00	72.3 PK	74.0	-1.7	1.09 H	21	35.10	37.20
6	5350.00	51.2 AV	54.0	-2.8	1.09 H	21	14.00	37.20
7	10620.00	58.2 PK	74.0	-15.8	1.33 H	178	9.60	48.60
8	10620.00	46.7 AV	54.0	-7.3	1.33 H	178	-1.90	48.60
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	5000.00	49.2 PK	74.0	-24.8	1.04 V	153	12.70	36.50
2	5000.00	43.2 AV	54.0	-10.8	1.04 V	153	6.70	36.50
3	*5310.00	106.0 PK			1.36 V	98	68.90	37.10
4	*5310.00	93.9 AV			1.36 V	98	56.80	37.10
5	5350.00	70.2 PK	74.0	-3.8	1.04 V	288	33.00	37.20
6	5350.00	48.9 AV	54.0	-5.1	1.04 V	288	11.70	37.20
7	10620.00	56.7 PK	74.0	-17.3	1.58 V	347	8.10	48.60
8	10620.00	45.9 AV	54.0	-8.1	1.58 V	347	-2.70	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	50.2 PK	74.0	-23.8	1.36 H	204	13.60	36.60
2	5040.00	45.9 AV	54.0	-8.1	1.36 H	204	9.30	36.60
3	5460.00	60.1 PK	74.0	-13.9	1.05 H	223	22.80	37.30
4	5460.00	43.1 AV	54.0	-10.9	1.05 H	223	5.80	37.30
5	#5470.00	66.8 PK	68.3	-1.5	1.05 H	223	29.40	37.40
6	*5510.00	105.3 PK			1.24 H	199	67.90	37.40
7	*5510.00	93.1 AV			1.24 H	199	55.70	37.40
8	11020.00	58.2 PK	74.0	-15.8	1.56 H	237	9.50	48.70
9	11020.00	47.2 AV	54.0	-6.8	1.56 H	237	-1.50	48.70
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	5040.00	48.2 PK	74.0	-25.8	1.34 V	342	11.60	36.60
2	5040.00	42.8 AV	54.0	-11.2	1.34 V	342	6.20	36.60
3	5460.00	59.5 PK	74.0	-14.5	1.06 V	233	22.20	37.30
4	5460.00	41.8 AV	54.0	-12.2	1.06 V	233	4.50	37.30
5	#5470.00	63.2 PK	68.3	-5.1	1.06 V	233	25.80	37.40
6	*5510.00	104.6 PK			1.38 V	12	67.20	37.40
7	*5510.00	92.4 AV			1.38 V	12	55.00	37.40
8	11020.00	57.2 PK	74.0	-16.8	1.03 V	105	8.50	48.70
9	11020.00	45.8 AV	54.0	-8.2	1.03 V	105	-2.90	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.7 PK	74.0	-22.3	1.23 H	100	15.20	36.50
2	5000.00	46.3 AV	54.0	-7.7	1.23 H	100	9.80	36.50
3	*5550.00	108.3 PK			1.43 H	172	70.80	37.50
4	*5550.00	96.2 AV			1.43 H	172	58.70	37.50
5	#5725.00	51.4 PK	68.3	-16.9	1.43 H	172	13.40	38.00
6	11100.00	58.2 PK	74.0	-15.8	1.22 H	192	9.70	48.50
7	11100.00	47.1 AV	54.0	-6.9	1.22 H	192	-1.40	48.50
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	5000.00	49.2 PK	74.0	-24.8	1.05 V	151	12.70	36.50
2	5000.00	43.3 AV	54.0	-10.7	1.05 V	151	6.80	36.50
3	*5550.00	107.5 PK			1.32 V	284	70.00	37.50
4	*5550.00	95.1 AV			1.32 V	284	57.60	37.50
5	#5725.00	50.9 PK	68.3	-17.4	1.32 V	284	12.90	38.00
6	11100.00	57.0 PK	74.0	-17.0	1.48 V	237	8.50	48.50
7	11100.00	45.6 AV	54.0	-8.4	1.48 V	237	-2.90	48.50

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

**BELOW 1GHz WORST-CASE DATA : 802.11a**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	99.89	38.0 QP	43.5	-5.5	1.25 H	122	27.90	10.10
2	199.05	32.9 QP	43.5	-10.6	1.25 H	19	22.60	10.30
3	300.16	32.7 QP	46.0	-13.3	1.25 H	152	18.00	14.70
4	498.47	35.7 QP	46.0	-10.3	1.25 H	107	15.90	19.80
5	595.69	34.7 QP	46.0	-11.3	1.25 H	37	12.80	21.90
6	797.89	34.9 QP	46.0	-11.1	1.25 H	91	10.30	24.60
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	30.80	28.9 QP	40.0	-11.1	1.25 V	173	16.40	12.50
2	99.89	31.4 QP	43.5	-12.1	1.25 V	212	21.30	10.10
3	300.16	26.9 QP	46.0	-19.1	1.25 V	93	12.20	14.70
4	595.69	29.4 QP	46.0	-16.6	1.75 V	52	7.50	21.90
5	667.63	38.1 QP	46.0	-7.9	1.25 V	156	15.00	23.10
6	926.22	35.5 QP	46.0	-10.5	1.75 V	12	9.20	26.30

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	99.89	33.2 QP	43.5	-10.3	1.25 H	53	23.10	10.10
2	216.55	33.3 QP	46.0	-12.7	1.00 H	104	22.20	11.10
3	527.64	33.2 QP	46.0	-12.8	1.75 H	43	12.70	20.50
4	665.68	39.6 QP	46.0	-6.4	1.25 H	107	16.50	23.10
5	797.89	32.9 QP	46.0	-13.1	1.25 H	299	8.30	24.60
6	926.22	32.5 QP	46.0	-13.5	1.25 H	282	6.20	26.30
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	30.00	29.7 QP	40.0	-10.3	1.25 V	107	17.20	12.50
2	59.06	31.5 QP	40.0	-8.5	1.75 V	63	18.30	13.20
3	138.78	27.0 QP	43.5	-16.5	1.25 V	235	13.10	13.90
4	463.48	31.7 QP	46.0	-14.3	1.75 V	67	12.80	18.90
5	529.58	32.6 QP	46.0	-13.4	1.25 V	82	12.10	20.50
6	667.63	36.9 QP	46.0	-9.1	1.25 V	203	13.80	23.10

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

#### 4.1.13 TEST RESULTS (C2)

##### 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	52.6 PK	74.0	-21.4	1.16 H	284	16.00	36.60
2	5040.00	47.3 AV	54.0	-6.7	1.16 H	284	10.70	36.60
3	5120.00	53.6 PK	74.0	-20.4	1.06 H	298	16.90	36.70
4	5120.00	41.8 AV	54.0	-12.2	1.06 H	298	5.10	36.70
5	*5260.00	113.3 PK			1.06 H	286	76.30	37.00
6	*5260.00	101.1 AV			1.06 H	286	64.10	37.00
7	#10520.00	57.5 PK	68.3	-10.8	1.16 H	245	9.10	48.40
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	5040.00	50.2 PK	74.0	-23.8	1.16 V	241	13.60	36.60
2	5040.00	45.0 AV	54.0	-9.0	1.16 V	241	8.40	36.60
3	5120.00	51.1 PK	74.0	-22.9	1.08 V	261	14.40	36.70
4	5120.00	39.2 AV	54.0	-14.8	1.08 V	261	2.50	36.70
5	*5260.00	112.6 PK			1.05 V	234	75.60	37.00
6	*5260.00	100.0 AV			1.05 V	234	63.00	37.00
7	#10520.00	57.2 PK	68.3	-11.1	1.10 V	212	8.80	48.40

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





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	52.2 PK	74.0	-21.8	1.15 H	286	15.60	36.60
2	5040.00	46.9 AV	54.0	-7.1	1.15 H	286	10.30	36.60
3	*5300.00	113.1 PK			1.05 H	288	76.00	37.10
4	*5300.00	100.9 AV			1.05 H	288	63.80	37.10
5	10600.00	57.9 PK	74.0	-16.1	1.13 H	268	9.30	48.60
6	10600.00	46.8 AV	54.0	-7.2	1.13 H	268	-1.80	48.60

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	5040.00	50.0 PK	74.0	-24.0	1.15 V	239	13.40	36.60
2	5040.00	44.8 AV	54.0	-9.2	1.15 V	239	8.20	36.60
3	*5300.00	112.3 PK			1.06 V	235	75.20	37.10
4	*5300.00	99.8 AV			1.06 V	235	62.70	37.10
5	10600.00	57.5 PK	74.0	-16.5	1.09 V	200	8.90	48.60
6	10600.00	46.6 AV	54.0	-7.4	1.09 V	200	-2.00	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	52.0 PK	74.0	-22.0	1.09 H	281	15.40	36.60
2	5040.00	46.8 AV	54.0	-7.2	1.09 H	281	10.20	36.60
3	*5320.00	112.8 PK			1.06 H	289	75.60	37.20
4	*5320.00	100.6 AV			1.06 H	289	63.40	37.20
5	5350.00	68.8 PK	74.0	-5.2	1.00 H	296	31.60	37.20
6	5350.00	48.9 AV	54.0	-5.1	1.00 H	296	11.70	37.20
7	10640.00	56.8 PK	74.0	-17.2	1.04 H	211	8.20	48.60
8	10640.00	44.5 AV	54.0	-9.5	1.04 H	211	-4.10	48.60
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	5040.00	50.3 PK	74.0	-23.7	1.20 V	245	13.70	36.60
2	5040.00	45.1 AV	54.0	-8.9	1.20 V	245	8.50	36.60
3	*5320.00	112.1 PK			1.05 V	236	74.90	37.20
4	*5320.00	99.5 AV			1.05 V	236	62.30	37.20
5	5350.00	67.8 PK	74.0	-6.2	1.05 V	236	30.60	37.20
6	5350.00	47.9 AV	54.0	-6.1	1.05 V	236	10.70	37.20
7	10640.00	57.1 PK	74.0	-16.9	1.03 V	215	8.50	48.60
8	10640.00	44.8 AV	54.0	-9.2	1.03 V	215	-3.80	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	47.1 PK	74.0	-26.9	1.27 H	328	10.60	36.50
2	5000.00	41.1 AV	54.0	-12.9	1.27 H	328	4.60	36.50
3	5460.00	56.1 PK	74.0	-17.9	1.00 H	6	18.80	37.30
4	5460.00	37.1 AV	54.0	-16.9	1.00 H	6	-0.20	37.30
5	#5470.00	60.5 PK	68.3	-7.8	1.00 H	6	23.10	37.40
6	*5500.00	112.3 PK			1.03 H	358	74.90	37.40
7	*5500.00	100.2 AV			1.03 H	358	62.80	37.40
8	11000.00	58.6 PK	74.0	-15.4	1.05 H	327	9.90	48.70
9	11000.00	47.6 AV	54.0	-6.4	1.05 H	327	-1.10	48.70
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	5000.00	48.4 PK	74.0	-25.6	1.05 V	143	11.90	36.50
2	5000.00	41.6 AV	54.0	-12.4	1.05 V	143	5.10	36.50
3	5460.00	54.8 PK	74.0	-19.2	1.16 V	181	17.50	37.30
4	5460.00	35.1 AV	54.0	-18.9	1.16 V	181	-2.20	37.30
5	#5470.00	58.7 PK	68.3	-9.6	1.16 V	181	21.30	37.40
6	*5500.00	111.6 PK			1.07 V	293	74.20	37.40
7	*5500.00	99.2 AV			1.07 V	293	61.80	37.40
8	11000.00	58.0 PK	74.0	-16.0	1.21 V	185	9.30	48.70
9	11000.00	46.8 AV	54.0	-7.2	1.21 V	185	-1.90	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	48.1 PK	74.0	-25.9	1.05 H	185	11.60	36.50
2	5000.00	42.0 AV	54.0	-12.0	1.05 H	185	5.50	36.50
3	*5580.00	112.0 PK			1.04 H	235	74.40	37.60
4	*5580.00	99.8 AV			1.04 H	235	62.20	37.60
5	11160.00	58.6 PK	74.0	-15.4	1.43 H	223	10.20	48.40
6	11160.00	47.2 AV	54.0	-6.8	1.43 H	223	-1.20	48.40
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	5000.00	48.9 PK	74.0	-25.1	1.26 V	205	12.40	36.50
2	5000.00	41.7 AV	54.0	-12.3	1.26 V	205	5.20	36.50
3	*5580.00	111.2 PK			1.23 V	172	73.60	37.60
4	*5580.00	98.7 AV			1.23 V	172	61.10	37.60
5	11160.00	57.4 PK	74.0	-16.6	1.32 V	51	9.00	48.40
6	11160.00	45.8 AV	54.0	-8.2	1.32 V	51	-2.60	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.1 PK	74.0	-24.9	1.00 H	145	12.60	36.50
2	5000.00	41.9 AV	54.0	-12.1	1.00 H	145	5.40	36.50
3	*5680.00	111.6 PK			1.08 H	152	73.80	37.80
4	*5680.00	99.2 AV			1.08 H	152	61.40	37.80
5	11360.00	57.9 PK	74.0	-16.1	1.27 H	299	9.80	48.10
6	11360.00	47.8 AV	54.0	-6.2	1.27 H	299	-0.30	48.10
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	5000.00	49.2 PK	74.0	-24.8	1.13 V	105	12.70	36.50
2	5000.00	41.8 AV	54.0	-12.2	1.13 V	105	5.30	36.50
3	*5680.00	110.7 PK			1.07 V	132	72.90	37.80
4	*5680.00	98.3 AV			1.07 V	132	60.50	37.80
5	11360.00	57.2 PK	74.0	-16.8	1.38 V	321	9.10	48.10
6	11360.00	45.8 AV	54.0	-8.2	1.38 V	321	-2.30	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	50.5 PK	74.0	-23.5	1.00 H	187	14.00	36.50
2	5000.00	43.1 AV	54.0	-10.9	1.00 H	187	6.60	36.50
3	*5700.00	111.2 PK			1.02 H	201	73.30	37.90
4	*5700.00	98.8 AV			1.02 H	201	60.90	37.90
5	#5725.00	58.9 PK	68.3	-9.4	1.06 H	181	20.90	38.00
6	11400.00	57.9 PK	74.0	-16.1	1.37 H	108	9.90	48.00
7	11400.00	47.3 AV	54.0	-6.7	1.37 H	108	-0.70	48.00
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	5000.00	50.2 PK	74.0	-23.8	1.00 V	144	13.70	36.50
2	5000.00	42.7 AV	54.0	-11.3	1.00 V	144	6.20	36.50
3	*5700.00	110.2 PK			1.12 V	165	72.30	37.90
4	*5700.00	97.8 AV			1.12 V	165	59.90	37.90
5	#5725.00	60.9 PK	68.3	-7.4	1.18 V	199	22.90	38.00
6	11400.00	57.6 PK	74.0	-16.4	1.31 V	85	9.60	48.00
7	11400.00	46.0 AV	54.0	-8.0	1.31 V	85	-2.00	48.00

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



A D T

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.9 PK	74.0	-22.1	1.05 H	316	15.40	36.50
2	5000.00	45.8 AV	54.0	-8.2	1.05 H	316	9.30	36.50
3	5120.00	53.3 PK	74.0	-20.7	1.00 H	318	16.60	36.70
4	5120.00	41.5 AV	54.0	-12.5	1.00 H	318	4.80	36.70
5	*5260.00	113.1 PK			1.07 H	298	76.10	37.00
6	*5260.00	100.9 AV			1.07 H	298	63.90	37.00
7	#10520.00	57.8 PK	68.3	-10.5	1.34 H	298	9.40	48.40
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	5000.00	49.8 PK	74.0	-24.2	1.36 V	335	13.30	36.50
2	5000.00	44.7 AV	54.0	-9.3	1.36 V	335	8.20	36.50
3	5120.00	50.8 PK	74.0	-23.2	1.02 V	159	14.10	36.70
4	5120.00	38.9 AV	54.0	-15.1	1.02 V	159	2.20	36.70
5	*5260.00	112.4 PK			1.08 V	147	75.40	37.00
6	*5260.00	99.7 AV			1.08 V	147	62.70	37.00
7	#10520.00	57.5 PK	68.3	-10.8	1.48 V	287	9.10	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.9 PK	74.0	-22.1	1.32 H	43	15.30	36.60
2	5040.00	47.0 AV	54.0	-7.0	1.32 H	43	10.40	36.60
3	*5300.00	112.8 PK			1.07 H	328	75.70	37.10
4	*5300.00	100.5 AV			1.07 H	328	63.40	37.10
5	10600.00	58.2 PK	74.0	-15.8	1.52 H	245	9.60	48.60
6	10600.00	47.3 AV	54.0	-6.7	1.52 H	245	-1.30	48.60
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	5040.00	50.3 PK	74.0	-23.7	1.18 V	207	13.70	36.60
2	5040.00	45.0 AV	54.0	-9.0	1.18 V	207	8.40	36.60
3	*5300.00	112.0 PK			1.23 V	277	74.90	37.10
4	*5300.00	99.4 AV			1.23 V	277	62.30	37.10
5	10600.00	56.8 PK	74.0	-17.2	1.38 V	354	8.20	48.60
6	10600.00	46.5 AV	54.0	-7.5	1.38 V	354	-2.10	48.60

- 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.





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.8 PK	74.0	-22.2	1.12 H	272	15.30	36.50
2	5000.00	47.0 AV	54.0	-7.0	1.12 H	272	10.50	36.50
3	*5320.00	112.3 PK			1.07 H	211	75.10	37.20
4	*5320.00	100.0 AV			1.07 H	211	62.80	37.20
5	5350.00	67.3 PK	74.0	-6.7	1.12 H	317	30.10	37.20
6	5350.00	48.2 AV	54.0	-5.8	1.12 H	317	11.00	37.20
7	10640.00	57.2 PK	74.0	-16.8	1.58 H	23	8.60	48.60
8	10640.00	44.7 AV	54.0	-9.3	1.58 H	23	-3.90	48.60
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	5000.00	50.5 PK	74.0	-23.5	1.28 V	323	14.00	36.50
2	5000.00	45.6 AV	54.0	-8.4	1.28 V	323	9.10	36.50
3	*5320.00	111.6 PK			1.27 V	233	74.40	37.20
4	*5320.00	99.0 AV			1.27 V	233	61.80	37.20
5	5350.00	66.2 PK	74.0	-7.8	1.22 V	247	29.00	37.20
6	5350.00	47.3 AV	54.0	-6.7	1.22 V	247	10.10	37.20
7	10640.00	56.9 PK	74.0	-17.1	1.33 V	231	8.30	48.60
8	10640.00	44.7 AV	54.0	-9.3	1.33 V	231	-3.90	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	50.6 PK	74.0	-23.4	1.23 H	312	14.10	36.50
2	5000.00	42.4 AV	54.0	-11.6	1.23 H	312	5.90	36.50
3	5460.00	56.1 PK	74.0	-17.9	1.12 H	210	18.80	37.30
4	5460.00	38.1 AV	54.0	-15.9	1.12 H	210	0.80	37.30
5	#5470.00	59.1 PK	68.3	-9.2	1.12 H	210	21.70	37.40
6	*5500.00	111.8 PK			1.09 H	212	74.40	37.40
7	*5500.00	99.6 AV			1.09 H	212	62.20	37.40
8	11000.00	59.9 PK	74.0	-14.1	1.64 H	135	11.20	48.70
9	11000.00	47.7 AV	54.0	-6.3	1.64 H	135	-1.00	48.70
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	5000.00	50.3 PK	74.0	-23.7	1.12 V	306	13.80	36.50
2	5000.00	45.2 AV	54.0	-8.8	1.12 V	306	8.70	36.50
3	5460.00	56.4 PK	74.0	-17.6	1.29 V	333	19.10	37.30
4	5460.00	37.5 AV	54.0	-16.5	1.29 V	333	0.20	37.30
5	#5470.00	60.1 PK	68.3	-8.2	1.29 V	333	22.70	37.40
6	*5500.00	111.2 PK			1.02 V	47	73.80	37.40
7	*5500.00	98.6 AV			1.02 V	47	61.20	37.40
8	11000.00	57.8 PK	74.0	-16.2	1.35 V	77	9.10	48.70
9	11000.00	47.0 AV	54.0	-7.0	1.35 V	77	-1.70	48.70

- 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 radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	49.9 PK	74.0	-24.1	1.25 H	315	13.40	36.50
2	5000.00	42.5 AV	54.0	-11.5	1.25 H	315	6.00	36.50
3	*5580.00	111.4 PK			1.03 H	23	73.80	37.60
4	*5580.00	99.3 AV			1.03 H	23	61.70	37.60
5	11160.00	59.2 PK	74.0	-14.8	1.18 H	239	10.80	48.40
6	11160.00	47.5 AV	54.0	-6.5	1.18 H	239	-0.90	48.40

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	5000.00	50.5 PK	74.0	-23.5	1.03 V	247	14.00	36.50
2	5000.00	45.0 AV	54.0	-9.0	1.03 V	247	8.50	36.50
3	*5580.00	110.7 PK			1.17 V	307	73.10	37.60
4	*5580.00	98.2 AV			1.17 V	307	60.60	37.60
5	11160.00	57.0 PK	74.0	-17.0	1.33 V	45	8.60	48.40
6	11160.00	46.7 AV	54.0	-7.3	1.33 V	45	-1.70	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 136	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	50.2 PK	74.0	-23.8	1.28 H	232	13.60	36.60
2	5040.00	43.2 AV	54.0	-10.8	1.28 H	232	6.60	36.60
3	*5680.00	110.9 PK			1.02 H	302	73.10	37.80
4	*5680.00	98.7 AV			1.02 H	302	60.90	37.80
5	11360.00	58.2 PK	74.0	-15.8	1.28 H	357	10.10	48.10
6	11360.00	47.6 AV	54.0	-6.4	1.28 H	357	-0.50	48.10
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	5040.00	50.3 PK	74.0	-23.7	1.08 V	212	13.70	36.60
2	5040.00	44.7 AV	54.0	-9.3	1.08 V	212	8.10	36.60
3	*5680.00	110.2 PK			1.02 V	282	72.40	37.80
4	*5680.00	97.7 AV			1.02 V	282	59.90	37.80
5	11360.00	57.2 PK	74.0	-16.8	1.35 V	298	9.10	48.10
6	11360.00	46.9 AV	54.0	-7.1	1.35 V	298	-1.20	48.10

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5360.00	55.3 PK	74.0	-18.7	1.15 H	325	18.10	37.20
2	5360.00	47.1 AV	54.0	-6.9	1.15 H	325	9.90	37.20
3	*5700.00	110.5 PK			1.08 H	296	72.60	37.90
4	*5700.00	98.2 AV			1.08 H	296	60.30	37.90
5	#5725.00	66.5 PK	68.3	-1.8	1.00 H	128	28.50	38.00
6	11400.00	58.0 PK	74.0	-16.0	1.36 H	248	10.00	48.00
7	11400.00	46.9 AV	54.0	-7.1	1.36 H	248	-1.10	48.00
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	5360.00	54.4 PK	74.0	-19.6	1.20 V	192	17.20	37.20
2	5360.00	45.3 AV	54.0	-8.7	1.20 V	192	8.10	37.20
3	*5700.00	109.7 PK			1.22 V	253	71.80	37.90
4	*5700.00	97.2 AV			1.22 V	253	59.30	37.90
5	#5725.00	65.8 PK	68.3	-2.5	1.02 V	208	27.80	38.00
6	11400.00	56.9 PK	74.0	-17.1	1.53 V	314	8.90	48.00
7	11400.00	46.3 AV	54.0	-7.7	1.53 V	314	-1.70	48.00

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



A D T

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	51.8 PK	74.0	-22.2	1.02 H	42	15.20	36.60
2	5040.00	46.9 AV	54.0	-7.1	1.02 H	42	10.30	36.60
3	5120.00	53.9 PK	74.0	-20.1	1.05 H	321	17.20	36.70
4	5120.00	42.3 AV	54.0	-11.7	1.05 H	321	5.60	36.70
5	*5270.00	109.4 PK			1.03 H	298	72.40	37.00
6	*5270.00	97.2 AV			1.03 H	298	60.20	37.00
7	#10540.00	58.5 PK	68.3	-9.8	1.08 H	147	10.10	48.40
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	5040.00	49.8 PK	74.0	-24.2	1.27 V	271	13.20	36.60
2	5040.00	44.2 AV	54.0	-9.8	1.27 V	271	7.60	36.60
3	5120.00	50.7 PK	74.0	-23.3	1.04 V	83	14.00	36.70
4	5120.00	38.9 AV	54.0	-15.1	1.04 V	83	2.20	36.70
5	*5270.00	108.5 PK			1.09 V	243	71.50	37.00
6	*5270.00	96.2 AV			1.09 V	243	59.20	37.00
7	#10540.00	57.5 PK	68.3	-10.8	1.02 V	143	9.10	48.40

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	51.2 PK	74.0	-22.8	1.07 H	15	14.70	36.50
2	5000.00	46.3 AV	54.0	-7.7	1.07 H	15	9.80	36.50
3	*5310.00	107.3 PK			1.03 H	32	70.20	37.10
4	*5310.00	95.0 AV			1.03 H	32	57.90	37.10
5	5350.00	72.4 PK	74.0	-1.6	1.02 H	2	35.20	37.20
6	5350.00	51.7 AV	54.0	-2.3	1.02 H	2	14.50	37.20
7	10620.00	58.5 PK	74.0	-15.5	1.67 H	352	9.90	48.60
8	10620.00	47.1 AV	54.0	-6.9	1.67 H	352	-1.50	48.60
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	5000.00	49.5 PK	74.0	-24.5	1.35 V	228	13.00	36.50
2	5000.00	43.7 AV	54.0	-10.3	1.35 V	228	7.20	36.50
3	*5310.00	106.3 PK			1.27 V	325	69.20	37.10
4	*5310.00	94.3 AV			1.27 V	325	57.20	37.10
5	5350.00	70.6 PK	74.0	-3.4	1.20 V	192	33.40	37.20
6	5350.00	49.3 AV	54.0	-4.7	1.20 V	192	12.10	37.20
7	10620.00	57.3 PK	74.0	-16.7	1.22 V	195	8.70	48.60
8	10620.00	46.4 AV	54.0	-7.6	1.22 V	195	-2.20	48.60

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5040.00	50.8 PK	74.0	-23.2	1.05 H	188	14.20	36.60
2	5040.00	46.2 AV	54.0	-7.8	1.05 H	188	9.60	36.60
3	5460.00	60.5 PK	74.0	-13.5	1.00 H	123	23.20	37.30
4	5460.00	43.5 AV	54.0	-10.5	1.00 H	123	6.20	37.30
5	#5470.00	67.0 PK	68.3	-1.3	1.00 H	123	29.60	37.40
6	*5510.00	105.7 PK			1.05 H	323	68.30	37.40
7	*5510.00	93.4 AV			1.05 H	323	56.00	37.40
8	11020.00	58.5 PK	74.0	-15.5	1.32 H	47	9.80	48.70
9	11020.00	47.7 AV	54.0	-6.3	1.32 H	47	-1.00	48.70
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	5040.00	48.7 PK	74.0	-25.3	1.02 V	217	12.10	36.60
2	5040.00	43.2 AV	54.0	-10.8	1.02 V	217	6.60	36.60
3	5460.00	59.8 PK	74.0	-14.2	1.17 V	315	22.50	37.30
4	5460.00	42.2 AV	54.0	-11.8	1.17 V	315	4.90	37.30
5	#5470.00	63.8 PK	68.3	-4.5	1.17 V	315	26.40	37.40
6	*5510.00	104.9 PK			1.21 V	105	67.50	37.40
7	*5510.00	92.7 AV			1.21 V	105	55.30	37.40
8	11020.00	57.5 PK	74.0	-16.5	1.38 V	47	8.80	48.70
9	11020.00	46.2 AV	54.0	-7.8	1.38 V	47	-2.50	48.70

- 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 radiated frequency is out the restricted band.





A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH 1013 hPa	TESTED BY	Sun Lin

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	52.0 PK	74.0	-22.0	1.12 H	21	15.50	36.50
2	5000.00	46.8 AV	54.0	-7.2	1.12 H	21	10.30	36.50
3	*5550.00	108.8 PK			1.02 H	15	71.30	37.50
4	*5550.00	96.7 AV			1.02 H	15	59.20	37.50
5	#5725.00	51.5 PK	68.3	-16.8	1.02 H	15	13.50	38.00
6	11100.00	58.5 PK	74.0	-15.5	1.20 H	308	10.00	48.50
7	11100.00	47.5 AV	54.0	-6.5	1.20 H	308	-1.00	48.50
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	5000.00	49.5 PK	74.0	-24.5	1.00 V	347	13.00	36.50
2	5000.00	43.7 AV	54.0	-10.3	1.00 V	347	7.20	36.50
3	*5550.00	108.0 PK			1.05 V	163	70.50	37.50
4	*5550.00	95.7 AV			1.05 V	163	58.20	37.50
5	#5725.00	50.6 PK	68.3	-17.7	1.05 V	163	12.60	38.00
6	11100.00	57.5 PK	74.0	-16.5	1.52 V	289	9.00	48.50
7	11100.00	46.2 AV	54.0	-7.8	1.52 V	289	-2.30	48.50

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

**BELOW 1GHz WORST-CASE DATA : 802.11a**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	199.05	32.7 QP	43.5	-10.8	1.50 H	274	22.40	10.30
2	232.11	33.6 QP	46.0	-12.4	1.00 H	85	21.70	11.90
3	498.47	34.6 QP	46.0	-11.4	1.50 H	52	14.80	19.80
4	527.64	34.3 QP	46.0	-11.7	1.50 H	109	13.80	20.50
5	667.63	38.8 QP	46.0	-7.2	1.00 H	94	15.70	23.10
6	797.89	33.1 QP	46.0	-12.9	1.00 H	325	8.50	24.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	30.1 QP	43.5	-13.4	1.50 V	220	20.00	10.10
2	461.53	29.5 QP	46.0	-16.5	1.50 V	4	10.70	18.80
3	529.58	31.2 QP	46.0	-14.8	1.50 V	10	10.70	20.50
4	665.68	37.5 QP	46.0	-8.5	1.00 V	181	14.40	23.10
5	860.11	30.1 QP	46.0	-15.9	1.00 V	10	4.70	25.40
6	926.22	34.7 QP	46.0	-11.3	1.50 V	7	8.40	26.30

- 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.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1013 hPa	TESTED BY	Brad 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	99.89	33.9 QP	43.5	-9.6	1.50 H	160	23.80	10.10
2	234.05	32.6 QP	46.0	-13.4	1.00 H	85	20.60	12.00
3	300.16	31.6 QP	46.0	-14.4	1.00 H	70	16.90	14.70
4	498.47	33.6 QP	46.0	-12.4	1.50 H	52	13.80	19.80
5	527.64	32.9 QP	46.0	-13.1	1.50 H	118	12.40	20.50
6	900.94	32.1 QP	46.0	-13.9	1.50 H	226	6.20	25.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.06	30.0 QP	40.0	-10.0	2.00 V	10	16.80	13.20
2	333.21	27.4 QP	46.0	-18.6	1.50 V	46	11.90	15.50
3	463.48	30.6 QP	46.0	-15.4	1.50 V	10	11.70	18.90
4	527.64	31.4 QP	46.0	-14.6	1.50 V	10	10.90	20.50
5	595.69	29.7 QP	46.0	-16.3	1.50 V	10	7.80	21.90
6	667.63	37.1 QP	46.0	-8.9	1.50 V	199	14.00	23.10

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

## 4.2 CONDUCTED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

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

### 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Sep. 30, 2010	Sep. 29, 2011
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 31, 2009	Dec. 30, 2010
LISN ROHDE & SCHWARZ	ESH2-Z5	828075/003	Aug. 23, 2010	Aug. 22, 2011
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jul. 08, 2010	Jul. 07, 2011
Software ADT	ADT_Cond_ V7.3.7	NA	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in HwaYa Shielded Room 2.
  3. The VCCI Site Registration No. is C-2047.

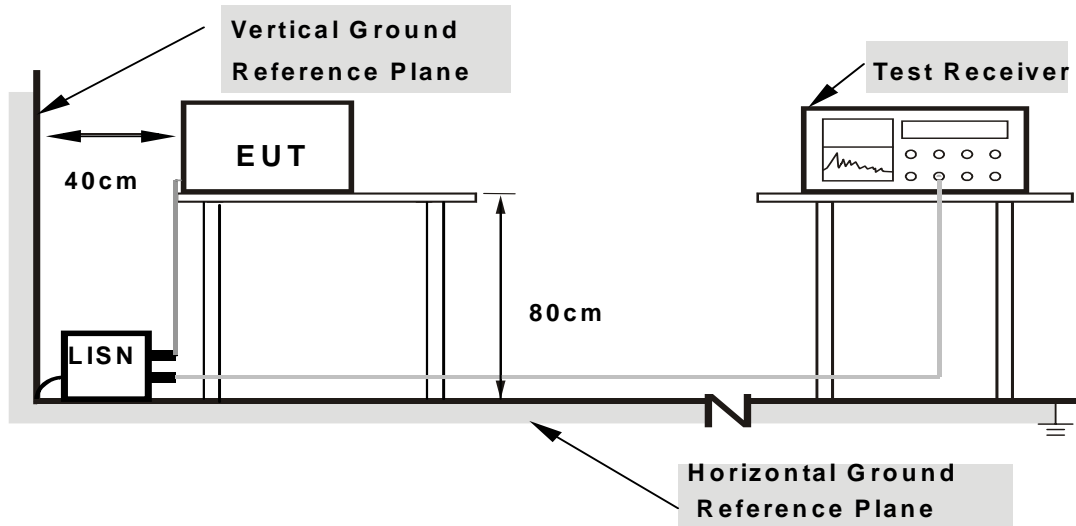
#### 4.2.3 TEST PROCEDURES

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

#### 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.

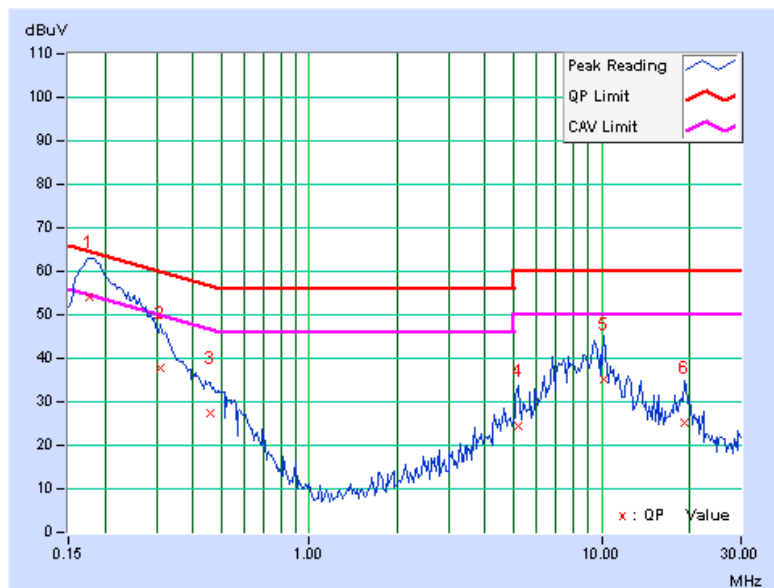
### 4.2.7 TEST RESULTS (A1)

#### CONDUCTED WORST-CASE DATA : 802.11n (40MHz)

<b>CHANNEL</b>	Channel 62	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.16	53.81	-	53.97	-	64.61	54.61	-10.64	-
2	0.310	0.17	37.71	-	37.88	-	59.97	49.97	-22.09	-
3	0.459	0.18	27.40	-	27.58	-	56.72	46.72	-29.13	-
4	5.203	0.35	24.25	-	24.60	-	60.00	50.00	-35.40	-
5	10.164	0.35	34.81	-	35.16	-	60.00	50.00	-24.84	-
6	19.148	0.66	24.59	-	25.25	-	60.00	50.00	-34.75	-

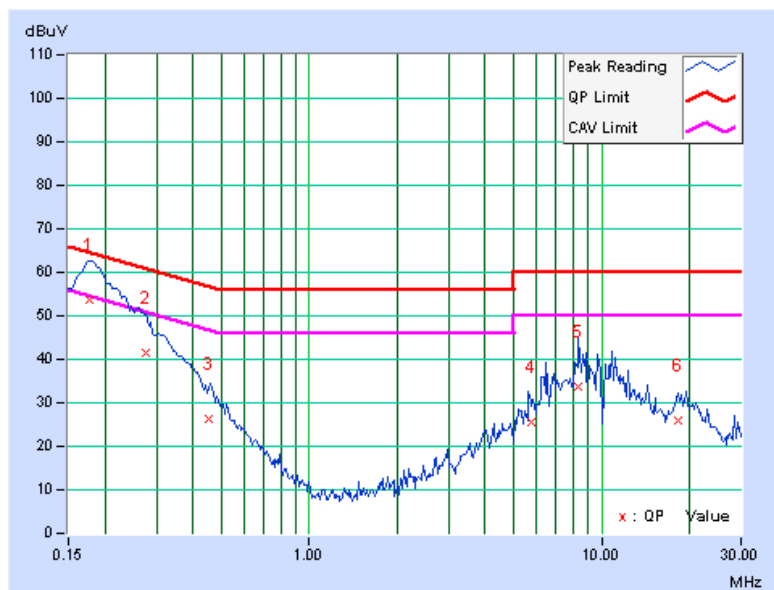
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 62	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.13	53.40	-	53.53	-	64.61	54.61	-11.08	-
2	0.275	0.14	41.41	-	41.55	-	60.97	50.97	-19.41	-
3	0.455	0.17	25.96	-	26.13	-	56.79	46.79	-30.66	-
4	5.719	0.38	25.33	-	25.71	-	60.00	50.00	-34.29	-
5	8.324	0.42	33.43	-	33.85	-	60.00	50.00	-26.15	-
6	18.309	0.83	25.06	-	25.89	-	60.00	50.00	-34.11	-

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



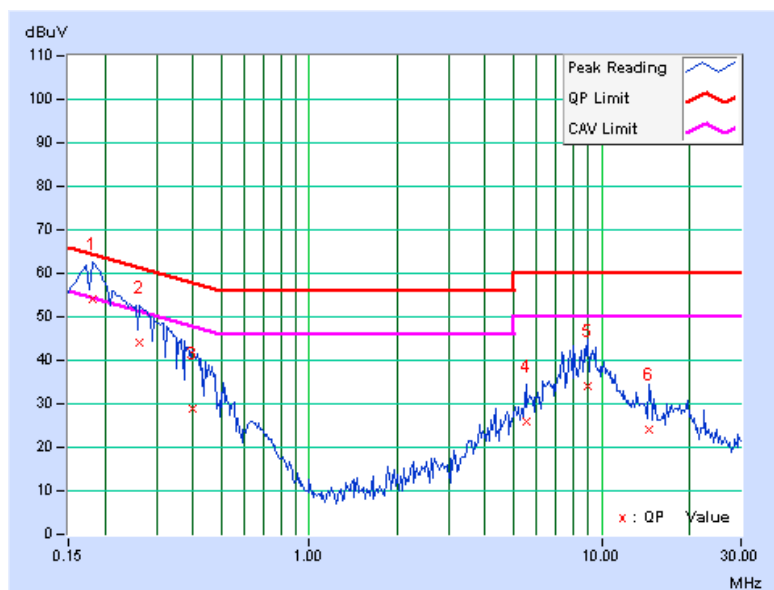


**CONDUCTED WORST-CASE DATA : 802.11a**

<b>CHANNEL</b>	Channel 140	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.181	0.16	53.93	-	54.09	-	64.43	54.43	-10.34	-
2	0.263	0.17	43.98	-	44.15	-	61.33	51.33	-17.18	-
3	0.400	0.18	28.63	-	28.81	-	57.85	47.85	-29.04	-
4	5.504	0.35	25.65	-	26.00	-	60.00	50.00	-34.00	-
5	8.934	0.35	33.84	-	34.19	-	60.00	50.00	-25.81	-
6	14.535	0.49	23.42	-	23.91	-	60.00	50.00	-36.09	-

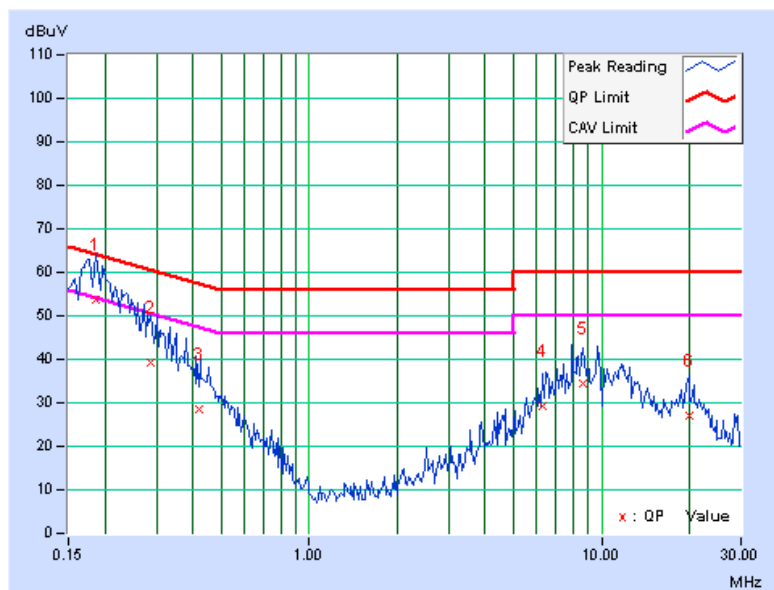
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 140	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.13	53.45	-	53.58	-	64.25	54.25	-10.67	-
2	0.287	0.14	39.28	-	39.42	-	60.62	50.62	-21.20	-
3	0.420	0.16	28.46	-	28.62	-	57.46	47.46	-28.84	-
4	6.258	0.39	28.88	-	29.27	-	60.00	50.00	-30.73	-
5	8.672	0.42	34.20	-	34.62	-	60.00	50.00	-25.38	-
6	19.875	0.91	25.98	-	26.89	-	60.00	50.00	-33.11	-

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



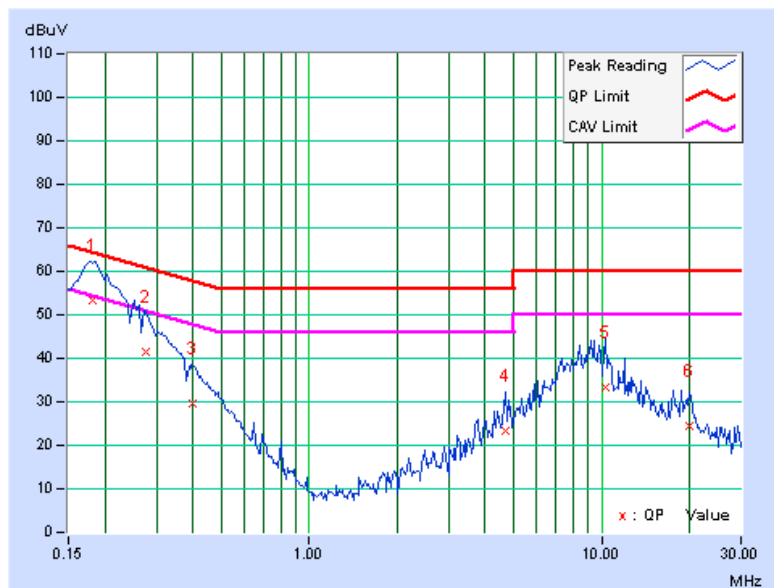
### 4.2.8 TEST RESULTS (A2)

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

<b>CHANNEL</b>	Channel 60	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.16	53.23	-	53.39	-	64.43	54.43	-11.04	-
2	0.275	0.17	41.46	-	41.63	-	60.97	50.97	-19.34	-
3	0.400	0.18	29.61	-	29.79	-	57.85	47.85	-28.06	-
4	4.668	0.35	23.13	-	23.48	-	56.00	46.00	-32.52	-
5	10.348	0.36	32.87	-	33.23	-	60.00	50.00	-26.77	-
6	19.918	0.69	23.80	-	24.49	-	60.00	50.00	-35.51	-

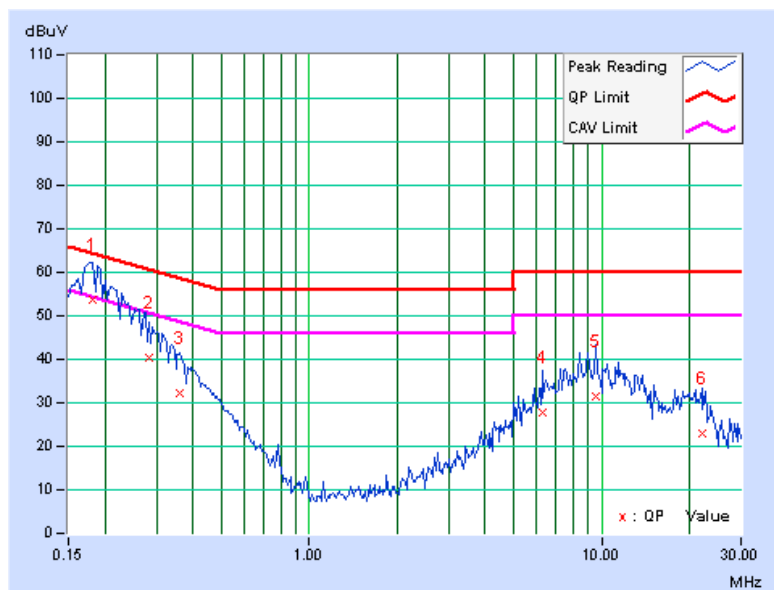
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 60	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.13	53.59	-	53.72	-	64.43	54.43	-10.71	-
2	0.283	0.14	40.29	-	40.43	-	60.73	50.73	-20.30	-
3	0.361	0.15	32.02	-	32.17	-	58.71	48.71	-26.53	-
4	6.277	0.39	27.42	-	27.81	-	60.00	50.00	-32.19	-
5	9.520	0.43	31.04	-	31.47	-	60.00	50.00	-28.53	-
6	22.066	0.89	22.07	-	22.96	-	60.00	50.00	-37.04	-

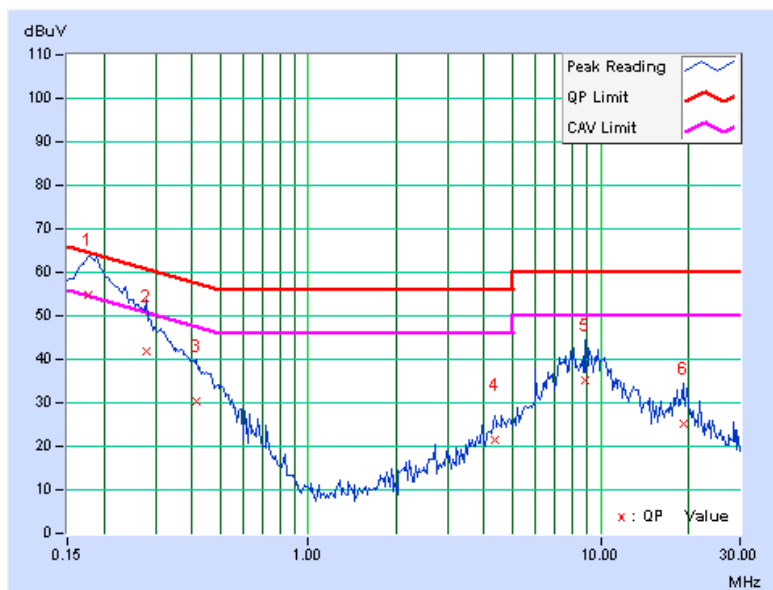
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 136	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.177	0.16	54.57	23.79	54.73	23.95	64.61	54.61	-9.88	-30.66
2	0.279	0.17	41.72	-	41.89	-	60.85	50.85	-18.96	-
3	0.416	0.18	30.18	-	30.36	-	57.54	47.54	-27.17	-
4	4.336	0.35	21.07	-	21.42	-	56.00	46.00	-34.58	-
5	8.859	0.35	34.75	-	35.10	-	60.00	50.00	-24.90	-
6	19.121	0.66	24.44	-	25.10	-	60.00	50.00	-34.90	-

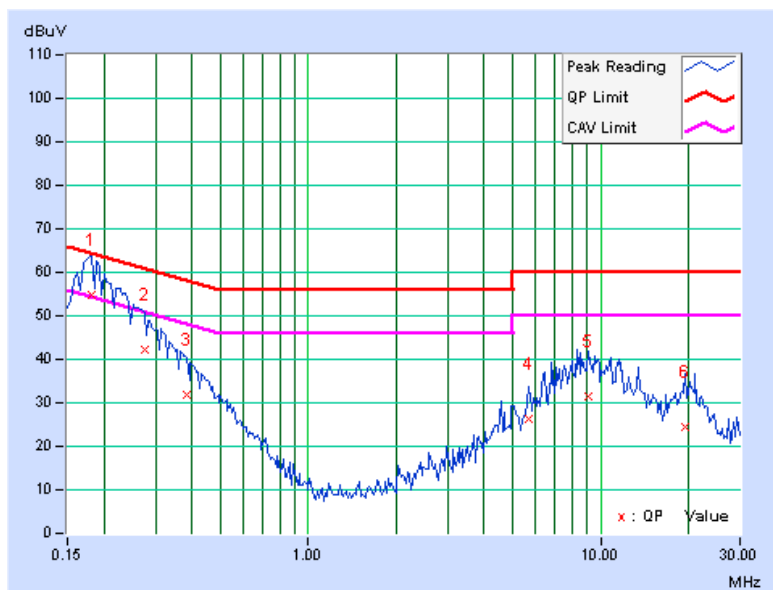
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 136	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.13	54.57	23.77	54.70	23.90	64.43	54.43	-9.73	-30.53
2	0.275	0.14	42.06	-	42.20	-	60.97	50.97	-18.76	-
3	0.384	0.16	31.51	-	31.67	-	58.18	48.18	-26.52	-
4	5.707	0.38	25.91	-	26.29	-	60.00	50.00	-33.71	-
5	9.055	0.43	30.88	-	31.31	-	60.00	50.00	-28.69	-
6	19.469	0.89	23.39	-	24.28	-	60.00	50.00	-35.72	-

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



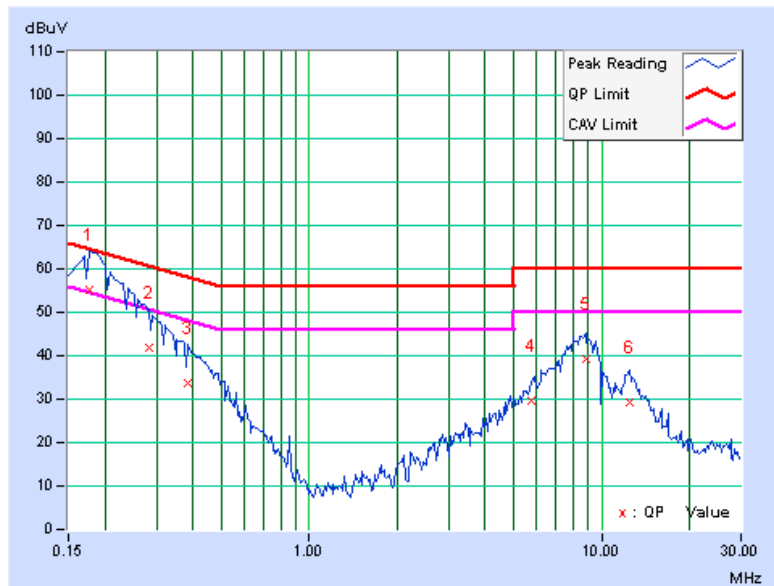
#### 4.2.9 TEST RESULTS (B1)

##### CONDUCTED WORST-CASE DATA : 802.11a

<b>CHANNEL</b>	Channel 60	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.16	55.11	24.60	55.27	24.76	64.61	54.61	-9.34	-29.85
2	0.283	0.17	41.86	-	42.03	-	60.73	50.73	-18.70	-
3	0.384	0.18	33.60	-	33.78	-	58.18	48.18	-24.41	-
4	5.750	0.35	29.31	-	29.66	-	60.00	50.00	-30.34	-
5	8.813	0.35	39.01	-	39.36	-	60.00	50.00	-20.64	-
6	12.480	0.42	29.01	-	29.43	-	60.00	50.00	-30.57	-

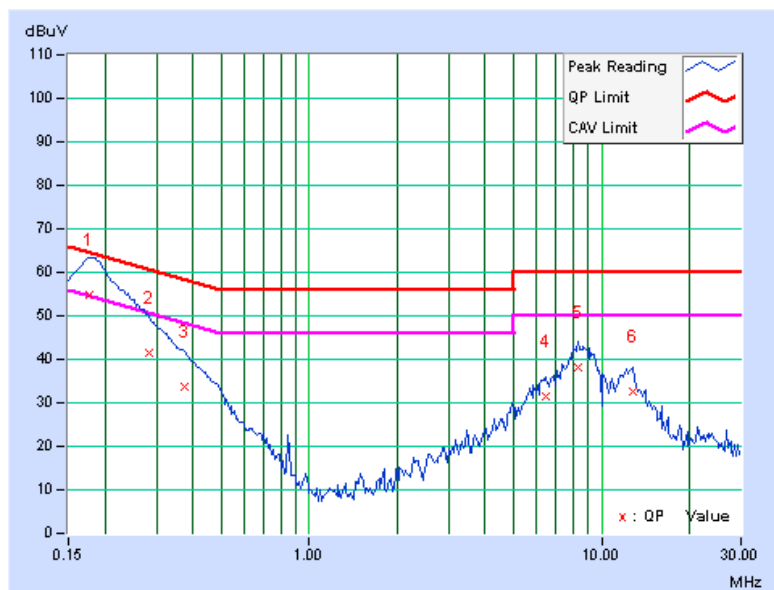
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 60	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.13	54.79	24.26	54.92	24.39	64.61	54.61	-9.69	-30.22
2	0.283	0.14	41.48	-	41.62	-	60.73	50.73	-19.11	-
3	0.373	0.16	33.64	-	33.80	-	58.44	48.44	-24.65	-
4	6.445	0.39	31.06	-	31.45	-	60.00	50.00	-28.55	-
5	8.352	0.42	37.72	-	38.14	-	60.00	50.00	-21.86	-
6	12.781	0.56	32.02	-	32.58	-	60.00	50.00	-27.42	-

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





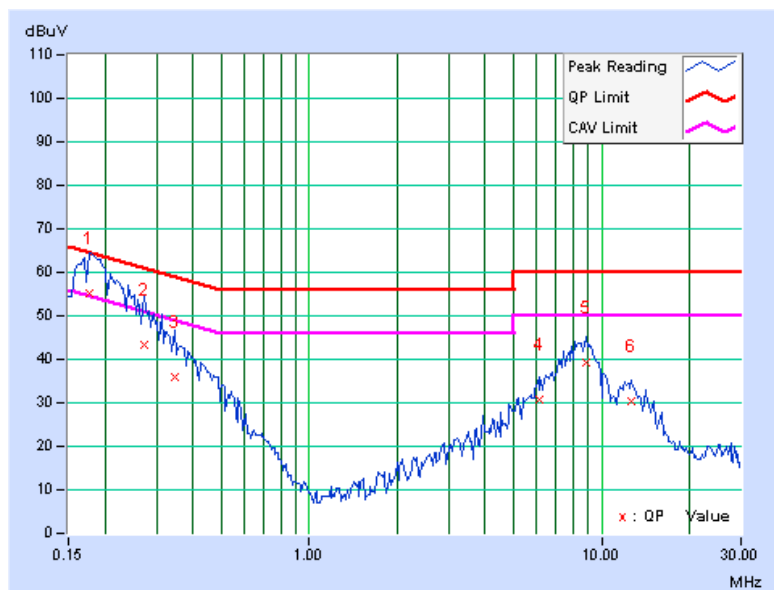


A D T

<b>CHANNEL</b>	Channel 116	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.16	54.93	24.32	55.09	24.48	64.61	54.61	-9.52	-30.13
2	0.271	0.17	43.10	-	43.27	-	61.08	51.08	-17.82	-
3	0.345	0.17	35.80	-	35.97	-	59.07	49.07	-23.10	-
4	6.109	0.35	30.42	-	30.77	-	60.00	50.00	-29.23	-
5	8.824	0.35	38.91	-	39.26	-	60.00	50.00	-20.74	-
6	12.715	0.43	29.77	-	30.20	-	60.00	50.00	-29.80	-

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



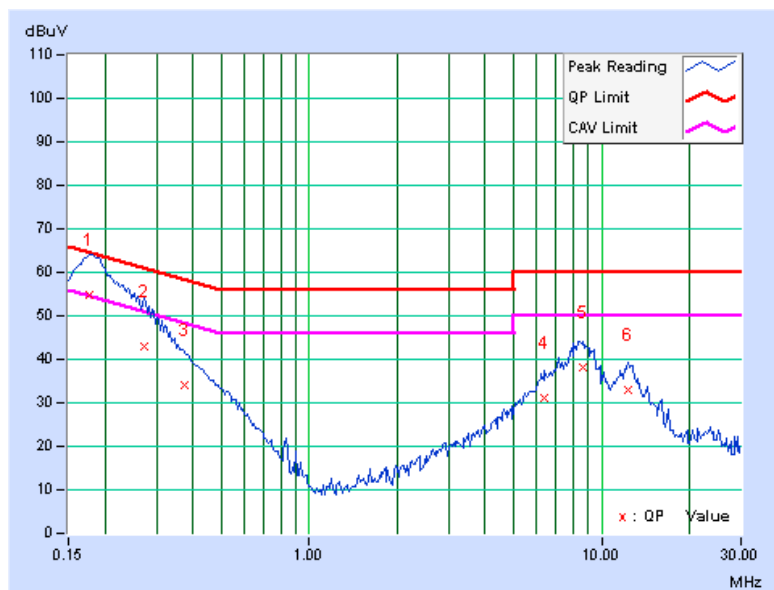


A D T

<b>CHANNEL</b>	Channel 116	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.13	54.81	24.26	54.94	24.39	64.61	54.61	-9.67	-30.22
2	0.271	0.14	42.96	-	43.10	-	61.08	51.08	-17.98	-
3	0.373	0.16	33.74	-	33.90	-	58.44	48.44	-24.55	-
4	6.402	0.39	30.80	-	31.19	-	60.00	50.00	-28.81	-
5	8.637	0.42	37.72	-	38.14	-	60.00	50.00	-21.86	-
6	12.289	0.54	32.28	-	32.82	-	60.00	50.00	-27.18	-

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



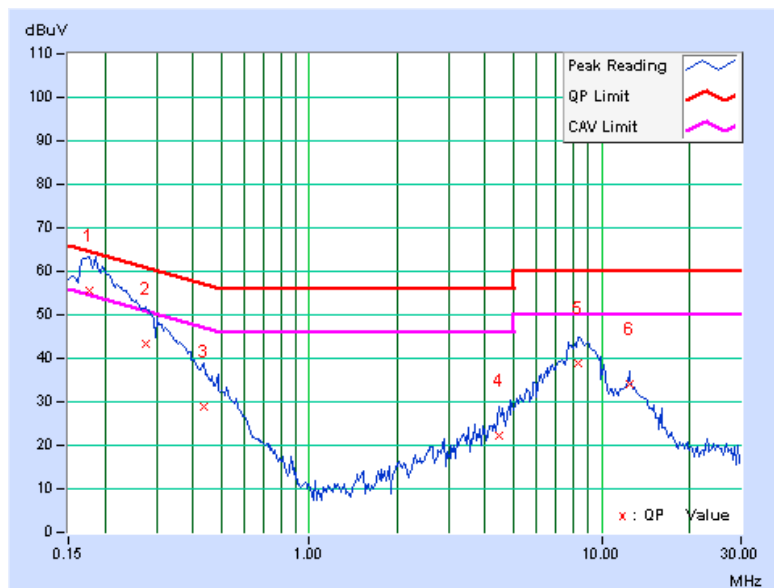
### 4.2.10 TEST RESULTS (B2)

#### CONDUCTED WORST-CASE DATA : 802.11a

<b>CHANNEL</b>	Channel 52	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.16	55.50	24.36	55.66	24.52	64.61	54.61	-8.95	-30.09
2	0.275	0.17	43.22	-	43.39	-	60.97	50.97	-17.58	-
3	0.435	0.18	28.57	-	28.75	-	57.15	47.15	-28.40	-
4	4.441	0.35	22.05	-	22.40	-	56.00	46.00	-33.60	-
5	8.344	0.35	38.63	-	38.98	-	60.00	50.00	-21.02	-
6	12.480	0.42	33.48	-	33.90	-	60.00	50.00	-26.10	-

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



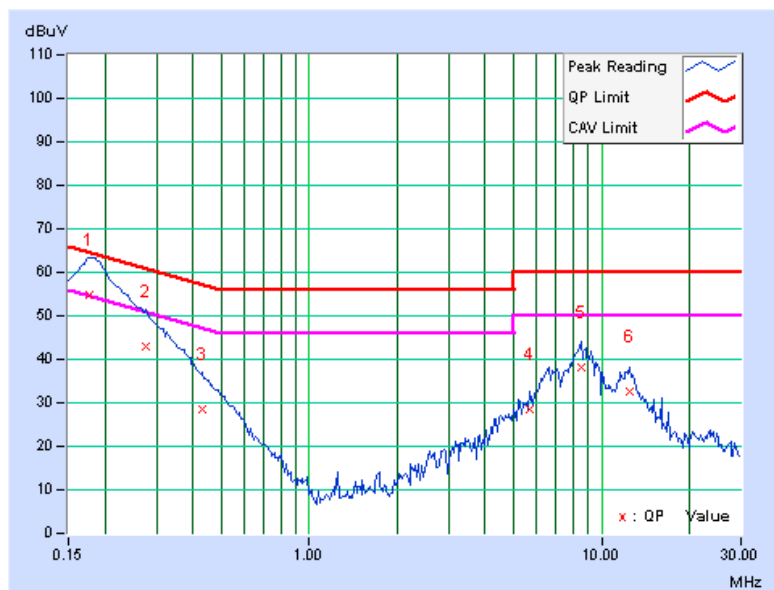


A D T

<b>CHANNEL</b>	Channel 52	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.177	0.13	54.61	24.04	54.74	24.17	64.61	54.61	-9.87	-30.44
2	0.275	0.14	42.78	-	42.92	-	60.97	50.97	-18.04	-
3	0.431	0.16	28.39	-	28.55	-	57.23	47.23	-28.68	-
4	5.715	0.38	28.08	-	28.46	-	60.00	50.00	-31.54	-
5	8.516	0.42	37.57	-	37.99	-	60.00	50.00	-22.01	-
6	12.414	0.55	31.95	-	32.50	-	60.00	50.00	-27.50	-

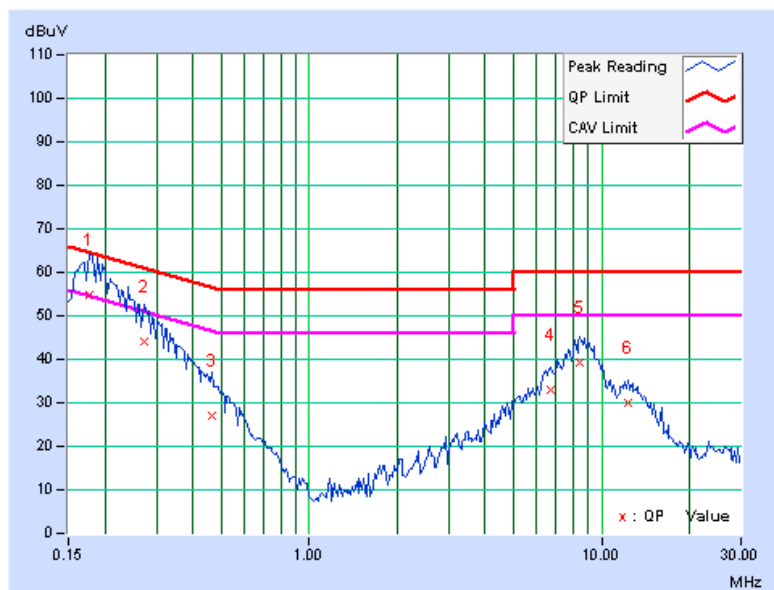
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 116	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.177	0.16	54.81	24.30	54.97	24.46	64.61	54.61	-9.64	-30.15
2	0.271	0.17	43.81	-	43.98	-	61.08	51.08	-17.11	-
3	0.466	0.19	27.01	-	27.20	-	56.58	46.58	-29.38	-
4	6.672	0.35	32.49	-	32.84	-	60.00	50.00	-27.16	-
5	8.465	0.35	38.89	-	39.24	-	60.00	50.00	-20.76	-
6	12.316	0.42	29.71	-	30.13	-	60.00	50.00	-29.87	-

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



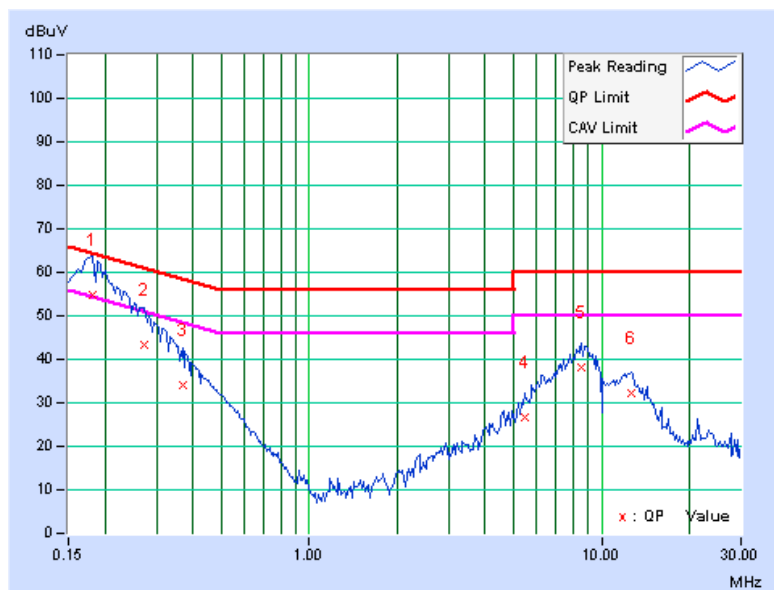


A D T

<b>CHANNEL</b>	Channel 116	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.13	54.83	24.36	54.96	24.49	64.43	54.43	-9.47	-29.94
2	0.271	0.14	43.32	-	43.46	-	61.08	51.08	-17.62	-
3	0.369	0.16	33.85	-	34.01	-	58.53	48.53	-24.52	-
4	5.500	0.38	26.26	-	26.64	-	60.00	50.00	-33.36	-
5	8.539	0.42	37.75	-	38.17	-	60.00	50.00	-21.83	-
6	12.621	0.56	31.61	-	32.17	-	60.00	50.00	-27.83	-

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



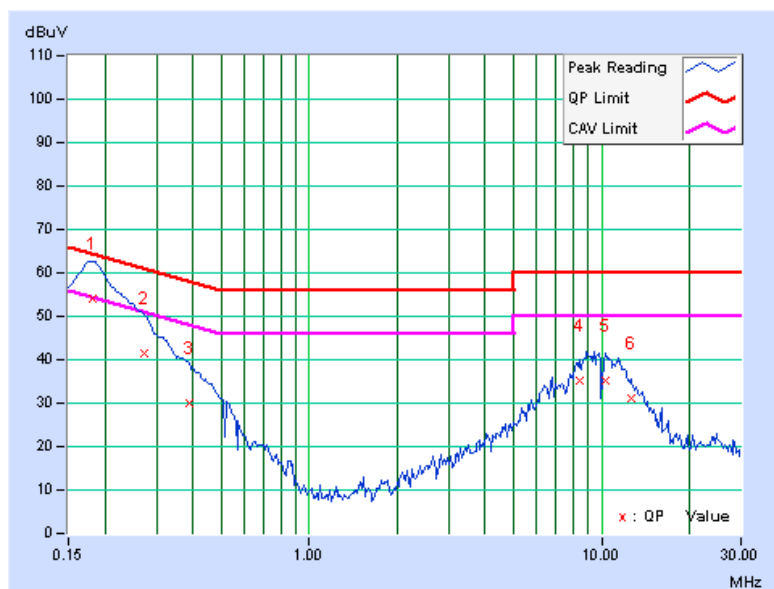
#### 4.2.11 TEST RESULTS (C1)

CONDUCTED WORST-CASE DATA : 802.11a

<b>CHANNEL</b>	Channel 52	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.181	0.16	53.93	-	54.09	-	64.43	54.43	-10.34	-
2	0.271	0.17	41.29	-	41.46	-	61.08	51.08	-19.63	-
3	0.388	0.18	29.73	-	29.91	-	58.10	48.10	-28.19	-
4	8.410	0.35	34.88	-	35.23	-	60.00	50.00	-24.77	-
5	10.336	0.36	34.73	-	35.09	-	60.00	50.00	-24.91	-
6	12.664	0.43	30.76	-	31.19	-	60.00	50.00	-28.81	-

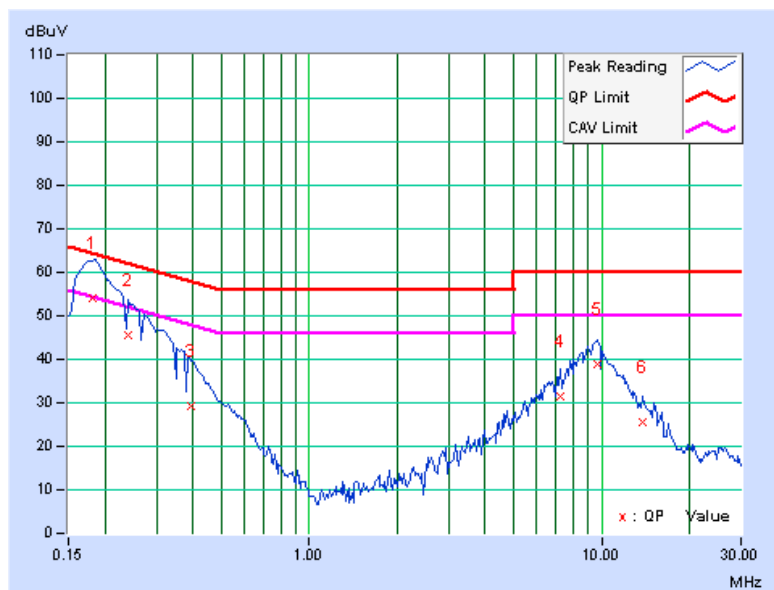
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 52	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.13	54.11	-	54.24	-	64.43	54.43	-10.19	-
2	0.240	0.14	45.47	-	45.61	-	62.10	52.10	-16.50	-
3	0.392	0.16	29.24	-	29.40	-	58.02	48.02	-28.62	-
4	7.254	0.40	31.20	-	31.60	-	60.00	50.00	-28.40	-
5	9.645	0.44	38.33	-	38.77	-	60.00	50.00	-21.23	-
6	13.789	0.61	25.08	-	25.69	-	60.00	50.00	-34.31	-

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





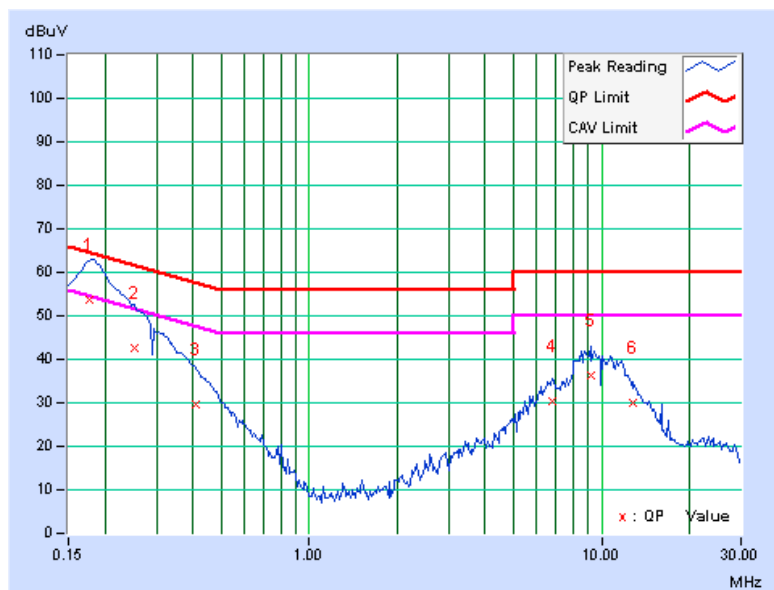


A D T

<b>CHANNEL</b>	Channel 140	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.177	0.16	53.49	-	53.65	-	64.61	54.61	-10.96	-
2	0.252	0.17	42.41	-	42.58	-	61.71	51.71	-19.13	-
3	0.408	0.18	29.45	-	29.63	-	57.69	47.69	-28.06	-
4	6.805	0.35	30.06	-	30.41	-	60.00	50.00	-29.59	-
5	9.207	0.35	35.82	-	36.17	-	60.00	50.00	-23.83	-
6	12.875	0.44	29.62	-	30.06	-	60.00	50.00	-29.94	-

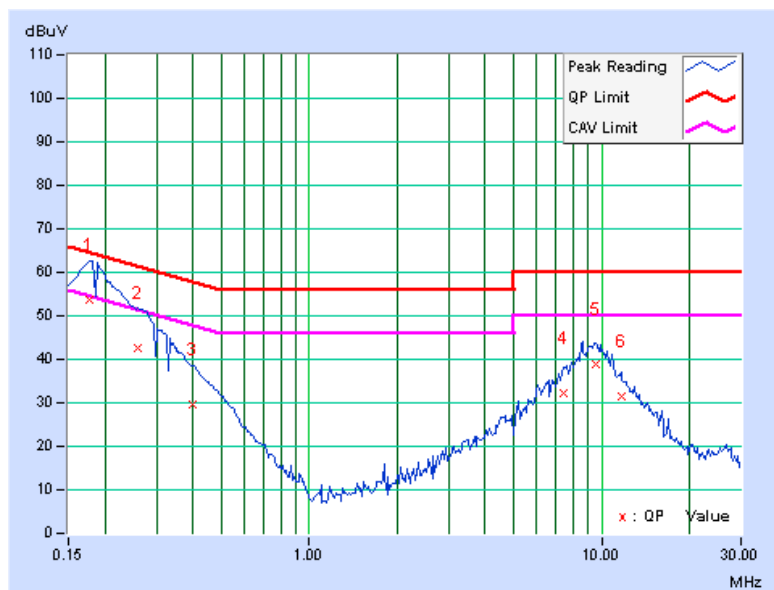
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 140	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.13	53.69	-	53.82	-	64.61	54.61	-10.79	-
2	0.259	0.14	42.29	-	42.43	-	61.45	51.45	-19.02	-
3	0.400	0.16	29.48	-	29.64	-	57.85	47.85	-28.21	-
4	7.457	0.41	31.87	-	32.28	-	60.00	50.00	-27.72	-
5	9.516	0.43	38.59	-	39.02	-	60.00	50.00	-20.98	-
6	11.711	0.52	30.98	-	31.50	-	60.00	50.00	-28.50	-

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



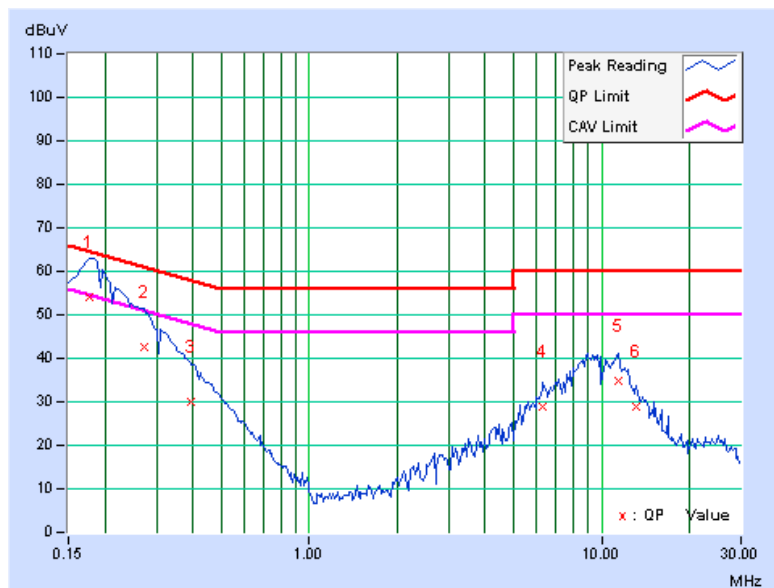
### 4.2.12 TEST RESULTS (C2)

#### CONDUCTED WORST-CASE DATA : 802.11a

<b>CHANNEL</b>	Channel 52	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.16	53.85	-	54.01	-	64.61	54.61	-10.60	-
2	0.271	0.17	42.36	-	42.53	-	61.08	51.08	-18.56	-
3	0.392	0.18	29.77	-	29.95	-	58.02	48.02	-28.07	-
4	6.301	0.35	28.54	-	28.89	-	60.00	50.00	-31.11	-
5	11.352	0.39	34.53	-	34.92	-	60.00	50.00	-25.08	-
6	13.203	0.45	28.30	-	28.75	-	60.00	50.00	-31.25	-

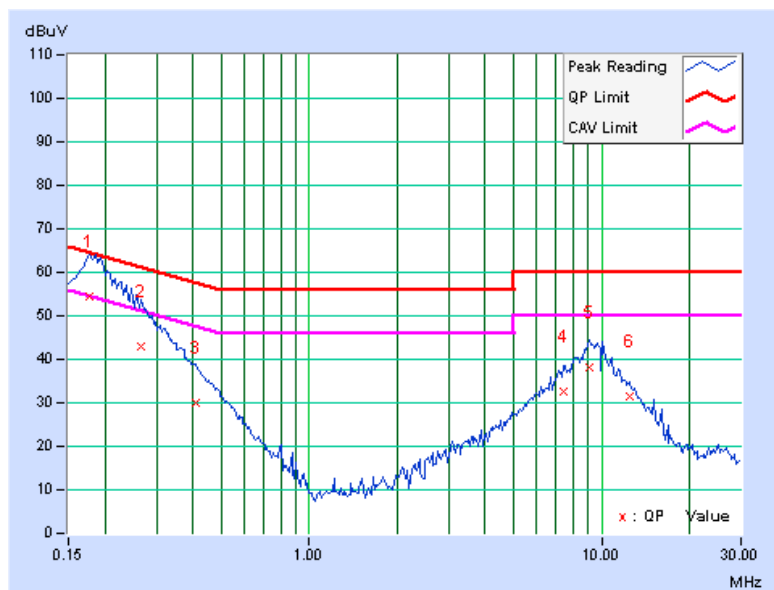
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 52	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.177	0.13	54.19	-	54.32	-	64.61	54.61	-10.29	-
2	0.267	0.14	42.73	-	42.87	-	61.20	51.20	-18.33	-
3	0.408	0.16	29.86	-	30.02	-	57.69	47.69	-27.67	-
4	7.426	0.41	32.23	-	32.64	-	60.00	50.00	-27.36	-
5	9.086	0.43	37.87	-	38.30	-	60.00	50.00	-21.70	-
6	12.484	0.55	30.82	-	31.37	-	60.00	50.00	-28.63	-

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



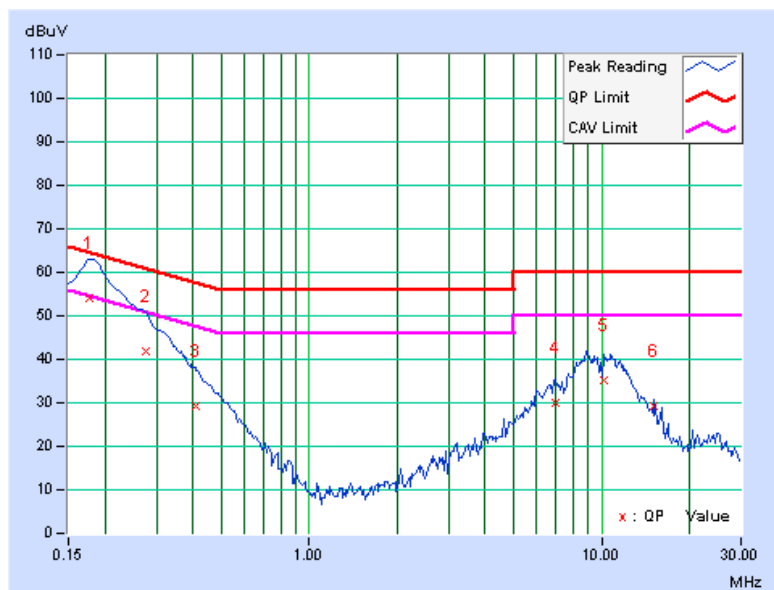


A D T

<b>CHANNEL</b>	Channel 140	<b>PHASE</b>	Line 1
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. [dB (uV)]	AV. [dB (uV)]	Q.P. (dB)	AV. (dB)
1	0.177	0.16	53.91	-	54.07	-	64.61	54.61	-10.54	-
2	0.275	0.17	41.82	-	41.99	-	60.97	50.97	-18.98	-
3	0.408	0.18	29.11	-	29.29	-	57.69	47.69	-28.40	-
4	6.945	0.35	29.49	-	29.84	-	60.00	50.00	-30.16	-
5	10.141	0.35	34.73	-	35.08	-	60.00	50.00	-24.92	-
6	15.156	0.51	28.61	-	29.12	-	60.00	50.00	-30.88	-

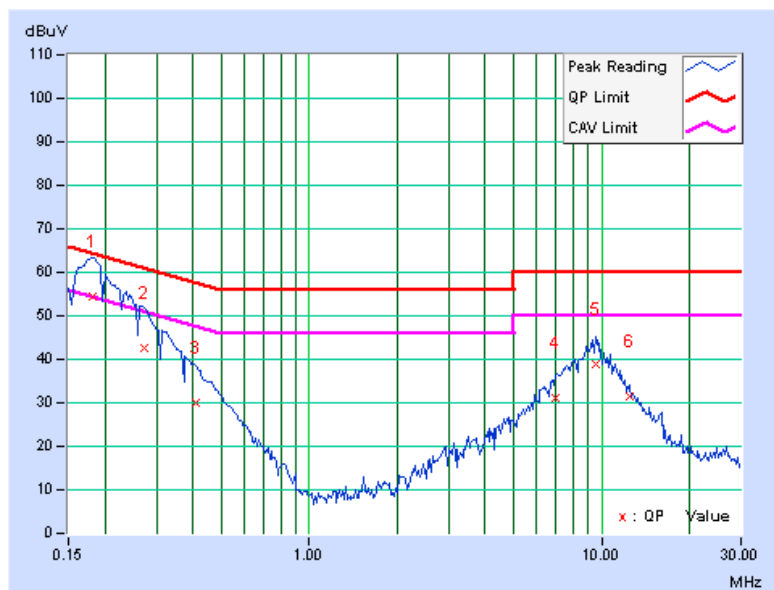
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>CHANNEL</b>	Channel 140	<b>PHASE</b>	Line 2
<b>6dB BANDWIDTH</b>	9kHz		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.13	54.15	-	54.28	-	64.43	54.43	-10.15	-
2	0.271	0.14	42.30	-	42.44	-	61.08	51.08	-18.64	-
3	0.408	0.16	29.98	-	30.14	-	57.69	47.69	-27.55	-
4	6.977	0.40	30.61	-	31.01	-	60.00	50.00	-28.99	-
5	9.531	0.43	38.32	-	38.75	-	60.00	50.00	-21.25	-
6	12.484	0.55	30.80	-	31.35	-	60.00	50.00	-28.65	-

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



### 4.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

#### 4.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

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

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

#### 4.3.2 TEST INSTRUMENTS

##### FOR POWER OUTPUT MEASUREMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
High Speed Peak Power Meter	ML2495A	0842014	Apr. 21, 2010	Apr. 20, 2011
Power Sensor	MA2411B	0738404	Apr. 21, 2010	Apr. 20, 2011

**Note:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Measurement Bandwidth of ML2495A is 65MHz greater than 26dB bandwidth of emission.

##### FOR 26dB OCCUPIED BANDWIDTH

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSP40	100039	Jan. 11, 2010	Jan. 10, 2011

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

### 4.3.3 TEST PROCEDURE

#### FOR POWER OUTPUT MEASUREMENT

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

#### FOR 26dB OCCUPIED BANDWIDTH

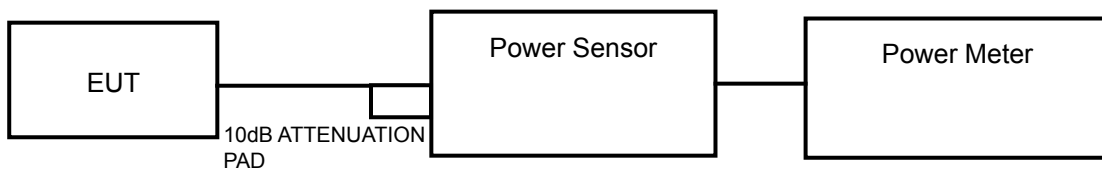
The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW. The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

### 4.3.4 DEVIATION FROM TEST STANDARD

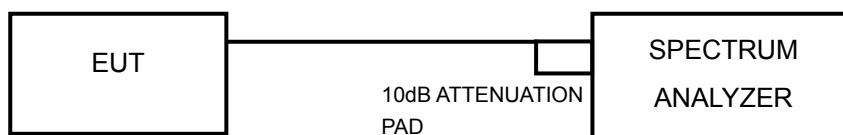
No deviation.

### 4.3.5 TEST SETUP

#### FOR POWER OUTPUT MEASUREMENT



#### FOR 26dB OCCUPIED BANDWIDTH



### 4.3.6 EUT OPERATING CONDITIONS

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



#### 4.3.7 TEST RESULTS (A1)

##### POWER OUTPUT: 802.11a

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	12.4	13.0	13.2	58.2	17.7	18.2	PASS
60	5300	12.3	13.1	13.2	58.3	17.7	18.2	PASS
64	5320	12.6	13.2	13.3	60.5	17.8	18.2	PASS
100	5500	12.3	13.2	13.4	59.8	17.8	18.2	PASS
116	5580	12.4	13.3	13.4	60.6	17.8	18.2	PASS
136	5680	12.4	13.1	13.5	60.2	17.8	18.2	PASS
140	5700	12.6	13.2	13.5	61.5	17.9	18.2	PASS

**NOTE:**

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$ , so the conducted power limit shall be reduced to  $24 - (11.79 - 6) = 18.2\text{dBm}$ .

##### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	12.4	13.5	13.6	62.7	18.0	18.2	PASS
60	5300	12.1	13.2	13.6	60.0	17.8	18.2	PASS
64	5320	12.3	13.1	13.5	59.8	17.8	18.2	PASS
100	5500	12.1	13.2	13.4	59.0	17.7	18.2	PASS
116	5580	12.2	13.4	13.6	61.4	17.9	18.2	PASS
136	5680	12.2	13.2	13.5	59.9	17.8	18.2	PASS
140	5700	12.1	13.4	13.3	59.5	17.7	18.2	PASS

**NOTE:**

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$ , so the conducted power limit shall be reduced to  $24 - (11.79 - 6) = 18.2\text{dBm}$ .



**802.11n (40MHz)**

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	12.2	13.3	13.5	60.4	17.8	18.2	PASS
62	5310	12.3	13.5	13.6	62.3	17.9	18.2	PASS
102	5510	12.1	13.2	13.4	59.0	17.7	18.2	PASS
110	5550	12.3	13.3	13.5	60.7	17.8	18.2	PASS

**NOTE:**

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$  , so the conducted power limit shall be reduced to  $24 - (11.79 - 6) = 18.2\text{dBm}$ .

#### 4.3.8 TEST RESULTS (A2)

##### POWER OUTPUT: 802.11a

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	12.5	13.2	13.4	60.6	17.8	18.2	PASS
60	5300	12.4	13.1	13.3	59.2	17.7	18.2	PASS
64	5320	12.6	13.3	13.4	61.5	17.9	18.2	PASS
100	5500	12.4	13.1	13.5	60.2	17.8	18.2	PASS
116	5580	12.5	13.3	13.5	61.5	17.9	18.2	PASS
136	5680	12.6	13.0	13.4	60.0	17.8	18.2	PASS
140	5700	12.5	13.4	13.4	61.5	17.9	18.2	PASS

**NOTE:**

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$ , so the conducted power limit shall be reduced to  $24 - (11.79 - 6) = 11.2\text{dBm}$ .

##### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.1	14.8	15.2	89.0	19.5	23.0	PASS
60	5300	14.0	15	15.3	90.6	19.6	23.0	PASS
64	5320	13.9	15.1	15.0	88.5	19.5	23.0	PASS
100	5500	14.2	14.8	15.1	88.9	19.5	23.0	PASS
116	5580	14.1	14.9	15.0	88.2	19.5	23.0	PASS
136	5680	14.2	15.0	15.1	90.3	19.6	23.0	PASS
140	5700	14.1	14.9	15.0	88.2	19.5	23.0	PASS

**NOTE:** According to 15.407 (a) (1) (2) (3), the maximum antenna gain 7.02dBi is higher than 6dBi, so the limit of conducted power shall be reduced by 1.02dB.



802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	14.1	14.9	15.2	89.7	19.5	23.0	PASS
62	5310	14.0	14.8	15.1	87.7	19.4	23.0	PASS
102	5510	13.0	13.6	13.8	66.8	18.3	23.0	PASS
110	5550	14.1	15.0	15.1	89.7	19.5	23.0	PASS

**NOTE:** According to 15.407 (a) (1) (2) (3), the maximum antenna gain 7.02dBi is higher than 6dBi, so the limit of conducted power shall be reduced by 1.2dB.

### 4.3.9 TEST RESULTS (B1)

#### POWER OUTPUT: 802.11a

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.3	15.3	15.8	98.8	19.9	21.2	PASS
60	5300	14.2	15.2	15.8	97.4	19.9	21.2	PASS
64	5320	14.3	15.1	15.6	95.6	19.8	21.2	PASS
100	5500	14.1	15.0	15.5	92.8	19.7	21.2	PASS
116	5580	14.2	15.1	15.6	95.0	19.8	21.2	PASS
136	5680	14.1	15.2	15.5	94.3	19.7	21.2	PASS
140	5700	12.7	13.6	13.9	66.1	18.2	21.2	PASS

**NOTE:**

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain = 4dBi + 10log(3)=8.77dBi > 6dBi , so the conducted power limit shall be reduced to 24-(8.77-6)= 21.2dBm.

#### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.0	14.8	15.2	88.4	19.5	21.2	PASS
60	5300	14.0	15.1	15.2	90.6	19.6	21.2	PASS
64	5320	13.8	15.0	15.1	88.0	19.4	21.2	PASS
100	5500	14.0	14.7	15.1	87.0	19.4	21.2	PASS
116	5580	14.1	14.7	15.0	86.8	19.4	21.2	PASS
136	5680	14.1	14.8	15.3	89.8	19.5	21.2	PASS
140	5700	12.6	13.8	13.9	66.7	18.2	21.2	PASS

**NOTE:**

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain = 4dBi + 10log(3)=8.77dBi > 6dBi , so the conducted power limit shall be reduced to 24-(8.77-6)= 21.2dBm.



802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	14.0	14.8	15.2	88.4	19.5	21.2	PASS
62	5310	13.9	14.8	15.0	86.4	19.4	21.2	PASS
102	5510	10.5	11.5	11.4	39.1	15.9	21.2	PASS
110	5550	14.1	14.9	15.2	89.7	19.5	21.2	PASS

**NOTE:**

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain =  $4\text{dBi} + 10\log(3) = 8.77\text{dBi} > 6\text{dBi}$  , so the conducted power limit shall be reduced to  $24 - (8.77 - 6) = 21.2\text{dBm}$ .



#### 4.3.10 TEST RESULTS (B2)

##### POWER OUTPUT: 802.11a

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.3	15.4	15.9	100.5	20.0	21.2	PASS
60	5300	14.4	15.3	15.8	99.4	20.0	21.2	PASS
64	5320	14.5	15.2	15.5	96.8	19.9	21.2	PASS
100	5500	14.3	15.1	15.6	95.6	19.8	21.2	PASS
116	5580	14.2	15.2	15.6	95.7	19.8	21.2	PASS
136	5680	14.1	15.1	15.5	93.5	19.7	21.2	PASS
140	5700	12.8	13.8	14.0	68.2	18.3	21.2	PASS

**NOTE:**

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain =  $4\text{dBi} + 10\log(3) = 8.77\text{dBi} > 6\text{dBi}$ , so the conducted power limit shall be reduced to  $24 - (8.77 - 6) = 21.2\text{dBm}$ .

##### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.1	14.8	15.2	89.0	19.5	24.0	PASS
60	5300	14.0	15.0	15.3	90.6	19.6	24.0	PASS
64	5320	13.9	15.1	15	88.5	19.5	24.0	PASS
100	5500	14.2	14.8	15.1	88.9	19.5	24.0	PASS
116	5580	14.1	14.9	15	88.2	19.5	24.0	PASS
136	5680	14.2	15.0	15.1	90.3	19.6	24.0	PASS
140	5700	12.7	13.8	14.0	67.7	18.3	24.0	PASS



802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	14.1	14.9	15.2	89.7	19.5	24.0	PASS
62	5310	14.0	14.8	15.1	87.7	19.4	24.0	PASS
102	5510	10.6	11.6	11.5	40.1	16.0	24.0	PASS
110	5550	14.1	15.0	15.1	89.7	19.5	24.0	PASS



#### 4.3.11 TEST RESULTS (C1)

##### POWER OUTPUT: 802.11a

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.3	15.3	15.8	98.8	19.9	23.2	PASS
60	5300	14.2	15.2	15.8	97.4	19.9	23.2	PASS
64	5320	14.3	15.1	15.6	95.6	19.8	23.2	PASS
100	5500	14.1	15.0	15.5	92.8	19.7	23.2	PASS
116	5580	14.2	15.1	15.6	95.0	19.8	23.2	PASS
136	5680	14.1	15.2	15.5	94.3	19.7	23.2	PASS
140	5700	14.3	15.2	15.5	95.5	19.8	23.2	PASS

**NOTE:**

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain = 2dBi + 10log(3)=6.77dBi > 6dBi, so the conducted power limit shall be reduced to 24-(6.77-6)=23.2dBm.

##### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.0	14.8	15.2	88.4	19.5	23.2	PASS
60	5300	14.0	15.1	15.2	90.6	19.6	23.2	PASS
64	5320	13.8	15.0	15.1	88.0	19.4	23.2	PASS
100	5500	14.0	14.7	15.1	87.0	19.4	23.2	PASS
116	5580	14.1	14.7	15.0	86.8	19.4	23.2	PASS
136	5680	14.1	14.8	15.3	89.8	19.5	23.2	PASS
140	5700	14.0	14.8	15.0	86.9	19.4	23.2	PASS

**NOTE:**

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain = 2dBi + 10log(3)=6.77dBi > 6dBi, so the conducted power limit shall be reduced to 24-(6.77-6)=23.2dBm.



**802.11n (40MHz)**

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	14.0	14.8	15.2	88.4	19.5	23.2	PASS
62	5310	12.3	13.5	13.6	62.3	17.9	23.2	PASS
102	5510	11.0	11.9	12.0	43.9	16.4	23.2	PASS
110	5550	14.1	14.9	15.2	89.7	19.5	23.2	PASS

**NOTE:**

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain =  $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$ , so the conducted power limit shall be reduced to  $24 - (6.77 - 6) = 23.2\text{dBm}$ .

### 4.3.12 TEST RESULTS (C2)

#### POWER OUTPUT: 802.11a

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.3	15.4	15.9	<b>100.5</b>	20.0	23.2	PASS
60	5300	14.4	15.3	15.8	99.4	20.0	23.2	PASS
64	5320	14.5	15.2	15.5	96.8	19.9	23.2	PASS
100	5500	14.3	15.1	15.6	95.6	19.8	23.2	PASS
116	5580	14.2	15.2	15.6	95.7	19.8	23.2	PASS
136	5680	14.1	15.1	15.5	93.5	19.7	23.2	PASS
140	5700	14.3	15.3	15.6	<b>97.1</b>	19.9	23.2	PASS

**NOTE:**

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain = 2dBi + 10log(3)=6.77dBi > 6dBi, so the conducted power limit shall be reduced to 24-(6.77-6)=23.2dBm.

#### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.1	14.8	15.2	89.0	19.5	24.0	PASS
60	5300	14.0	15.0	15.3	90.6	19.6	24.0	PASS
64	5320	13.9	15.1	15.0	88.5	19.5	24.0	PASS
100	5500	14.2	14.8	15.1	88.9	19.5	24.0	PASS
116	5580	14.1	14.9	15.0	88.2	19.5	24.0	PASS
136	5680	14.2	15.0	15.1	90.3	19.6	24.0	PASS
140	5700	14.1	14.9	15.0	88.2	19.5	24.0	PASS



**A D T**

**802.11n (40MHz)**

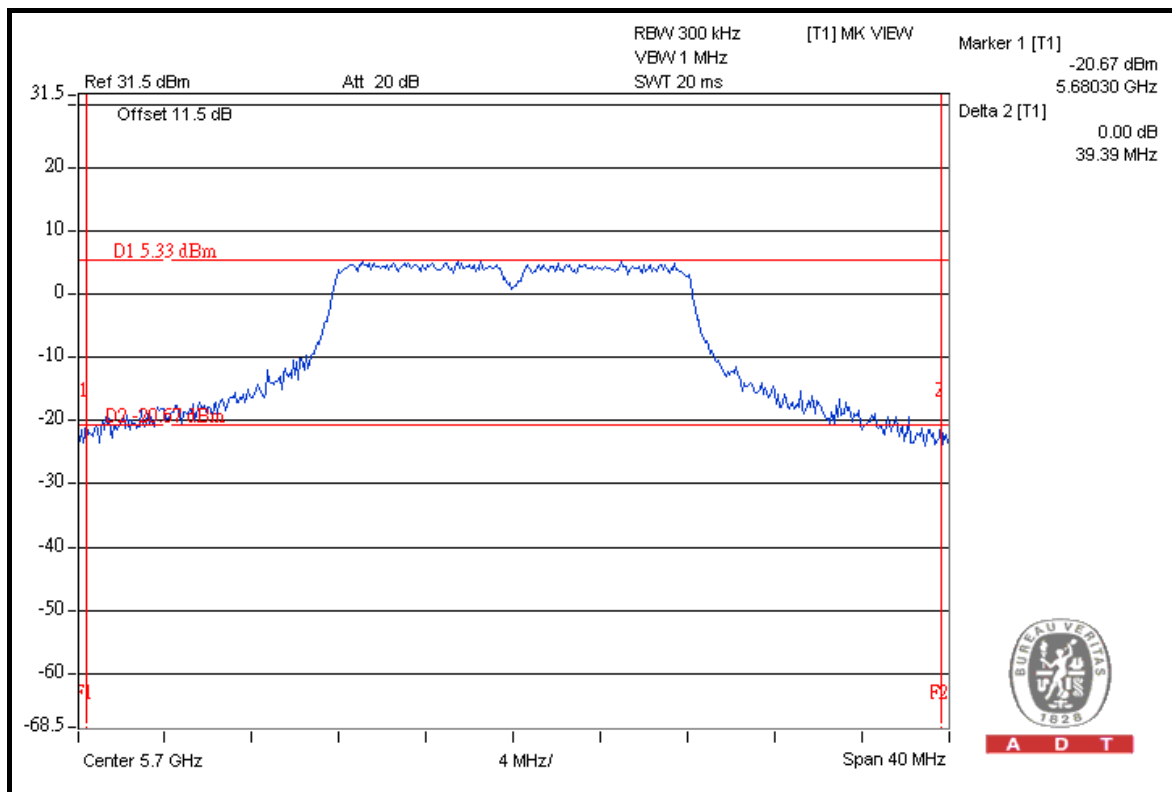
CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	14.1	14.9	15.2	89.7	19.5	24.0	PASS
62	5310	12.5	13.3	13.5	61.5	17.9	24.0	PASS
102	5510	11.0	11.9	12.1	44.3	16.5	24.0	PASS
110	5550	14.1	15.0	15.1	89.7	19.5	24.0	PASS

### 4.3.13 TEST RESULTS (A1)

#### 26dB OCCUPIED BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	25.70	26.20	24.31	PASS
60	5300	26.10	26.81	24.53	PASS
64	5320	25.47	27.24	24.10	PASS
100	5500	25.80	29.47	28.13	PASS
116	5580	29.33	35.94	33.48	PASS
136	5680	32.18	37.71	33.62	PASS
140	5700	31.28	39.39	30.01	PASS

#### FOR CHAIN 1: CH 140



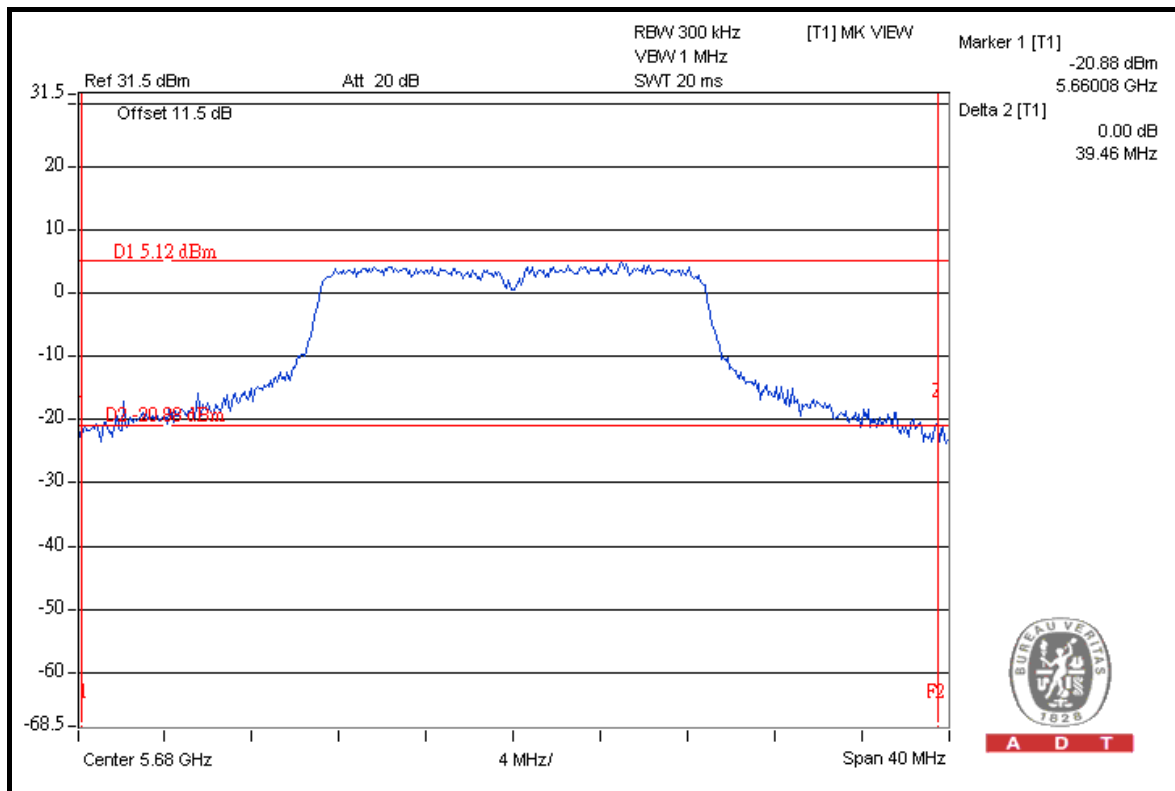


A D T

### 802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	26.59	27.52	26.84	PASS
60	5300	26.68	26.04	26.53	PASS
64	5320	27.06	25.96	27.63	PASS
100	5500	26.87	29.48	35.29	PASS
116	5580	31.22	38.01	38.73	PASS
136	5680	36.34	39.05	39.46	PASS
140	5700	30.55	35.59	35.53	PASS

### FOR CHAIN 2: CH 136



A D T

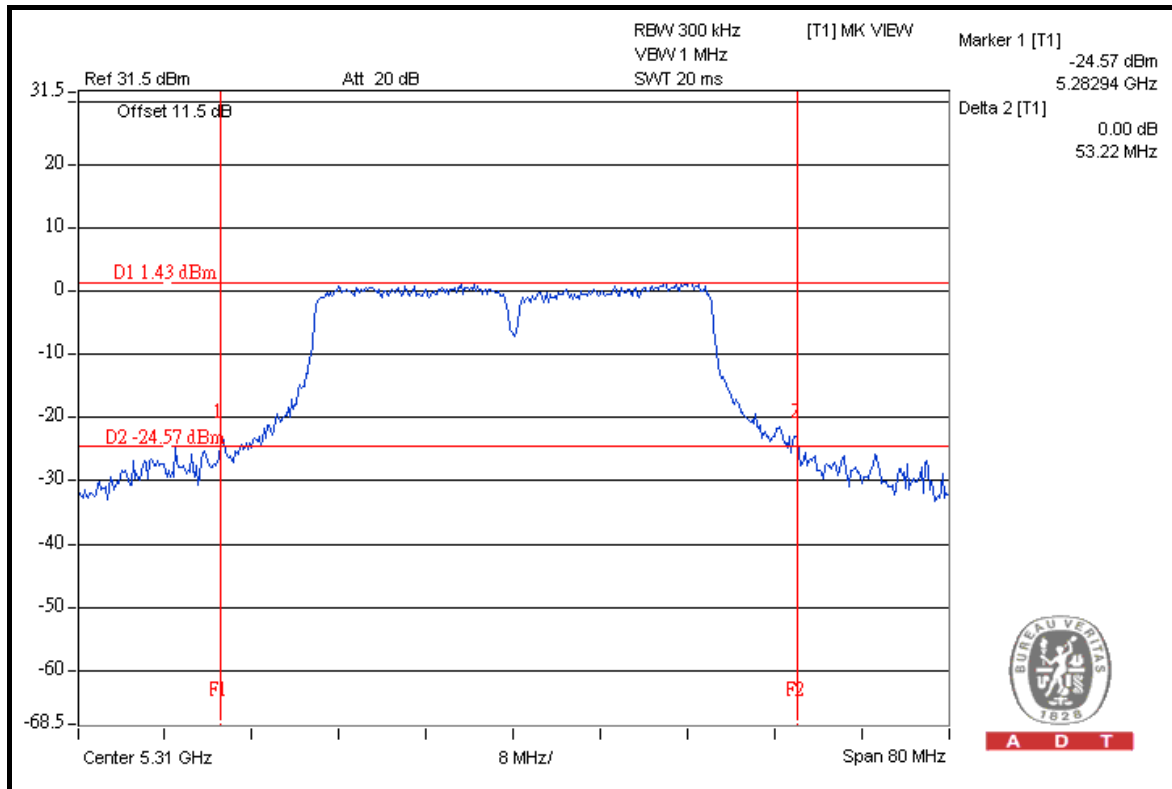


A D T

### 802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	52.67	53.13	52.90	PASS
62	5310	51.23	53.11	53.22	PASS
102	5510	53.17	52.92	53.02	PASS
110	5550	52.57	52.69	52.92	PASS

### FOR CHAIN 2: CH 62



A D T



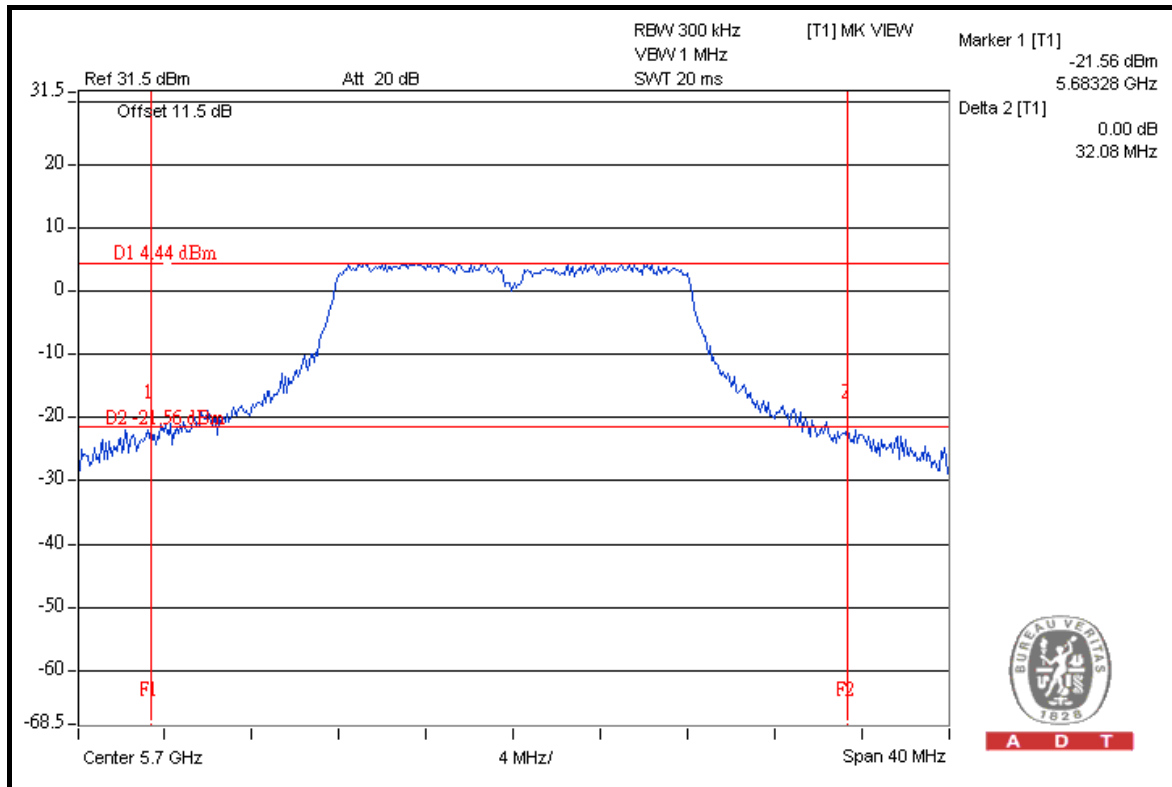
A D T

### 4.3.14 TEST RESULTS (A2)

#### 26dB OCCUPIED BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	25.92	26.06	25.55	PASS
60	5300	25.33	25.94	24.80	PASS
64	5320	29.01	27.29	25.66	PASS
100	5500	26.17	26.73	28.90	PASS
116	5580	28.74	29.24	28.74	PASS
136	5680	28.17	29.74	29.93	PASS
140	5700	32.08	31.00	29.00	PASS

#### FOR CHAIN 0: CH 140





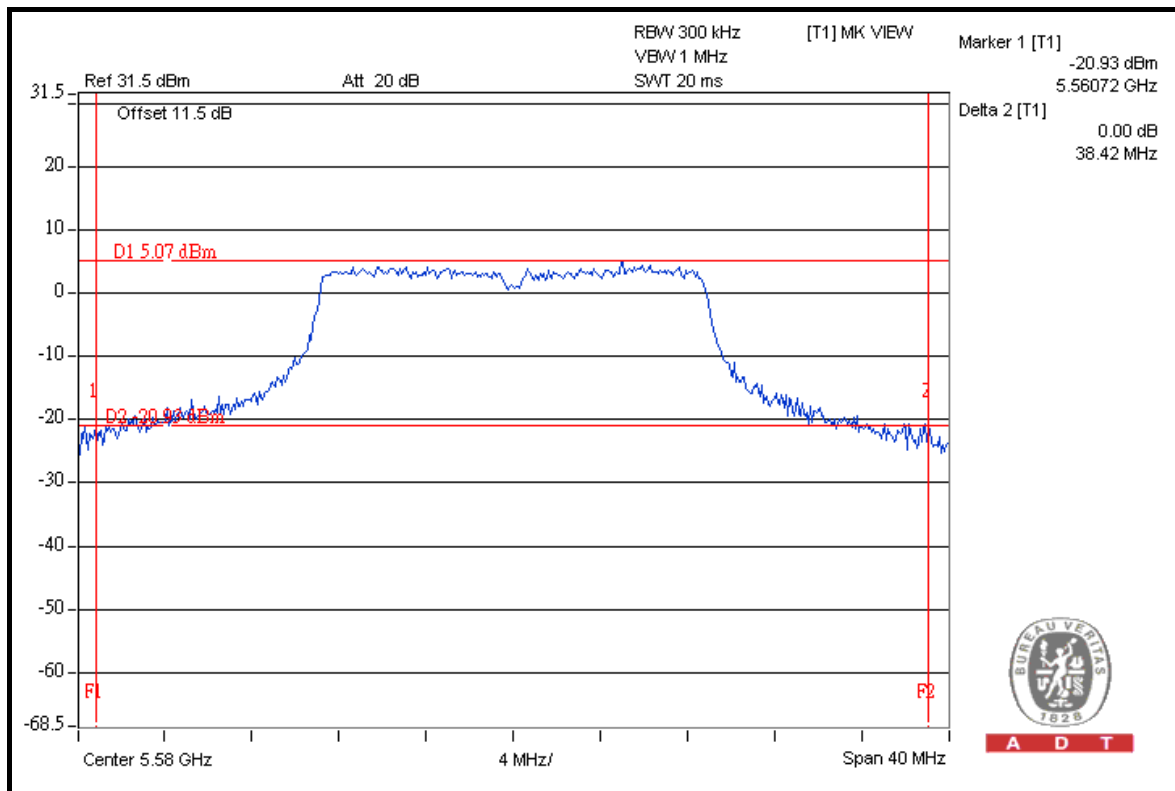


A D T

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	26.92	28.42	26.51	PASS
60	5300	29.53	31.25	27.99	PASS
64	5320	28.74	28.91	30.43	PASS
100	5500	30.65	30.64	36.85	PASS
116	5580	32.94	34.58	38.42	PASS
136	5680	37.04	38.16	37.67	PASS
140	5700	32.89	37.95	33.15	PASS

FOR CHAIN 2: CH 116



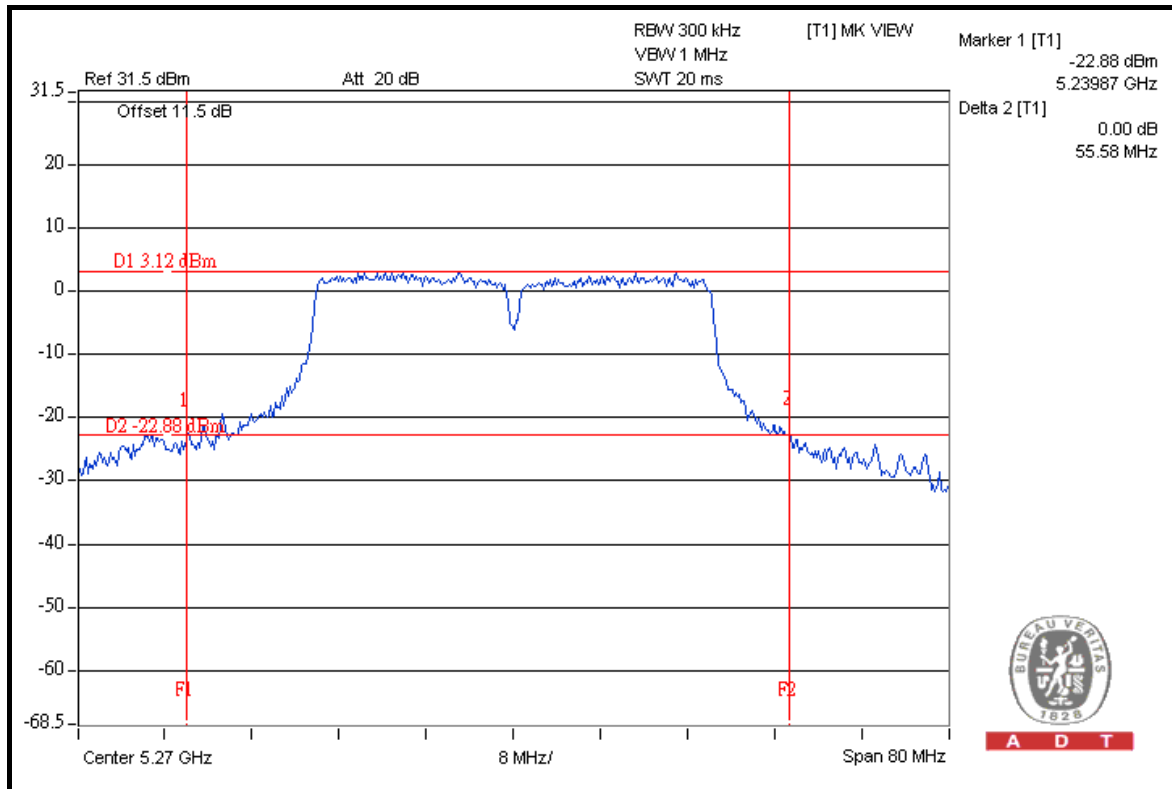


A D T

### 802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	50.50	55.58	49.57	PASS
62	5310	50.00	51.83	49.77	PASS
102	5510	50.45	52.45	53.02	PASS
110	5550	49.49	48.84	50.59	PASS

### FOR CHAIN 1: CH 54



A D T



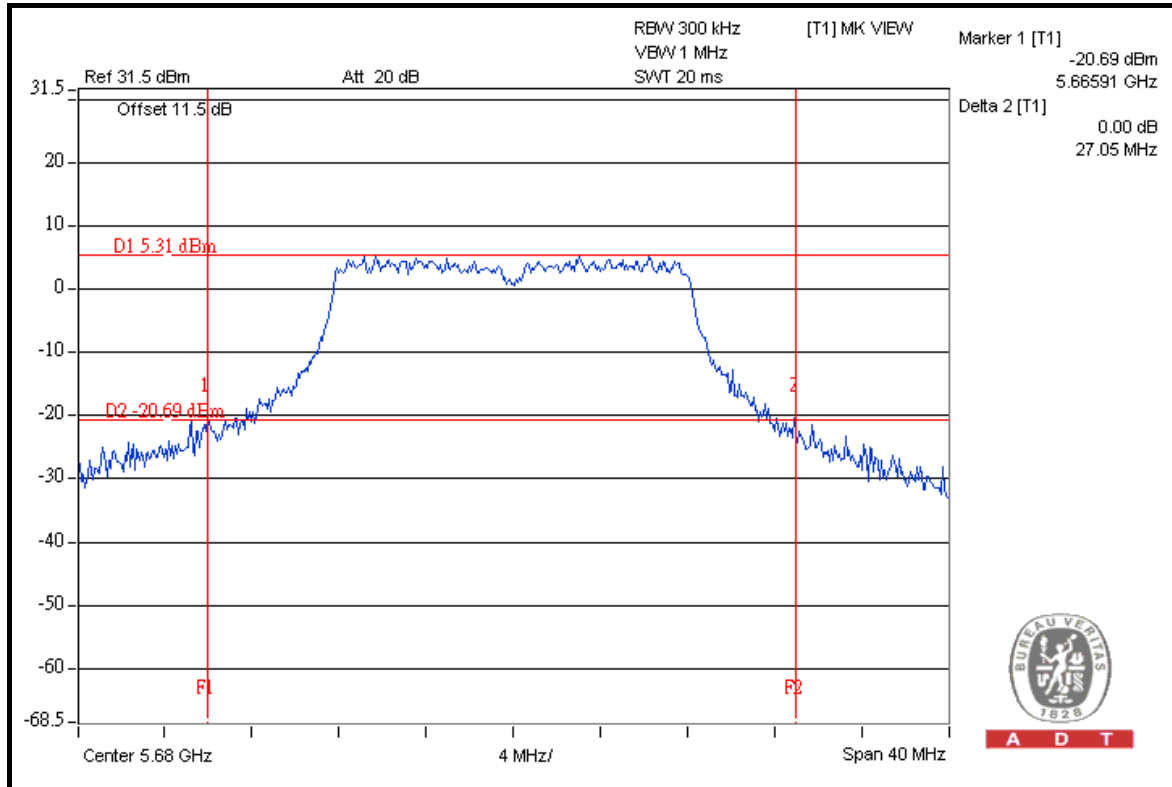
A D T

### 4.3.15 TEST RESULTS (B1)

#### 26dB OCCUPIED BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	24.72	24.23	24.40	PASS
60	5300	25.08	25.07	24.55	PASS
64	5320	25.07	25.48	24.47	PASS
100	5500	24.31	24.53	24.44	PASS
116	5580	24.40	25.57	24.41	PASS
136	5680	26.69	25.94	27.05	PASS
140	5700	25.51	25.47	25.63	PASS

#### FOR CHAIN 2: CH 136



A D T

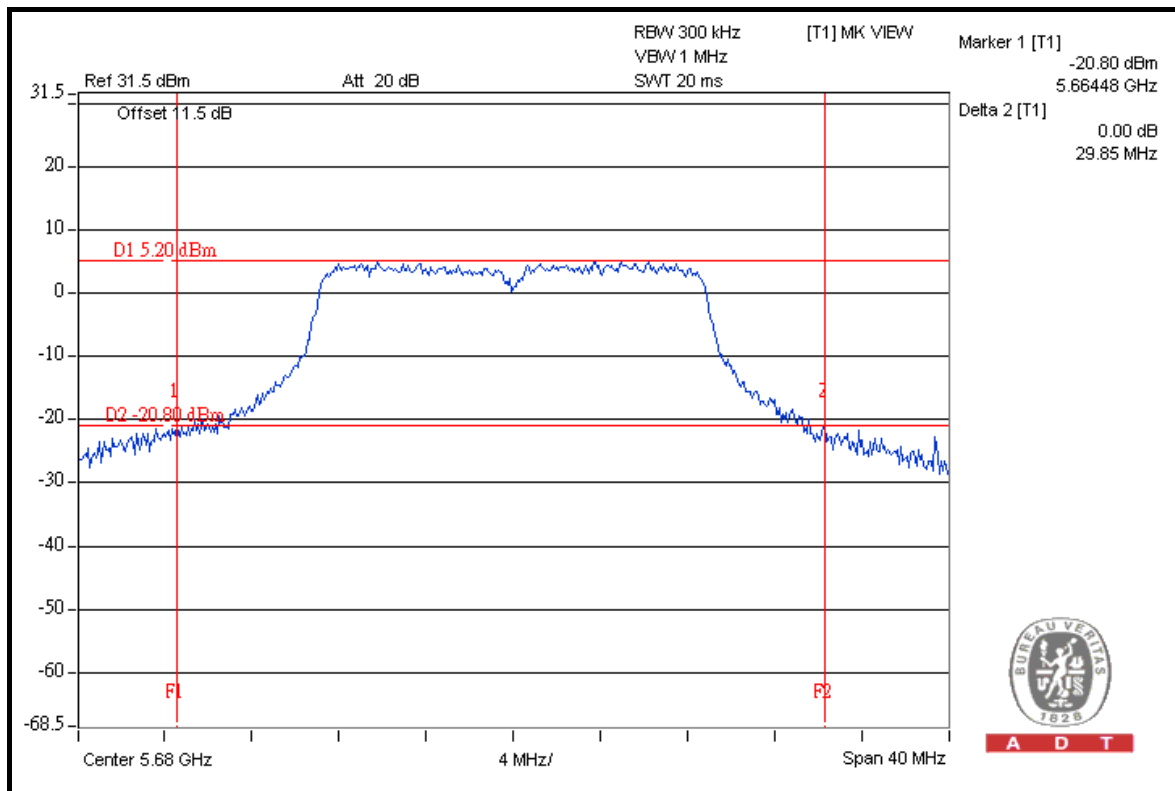


A D T

### 802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	25.53	26.01	25.23	PASS
60	5300	26.29	26.29	25.69	PASS
64	5320	25.65	26.62	25.55	PASS
100	5500	25.28	26.97	26.29	PASS
116	5580	26.33	26.89	29.38	PASS
136	5680	26.78	27.26	29.85	PASS
140	5700	24.72	25.18	25.97	PASS

### FOR CHAIN 2: CH 136



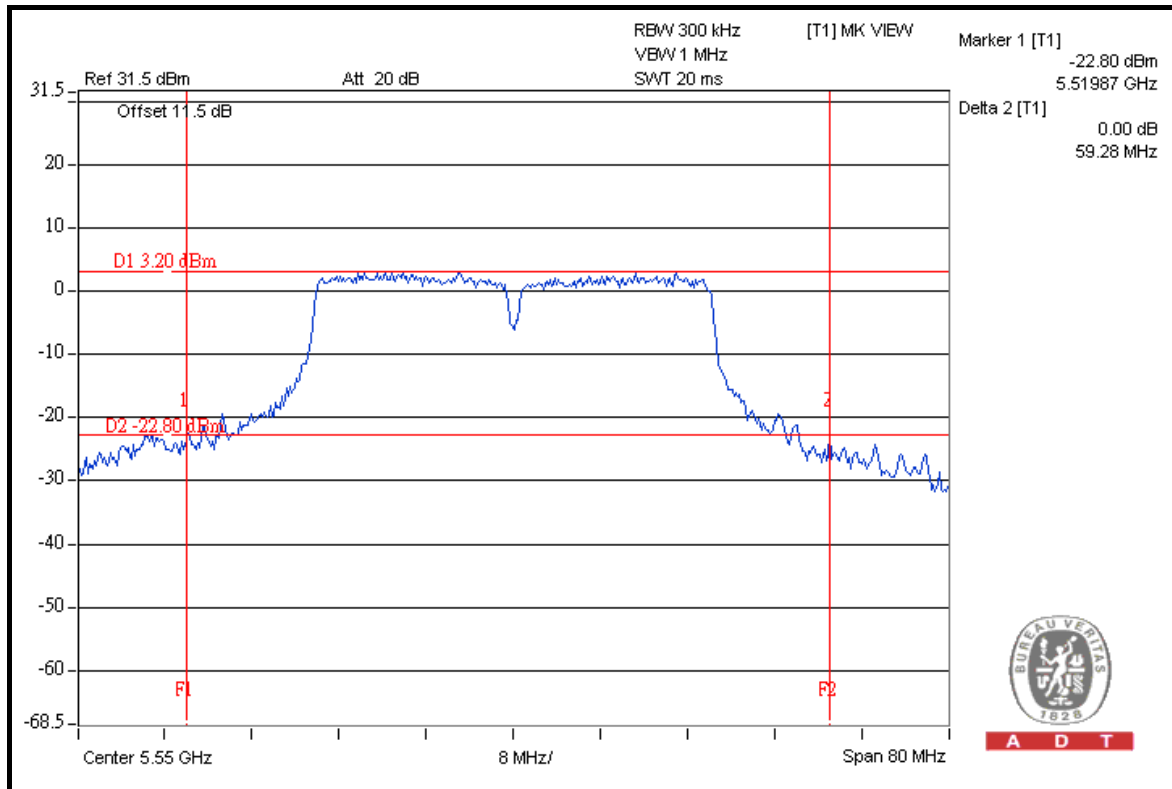


A D T

### 802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	50.08	49.57	51.74	PASS
62	5310	50.10	50.89	48.60	PASS
102	5510	50.00	48.53	50.14	PASS
110	5550	53.11	59.16	59.28	PASS

### FOR CHAIN 2: CH 110



A D T



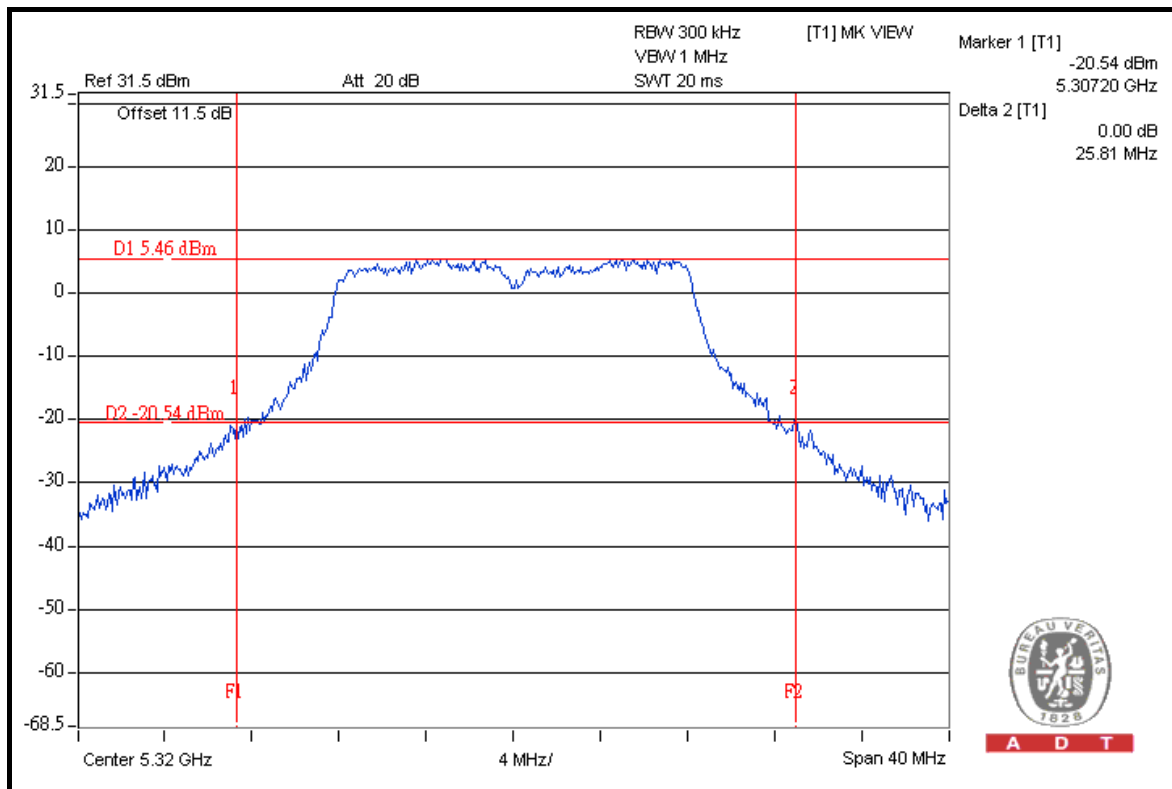
A D T

### 4.3.16 TEST RESULTS (B2)

#### 26dB OCCUPIED BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	24.48	24.97	24.70	PASS
60	5300	24.23	24.19	24.61	PASS
64	5320	25.81	24.66	24.44	PASS
100	5500	25.17	24.23	23.76	PASS
116	5580	24.58	24.17	24.39	PASS
136	5680	25.76	24.59	24.77	PASS
140	5700	24.93	25.50	24.39	PASS

#### FOR CHAIN 0: CH 64



A D T

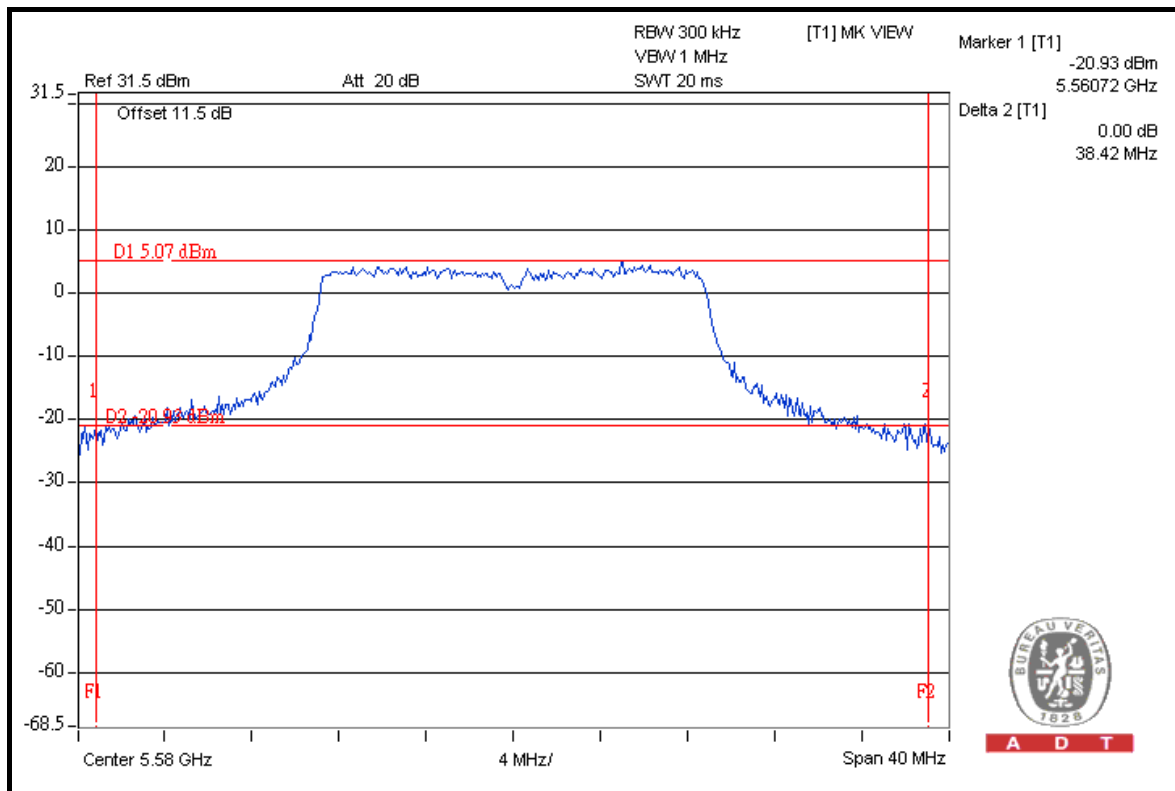


A D T

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	26.92	28.42	26.51	PASS
60	5300	29.53	31.25	27.99	PASS
64	5320	28.74	28.91	30.43	PASS
100	5500	30.65	30.64	36.85	PASS
116	5580	32.94	34.58	38.42	PASS
136	5680	37.04	38.16	37.67	PASS
140	5700	26.97	28.04	27.38	PASS

FOR CHAIN 2: CH 116



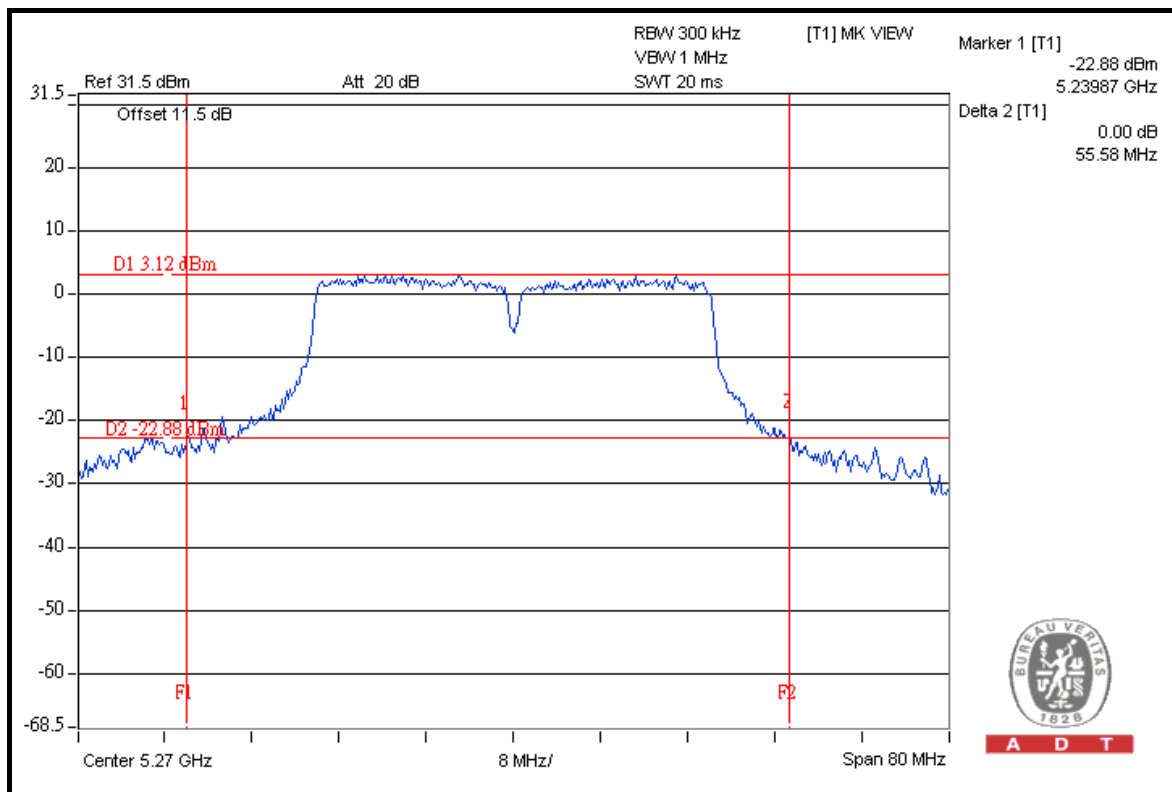


A D T

### 802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	50.50	55.58	49.57	PASS
62	5310	50.00	51.83	49.77	PASS
102	5510	47.69	49.59	48.83	PASS
110	5550	49.49	48.84	50.59	PASS

### FOR CHAIN 1: CH 54







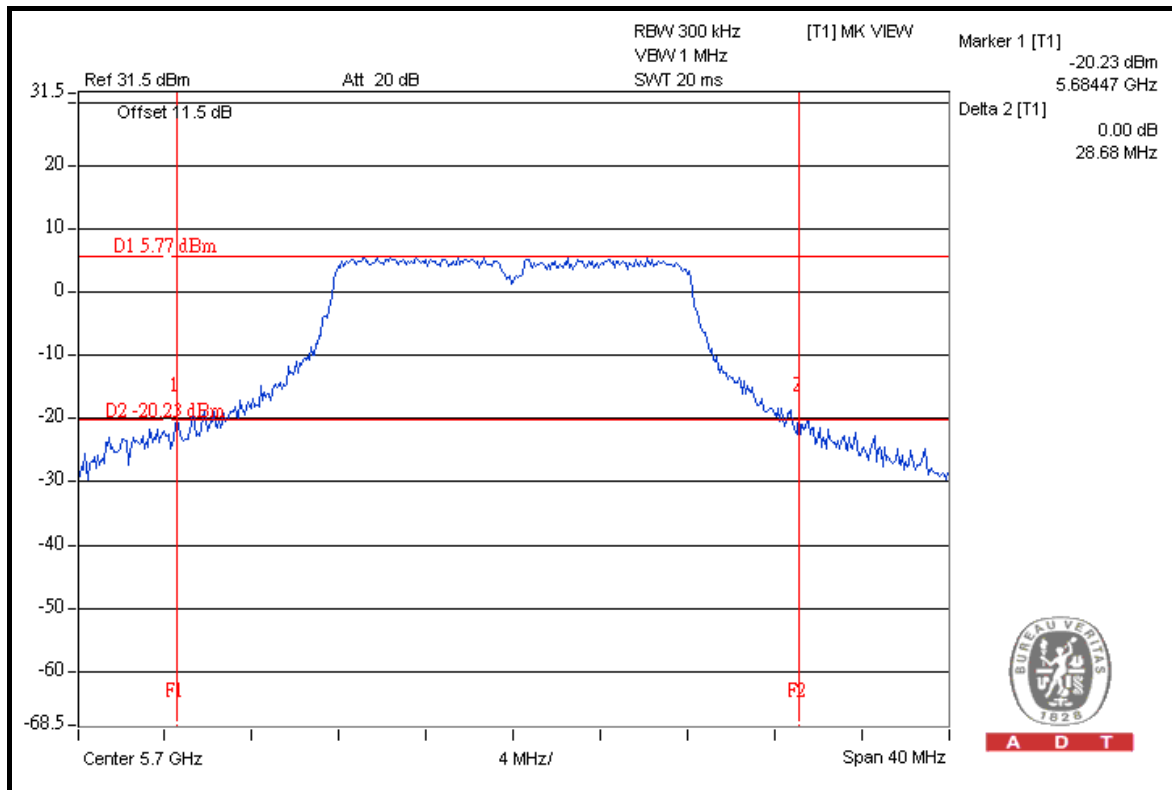
A D T

### 4.3.17 TEST RESULTS (C1)

#### 26dB OCCUPIED BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	24.72	24.23	24.40	PASS
60	5300	25.08	25.07	24.55	PASS
64	5320	25.07	25.48	24.47	PASS
100	5500	24.31	24.53	24.44	PASS
116	5580	24.40	25.57	24.41	PASS
136	5680	26.69	25.94	27.05	PASS
140	5700	28.68	27.05	25.29	PASS

#### FOR CHAIN 0: CH 140



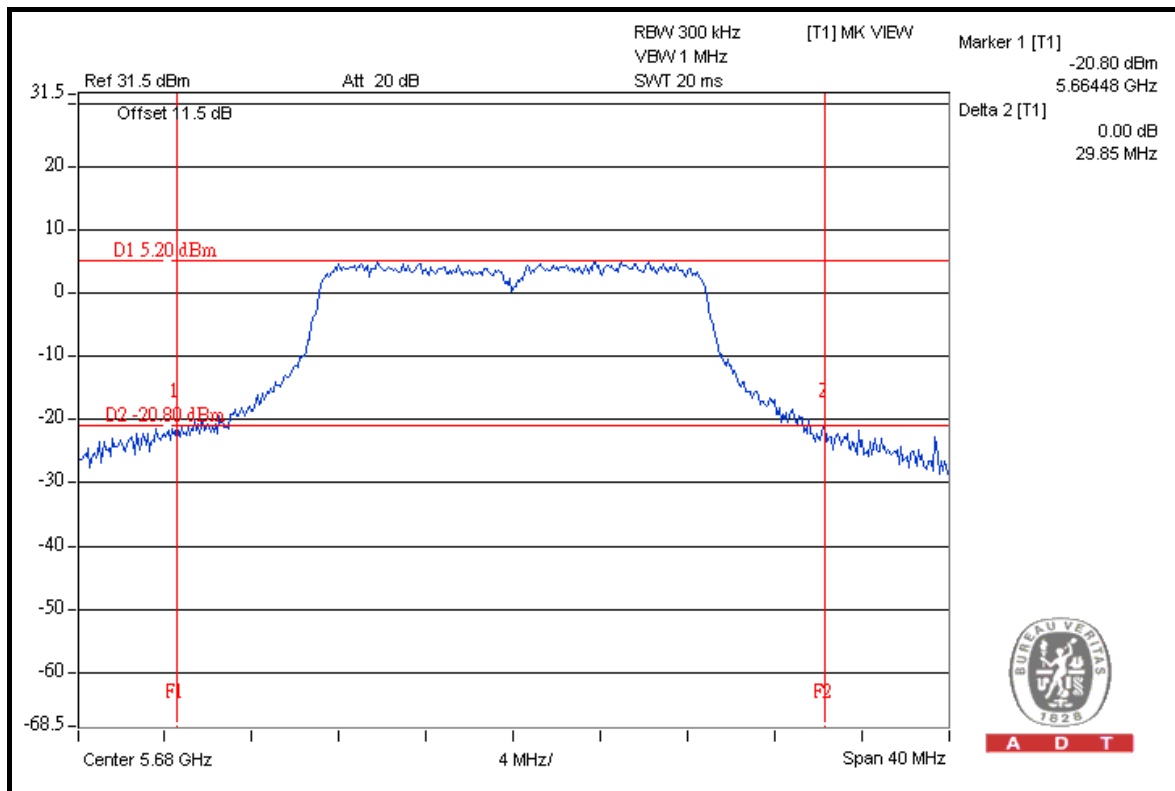


A D T

### 802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	25.53	26.01	25.23	PASS
60	5300	26.29	26.29	25.69	PASS
64	5320	25.65	26.62	25.55	PASS
100	5500	25.28	26.97	26.29	PASS
116	5580	26.33	26.89	29.38	PASS
136	5680	26.78	27.26	29.85	PASS
140	5700	26.98	28.75	28.72	PASS

### FOR CHAIN 2: CH 136



A D T

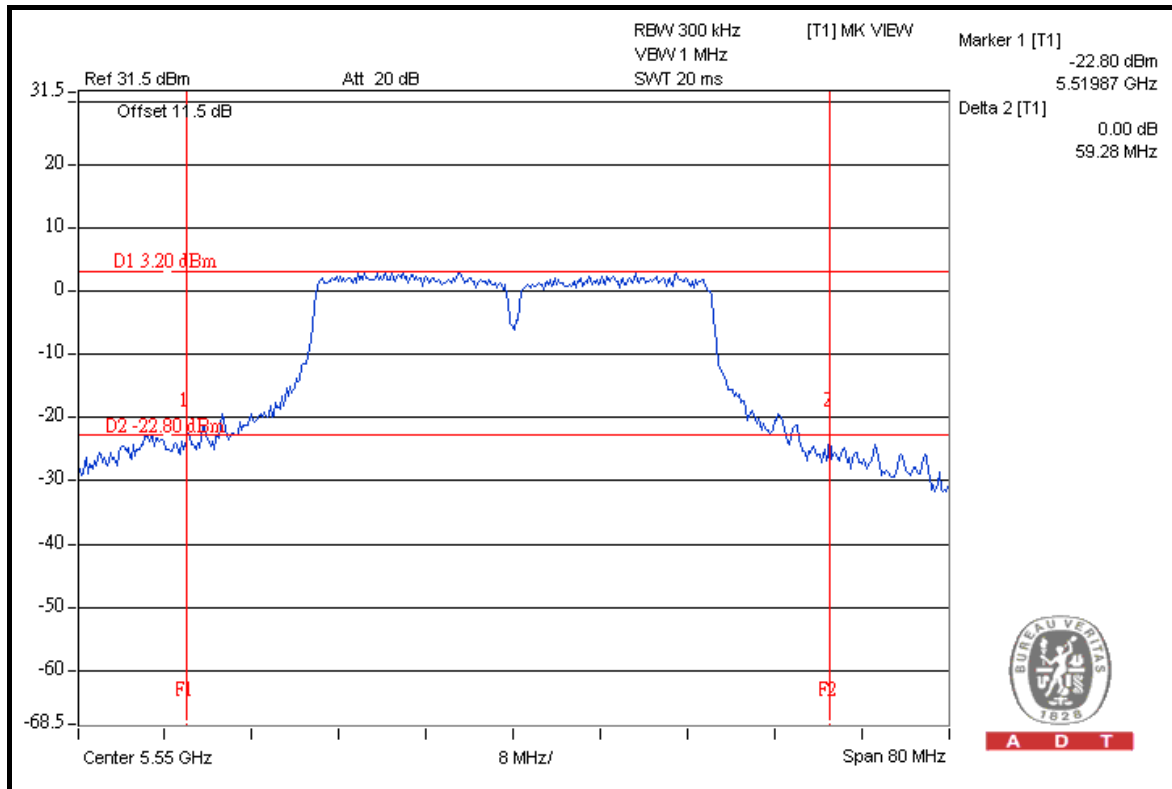


A D T

### 802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	50.08	49.57	51.74	PASS
62	5310	51.23	53.11	53.22	PASS
102	5510	47.87	49.16	47.93	PASS
110	5550	53.11	59.16	59.28	PASS

### FOR CHAIN 2: CH 110





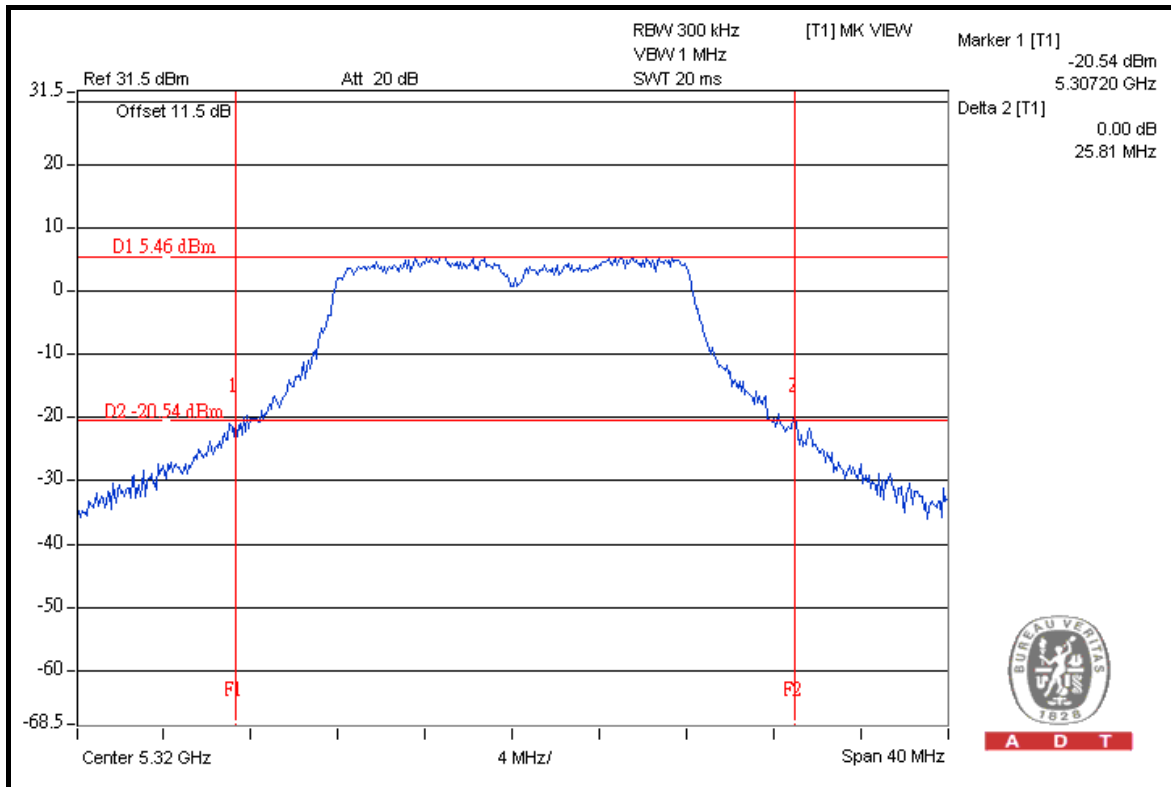
A D T

### 4.3.18 TEST RESULTS (C2)

#### 26dB OCCUPIED BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	24.48	24.97	24.70	PASS
60	5300	24.23	24.19	24.61	PASS
64	5320	25.81	24.66	24.44	PASS
100	5500	25.17	24.23	23.76	PASS
116	5580	24.58	24.17	24.39	PASS
136	5680	25.76	24.59	24.77	PASS
140	5700	25.33	24.88	24.99	PASS

#### FOR CHAIN 0: CH 64



A D T

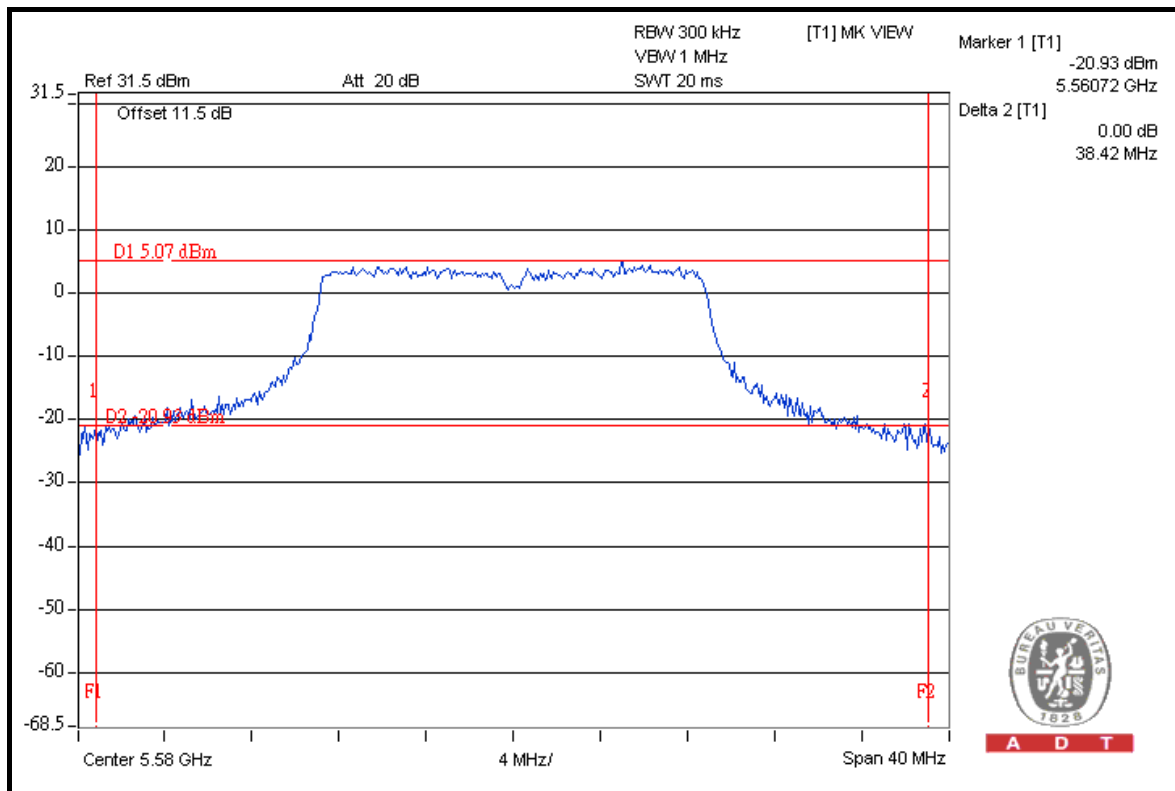


A D T

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	26.92	28.42	26.51	PASS
60	5300	29.53	31.25	27.99	PASS
64	5320	28.74	28.91	30.43	PASS
100	5500	30.65	30.64	36.85	PASS
116	5580	32.94	34.58	38.42	PASS
136	5680	37.04	38.16	37.67	PASS
140	5700	32.89	37.95	33.15	PASS

FOR CHAIN 2: CH 116



A D T

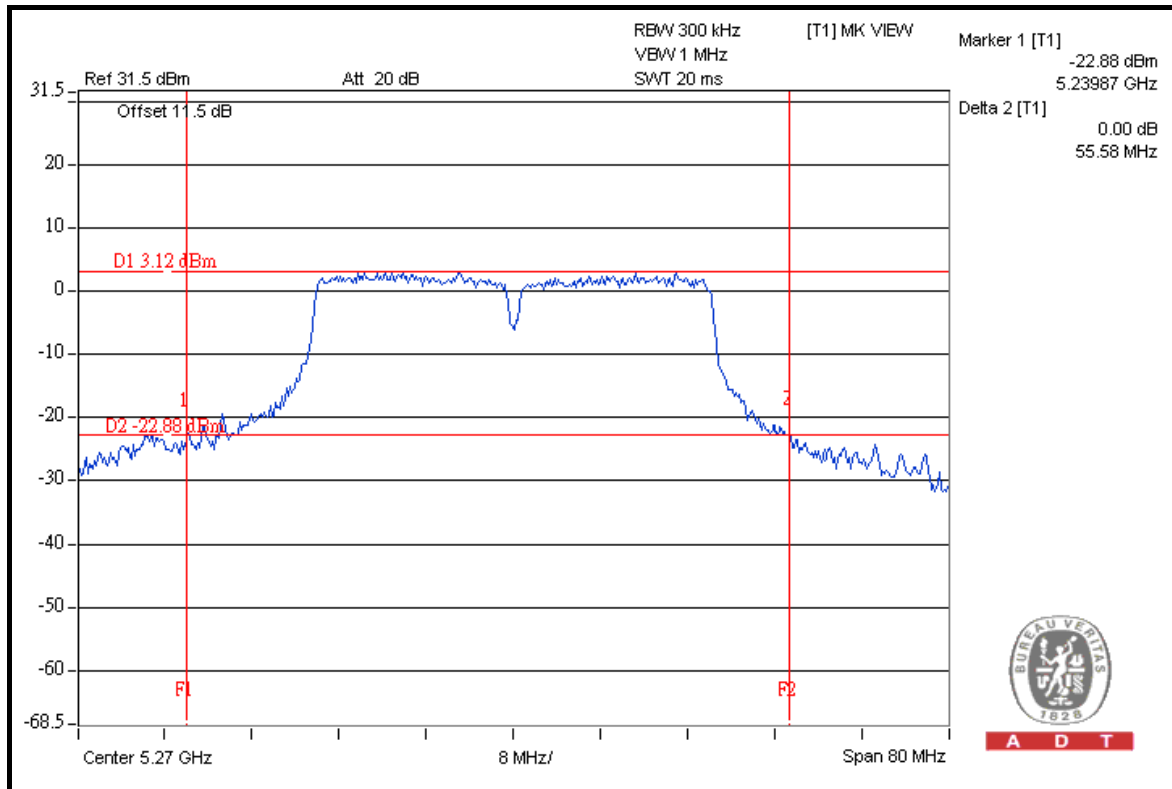


A D T

### 802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	50.50	55.58	49.57	PASS
62	5310	48.31	50.17	49.64	PASS
102	5510	49.38	48.59	48.05	PASS
110	5550	49.49	48.84	50.59	PASS

### FOR CHAIN 1: CH 54



#### 4.4 PEAK POWER EXCURSION MEASUREMENT

##### 4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

FREQUENCY BAND	LIMIT
5.250 ~ 5.350GHz	13dB
5.470 ~ 5.725GHz	13dB

##### 4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSP40	100039	Jan. 11, 2010	Jan. 10, 2011

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

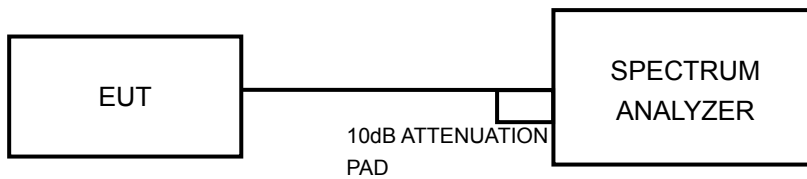
##### 4.4.3 TEST PROCEDURE

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set the spectrum bandwidth span to view the entire spectrum.
- c. Using peak detector and Max-hold function for Trace 1 (RB = 1MHz, VB = 3MHz) and 2 (RB = 1MHz, VB = 300kHz).
- d. The differences between Trace1 and Trace 2 in any 1MHz band at f1 to f2 range were recorded and showed to another trace.

#### 4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4.5 TEST SETUP



#### 4.4.6 EUT OPERATING CONDITIONS

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





A D T

#### 4.4.7 TEST RESULTS (A1)

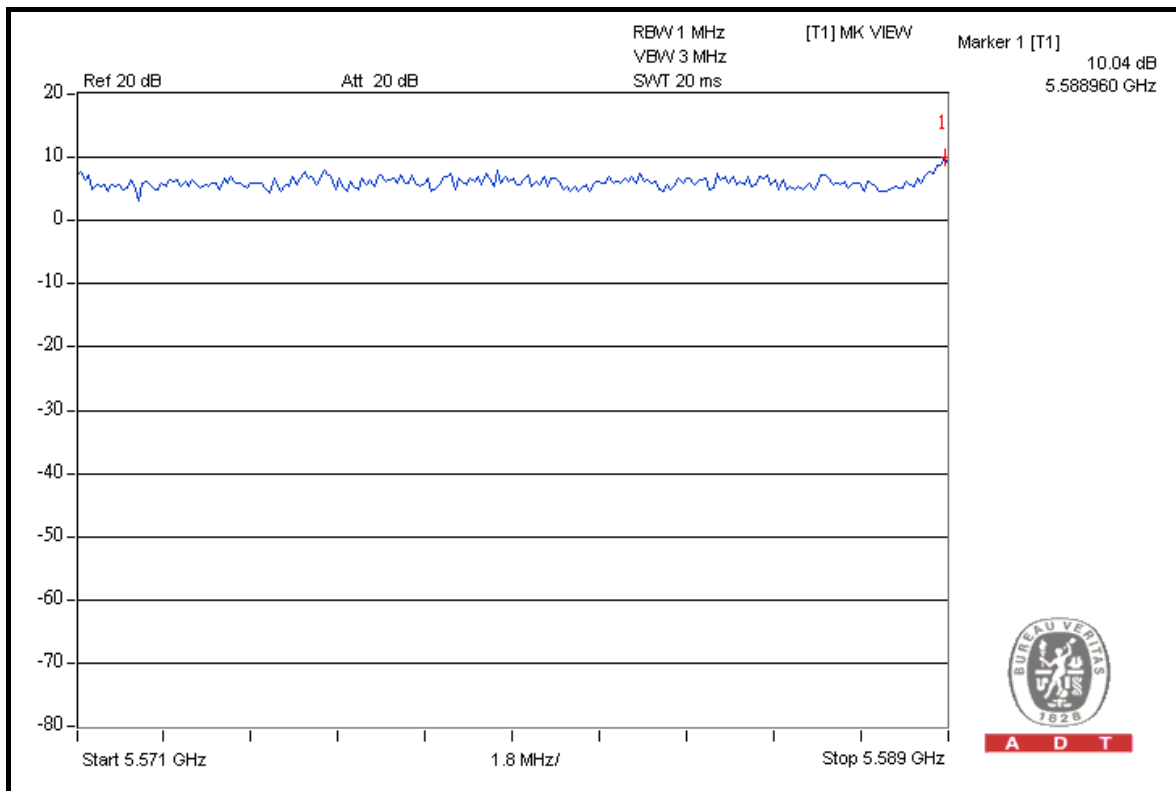
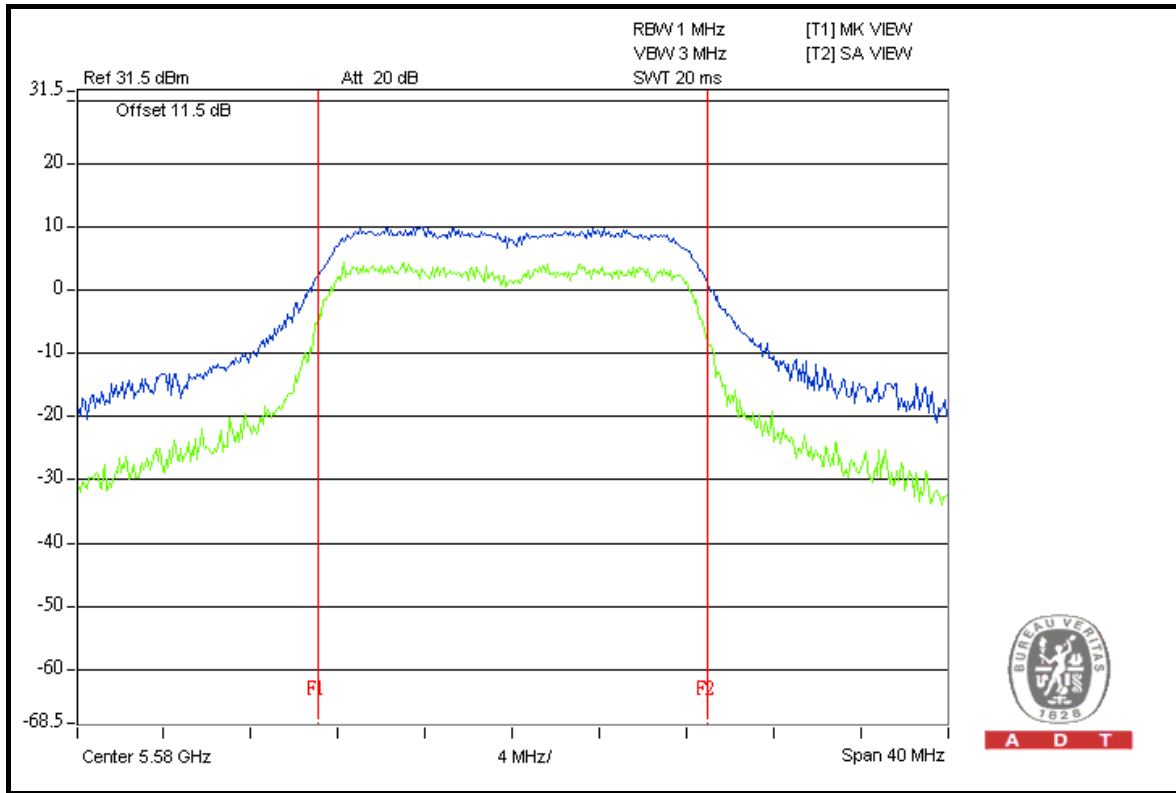
##### 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	9.34	9.29	7.77	13	PASS
60	5300	9.44	9.80	9.19	13	PASS
64	5320	8.92	8.69	8.33	13	PASS
100	5500	8.87	8.65	9.24	13	PASS
116	5580	10.04	9.17	8.81	13	PASS
136	5680	9.14	8.89	8.87	13	PASS
140	5700	9.36	9.42	9.14	13	PASS



A D T

FOR CHAIN 0: CH 116





A D T

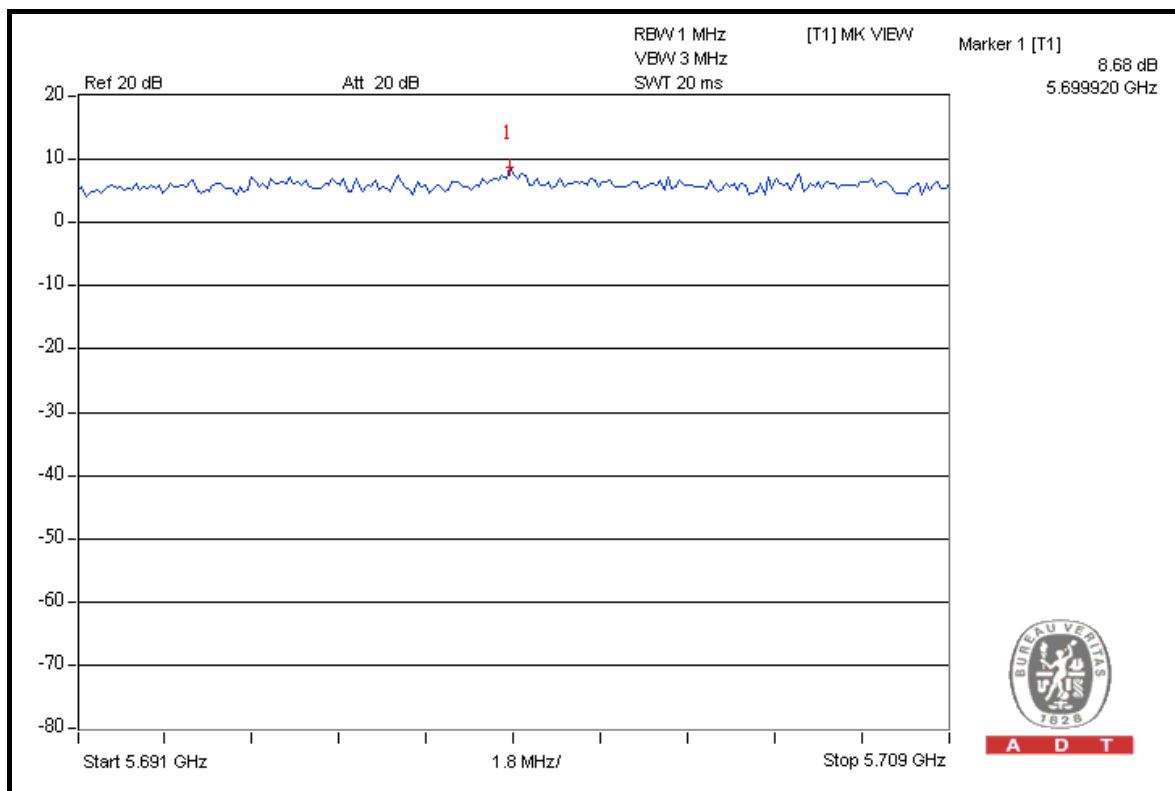
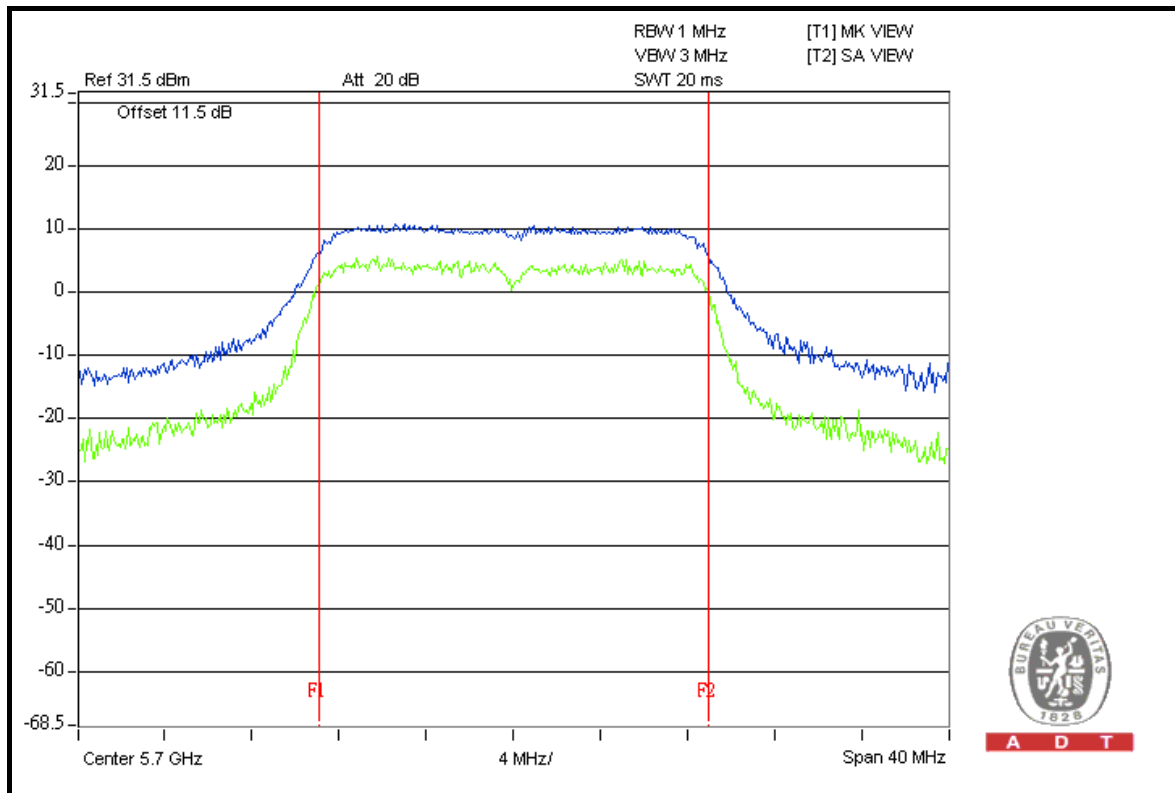
802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	7.17	7.57	8.24	13	PASS
60	5300	7.29	7.41	7.89	13	PASS
64	5320	7.11	7.52	7.99	13	PASS
100	5500	7.11	7.49	7.60	13	PASS
116	5580	7.27	7.00	7.65	13	PASS
136	5680	7.59	7.61	8.00	13	PASS
140	5700	7.55	7.39	8.68	13	PASS



A D T

### FOR CHAIN 2: CH 140





A D T

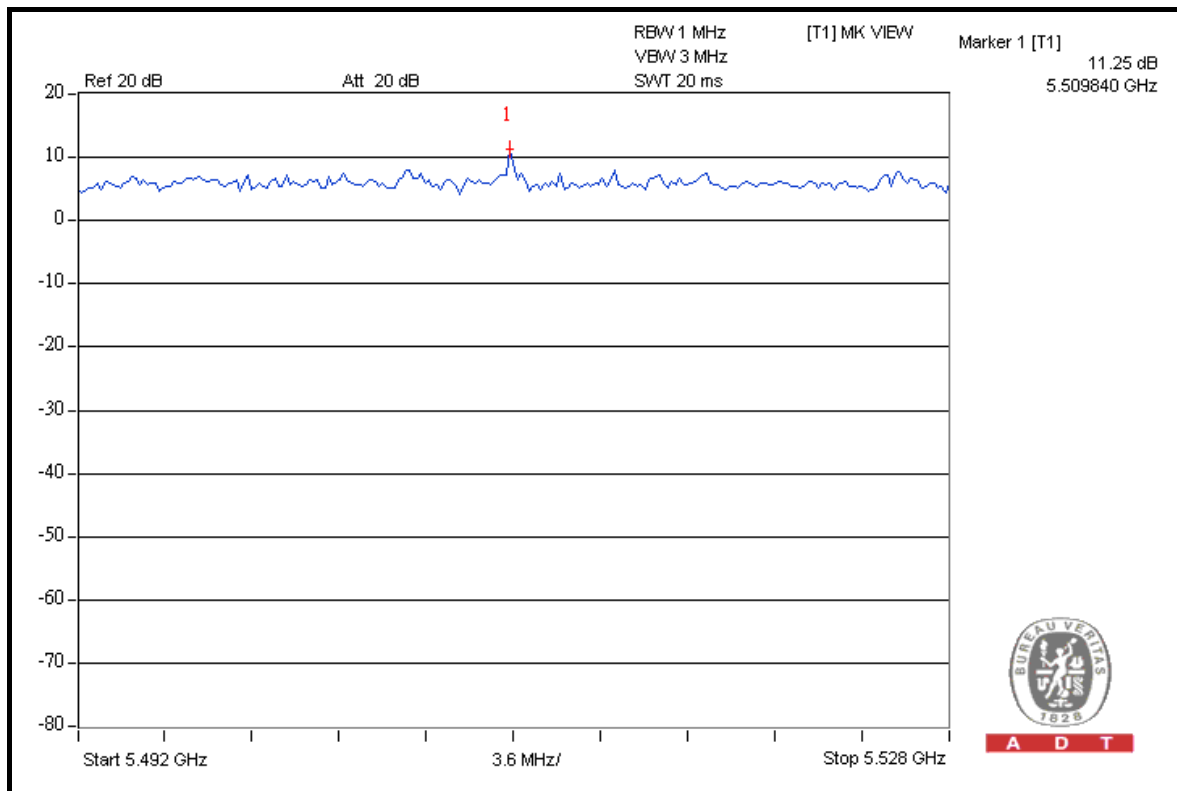
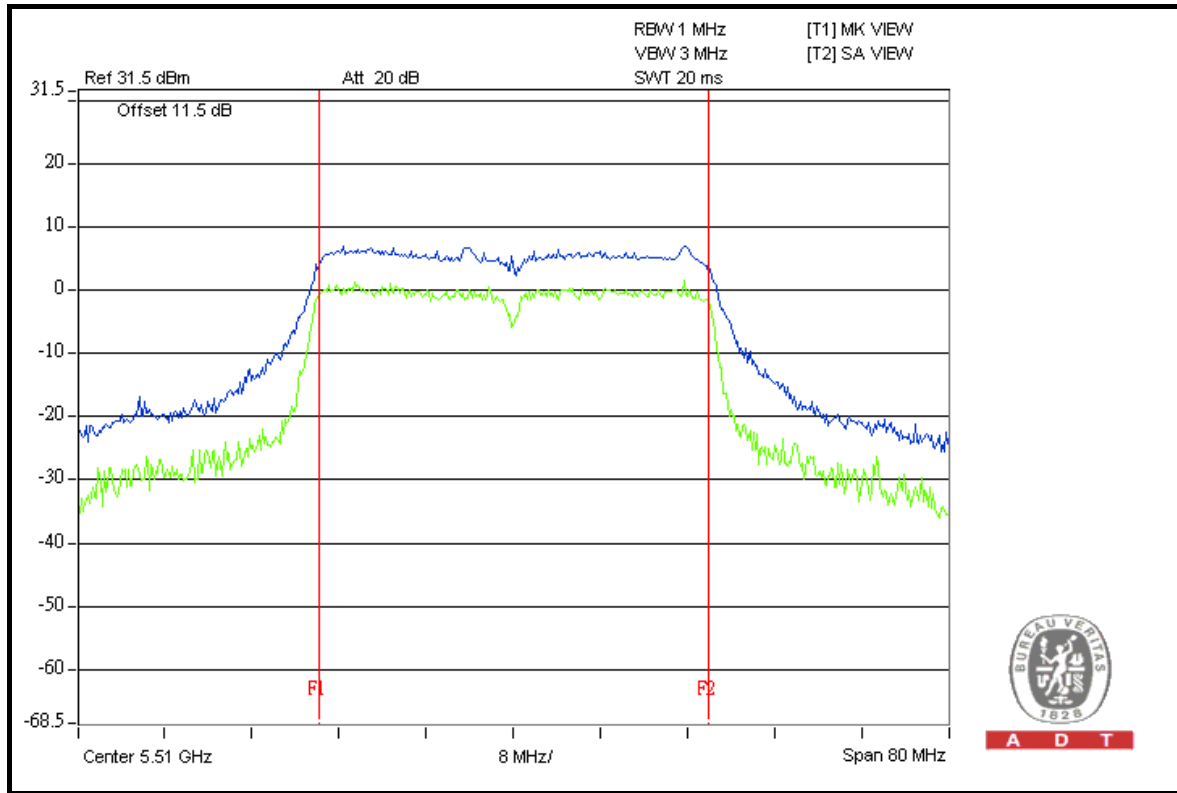
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
54	5270	9.91	11.23	9.26	13	PASS
62	5310	9.73	9.32	8.15	13	PASS
102	5510	11.25	9.44	9.12	13	PASS
110	5550	8.89	9.53	7.97	13	PASS



A D T

### FOR CHAIN 0: CH 102



#### 4.4.8 TEST RESULTS (A2)

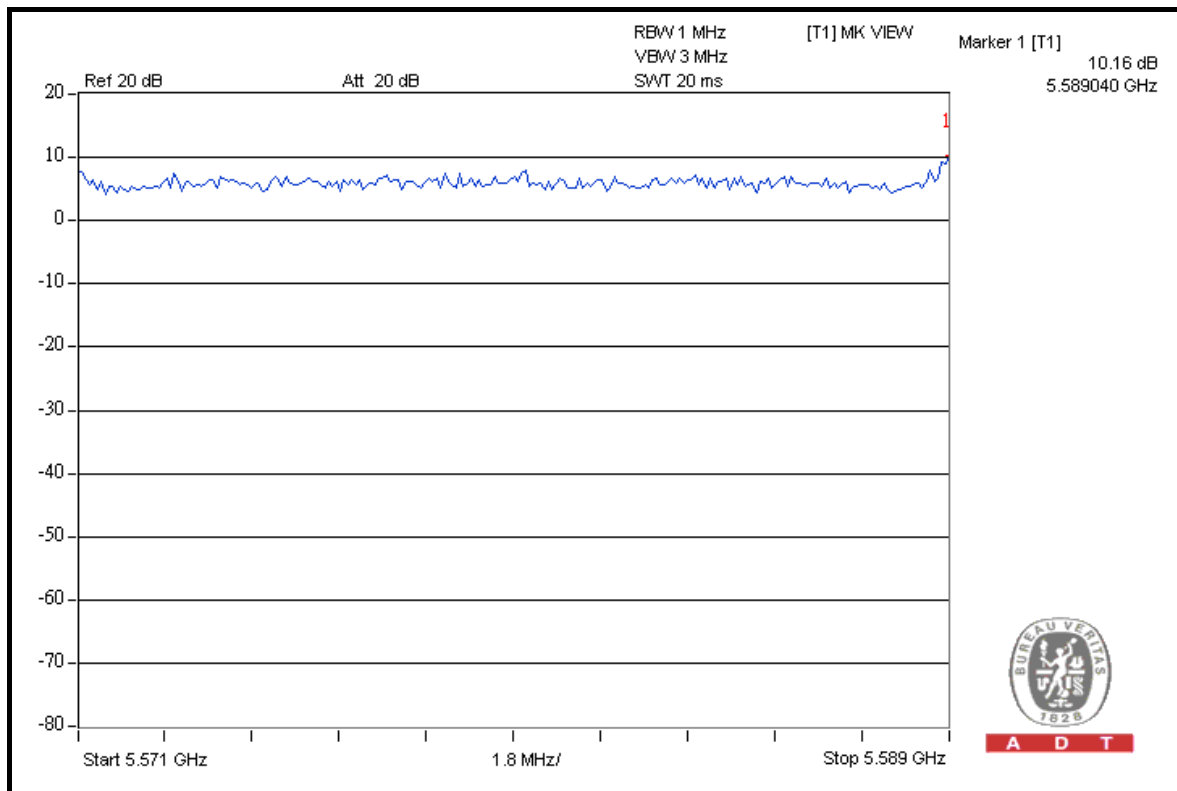
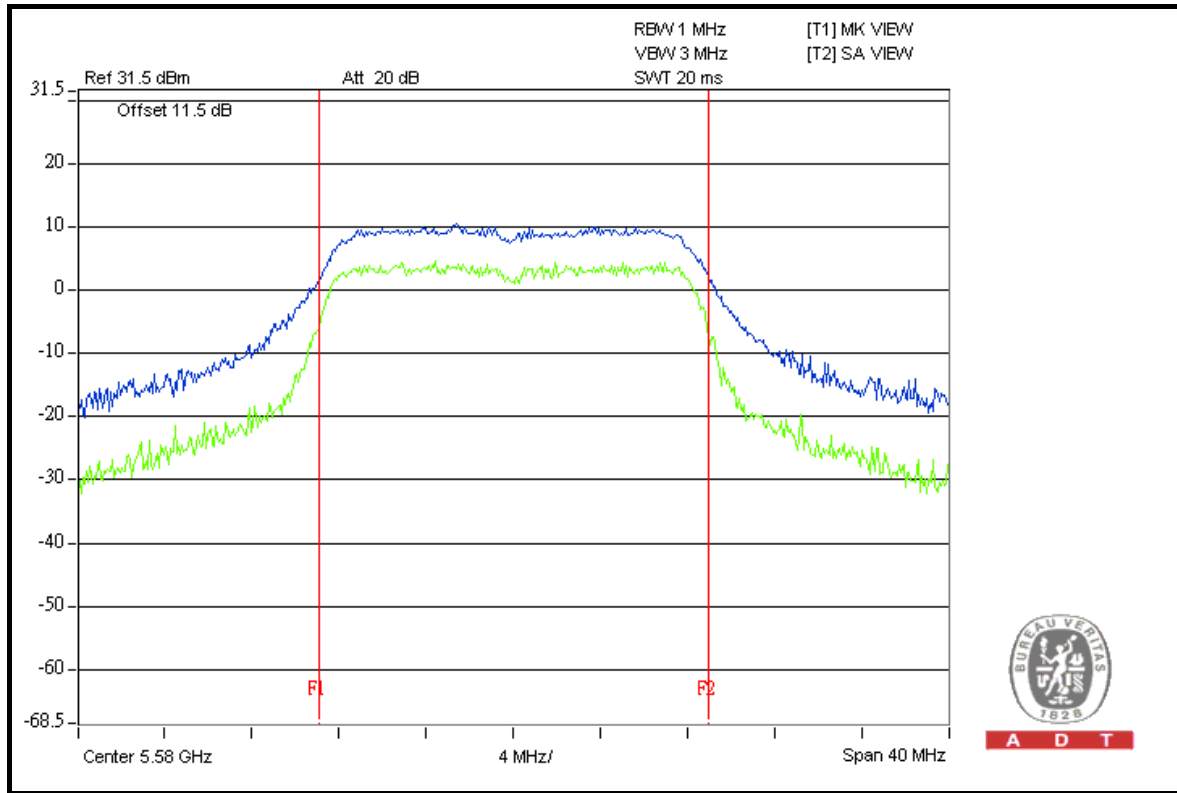
##### 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	10.04	8.99	8.90	13	PASS
60	5300	9.66	8.37	8.49	13	PASS
64	5320	9.72	9.89	8.55	13	PASS
100	5500	8.25	9.03	8.54	13	PASS
116	5580	8.77	10.16	8.06	13	PASS
136	5680	9.27	9.40	8.44	13	PASS
140	5700	9.48	9.80	8.92	13	PASS



A D T

FOR CHAIN 1: CH 116







A D T

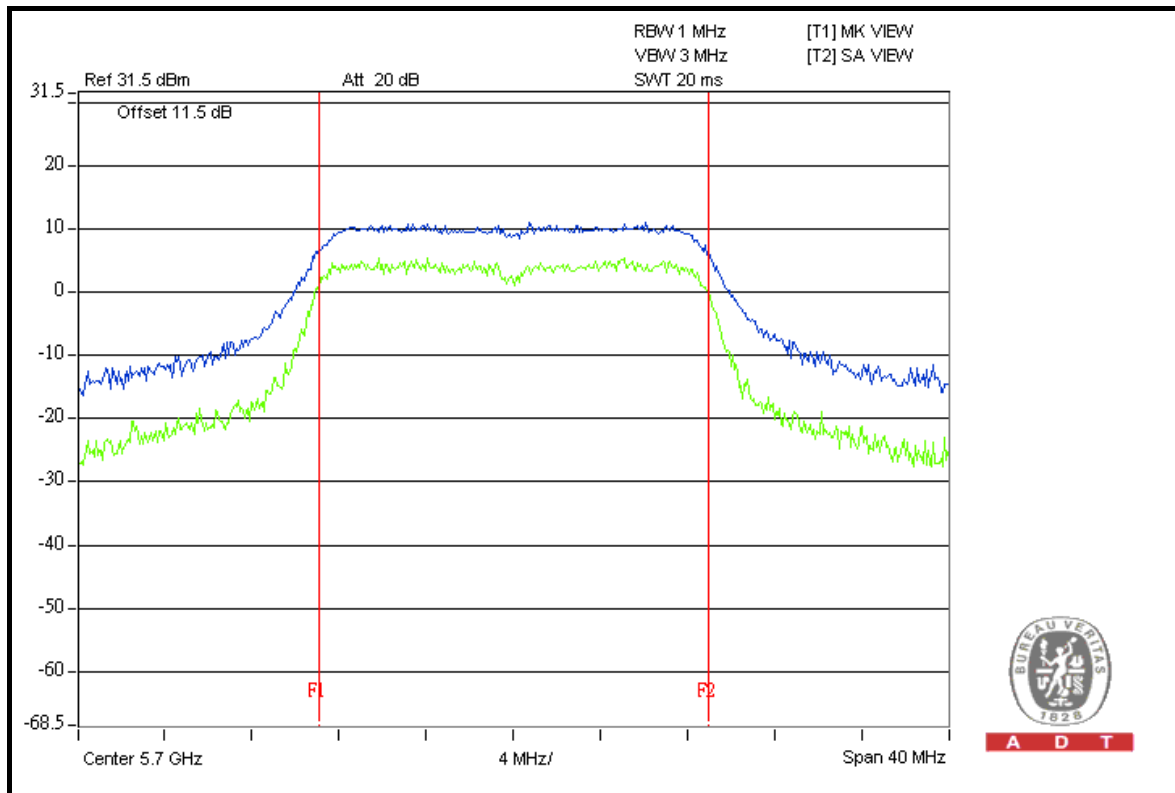
802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	7.40	6.80	7.65	13	PASS
60	5300	7.82	6.95	7.58	13	PASS
64	5320	7.41	7.89	7.88	13	PASS
100	5500	7.70	7.62	7.80	13	PASS
116	5580	7.51	7.15	7.60	13	PASS
136	5680	7.46	7.46	7.45	13	PASS
140	5700	7.55	7.47	8.06	13	PASS

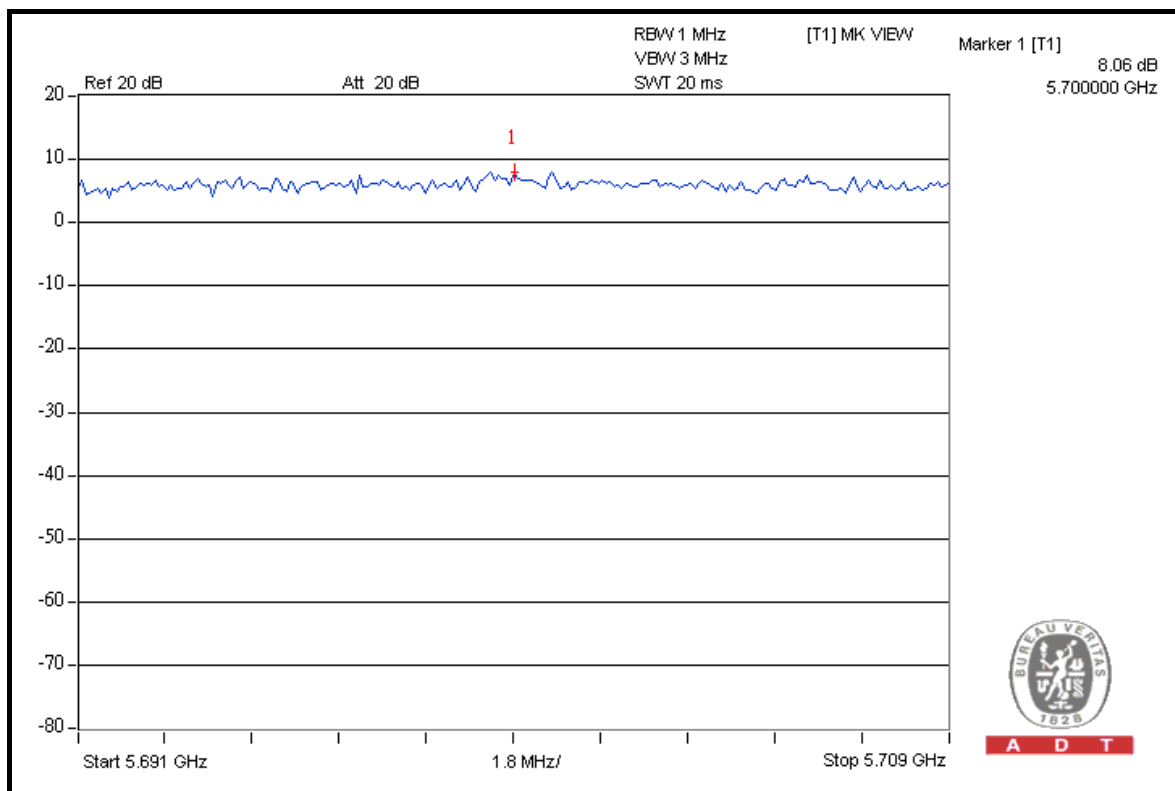


A D T

### FOR CHAIN 2: CH 140



A D T



A D T



A D T

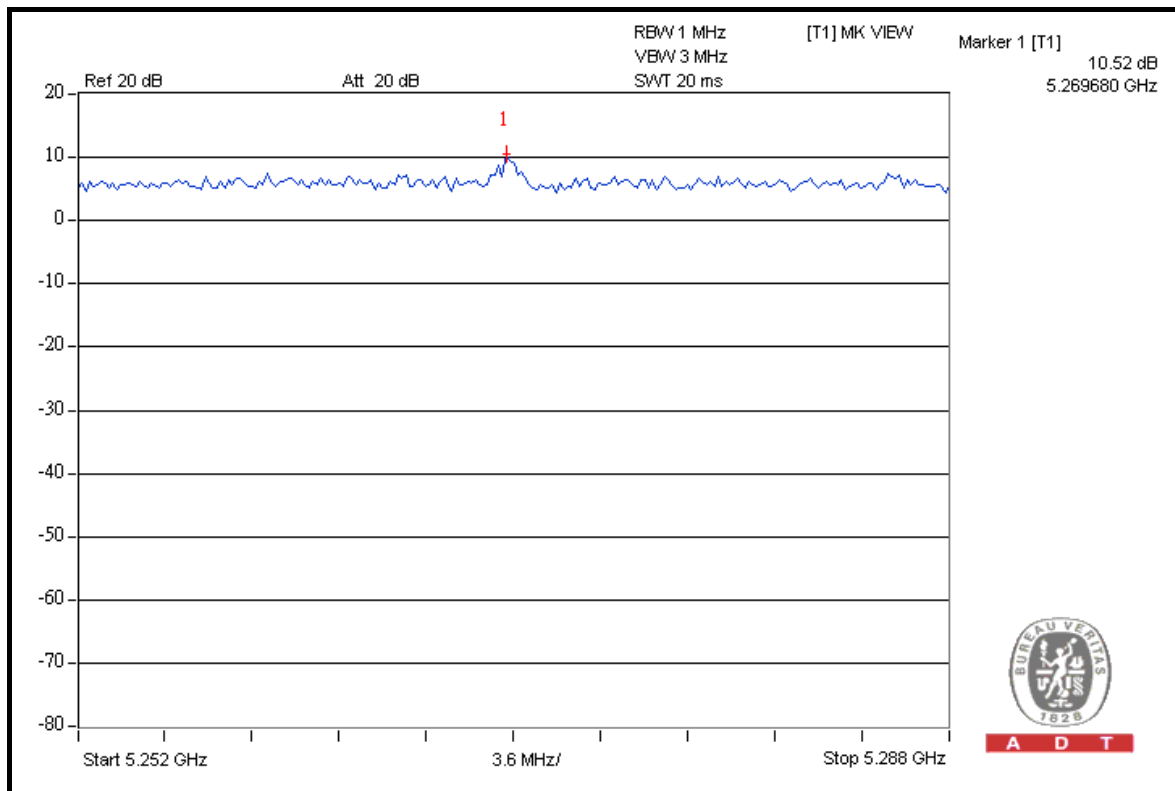
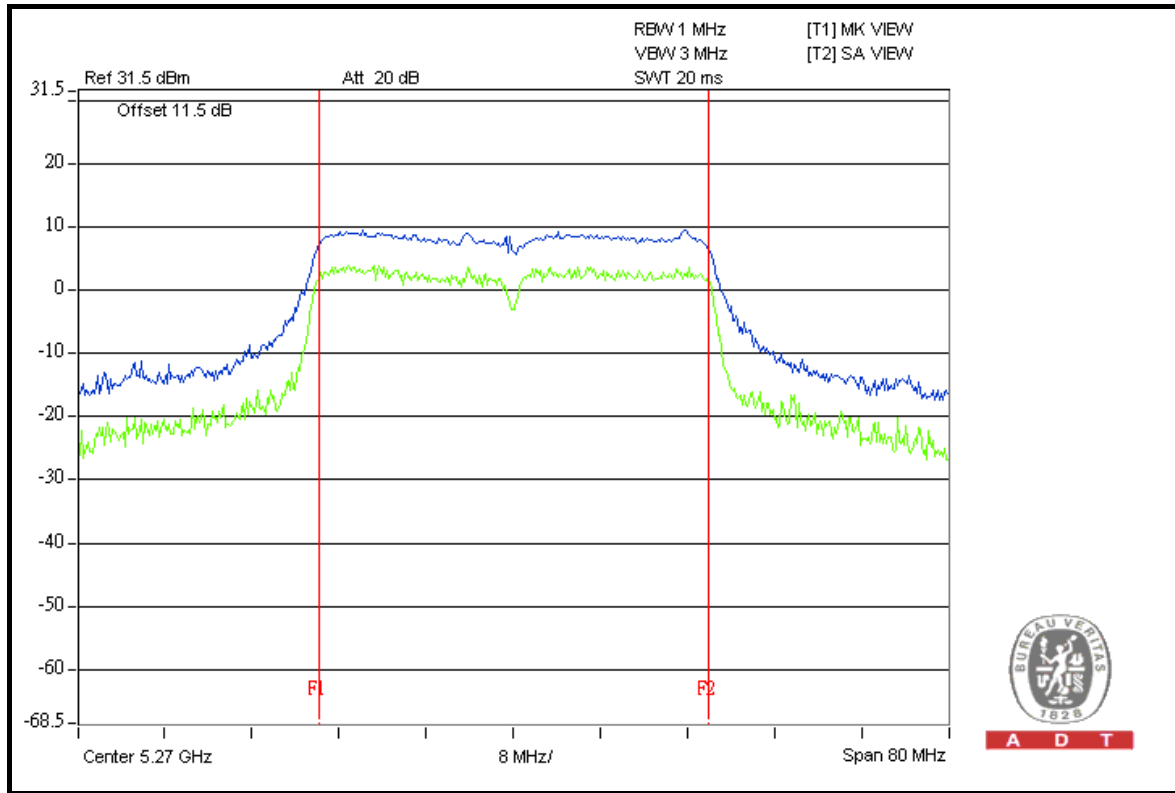
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
54	5270	9.24	10.52	8.84	13	PASS
62	5310	8.47	10.05	8.51	13	PASS
102	5510	9.63	10.51	8.60	13	PASS
110	5550	9.32	8.27	8.67	13	PASS



A D T

### FOR CHAIN 1: CH 54





#### 4.4.9 TEST RESULTS (B1)

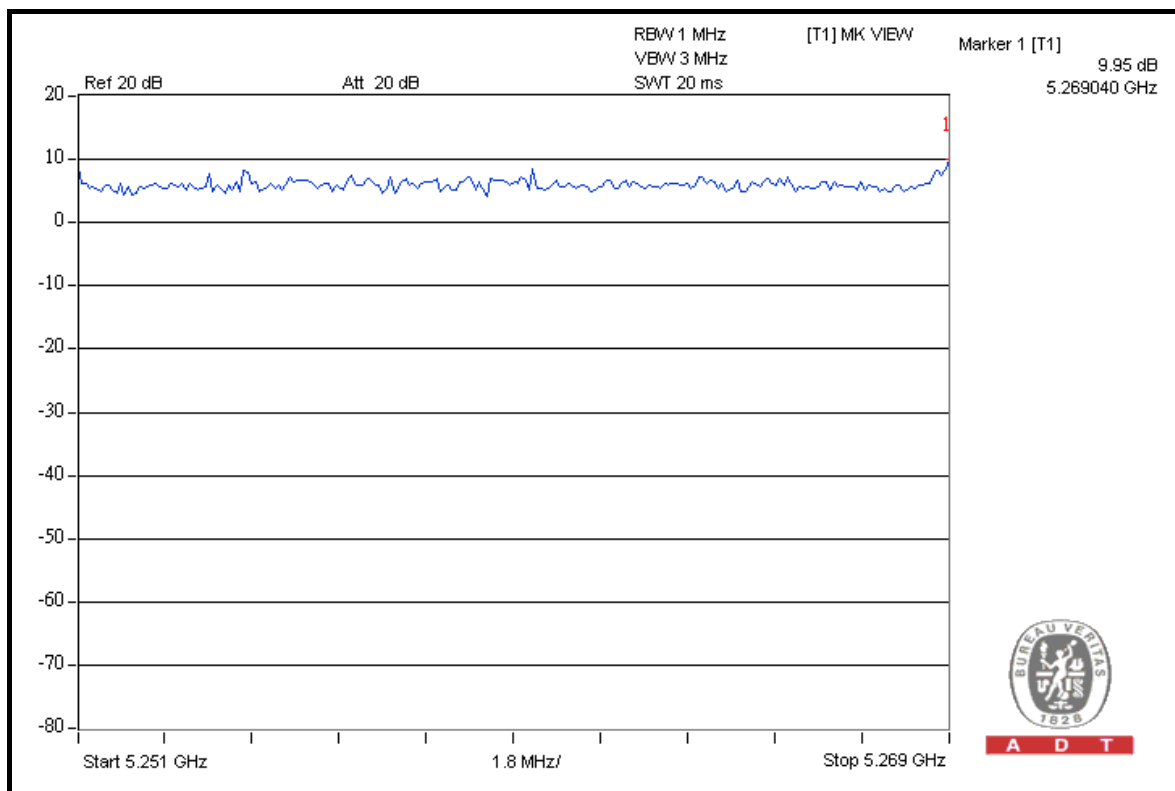
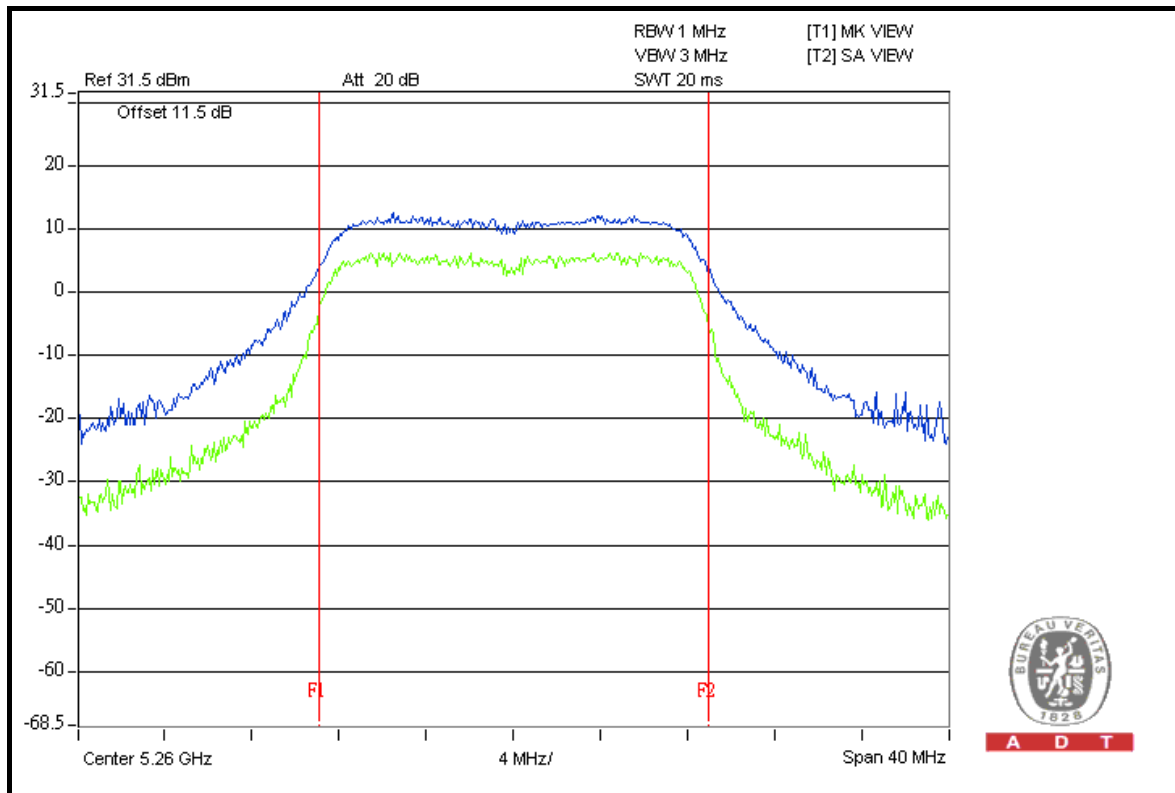
##### 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	9.95	8.38	9.41	13	PASS
60	5300	9.22	9.73	8.86	13	PASS
64	5320	8.63	9.19	8.99	13	PASS
100	5500	8.62	9.35	9.15	13	PASS
116	5580	9.83	8.74	8.96	13	PASS
136	5680	9.66	8.84	8.91	13	PASS
140	5700	9.18	9.86	8.14	13	PASS



A D T

### FOR CHAIN 0: CH 52





A D T

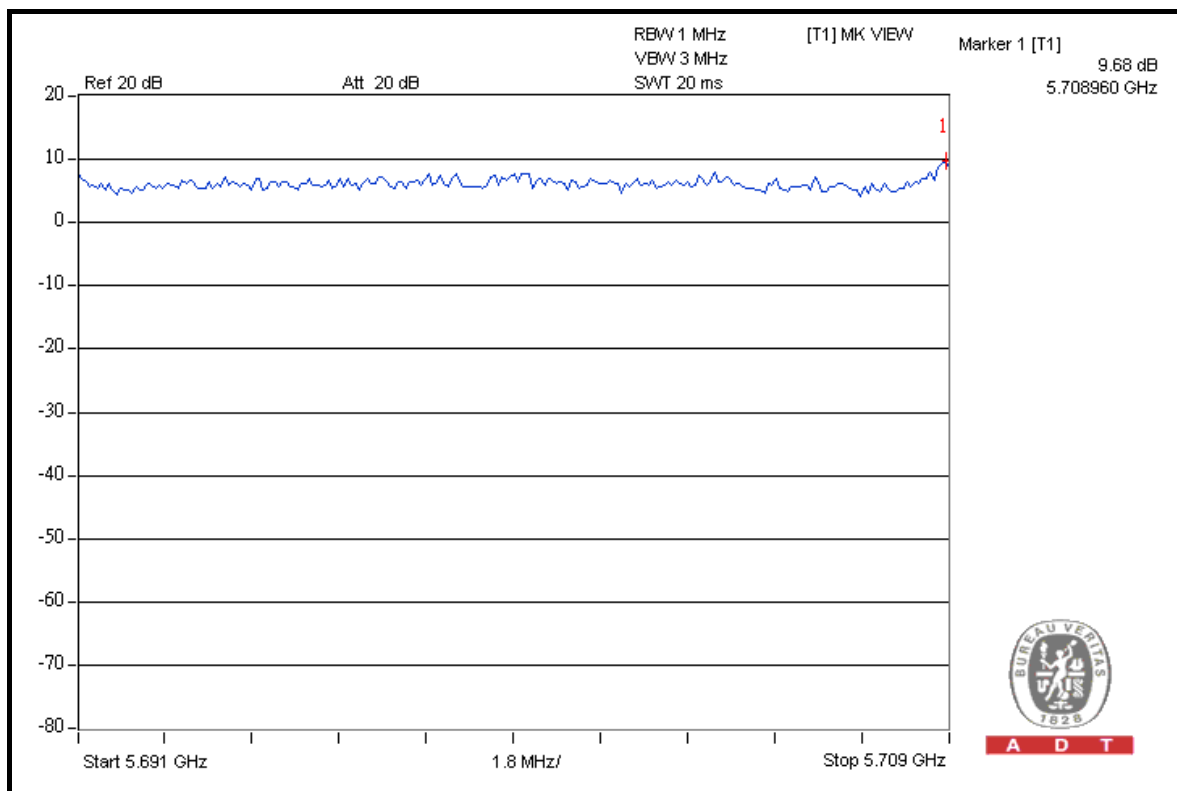
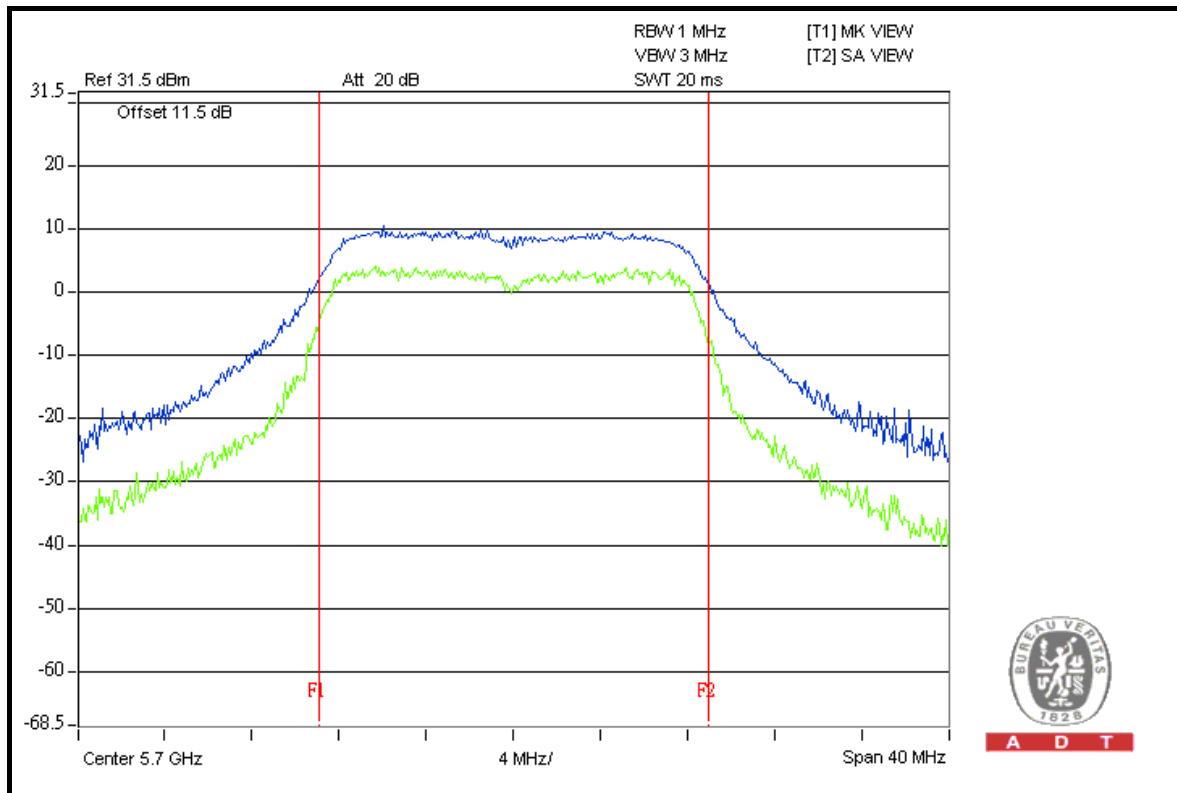
802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	7.34	7.49	7.72	13	PASS
60	5300	7.38	7.08	8.22	13	PASS
64	5320	7.90	7.62	8.36	13	PASS
100	5500	7.43	7.42	8.19	13	PASS
116	5580	7.62	7.33	8.37	13	PASS
136	5680	7.27	6.93	8.28	13	PASS
140	5700	9.68	9.17	9.26	13	PASS



A D T

### FOR CHAIN 0: CH 140







A D T

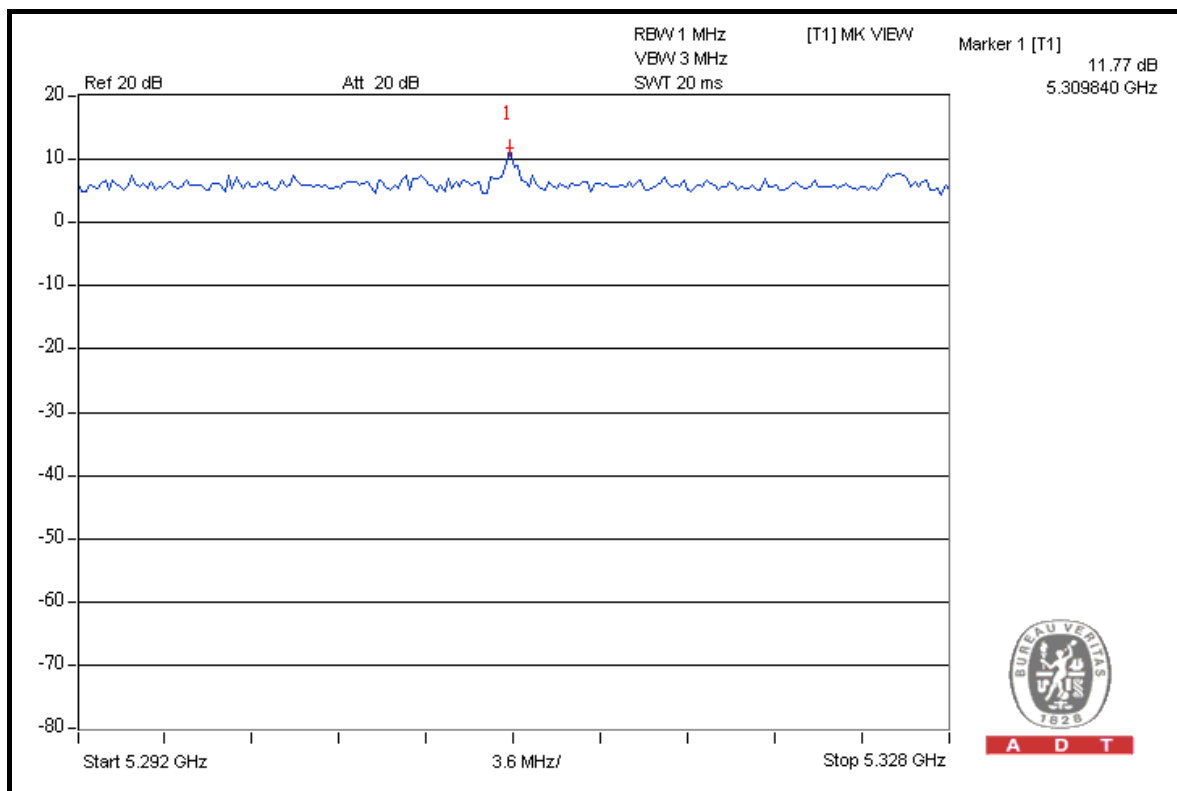
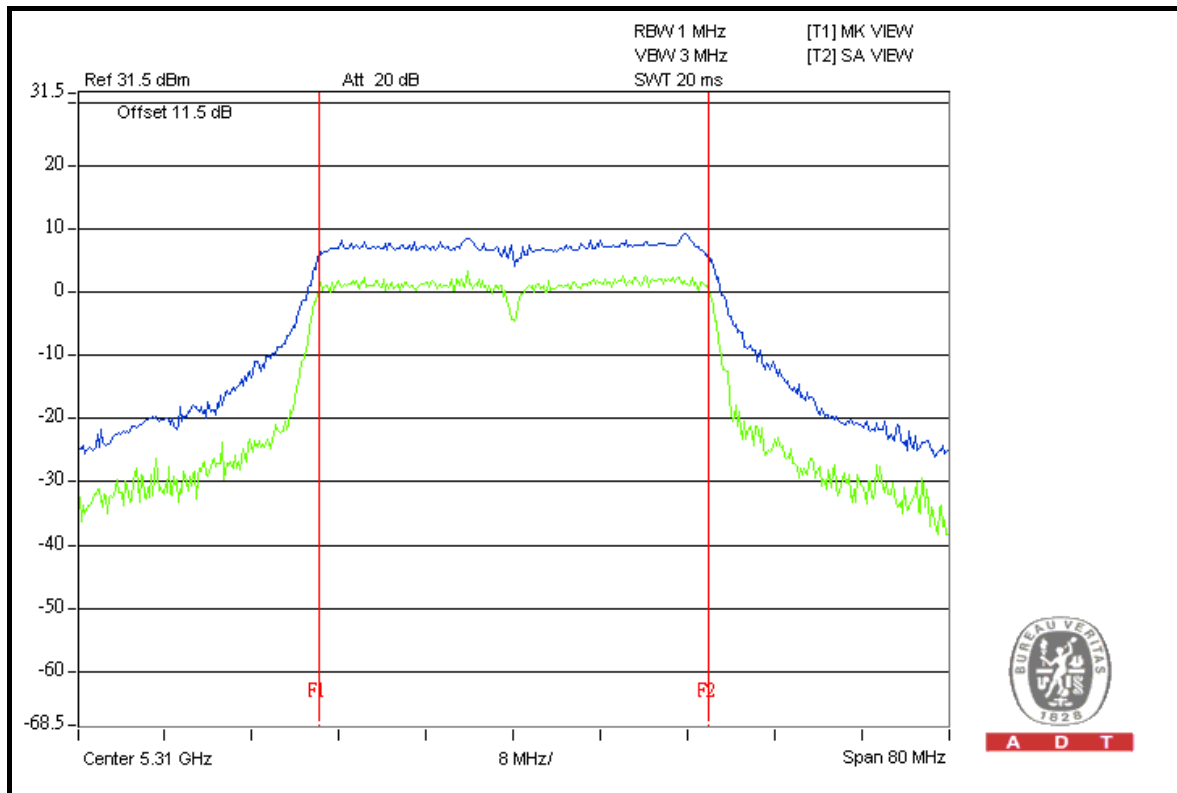
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
54	5270	9.37	8.78	9.34	13	PASS
62	5310	10.83	11.77	9.99	13	PASS
102	5510	9.41	10.08	9.58	13	PASS
110	5550	10.98	9.71	8.56	13	PASS



A D T

### FOR CHAIN 1: CH 62



#### 4.4.10 TEST RESULTS (B2)

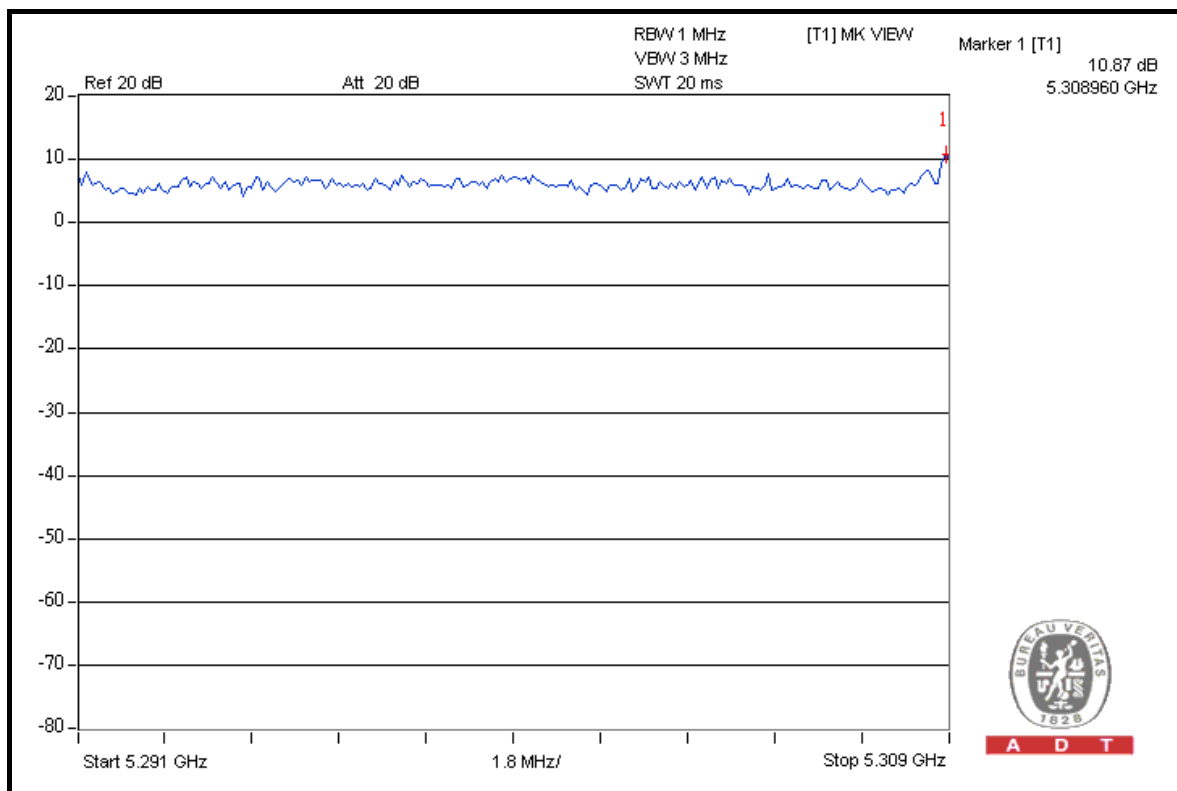
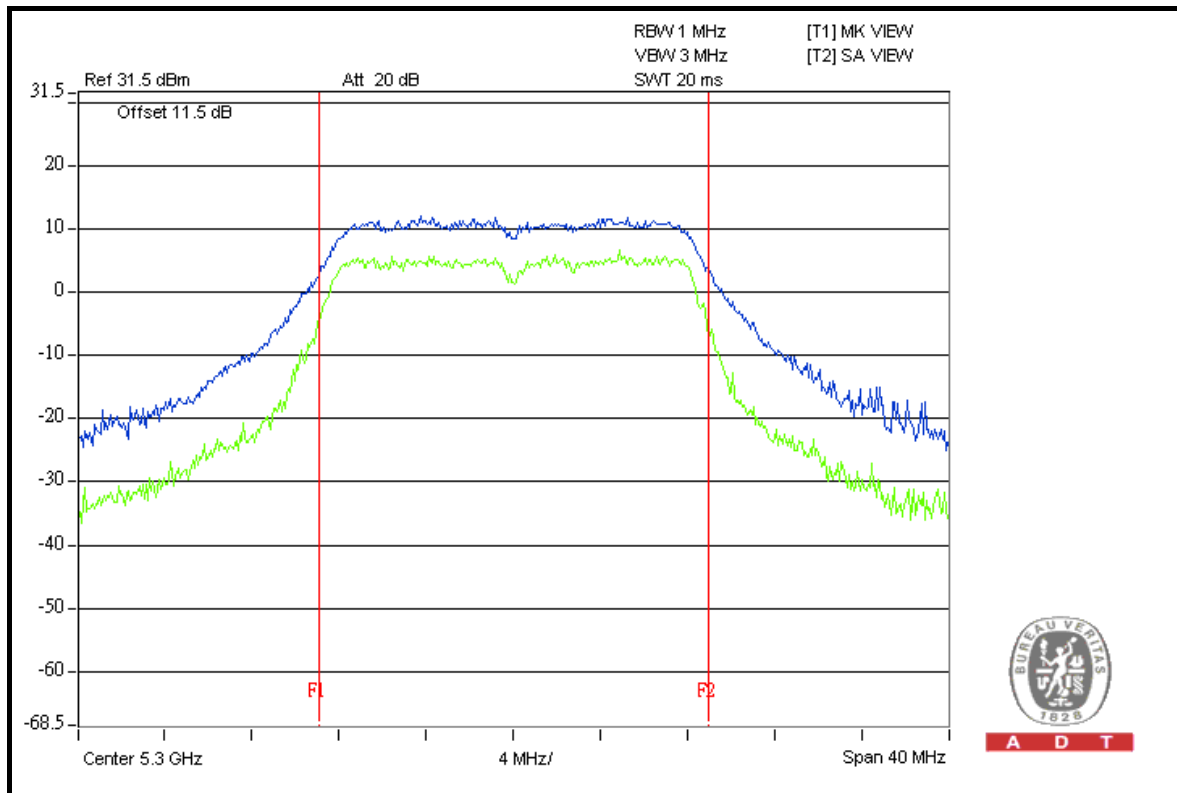
##### 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	10.70	9.37	8.77	13	PASS
60	5300	10.87	9.56	8.04	13	PASS
64	5320	9.09	9.32	9.05	13	PASS
100	5500	8.40	9.70	8.13	13	PASS
116	5580	8.83	9.64	9.10	13	PASS
136	5680	9.38	8.80	8.67	13	PASS
140	5700	9.89	8.94	9.30	13	PASS



A D T

### FOR CHAIN 0: CH 60





A D T

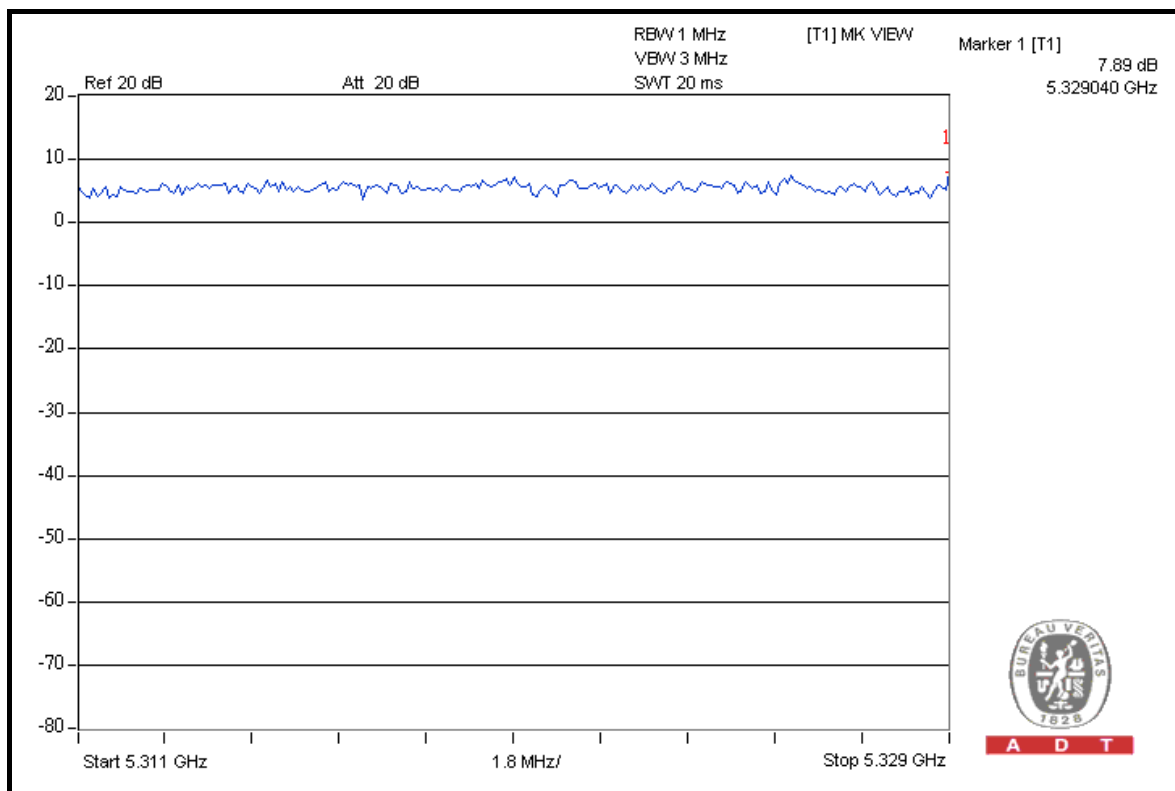
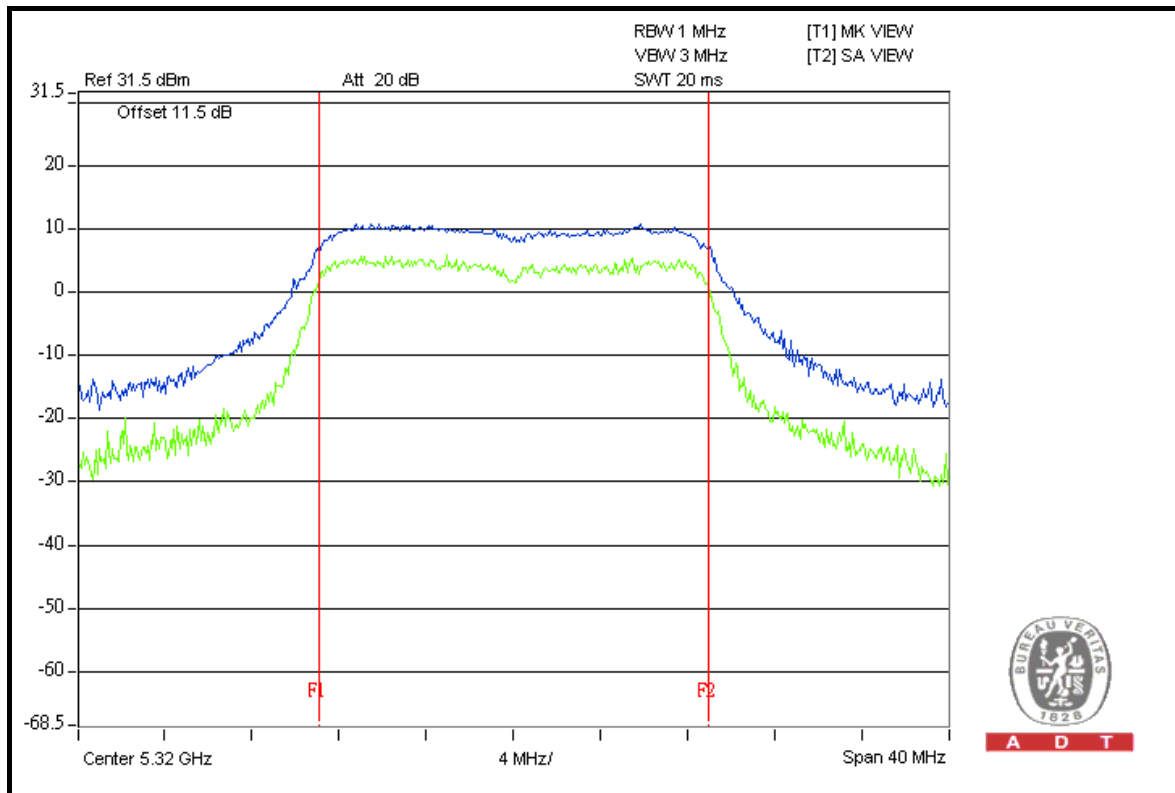
802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	7.40	6.80	7.65	13	PASS
60	5300	7.82	6.95	7.58	13	PASS
64	5320	7.41	7.89	7.88	13	PASS
100	5500	7.70	7.62	7.80	13	PASS
116	5580	7.51	7.15	7.60	13	PASS
136	5680	7.46	7.46	7.45	13	PASS
140	5700	7.36	7.17	7.55	13	PASS



A D T

### FOR CHAIN 1: CH 64





A D T

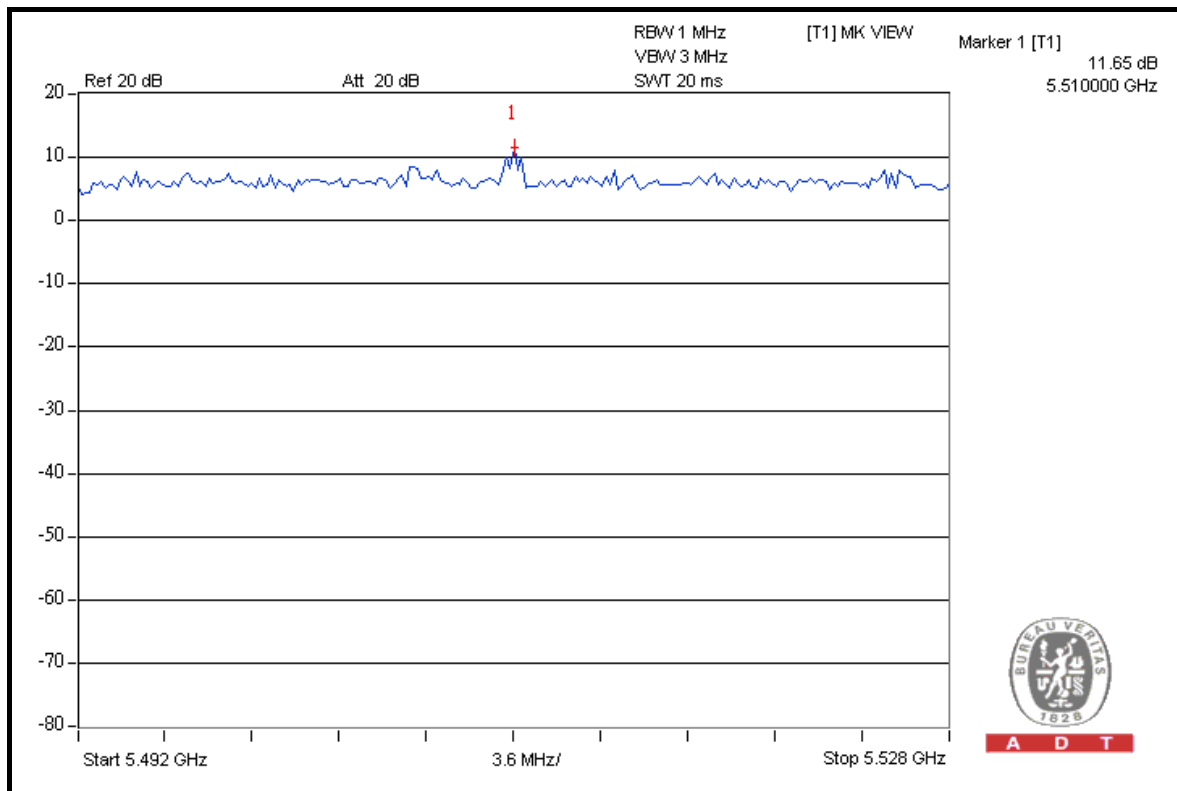
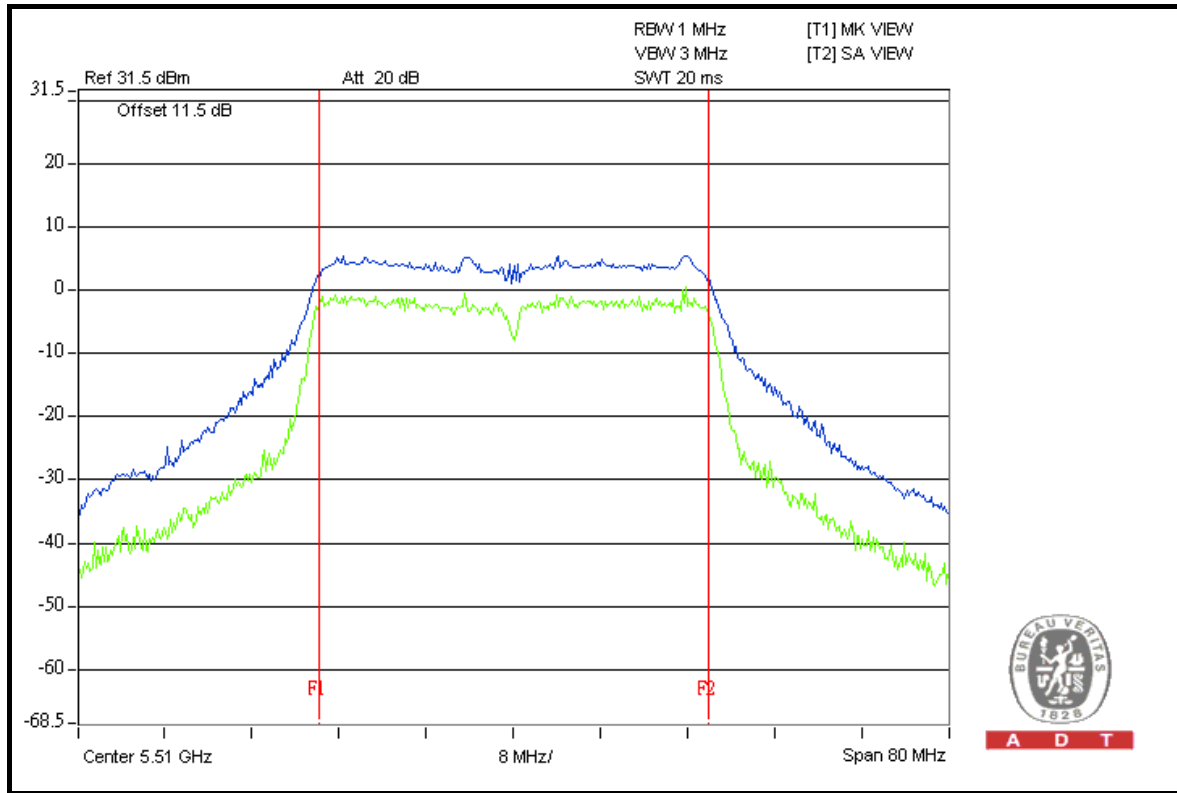
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
54	5270	9.24	10.52	8.84	13	PASS
62	5310	8.47	10.05	8.51	13	PASS
102	5510	11.65	9.61	8.87	13	PASS
110	5550	9.32	8.27	8.67	13	PASS



A D T

FOR CHAIN 0: CH 102





#### 4.4.11 TEST RESULTS (C1)

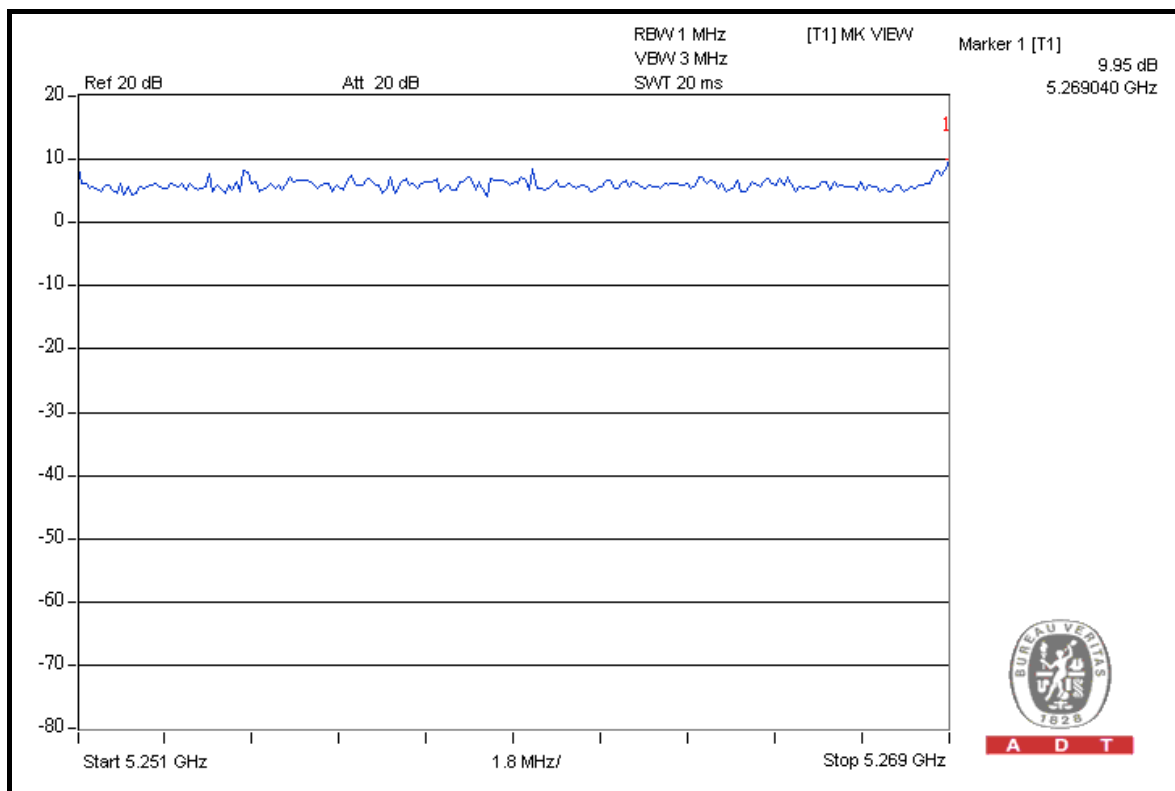
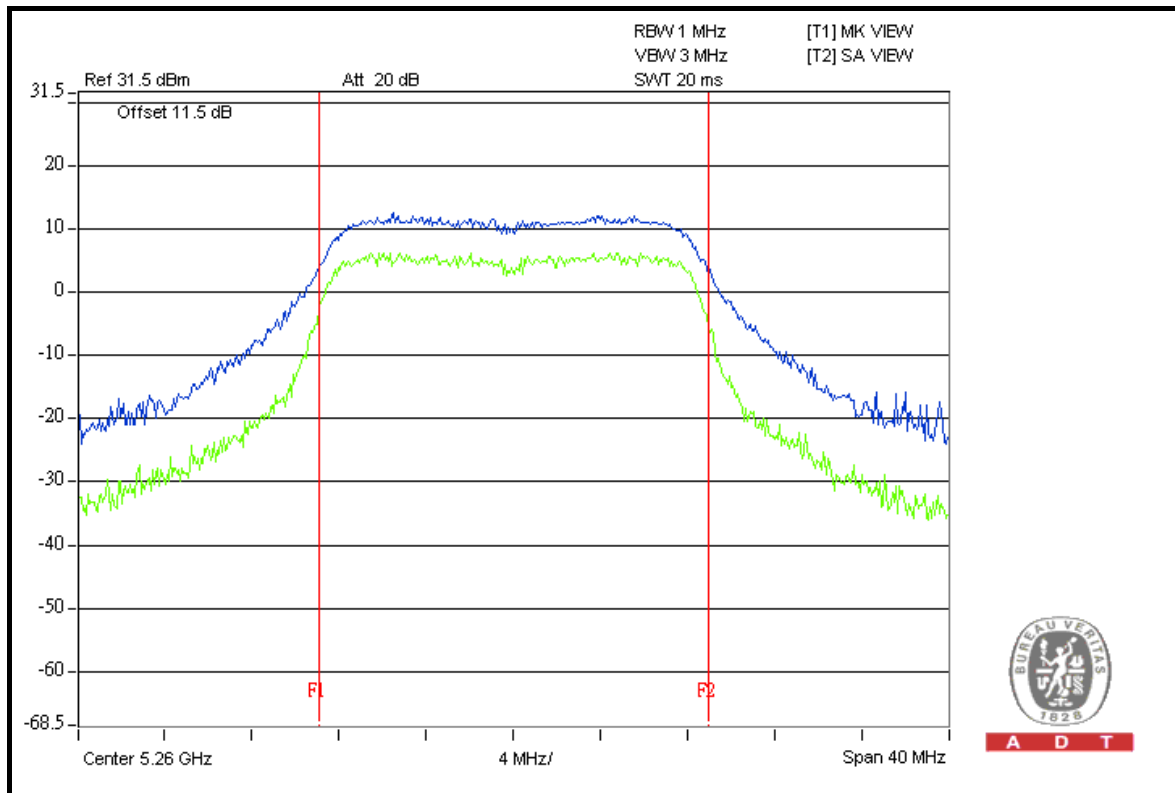
##### 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	9.95	8.38	9.41	13	PASS
60	5300	9.22	9.73	8.86	13	PASS
64	5320	8.63	9.19	8.99	13	PASS
100	5500	8.62	9.35	9.15	13	PASS
116	5580	9.83	8.74	8.96	13	PASS
136	5680	9.66	8.84	8.91	13	PASS
140	5700	9.87	8.93	8.34	13	PASS



A D T

### FOR CHAIN 0: CH 52





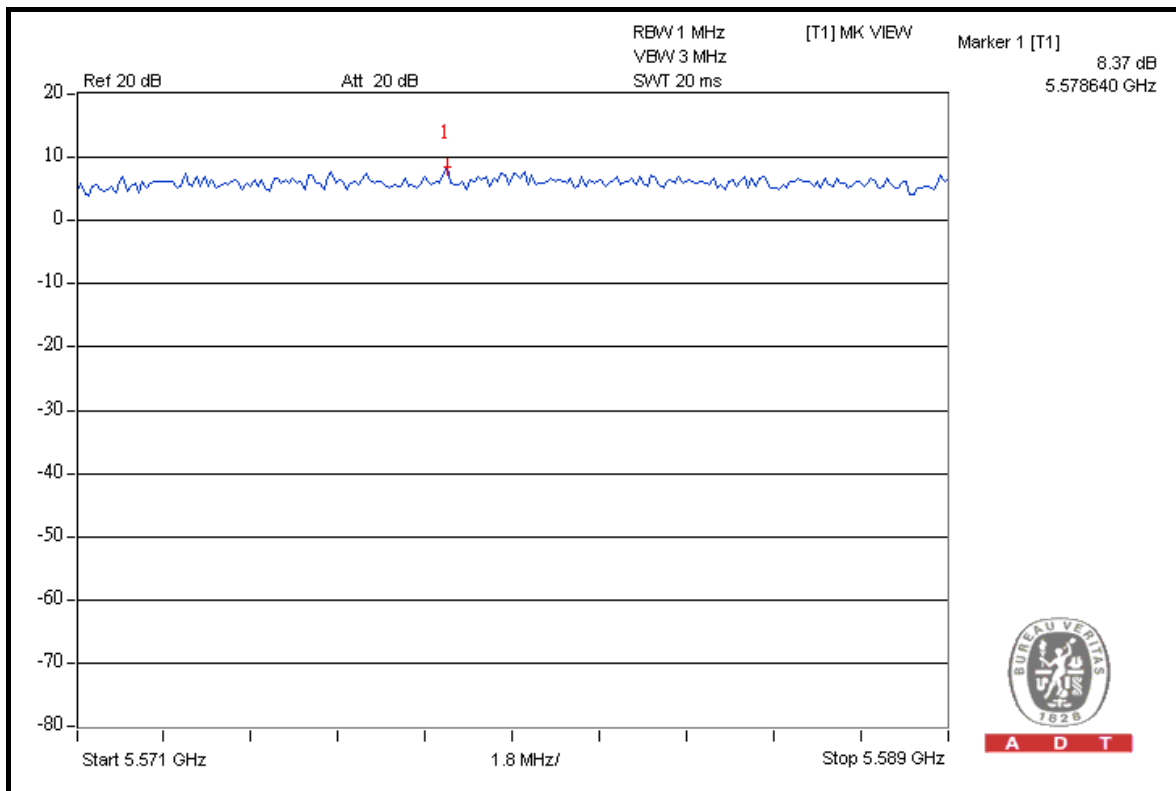
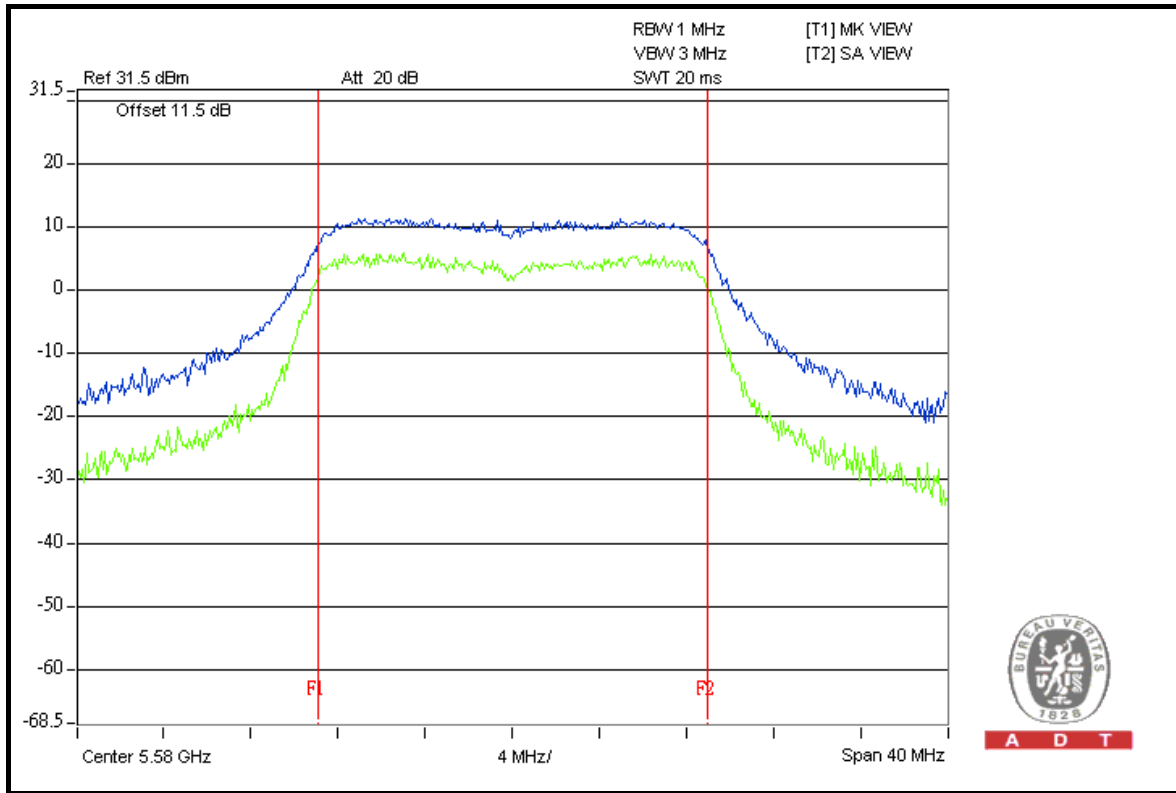
802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	7.34	7.49	7.72	13	PASS
60	5300	7.38	7.08	8.22	13	PASS
64	5320	7.90	7.62	8.36	13	PASS
100	5500	7.43	7.42	8.19	13	PASS
116	5580	7.62	7.33	8.37	13	PASS
136	5680	7.27	6.93	8.28	13	PASS
140	5700	7.56	7.93	7.71	13	PASS



A D T

### FOR CHAIN 2: CH 116





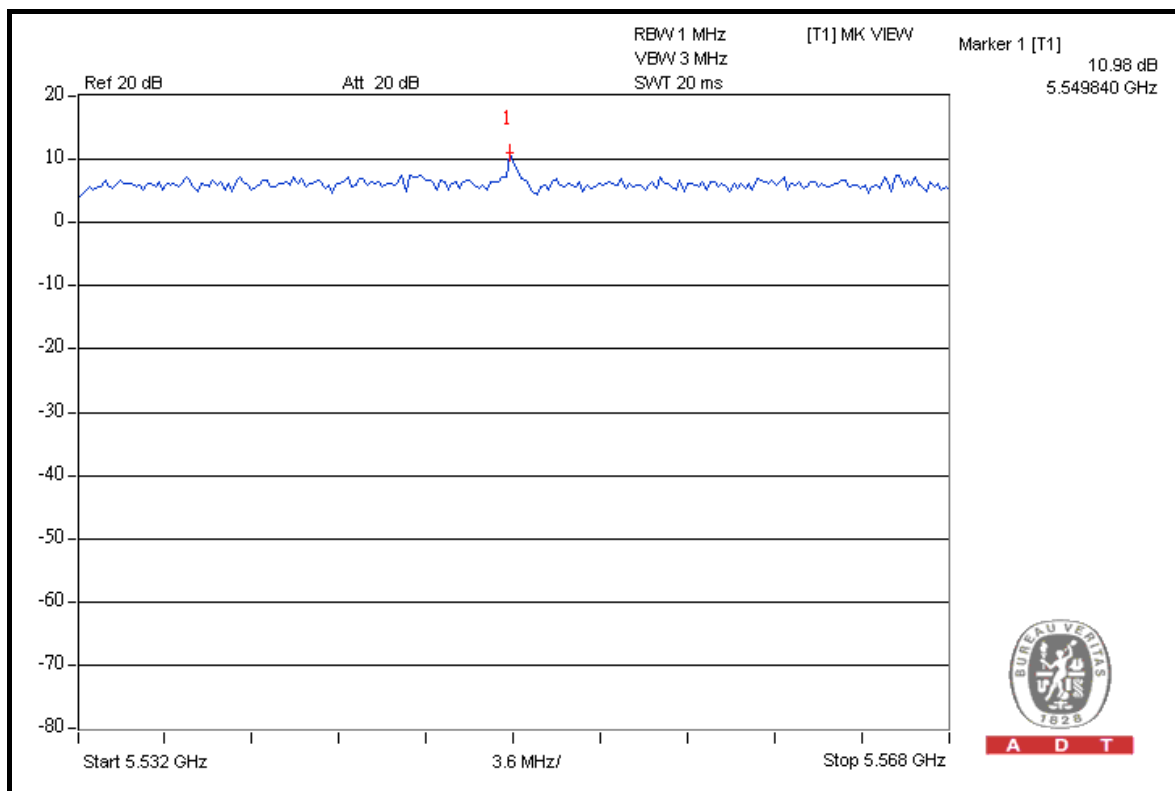
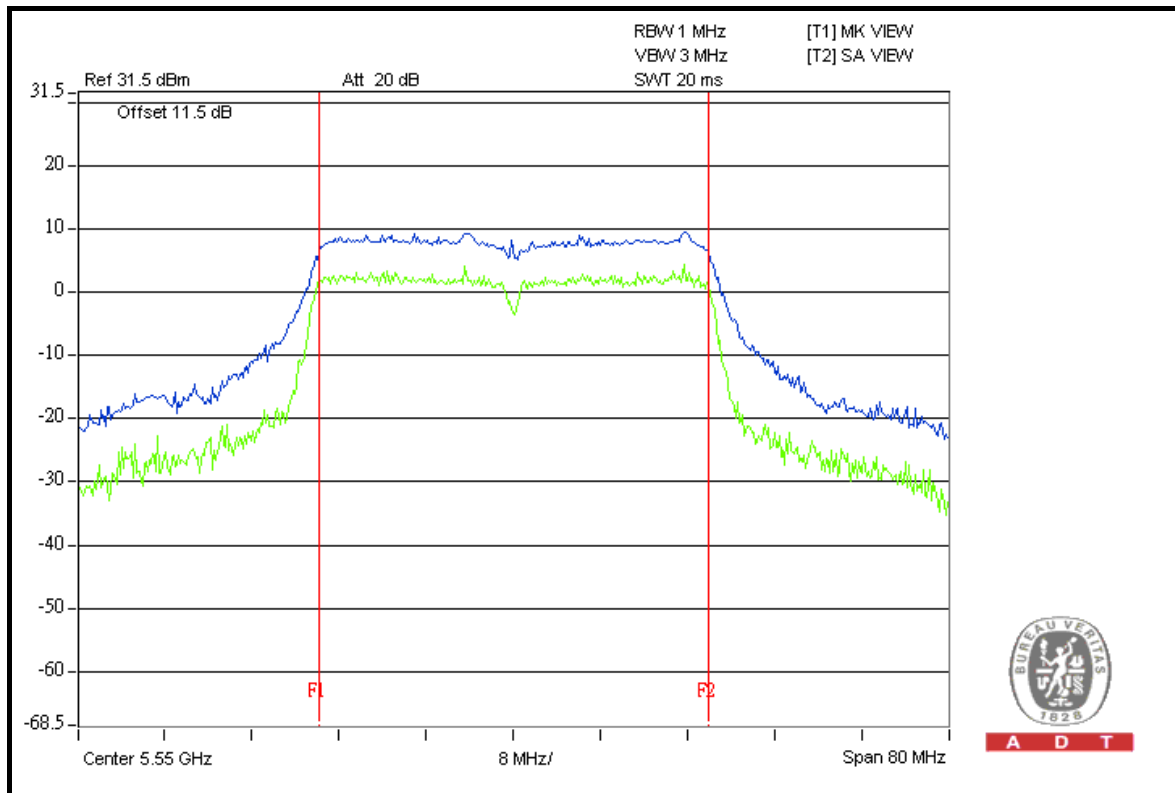
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
54	5270	9.37	8.78	9.34	13	PASS
62	5310	9.73	9.32	8.15	13	PASS
102	5510	9.53	8.59	8.60	13	PASS
110	5550	10.98	9.71	8.56	13	PASS



A D T

### FOR CHAIN 0: CH 110



#### 4.4.12 TEST RESULTS (C2)

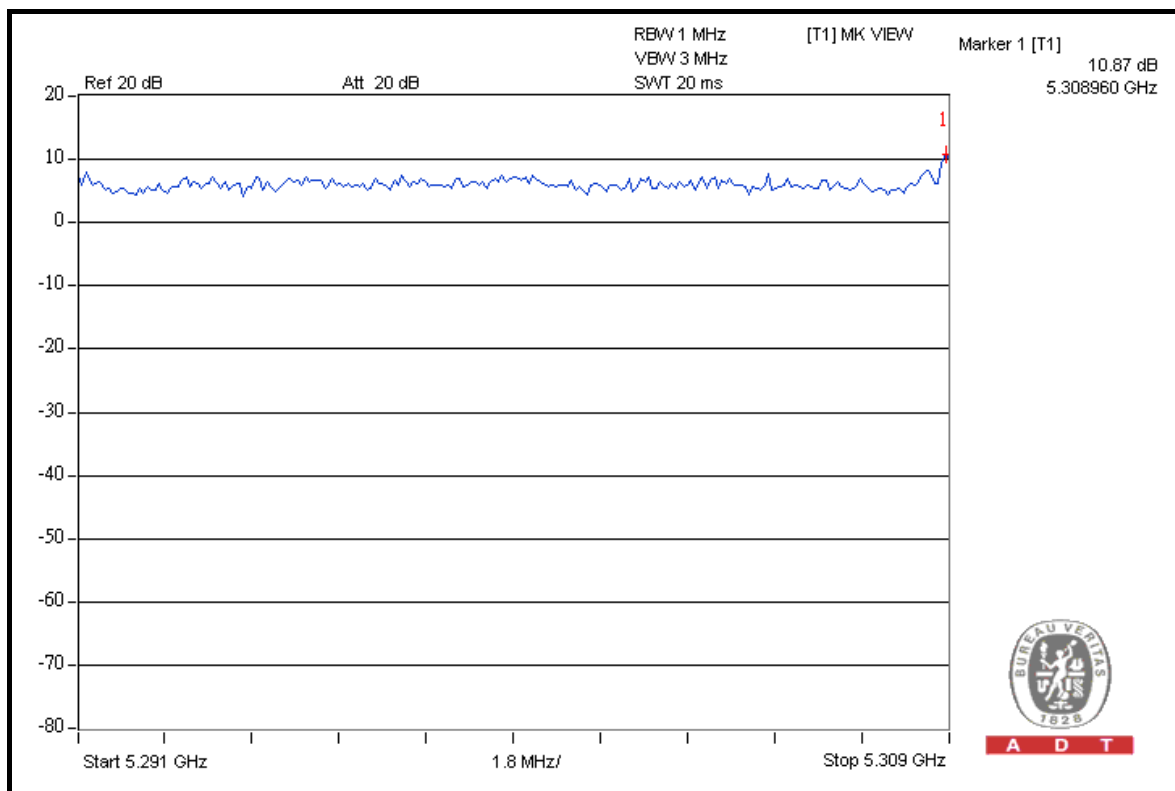
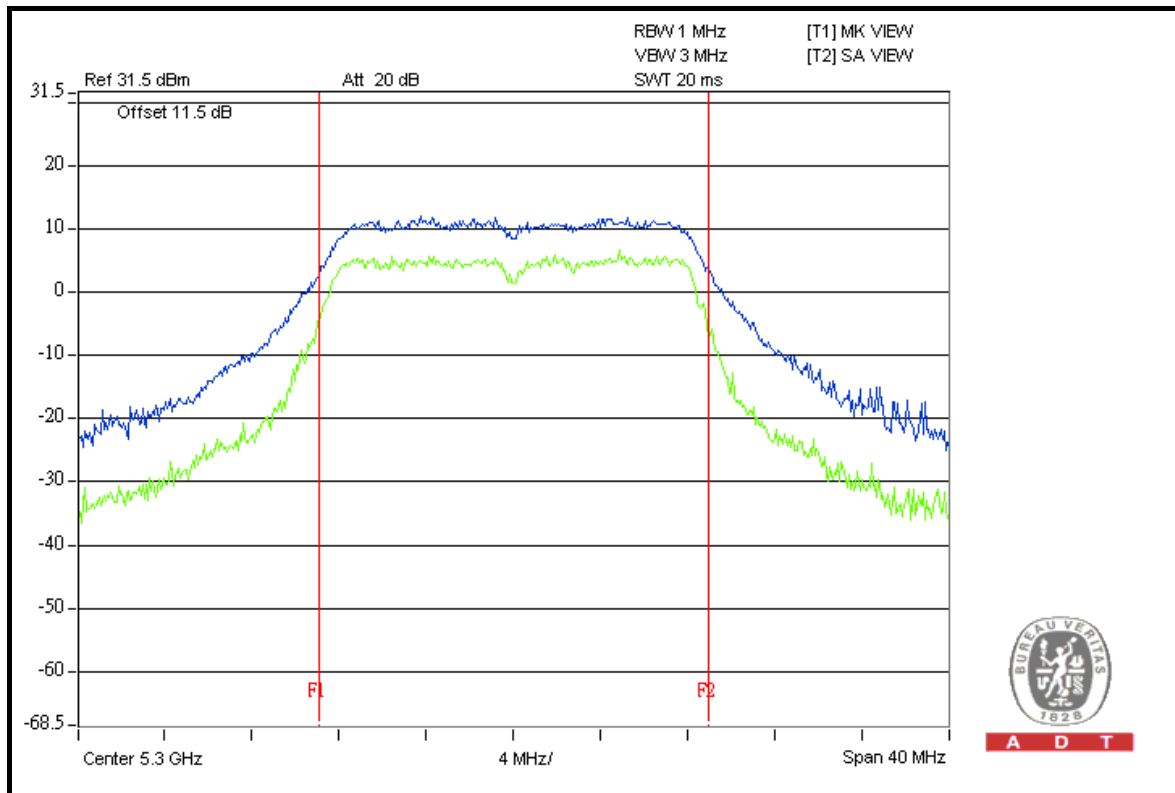
##### 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	10.70	9.37	8.77	13	PASS
60	5300	10.87	9.56	8.04	13	PASS
64	5320	9.09	9.32	9.05	13	PASS
100	5500	8.40	9.70	8.13	13	PASS
116	5580	8.83	9.64	9.10	13	PASS
136	5680	9.38	8.80	8.67	13	PASS
140	5700	9.93	8.74	9.24	13	PASS



A D T

### FOR CHAIN 0: CH 60







A D T

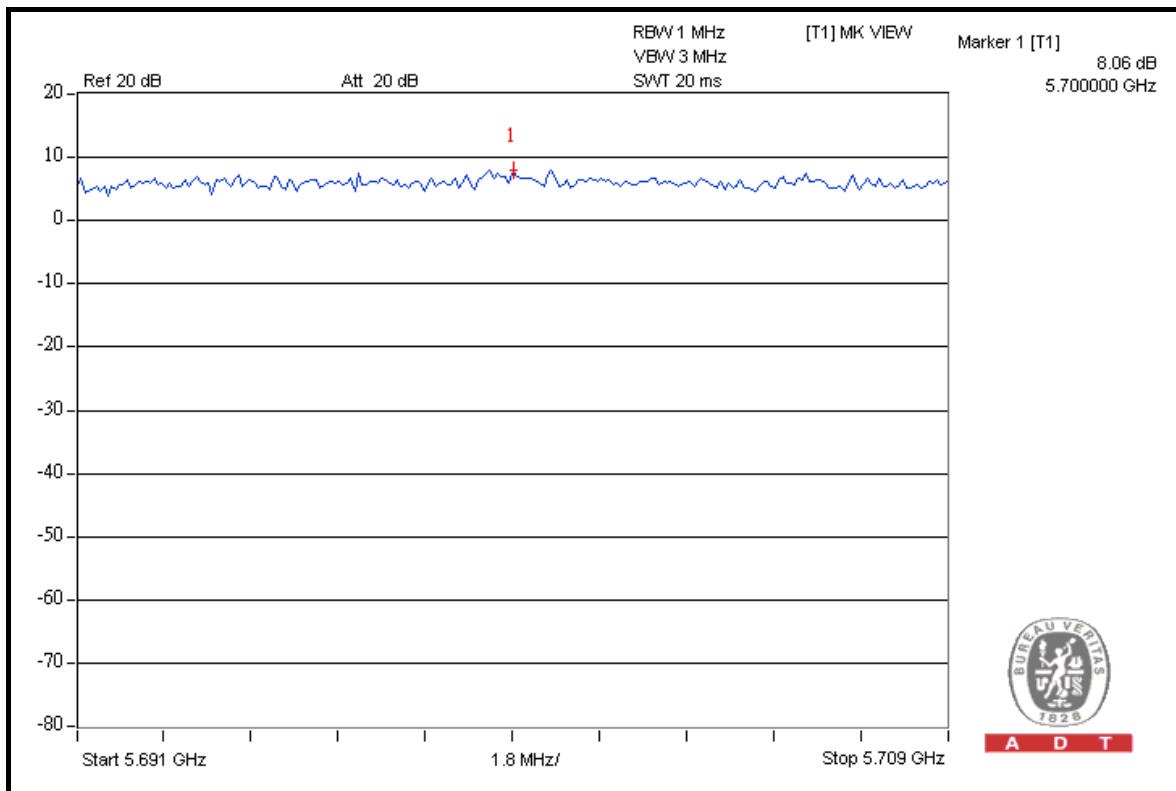
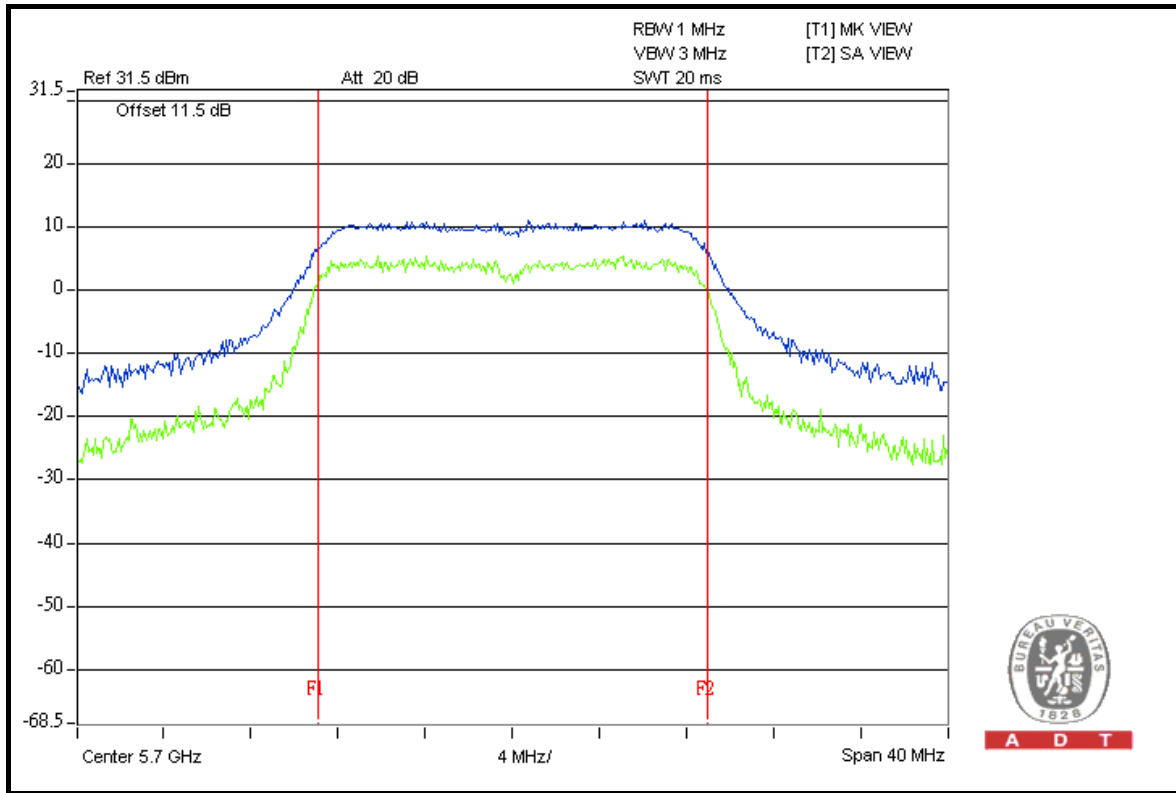
802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
52	5260	7.40	6.80	7.65	13	PASS
60	5300	7.82	6.95	7.58	13	PASS
64	5320	7.41	7.89	7.88	13	PASS
100	5500	7.70	7.62	7.80	13	PASS
116	5580	7.51	7.15	7.60	13	PASS
136	5680	7.46	7.46	7.45	13	PASS
140	5700	7.55	7.47	8.06	13	PASS



A D T

FOR CHAIN 2: CH 140





A D T

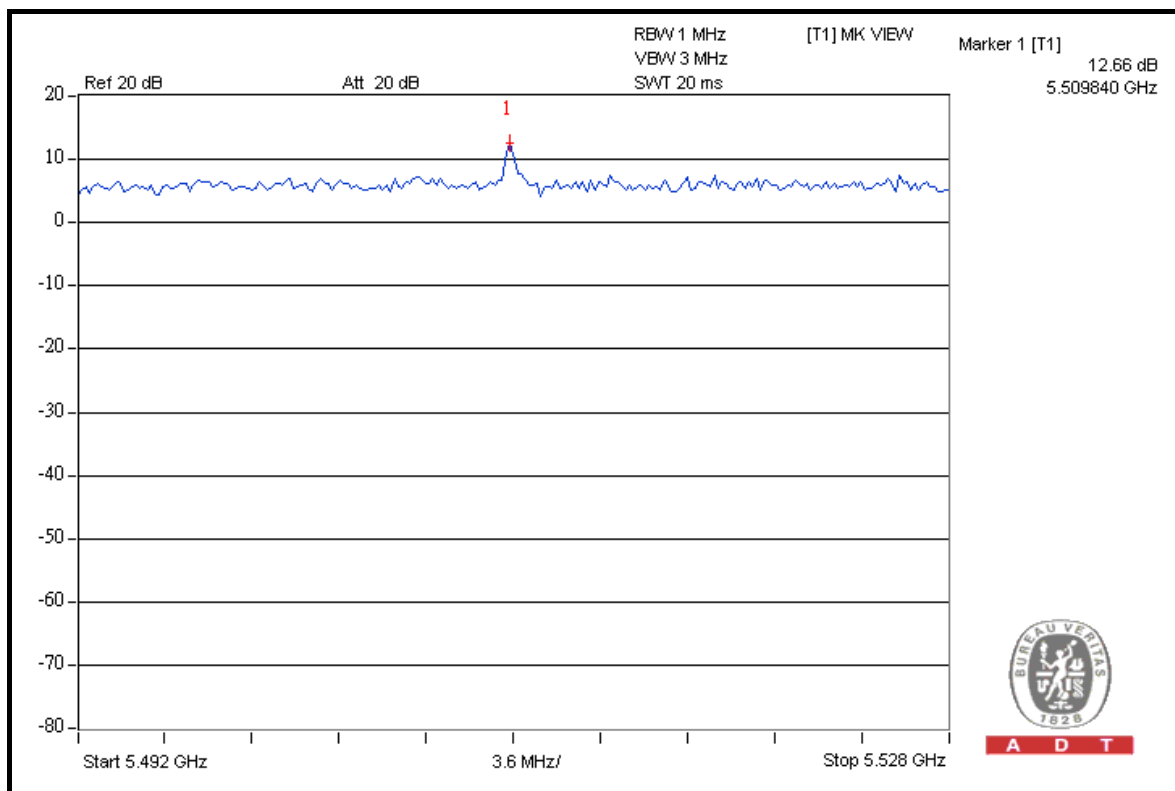
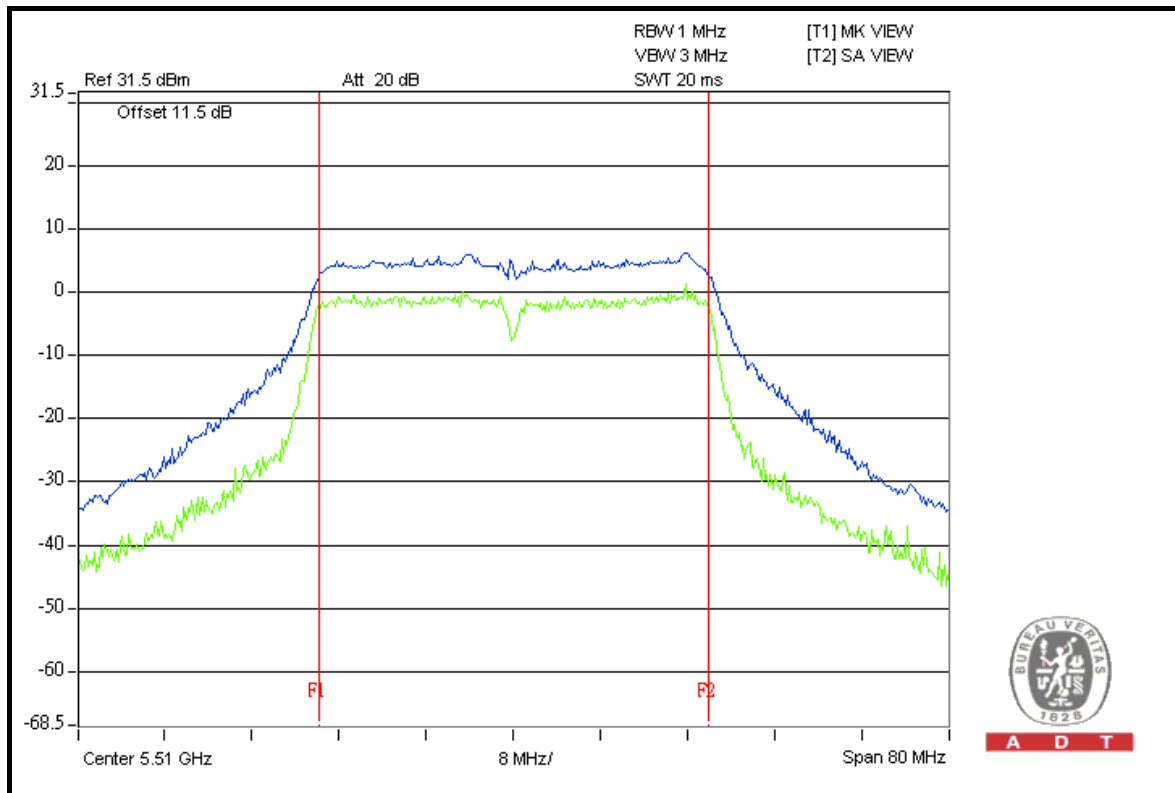
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)			PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
54	5270	9.24	10.52	8.84	13	PASS
62	5310	11.48	11.83	8.62	13	PASS
102	5510	9.30	12.66	9.29	13	PASS
110	5550	9.32	8.27	8.67	13	PASS



A D T

### FOR CHAIN 1: CH 102



## 4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

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

### 4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSP40	100039	Jan. 11, 2010	Jan. 10, 2011

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

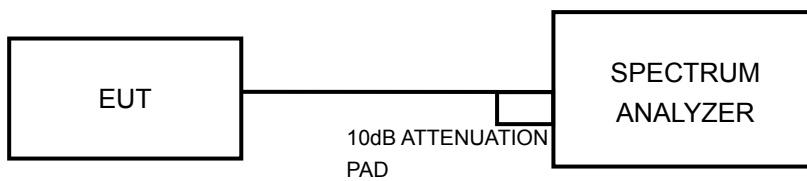
### 4.5.3 TEST PROCEDURES

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW = 1MHz, VBW = 3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

#### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.5.5 TEST SETUP



#### 4.5.6 EUT OPERATING CONDITIONS

Same as 5.3.6.



A D T

### 4.5.7 TEST RESULTS (A1)

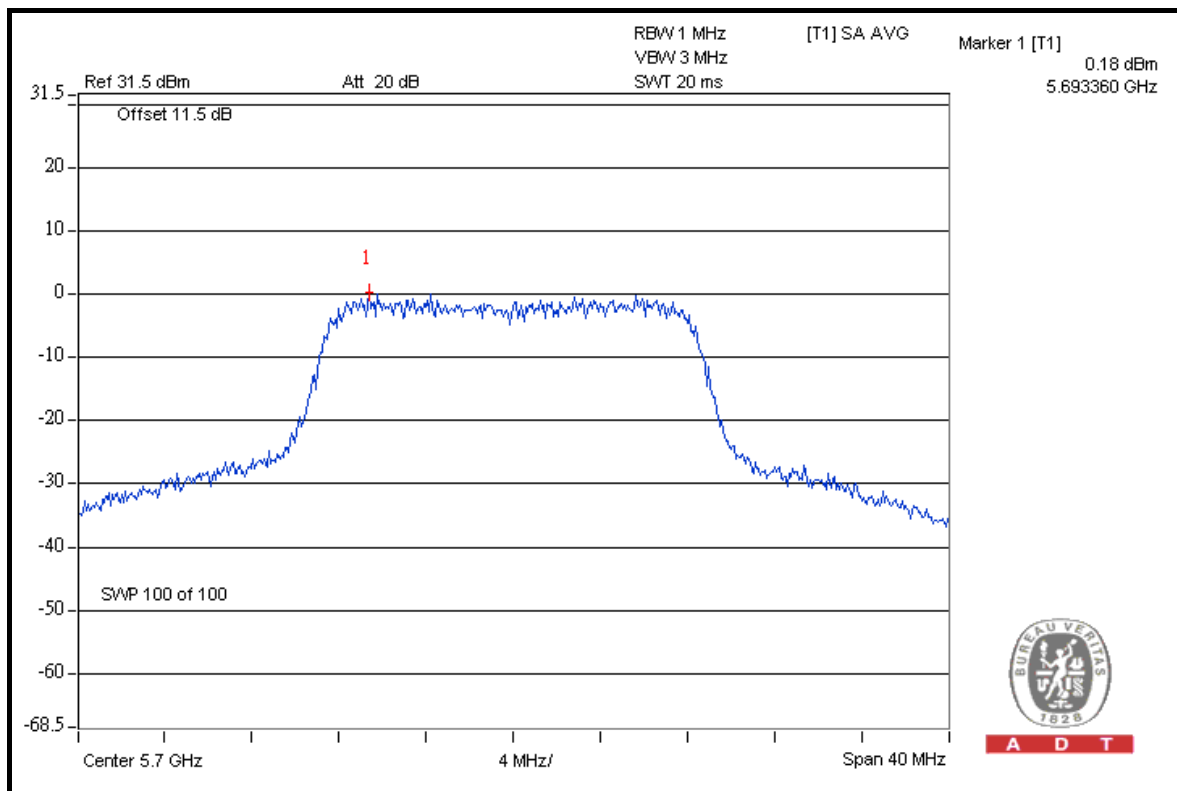
#### 802.11a

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.8	-0.2	-0.1	4.4	5.2	PASS
60	5300	-0.8	-0.3	-0.2	4.4	5.2	PASS
64	5320	-0.8	-0.2	-0.1	4.4	5.2	PASS
100	5500	-0.8	-0.1	-0.2	4.4	5.2	PASS
116	5580	-0.9	0.0	0.0	4.5	5.2	PASS
136	5680	-0.9	-0.2	0.1	4.5	5.2	PASS
140	5700	-0.6	0.1	0.2	4.7	5.2	PASS

**NOTE:**

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$ , so the power spectral density limit shall be reduced to  $11 - (11.79 - 6) = 5.2\text{dBm}$ .

#### FOR CHAIN 2: CH 140



A D T



A D T

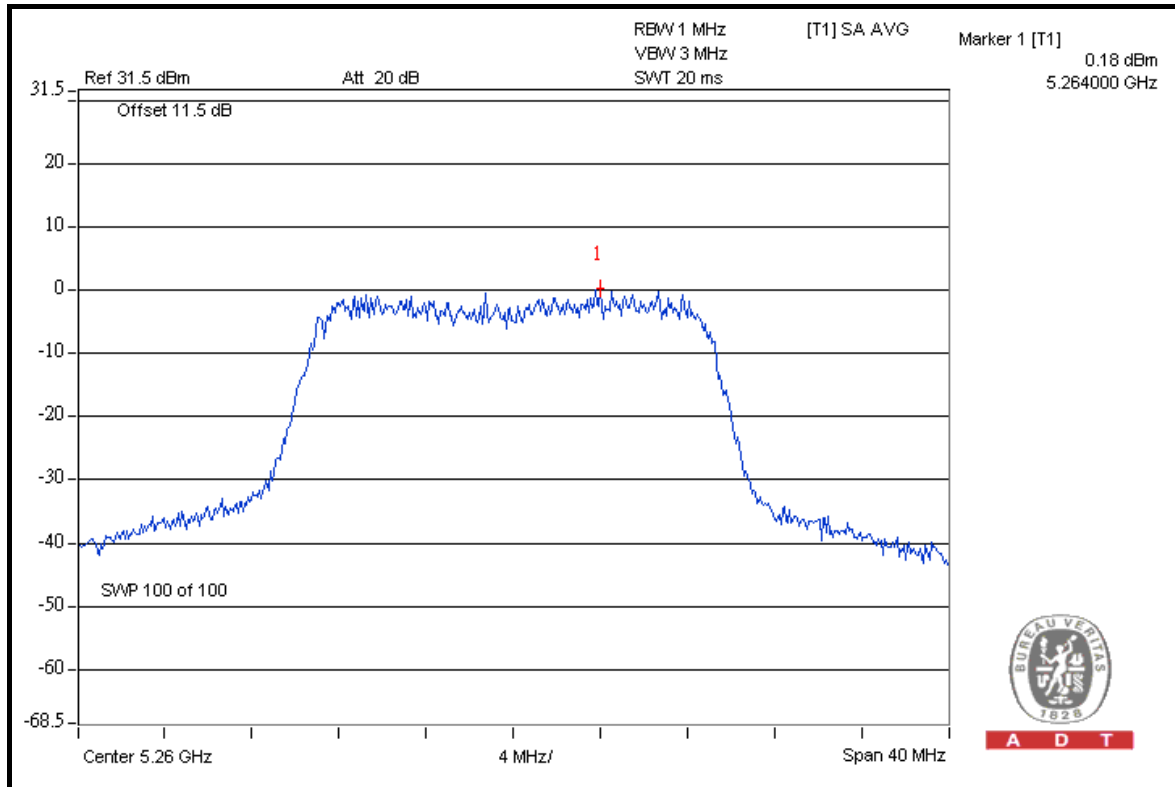
### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.7	-0.1	0.2	4.6	5.2	PASS
60	5300	-0.8	-0.4	0.1	4.4	5.2	PASS
64	5320	-1.0	-0.3	0.0	4.4	5.2	PASS
100	5500	-0.9	-0.3	-0.1	4.4	5.2	PASS
116	5580	-1.1	-0.1	0.0	4.4	5.2	PASS
136	5680	-0.8	-0.4	0.2	4.4	5.2	PASS
140	5700	-0.9	-0.2	-0.1	4.4	5.2	PASS

**NOTE:**

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$ , so the power spectral density limit shall be reduced to  $11 - (11.79 - 6) = 5.2\text{dBm}$ .

### FOR CHAIN 2: CH 52







A D T

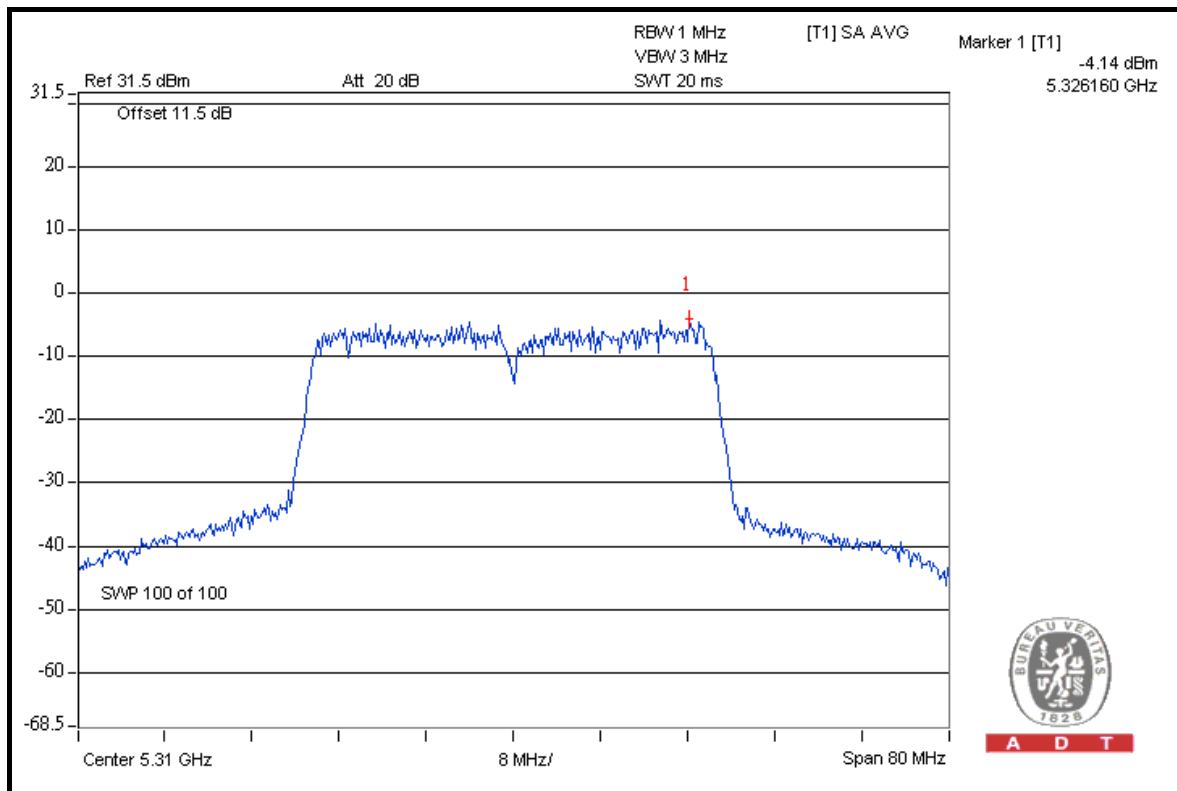
### 802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
54	5270	-5.4	-4.5	-4.3	0.1	5.2	PASS
62	5310	-5.4	-4.4	-4.1	0.2	5.2	PASS
102	5510	-5.4	-4.4	-4.6	0.0	5.2	PASS
110	5550	-5.5	-4.4	-4.4	0.1	5.2	PASS

#### NOTE:

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$ , so the power spectral density limit shall be reduced to  $11 - (11.79 - 6) = 5.2\text{dBm}$ .

### FOR CHAIN 2: CH 62



A D T



A D T

### 4.5.8 TEST RESULTS (A2)

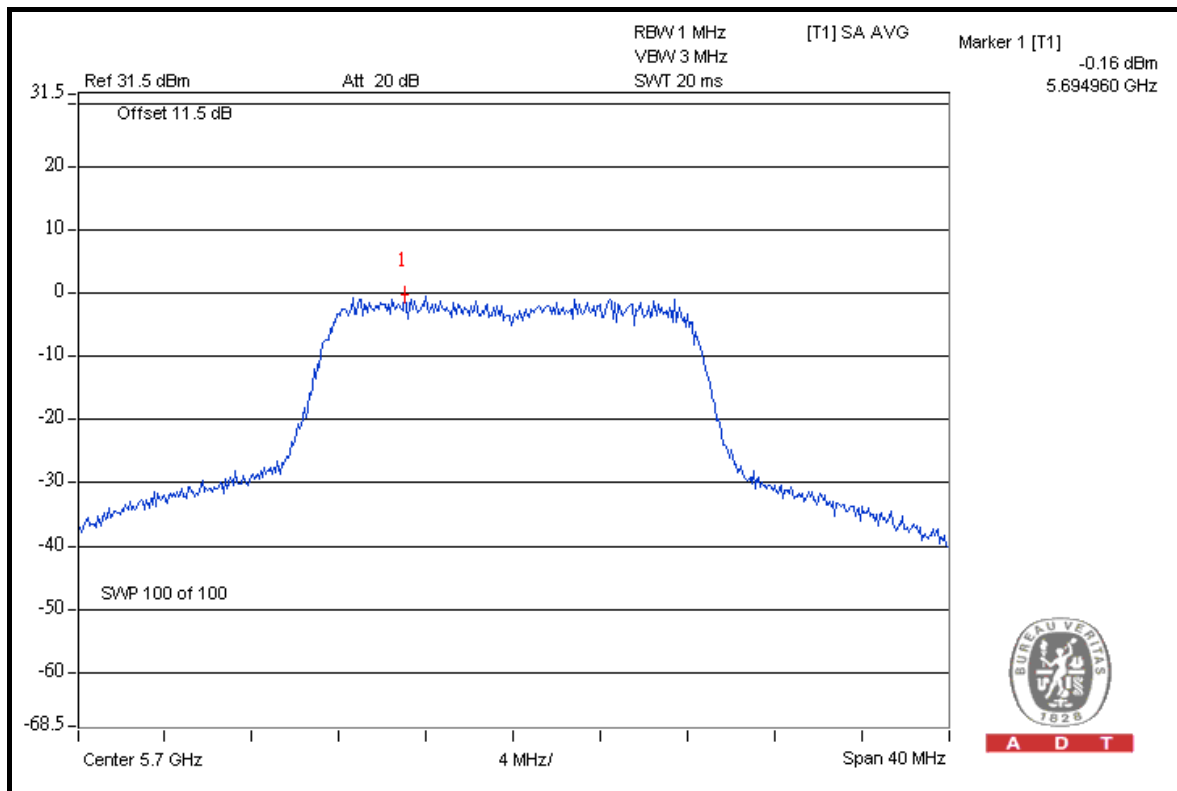
#### 802.11a

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.7	-0.2	-0.3	4.4	5.2	PASS
60	5300	-0.9	-0.3	-0.4	4.3	5.2	PASS
64	5320	-0.7	-0.3	-0.5	4.3	5.2	PASS
100	5500	-0.8	-0.3	-0.4	4.3	5.2	PASS
116	5580	-0.9	-0.3	-0.3	4.3	5.2	PASS
136	5680	-0.8	-0.2	-0.3	4.3	5.2	PASS
140	5700	-0.8	-0.2	-0.4	4.3	5.2	PASS

**NOTE:**

1. Antenna 1 (Model: 5184-6684) is not used for point to point operation.
2. Directional gain =  $7.02\text{dBi} + 10\log(3) = 11.79\text{dBi} > 6\text{dBi}$  , so the power spectral density limit shall be reduced to  $11 - (11.79 - 6) = 5.2\text{dBm}$ .

#### FOR CHAIN 1: CH 140



A D T



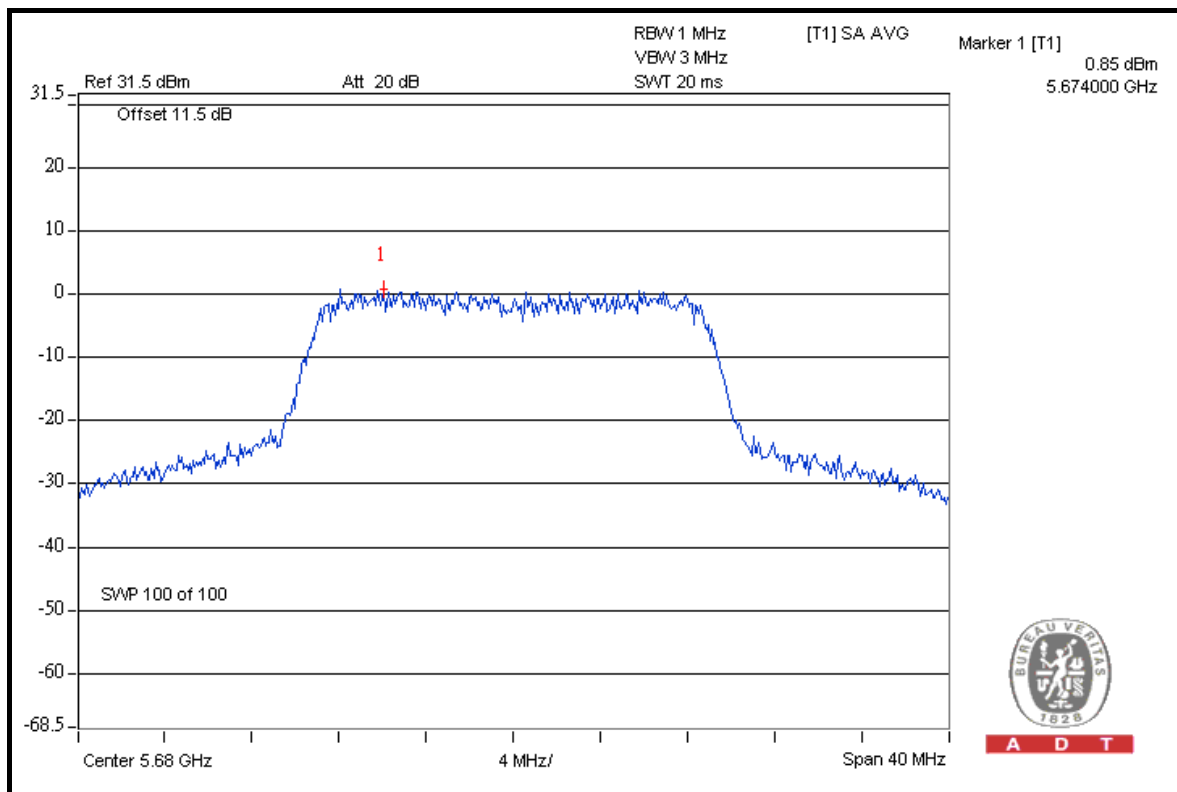
A D T

### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.1	0.3	0.8	5.1	10.0	PASS
60	5300	0.0	0.3	0.8	5.1	10.0	PASS
64	5320	-0.1	0.4	0.7	5.1	10.0	PASS
100	5500	0.0	0.3	0.7	5.1	10.0	PASS
116	5580	-0.1	0.2	0.7	5.0	10.0	PASS
136	5680	0.0	0.3	0.9	5.2	10.0	PASS
140	5700	0.1	0.4	0.8	5.2	10.0	PASS

**NOTE:** According to 15.407 (a) (1) (2) (3), the maximum antenna gain 7.02dBi is higher than 6dBi, so the limit of power spectral density shall be reduced by 1.02dB.

### FOR CHAIN 2: CH 136





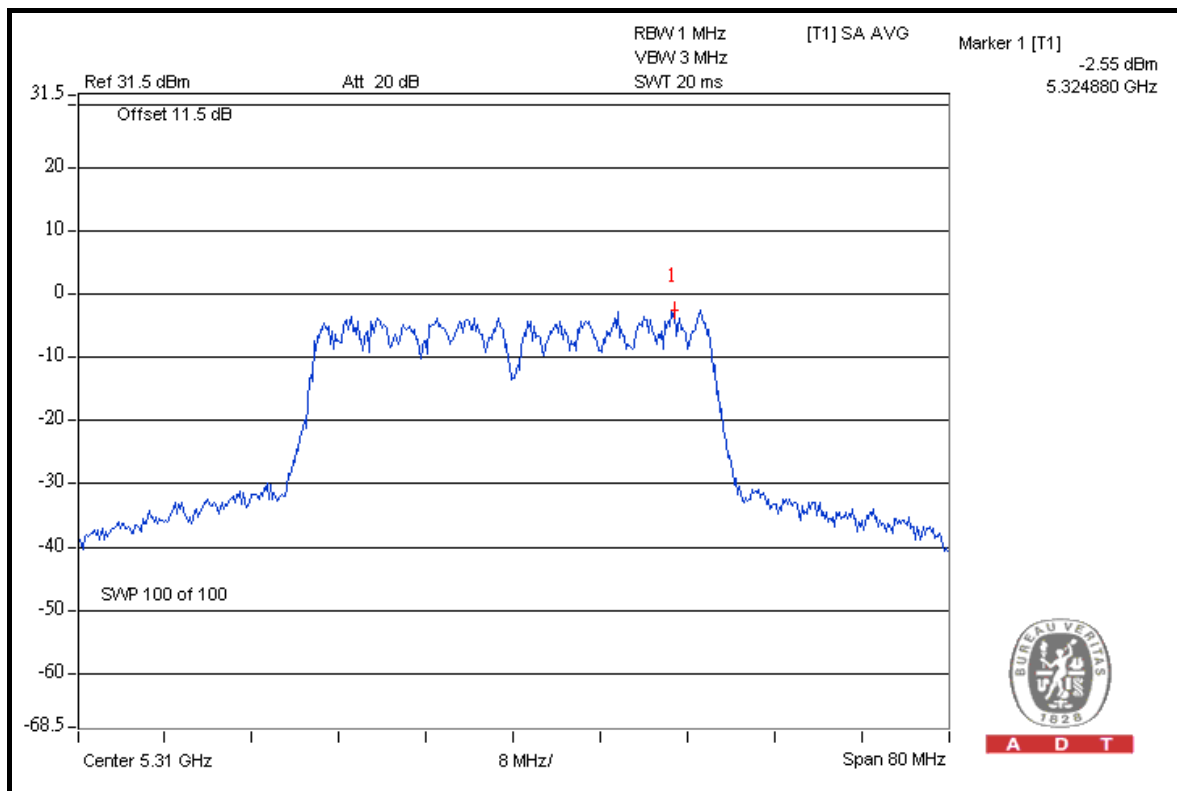
A D T

### 802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
54	5270	-3.4	-2.8	-2.6	1.8	10.0	PASS
62	5310	-3.4	-2.8	-2.6	1.9	10.0	PASS
102	5510	-4.4	-4.0	-3.8	0.7	10.0	PASS
110	5550	-3.1	-2.7	-2.6	2.0	10.0	PASS

**NOTE:** According to 15.407 (a) (1) (2) (3), the maximum antenna gain 7.02dBi is higher than 6dBi, so the limit of power spectral density shall be reduced by 1.02dB.

### FOR CHAIN 2: CH 62



A D T

### 4.5.9 TEST RESULTS (B1)

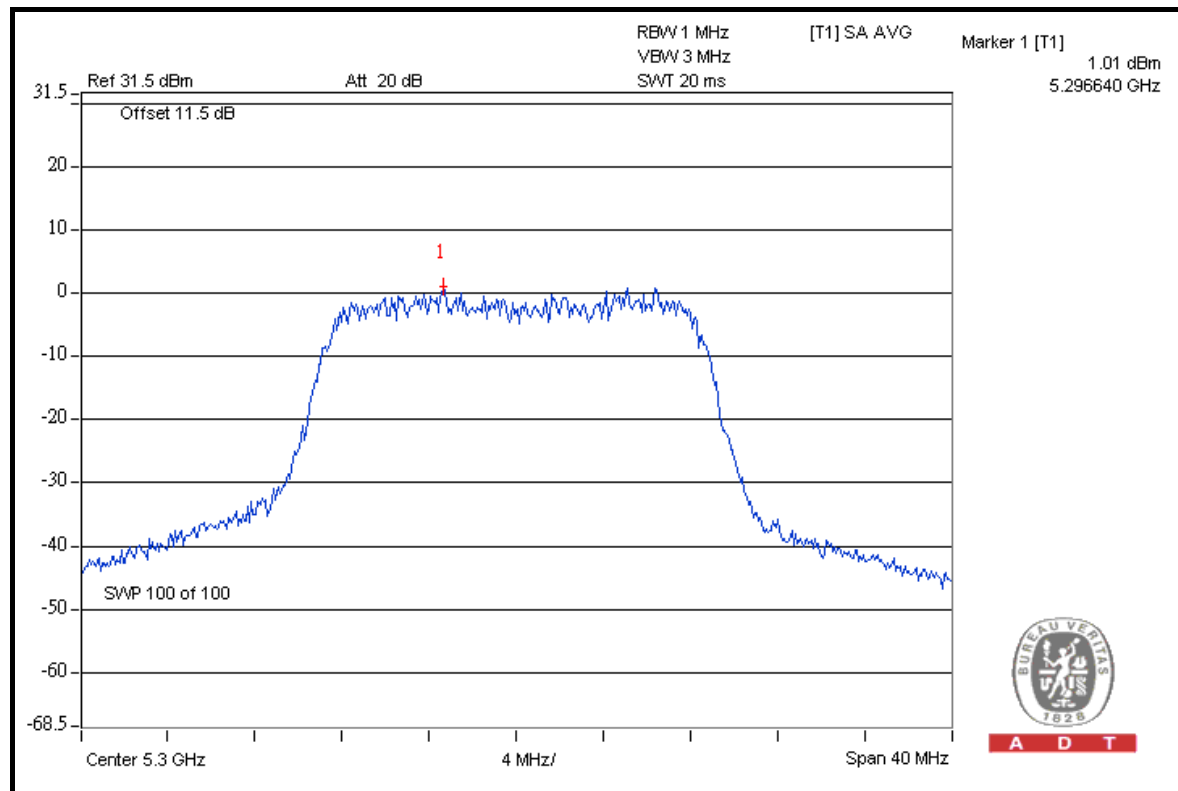
#### 802.11a

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	0.3	0.7	1.0	5.5	8.2	PASS
60	5300	0.0	0.5	1.0	5.3	8.2	PASS
64	5320	0.3	0.7	0.9	5.4	8.2	PASS
100	5500	0.1	0.5	0.8	5.2	8.2	PASS
116	5580	0.2	0.3	0.7	5.2	8.2	PASS
136	5680	-0.1	0.7	0.8	5.2	8.2	PASS
140	5700	-1.2	-0.9	-0.7	3.8	8.2	PASS

**NOTE:**

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain = 4dBi + 10log(3)=8.77dBi > 6dBi , so the power spectral density limit shall be reduced to 11-(8.77-6)=8.2dBm

#### FOR CHAIN 2: CH 60





A D T

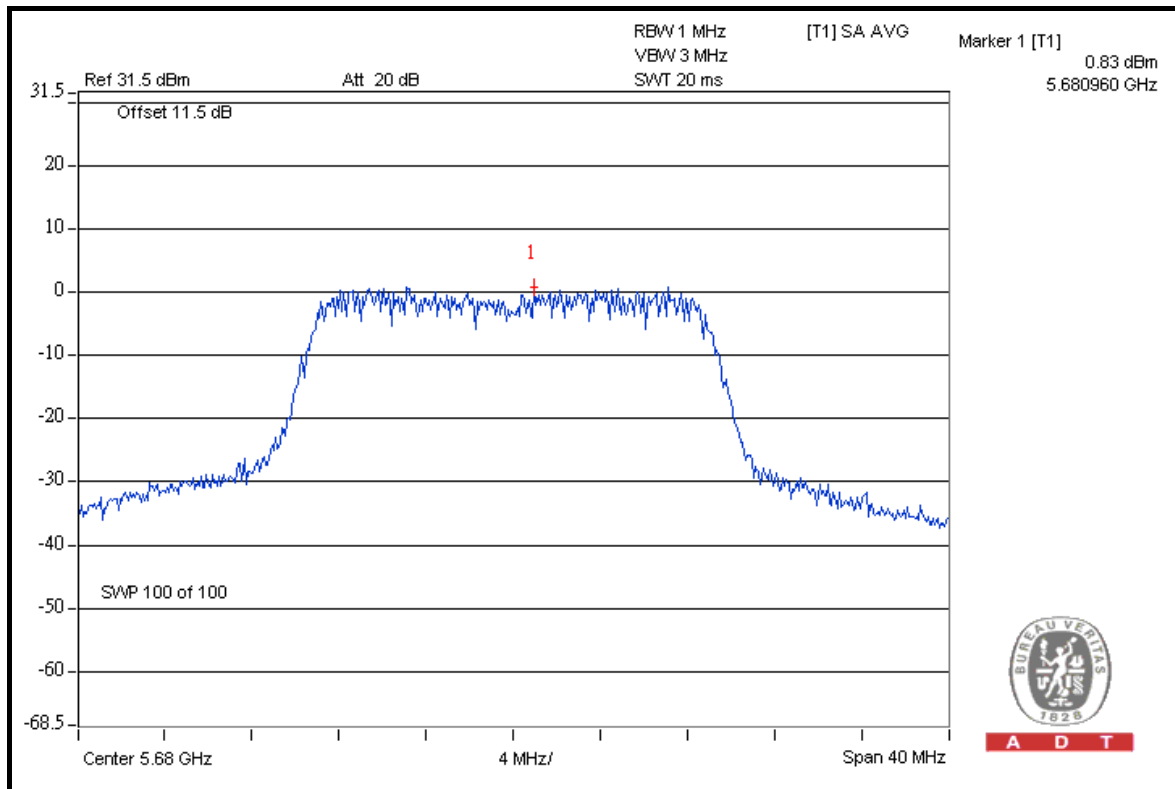
### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.1	0.3	0.8	5.1	8.2	PASS
60	5300	0.1	0.5	0.7	5.2	8.2	PASS
64	5320	-0.4	0.5	0.7	5.1	8.2	PASS
100	5500	-0.1	0.2	0.7	5.1	8.2	PASS
116	5580	-0.1	0.1	0.6	5.0	8.2	PASS
136	5680	-0.1	0.2	0.8	5.1	8.2	PASS
140	5700	-1.3	-0.8	-0.5	3.9	8.2	PASS

**NOTE:**

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain = 4dBi + 10log(3)=8.77dBi > 6dBi , so the power spectral density limit shall be reduced to 11-(8.77-6)=8.2dBm.

### FOR CHAIN 2: CH 136



A D T



A D T

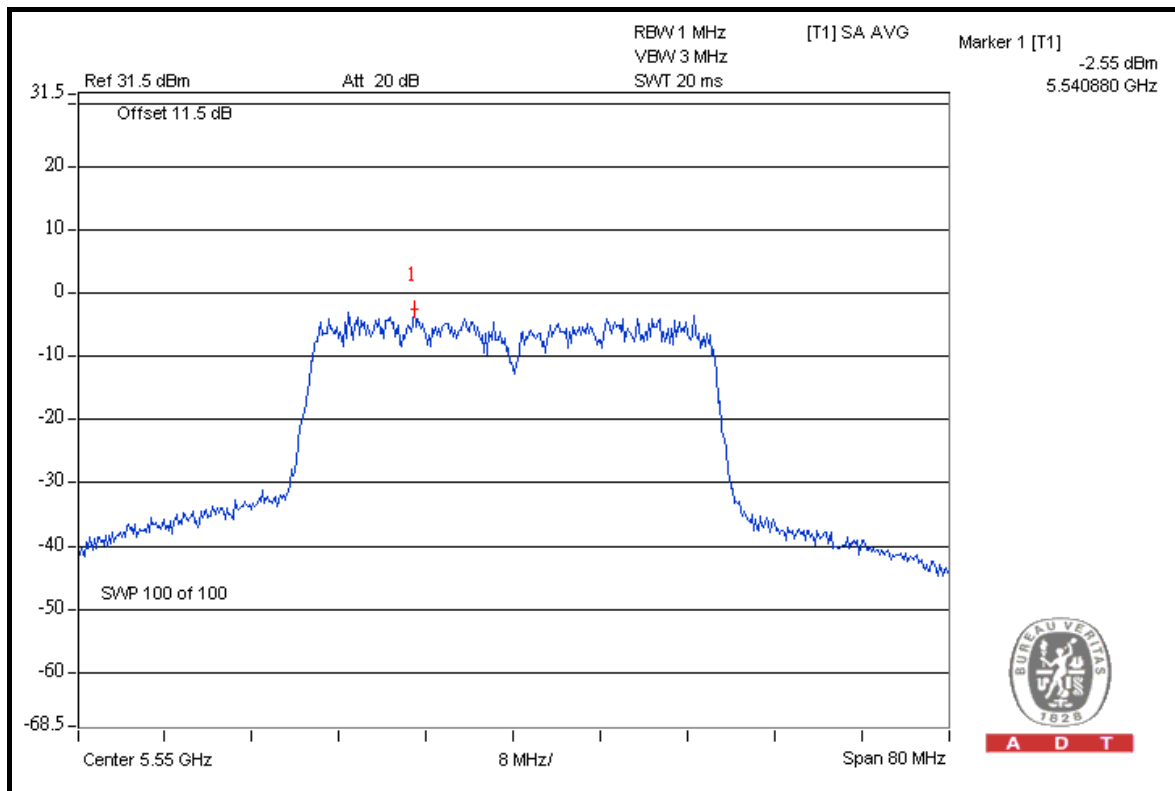
### 802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
54	5270	-3.4	-2.9	-2.6	1.8	8.2	PASS
62	5310	-3.5	-2.9	-2.6	1.8	8.2	PASS
102	5510	-6.9	-6.2	-6.3	-1.7	8.2	PASS
110	5550	-3.3	-2.9	-2.6	1.9	8.2	PASS

#### NOTE:

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain =  $4\text{dBi} + 10\log(3) = 8.77\text{dBi} > 6\text{dBi}$ , so the power spectral density limit shall be reduced to  $11 - (8.77 - 6) = 8.2\text{dBm}$ .

### FOR CHAIN 2: CH 110



### 4.5.10 TEST RESULTS (B2)

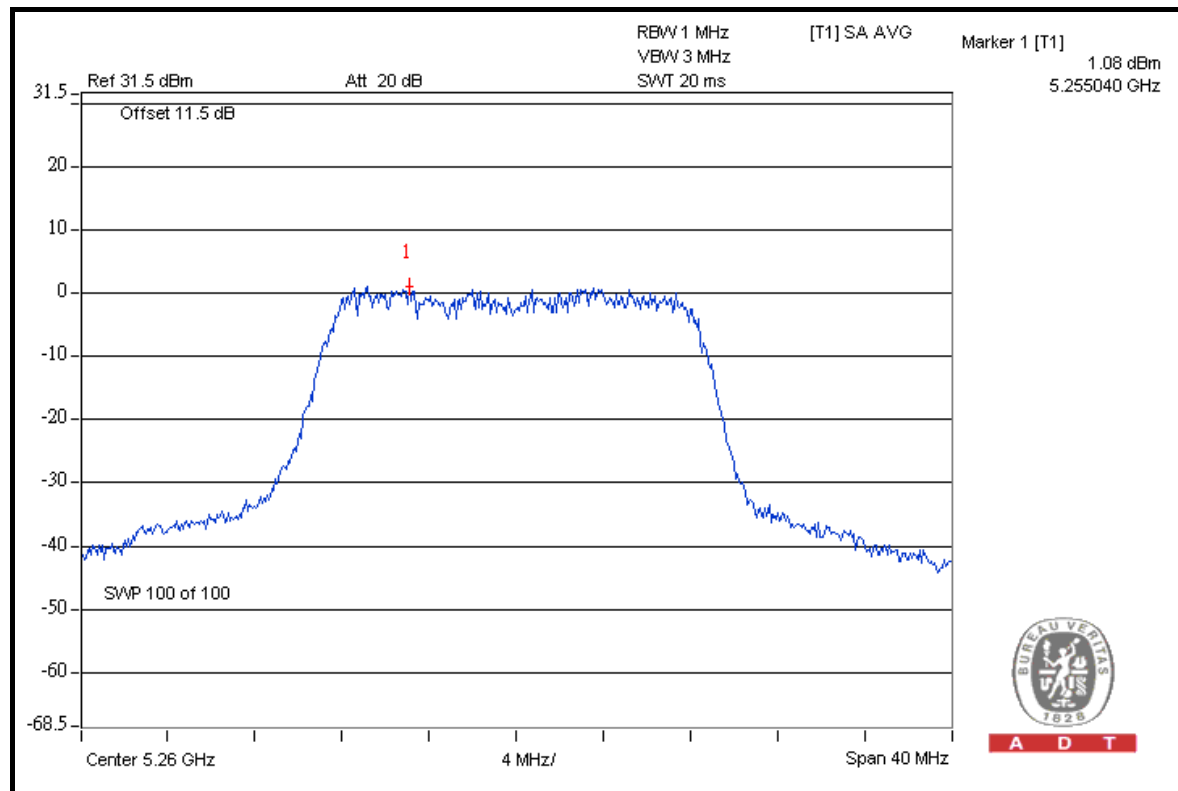
#### 802.11a

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	0.3	0.7	1.1	5.5	8.2	PASS
60	5300	0.2	0.5	1.0	5.4	8.2	PASS
64	5320	0.5	0.4	0.7	5.3	8.2	PASS
100	5500	0.2	0.3	0.9	5.2	8.2	PASS
116	5580	0.0	0.4	0.9	5.2	8.2	PASS
136	5680	0.0	0.4	0.7	5.1	8.2	PASS
140	5700	-1.0	-0.9	-0.8	3.8	8.2	PASS

**NOTE:**

1. Antenna 4 (Model: J9171A) is not used for point to point operation.
2. Directional gain = 4dBi + 10log(3)=8.77dBi > 6dBi , so the power spectral density limit shall be reduced to 11-(8.77-6)=8.23dBm.

#### FOR CHAIN 2: CH 52





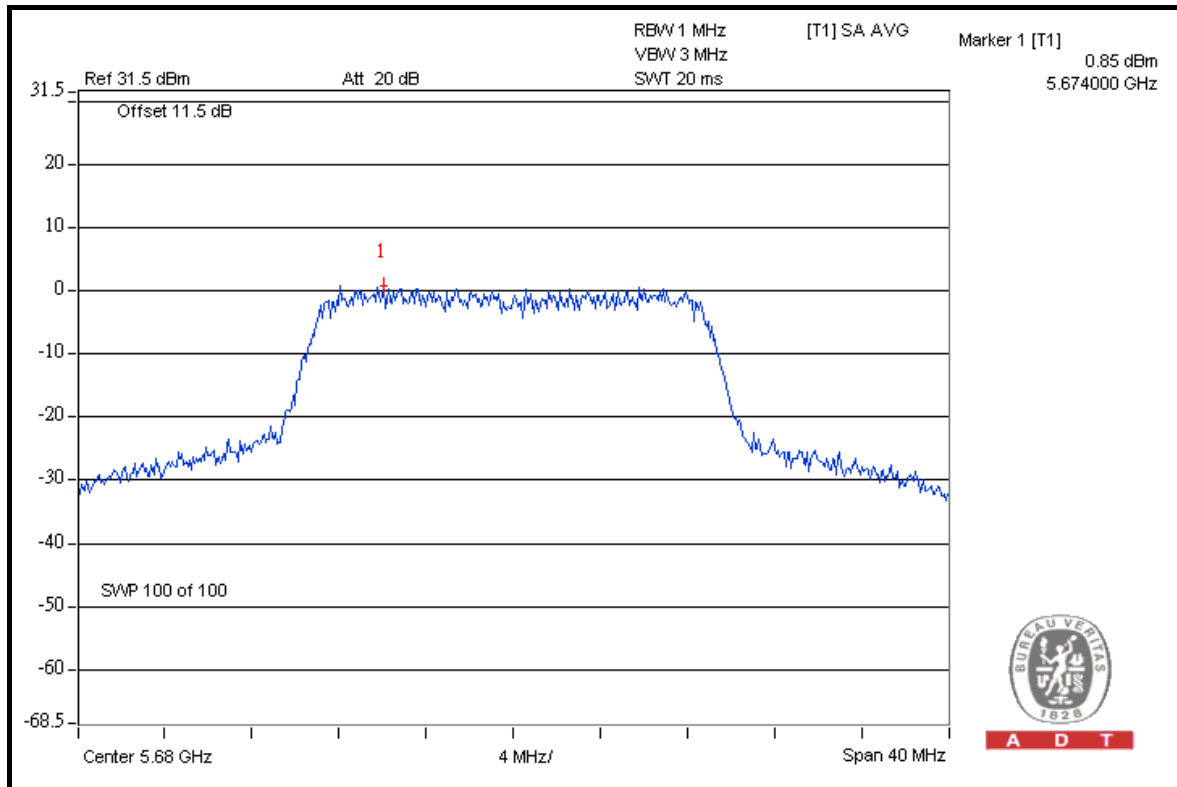


A D T

### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.1	0.3	0.8	5.1	11	PASS
60	5300	0.0	0.3	0.8	5.1	11	PASS
64	5320	-0.1	0.4	0.7	5.1	11	PASS
100	5500	0.0	0.3	0.7	5.1	11	PASS
116	5580	-0.1	0.2	0.7	5.0	11	PASS
136	5680	0.0	0.3	0.9	5.2	11	PASS
140	5700	-1.5	-0.7	-0.5	3.9	11	PASS

### FOR CHAIN 2: CH 136



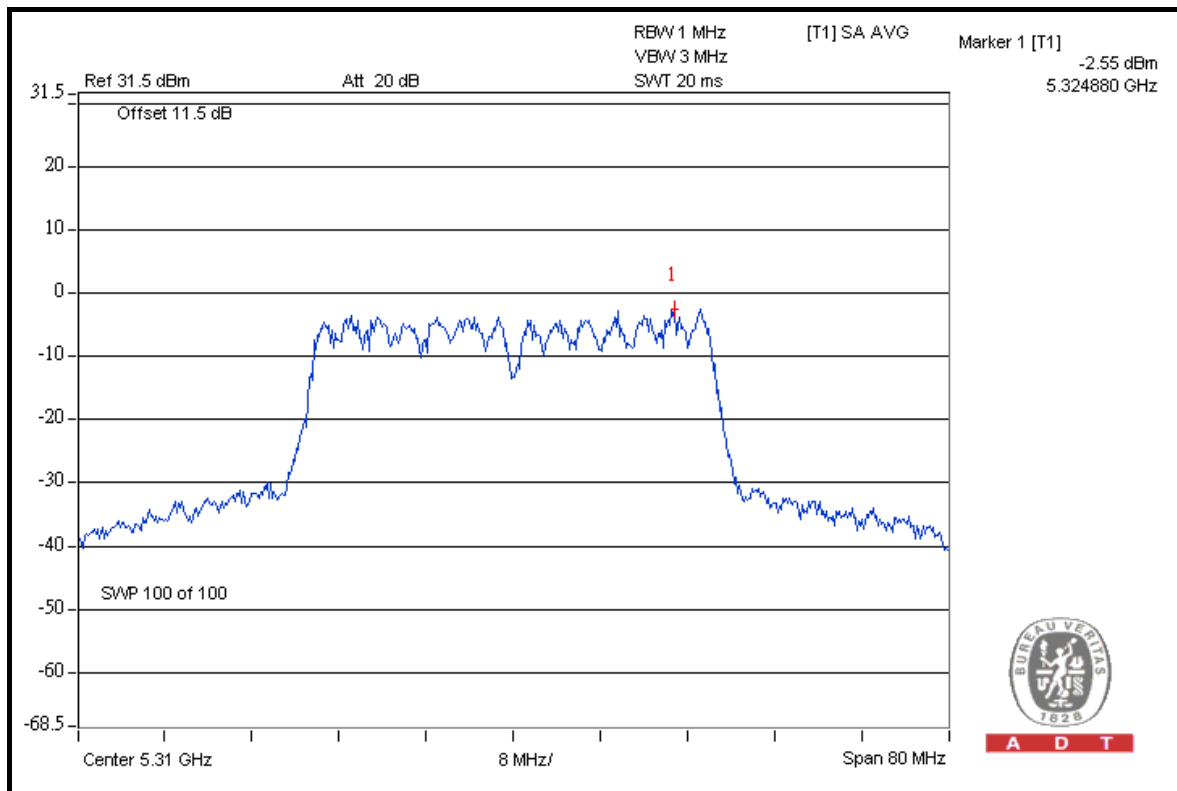


A D T

### 802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
54	5270	-3.4	-2.8	-2.6	1.8	11	PASS
62	5310	-3.4	-2.8	-2.6	1.9	11	PASS
102	5510	-6.7	-6.1	-6.3	-1.6	11	PASS
110	5550	-3.1	-2.7	-2.6	2.0	11	PASS

### FOR CHAIN 2: CH 62





A D T

### 4.5.11 TEST RESULTS (C1)

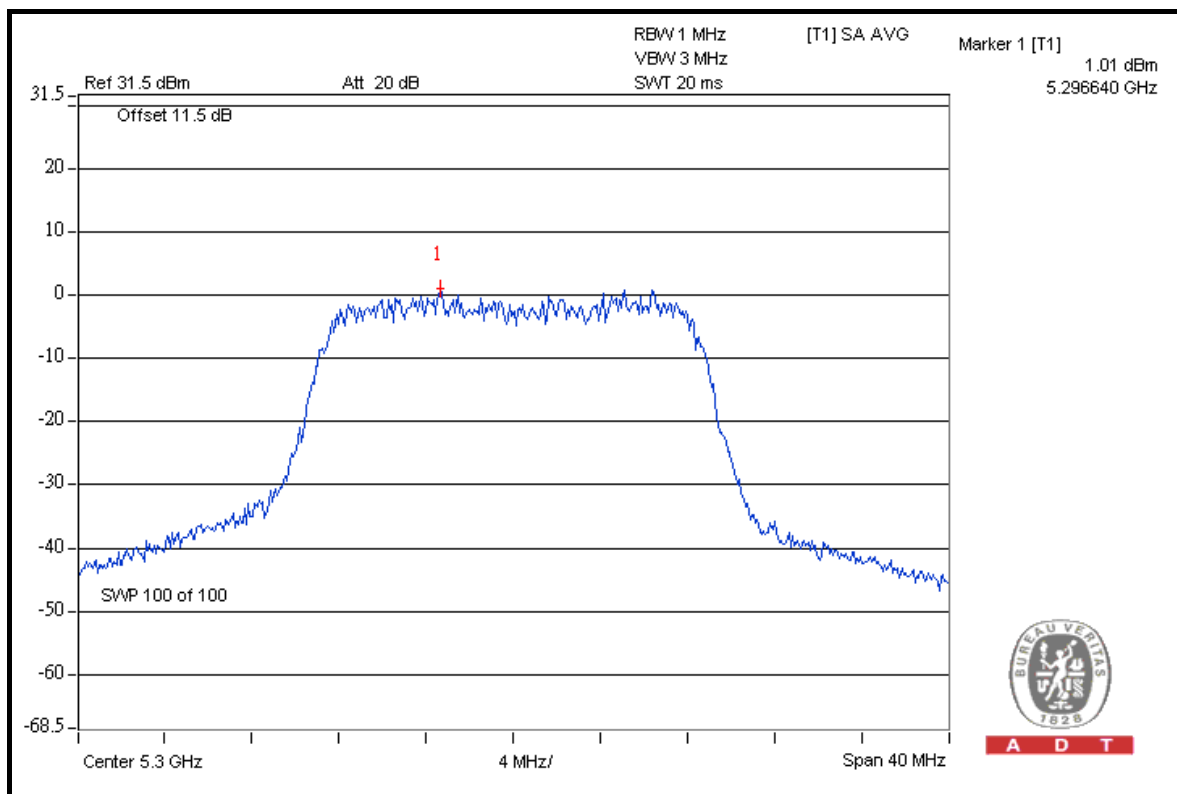
#### 802.11a

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	0.3	0.7	1.0	5.5	10.2	PASS
60	5300	0.0	0.5	1.0	5.3	10.2	PASS
64	5320	0.3	0.7	0.9	5.4	10.2	PASS
100	5500	0.1	0.5	0.8	5.2	10.2	PASS
116	5580	0.2	0.3	0.7	5.2	10.2	PASS
136	5680	-0.1	0.7	0.8	5.2	10.2	PASS
140	5700	0.3	0.7	0.8	5.4	10.2	PASS

**NOTE:**

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain = 2dBi + 10log(3)=6.77dBi > 6dBi, so the power spectral density limit shall be reduced to 11-(6.77-6)=10.2dBm.

#### FOR CHAIN 2: CH 60



A D T



A D T

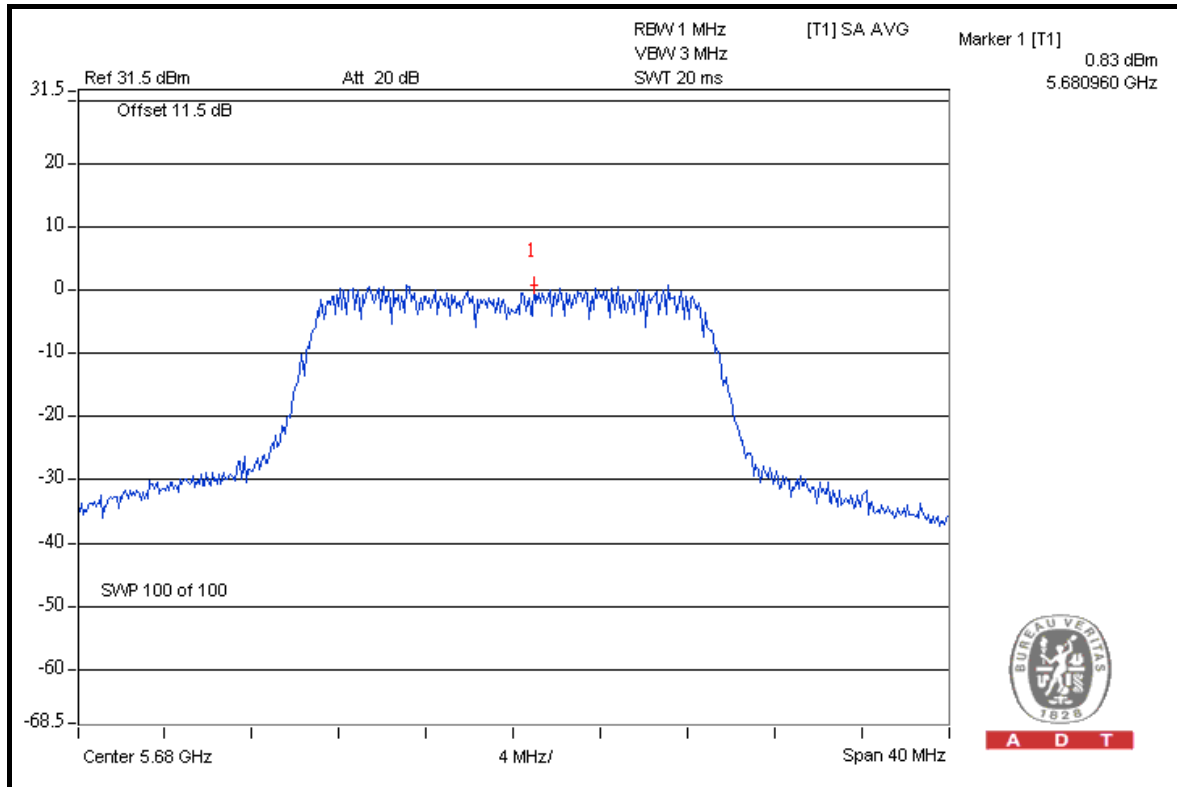
### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.1	0.3	0.8	5.1	10.2	PASS
60	5300	0.1	0.5	0.7	5.2	10.2	PASS
64	5320	-0.4	0.5	0.7	5.1	10.2	PASS
100	5500	-0.1	0.2	0.7	5.1	10.2	PASS
116	5580	-0.1	0.1	0.6	5.0	10.2	PASS
136	5680	-0.1	0.2	0.8	5.1	10.2	PASS
140	5700	-0.2	0.2	0.7	5.0	10.2	PASS

**NOTE:**

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain =  $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$ , so the power spectral density limit shall be reduced to  $11 - (6.77 - 6) = 10.23\text{dBm}$ .

### FOR CHAIN 2: CH 136





A D T

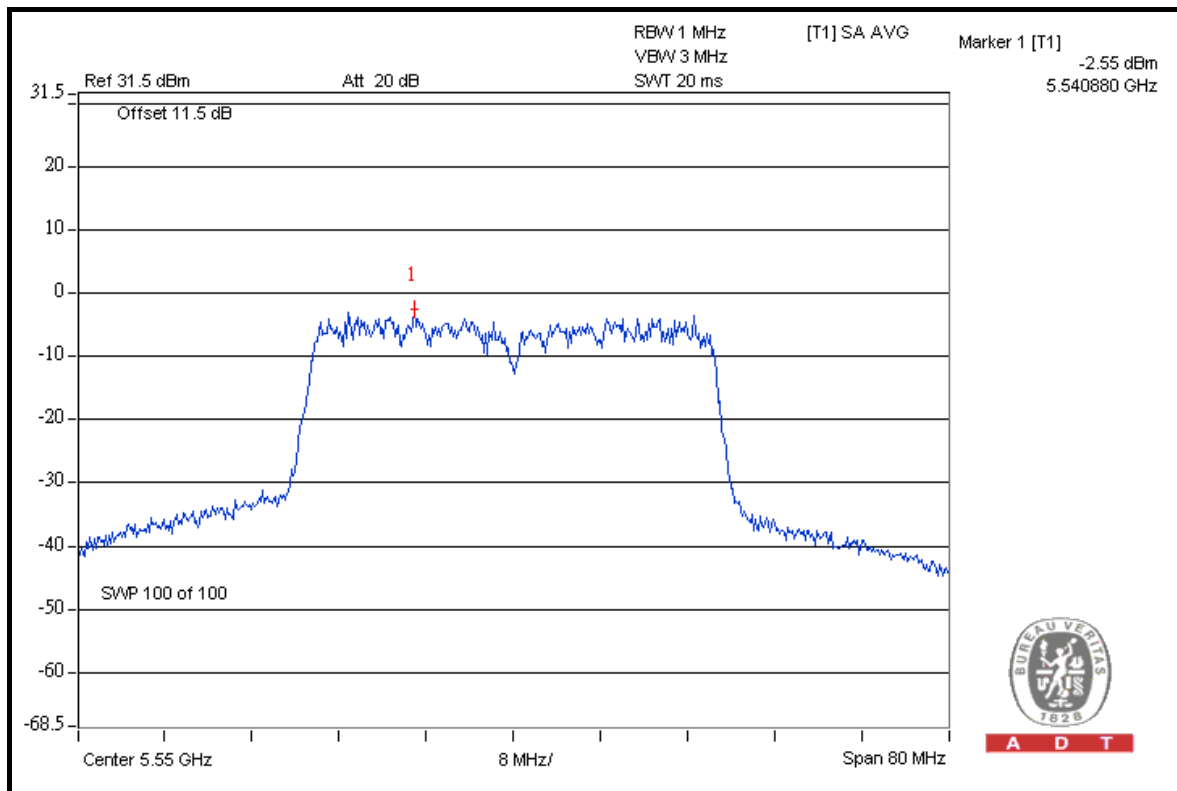
### 802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
54	5270	-3.4	-2.9	-2.6	1.8	10.2	PASS
62	5310	-5.4	-4.4	-4.1	0.2	10.2	PASS
102	5510	-6.6	-5.7	-5.8	-1.3	10.2	PASS
110	5550	-3.3	-2.9	-2.6	1.9	10.2	PASS

#### NOTE:

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain =  $2\text{dBi} + 10\log(3) = 6.77\text{dBi} > 6\text{dBi}$ , so the power spectral density limit shall be reduced to  $11 - (6.77 - 6) = 10.2\text{dBm}$ .

### FOR CHAIN 2: CH 110





A D T

### 4.5.12 TEST RESULTS (C2)

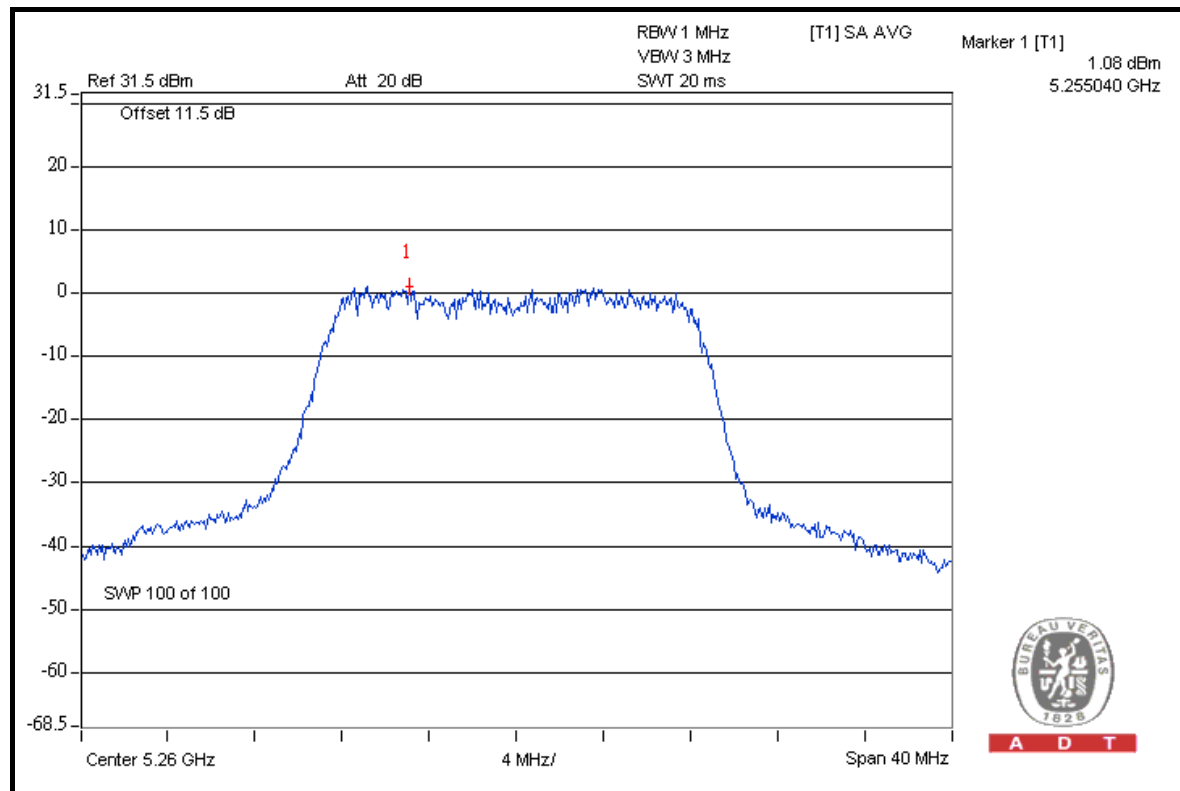
#### 802.11a

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	0.3	0.7	1.1	5.5	10.2	PASS
60	5300	0.2	0.5	1.0	5.4	10.2	PASS
64	5320	0.5	0.4	0.7	5.3	10.2	PASS
100	5500	0.2	0.3	0.9	5.2	10.2	PASS
116	5580	0.0	0.4	0.9	5.2	10.2	PASS
136	5680	0.0	0.4	0.7	5.1	10.2	PASS
140	5700	0.3	0.5	0.7	5.3	10.2	PASS

**NOTE:**

1. Antenna 5 (Model: J9659A) is not used for point to point operation.
2. Directional gain = 2dBi + 10log(3)=6.77dBi > 6dBi, so the power spectral density limit shall be reduced to 11-(6.77-6)=10.2dBm.

#### FOR CHAIN 2: CH 52



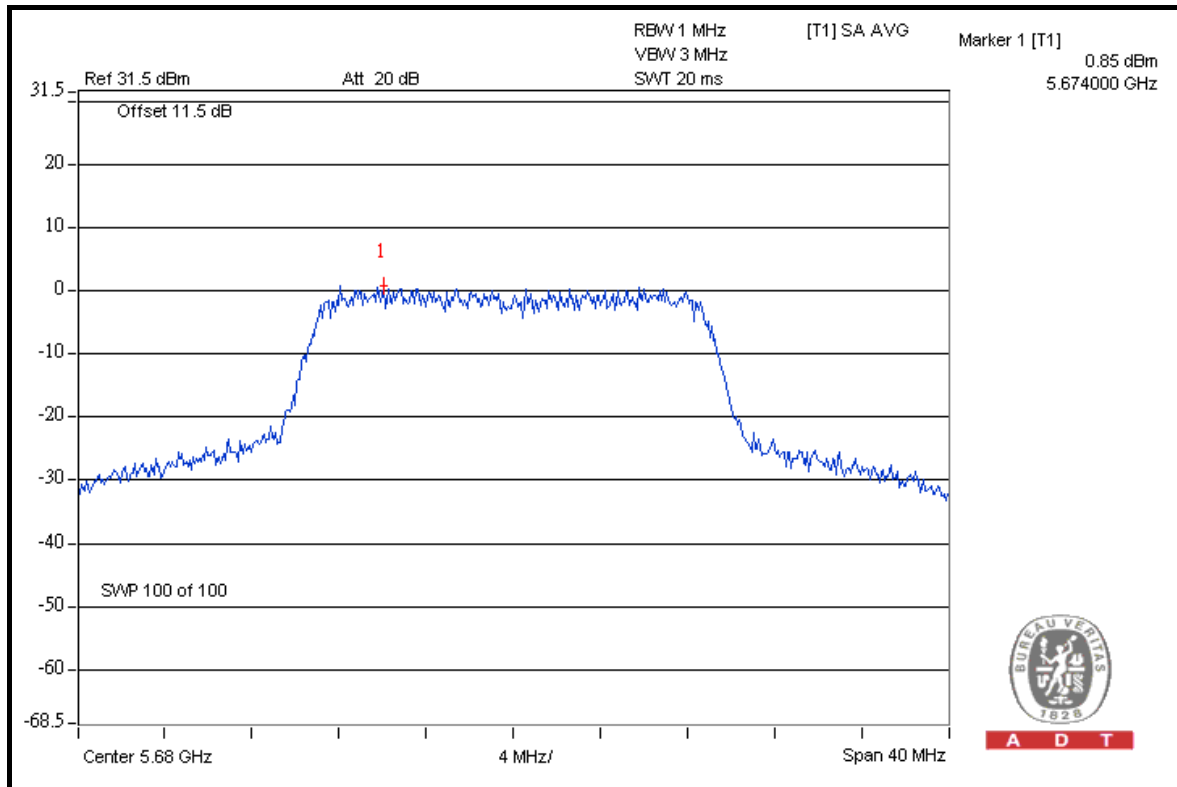


A D T

### 802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
52	5260	-0.1	0.3	0.8	5.1	11	PASS
60	5300	0.0	0.3	0.8	5.1	11	PASS
64	5320	-0.1	0.4	0.7	5.1	11	PASS
100	5500	0.0	0.3	0.7	5.1	11	PASS
116	5580	-0.1	0.2	0.7	5.0	11	PASS
136	5680	0.0	0.3	0.9	5.2	11	PASS
140	5700	0.1	0.4	0.8	5.2	11	PASS

### FOR CHAIN 2: CH 136



A D T

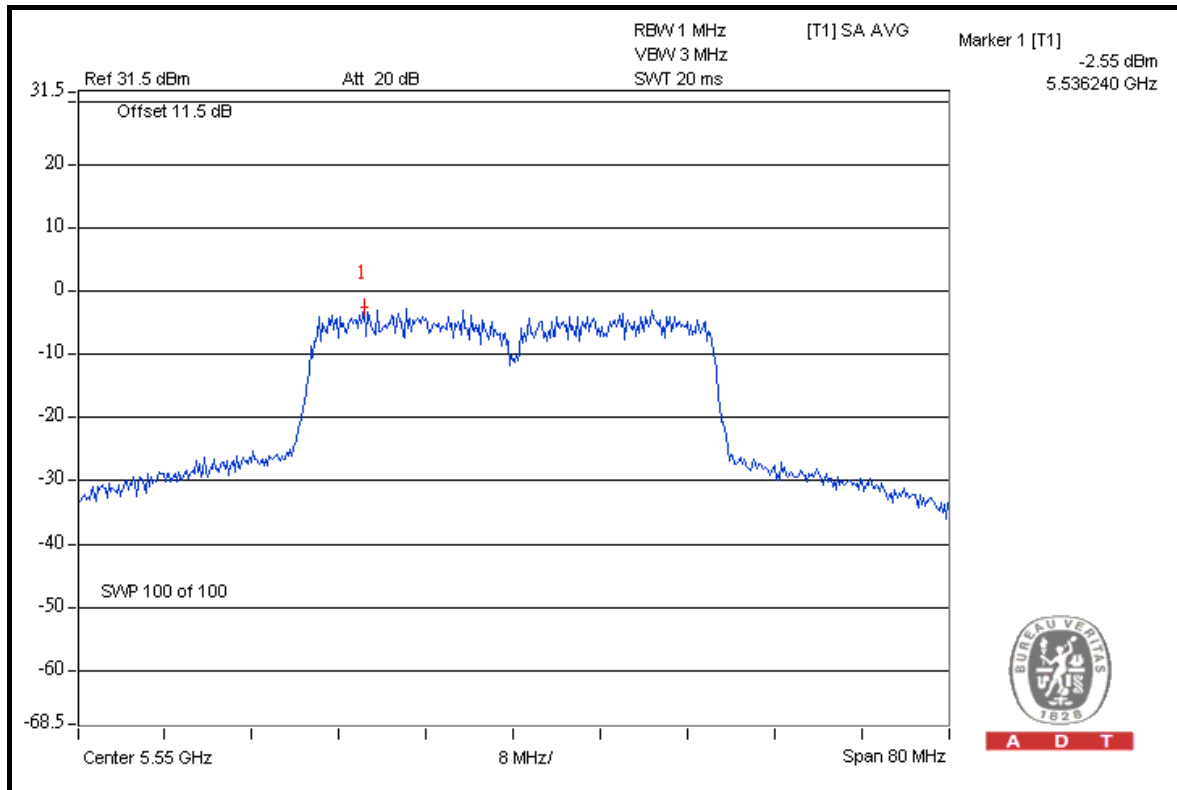


A D T

### 802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)			TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2			
54	5270	-3.4	-2.8	-2.6	1.8	11	PASS
62	5310	-4.8	-4.3	-4.1	0.4	11	PASS
102	5510	-6.3	-5.6	-5.5	-1.1	11	PASS
110	5550	-3.1	-2.7	-2.6	2.0	11	PASS

### FOR CHAIN 2: CH 110





## 4.6 FREQUENCY STABILITY

### 4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within the band of operation frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

### 4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSP40	100039	Jan. 11, 2010	Jan. 10, 2011
WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER	TH-4S-C	W981030	Jun. 28, 2010	Jun. 27, 2011

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

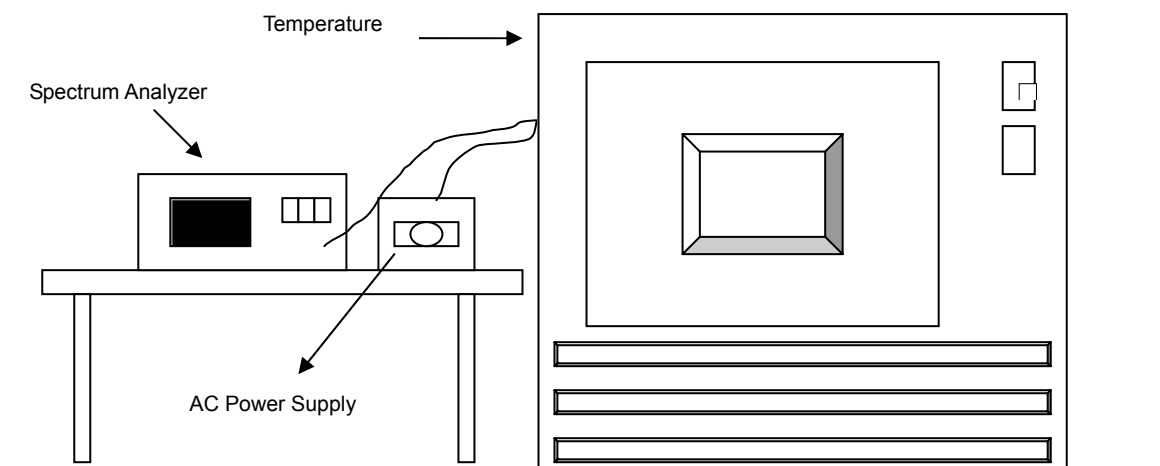
### 4.6.3 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

#### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.6.5 TEST SETUP



#### 4.6.6 EUT OPERATING CONDITION

Same as Item 4.1.6.

#### 4.6.7 TEST RESULTS (A1)

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	3.3	5320.014817	2.785	5320.014532	2.732	5320.014797	2.781	5320.014754	2.773
40	3.3	5320.014280	2.684	5320.013891	2.611	5320.013809	2.596	5320.013672	2.570
30	3.3	5319.996450	-0.667	5319.996305	-0.695	5319.996692	-0.622	5319.996019	-0.748
20	3.3	5319.976803	-4.360	5319.976986	-4.326	5319.977215	-4.283	5319.977060	-4.312
10	3.3	5320.007447	1.400	5320.007144	1.343	5320.007389	1.389	5320.007147	1.343
0	3.3	5320.007310	1.374	5320.007181	1.350	5320.007469	1.404	5320.006941	1.305
-10	3.3	5319.972150	-5.235	5319.972255	-5.215	5319.972707	-5.130	5319.972627	-5.145
-20	3.3	5320.020381	3.831	5320.020408	3.836	5320.020938	3.936	5320.020152	3.788
-30	3.3	5319.991228	-1.649	5319.991675	-1.565	5319.991611	-1.577	5319.990929	-1.705

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	2.8	5319.976757	-4.369	5319.976697	-4.380	5319.977067	-4.311	5319.977150	-4.295
	3.3	5319.976803	-4.360	5319.976986	-4.326	5319.977215	-4.283	5319.977060	-4.312
	3.8	5319.977054	-4.313	5319.976965	-4.330	5319.977190	-4.288	5319.976610	-4.397

#### 4.6.8 TEST RESULTS (A2)

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	3.3	5320.015006	2.821	5320.014763	2.775	5320.015106	2.839	5320.015167	2.851
40	3.3	5320.014600	2.744	5320.014064	2.644	5320.013887	2.610	5320.014800	2.782
30	3.3	5319.996488	-0.660	5319.996371	-0.682	5319.996889	-0.585	5319.996485	-0.661
20	3.3	5319.976649	-4.389	5319.976782	-4.364	5319.976831	-4.355	5319.976908	-4.341
10	3.3	5320.007703	1.448	5320.007469	1.404	5320.007716	1.450	5320.007724	1.452
0	3.3	5320.007162	1.346	5320.007285	1.369	5320.007278	1.368	5320.007855	1.477
-10	3.3	5319.972297	-5.207	5319.972184	-5.229	5319.972838	-5.106	5319.972246	-5.217
-20	3.3	5320.020724	3.895	5320.020386	3.832	5320.020742	3.899	5320.020006	3.761
-30	3.3	5319.990827	-1.724	5319.991446	-1.608	5319.991704	-1.559	5319.990882	-1.714

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	2.8	5319.976436	-4.429	5319.976863	-4.349	5319.976777	-4.365	5319.976896	-4.343
	3.3	5319.976649	-4.389	5319.976782	-4.364	5319.976831	-4.355	5319.976908	-4.341
	3.8	5319.976922	-4.338	5319.976382	-4.439	5319.976596	-4.399	5319.976464	-4.424

#### 4.6.9 TEST RESULTS (B1)

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	3.3	5320.015484	2.911	5320.014702	2.764	5320.015576	2.928	5320.015444	2.903
40	3.3	5320.014917	2.804	5320.014500	2.726	5320.014837	2.789	5320.014847	2.791
30	3.3	5319.996183	-0.717	5319.996516	-0.655	5319.996192	-0.716	5319.996883	-0.586
20	3.3	5319.976700	-4.380	5319.976939	-4.335	5319.977183	-4.289	5319.976760	-4.368
10	3.3	5320.007599	1.428	5320.007955	1.495	5320.007864	1.478	5320.007805	1.467
0	3.3	5320.007146	1.343	5320.007619	1.432	5320.007744	1.456	5320.007359	1.383
-10	3.3	5319.971887	-5.284	5319.972418	-5.185	5319.972452	-5.178	5319.972204	-5.225
-20	3.3	5320.020976	3.943	5320.020074	3.773	5320.020725	3.896	5320.020256	3.808
-30	3.3	5319.991739	-1.553	5319.991484	-1.601	5319.991728	-1.555	5319.991715	-1.557

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	2.8	5319.976532	-4.411	5319.977091	-4.306	5319.976816	-4.358	5319.976545	-4.409
	3.3	5319.976700	-4.380	5319.976939	-4.335	5319.977183	-4.289	5319.976760	-4.368
	3.8	5319.976876	-4.347	5319.977120	-4.301	5319.977244	-4.277	5319.976736	-4.373



#### 4.6.10 TEST RESULTS (B2)

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	3.3	5320.015314	2.879	5320.015732	2.957	5320.015052	2.829	5320.014957	2.811
40	3.3	5320.014255	2.680	5320.014841	2.790	5320.014922	2.805	5320.014286	2.685
30	3.3	5319.997032	-0.558	5319.996742	-0.612	5319.996817	-0.598	5319.996428	-0.671
20	3.3	5319.977001	-4.323	5319.976563	-4.405	5319.976773	-4.366	5319.976935	-4.336
10	3.3	5320.007649	1.438	5320.007921	1.489	5320.007476	1.405	5320.007747	1.456
0	3.3	5320.007379	1.387	5320.007065	1.328	5320.006900	1.297	5320.007545	1.418
-10	3.3	5319.972243	-5.217	5319.972009	-5.261	5319.971897	-5.283	5319.972151	-5.235
-20	3.3	5320.020569	3.866	5320.020742	3.899	5320.020526	3.858	5320.020857	3.920
-30	3.3	5319.990796	-1.730	5319.990842	-1.721	5319.990882	-1.714	5319.990894	-1.712

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	2.8	5319.977462	-4.236	5319.977604	-4.210	5319.977392	-4.250	5319.977763	-4.180
	3.3	5319.977001	-4.323	5319.976563	-4.405	5319.976773	-4.366	5319.976935	-4.336
	3.8	5319.977018	-4.320	5319.977059	-4.312	5319.976806	-4.360	5319.976956	-4.332

#### 4.6.11 TEST RESULTS (C1)

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	3.3	5320.015893	2.987	5320.016221	3.049	5320.016149	3.036	5320.015089	2.836
40	3.3	5320.014717	2.766	5320.014884	2.798	5320.015621	2.936	5320.015436	2.902
30	3.3	5319.996467	-0.664	5319.996380	-0.680	5319.996293	-0.697	5319.996091	-0.735
20	3.3	5319.977071	-4.310	5319.976944	-4.334	5319.977301	-4.267	5319.976702	-4.379
10	3.3	5320.007708	1.449	5320.007765	1.460	5320.008314	1.563	5320.007599	1.428
0	3.3	5320.007710	1.449	5320.007231	1.359	5320.007336	1.379	5320.007332	1.378
-10	3.3	5319.972457	-5.177	5319.972031	-5.257	5319.972040	-5.256	5319.971670	-5.325
-20	3.3	5320.021453	4.033	5320.021155	3.977	5320.021100	3.966	5320.020680	3.887
-30	3.3	5319.992120	-1.481	5319.992191	-1.468	5319.991431	-1.611	5319.991951	-1.513

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	2.8	5319.977469	-4.235	5319.977555	-4.219	5319.977486	-4.232	5319.977802	-4.173
	3.3	5319.977071	-4.310	5319.976944	-4.334	5319.977301	-4.267	5319.976702	-4.379
	3.8	5319.977272	-4.272	5319.977197	-4.286	5319.977317	-4.264	5319.977474	-4.234

#### 4.6.12 TEST RESULTS (C2)

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	3.3	5320.015100	2.838	5320.015452	2.905	5320.015105	2.839	5320.015550	2.923
40	3.3	5320.014590	2.742	5320.014975	2.815	5320.014801	2.782	5320.014130	2.656
30	3.3	5319.996756	-0.610	5319.997705	-0.431	5319.997443	-0.481	5319.997249	-0.517
20	3.3	5319.976939	-4.335	5319.976876	-4.347	5319.977116	-4.302	5319.977116	-4.302
10	3.3	5320.007583	1.425	5320.007553	1.420	5320.007654	1.439	5320.007630	1.434
0	3.3	5320.007337	1.379	5320.007756	1.458	5320.007528	1.415	5320.006936	1.304
-10	3.3	5319.972532	-5.163	5319.972437	-5.181	5319.972516	-5.166	5319.972654	-5.140
-20	3.3	5320.021122	3.970	5320.020374	3.830	5320.021066	3.960	5320.020699	3.891
-30	3.3	5319.990589	-1.769	5319.990965	-1.698	5319.990885	-1.713	5319.990479	-1.790

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	2.8	5319.976881	-4.346	5319.976923	-4.338	5319.976985	-4.326	5319.976745	-4.371
	3.3	5319.976939	-4.335	5319.976876	-4.347	5319.977116	-4.302	5319.977116	-4.302
	3.8	5319.976826	-4.356	5319.976703	-4.379	5319.976596	-4.399	5319.976721	-4.376



## 4.7 BAND EDGES MEASUREMENT

### 4.7.1 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100033	Jul. 29, 2010	Jul. 28, 2011
Spectrum Analyzer Agilent	E4446A	MY48250266	Aug. 11, 2010	Aug. 10, 2011
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 27, 2010	Apr. 26, 2011
HORN Antenna SCHWARZBECK	9120D	9120D-405	Feb. 03, 2010	Feb. 02, 2011
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170190	Jan. 04, 2010	Jan. 03, 2011
Preamplifier Agilent	8447D	2944A08119	Jun. 23, 2010	Jun. 22, 2011
Preamplifier Agilent	8449B	3008A01922	Sep. 24, 2010	Sep. 23, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238141/4	May 14, 2010	May 13, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	12738/6	May 14, 2010	May 13, 2011
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	07026401	Aug. 25, 2010	Aug. 24, 2011

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

#### 4.7.2 TEST PROCEDURE

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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. Set both RBW and VBW of spectrum analyzer to 1MHz and 3MHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

**NOTE:** The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz for Average detection (AV) at frequency above 1GHz

#### 4.7.3 EUT OPERATING CONDITION

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

#### 4.7.4 TEST RESULTS (A1)

For signals in the restricted bands above and below the 5.26 to 5.32GHz, 5.50 to 5.70GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

#### FOR 5260-5320MHz BAND: 802.11a

##### RESTRICT BAND (4500 ~ 5150 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	114.7	51.63	63.07	74.00
5260.00 (AV)	102.8	53.53	49.27	54.00

##### RESTRICT BAND (5350 ~ 5460 MHz)

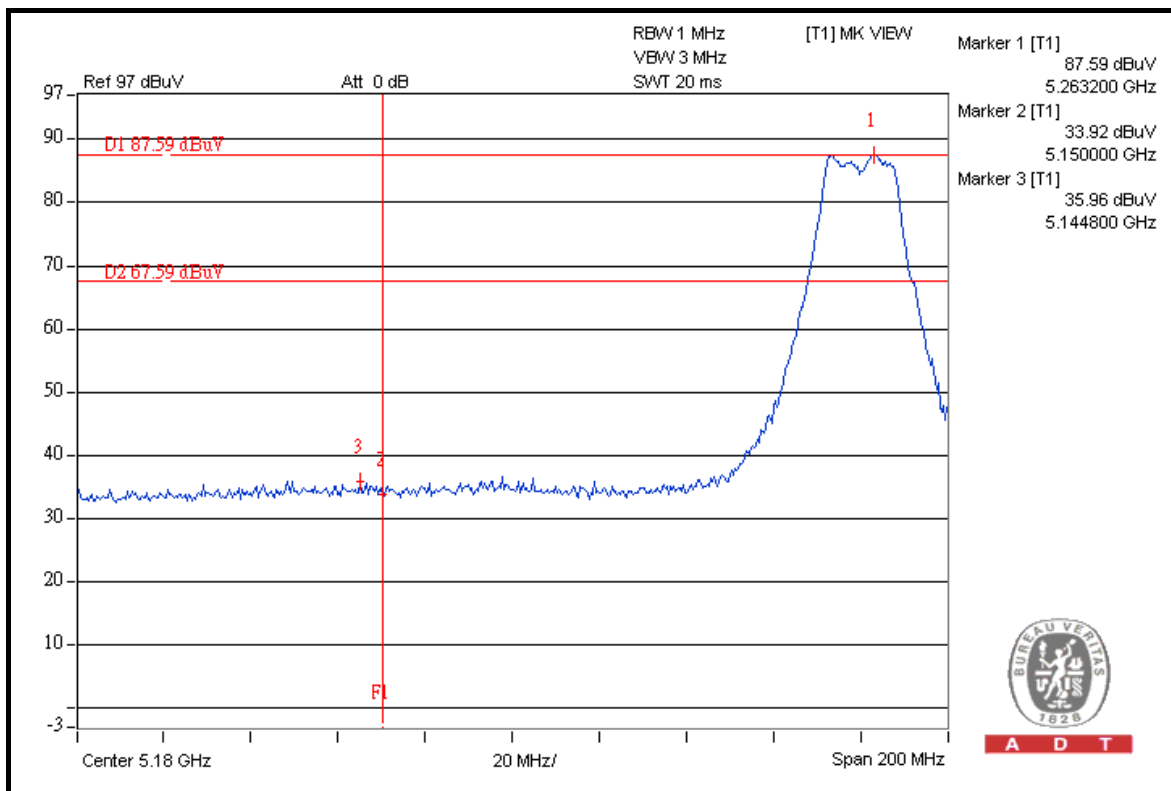
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	113.7	51.95	61.75	74.00
5320.00 (AV)	101.8	51.97	49.83	54.00

#### NOTE:

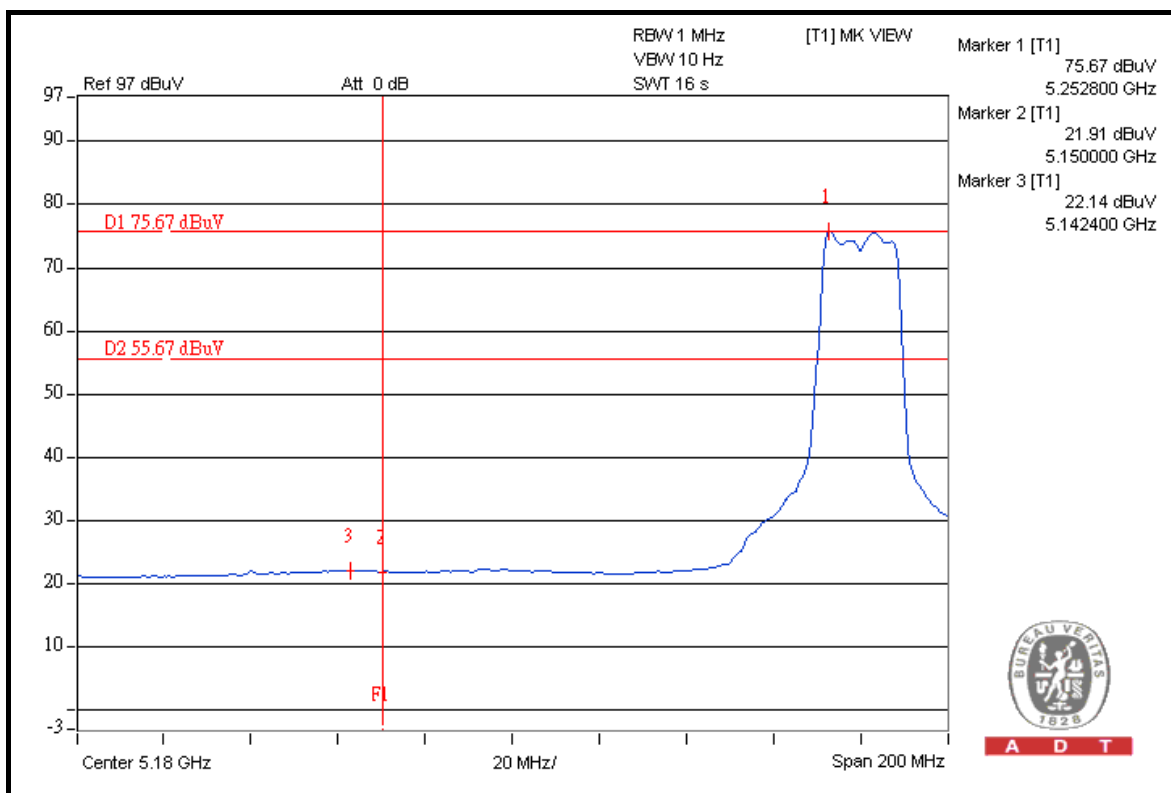
- Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
- Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



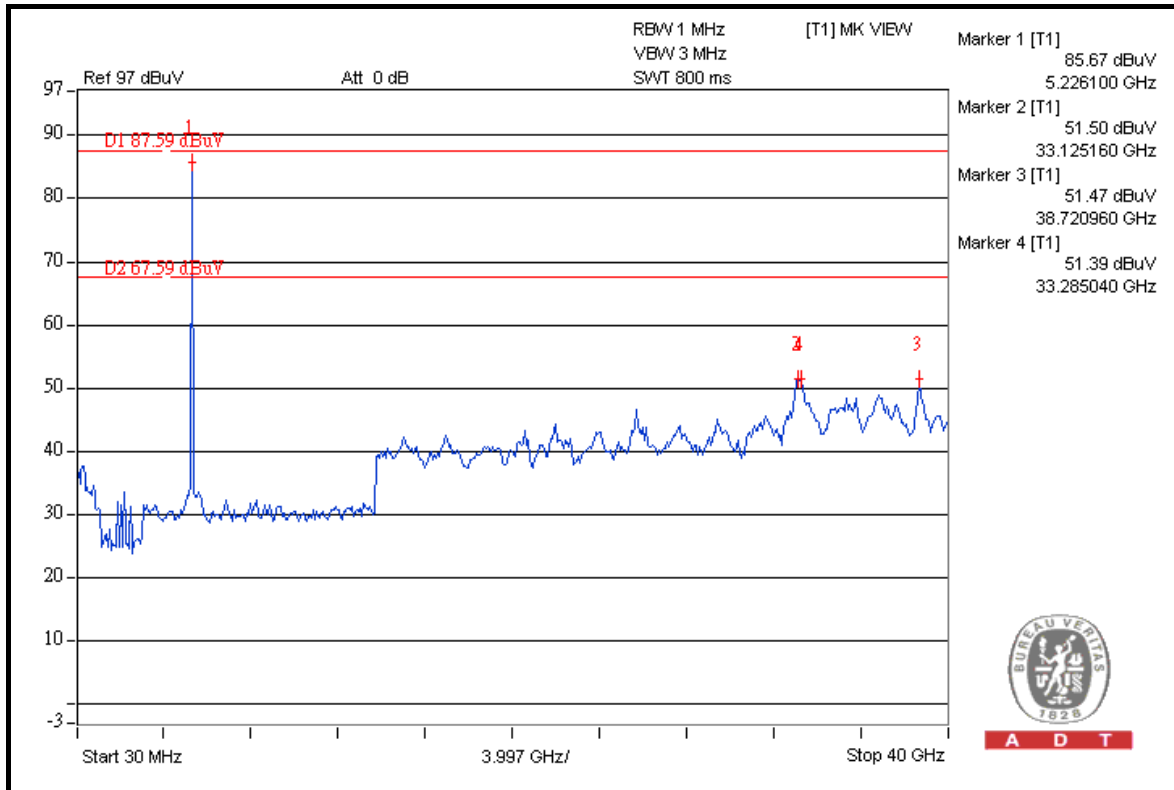
A D T



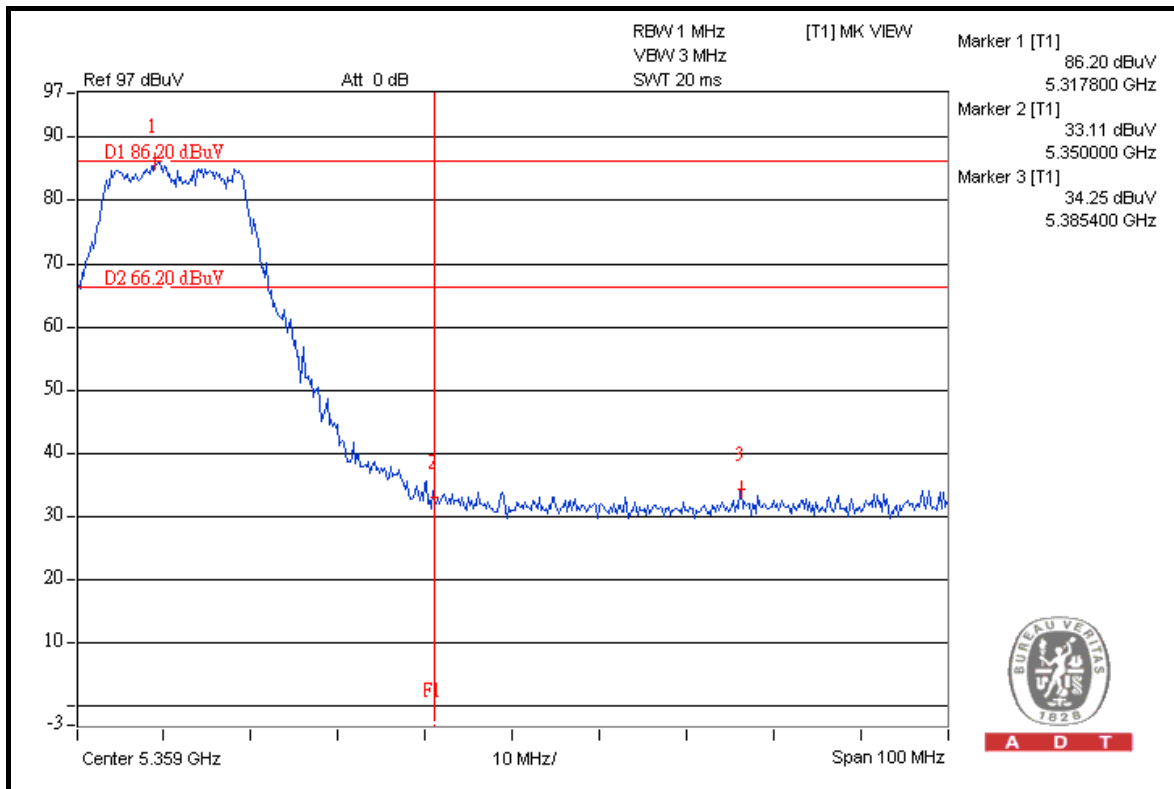
A D T



A D T



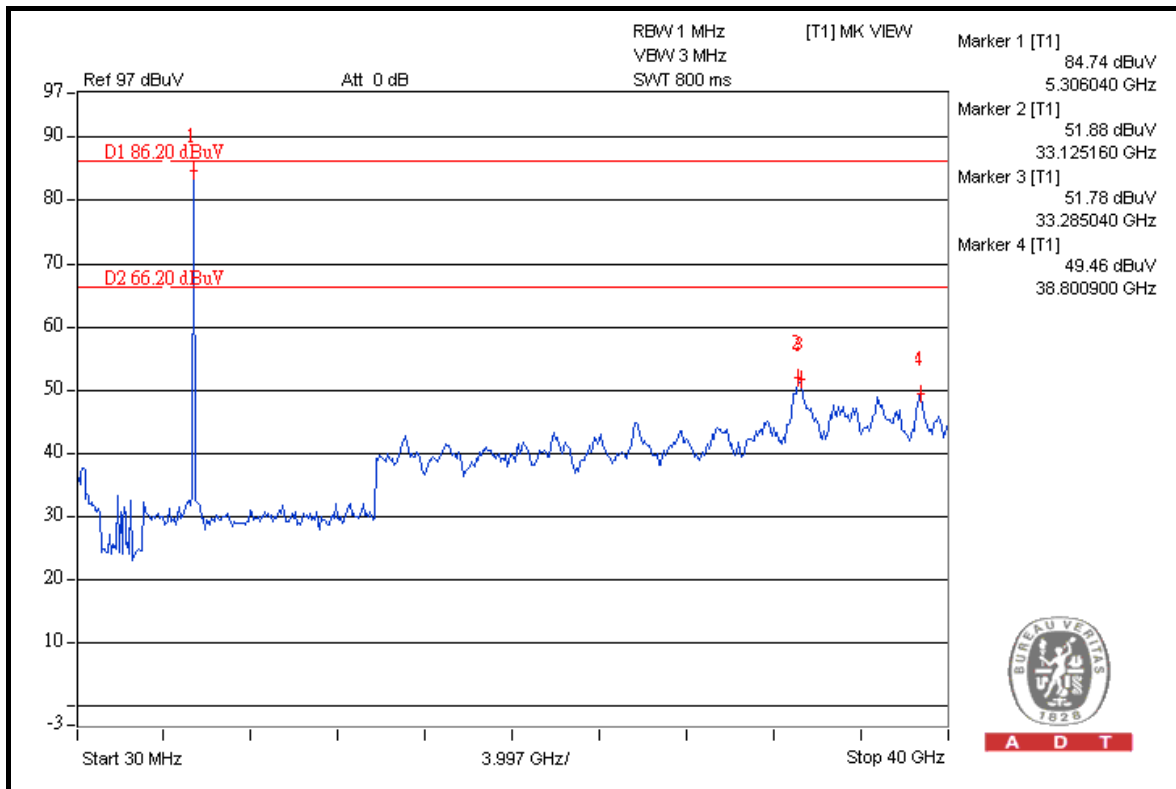
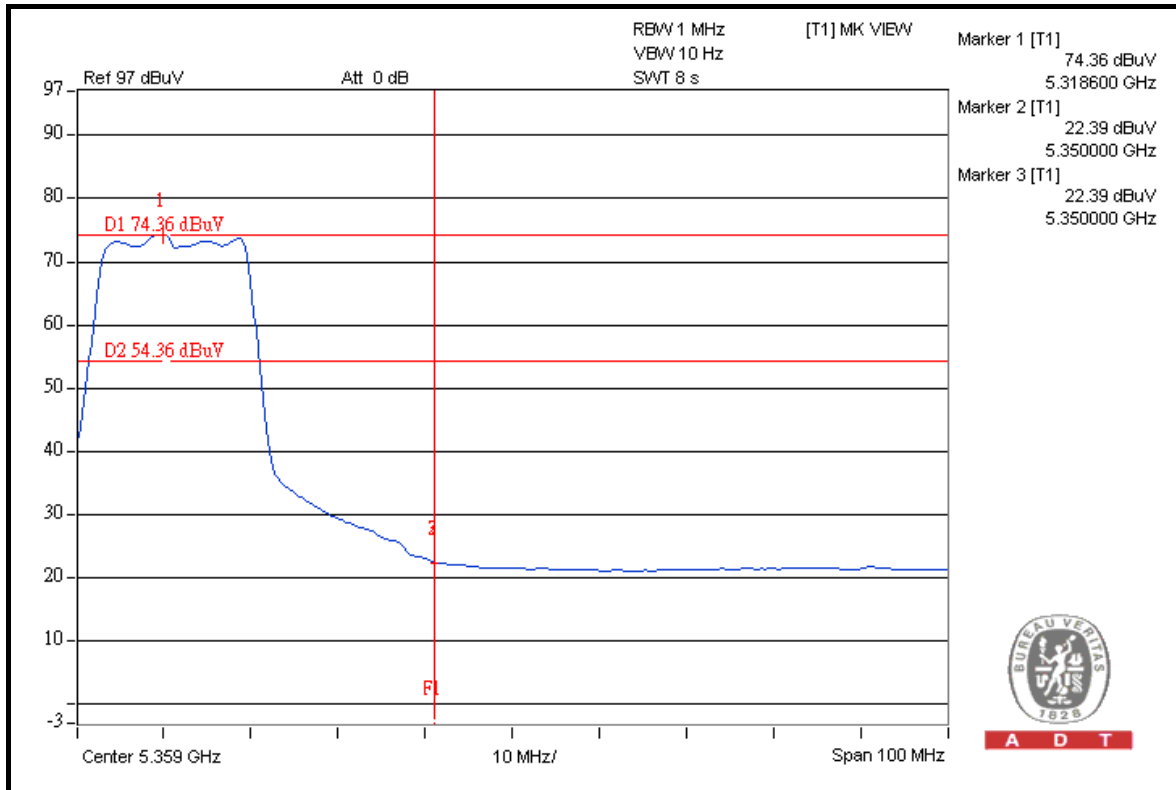
A D T



A D T



A D T



**FOR 5500-5700MHz BAND:**

**802.11a**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	113.4	51.57	61.83	74.00
5500.00 (AV)	101.5	52.57	48.93	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	113.4	51.19	62.21	68.30

**5700MHz**

**ABOVE 5725 MHz**

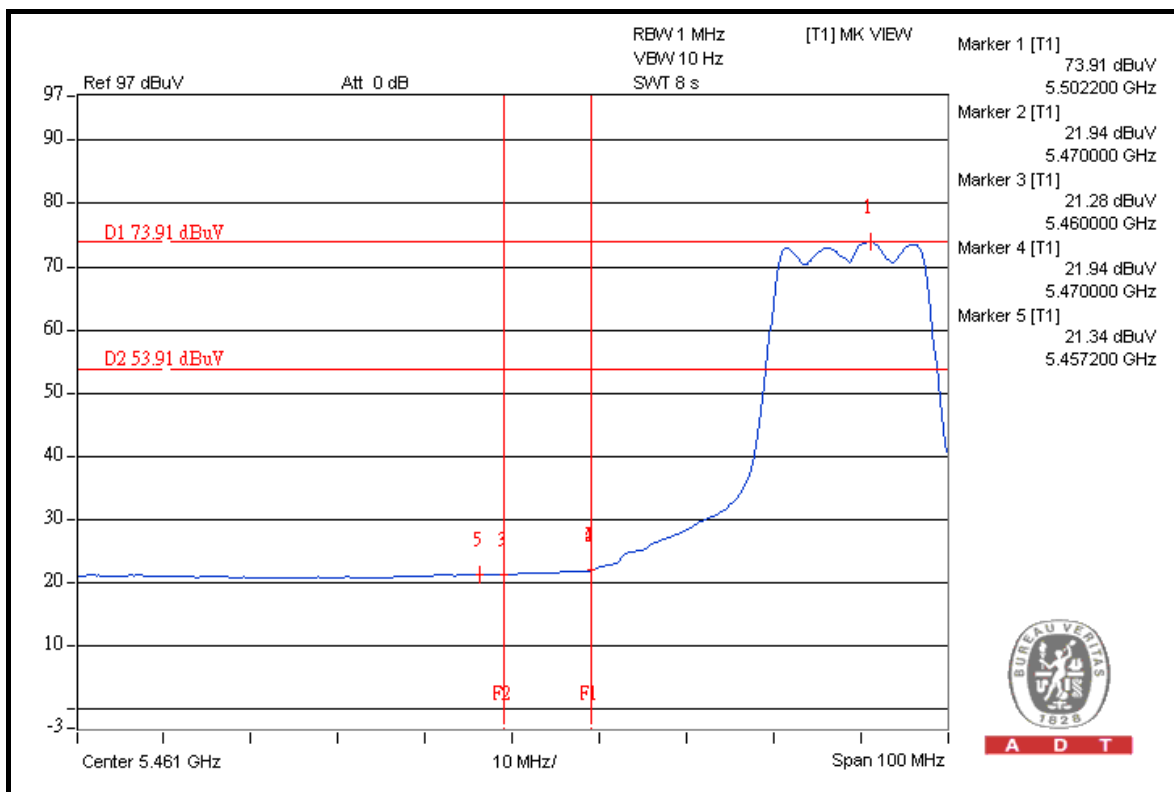
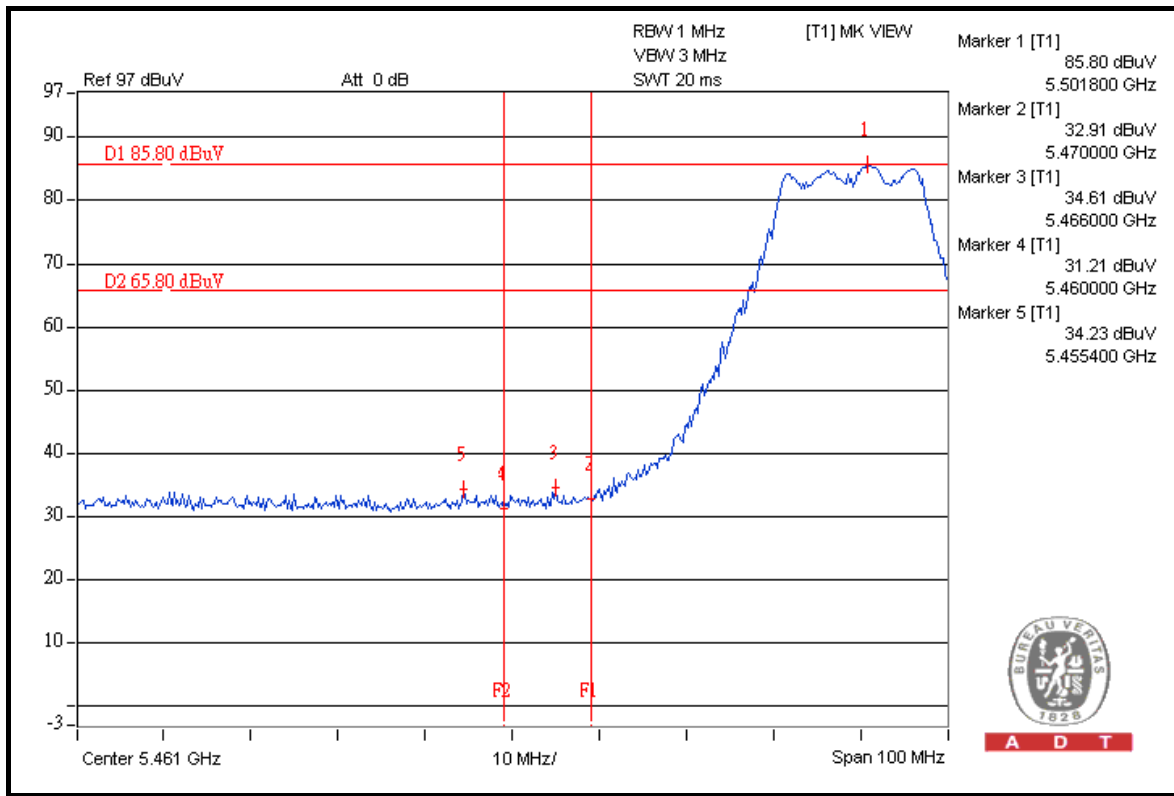
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	112.2	48.34	63.86	68.30

**NOTE:**

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



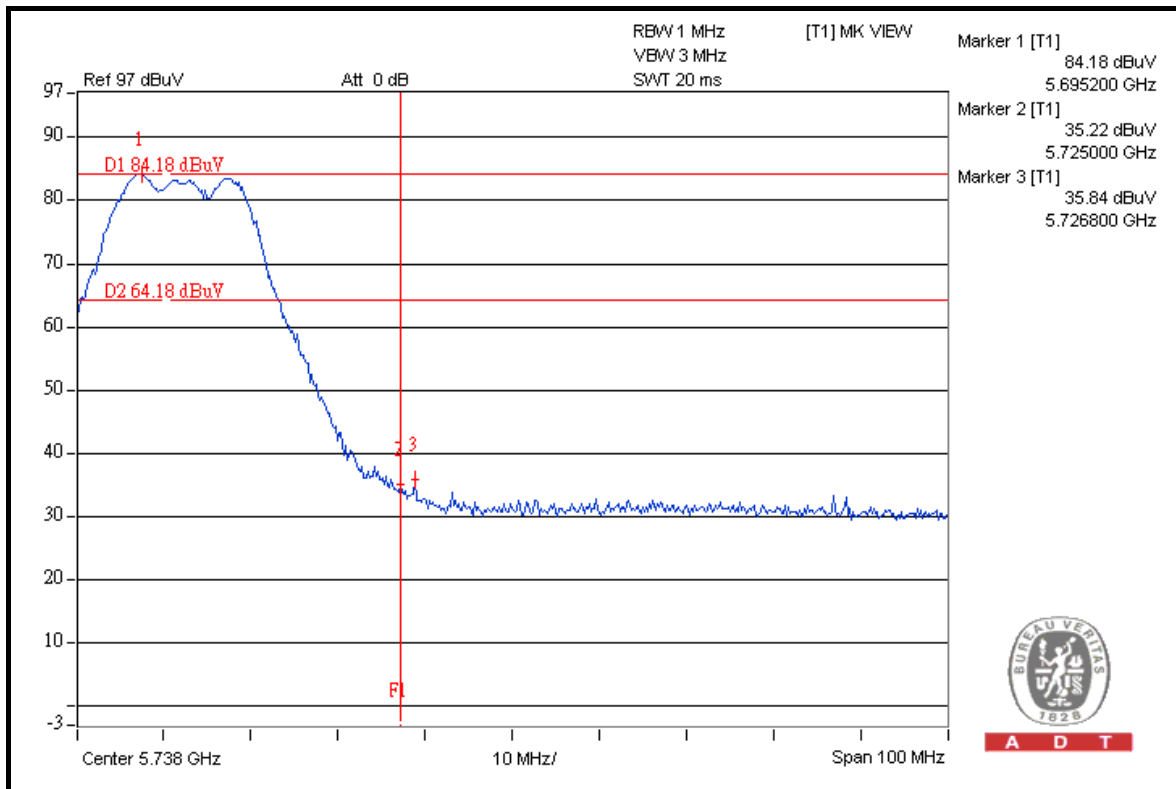
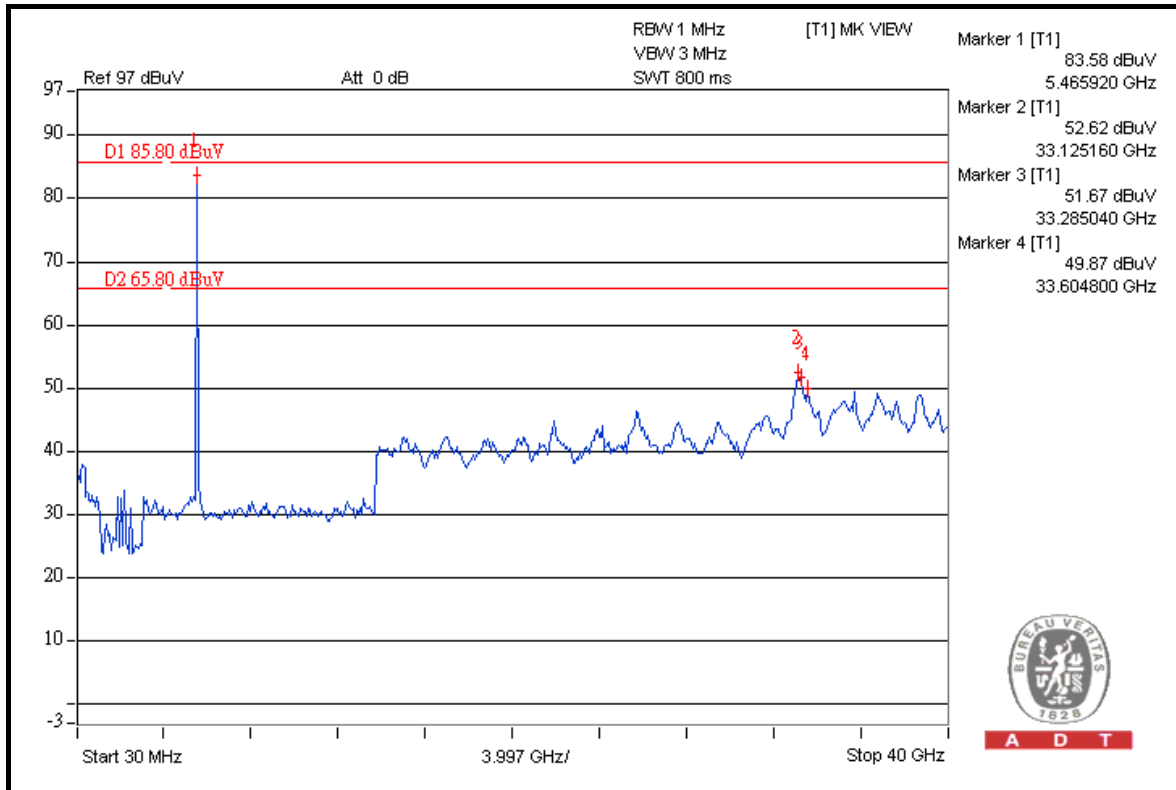
A D T





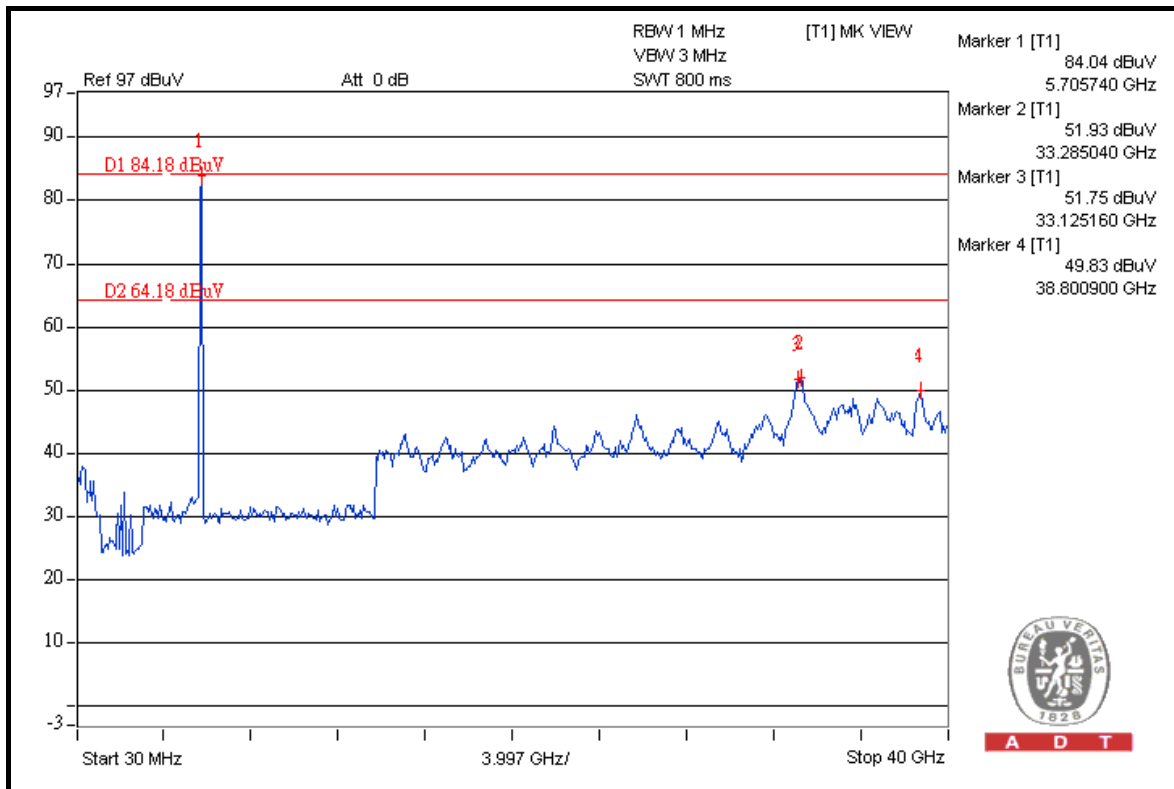
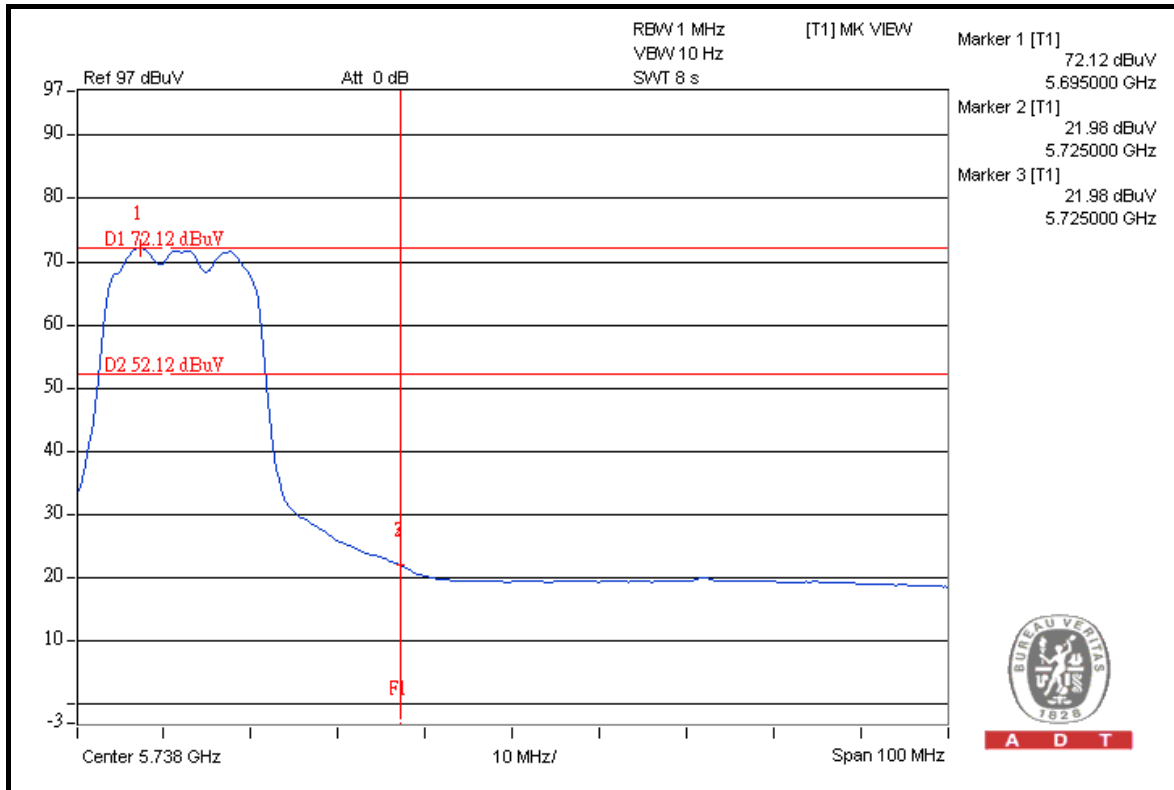


A D T





A D T



**FOR 5260-5320MHz BAND:**

**802.11n (20MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	115.1	52.17	62.93	74.00
5260.00 (AV)	103.2	52.81	50.39	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

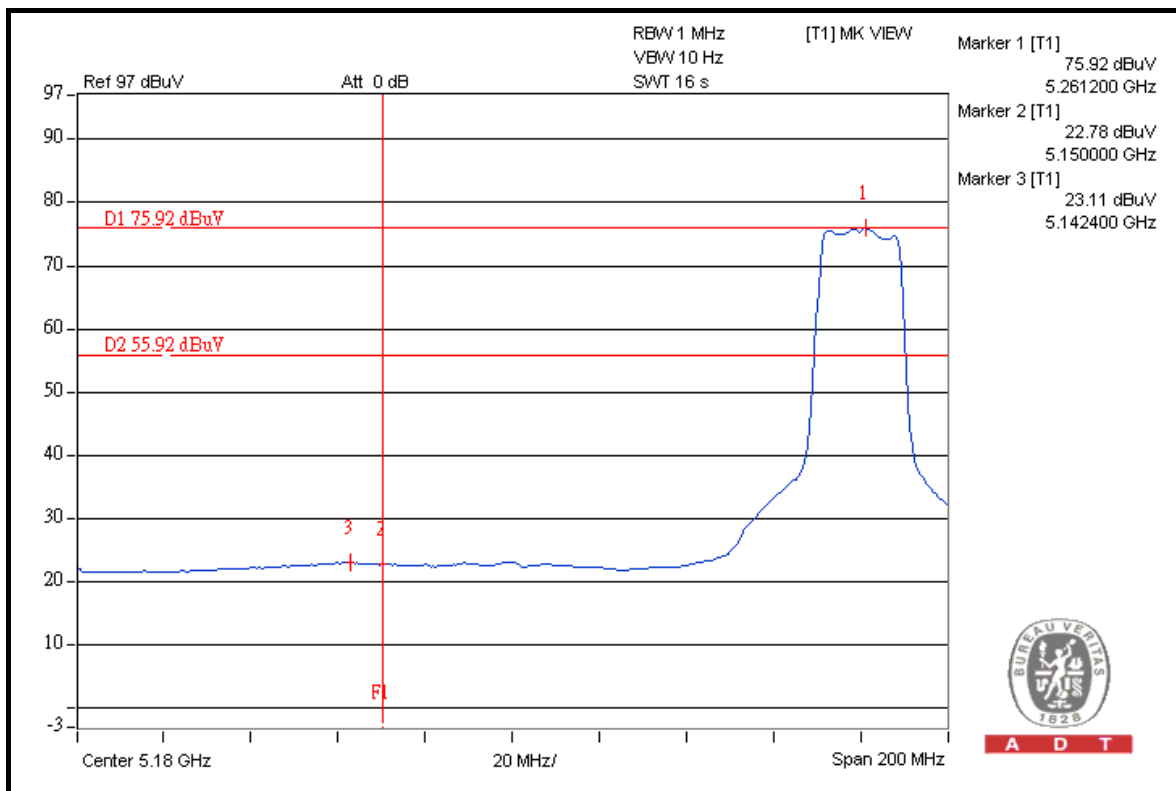
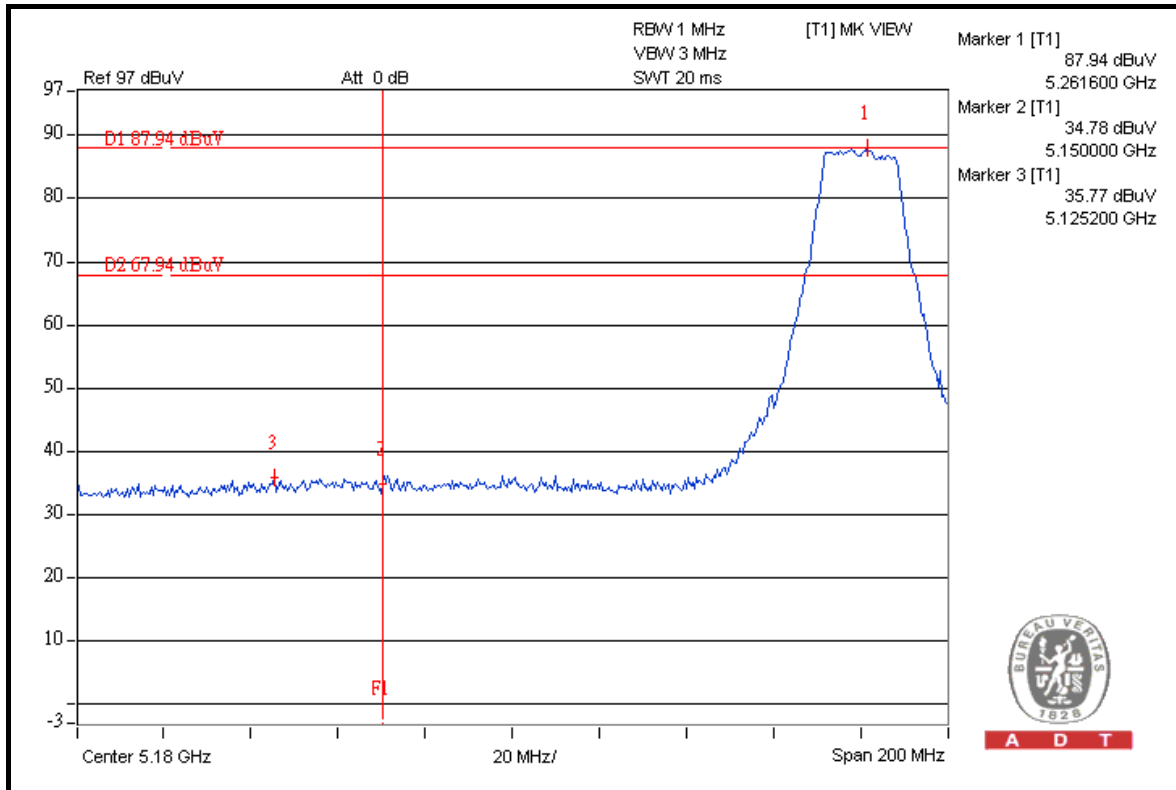
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	114.5	52.09	62.41	74.00
5320.00 (AV)	102.4	51.84	50.56	54.00

**NOTE:**

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

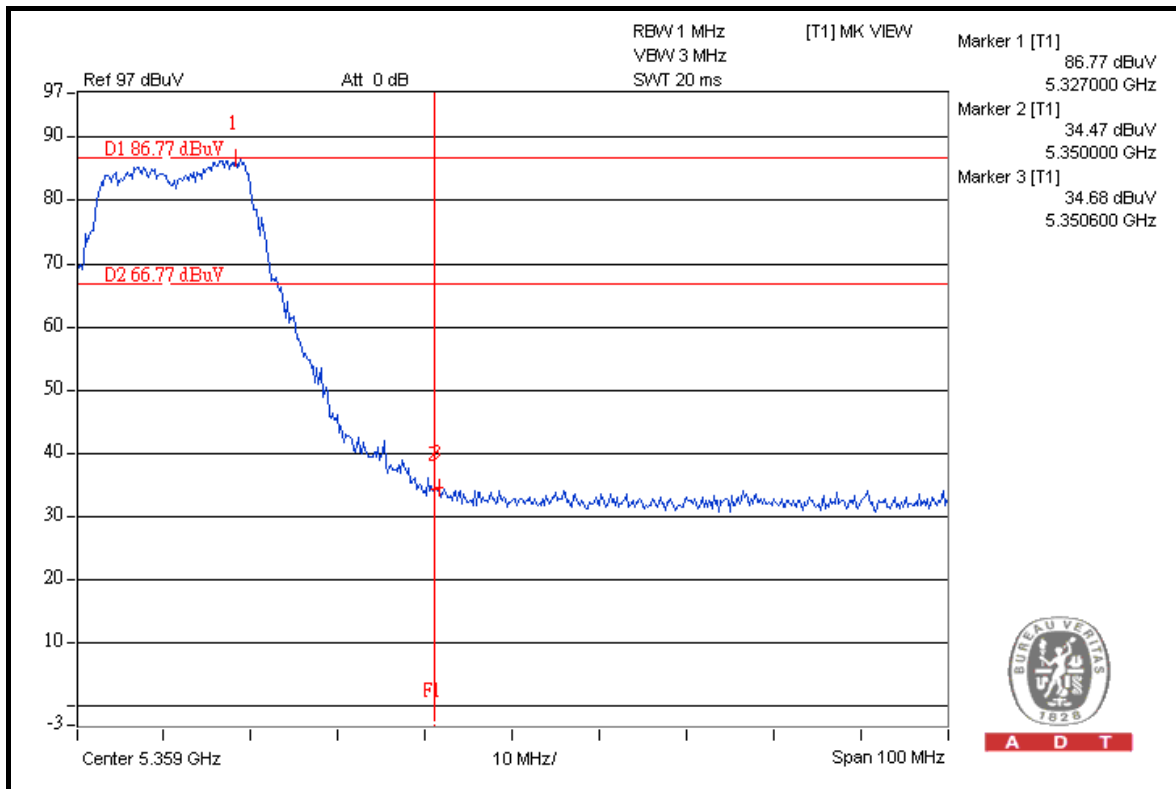
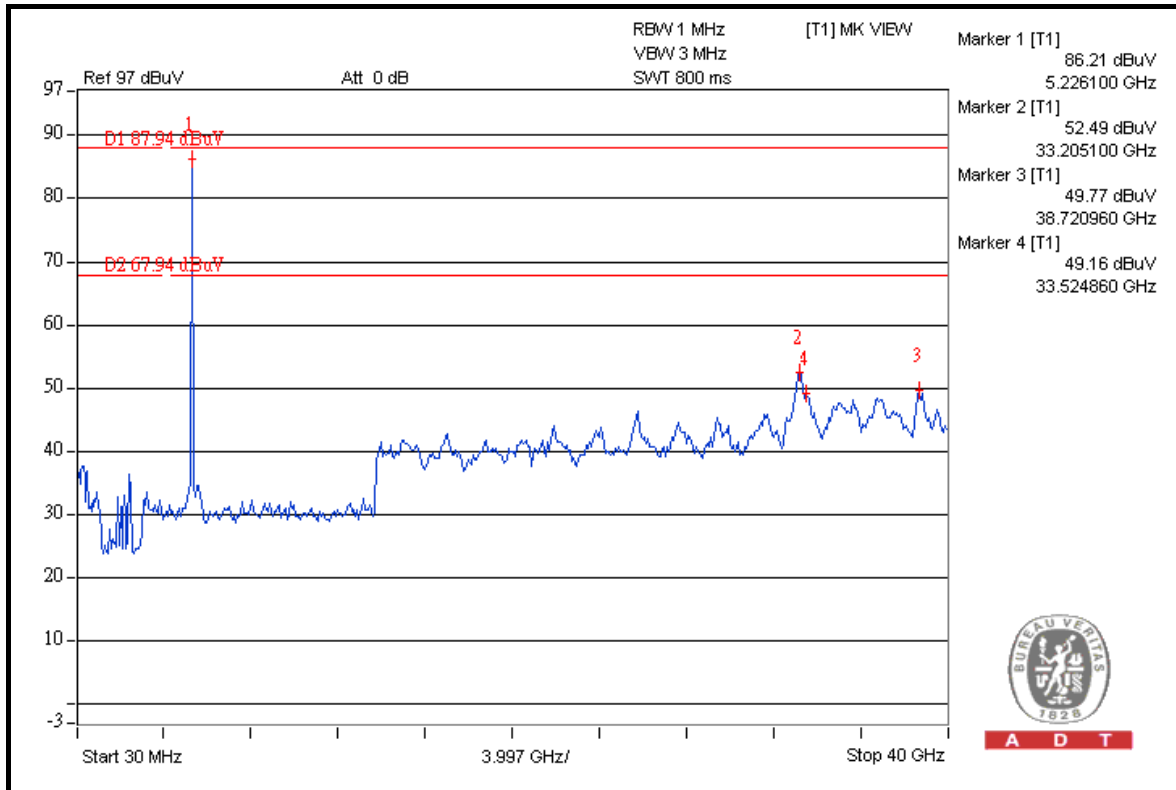


A D T



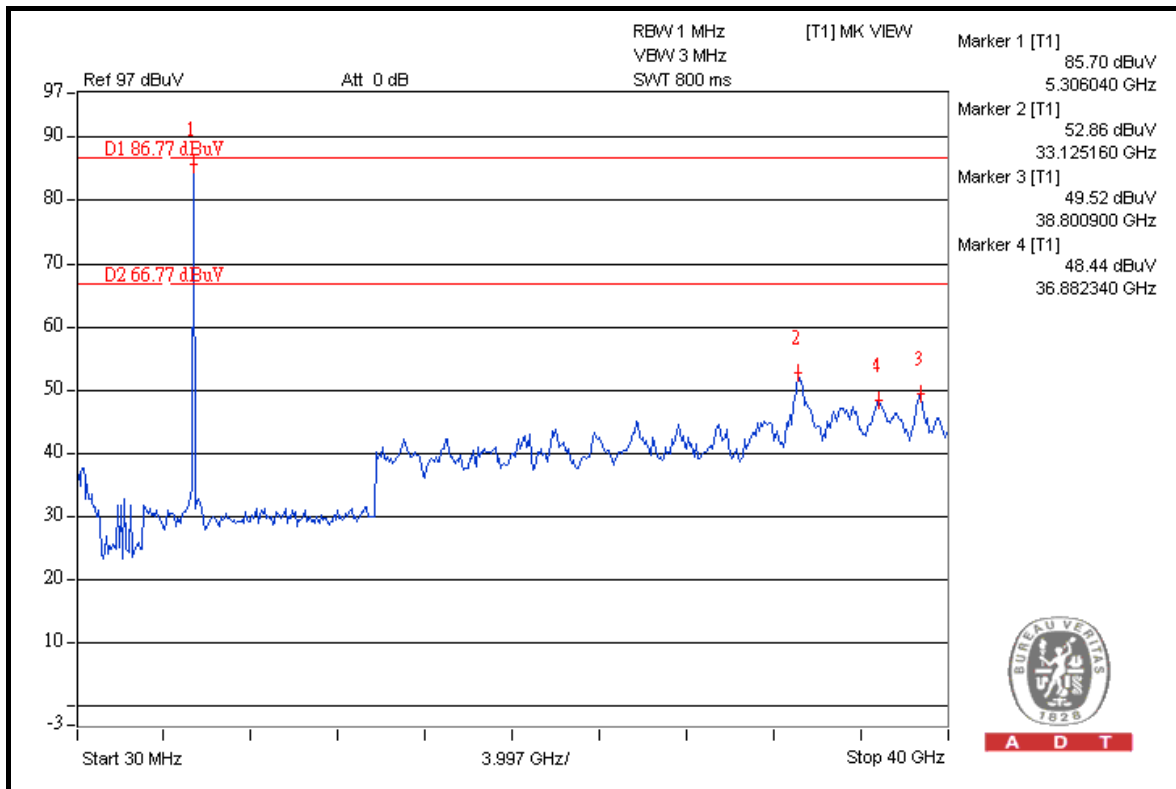
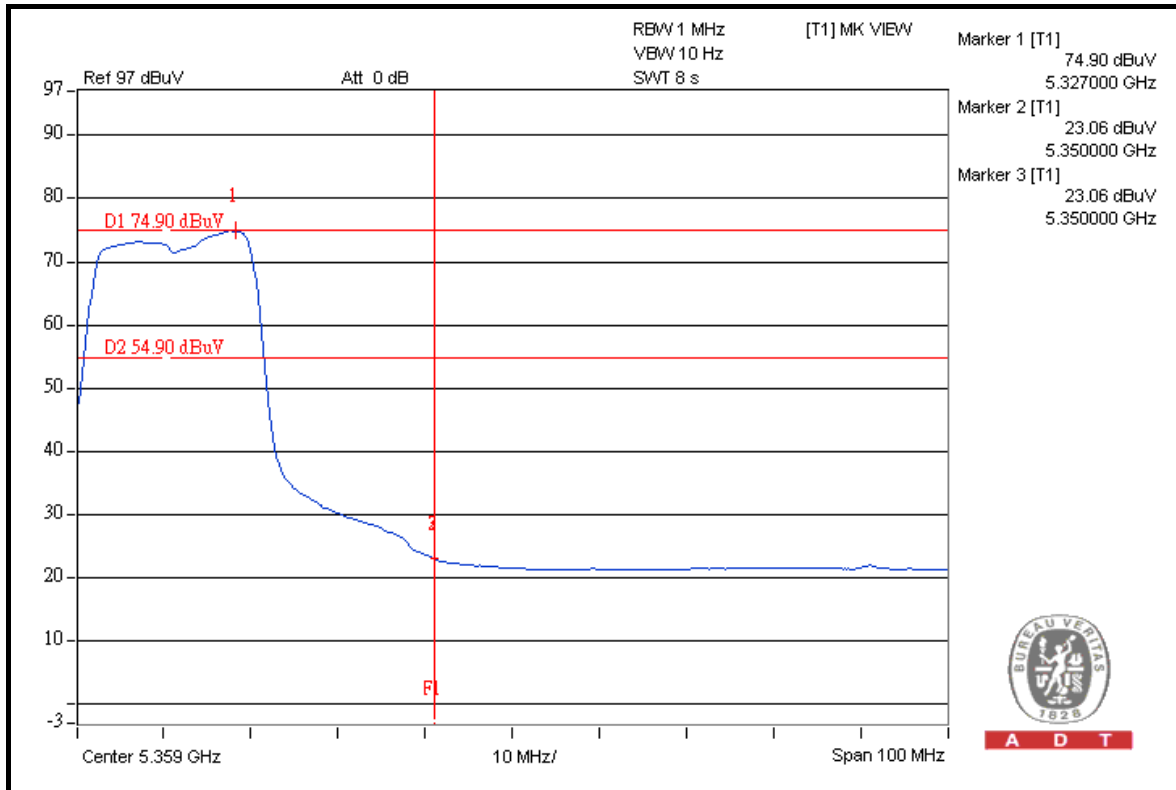


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (20MHz)**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	114.0	52.06	61.94	74.00
5500.00 (AV)	102.0	52.88	49.12	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	114.0	52.20	61.80	68.30

**5700MHz**

**ABOVE 5725 MHz**

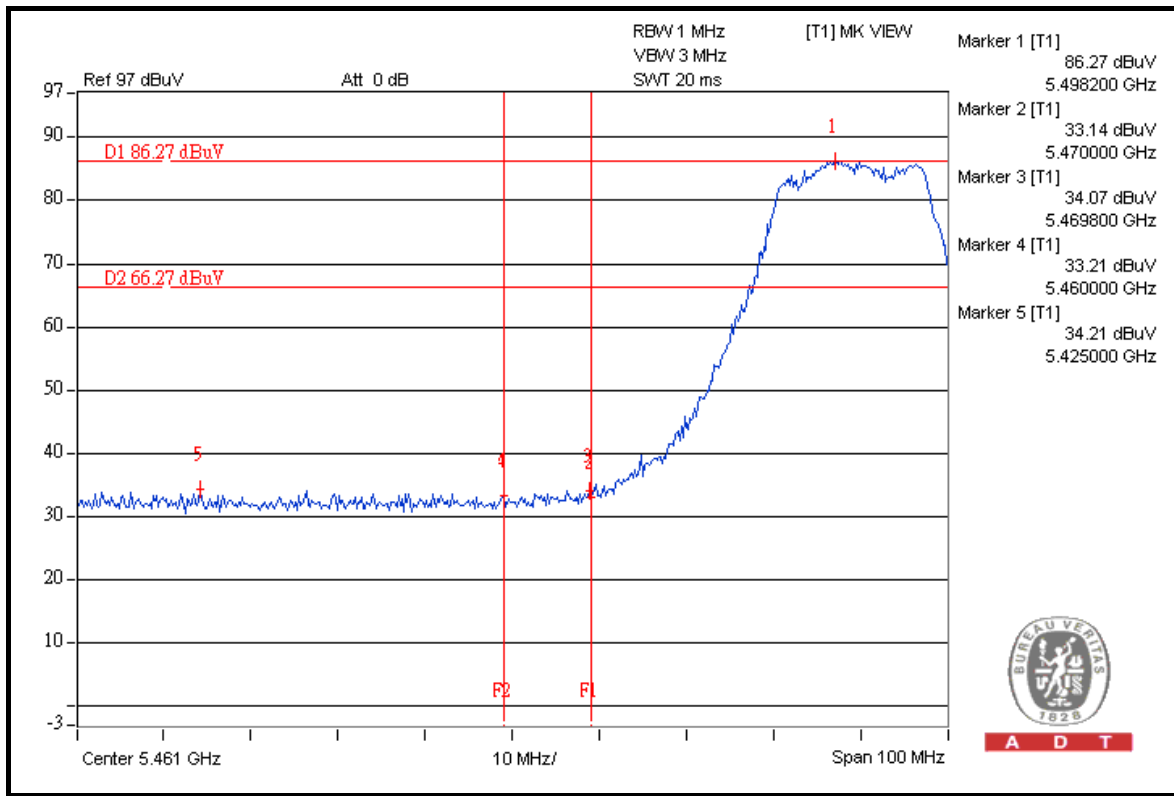
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	113.0	49.23	63.77	68.30

**NOTE:**

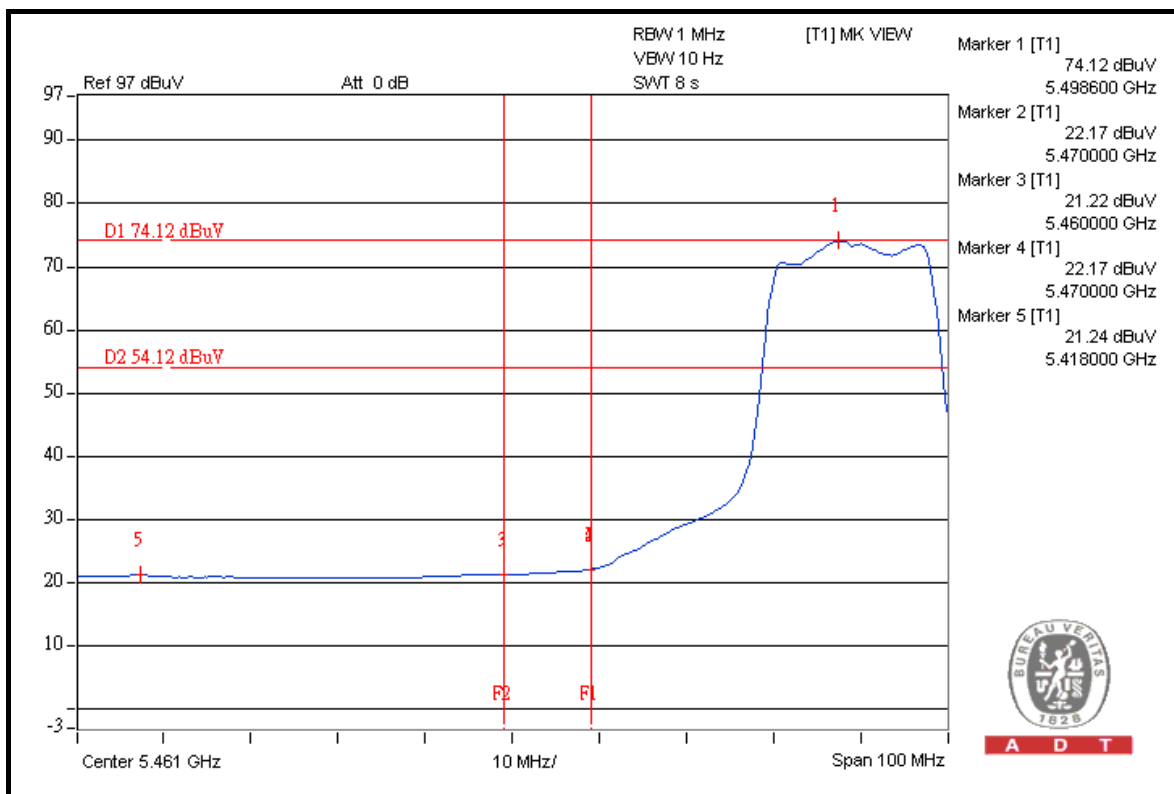
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



A D T

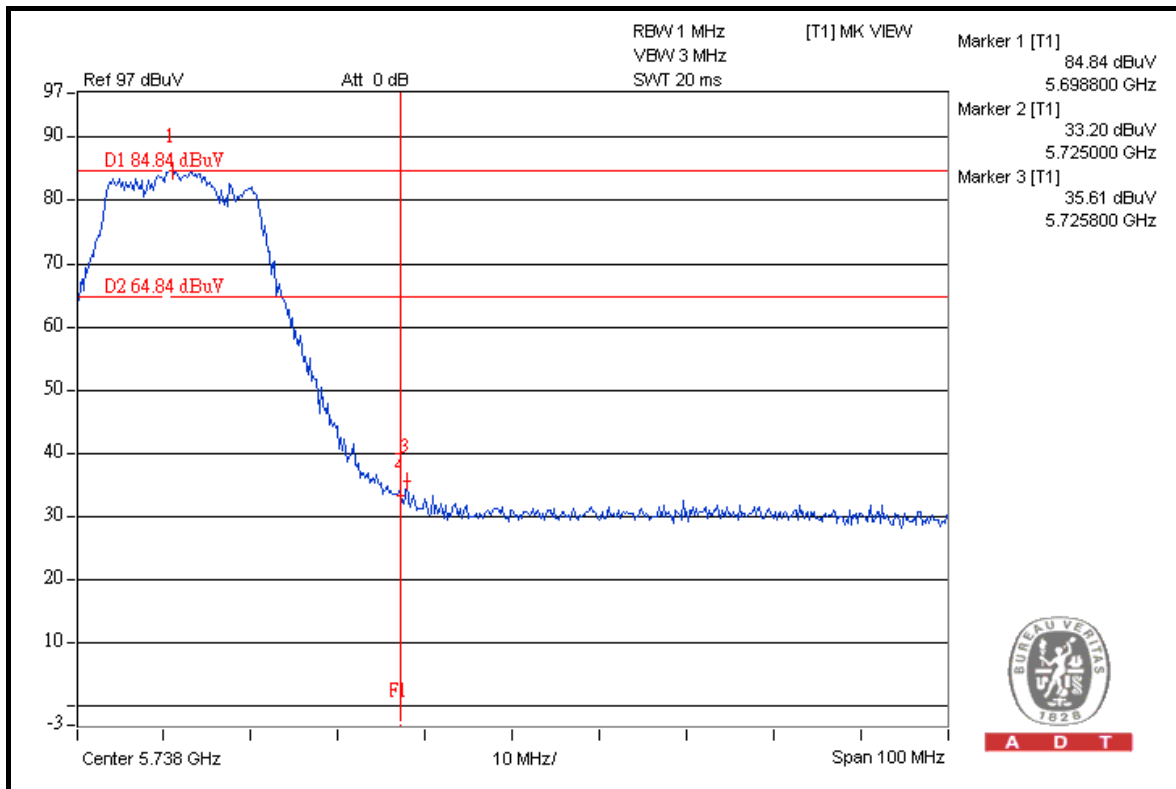
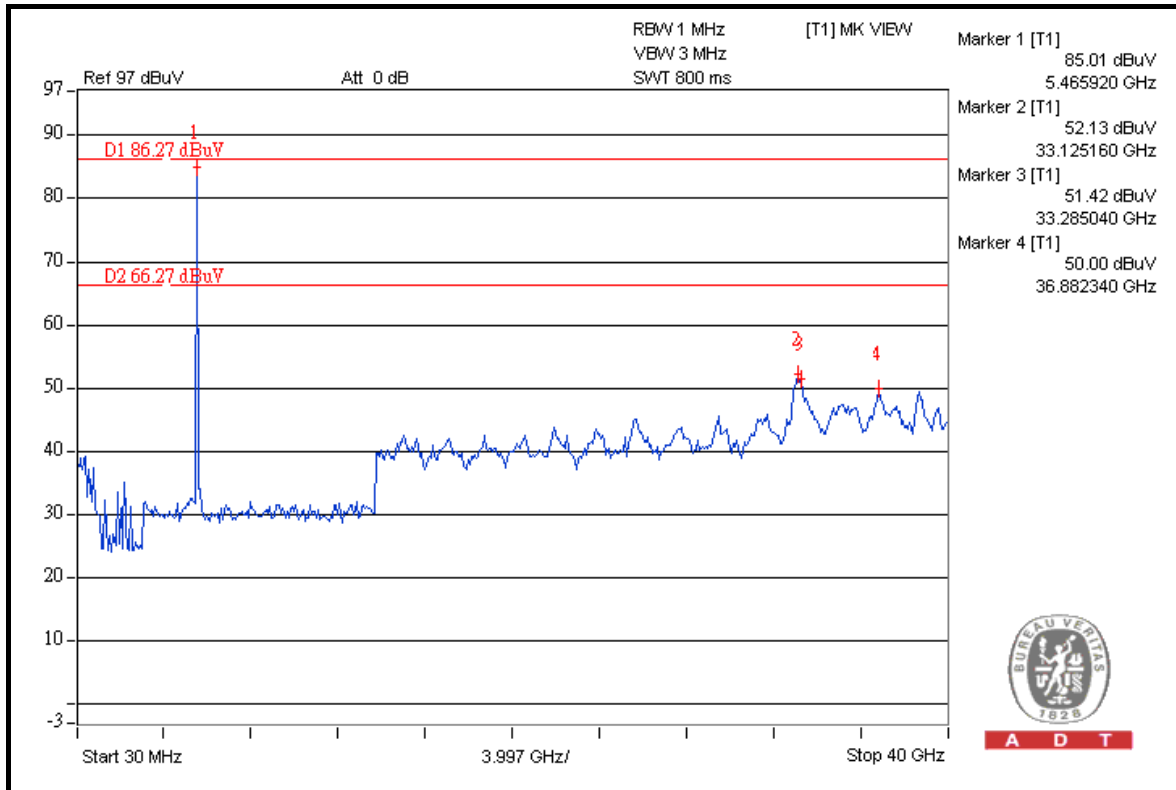


A D T



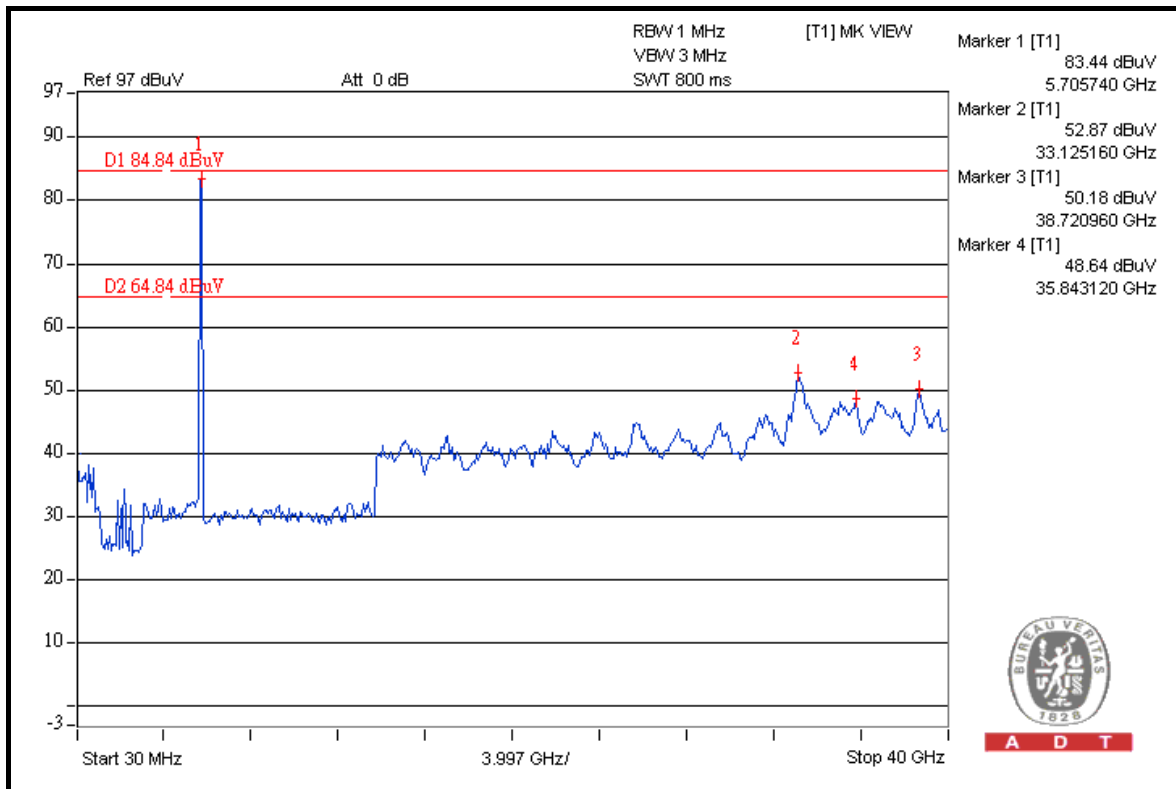
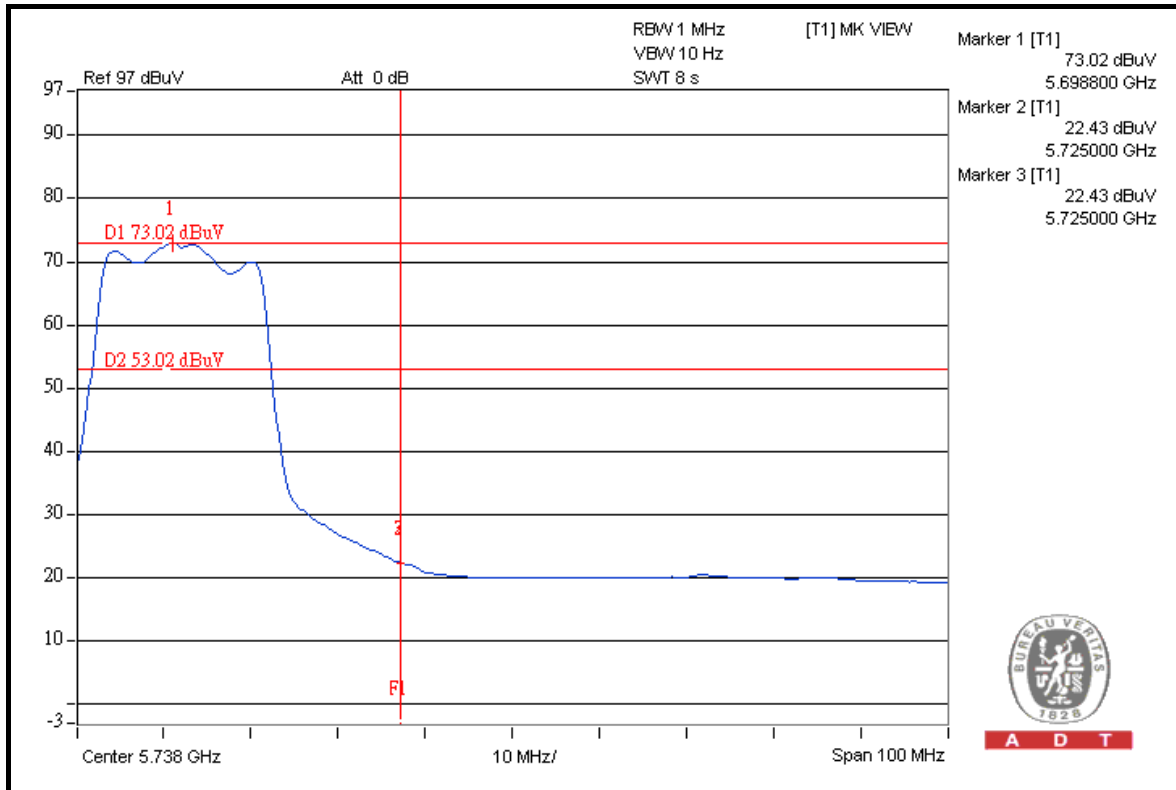


A D T





A D T



**FOR 5260-5320MHz BAND:**

**802.11n (40MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5270.00 (PK)	112.4	48.61	63.79	74.00
5270.00 (AV)	99.0	49.43	49.57	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

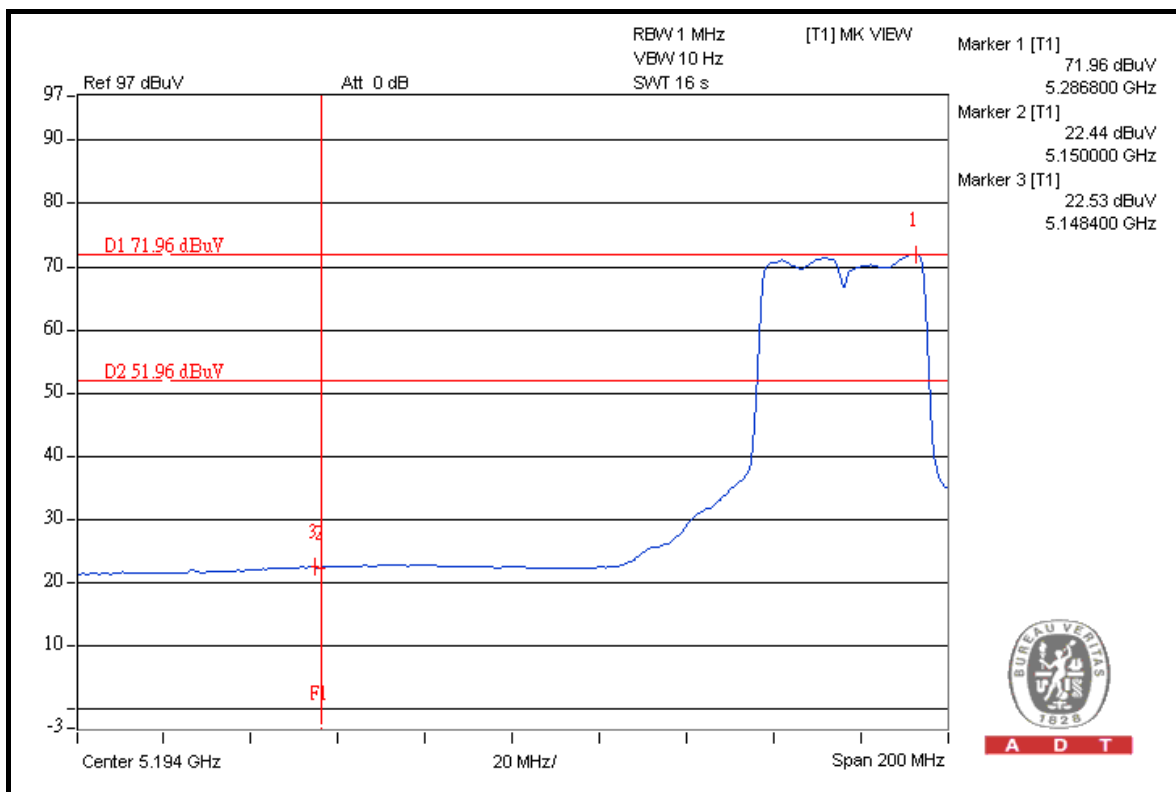
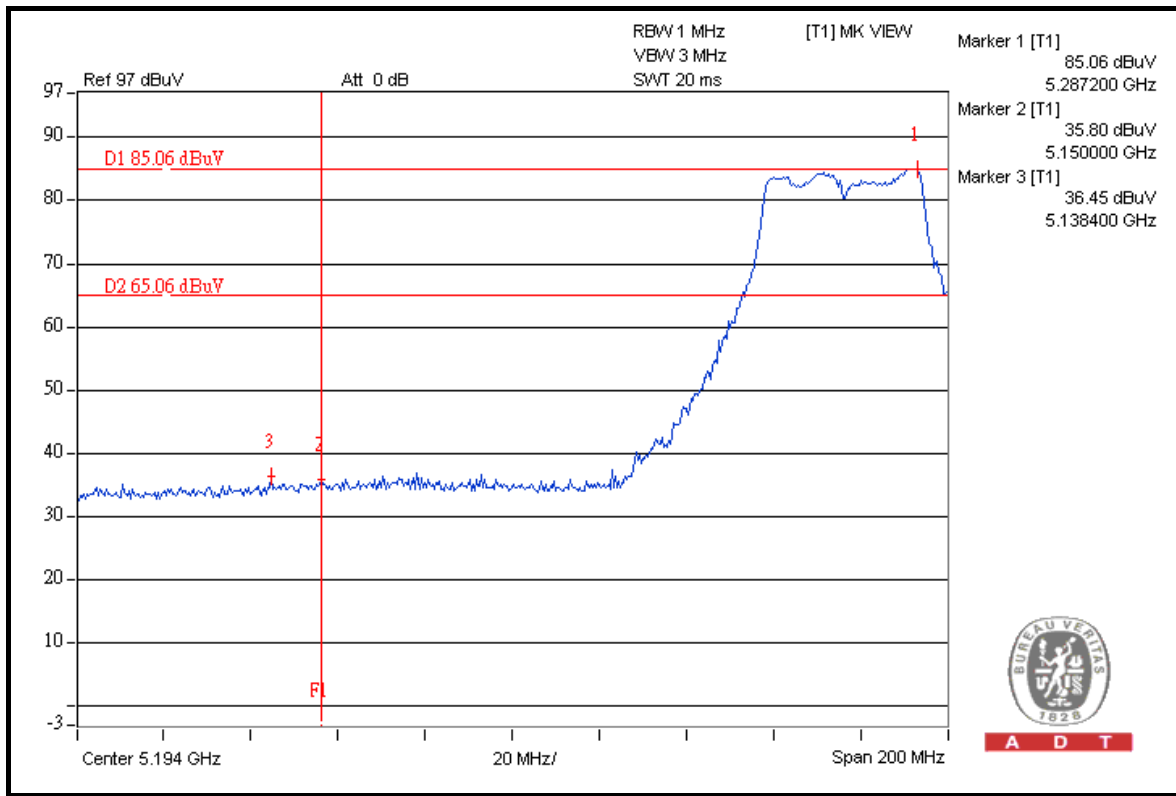
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5310.00 (PK)	112.0	41.09	70.91	74.00
5310.00 (AV)	98.7	46.34	52.36	54.00

**NOTE:**

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

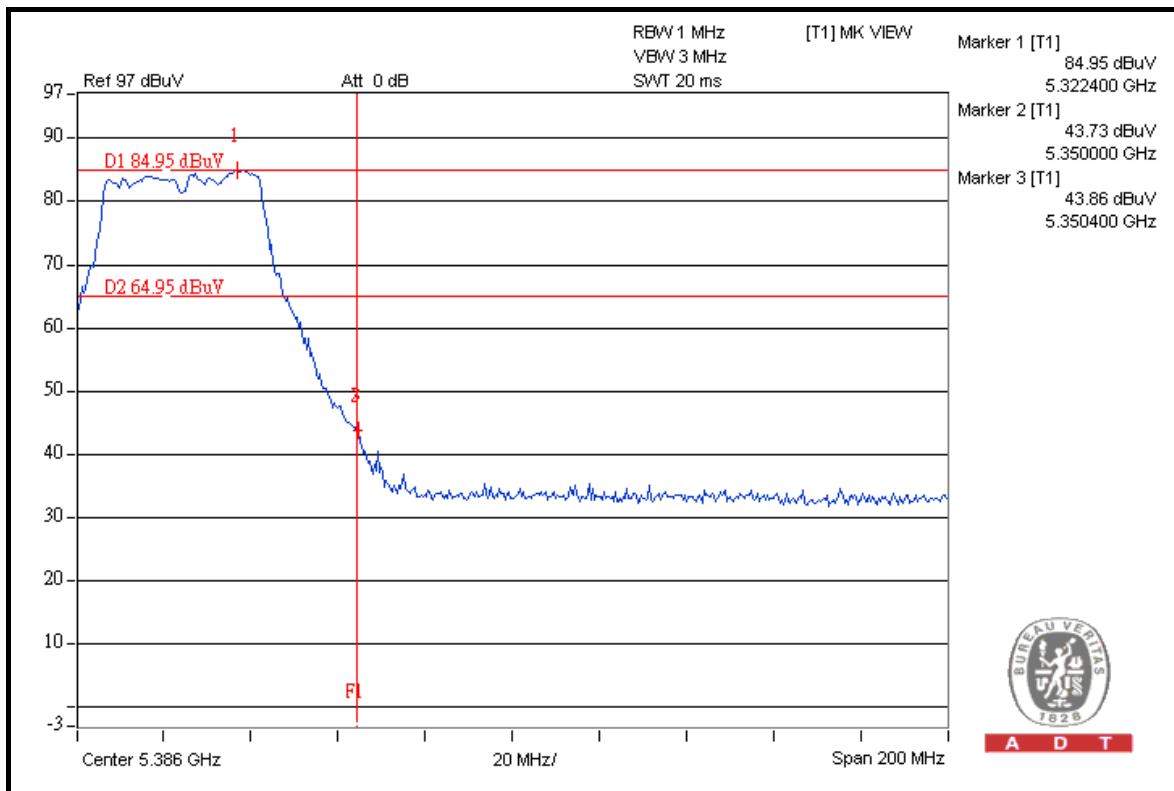
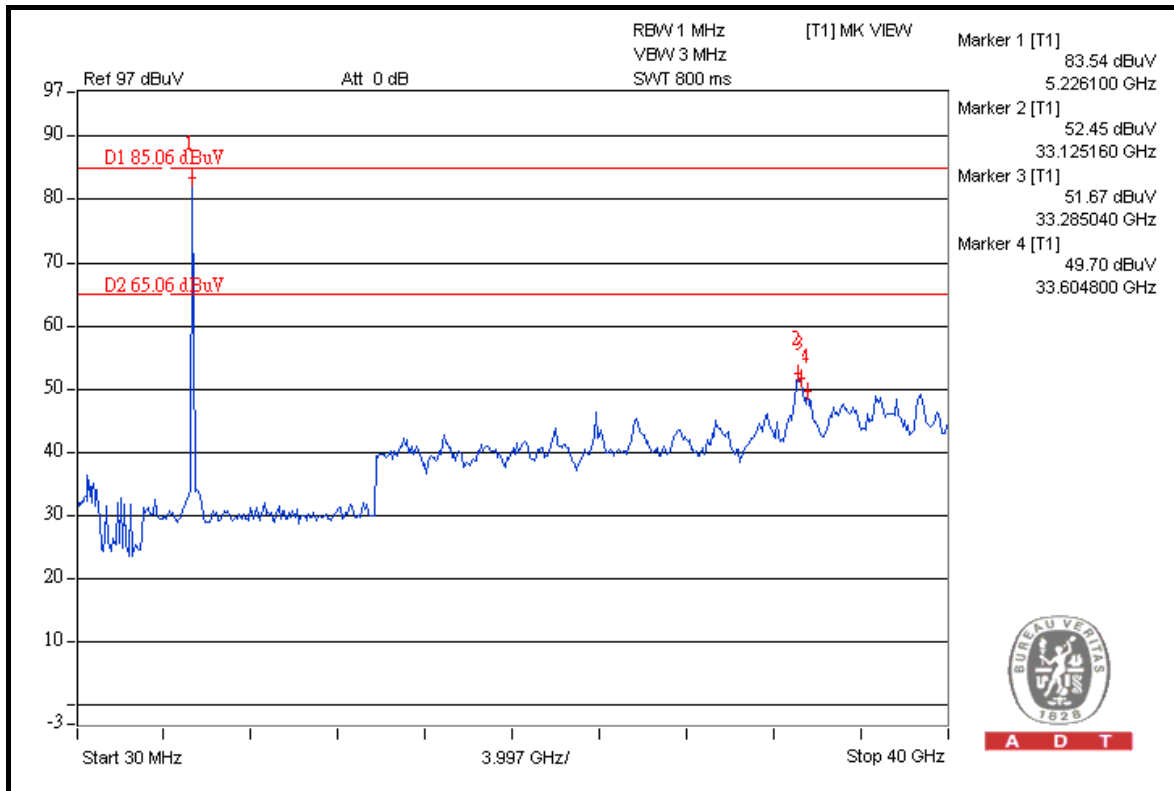


A D T



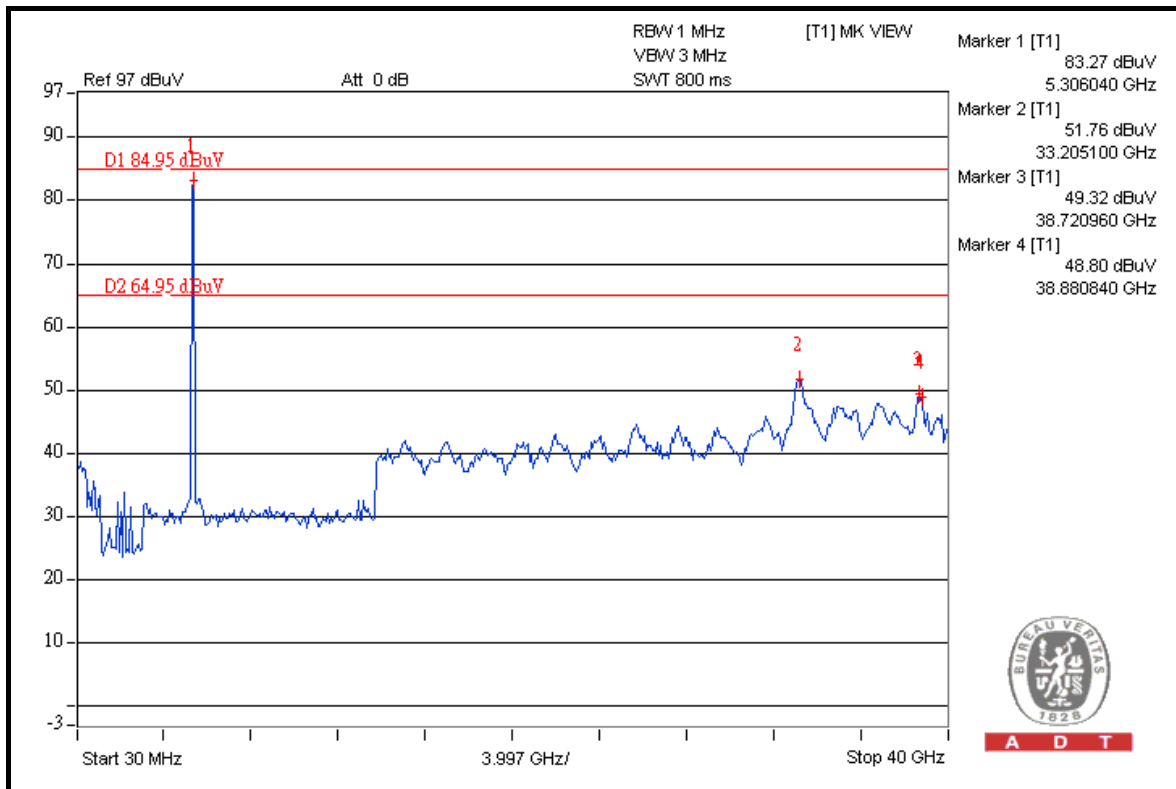
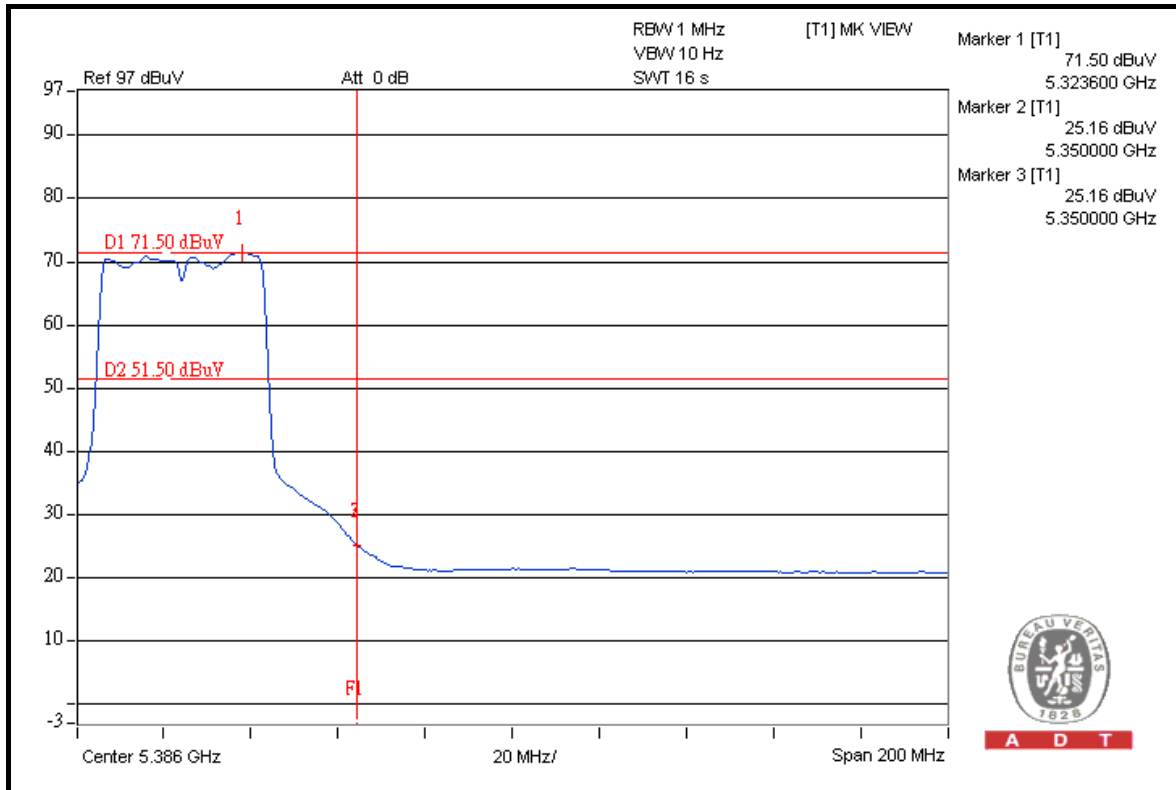


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (40MHz)**

**5510MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	111.6	49.34	62.26	74.00
5510.00 (AV)	98.2	48.90	49.30	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

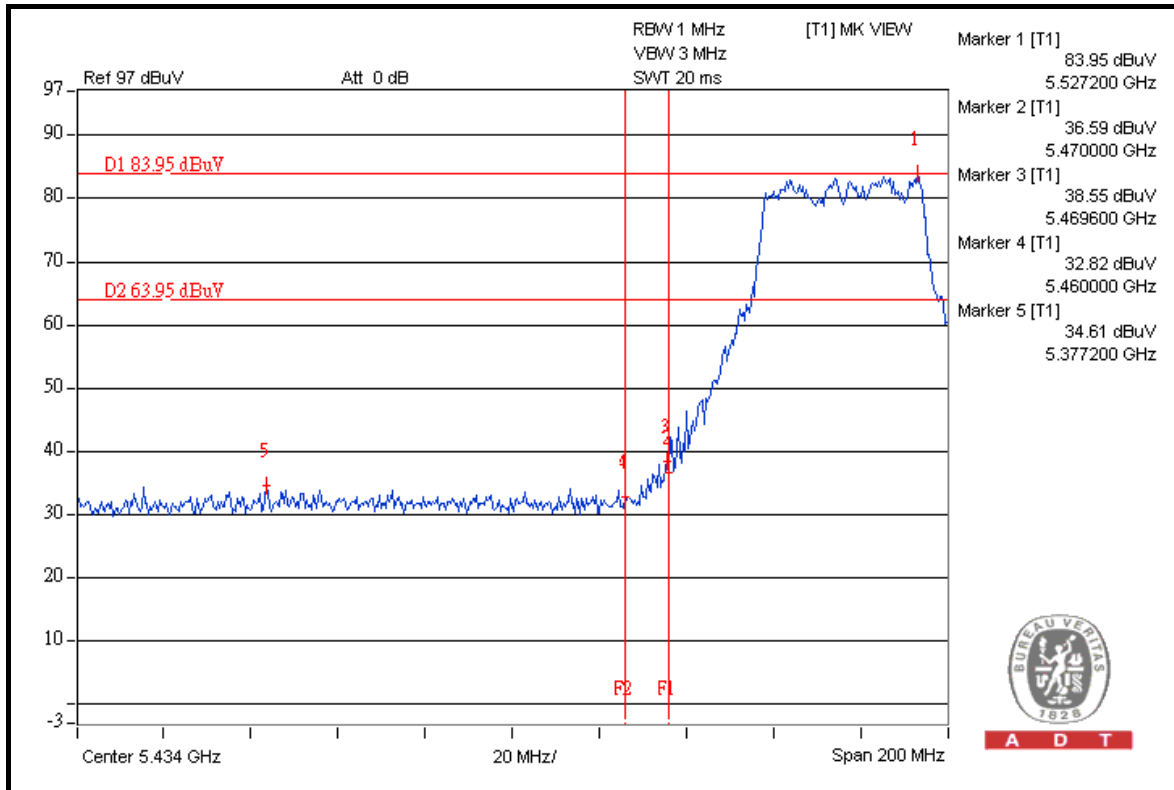
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	111.6	45.40	66.20	68.30

**NOTE:**

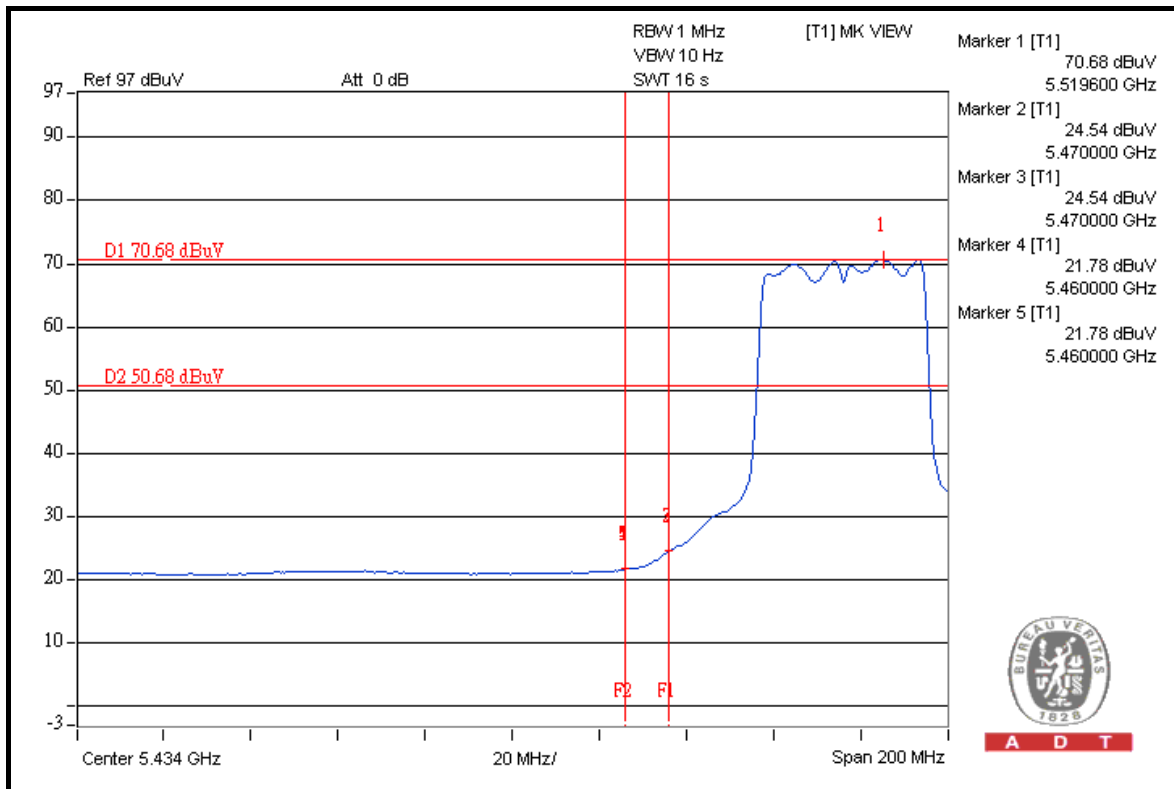
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



A D T

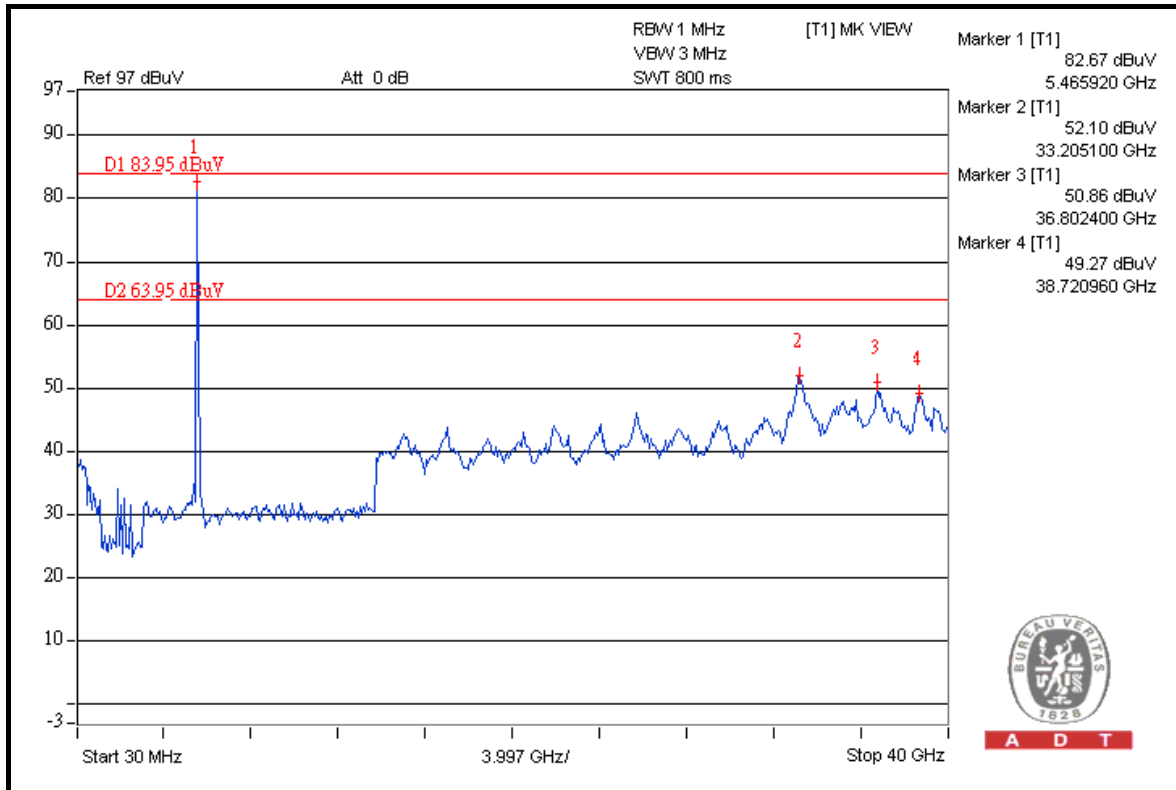


A D T





A D T



A D T

#### 4.7.5 TEST RESULTS (A2)

For signals in the restricted bands above and below the 5.26 to 5.32GHz, 5.50 to 5.70GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

#### FOR 5260-5320MHz BAND: 802.11a

##### RESTRICT BAND (4500 ~ 5150 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	115.2	50.00	65.20	74.00
5260.00 (AV)	103.2	50.99	52.21	54.00

##### RESTRICT BAND (5350 ~ 5460 MHz)

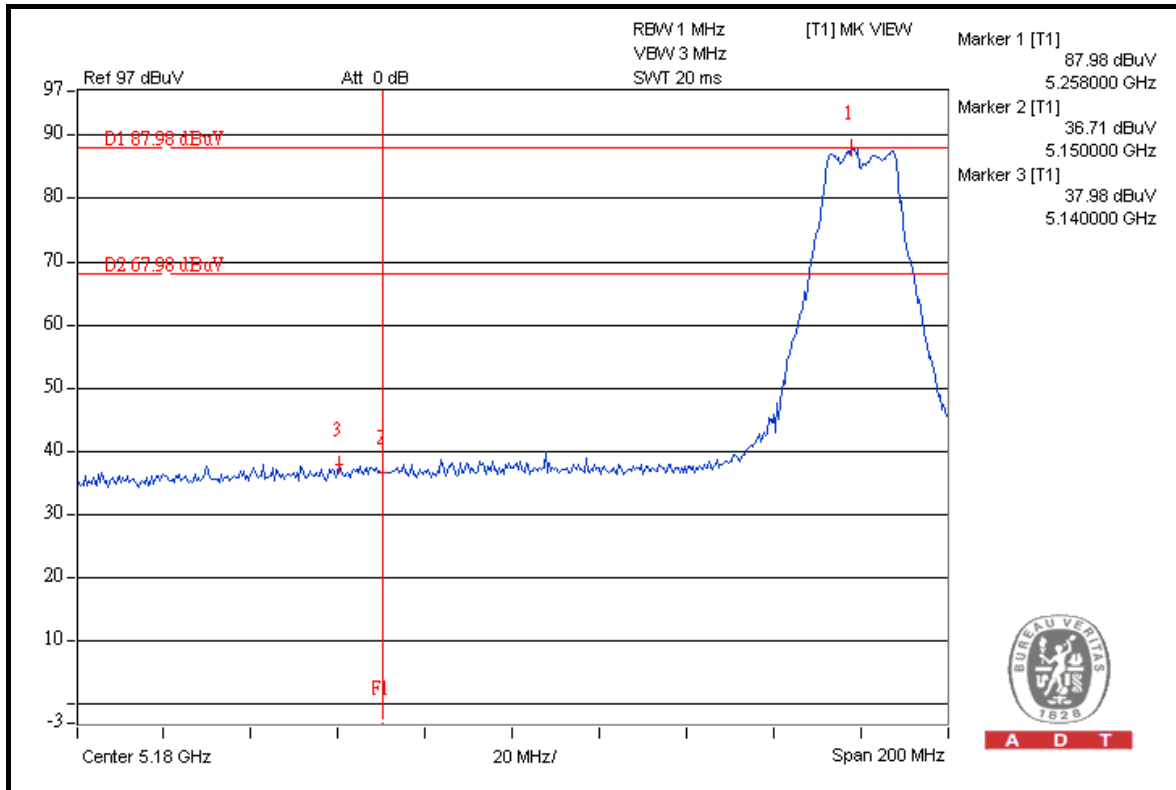
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	114.3	50.89	63.41	74.00
5320.00 (AV)	102.4	51.83	50.57	54.00

#### NOTE:

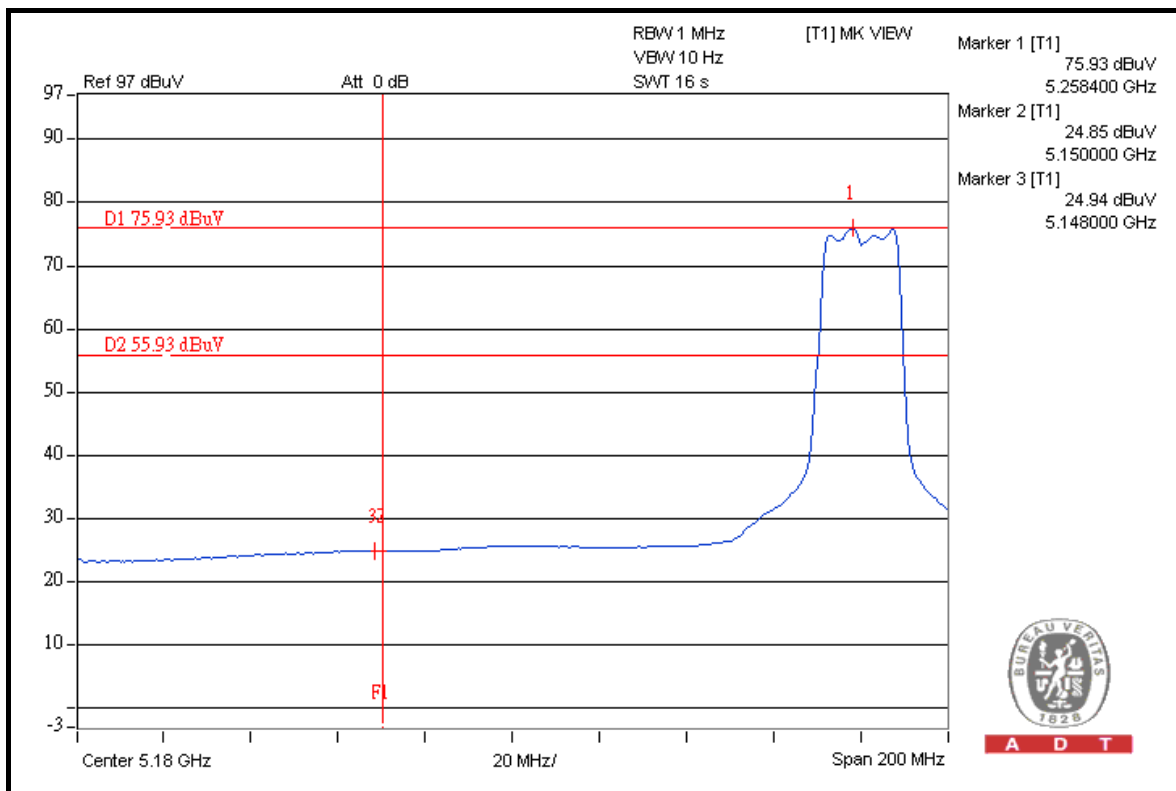
- Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
- Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



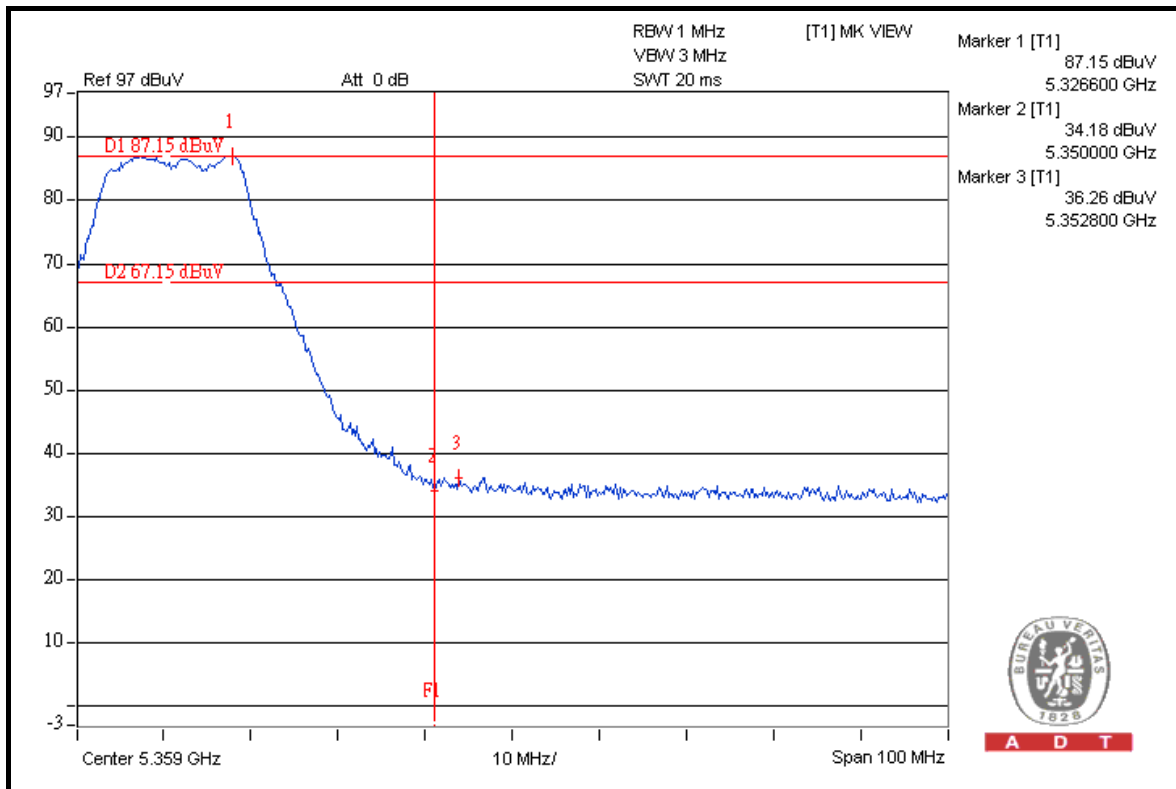
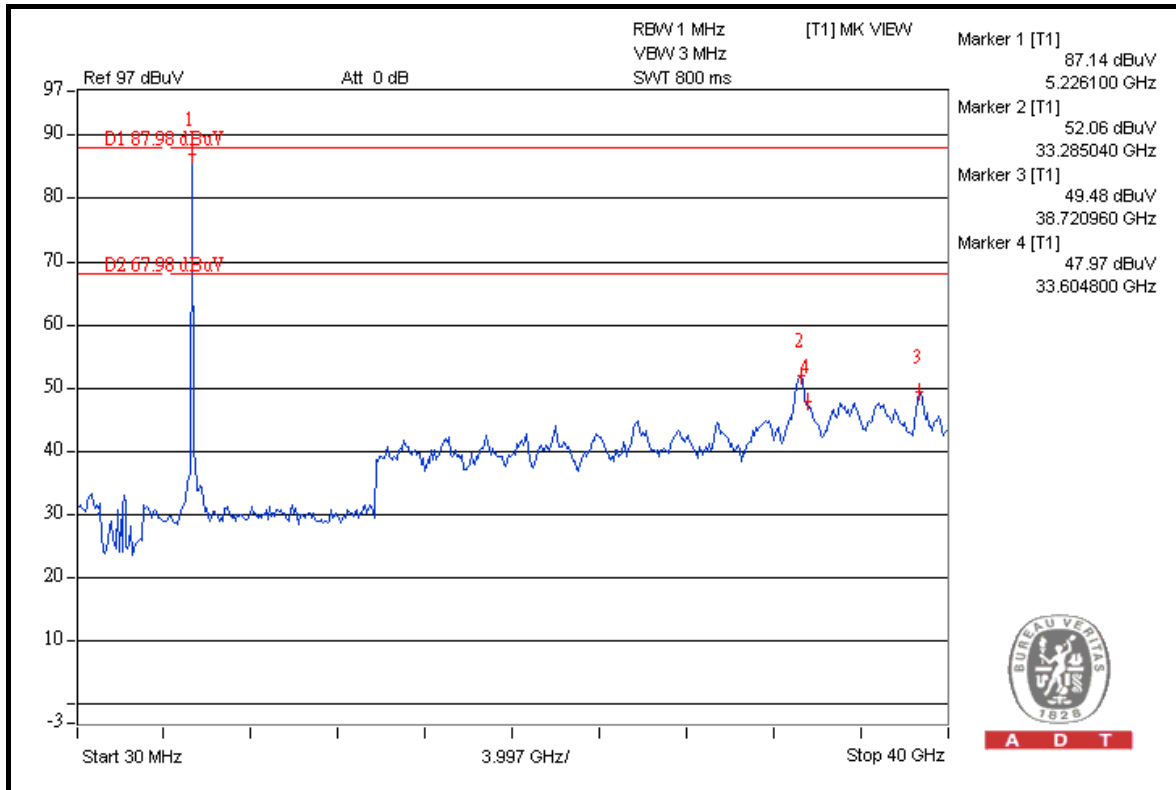
A D T



A D T

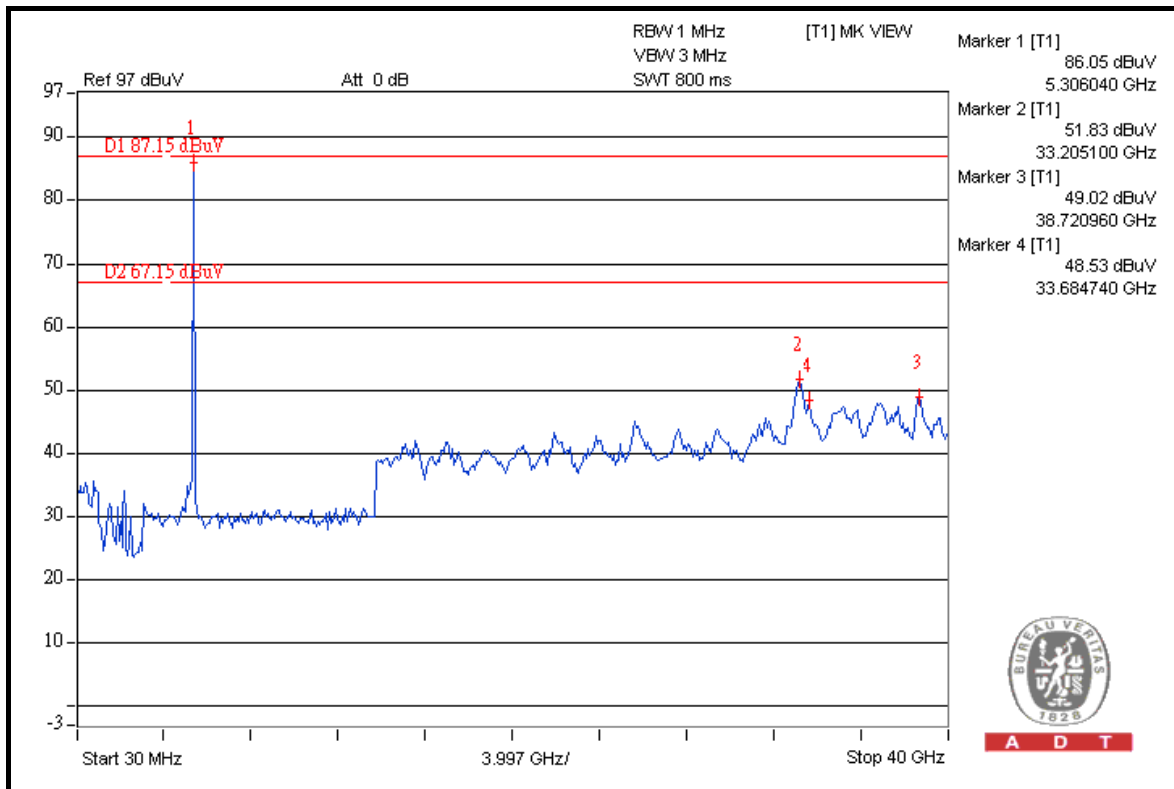
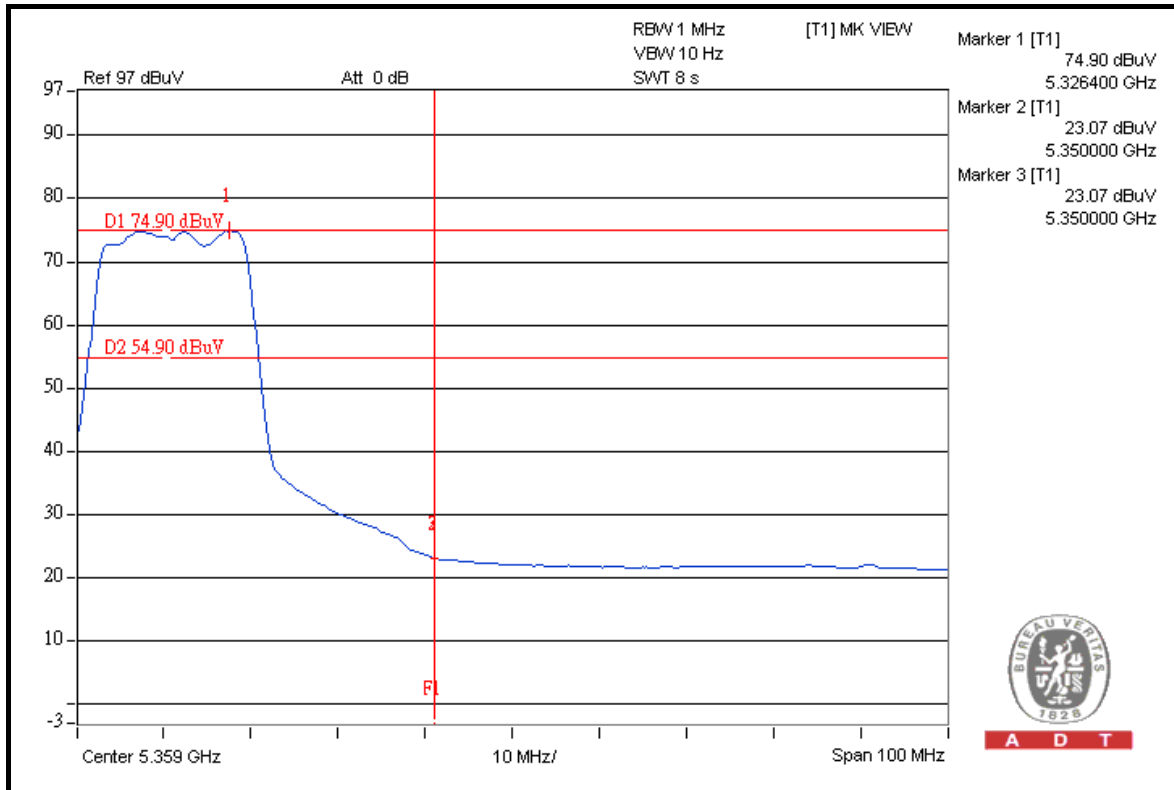


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11a**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	113.9	49.62	64.28	74.00
5500.00 (AV)	102.2	50.55	51.65	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	113.9	50.37	63.53	68.30

**5700MHz**

**ABOVE 5725 MHz**

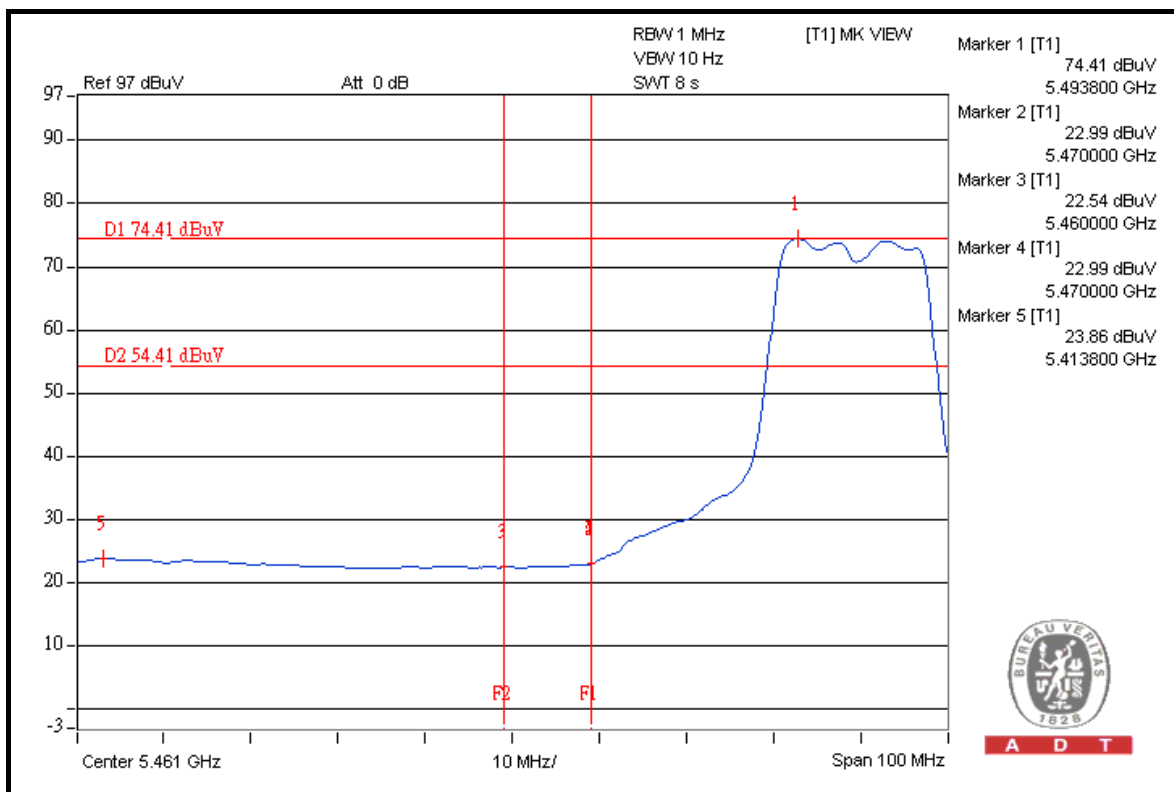
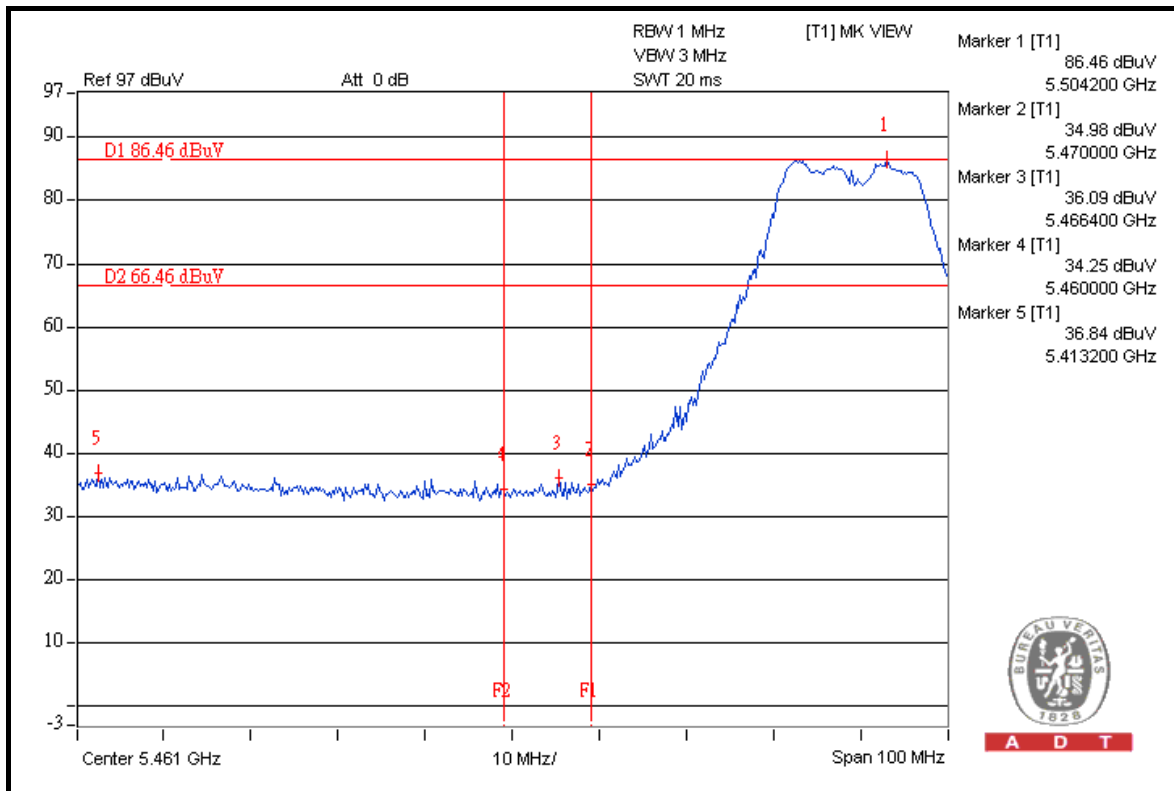
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	112.6	48.73	63.87	68.30

**NOTE:**

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

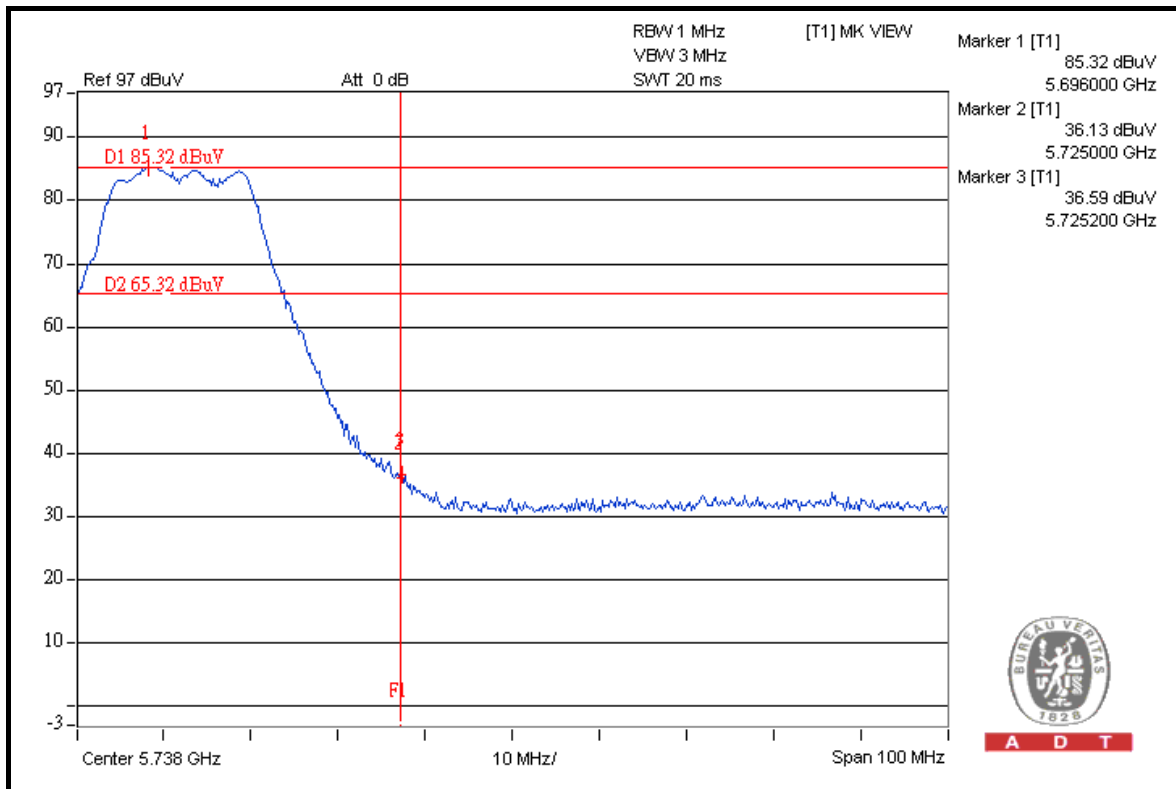
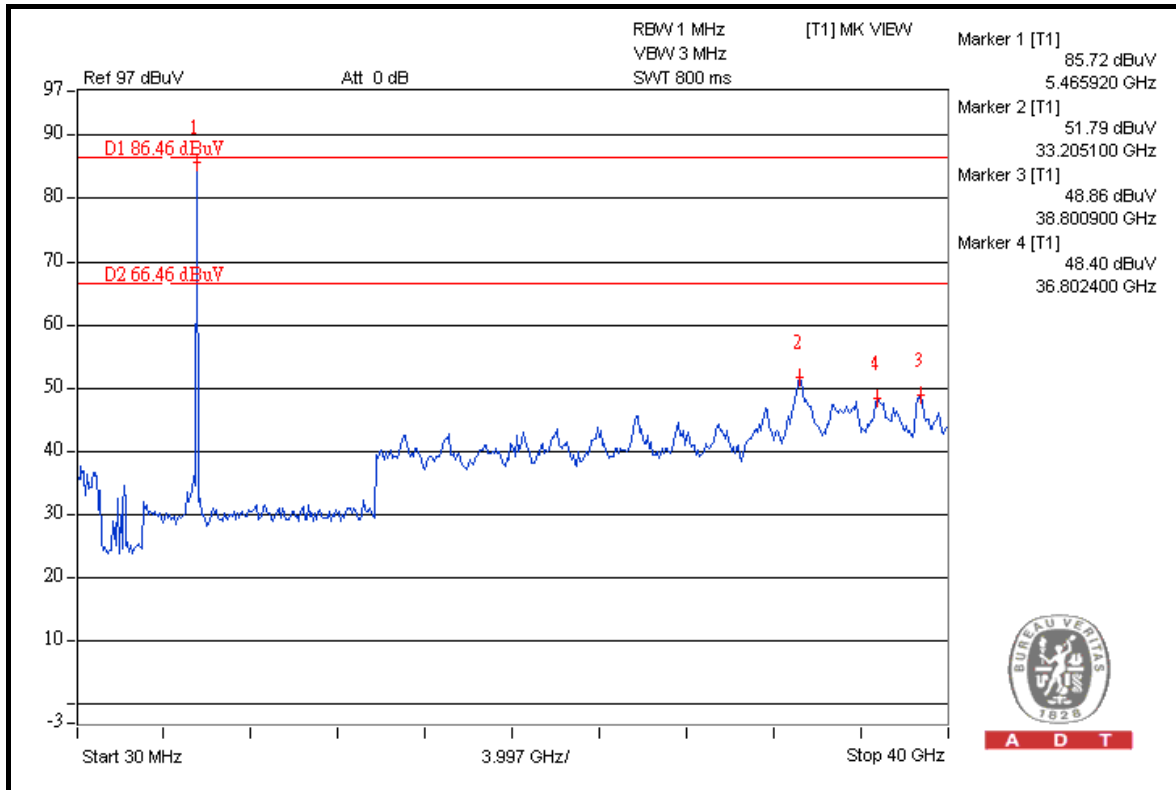


A D T





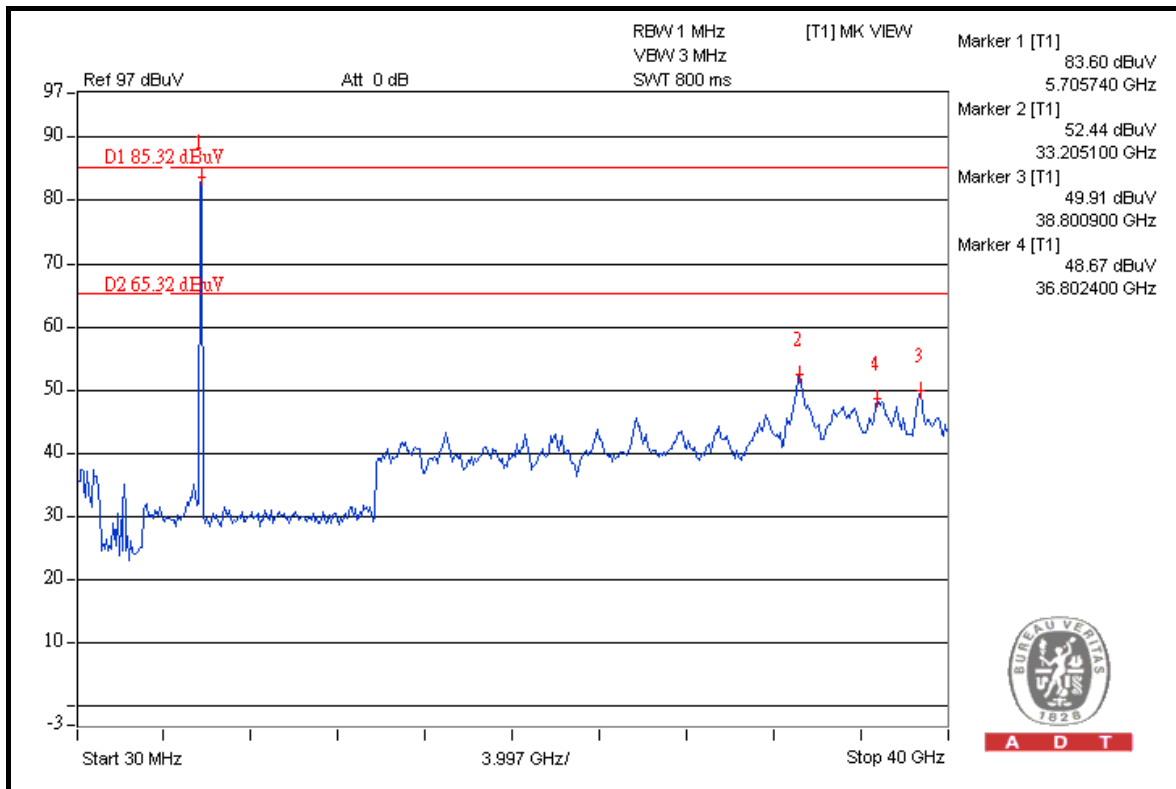
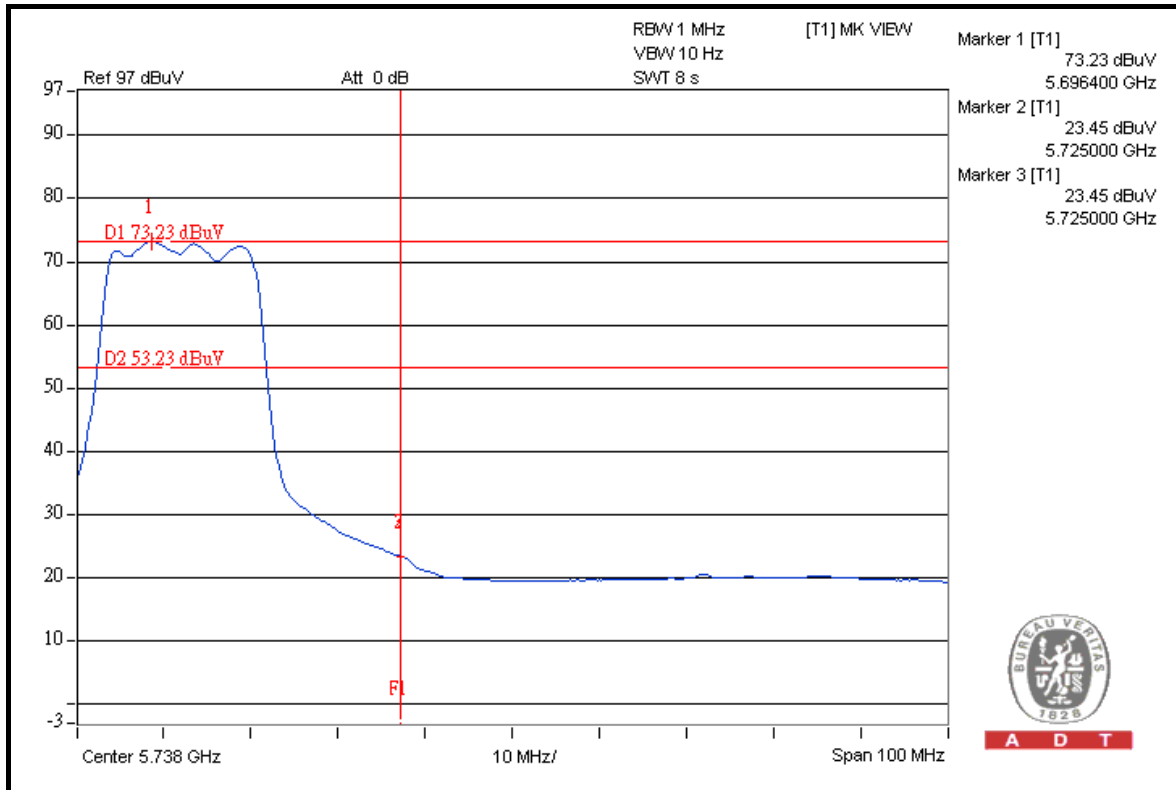
A D T







A D T



**FOR 5260-5320MHz BAND:**

**802.11n (20MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	117.3	53.63	63.67	74.00
5260.00 (AV)	105.4	54.37	51.03	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

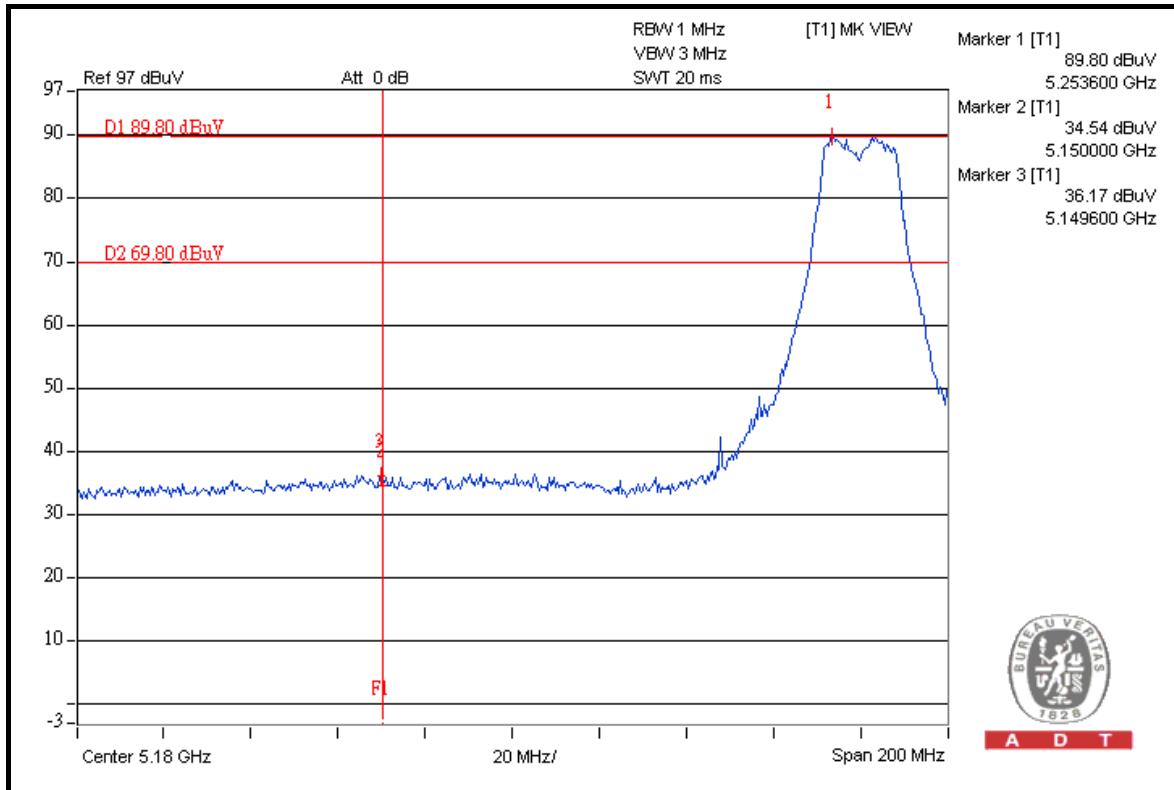
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	116.7	51.43	65.27	74.00
5320.00 (AV)	104.6	53.66	50.94	54.00

**NOTE:**

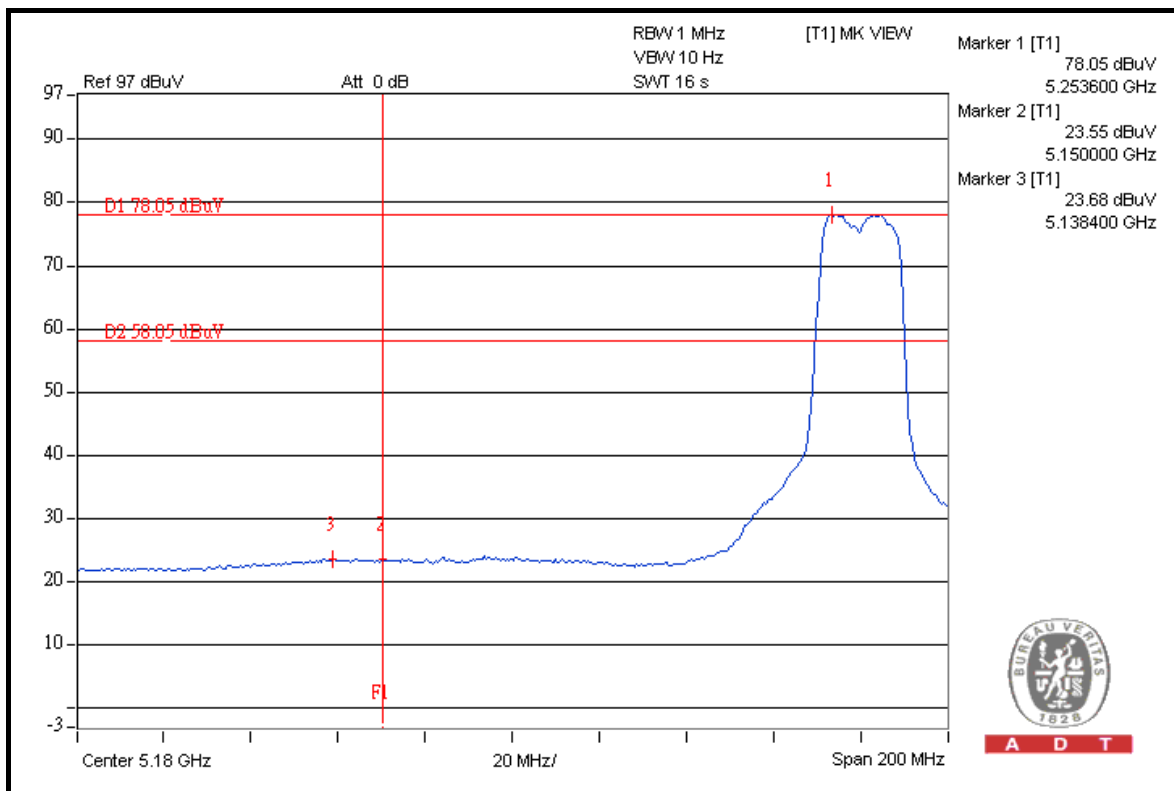
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



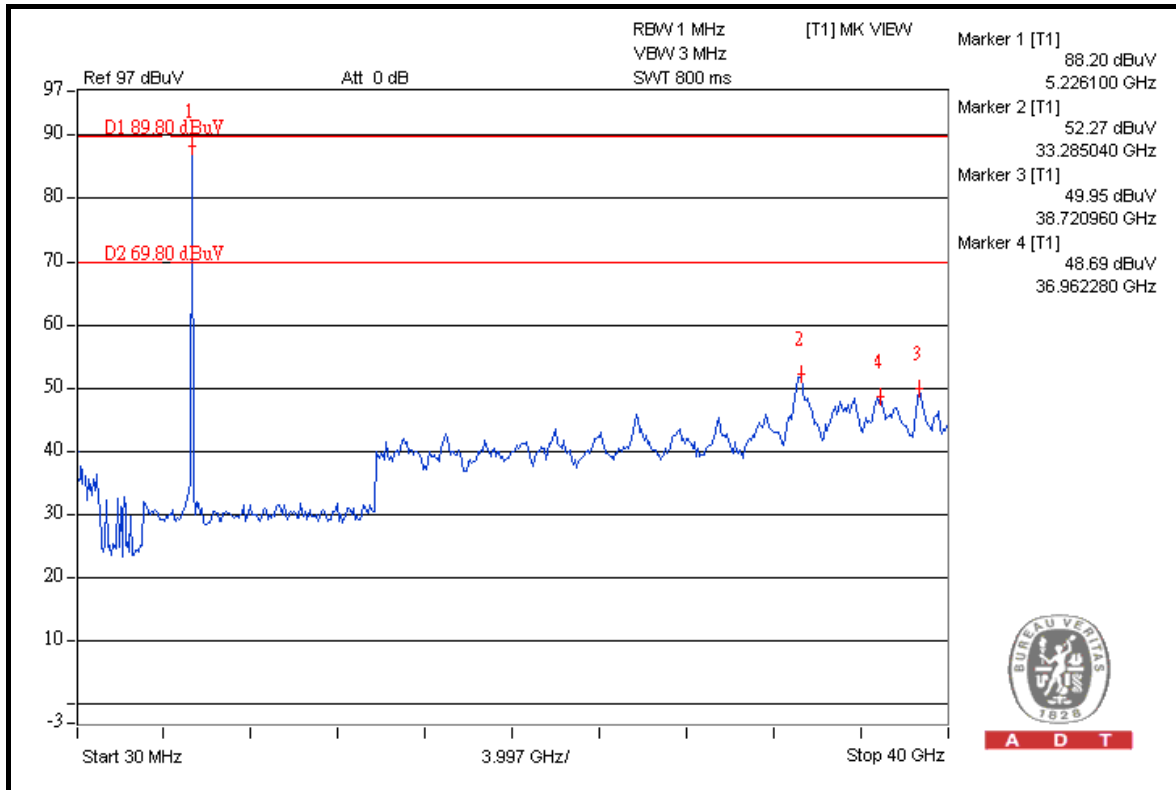
A D T



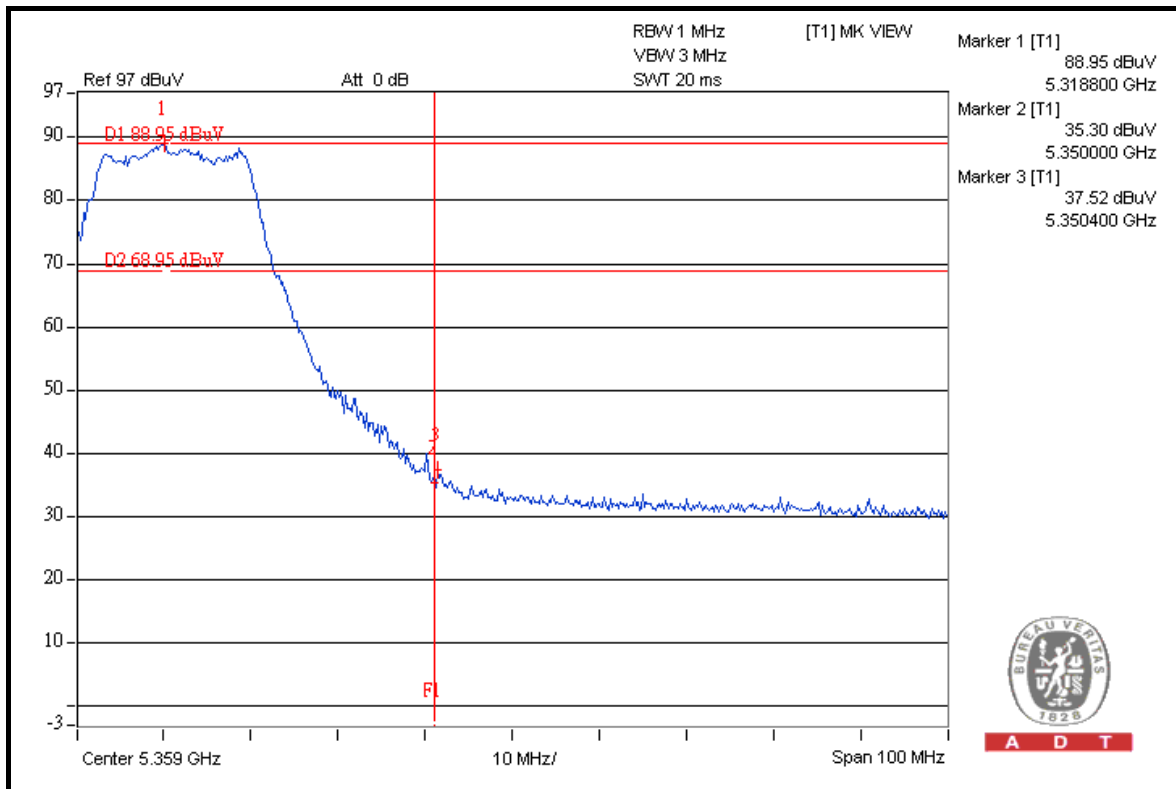
A D T



A D T



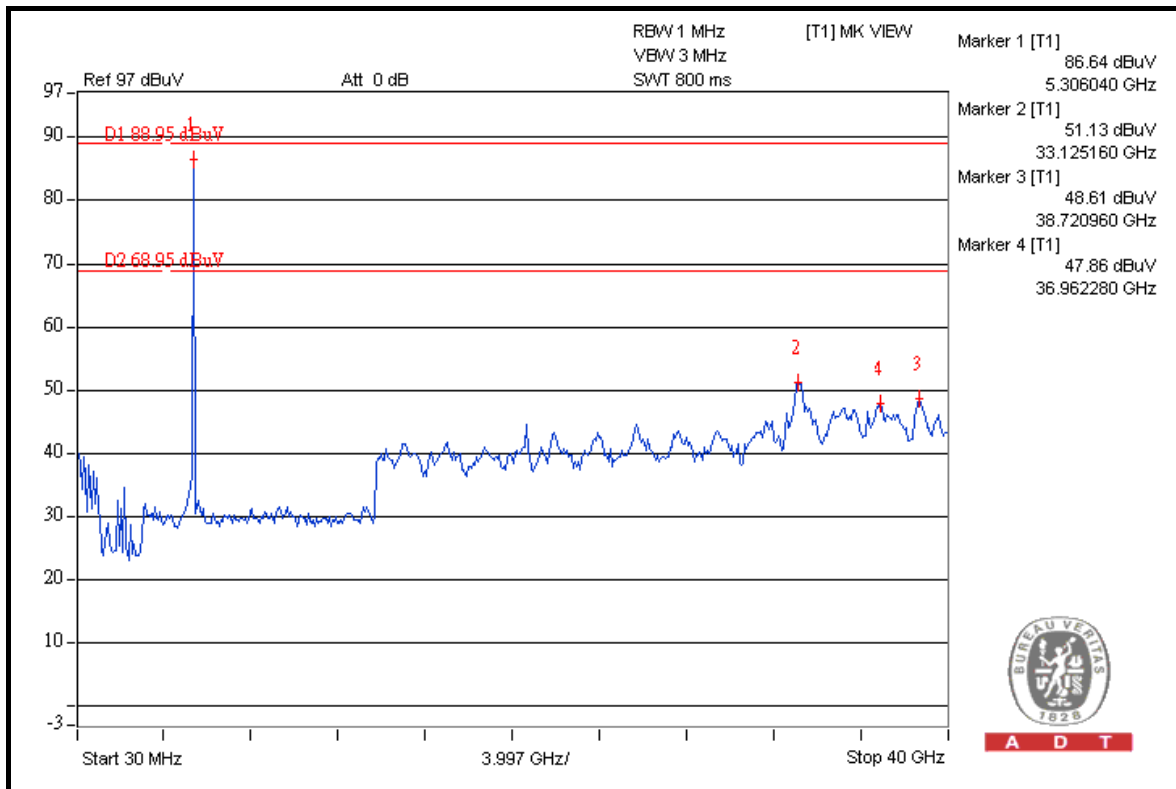
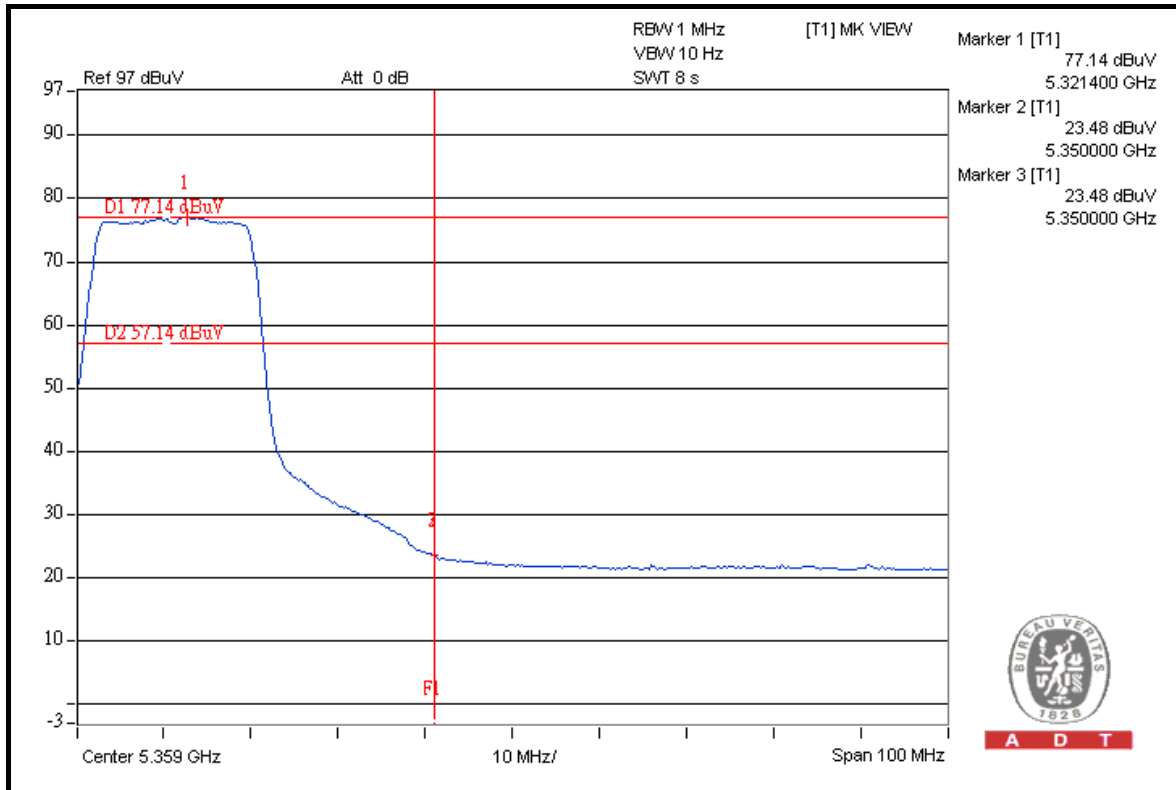
A D T



A D T



A D T



**FOR 5500-5700MHz BAND:**

**802.11n (20MHz)**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	116.5	53.67	62.83	74.00
5500.00 (AV)	104.2	54.72	49.48	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	116.5	51.01	65.49	68.30

**5700MHz**

**ABOVE 5725 MHz**

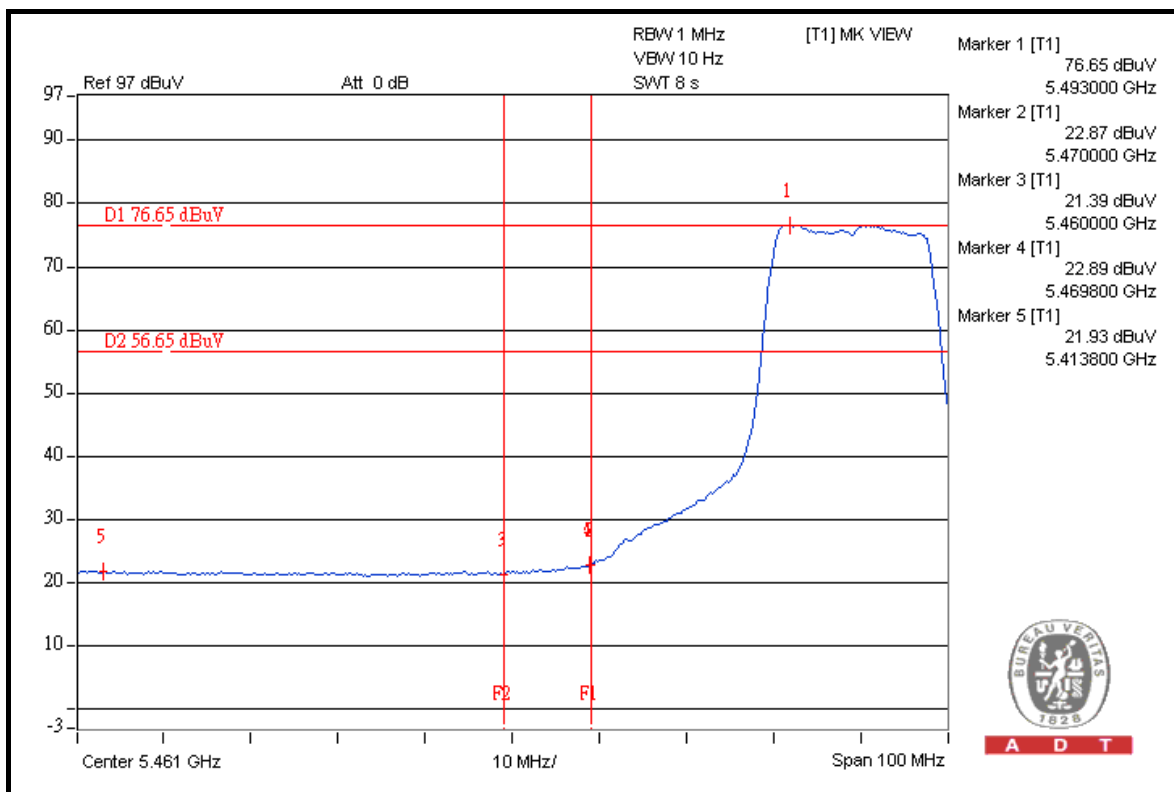
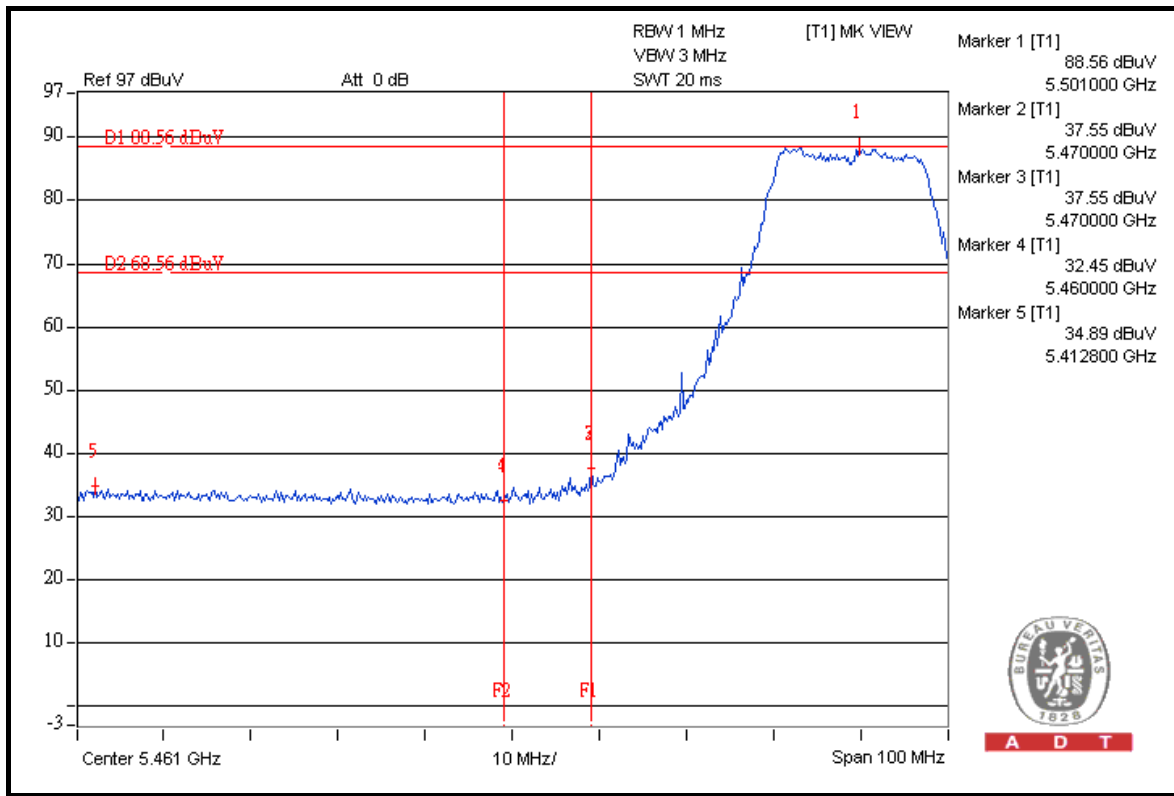
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	115.5	49.50	66.00	68.30

**NOTE:**

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

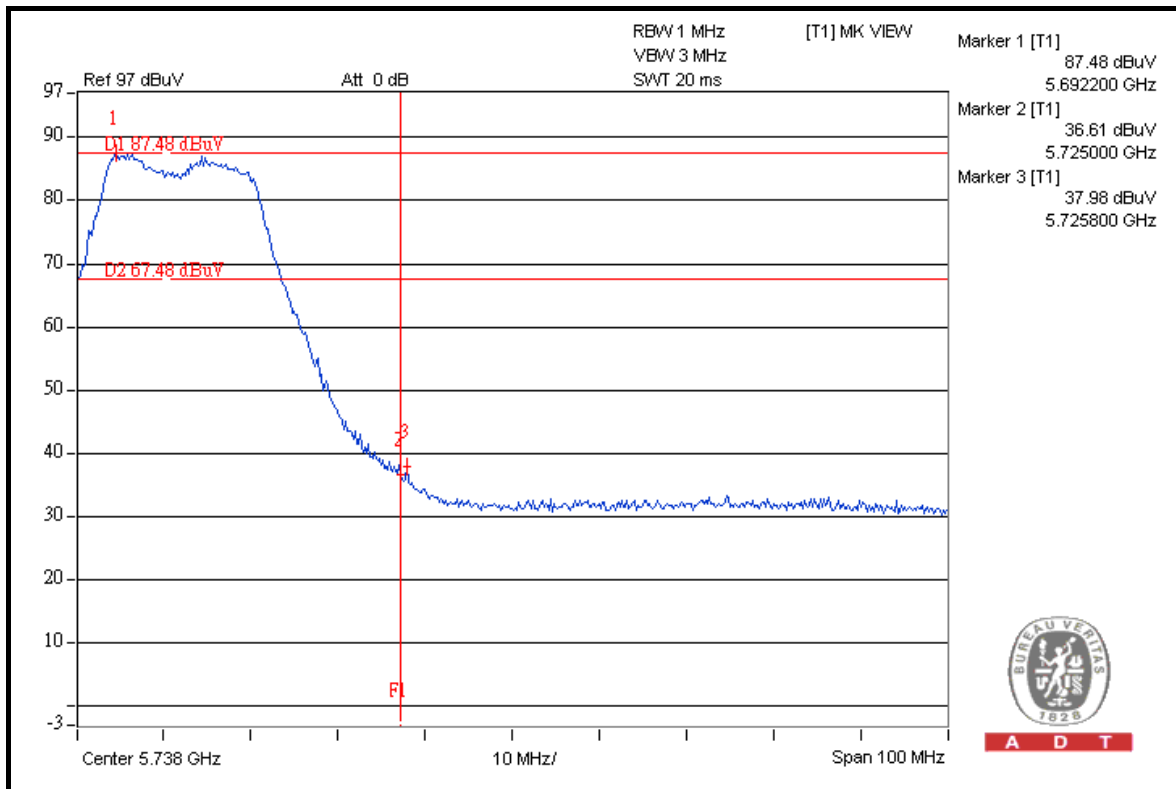
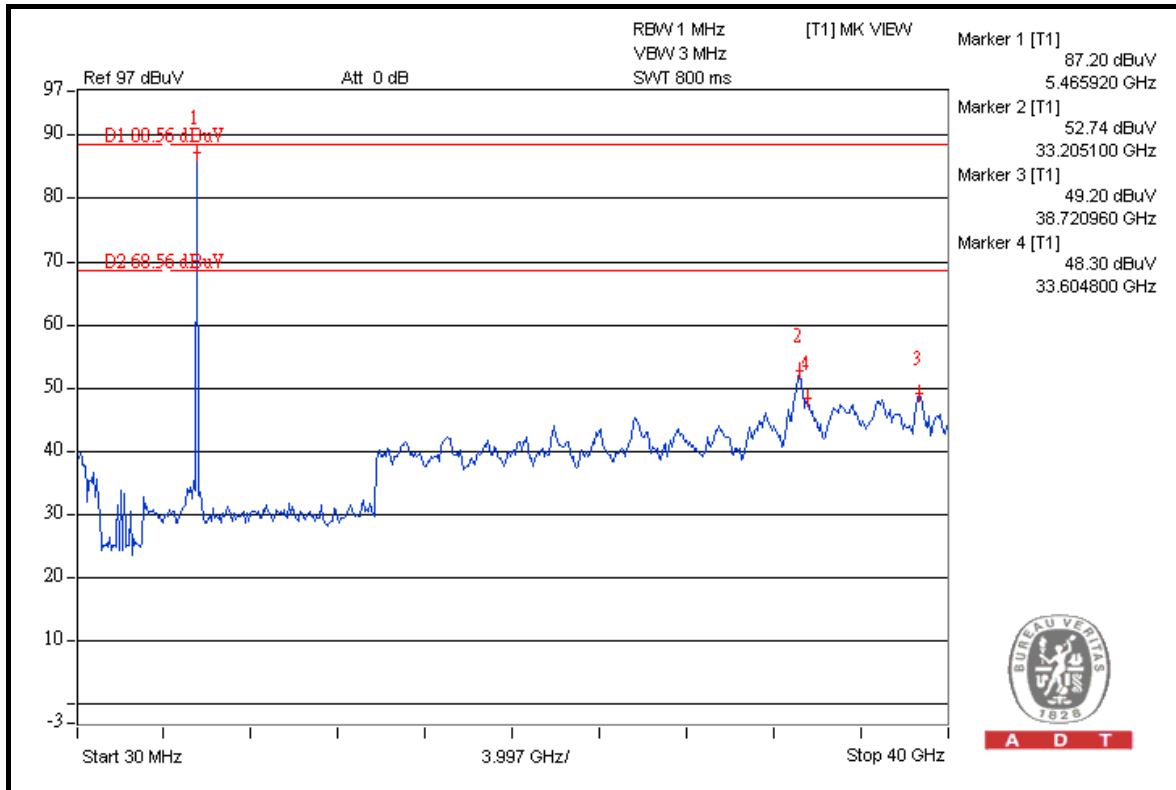


A D T





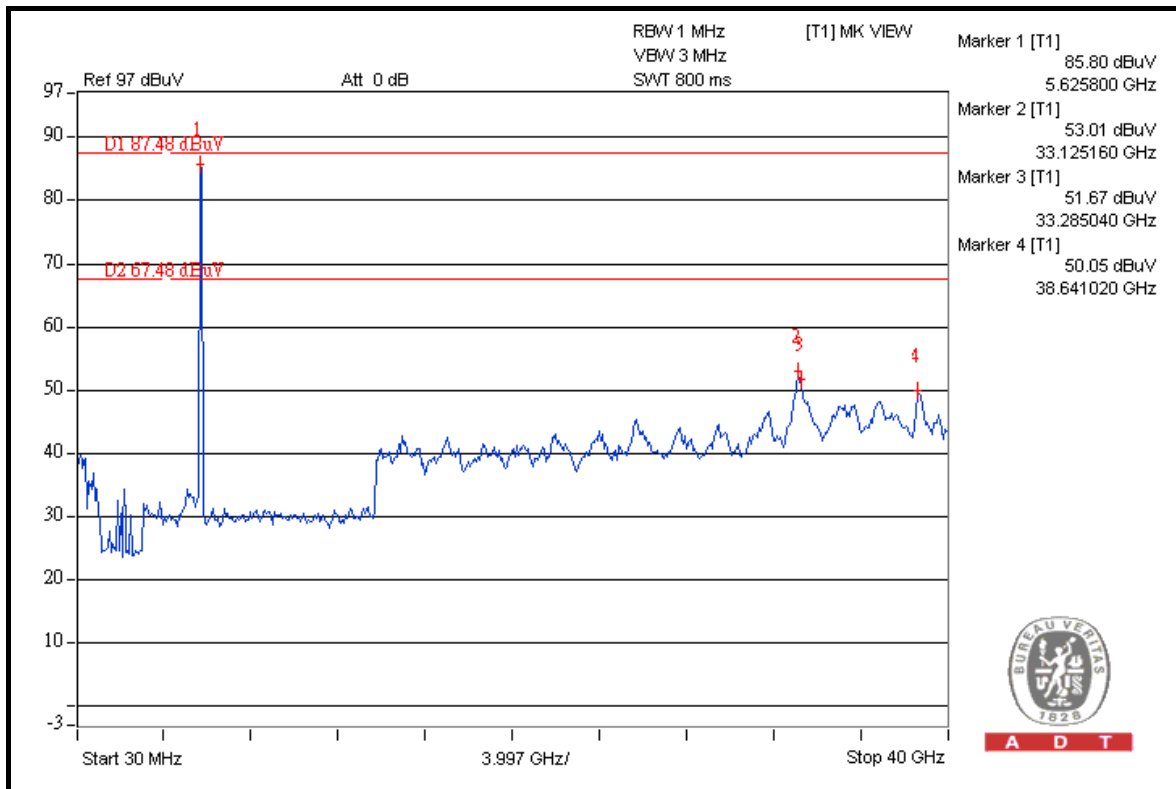
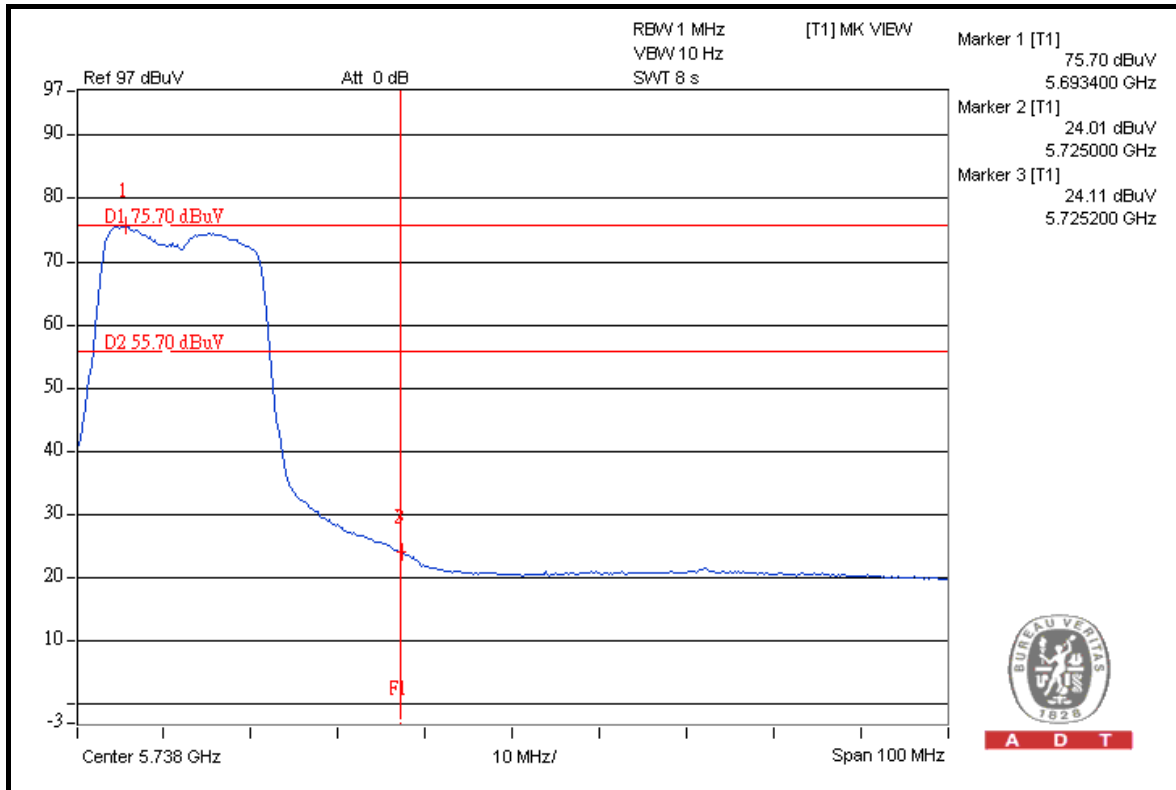
A D T







A D T



**802.11n (40MHz)**

**FOR 5260-5320MHz BAND:**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5270.00 (PK)	114.5	49.72	64.78	74.00
5270.00 (AV)	101.3	50.08	51.22	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

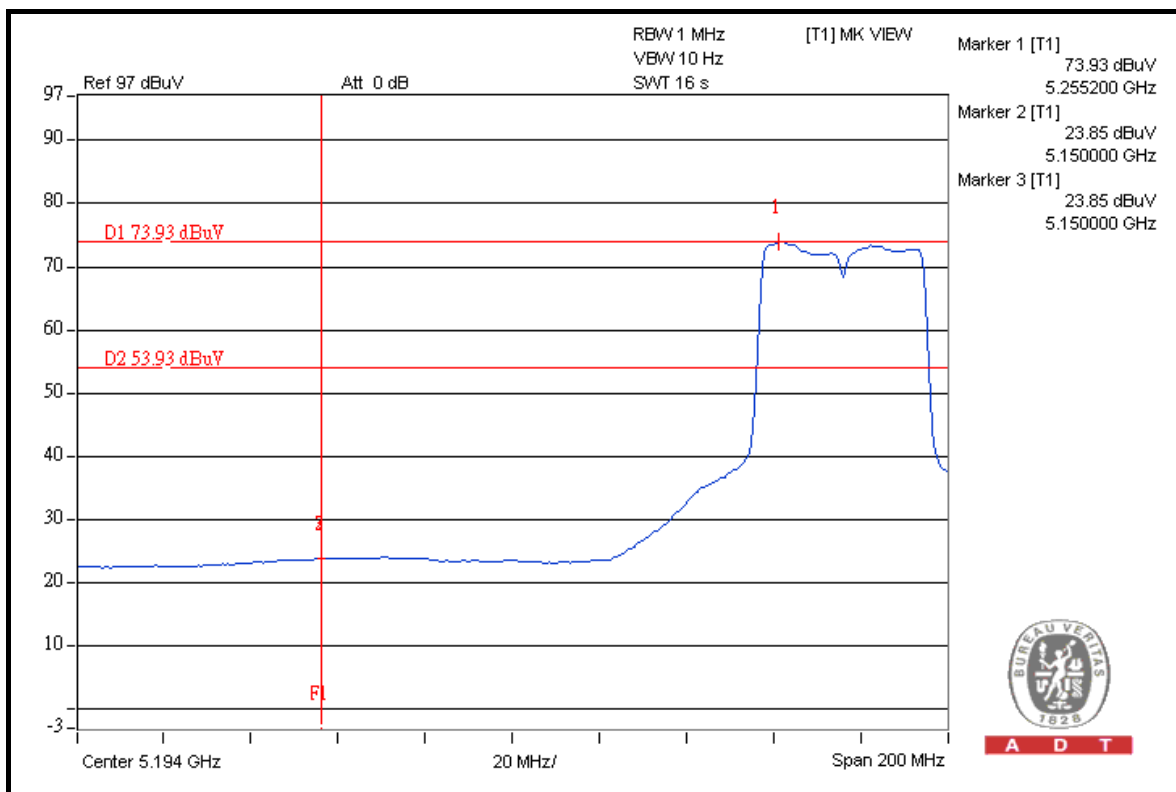
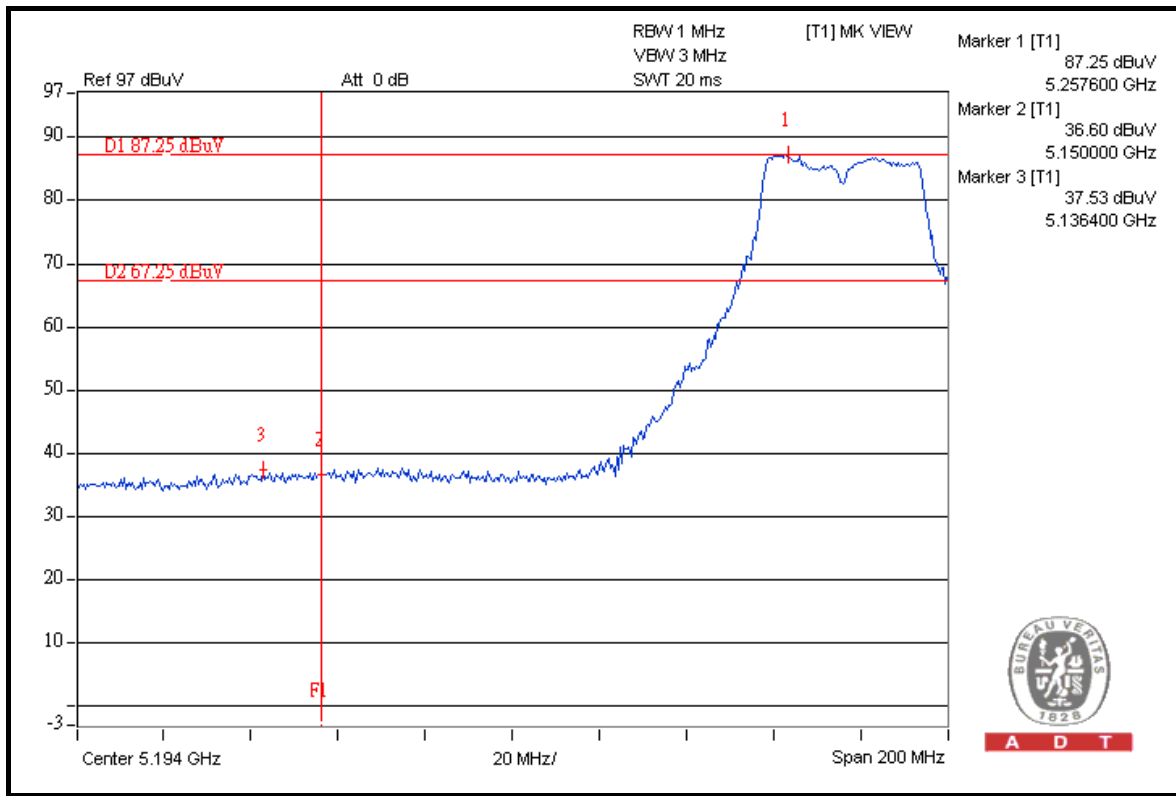
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5310.00 (PK)	114.2	41.27	72.93	74.00
5310.00 (AV)	101.0	48.93	52.07	54.00

**NOTE:**

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

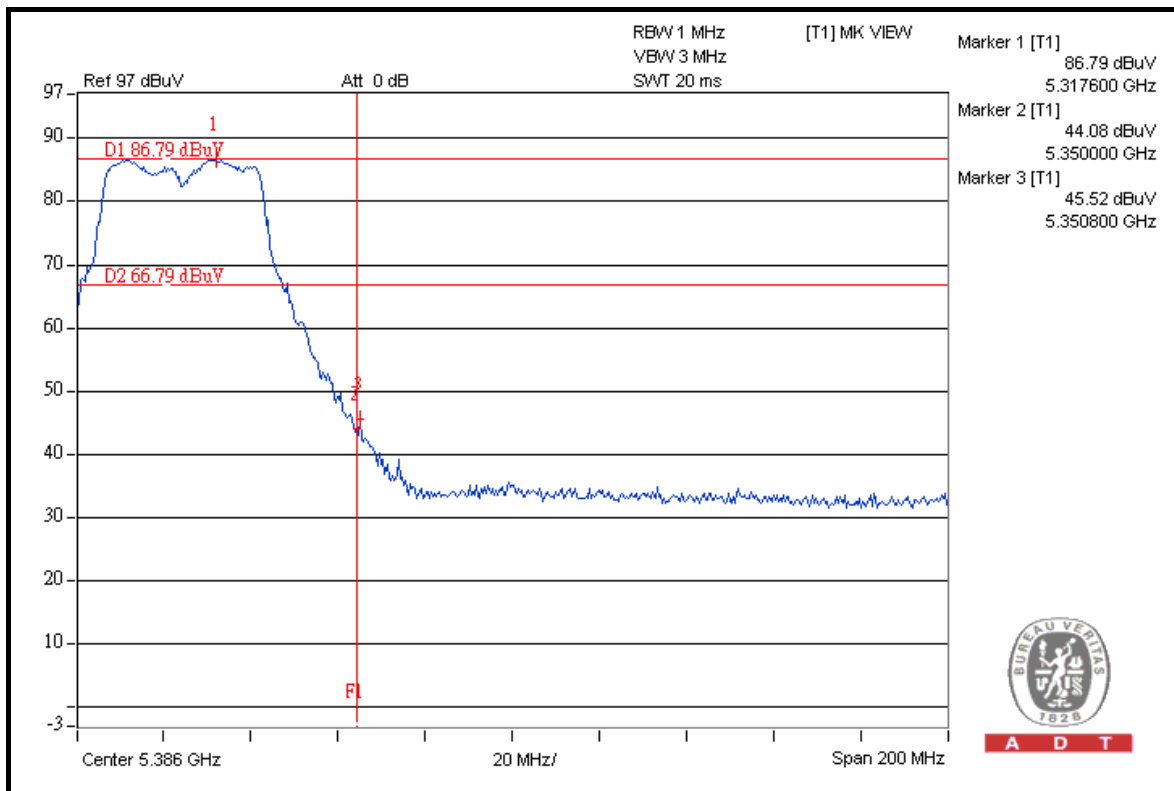
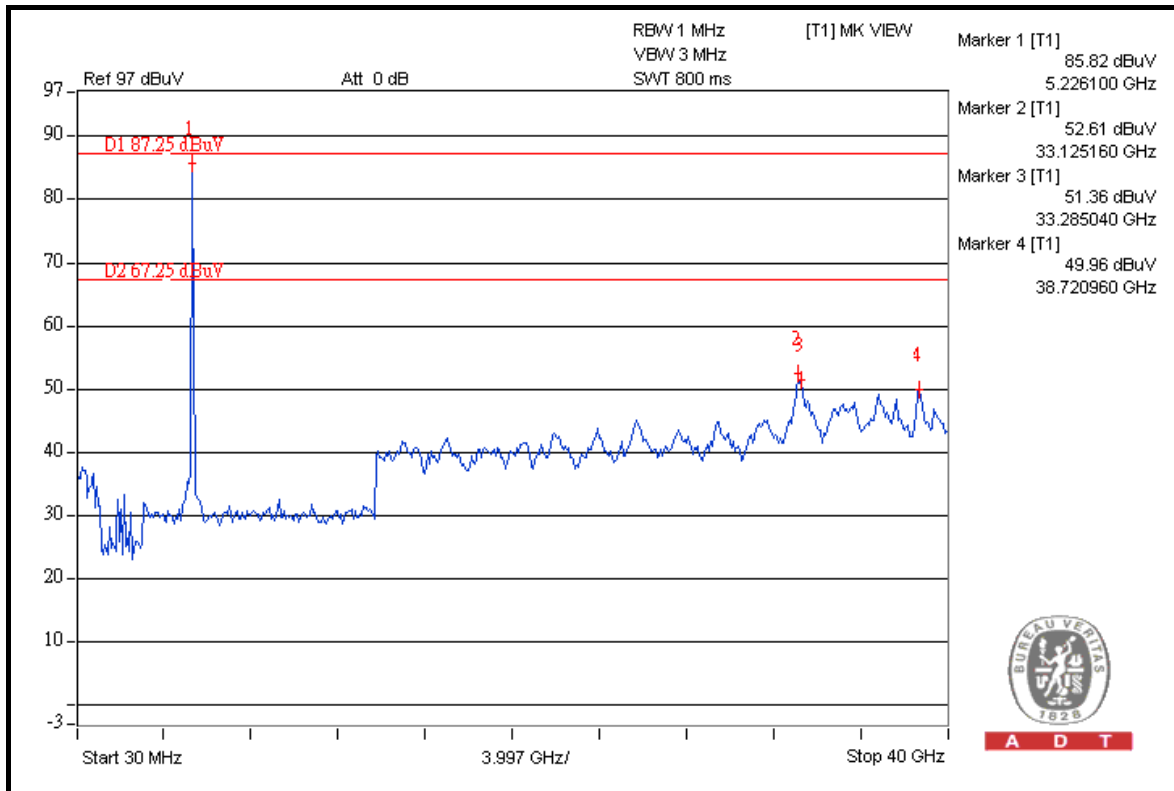


A D T



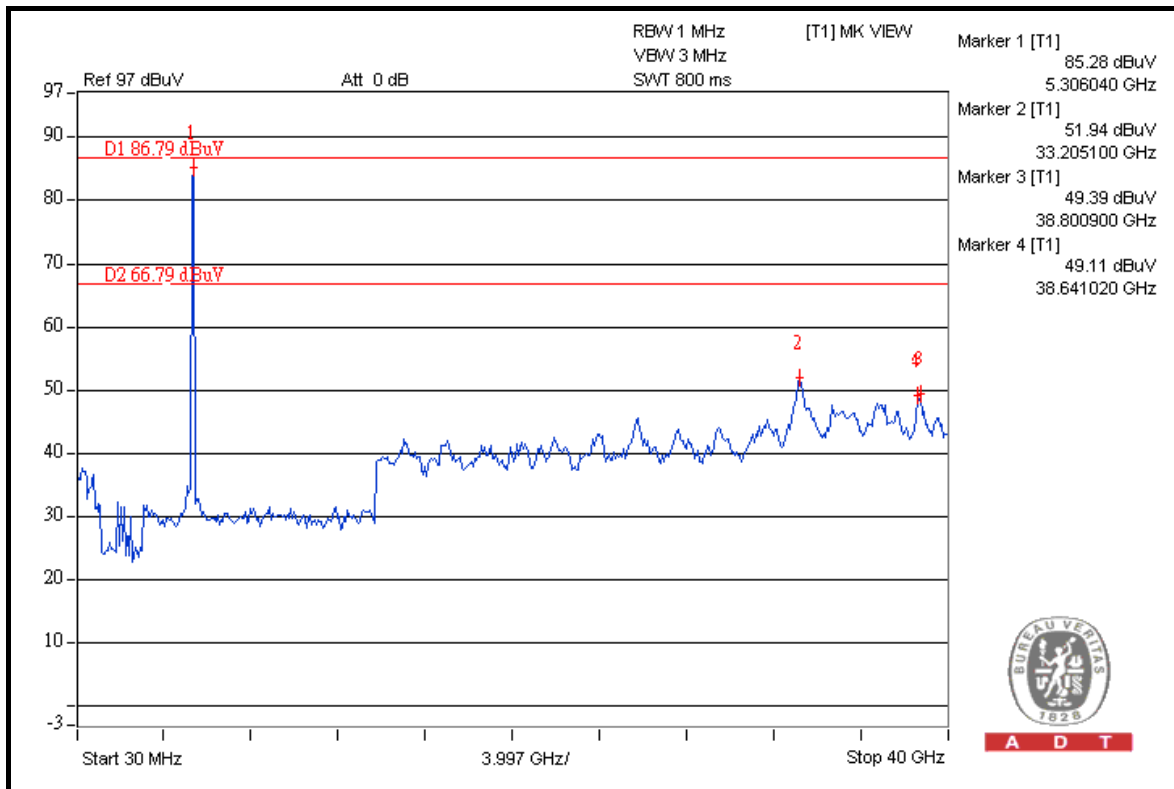
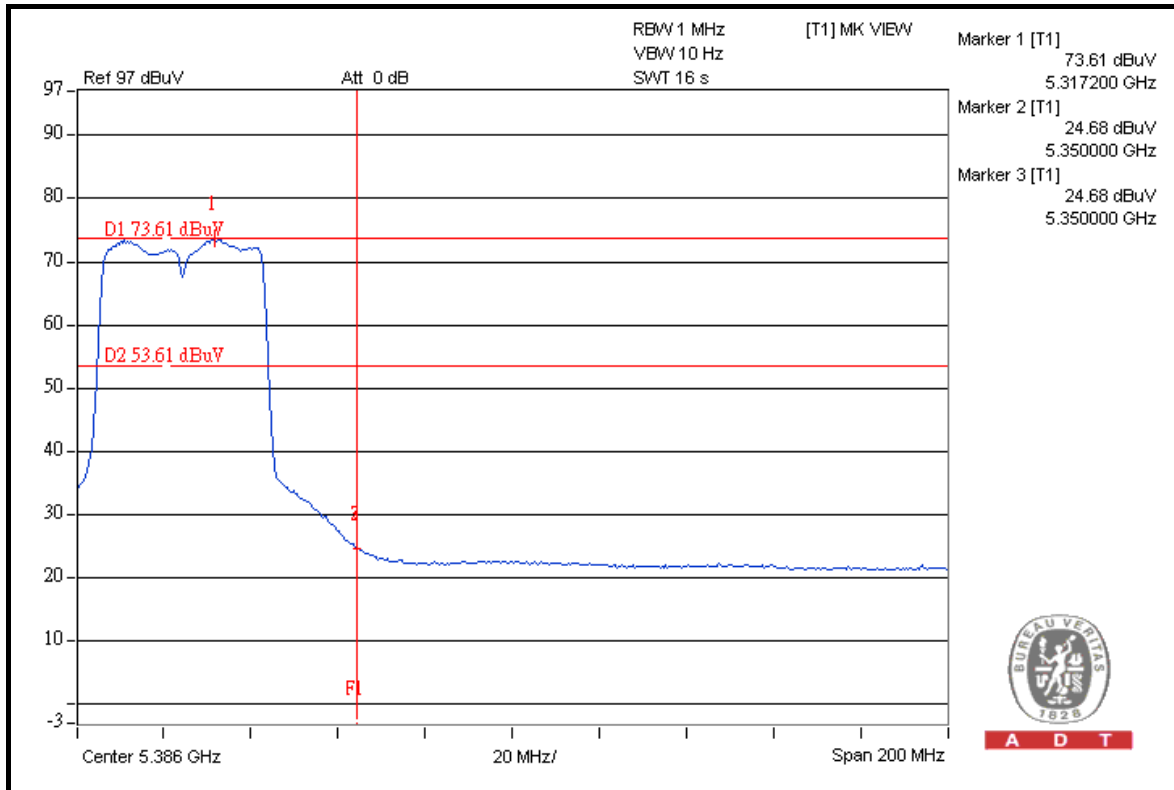


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (40MHz)**

**5510MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	112.2	45.83	66.37	74.00
5510.00 (AV)	99.1	46.12	52.98	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

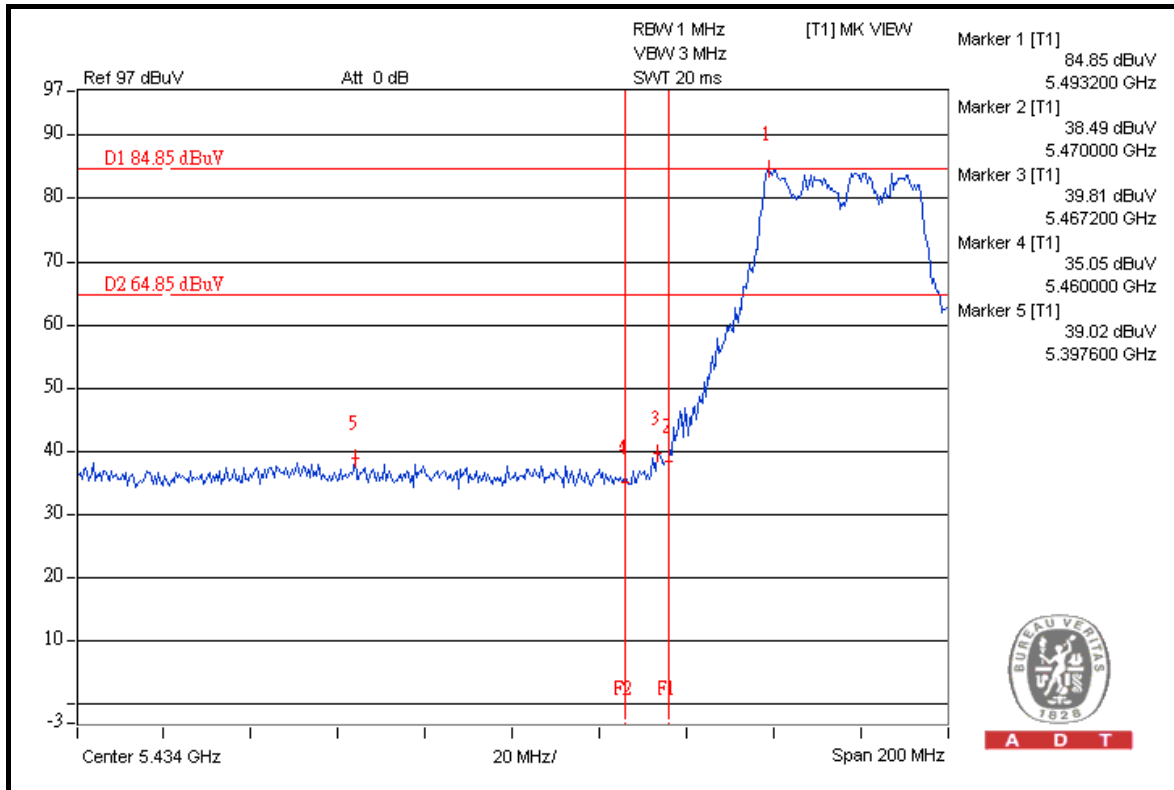
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	112.2	45.04	67.16	68.30

**NOTE:**

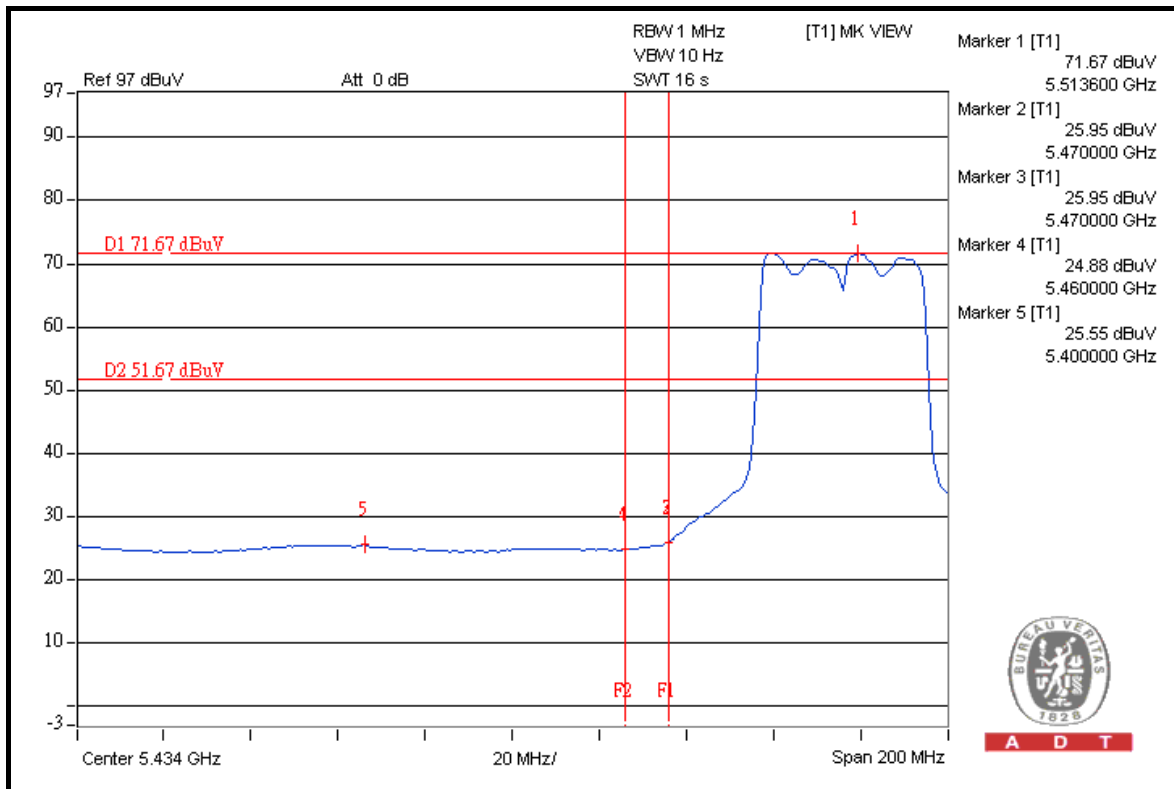
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



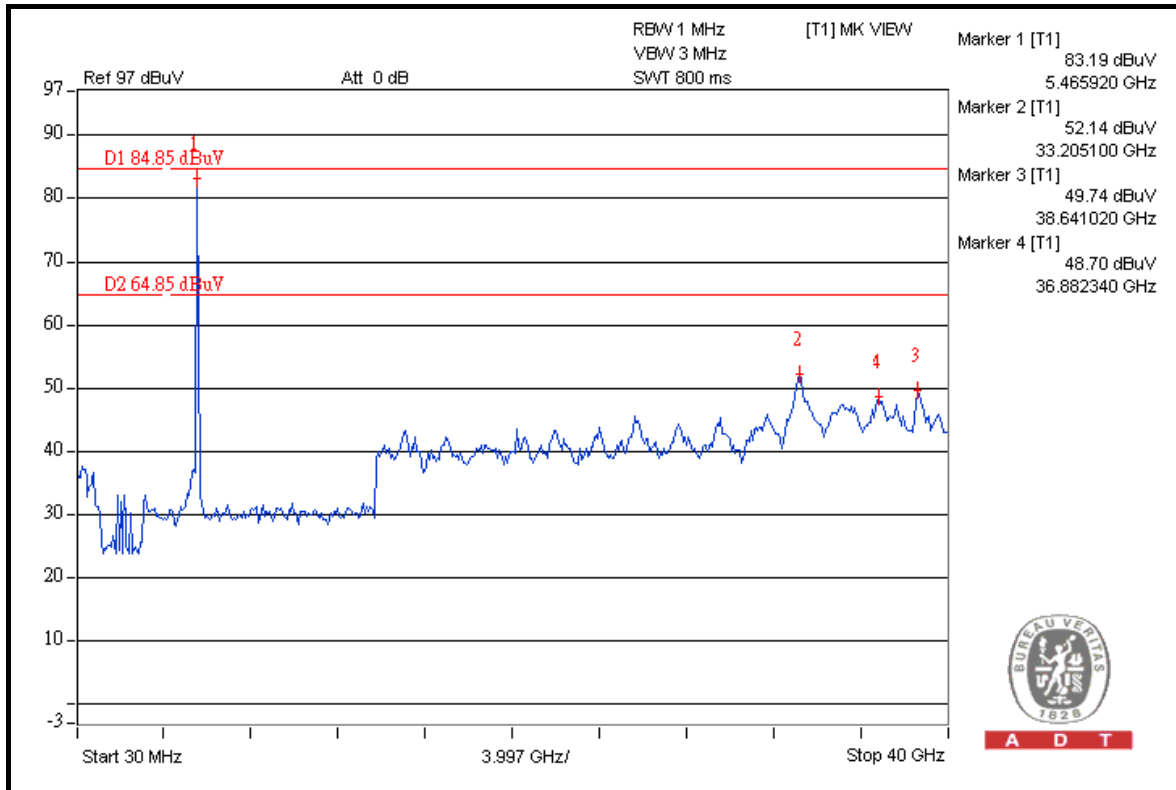
A D T



A D T



A D T



A D T



#### 4.7.6 TEST RESULTS (B1)

For signals in the restricted bands above and below the 5.26 to 5.32GHz, 5.50 to 5.70GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

#### FOR 5260-5320MHz BAND: 802.11a

##### RESTRICT BAND (4500 ~ 5150 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	116.4	55.44	60.96	74.00
5260.00 (AV)	104.3	56.05	48.25	54.00

##### RESTRICT BAND (5350 ~ 5460 MHz)

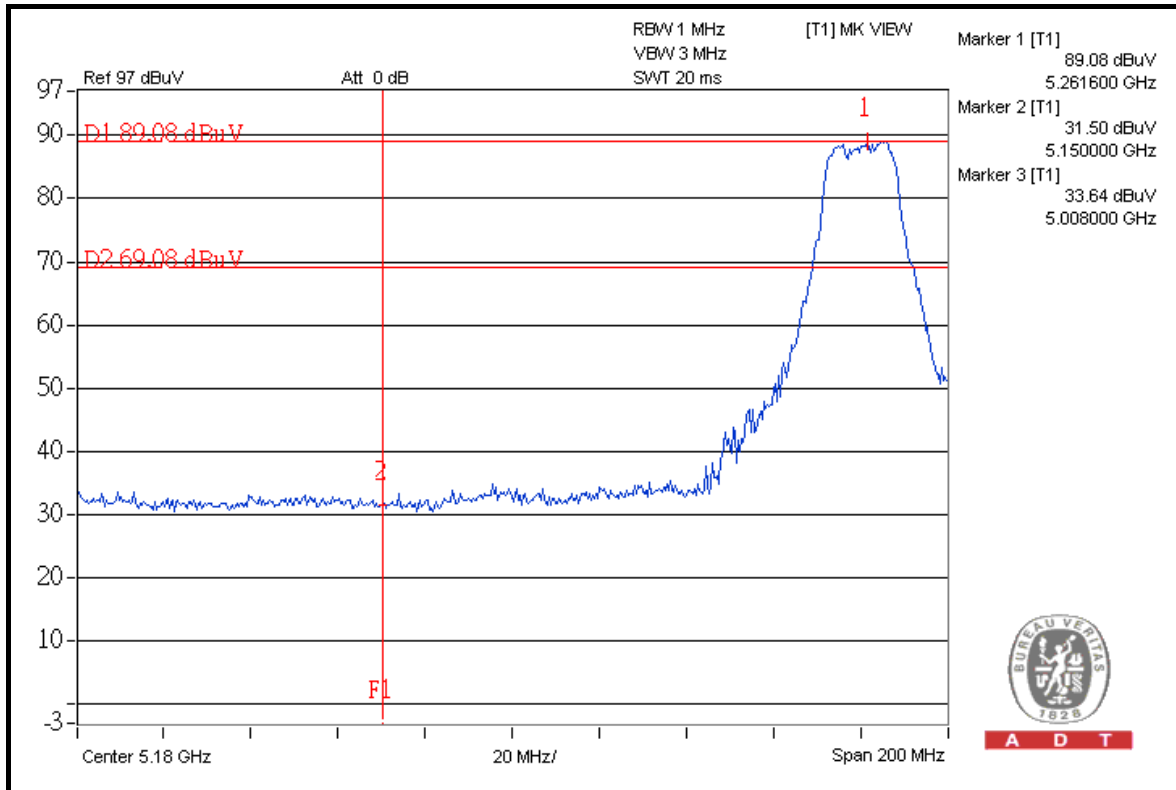
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	115.7	51.93	63.77	74.00
5320.00 (AV)	103.7	53.60	50.10	54.00

#### NOTE:

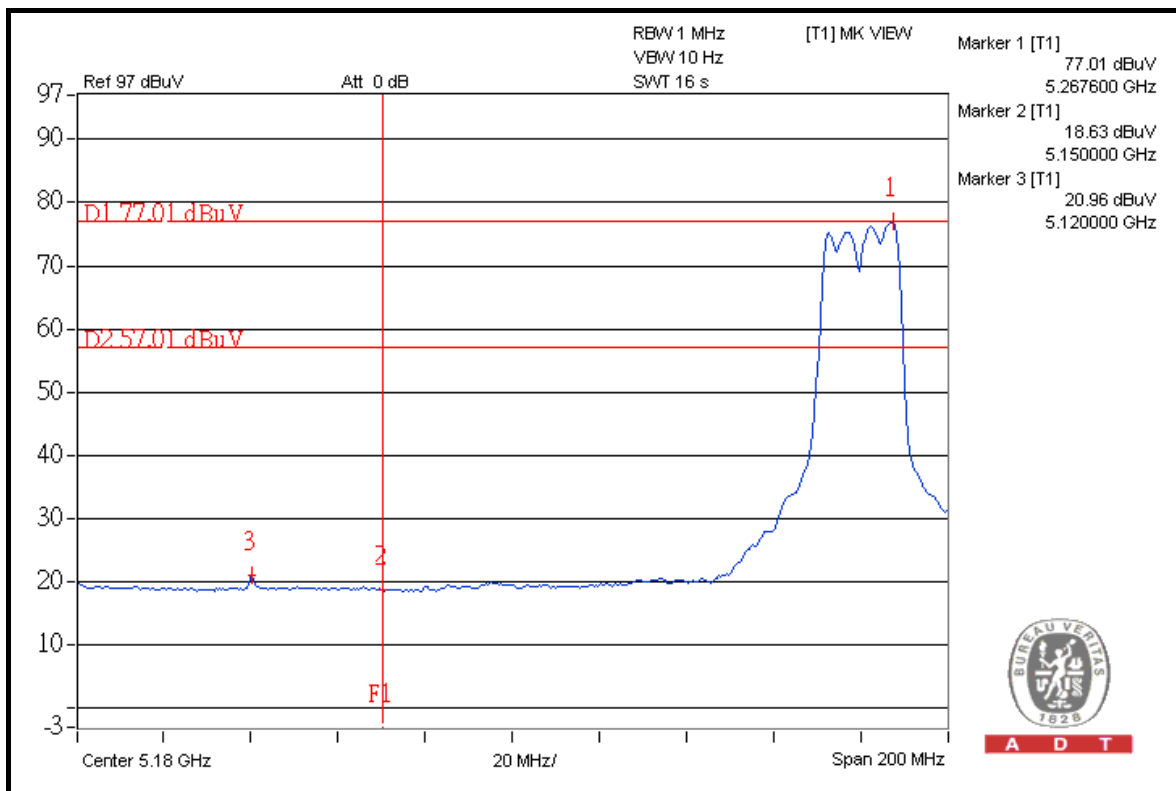
- Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
- Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



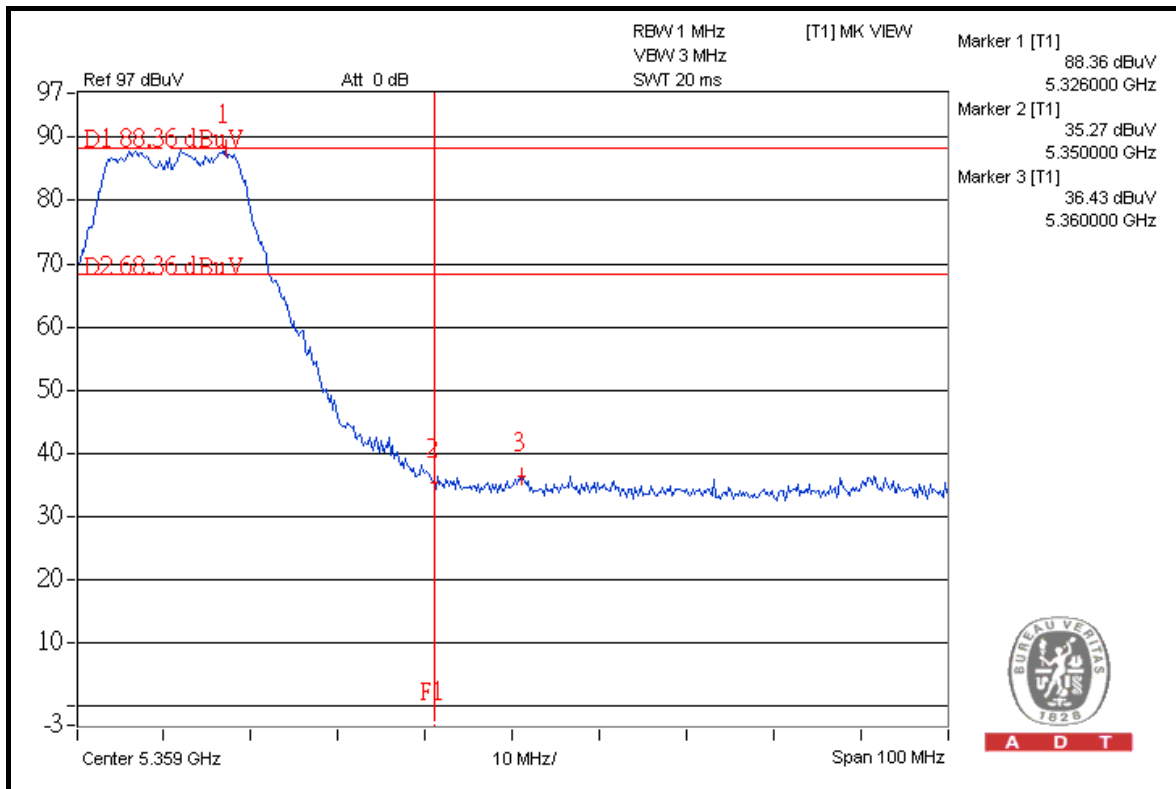
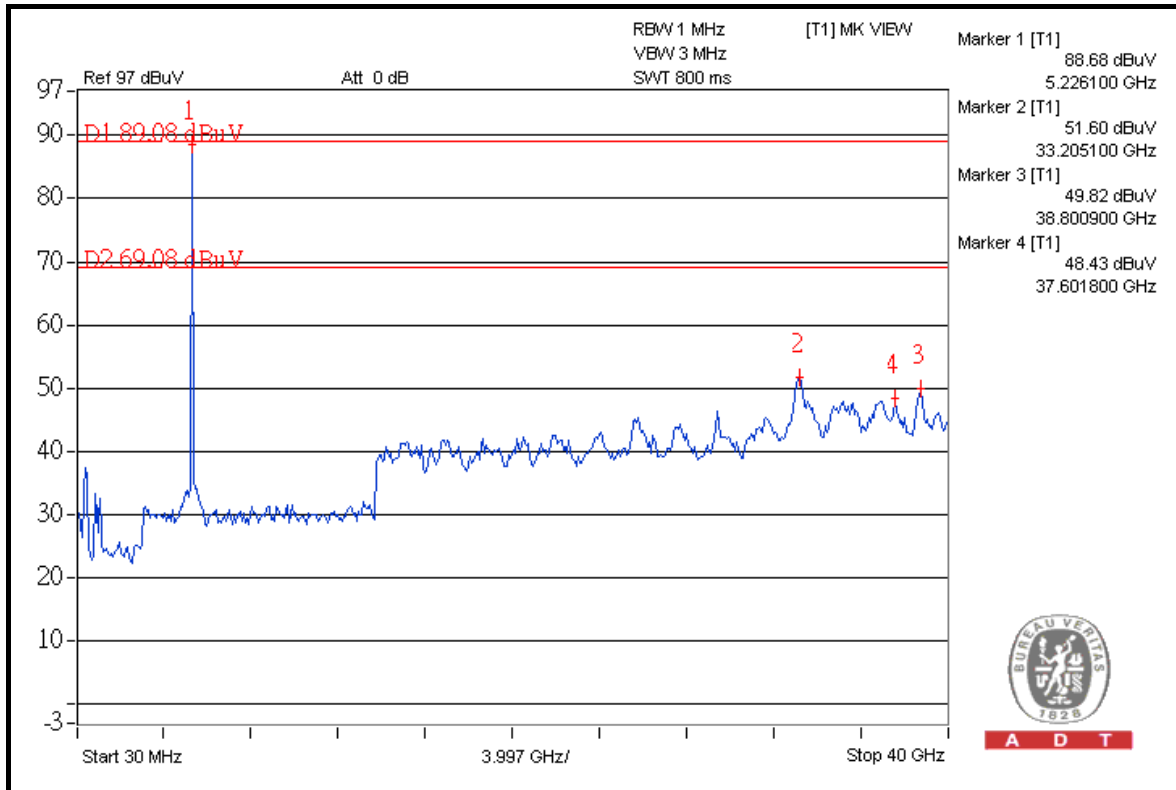
A D T



A D T

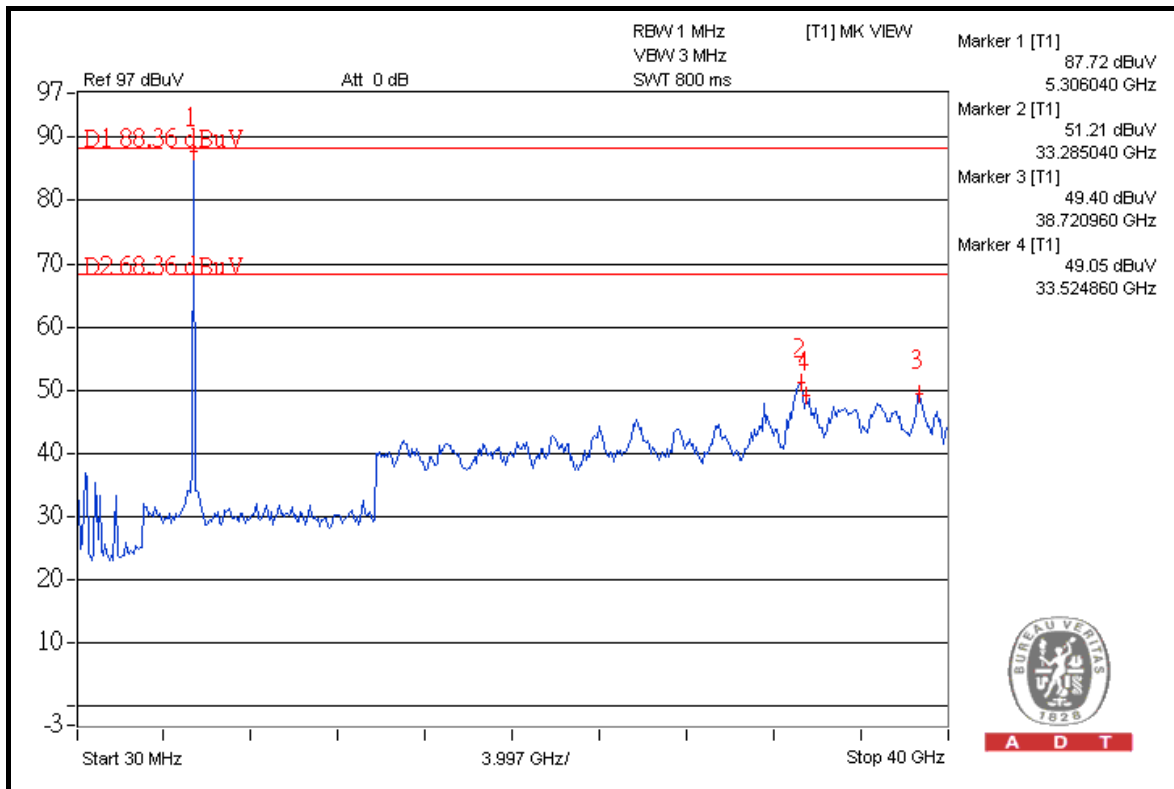
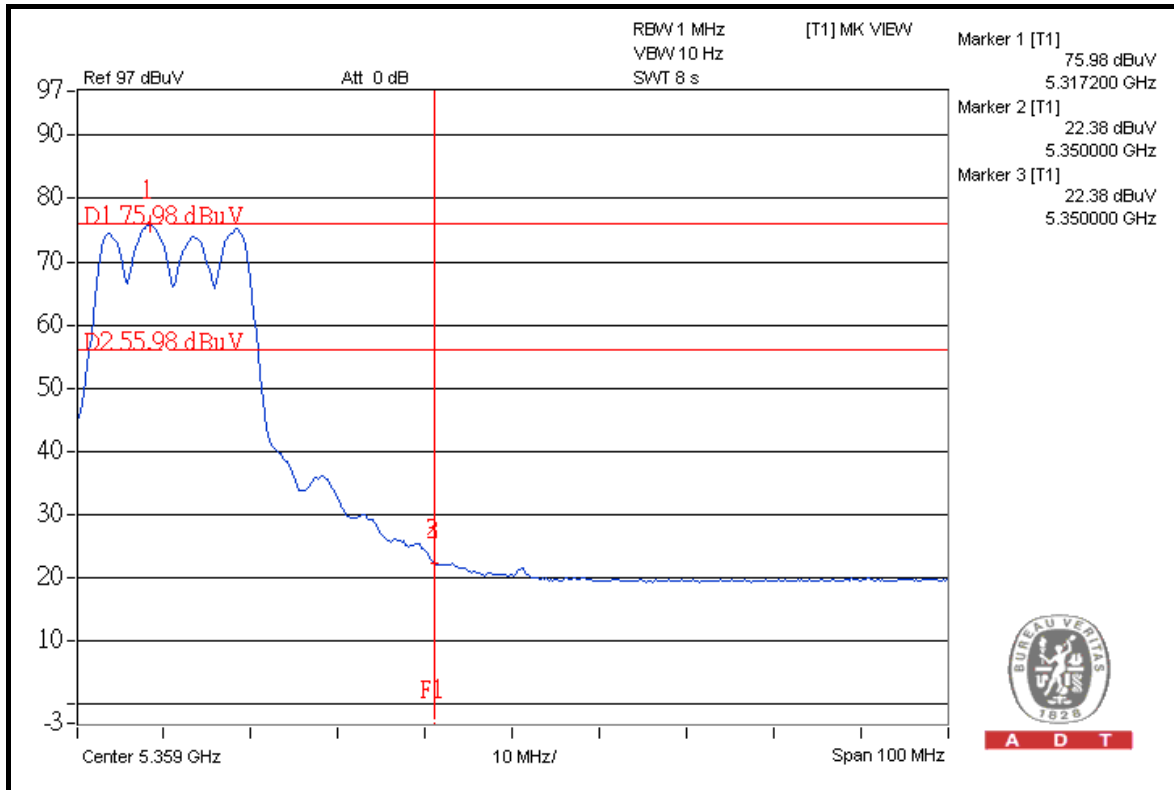


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11a**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.3	54.07	61.23	74.00
5500.00 (AV)	103.4	55.62	47.78	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.3	52.92	62.38	68.30

**5700MHz**

**ABOVE 5725 MHz**

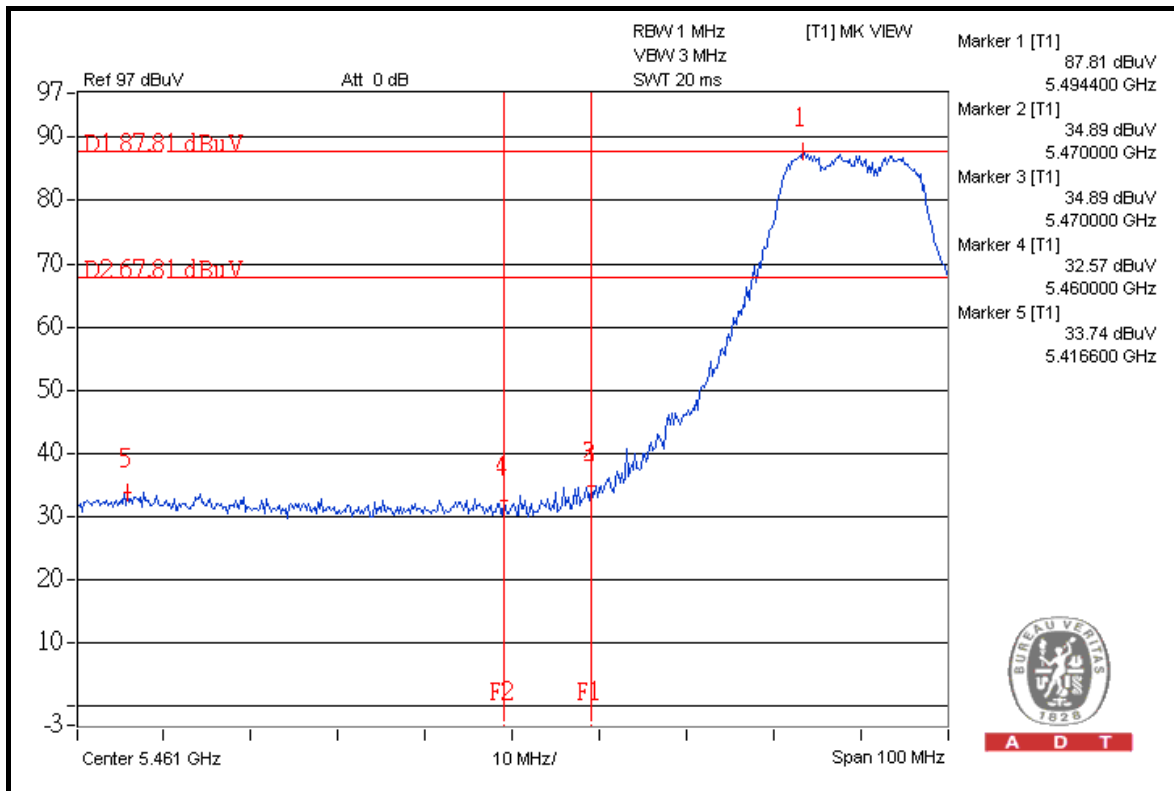
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	112.7	46.99	65.71	68.30

**NOTE:**

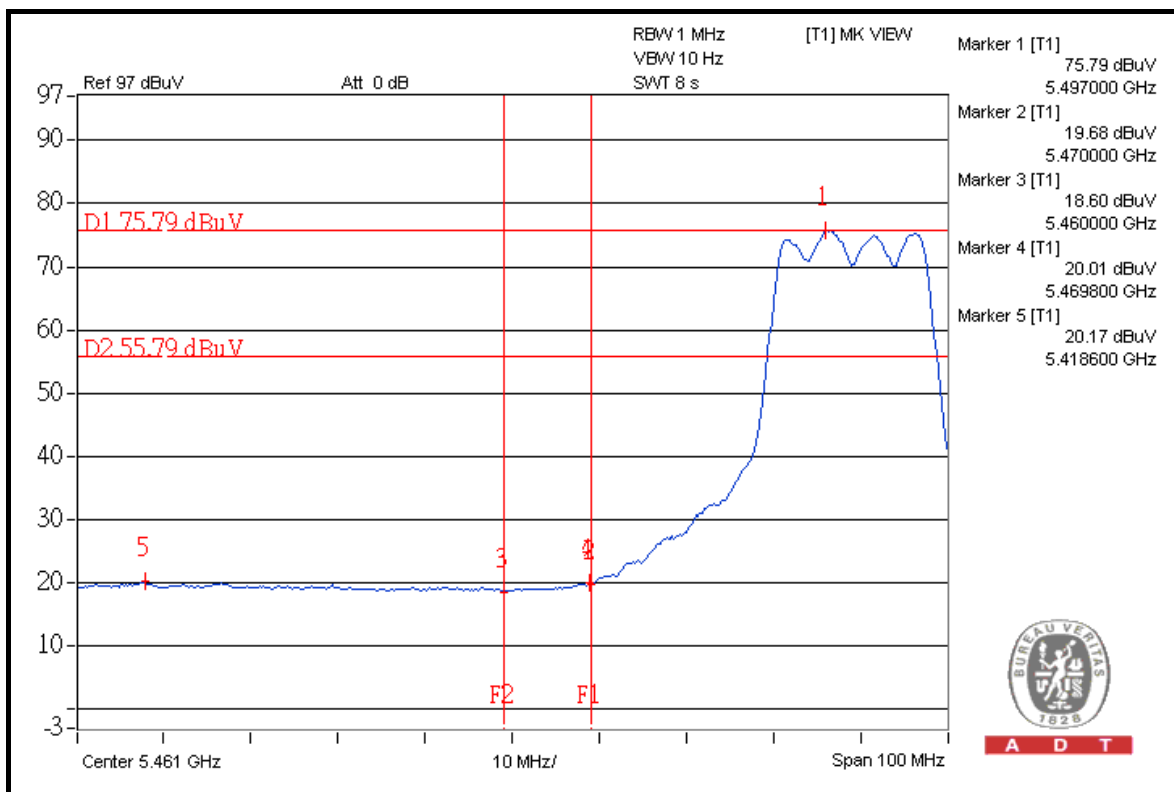
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



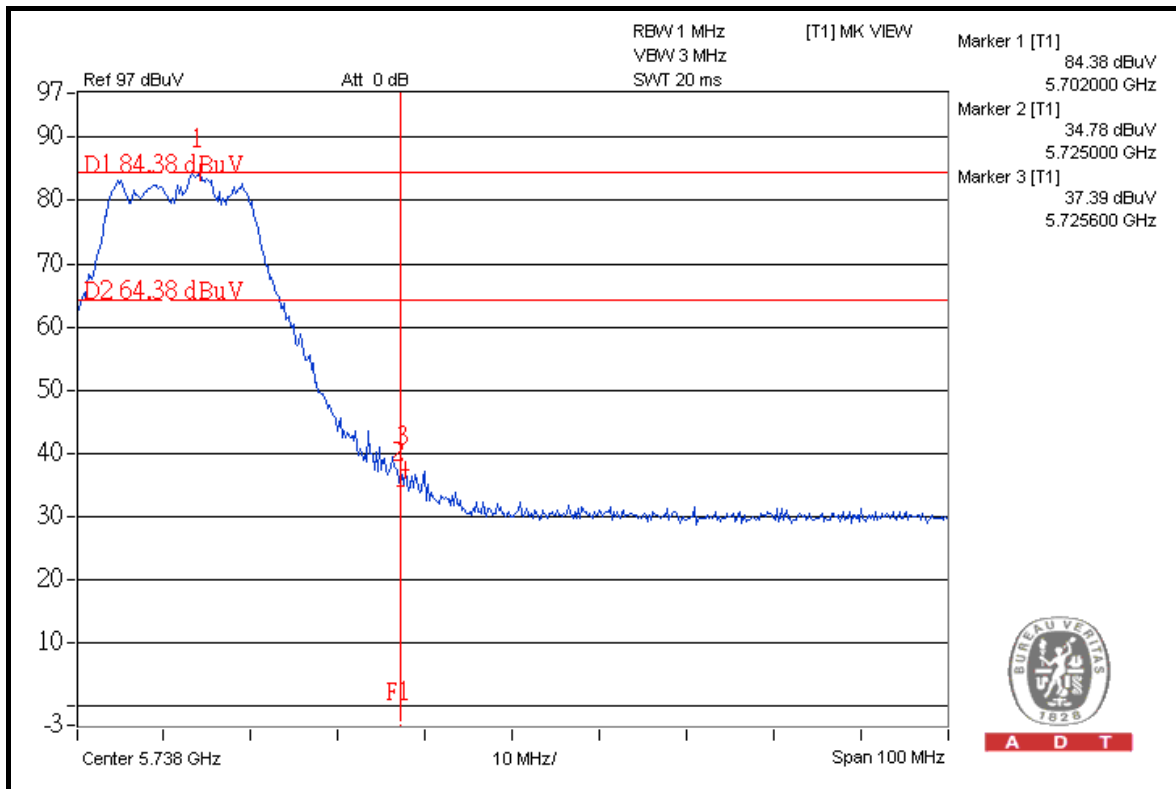
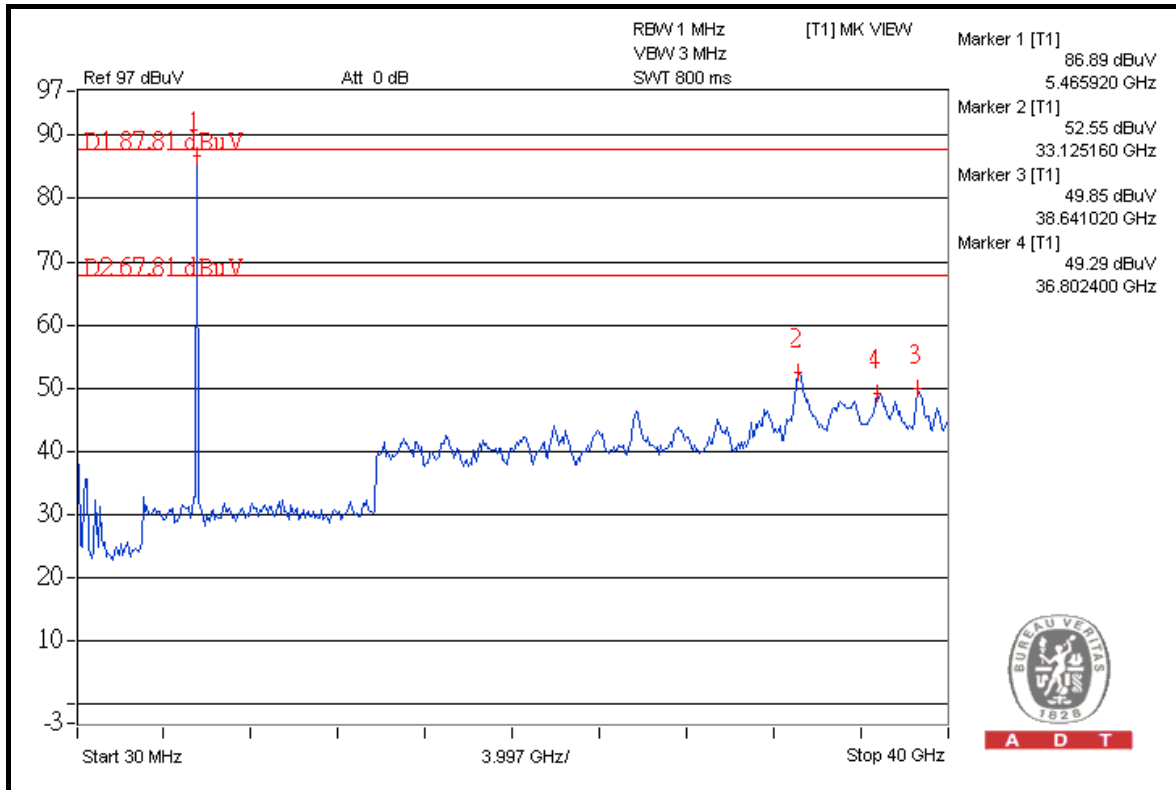
A D T



A D T

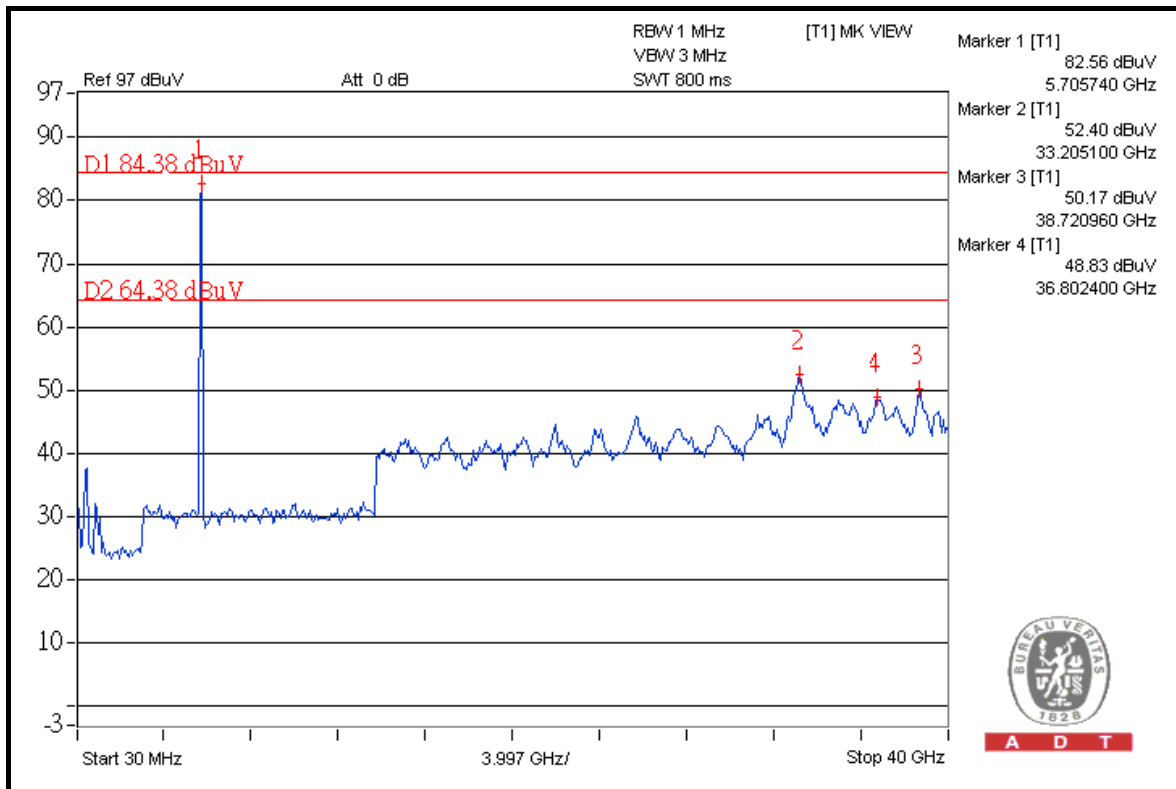
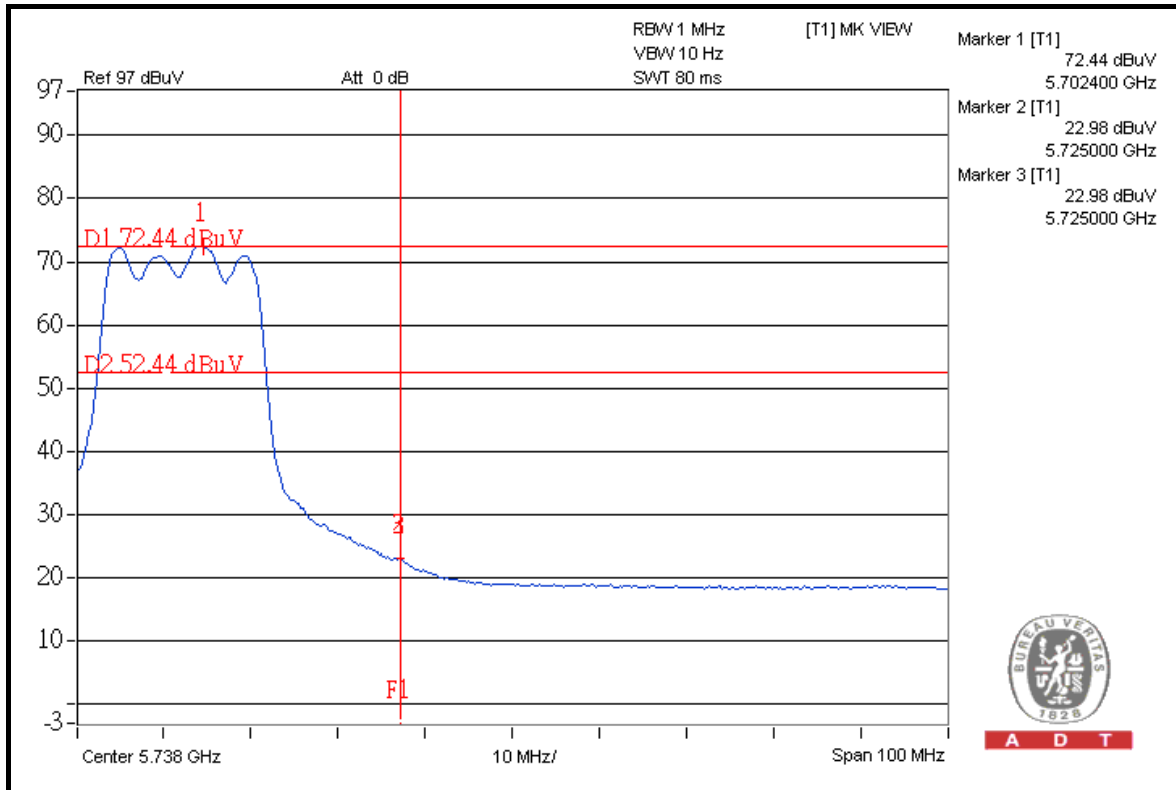


A D T





A D T





**FOR 5260-5320MHz BAND:**

**802.11n (20MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	116.2	54.95	61.25	74.00
5260.00 (AV)	104.0	54.47	49.53	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

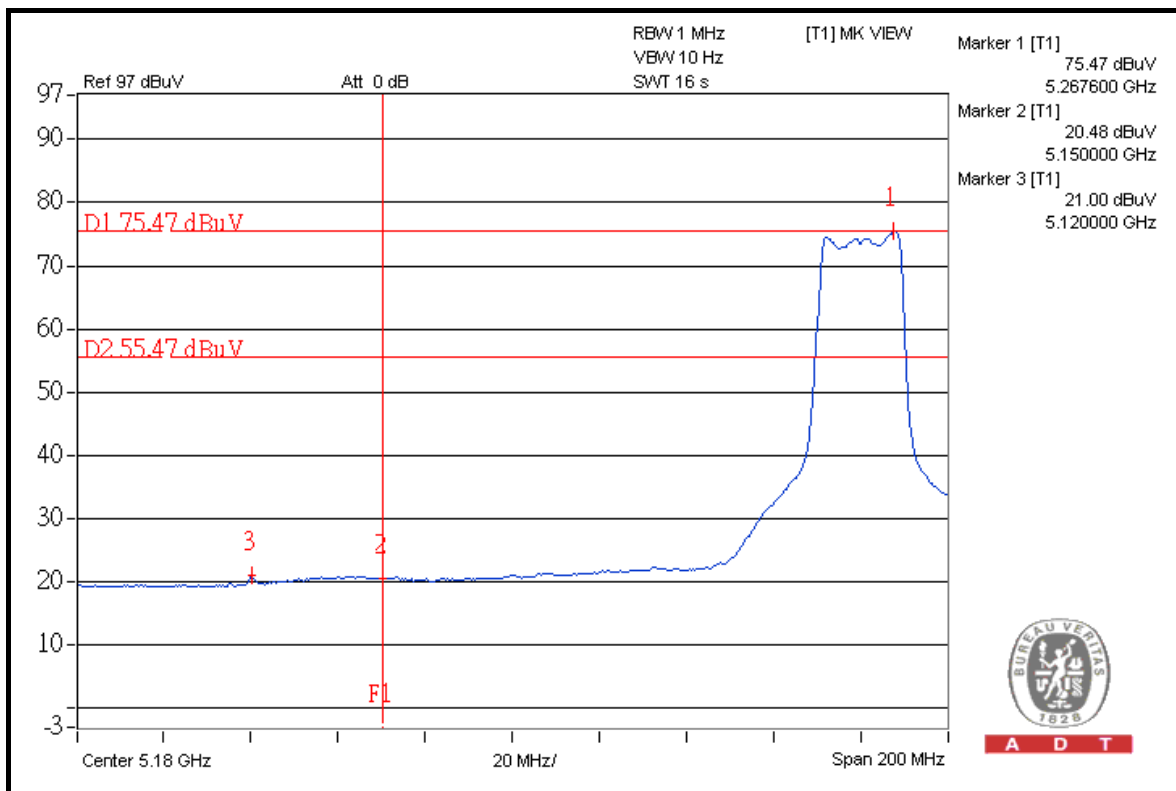
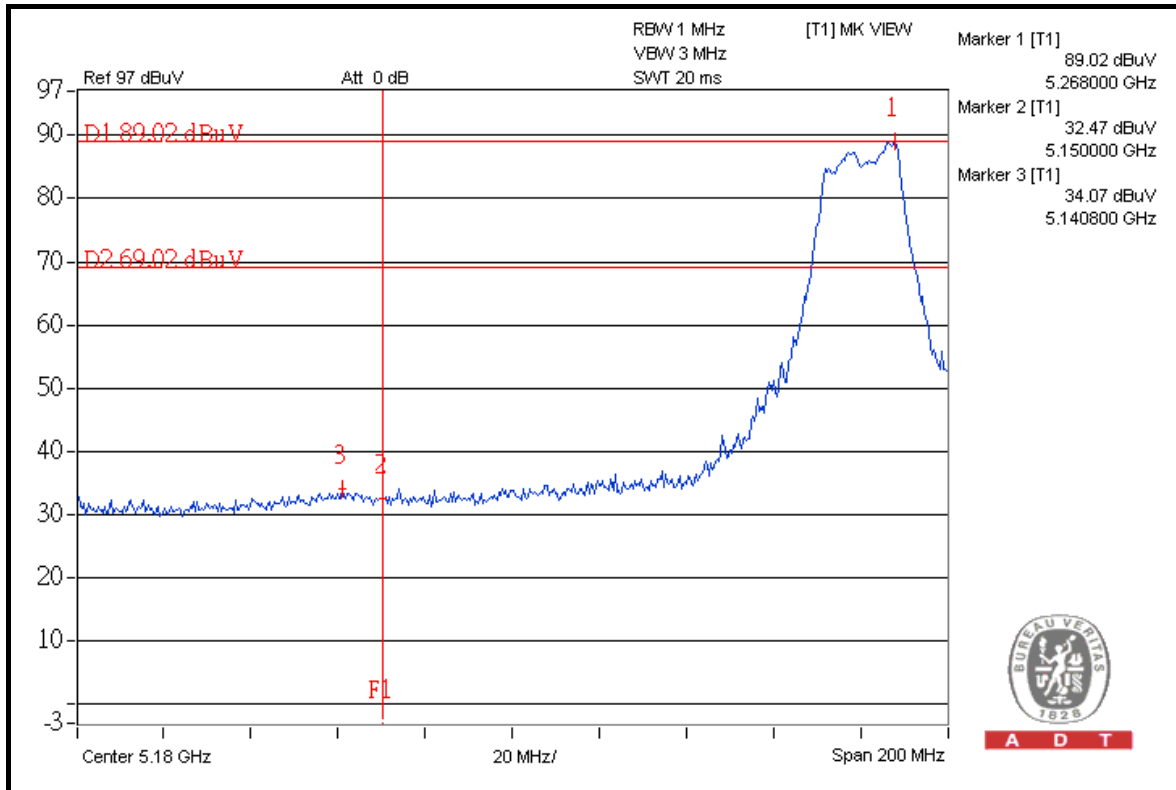
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	115.5	50.42	65.08	74.00
5320.00 (AV)	103.4	52.75	50.65	54.00

**NOTE:**

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

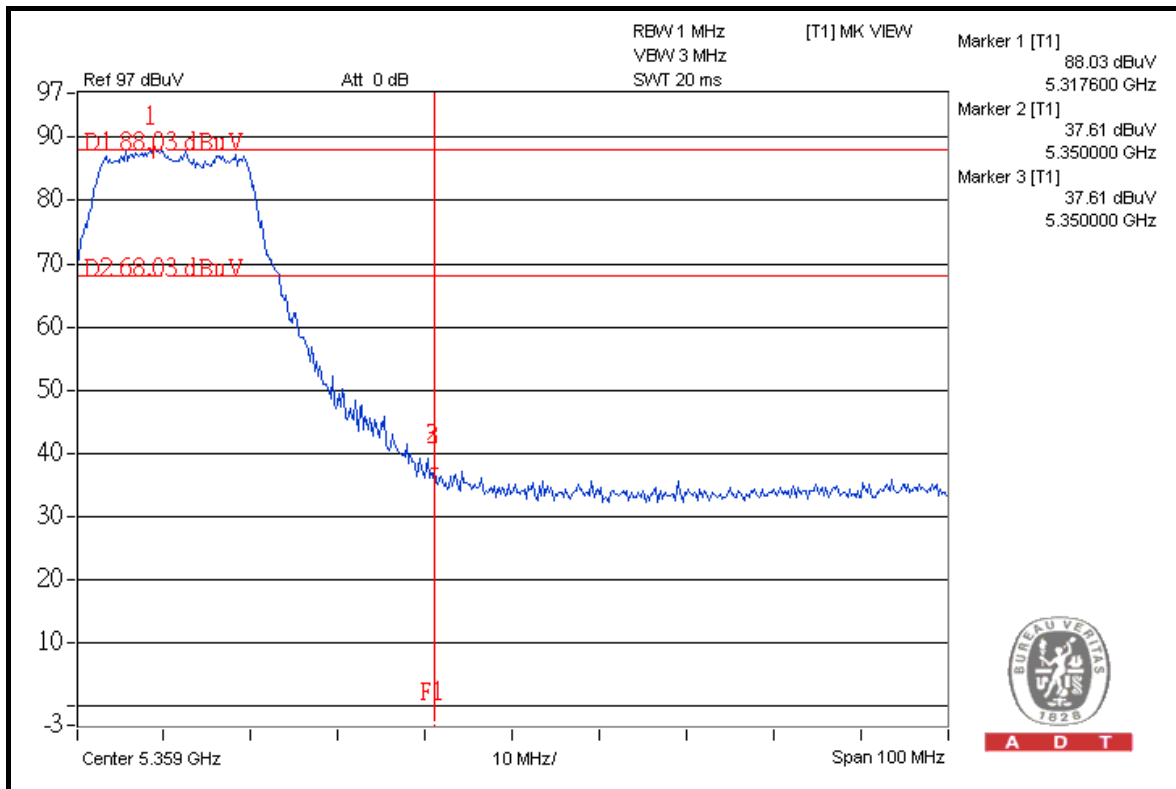
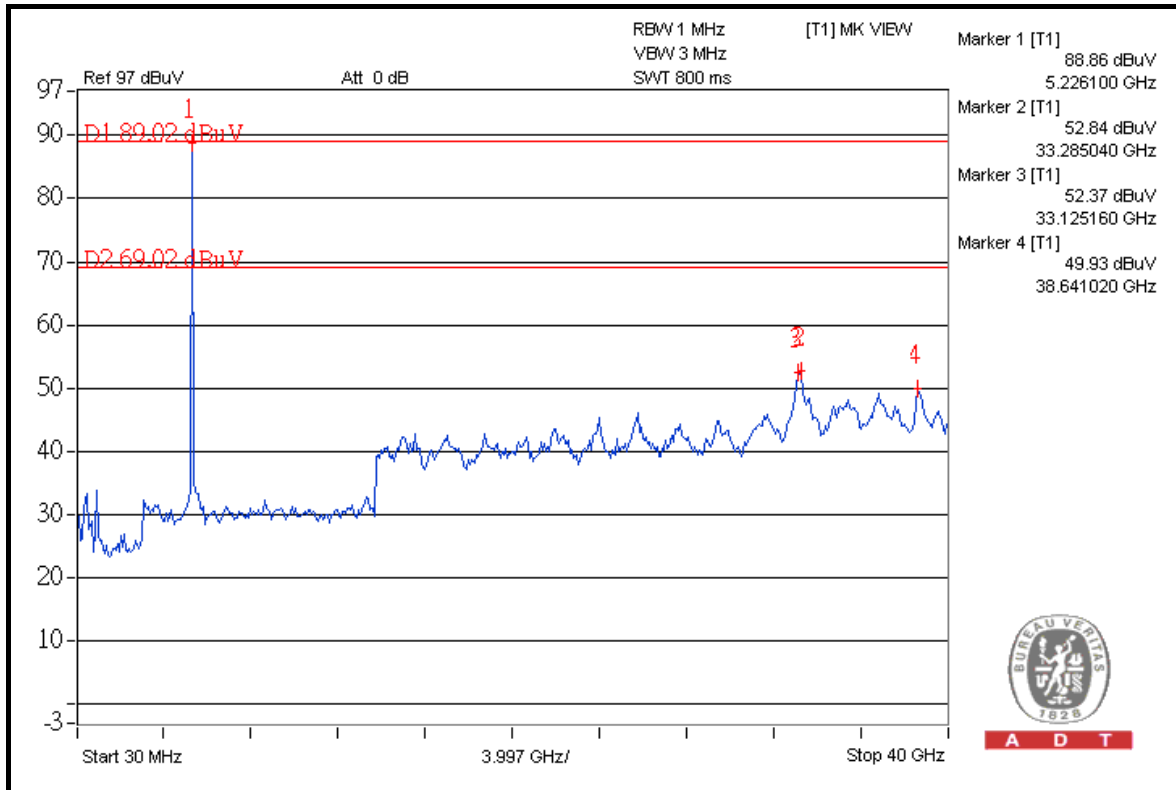


A D T



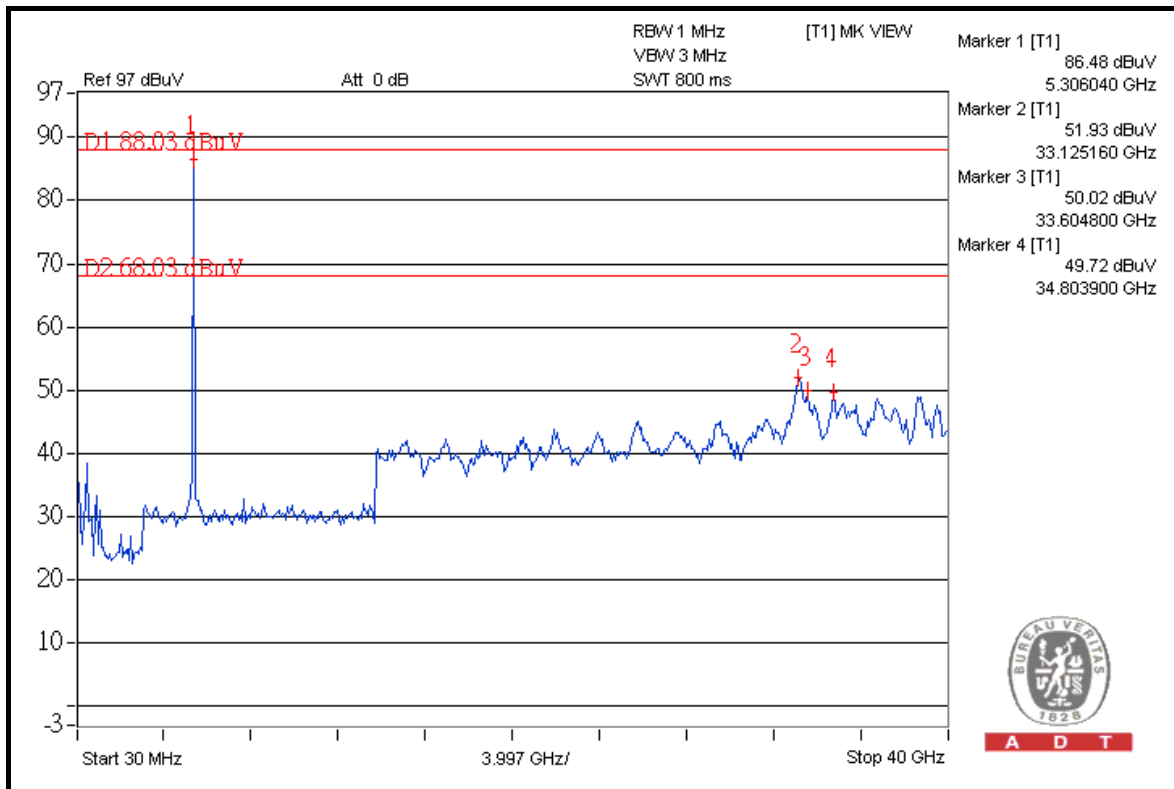
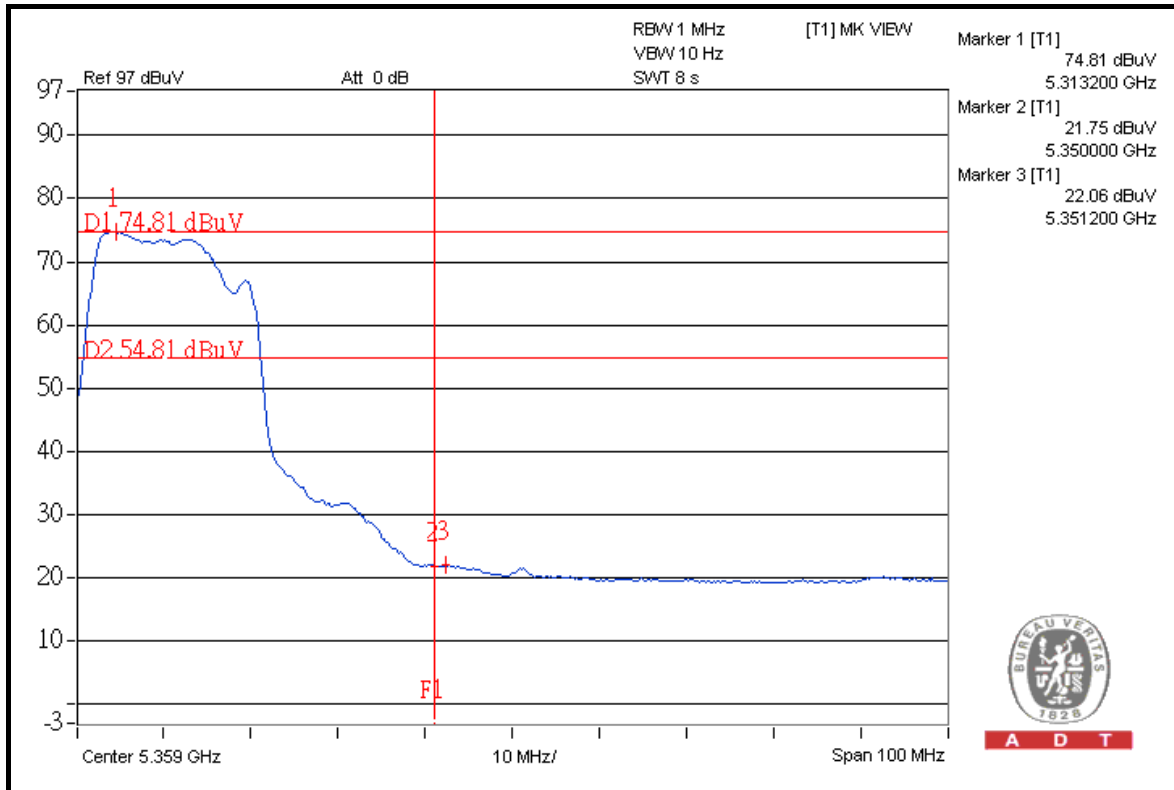


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (20MHz)**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.2	52.26	62.94	74.00
5500.00 (AV)	102.8	53.05	49.75	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.2	53.30	61.90	68.30

**5700MHz**

**ABOVE 5725 MHz**

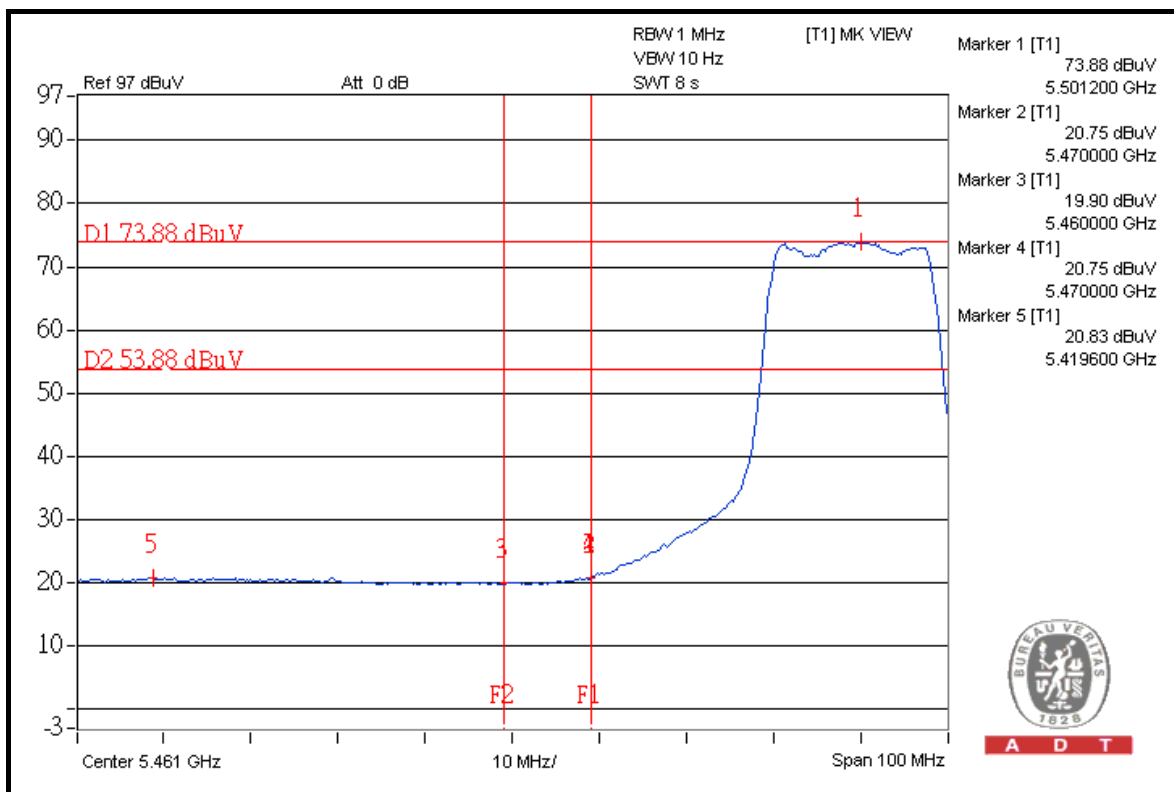
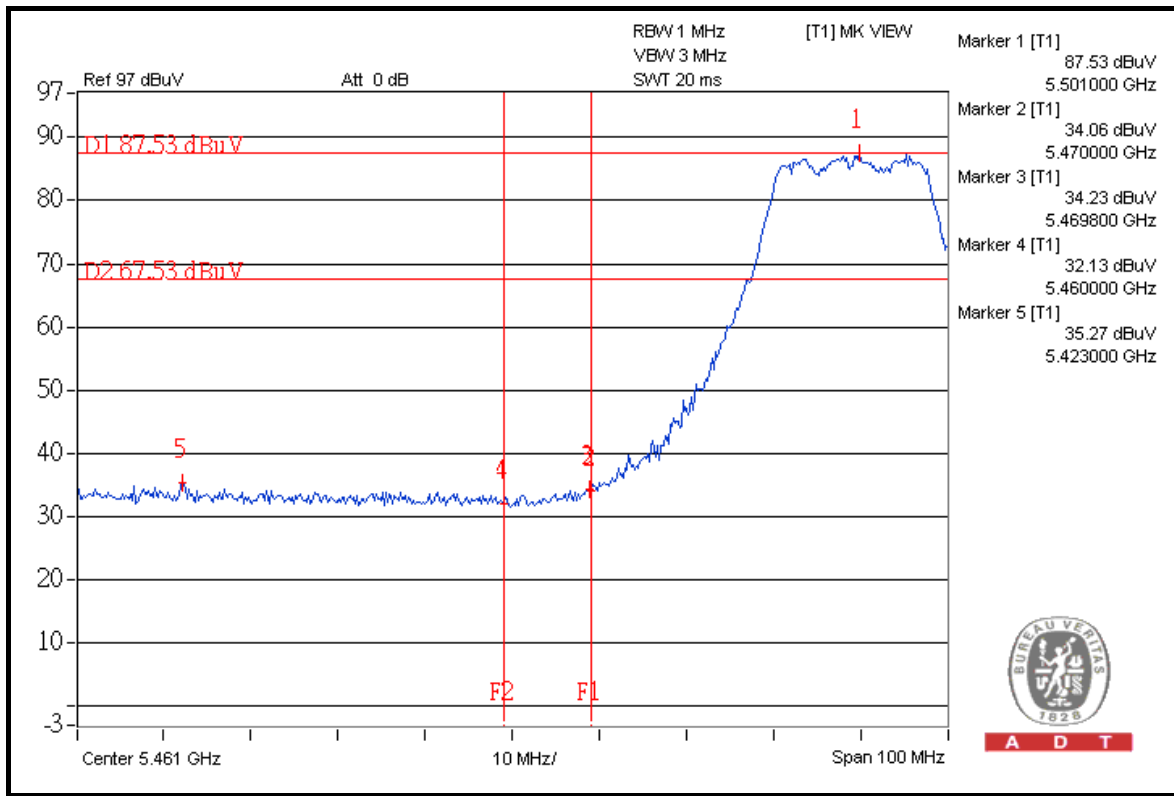
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	112.3	47.30	65.00	68.30

**NOTE:**

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

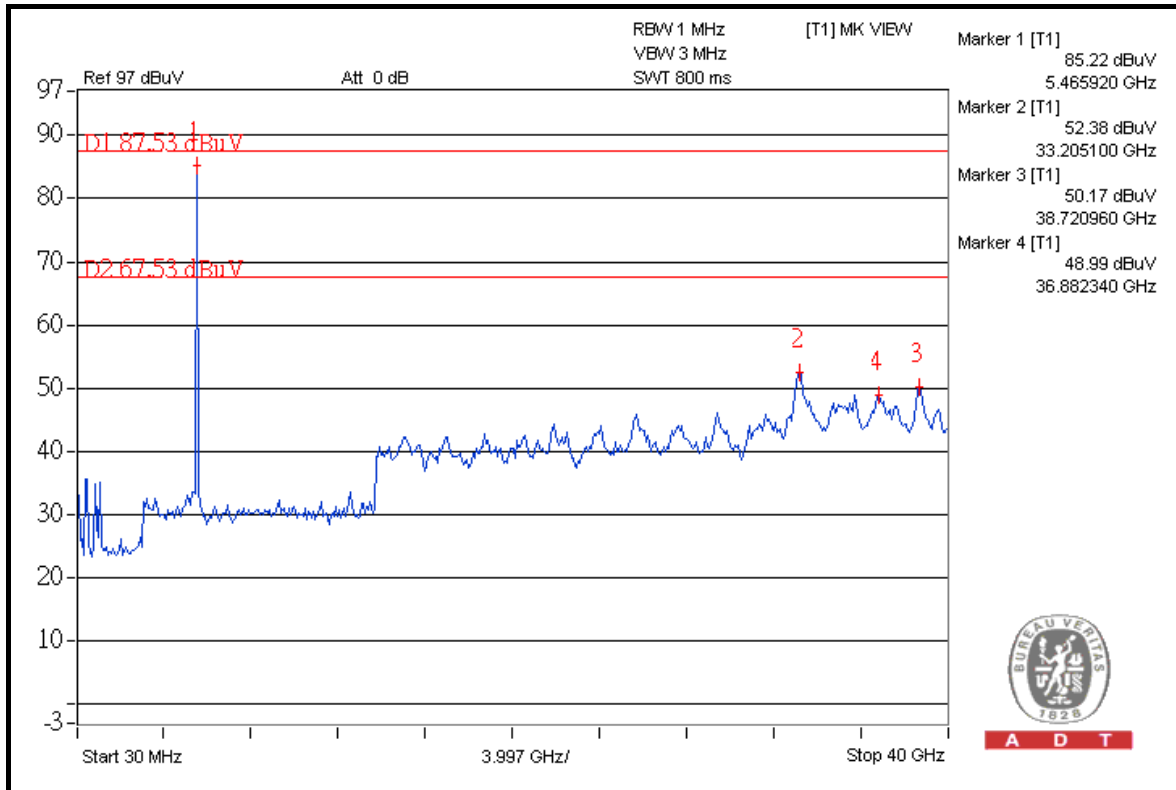


A D T

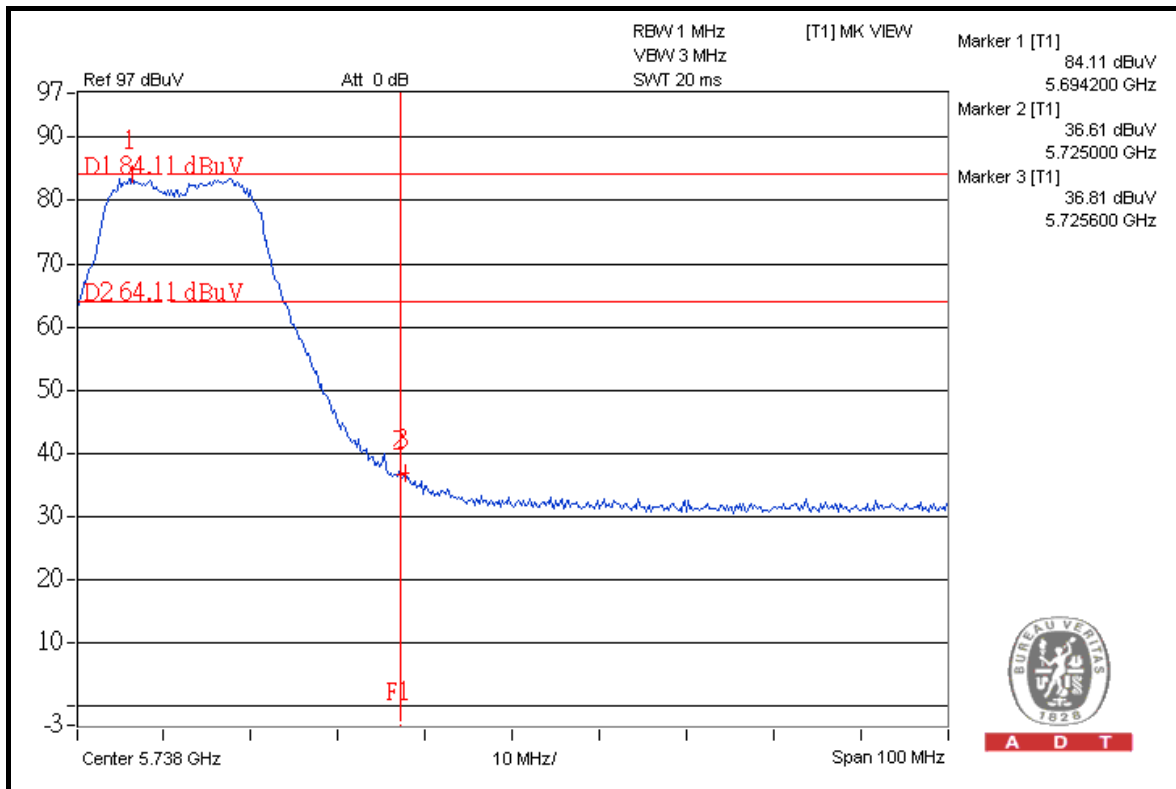




A D T



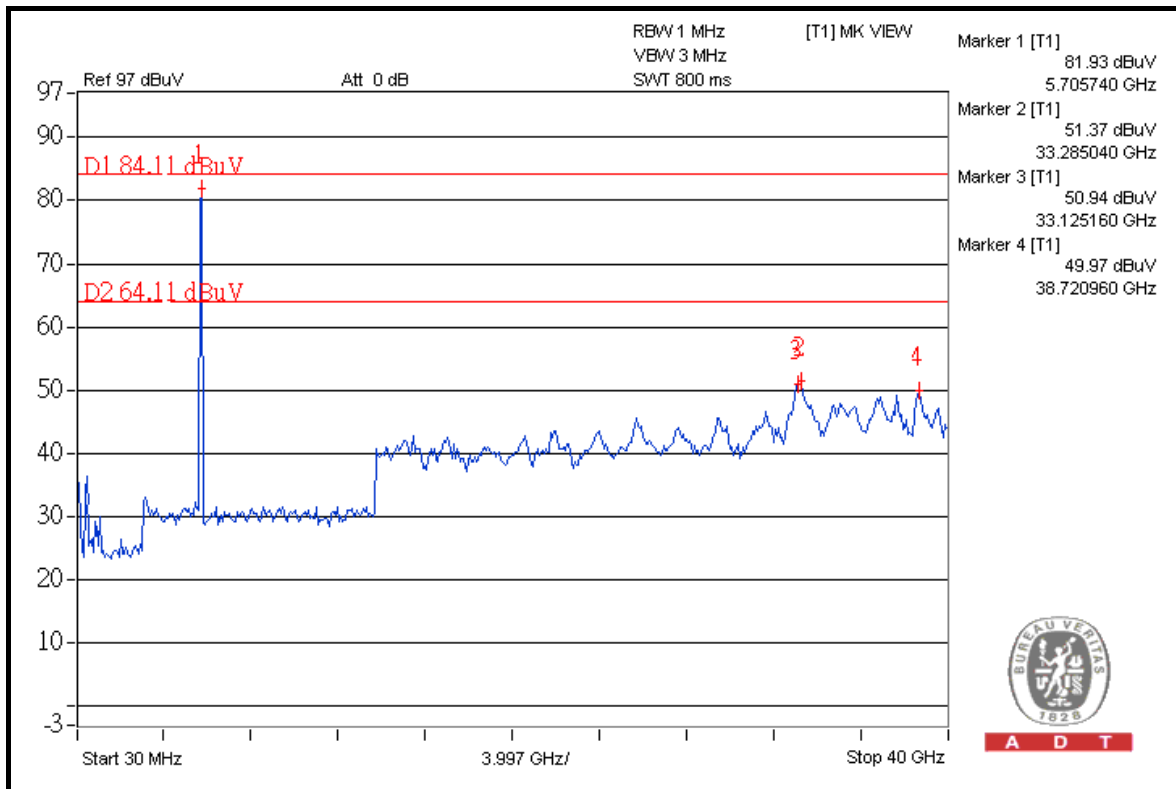
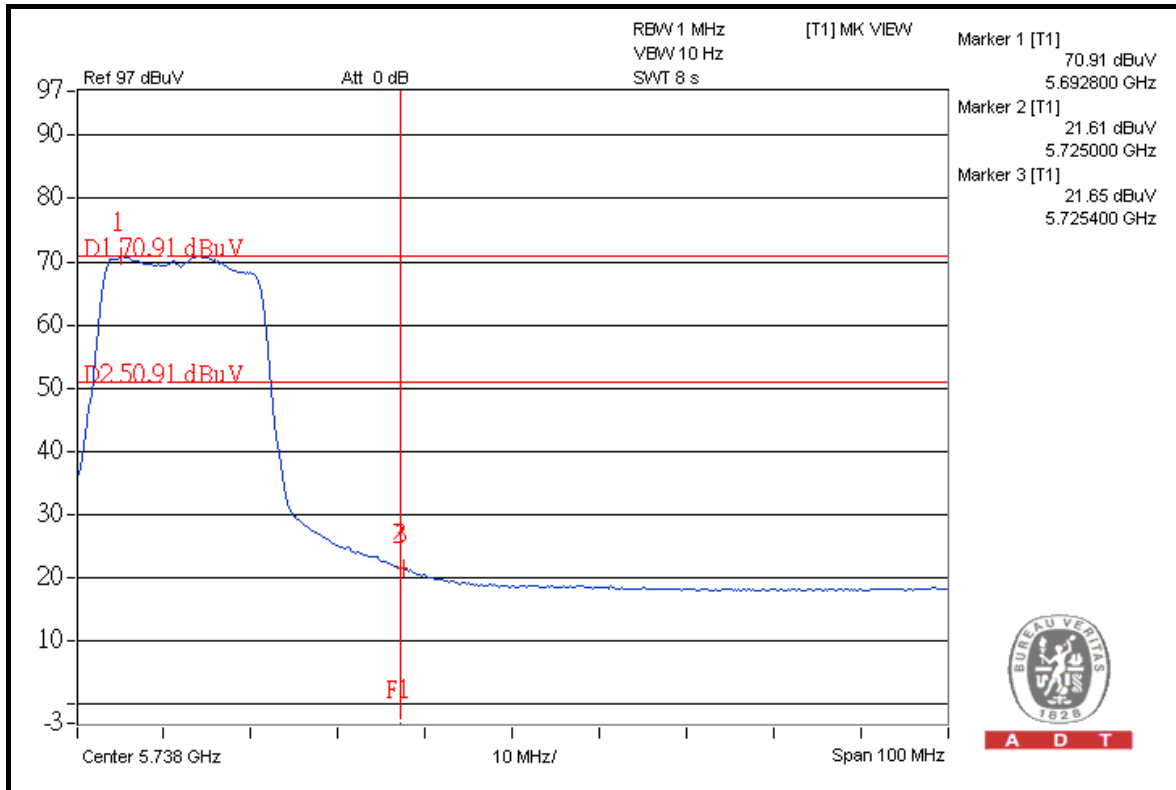
A D T



A D T



A D T





**FOR 5260-5320MHz BAND:**

**802.11n (40MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5270.00 (PK)	114.7	56.43	58.27	74.00
5270.00 (AV)	102.8	56.06	46.74	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

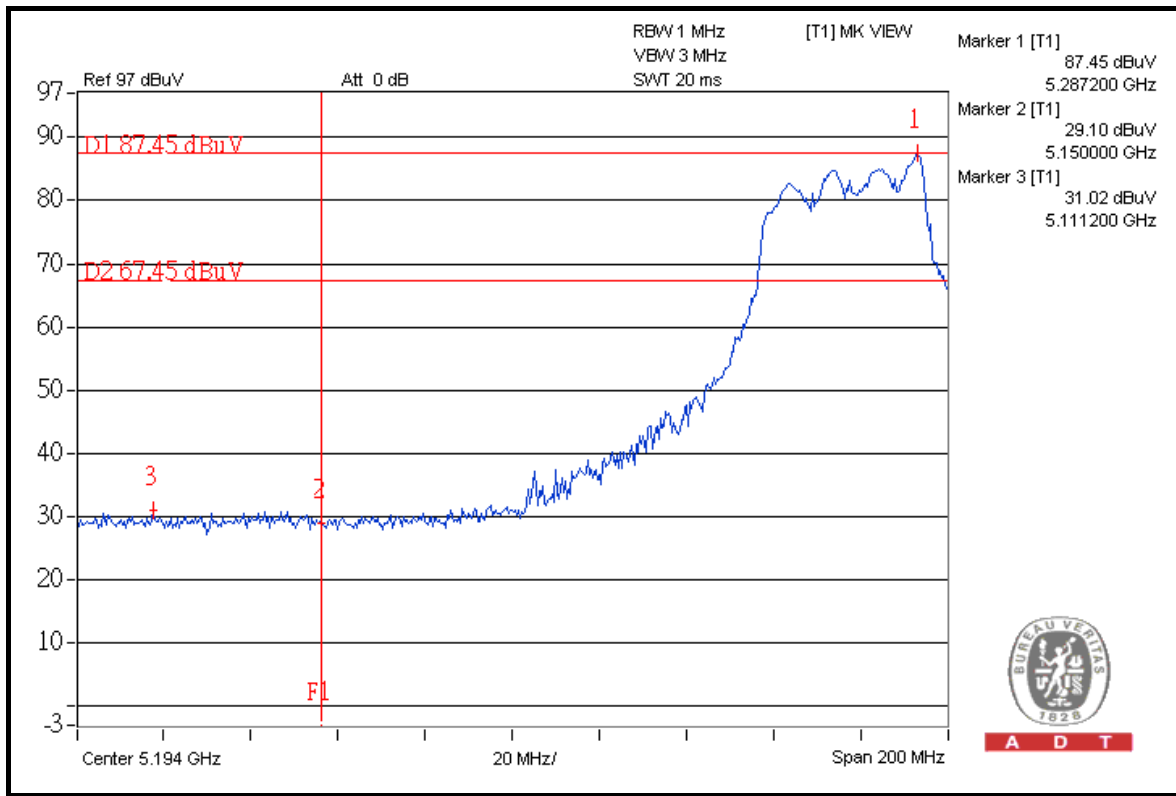
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5310.00 (PK)	114.5	43.50	71.00	74.00
5310.00 (AV)	102.3	50.16	52.14	54.00

**NOTE:**

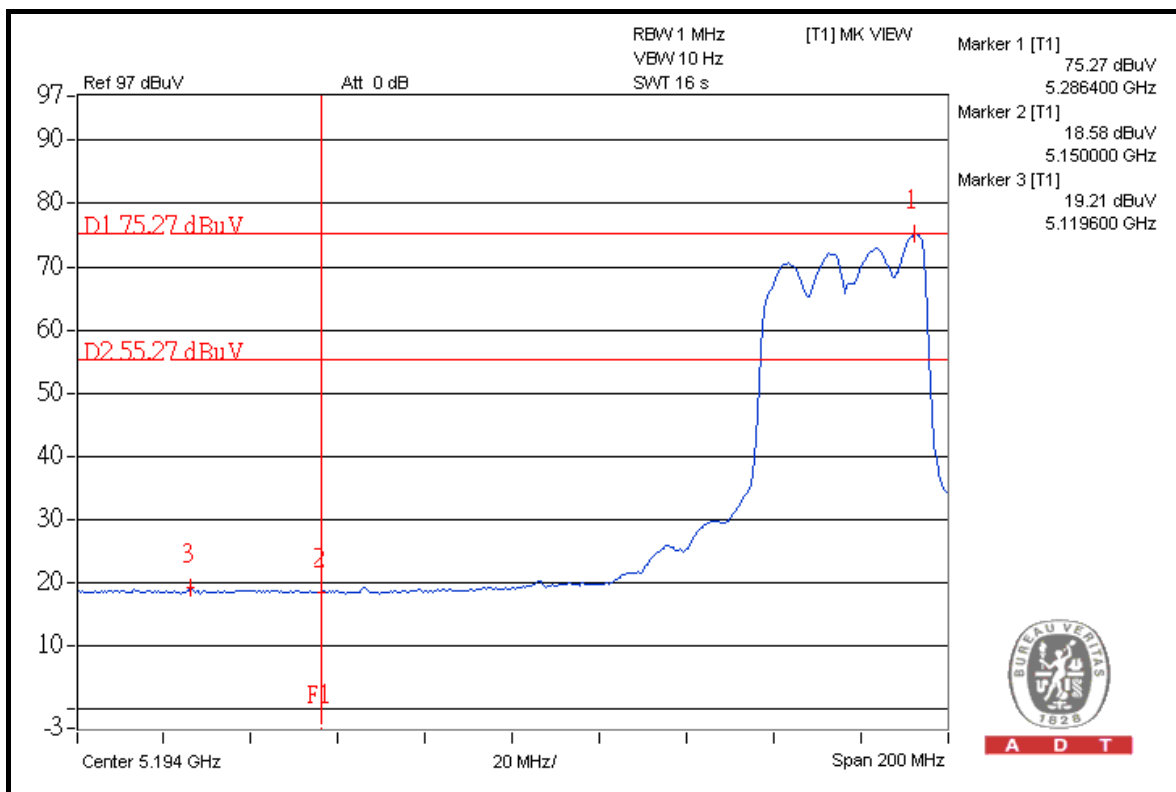
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



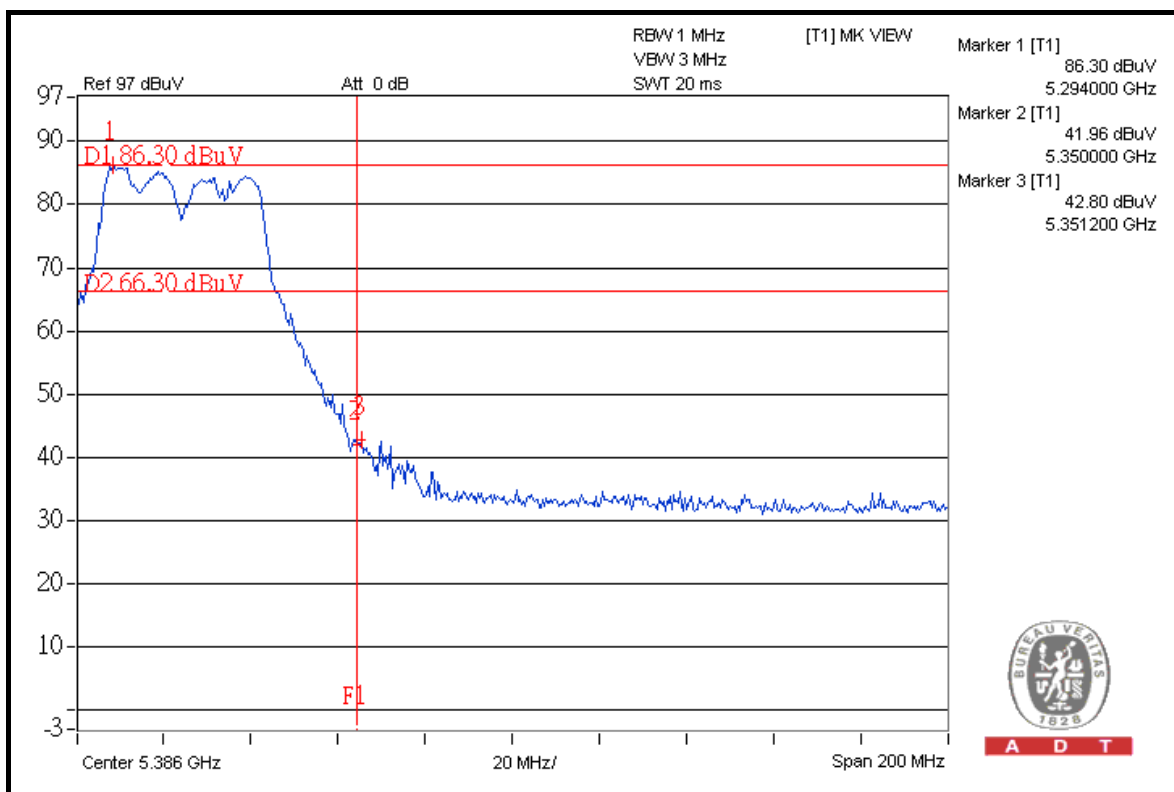
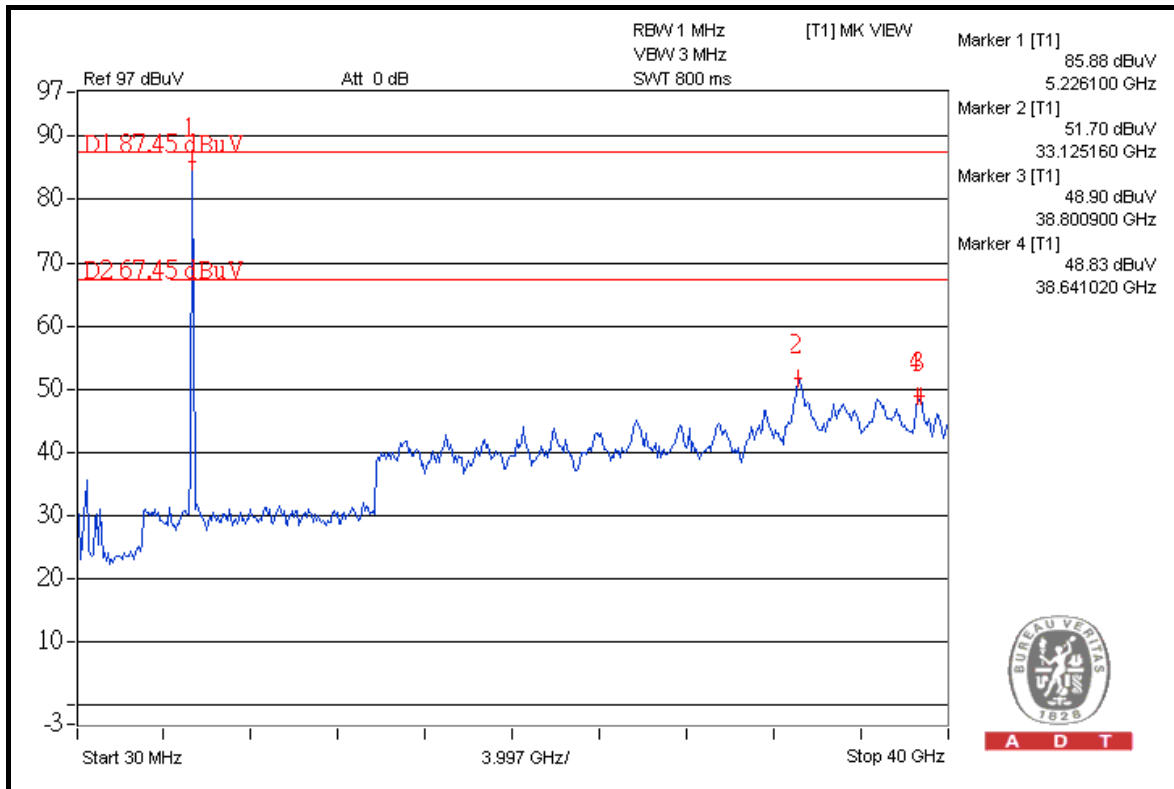
A D T



A D T

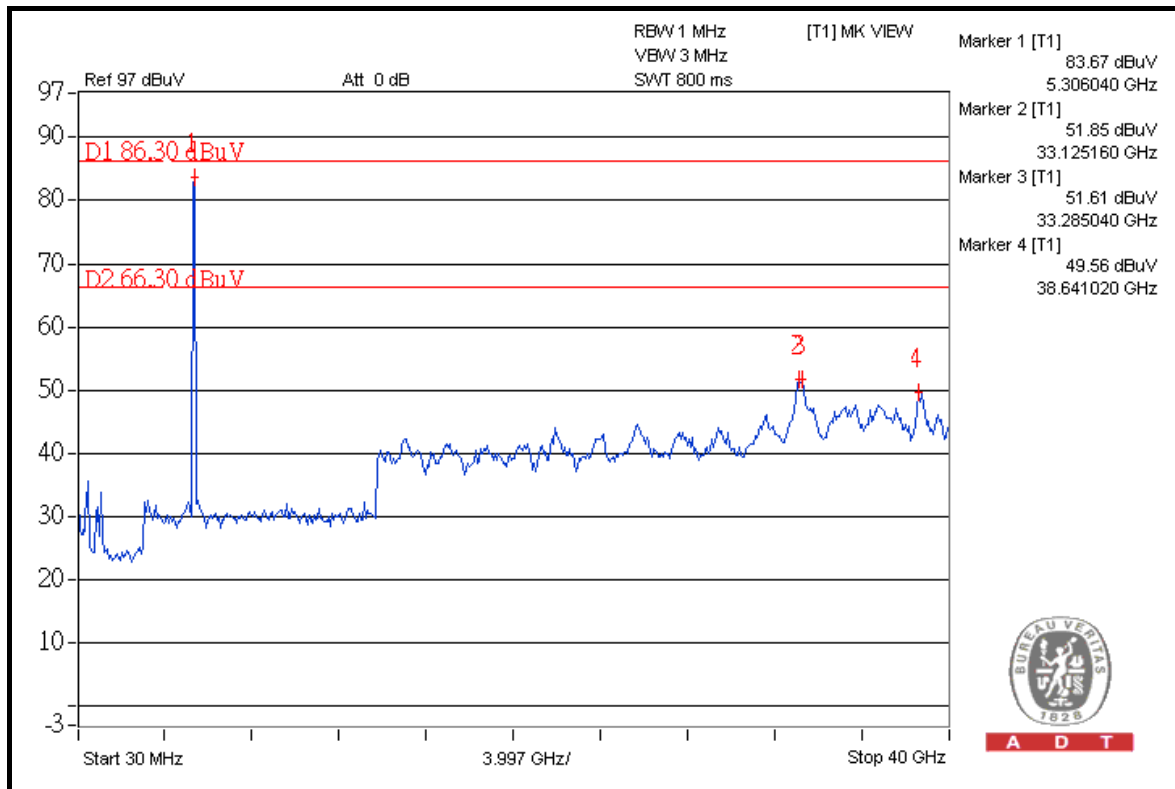
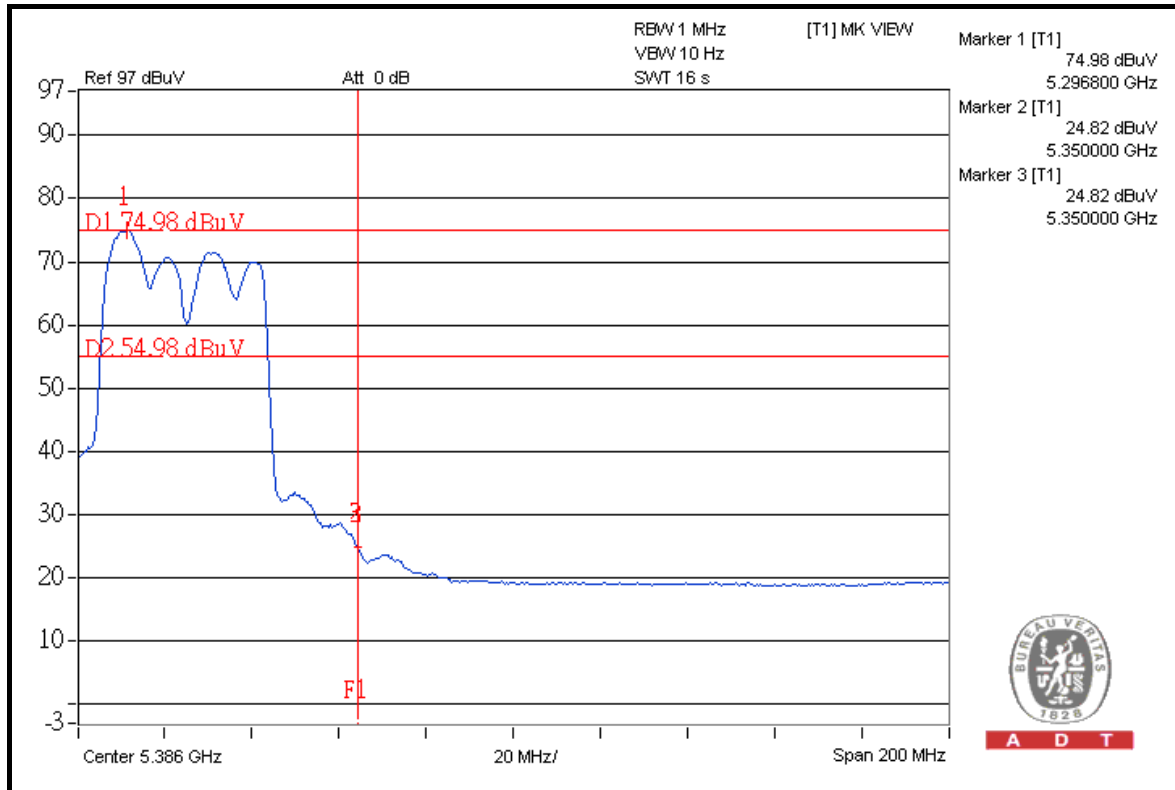


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (40MHz)**

**5510MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	110.2	49.95	60.25	74.00
5510.00 (AV)	98.0	49.27	48.73	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

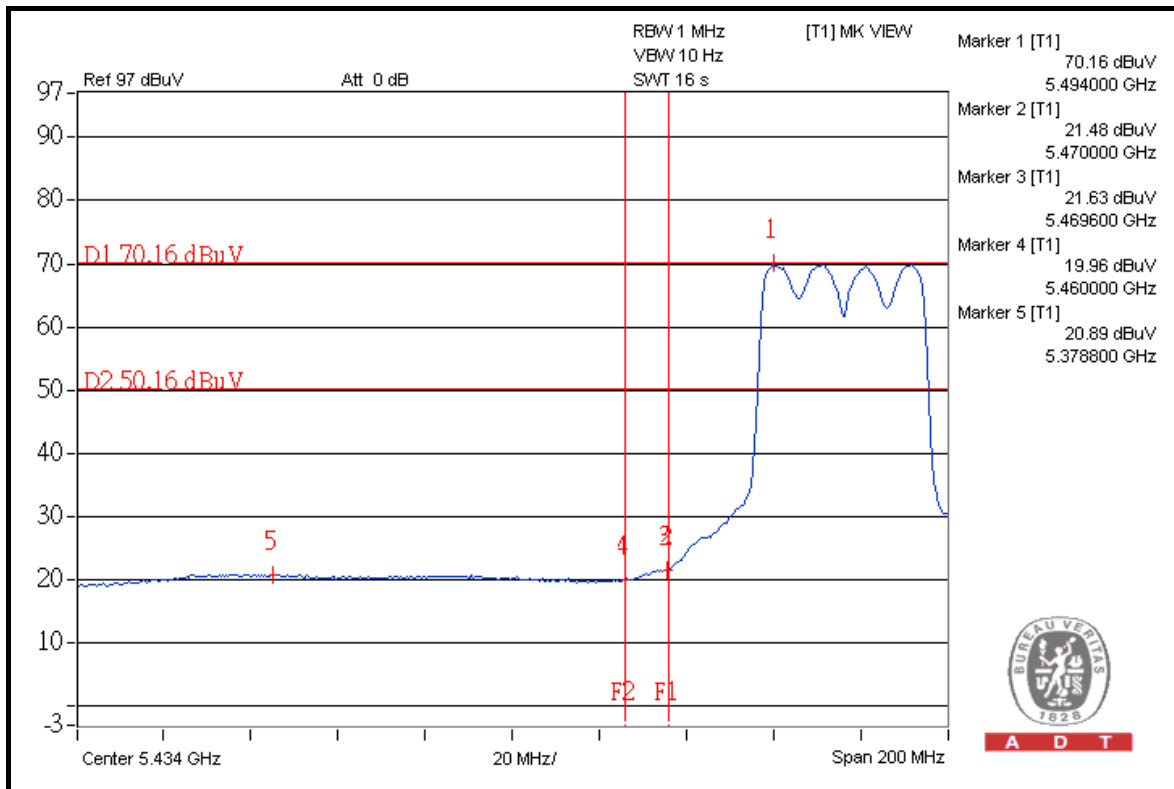
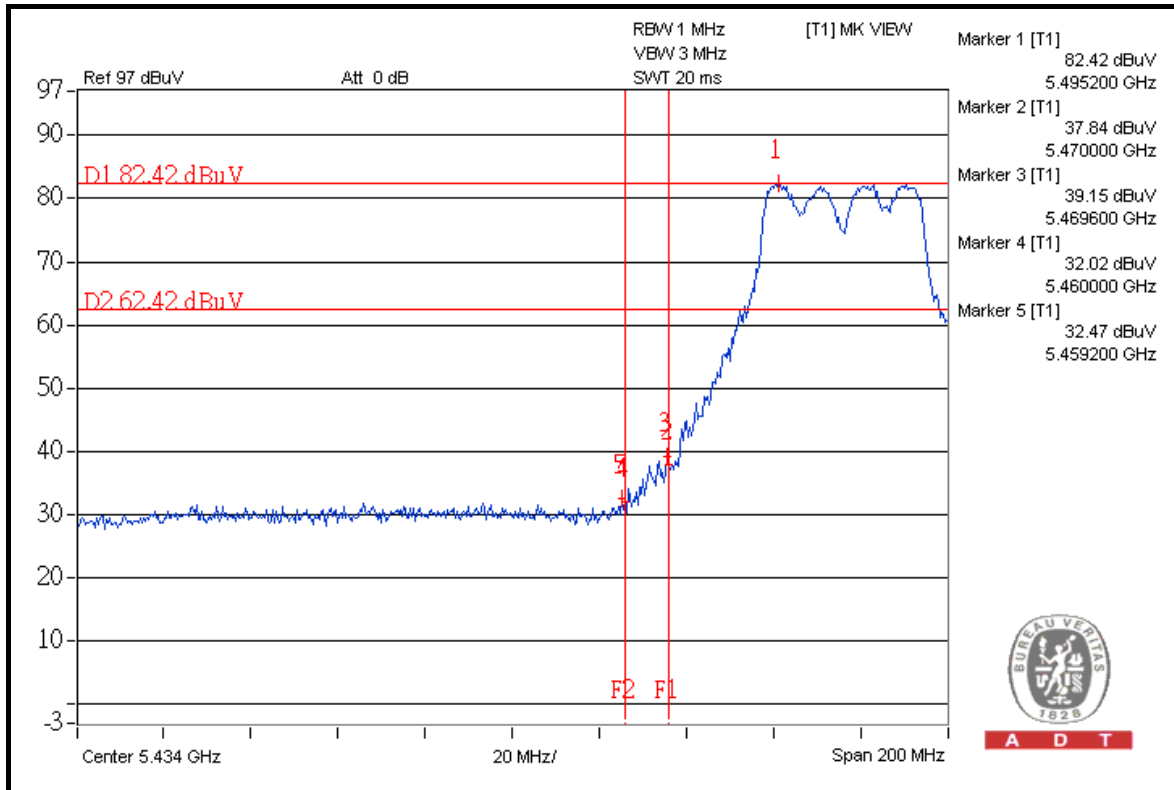
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	110.2	43.27	66.93	68.30

**NOTE:**

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

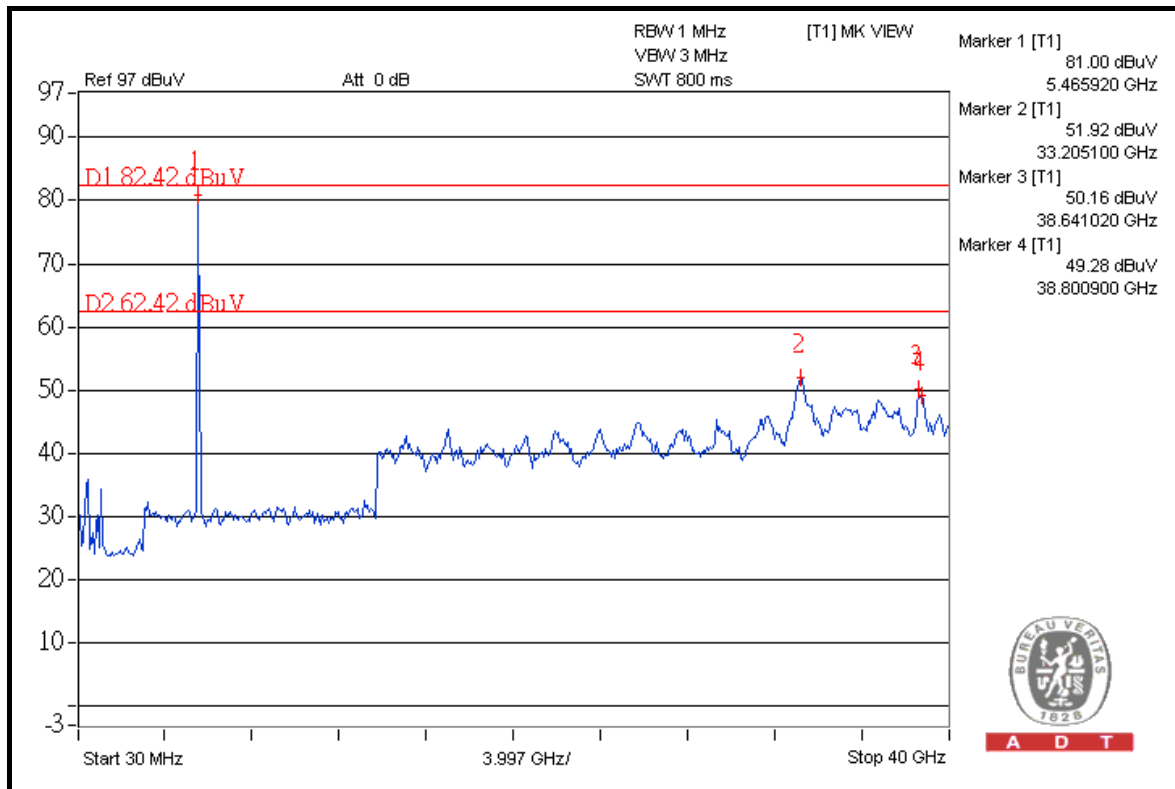


A D T





A D T



A D T

#### 4.7.7 TEST RESULTS (B2)

For signals in the restricted bands above and below the 5.26 to 5.32GHz, 5.50 to 5.70GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

#### FOR 5260-5320MHz BAND: 802.11a

##### RESTRICT BAND (4500 ~ 5150 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	116.7	55.91	60.79	74.00
5260.00 (AV)	104.8	56.36	48.44	54.00

##### RESTRICT BAND (5350 ~ 5460 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	116.0	51.01	64.99	74.00
5320.00 (AV)	104.0	55.76	48.24	54.00

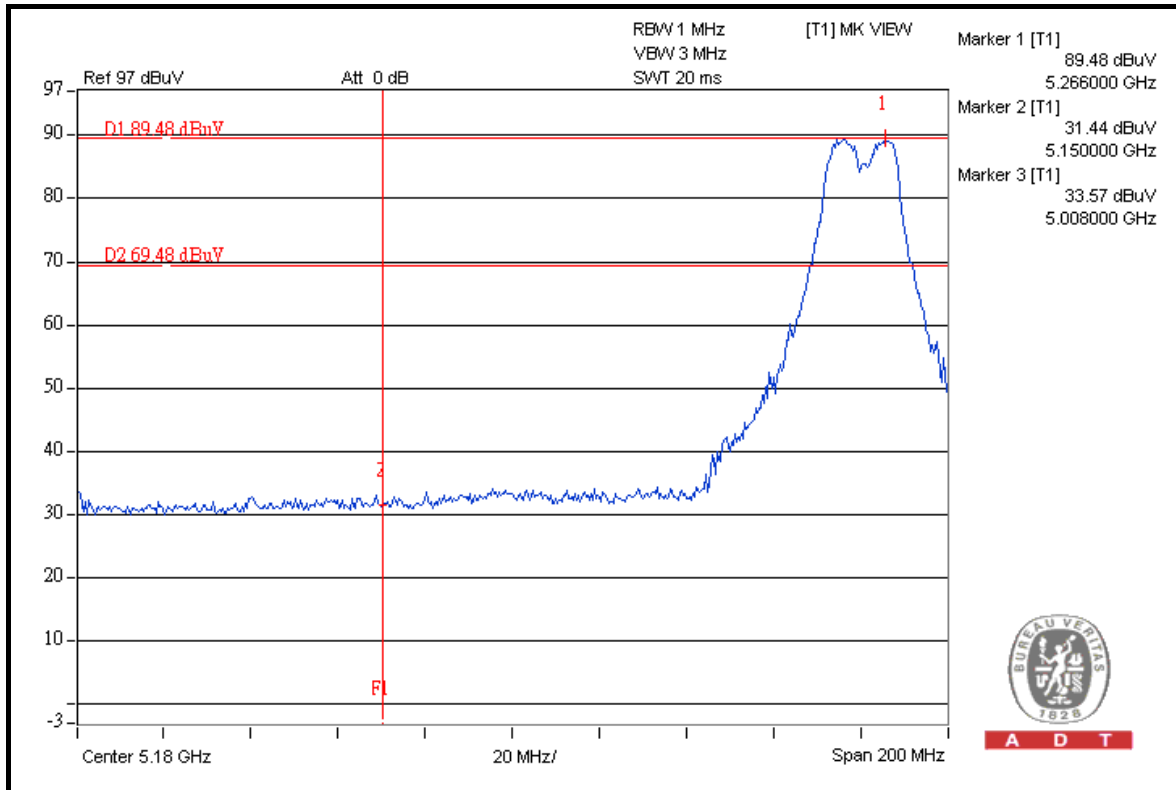
#### NOTE:

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

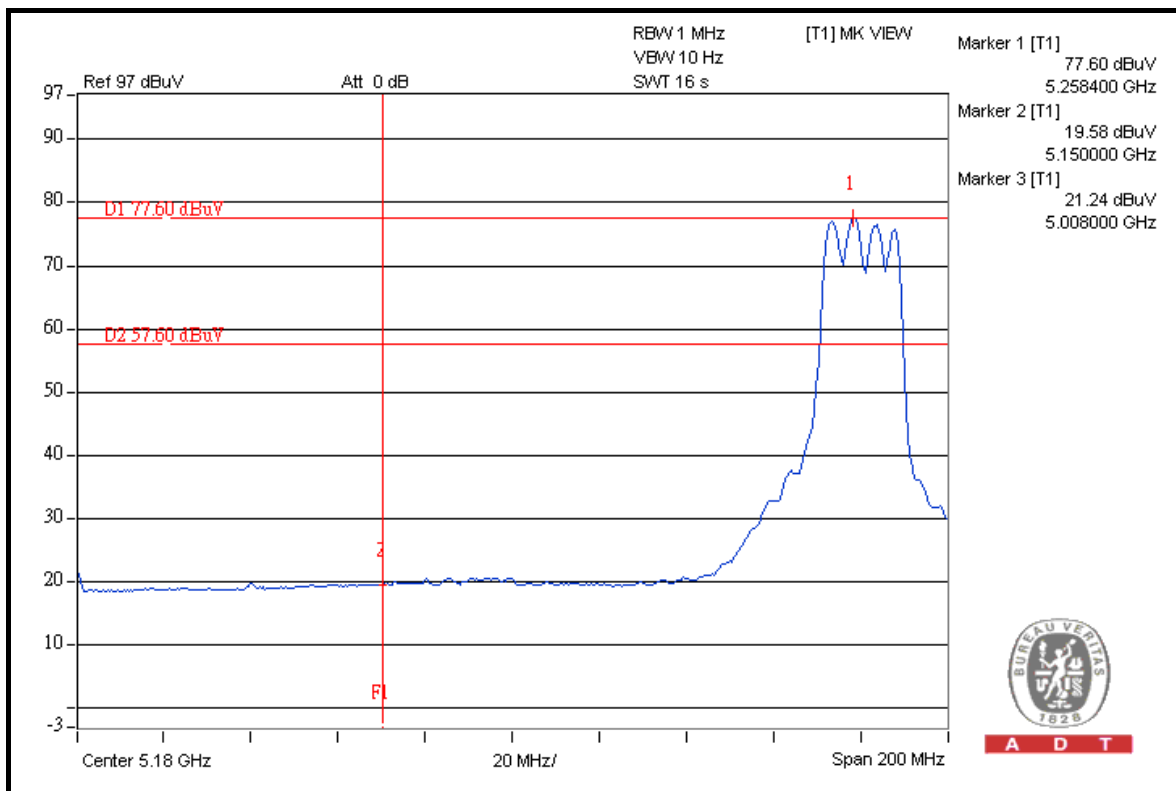




A D T



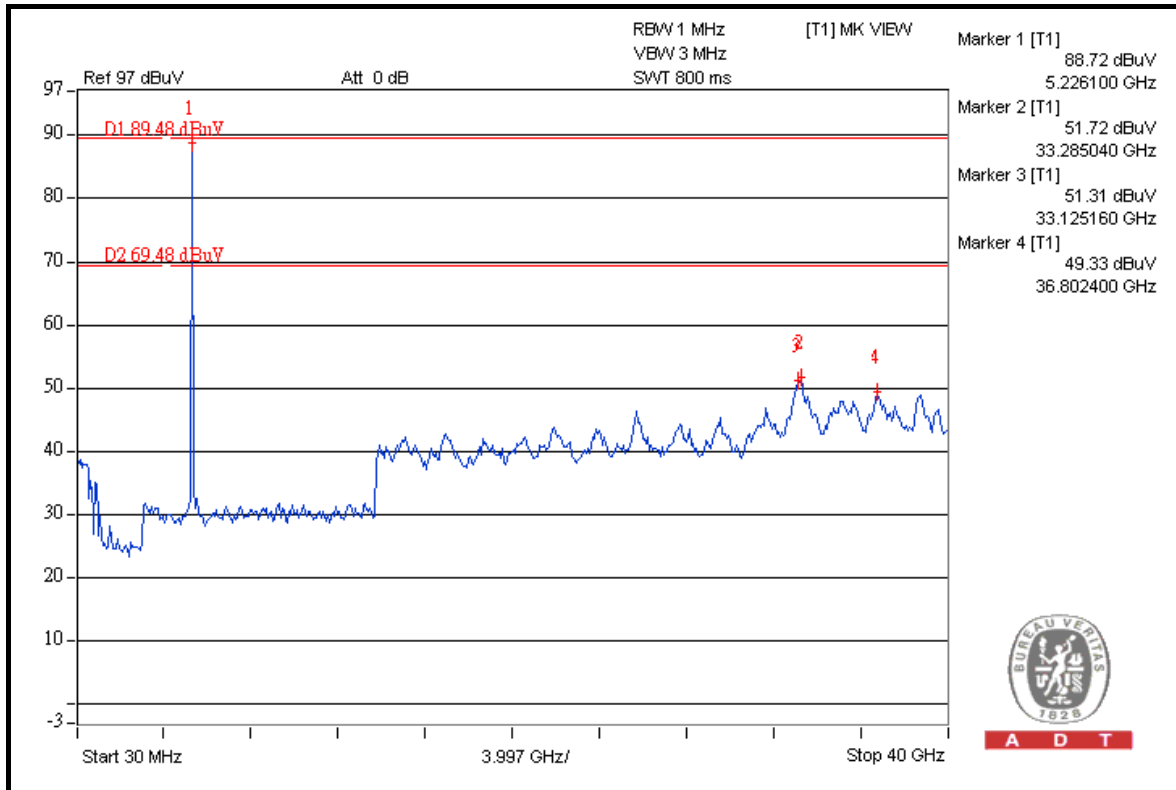
A D T



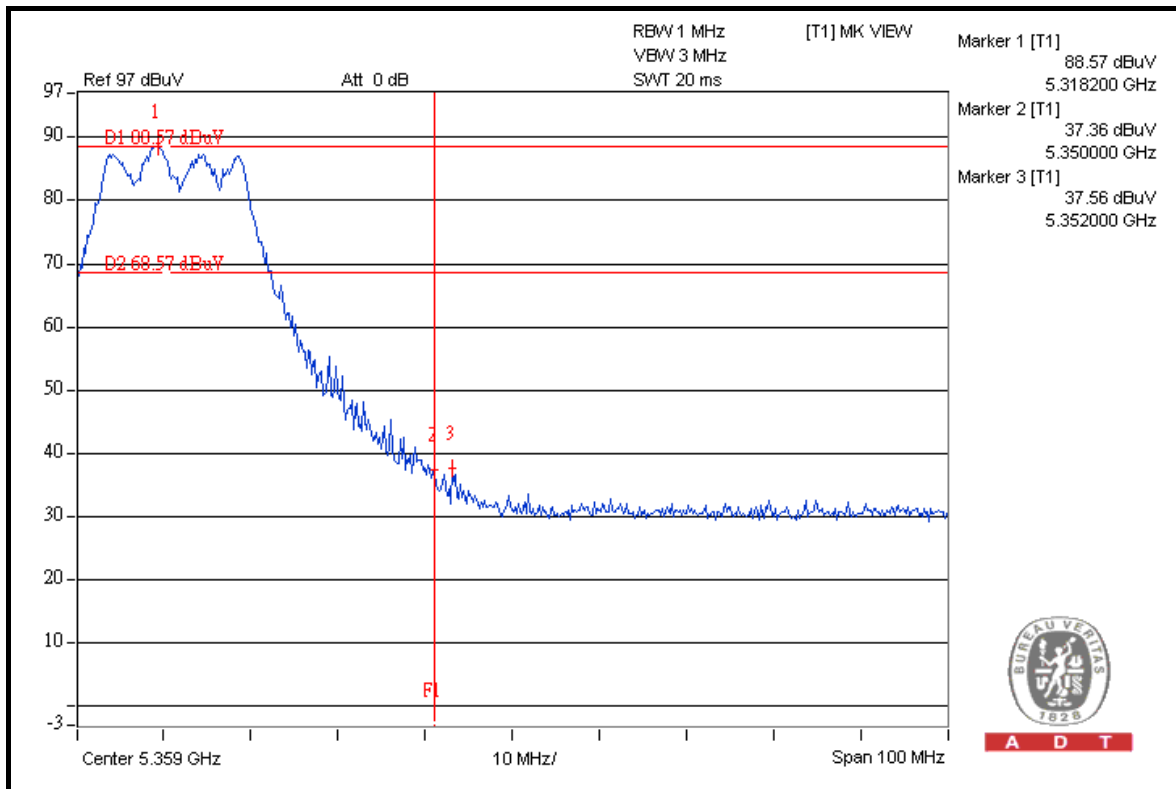
A D T



A D T



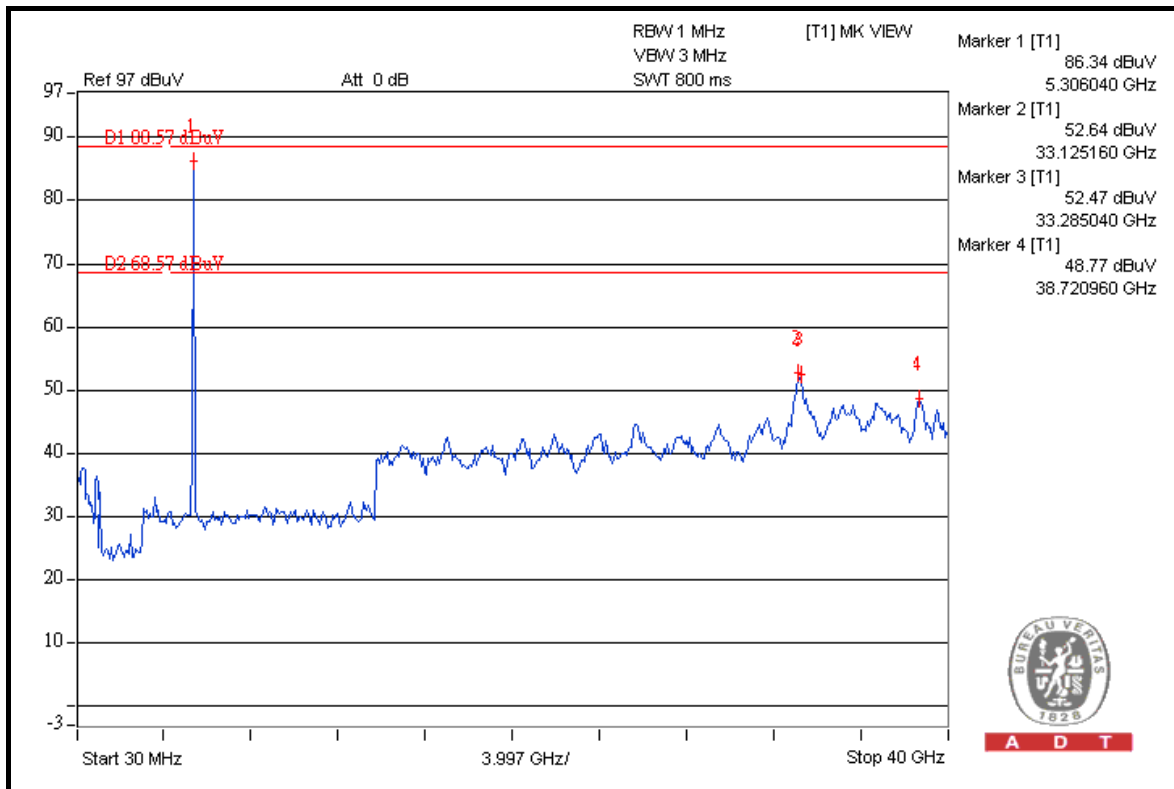
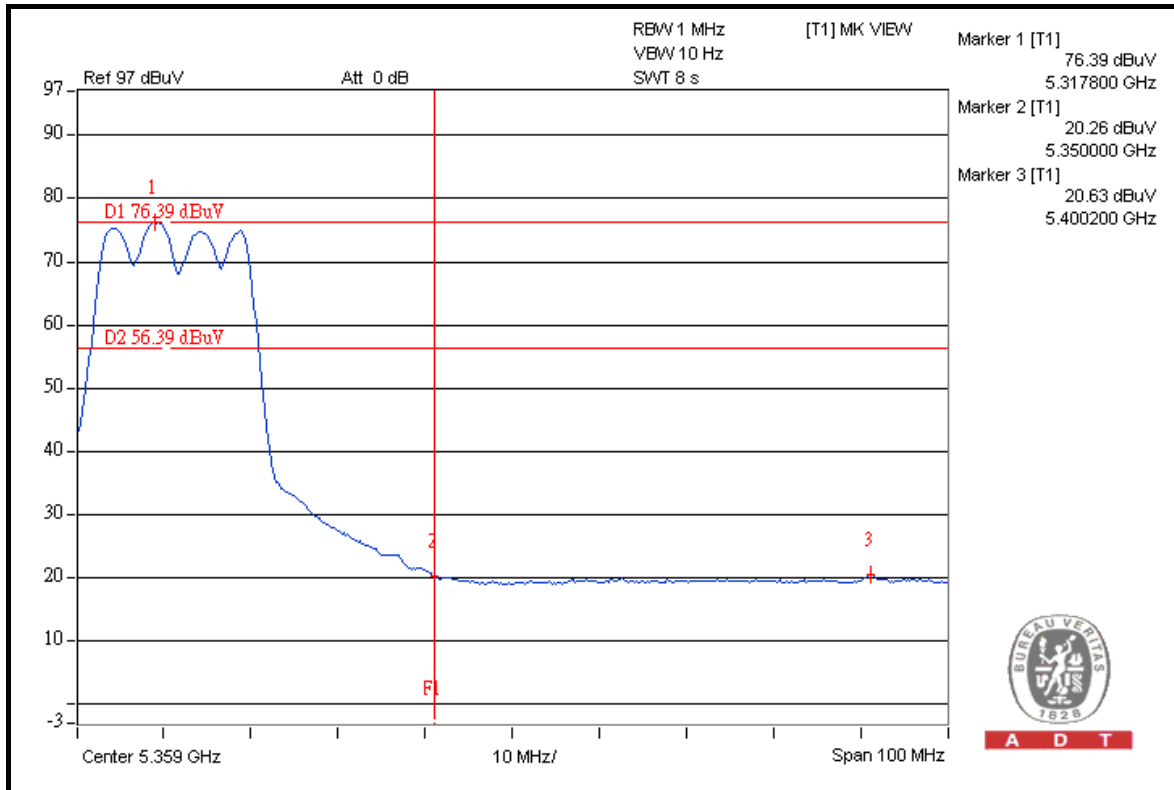
A D T



A D T



A D T



**FOR 5500-5700MHz BAND:**

**802.11a**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.7	54.07	61.63	74.00
5500.00 (AV)	103.5	55.48	48.02	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.7	53.83	61.87	68.30

**5700MHz**

**ABOVE 5725 MHz**

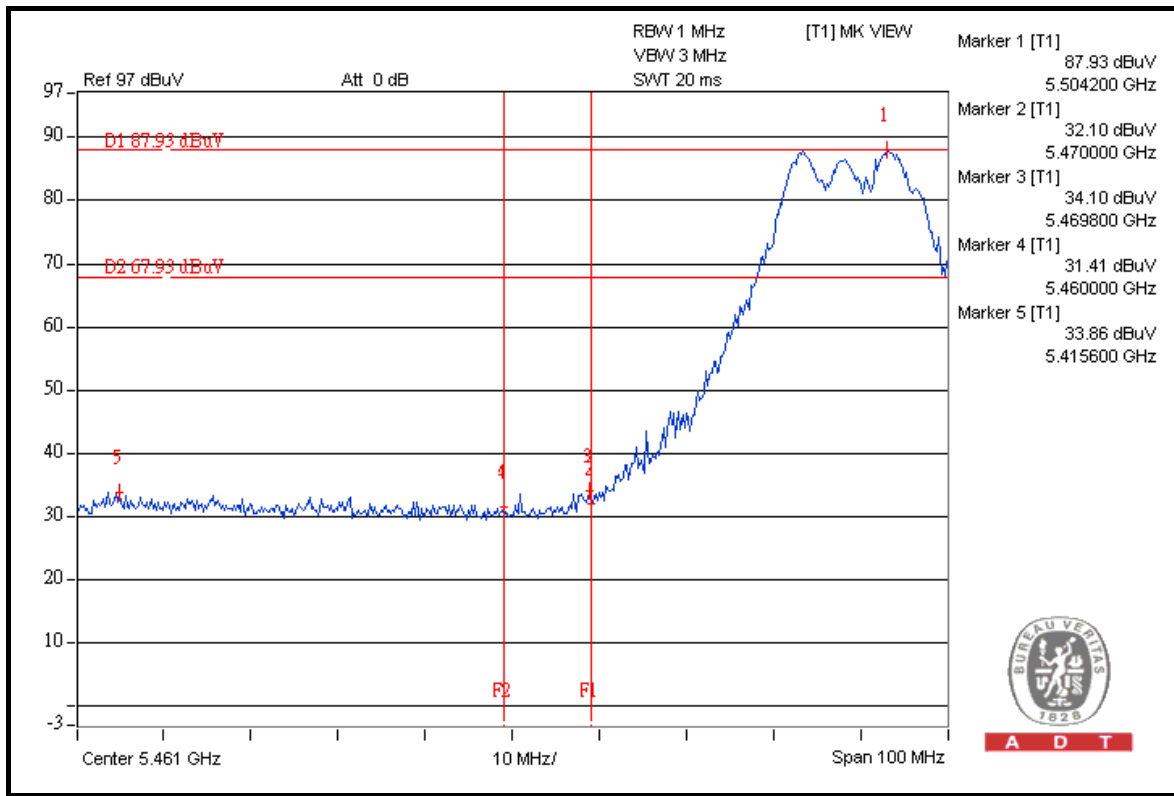
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	112.9	48.08	64.82	68.30

**NOTE:**

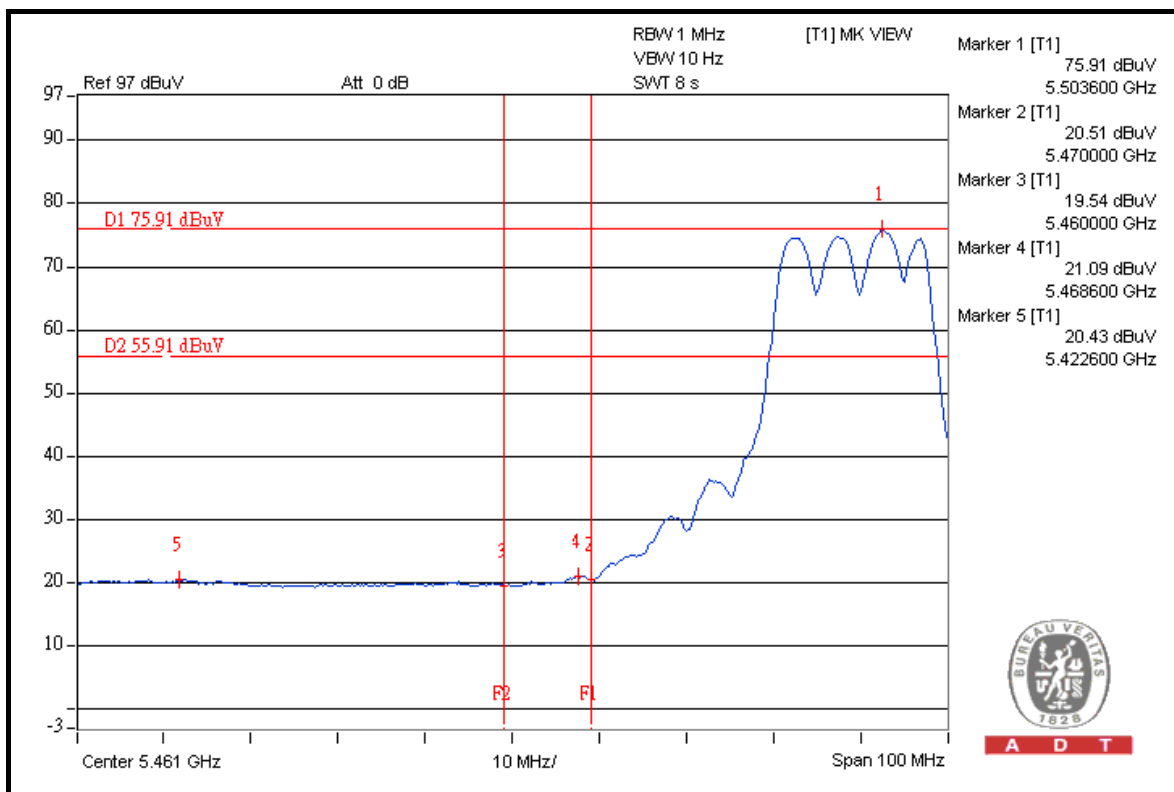
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



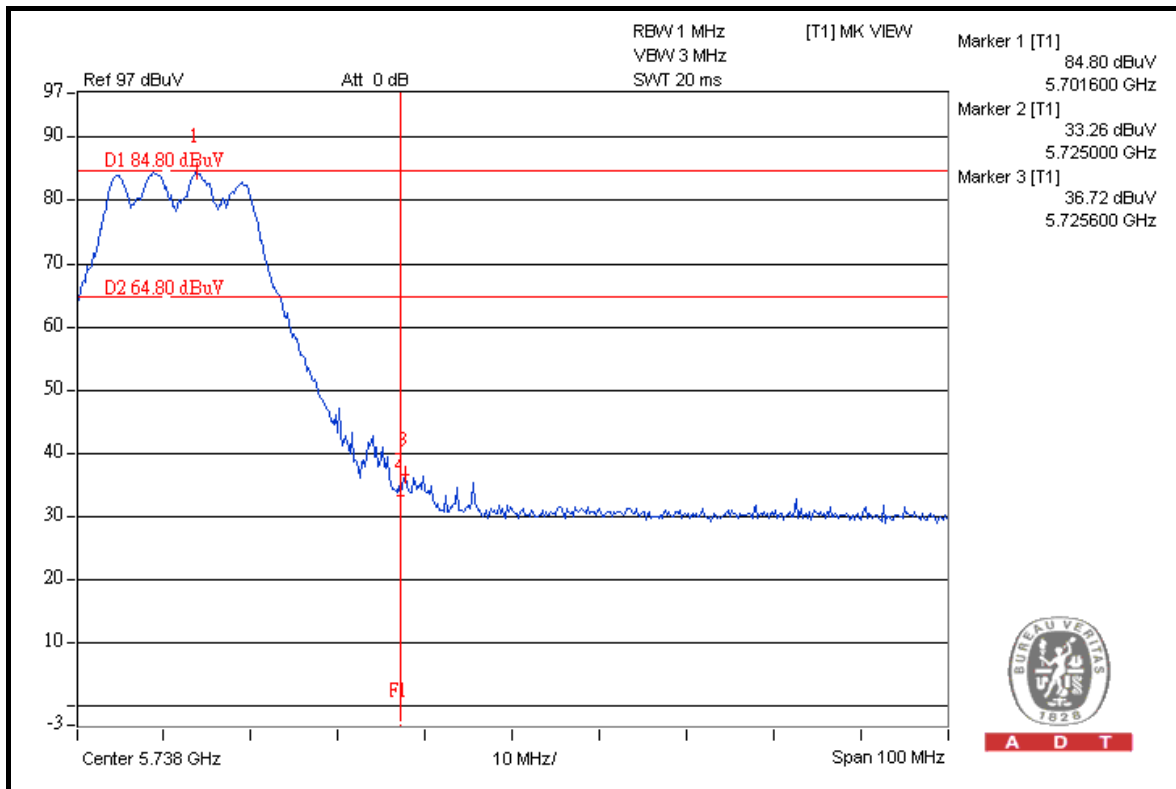
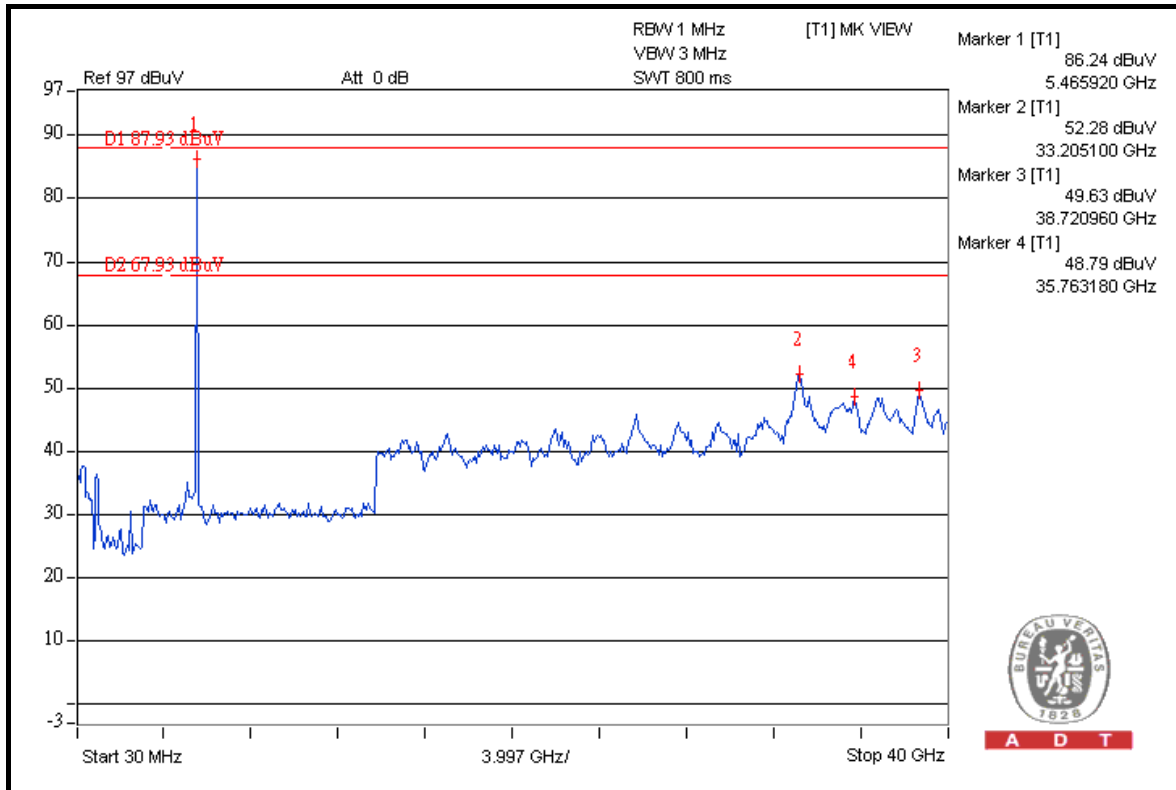
A D T



A D T

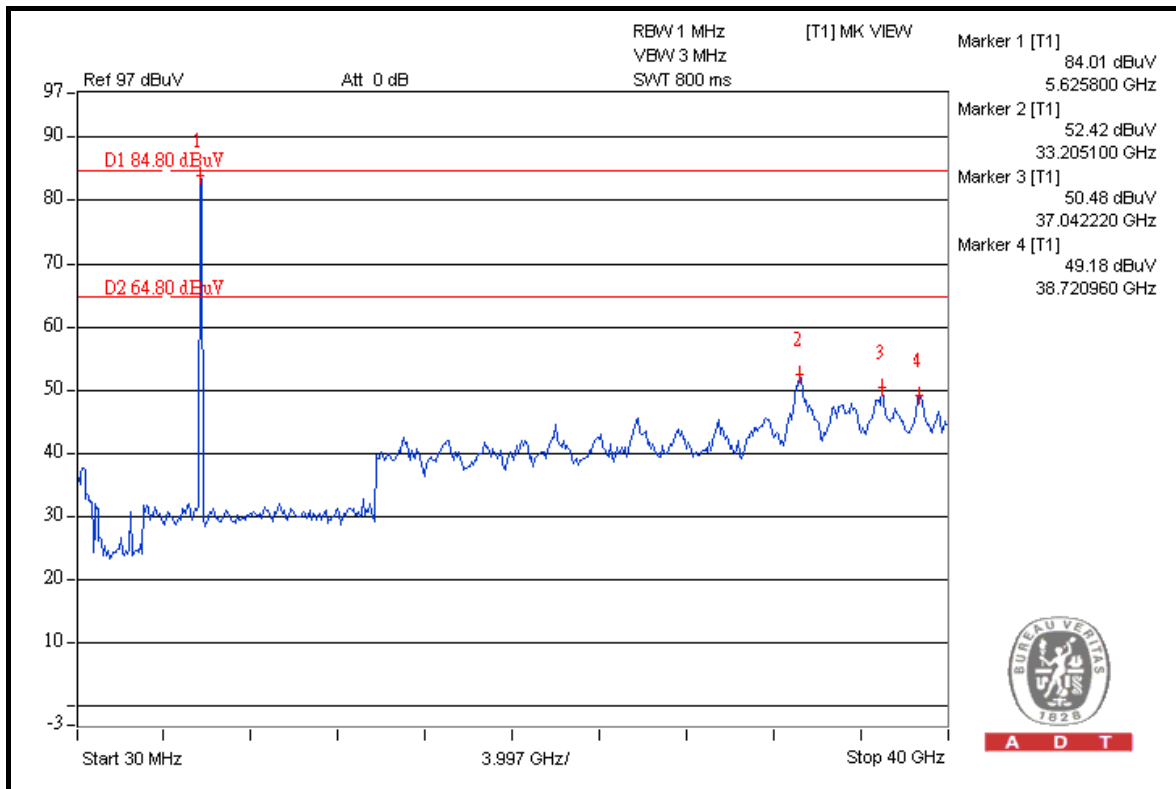
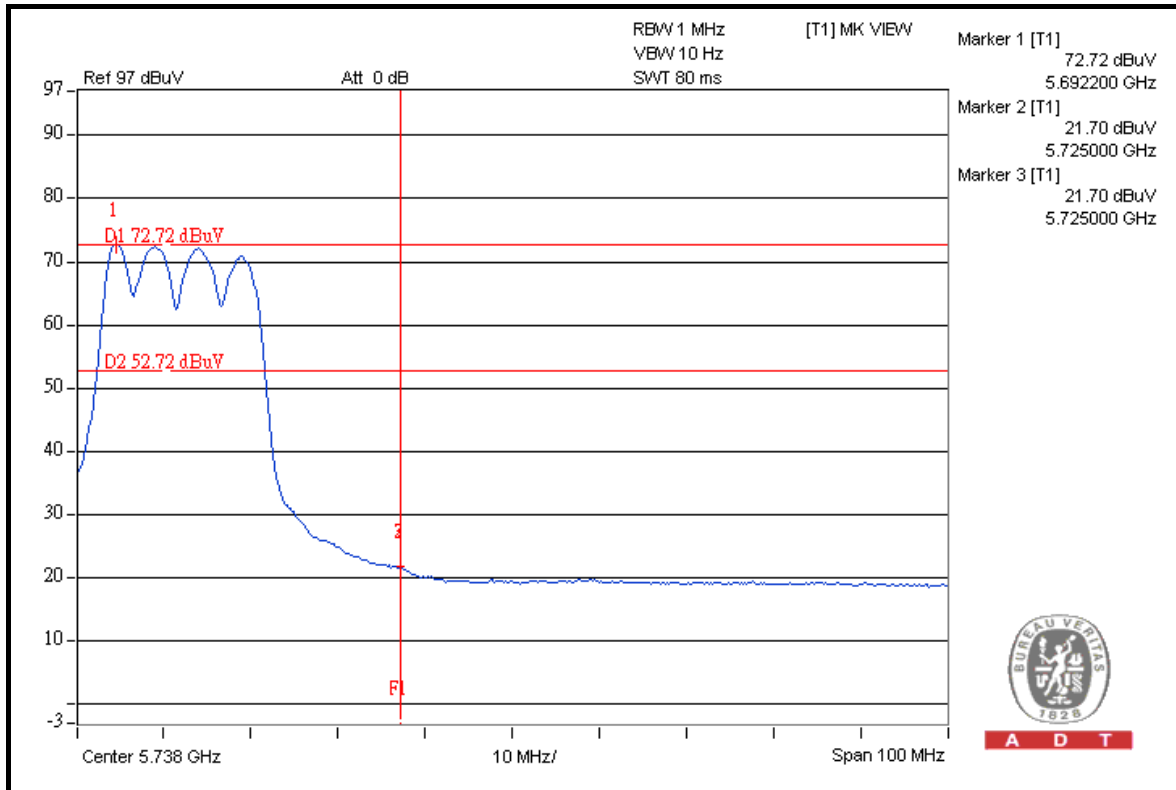


A D T





A D T



**FOR 5260-5320MHz BAND:**

**802.11n (20MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	116.5	55.15	61.35	74.00
5260.00 (AV)	104.5	56.97	47.53	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	115.7	51.95	63.75	74.00
5320.00 (AV)	103.5	55.85	47.65	54.00

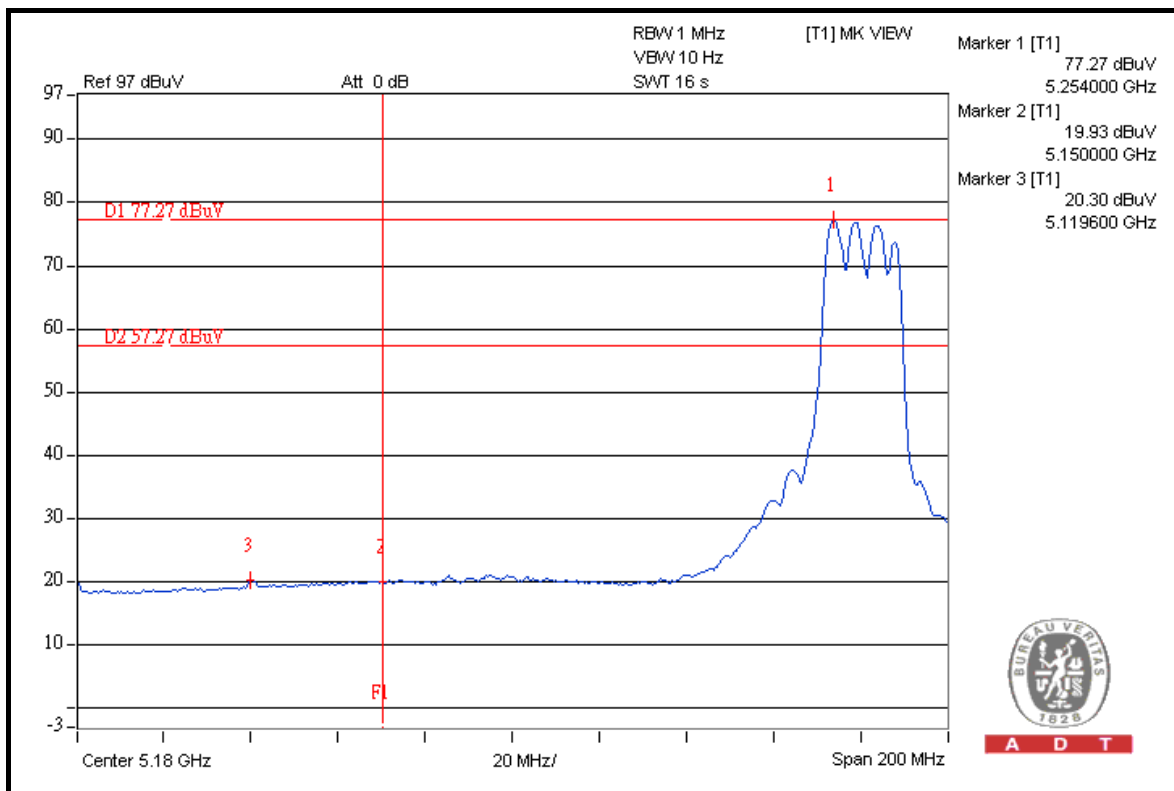
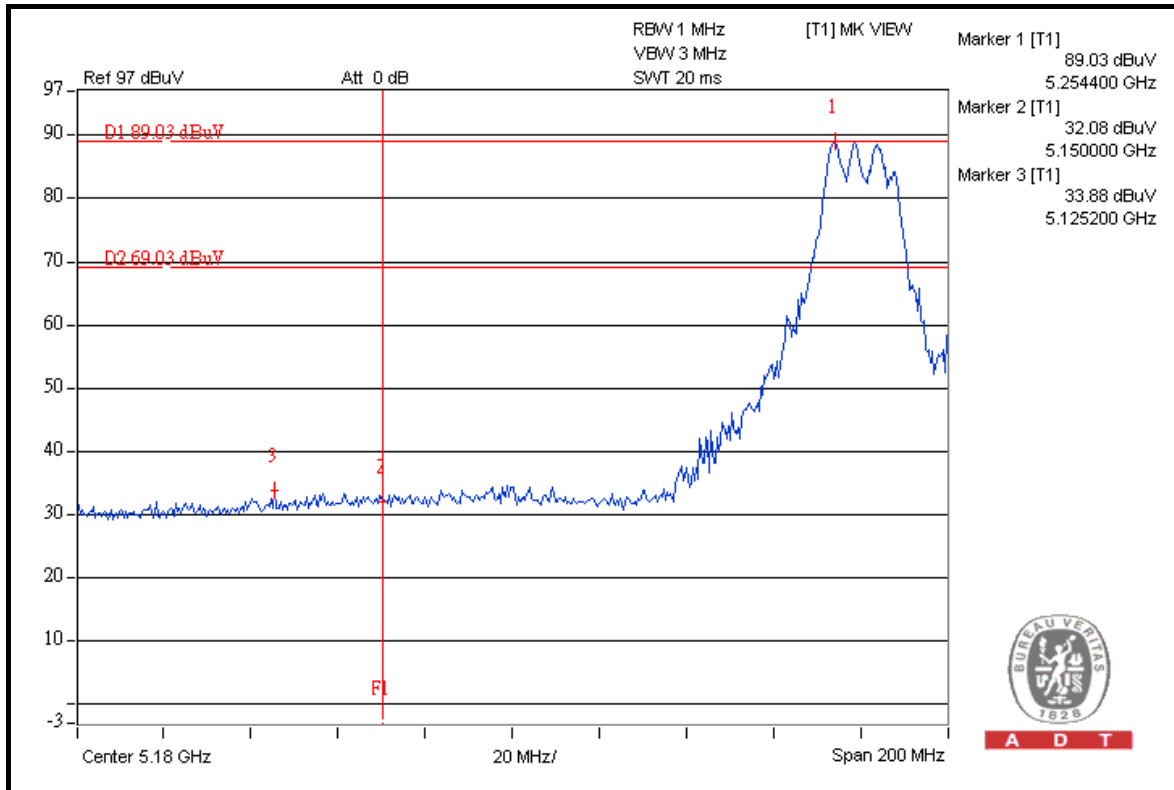
**NOTE:**

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



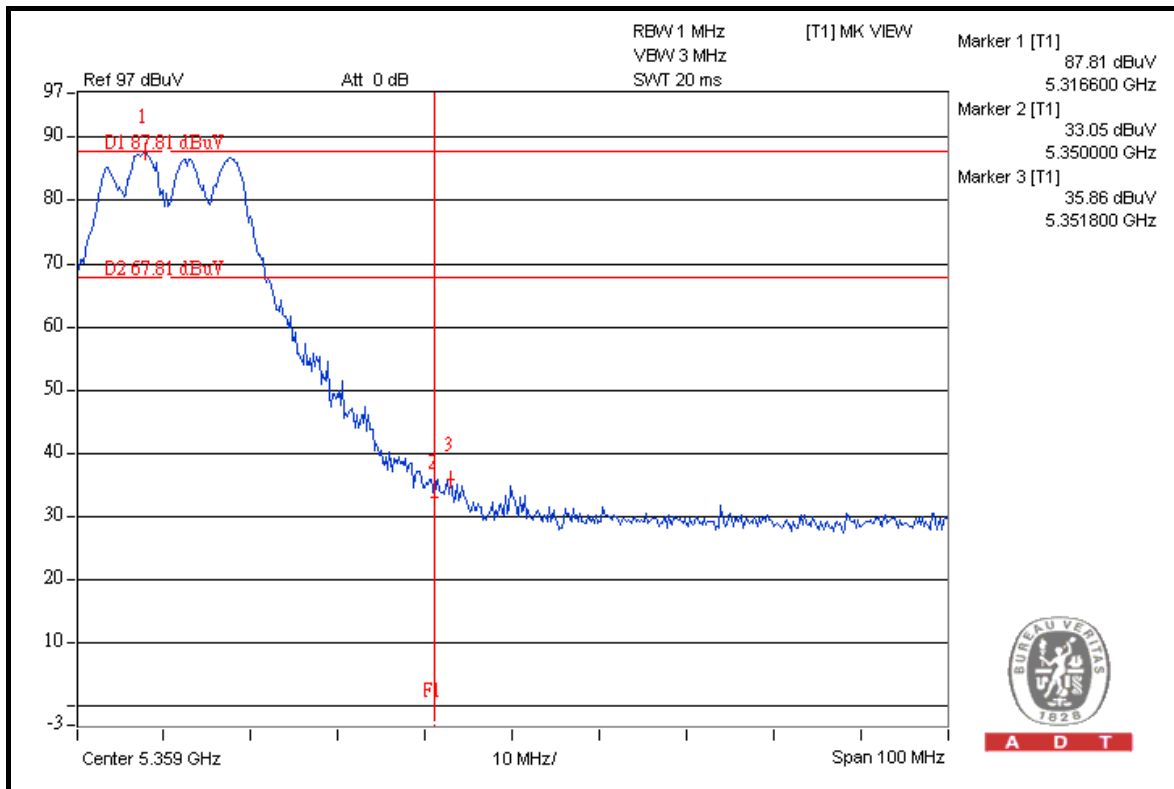
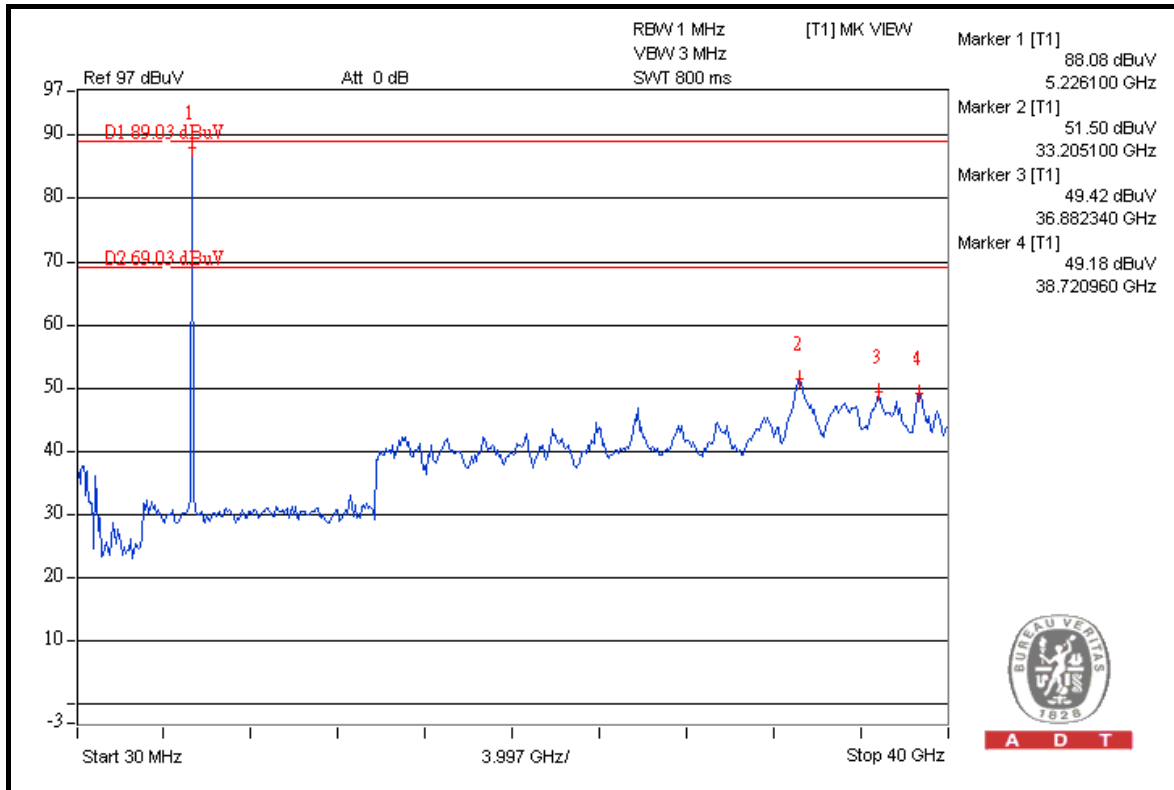


A D T



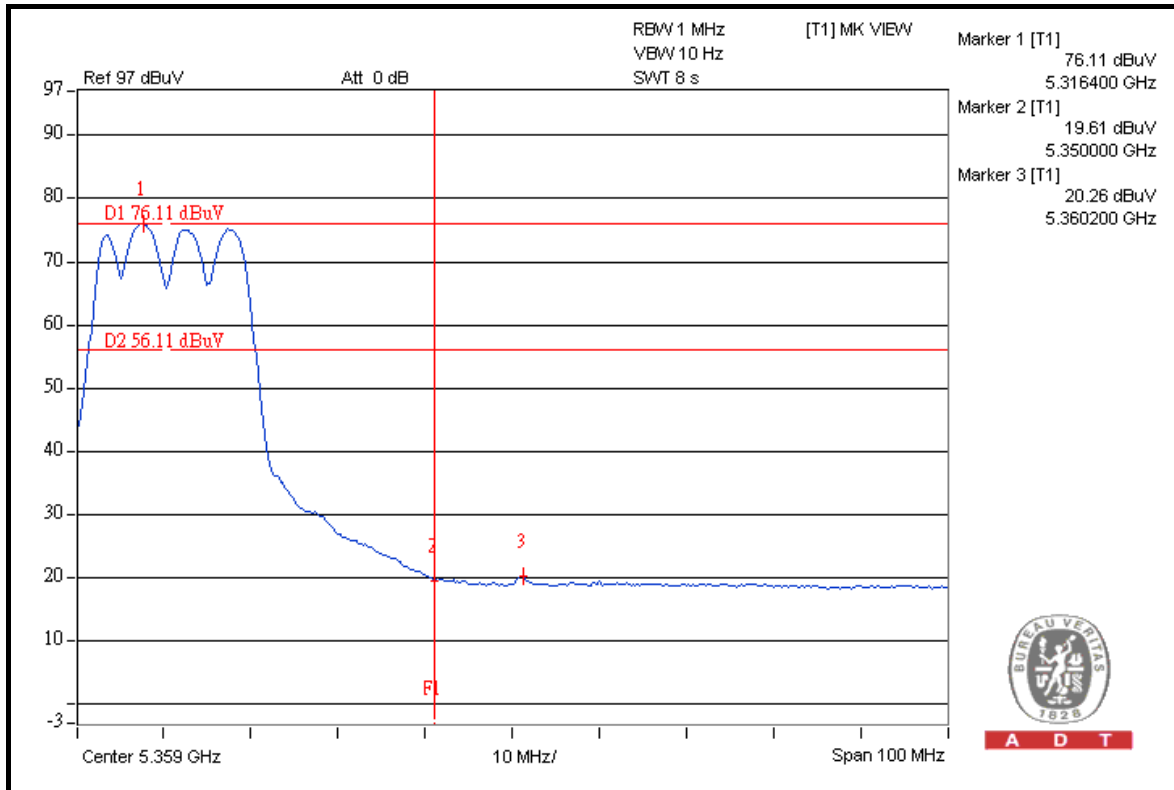


A D T

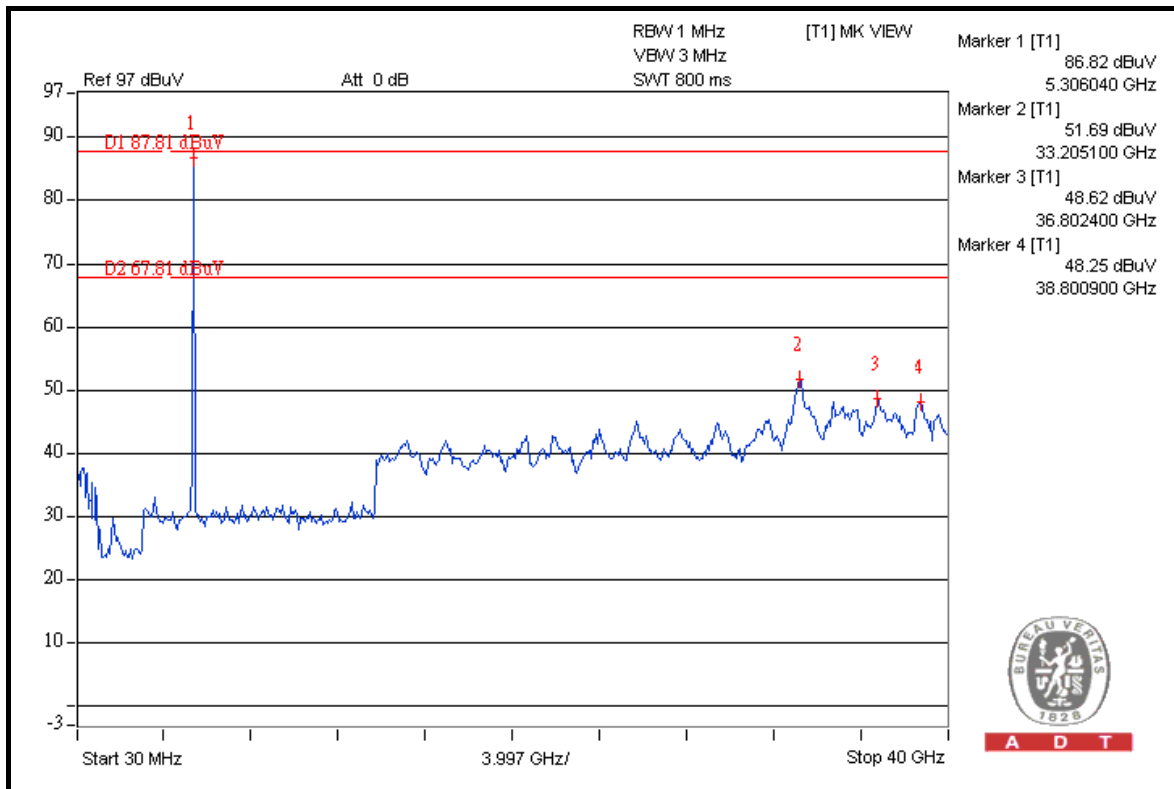




A D T



A D T



A D T

**FOR 5500-5700MHz BAND:**

**802.11n (20MHz)**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.2	52.92	62.28	74.00
5500.00 (AV)	103.1	54.70	48.40	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	115.2	51.69	63.51	68.30

**5700MHz**

**ABOVE 5725 MHz**

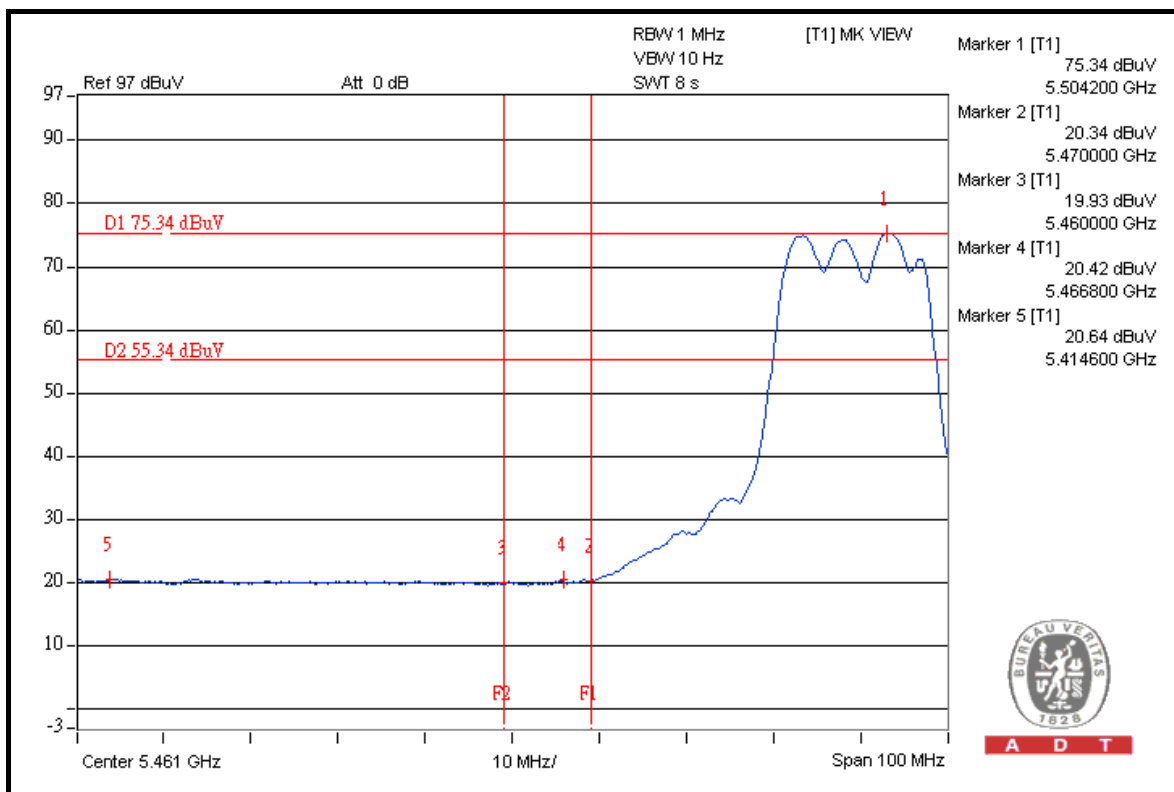
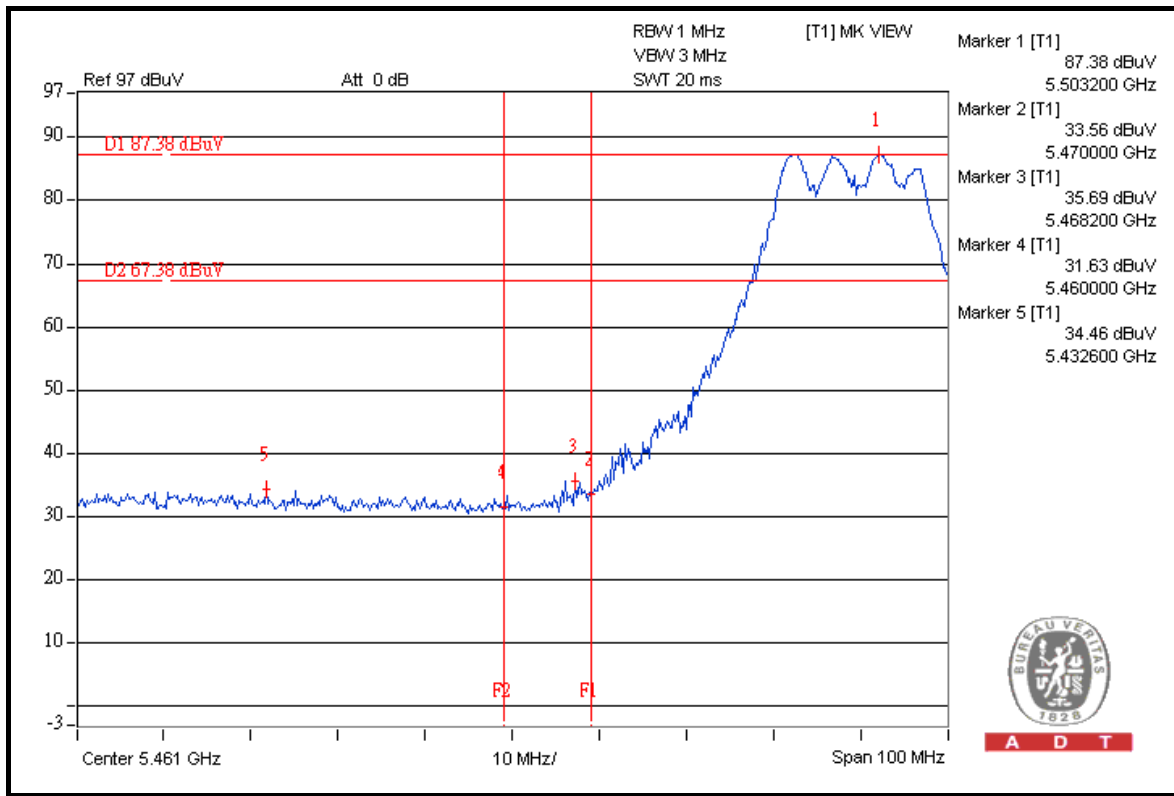
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	112.6	47.07	65.53	68.30

**NOTE:**

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

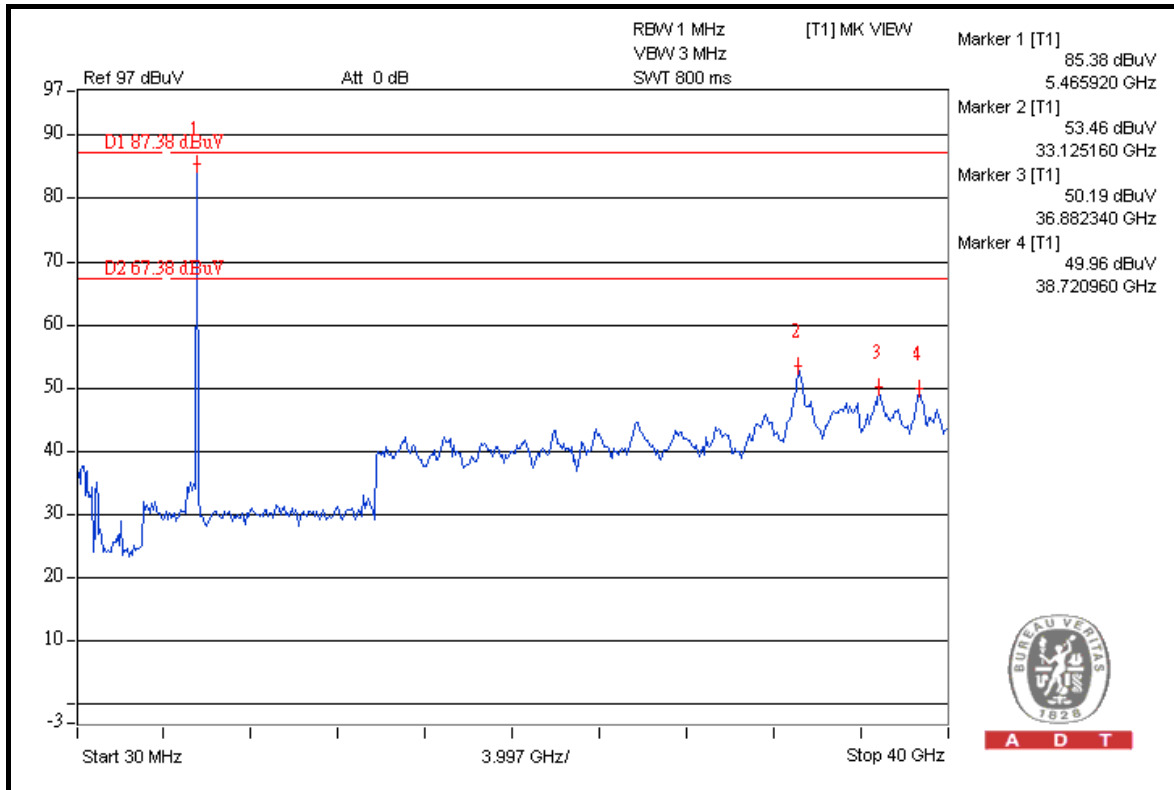


A D T

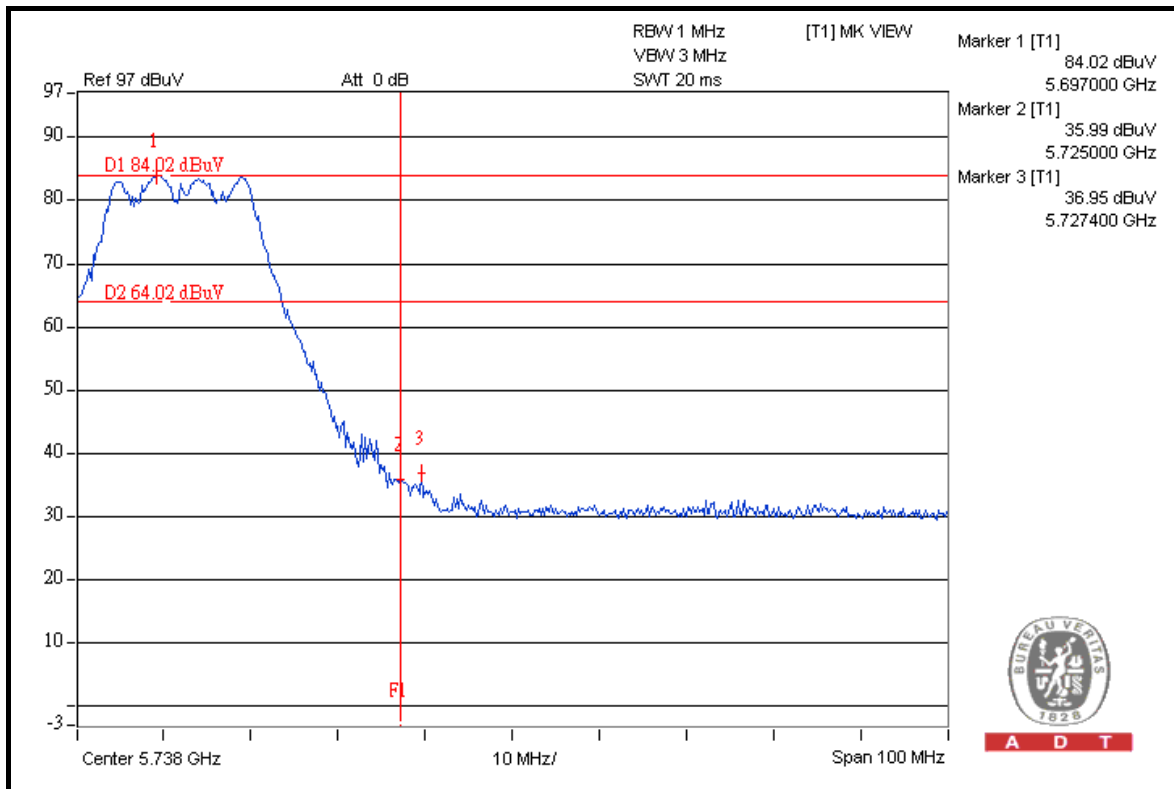




A D T



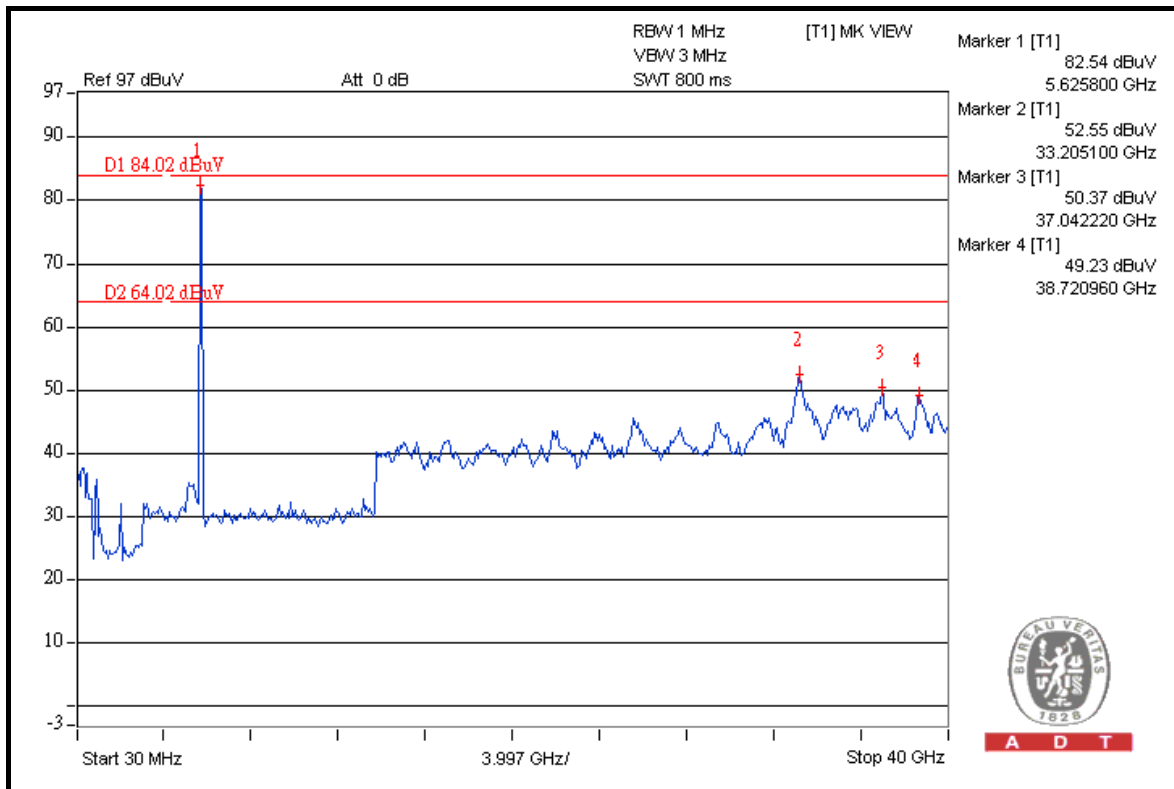
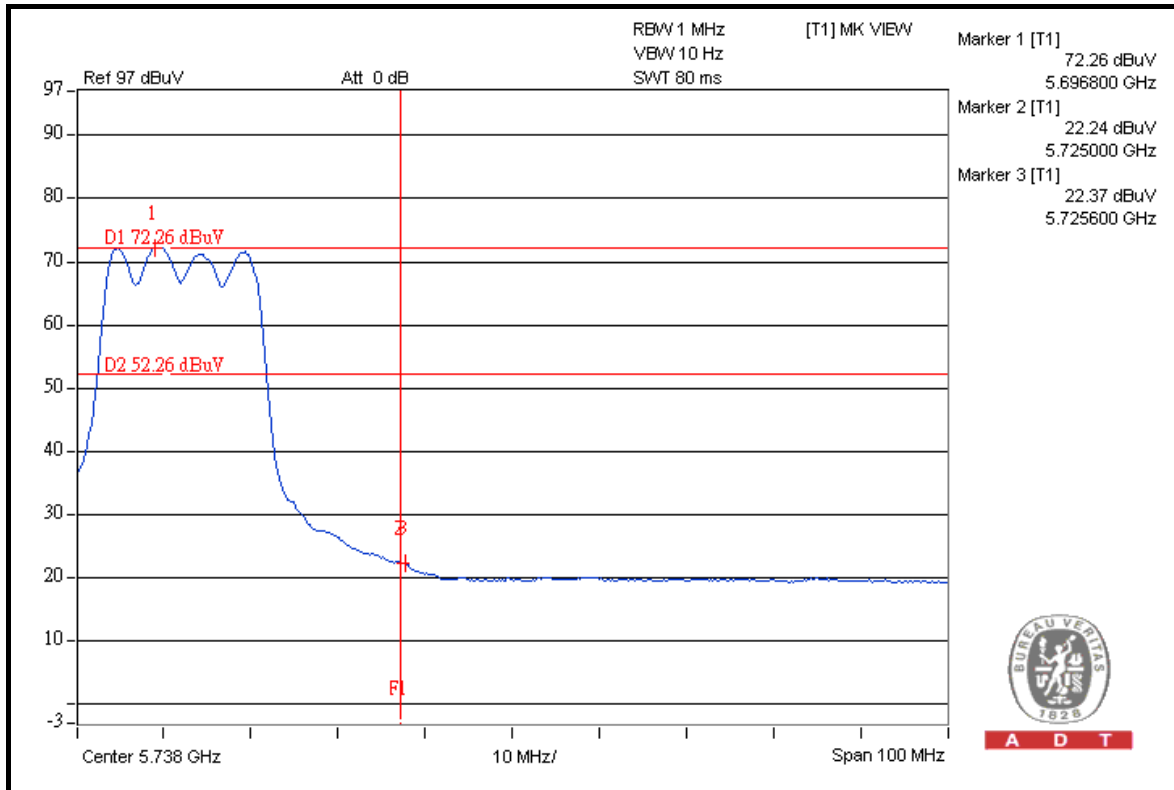
A D T



A D T



A D T



**FOR 5260-5320MHz BAND:**

**802.11n (40MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5270.00 (PK)	115.0	55.01	59.99	74.00
5270.00 (AV)	103.1	55.53	47.57	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5310.00 (PK)	114.6	41.78	72.82	74.00
5310.00 (AV)	102.5	50.15	52.35	54.00

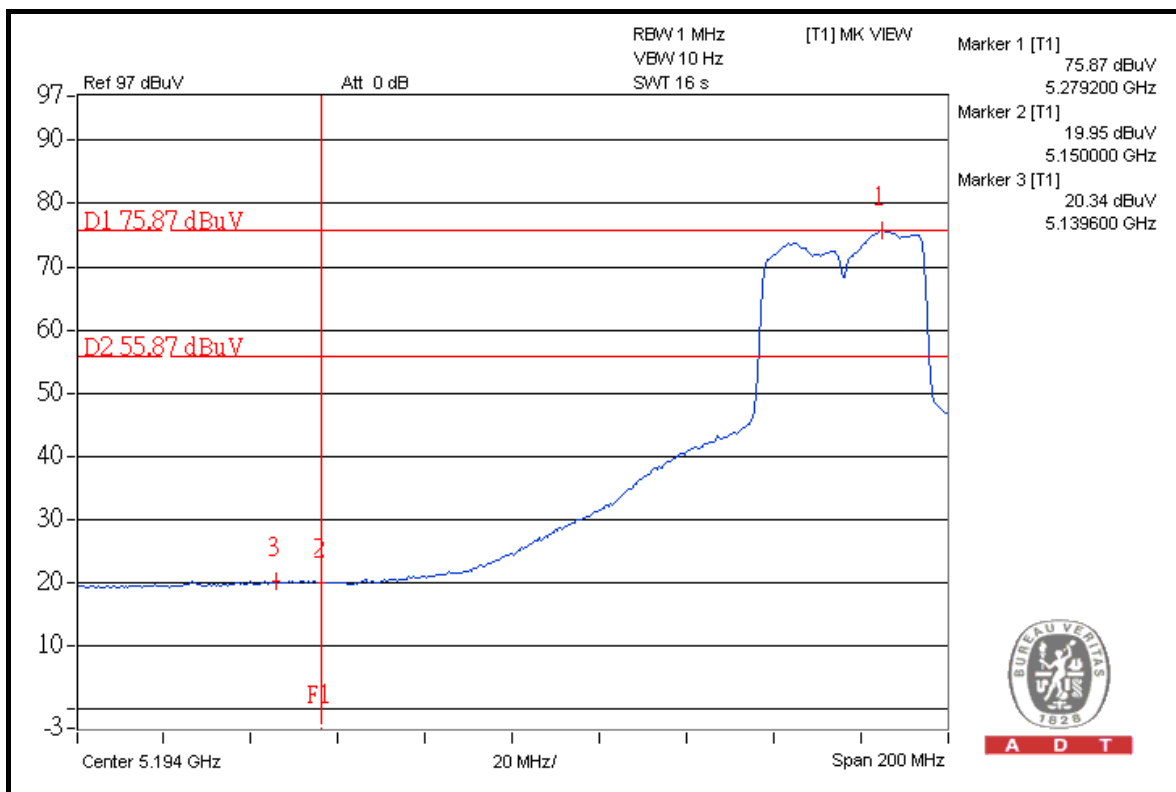
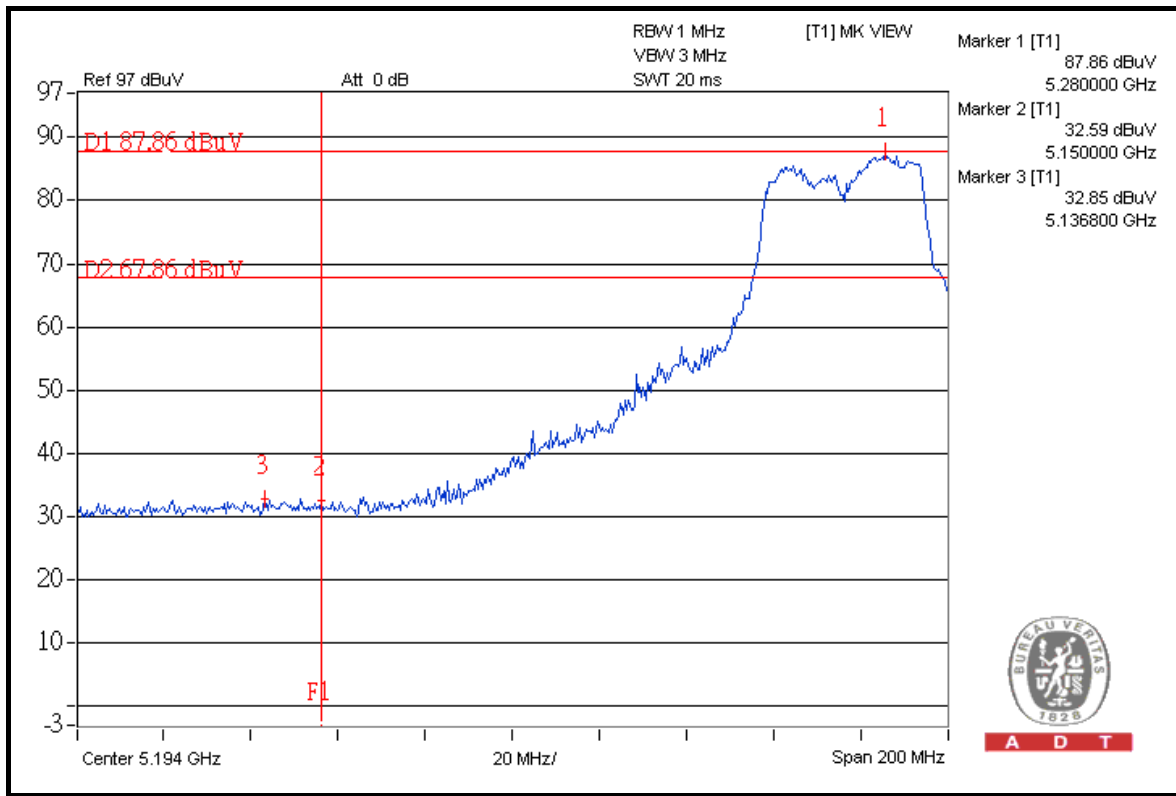
**NOTE:**

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



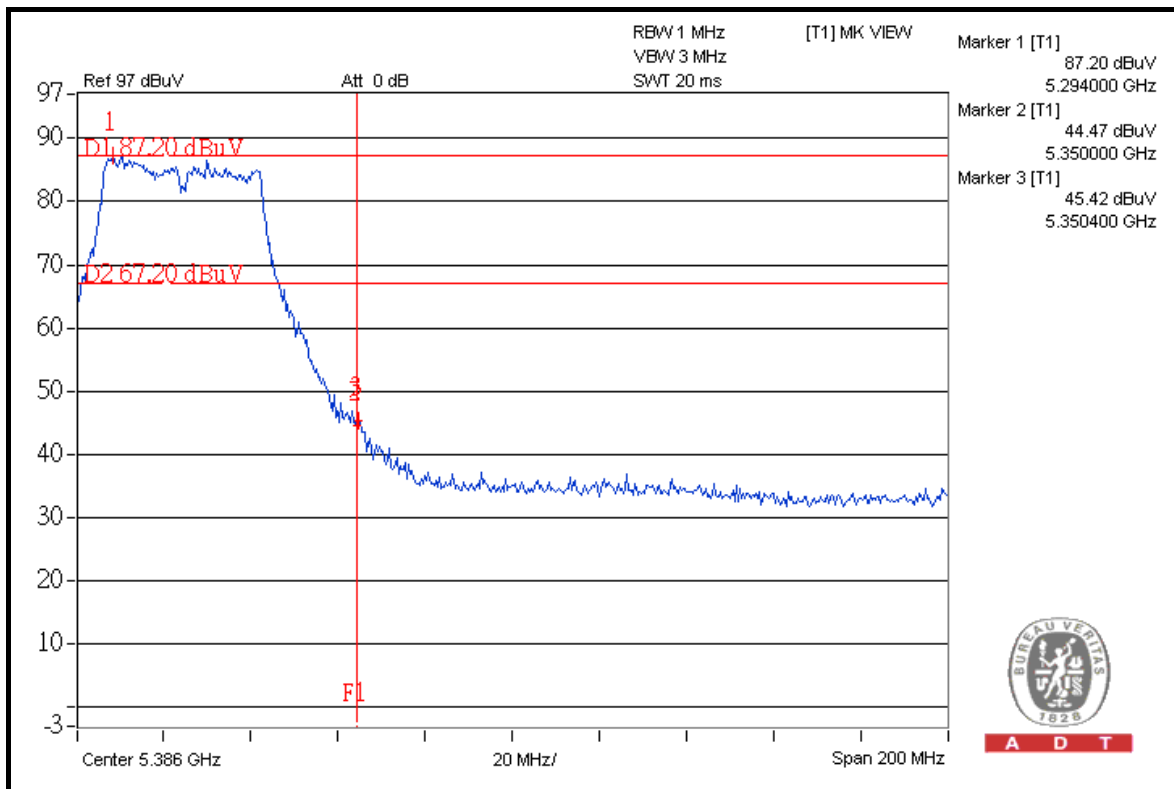
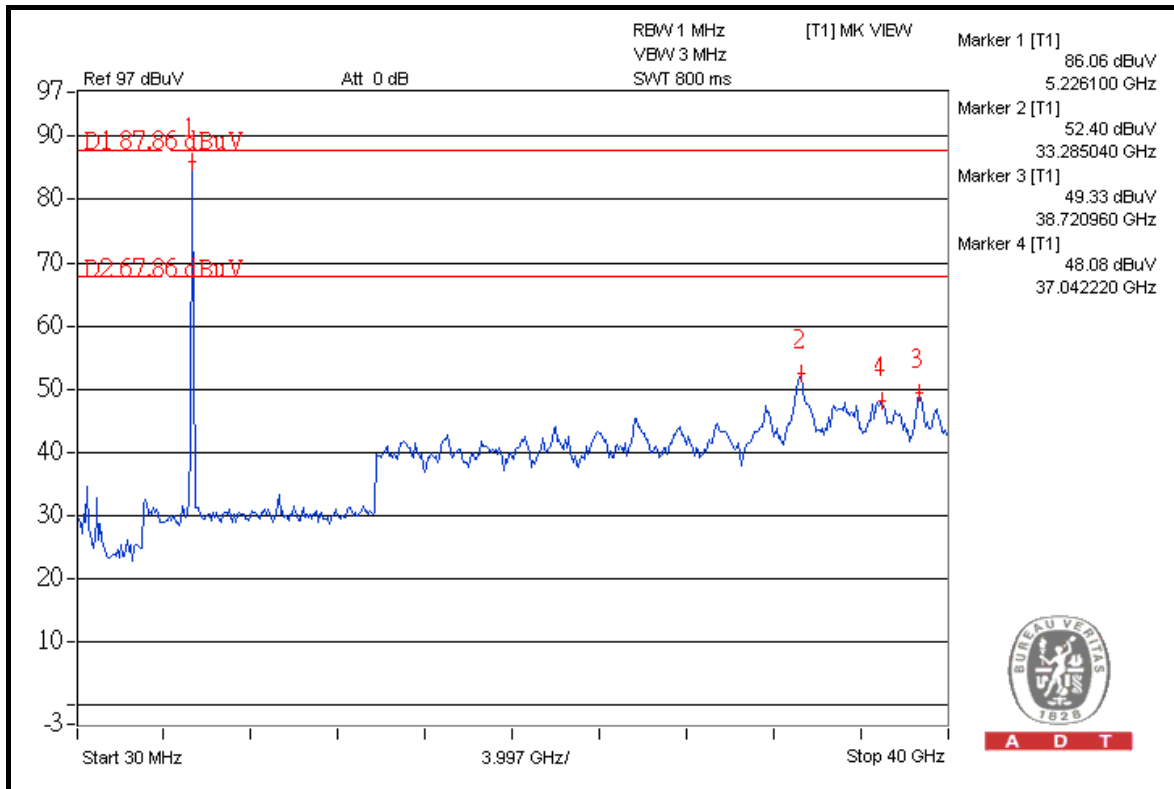


A D T



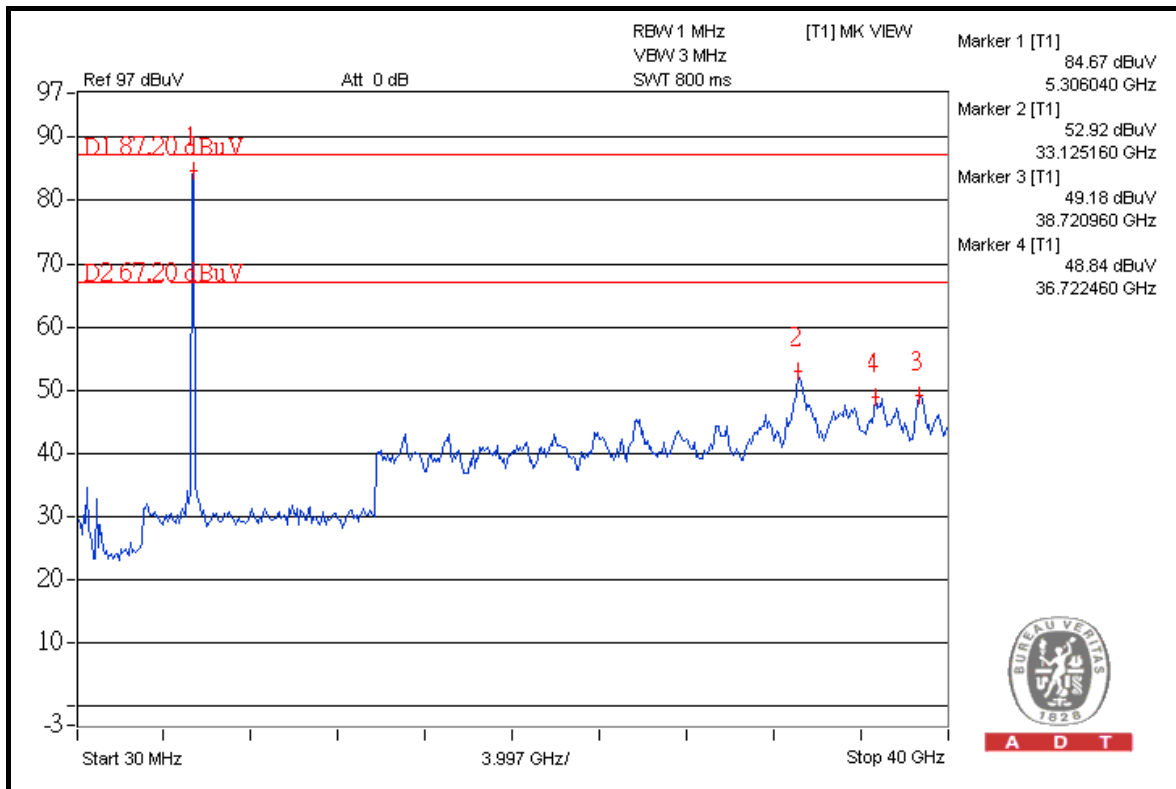
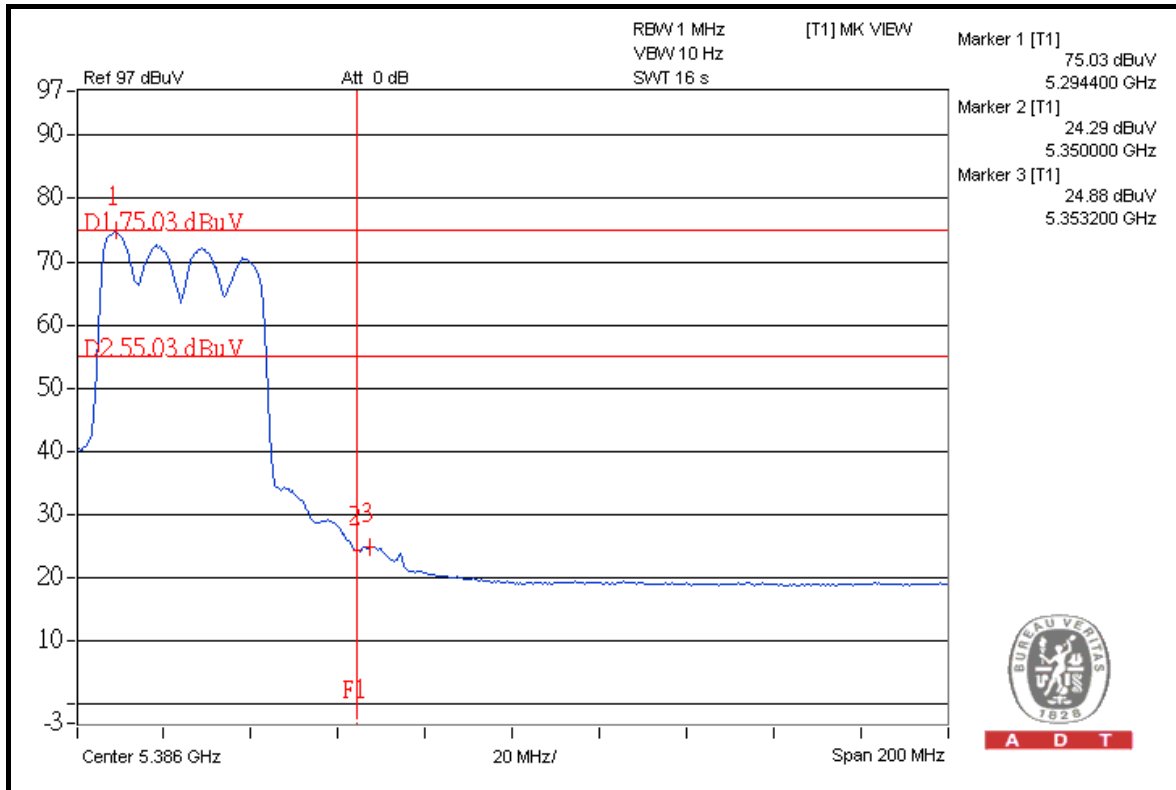


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (40MHz)**

**5510MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	110.5	47.79	62.71	74.00
5510.00 (AV)	98.2	50.69	47.51	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

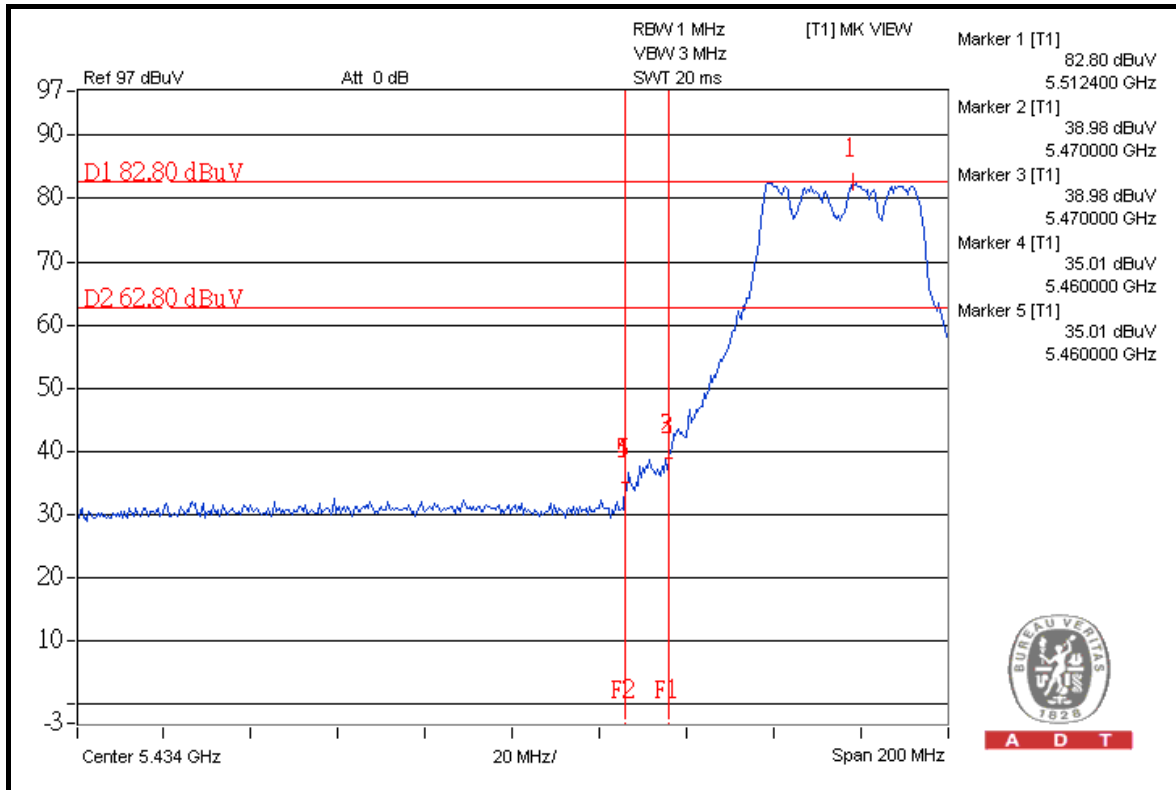
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	110.5	43.82	66.68	68.30

**NOTE:**

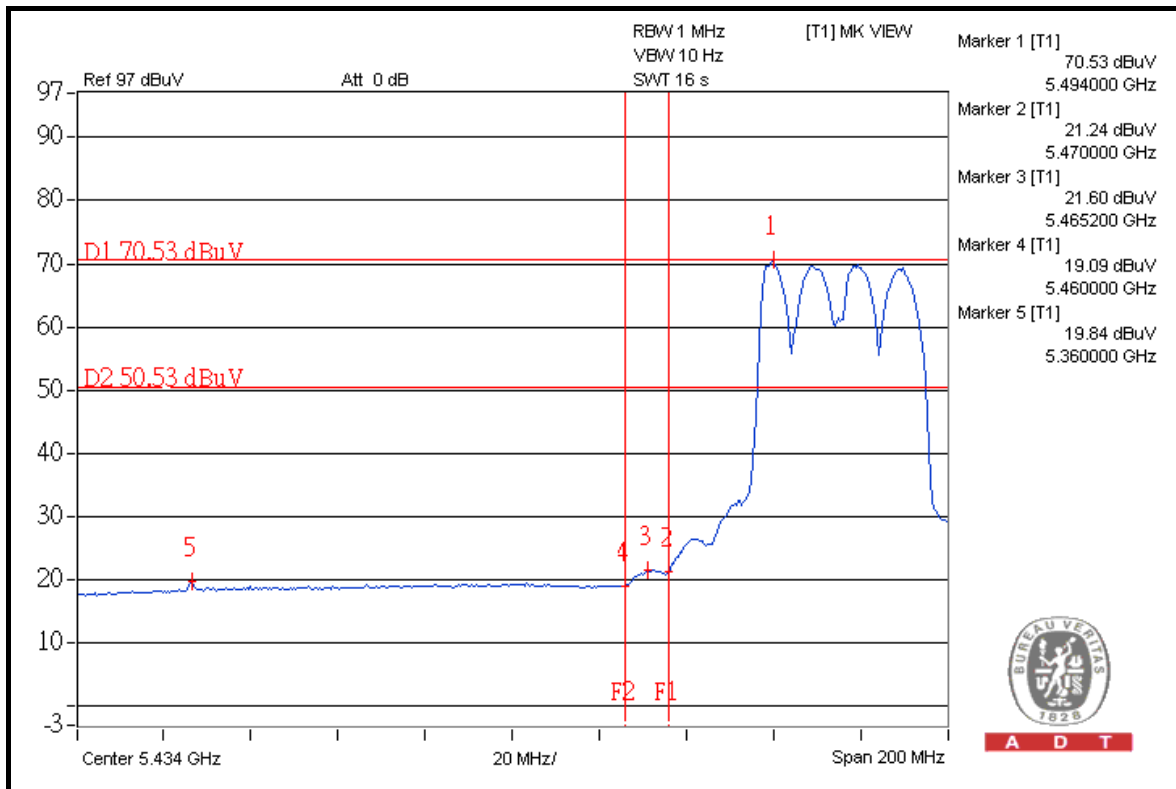
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



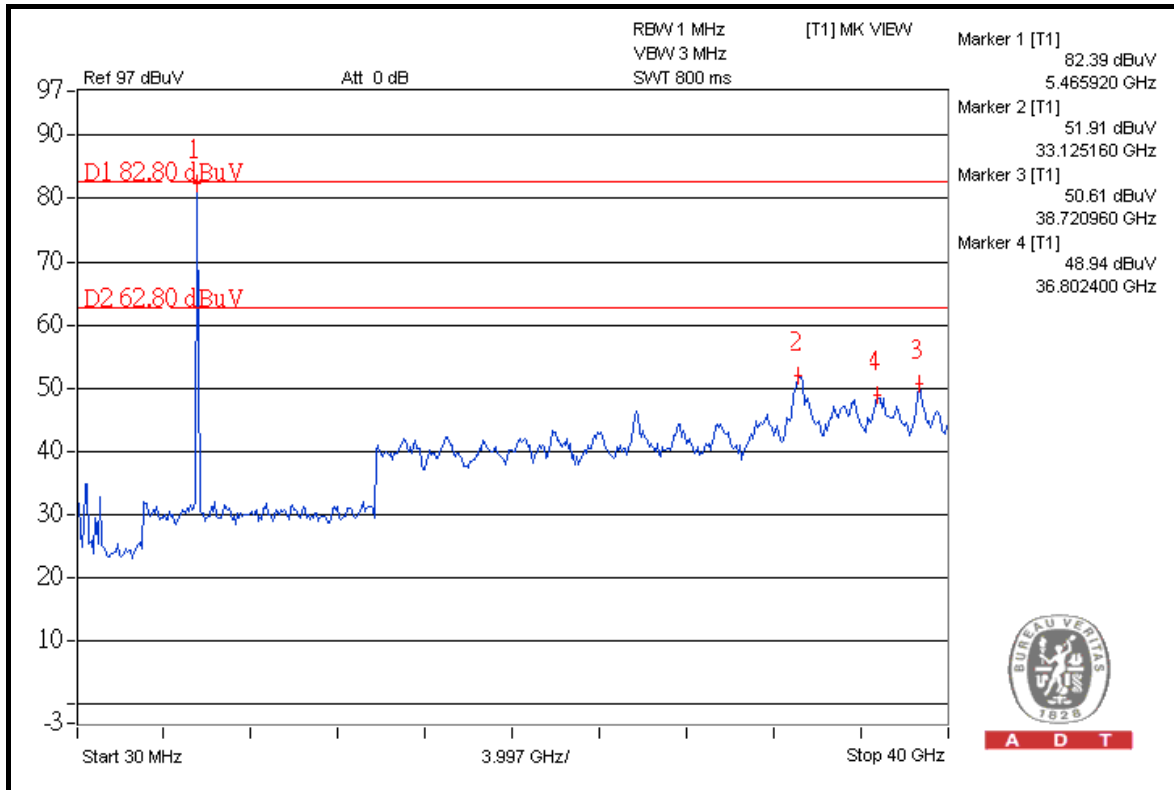
A D T



A D T



A D T



#### 4.7.8 TEST RESULTS (C1)

For signals in the restricted bands above and below the 5.26 to 5.32GHz, 5.50 to 5.70GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

#### FOR 5260-5320MHz BAND: 802.11a

##### RESTRICT BAND (4500 ~ 5150 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	113.0	52.64	60.36	74.00
5260.00 (AV)	100.7	53.10	47.60	54.00

##### RESTRICT BAND (5350 ~ 5460 MHz)

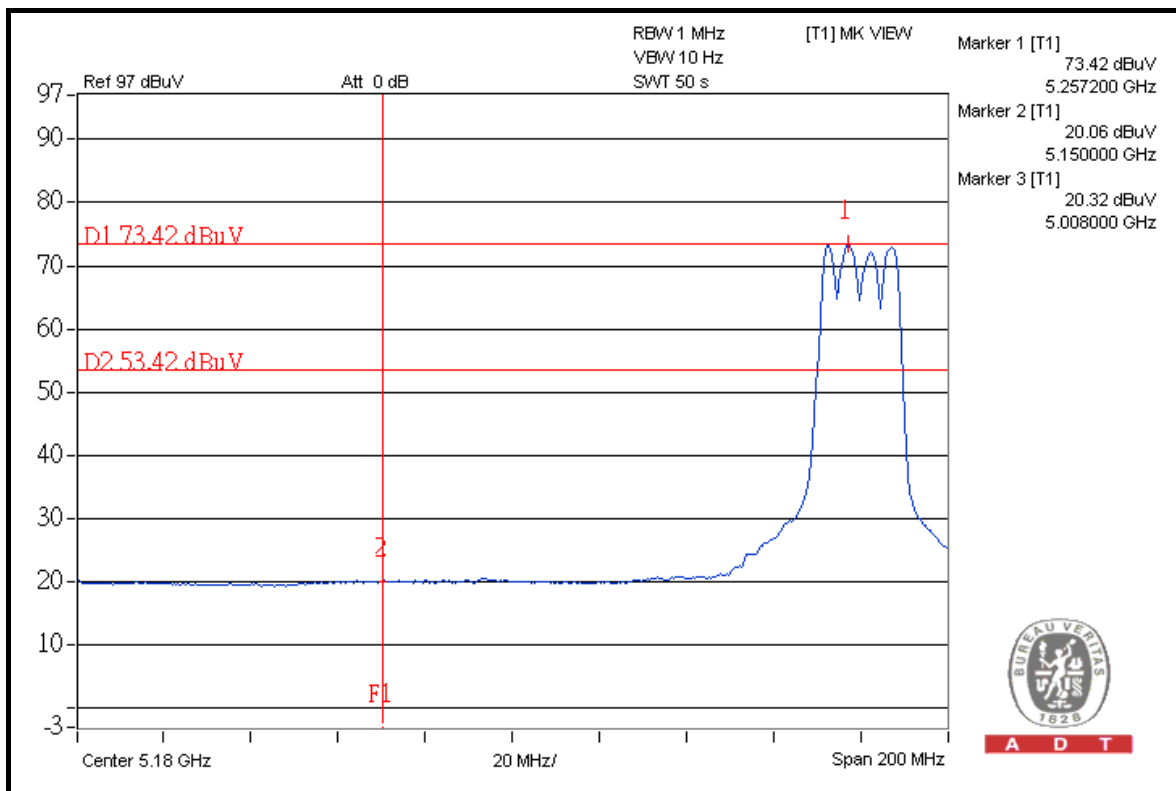
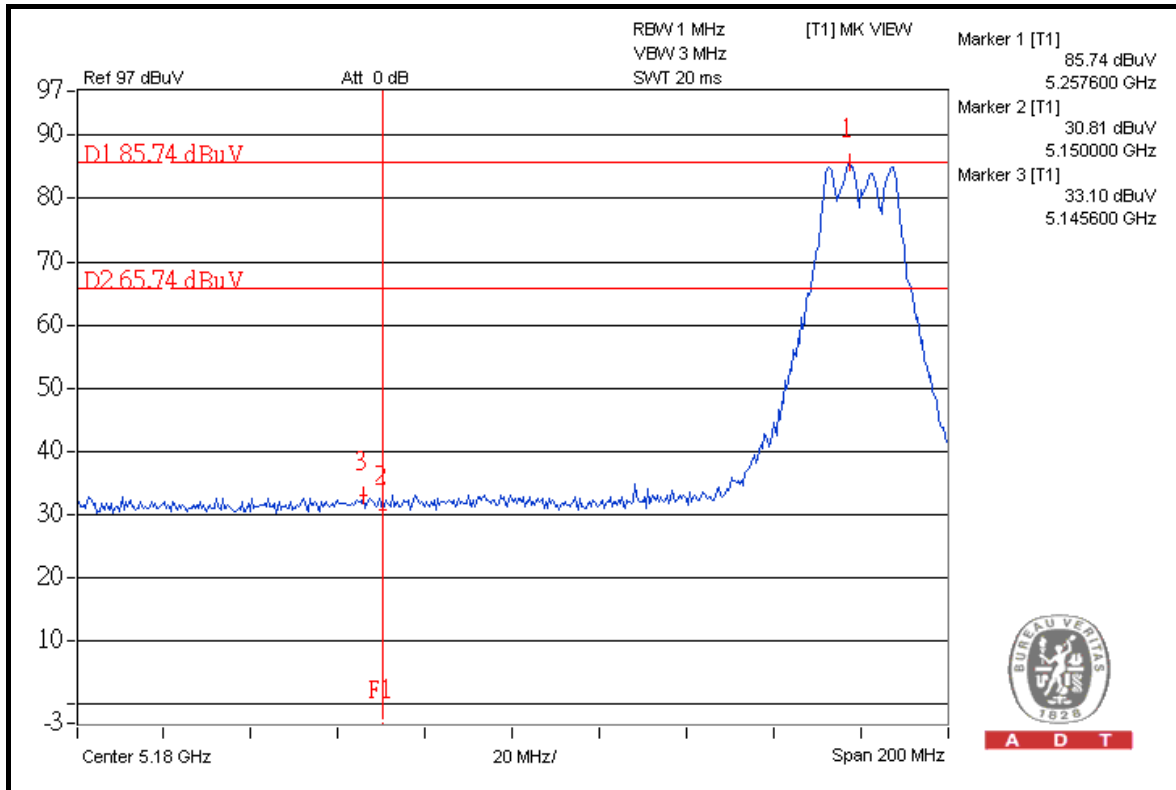
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	112.2	44.34	67.86	74.00
5320.00 (AV)	99.9	52.04	47.86	54.00

#### NOTE:

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



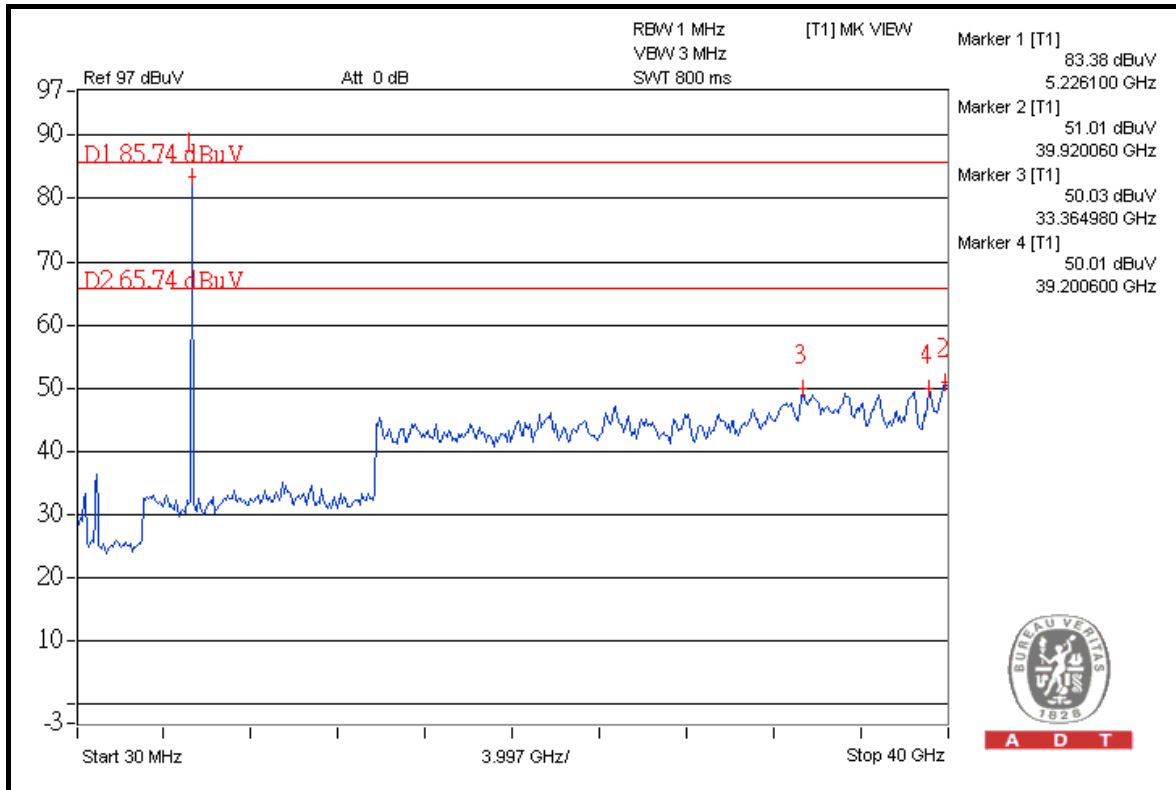
A D T



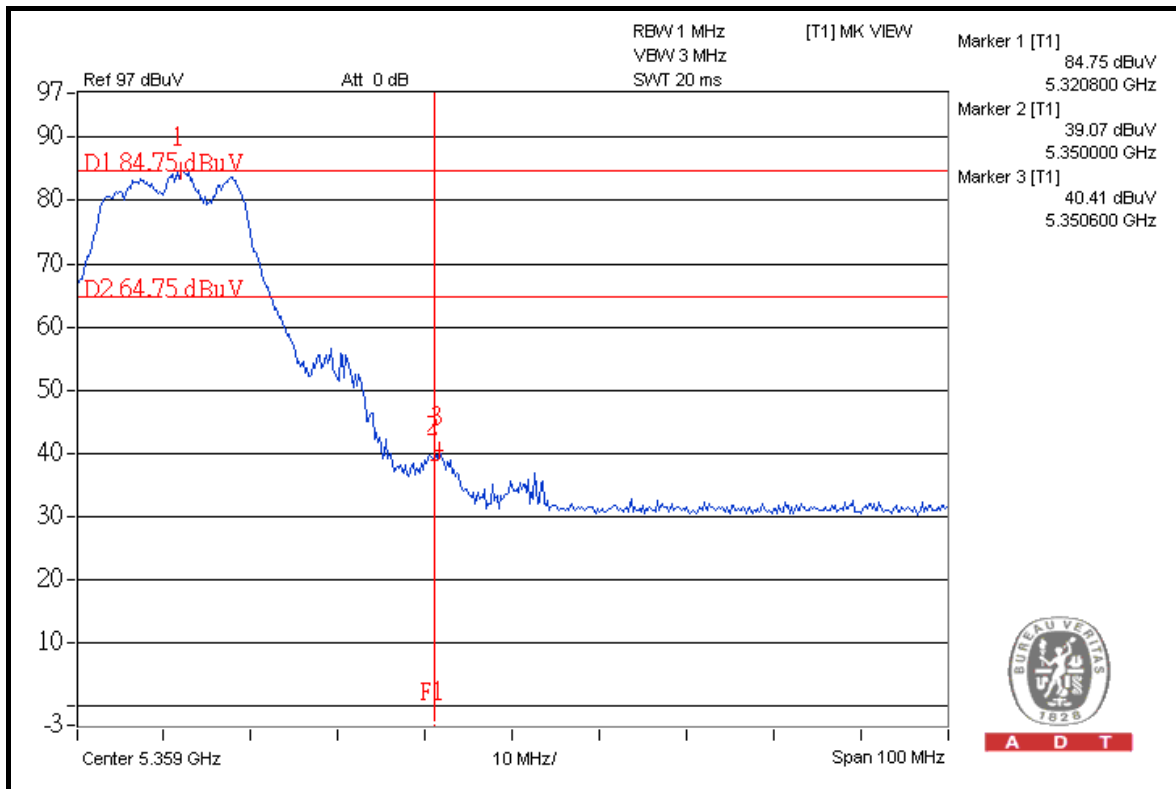




A D T



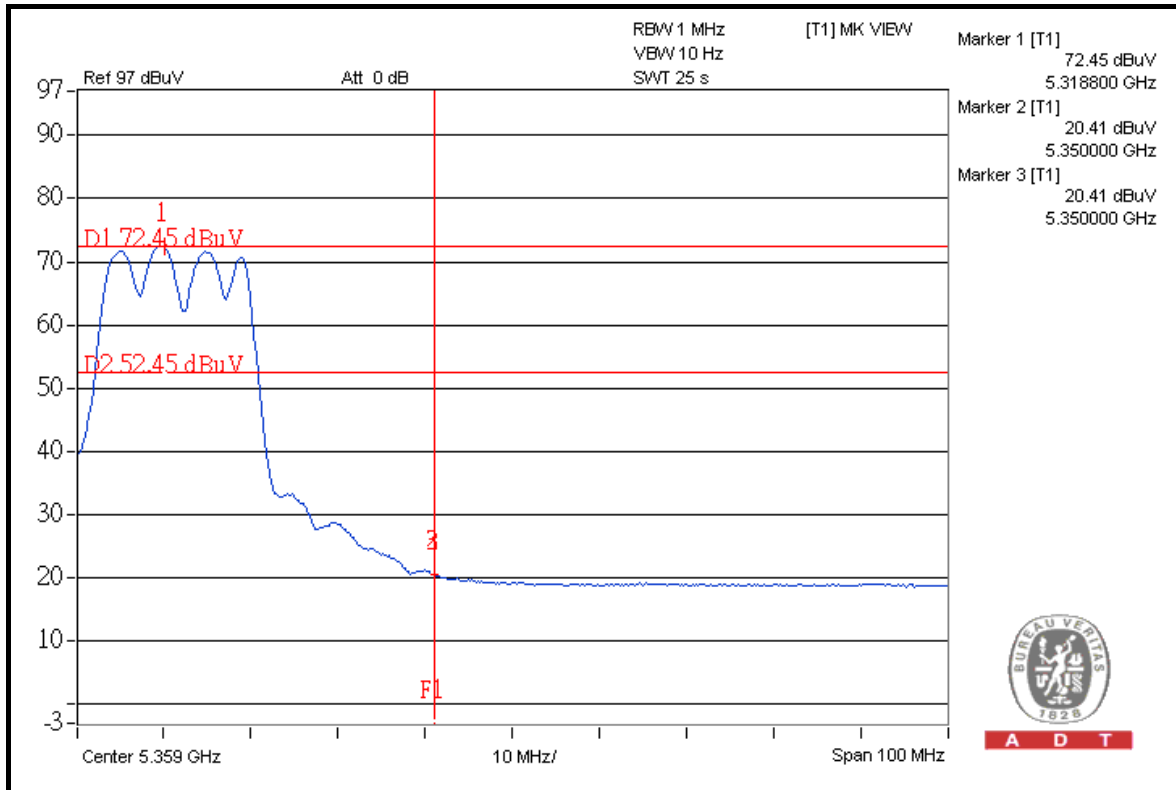
A D T



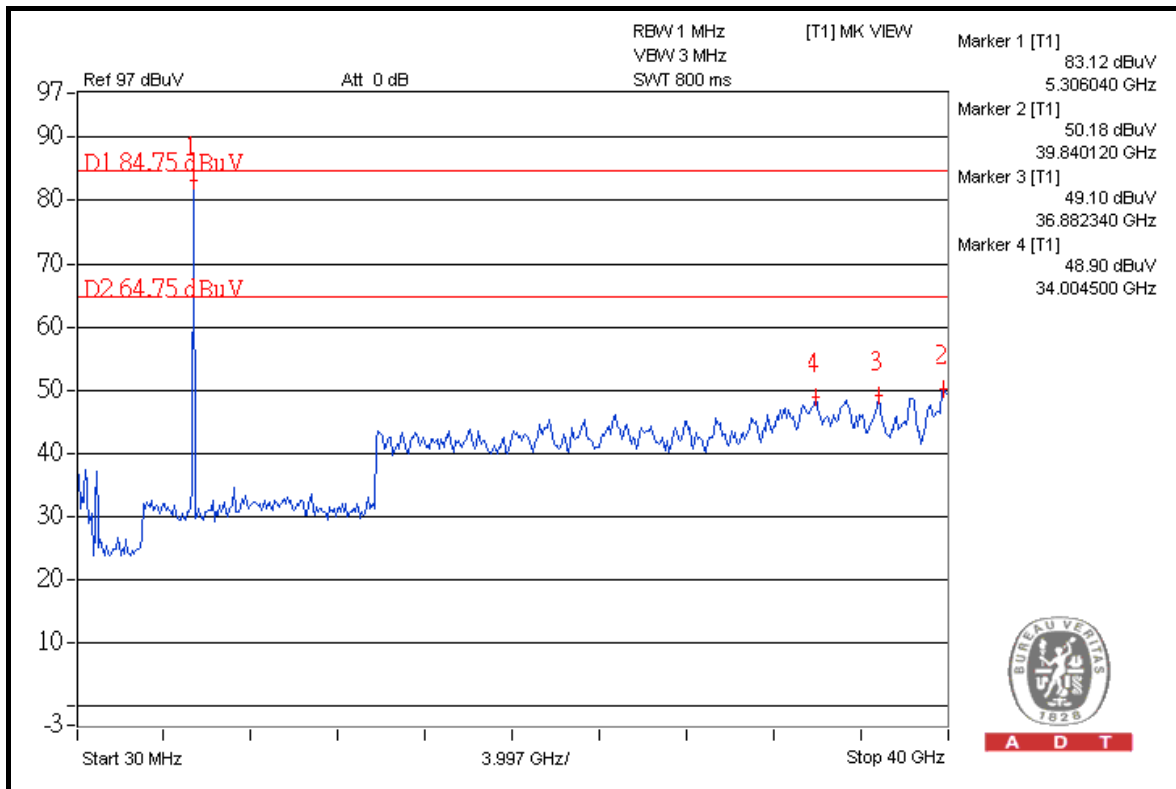
A D T



A D T



A D T



A D T

**FOR 5500-5700MHz BAND:**

**802.11a**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	111.8	51.86	59.94	74.00
5500.00 (AV)	99.7	52.38	47.32	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	111.8	52.61	59.19	68.30

**5700MHz**

**ABOVE 5725 MHz**

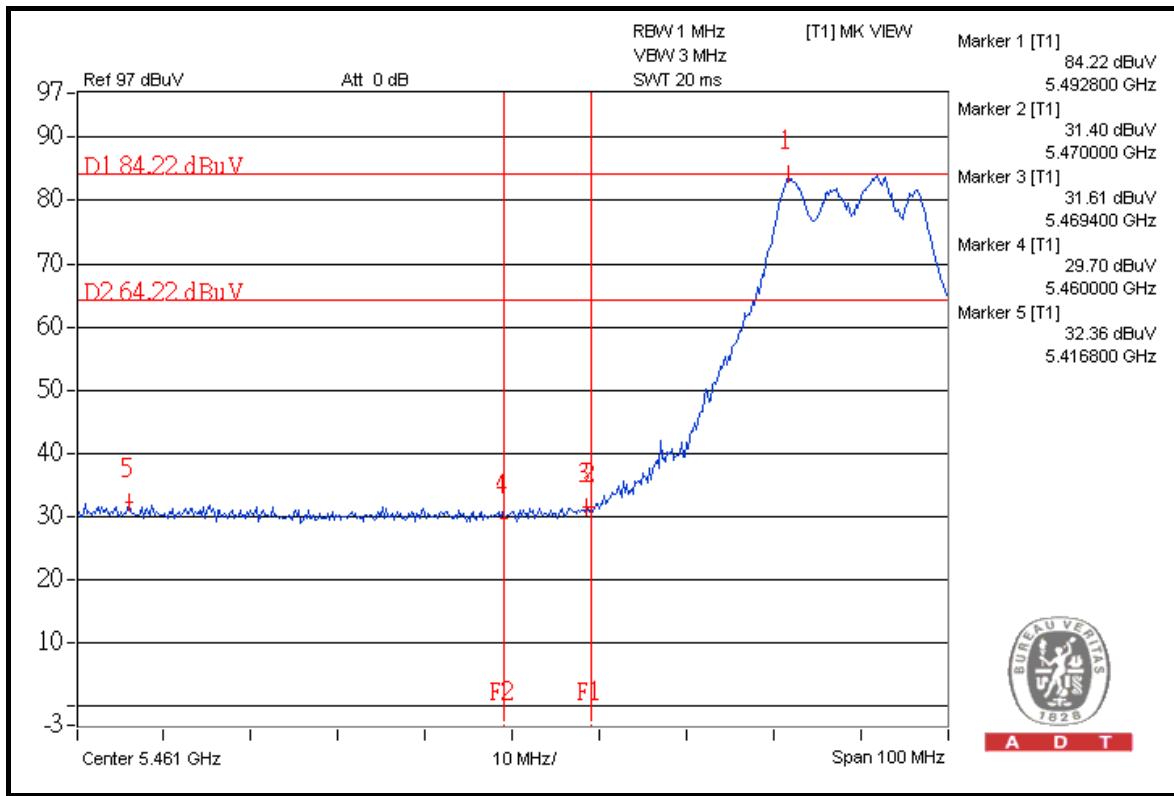
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	110.8	48.98	61.82	68.30

**NOTE:**

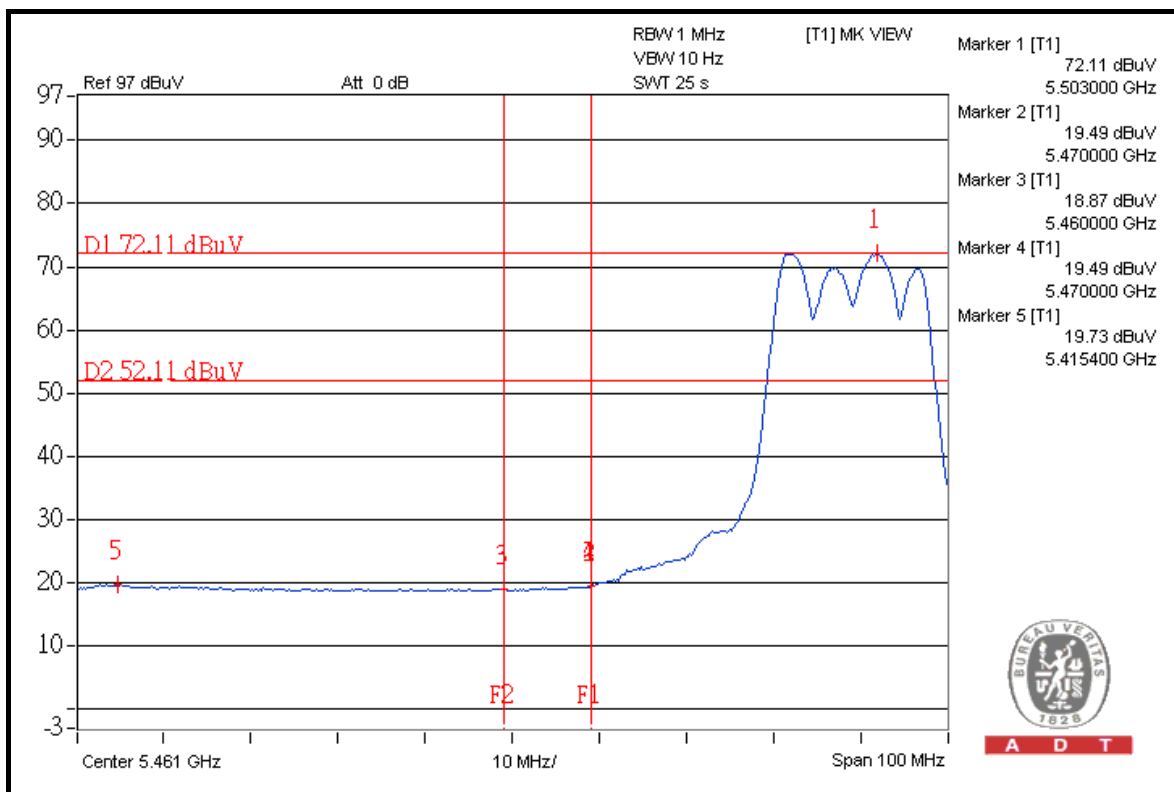
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



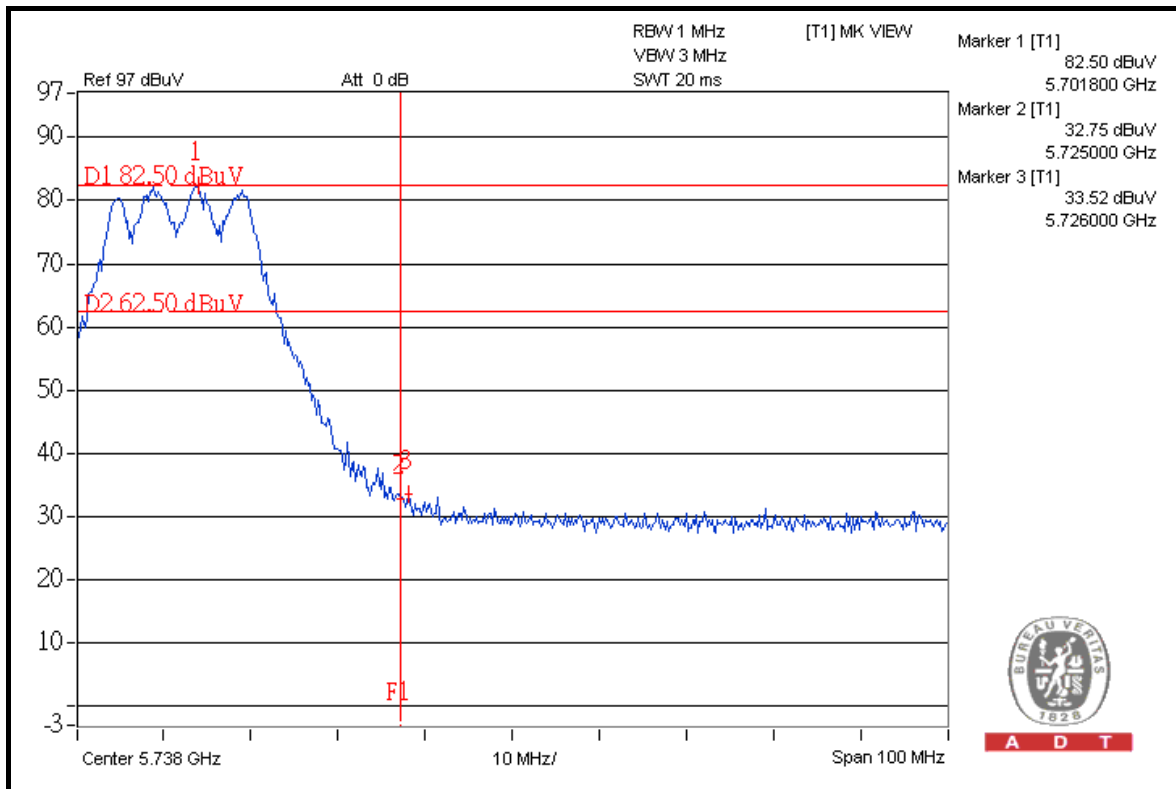
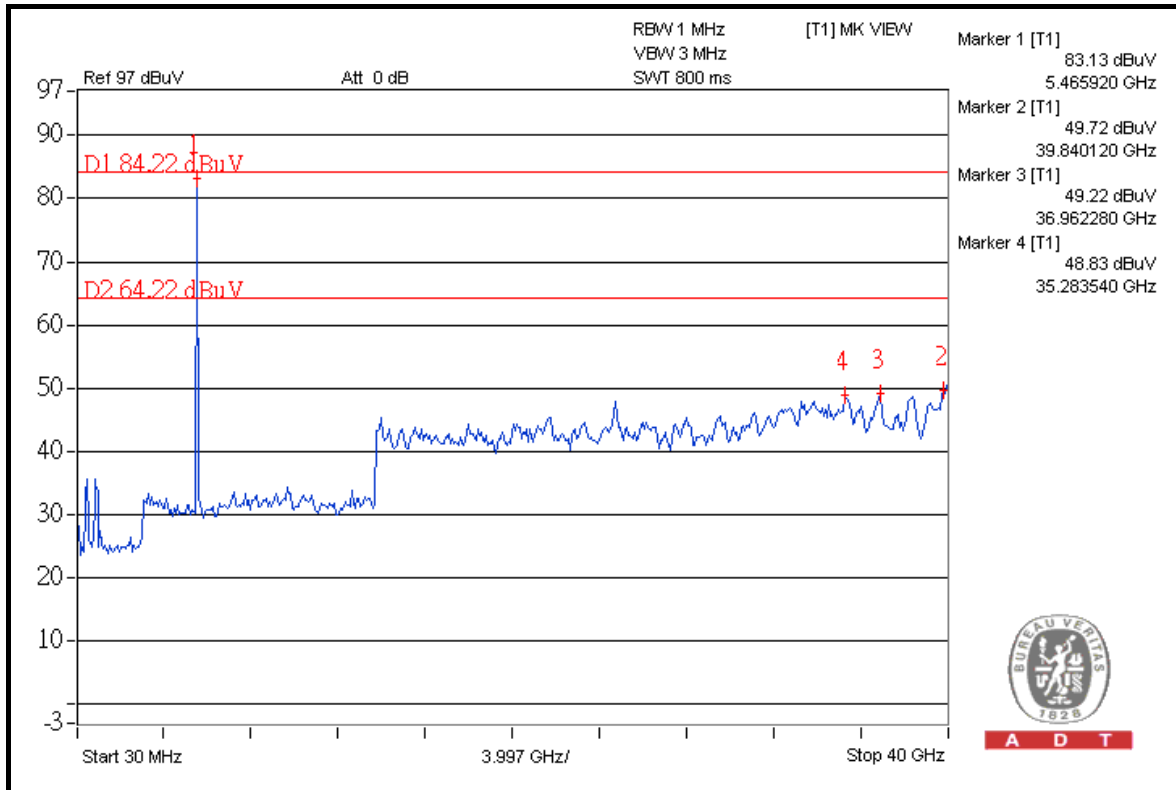
A D T



A D T

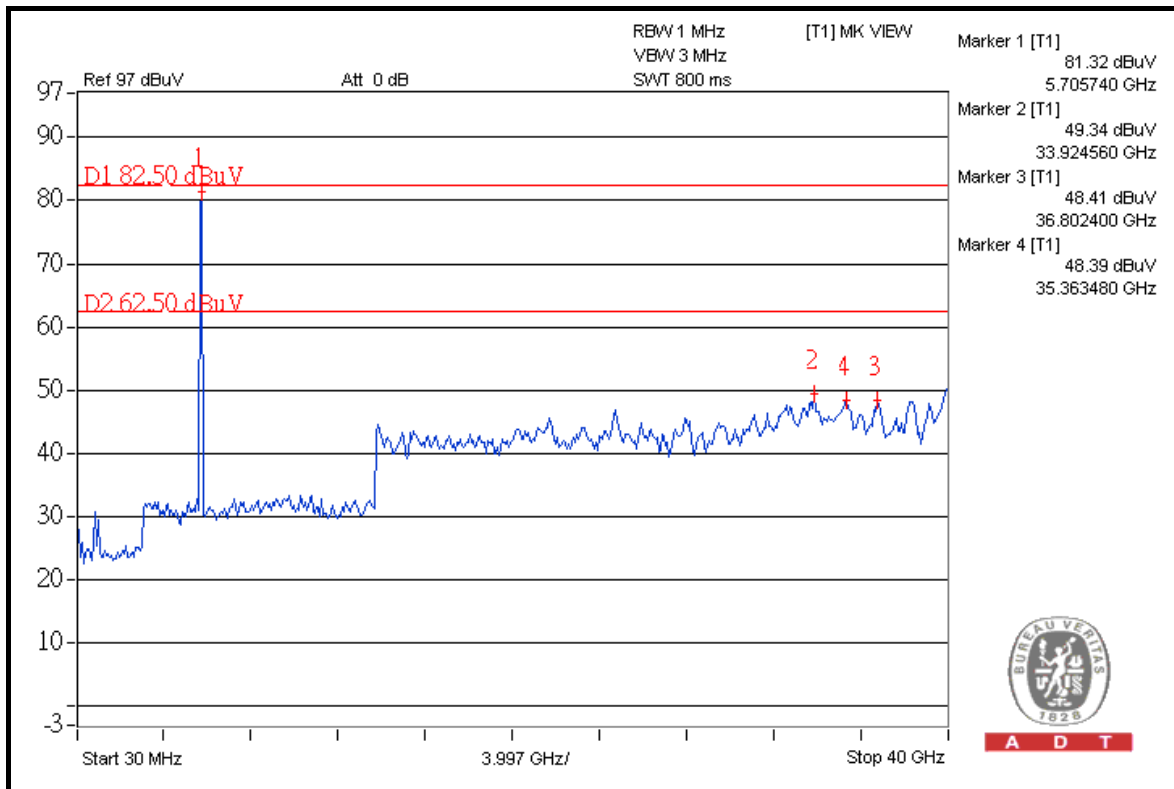
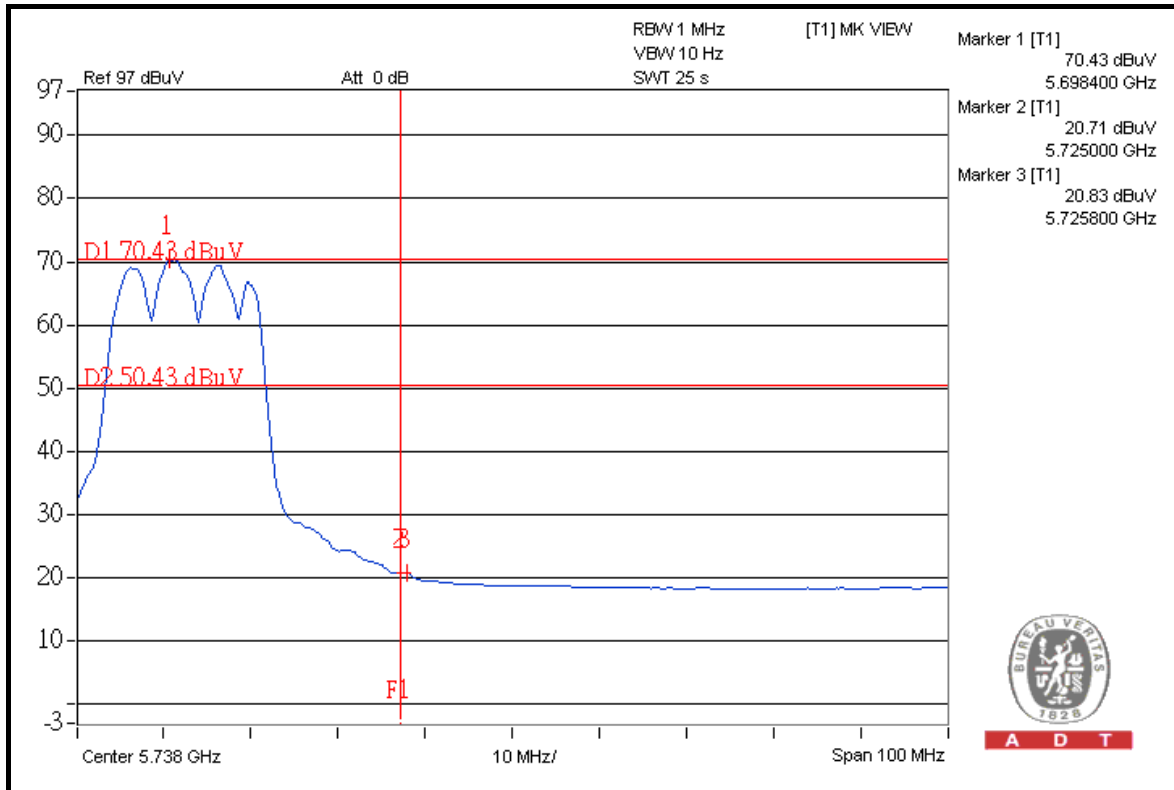


A D T





A D T



**FOR 5260-5320MHz BAND:**

**802.11n (20MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	112.7	52.27	60.43	74.00
5260.00 (AV)	100.5	52.94	47.56	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

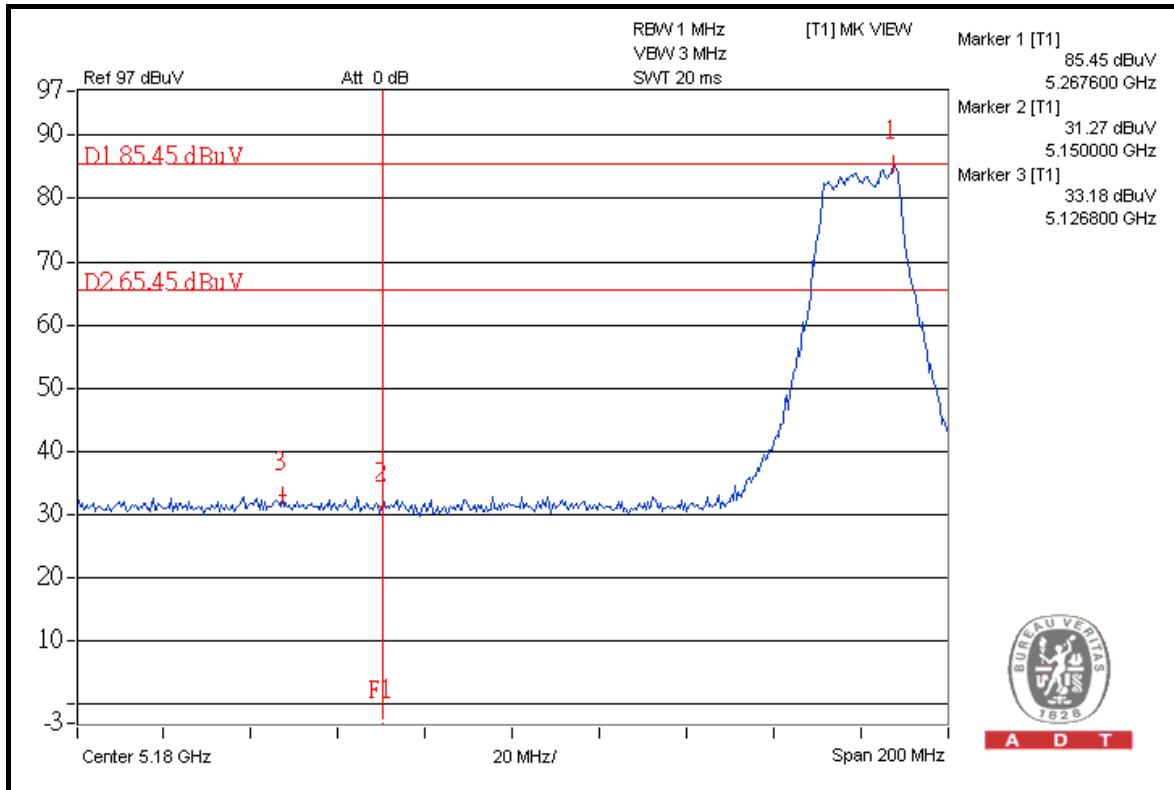
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	112.0	45.30	66.70	74.00
5320.00 (AV)	99.6	49.98	49.62	54.00

**NOTE:**

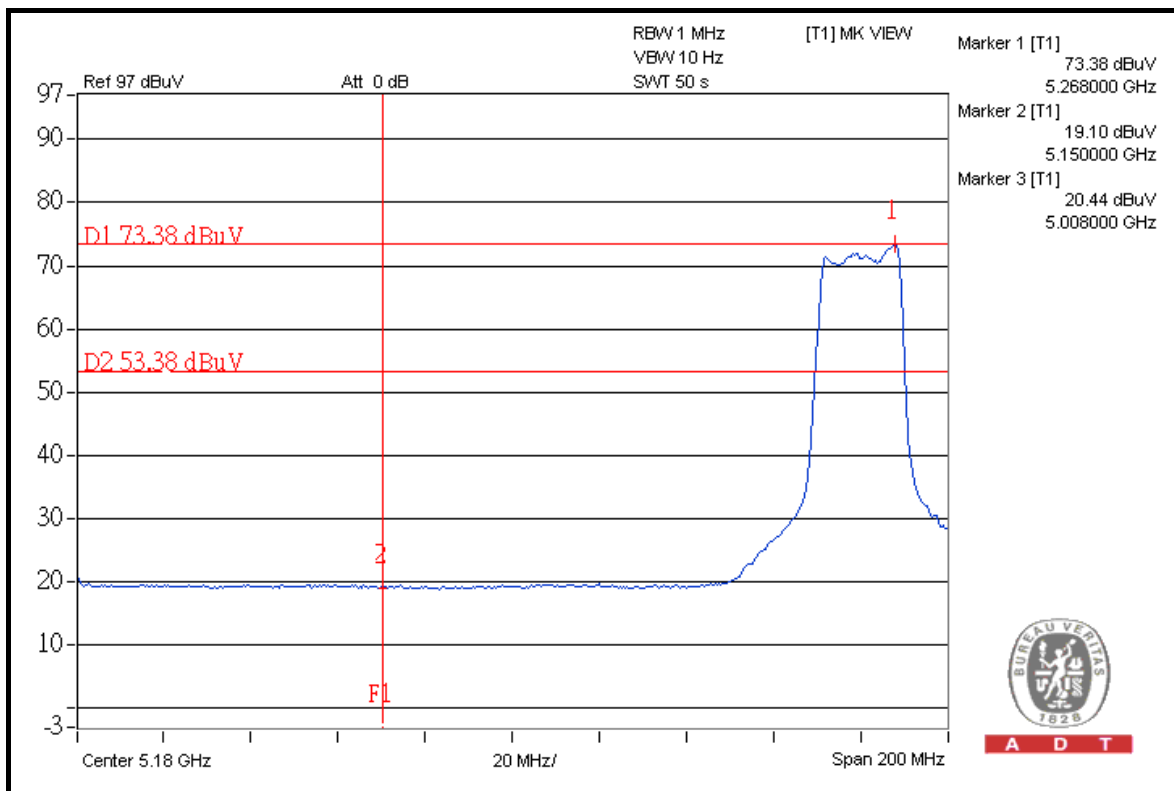
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



A D T

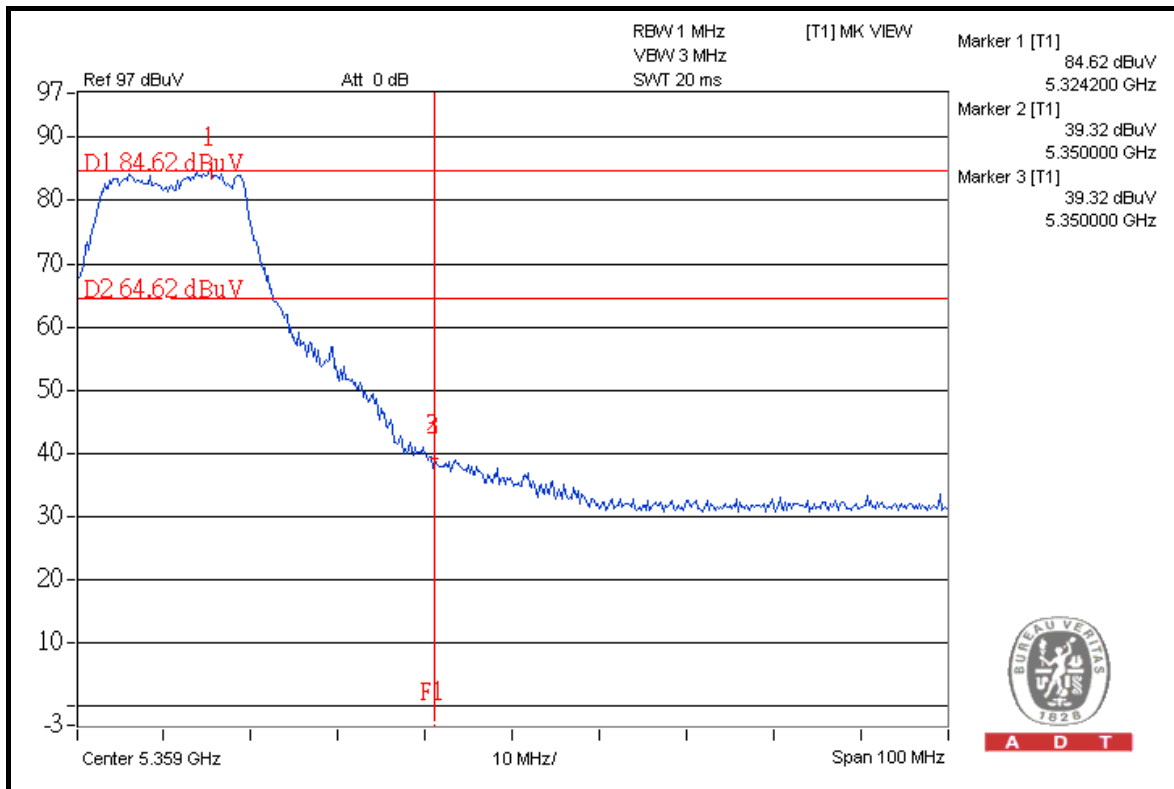
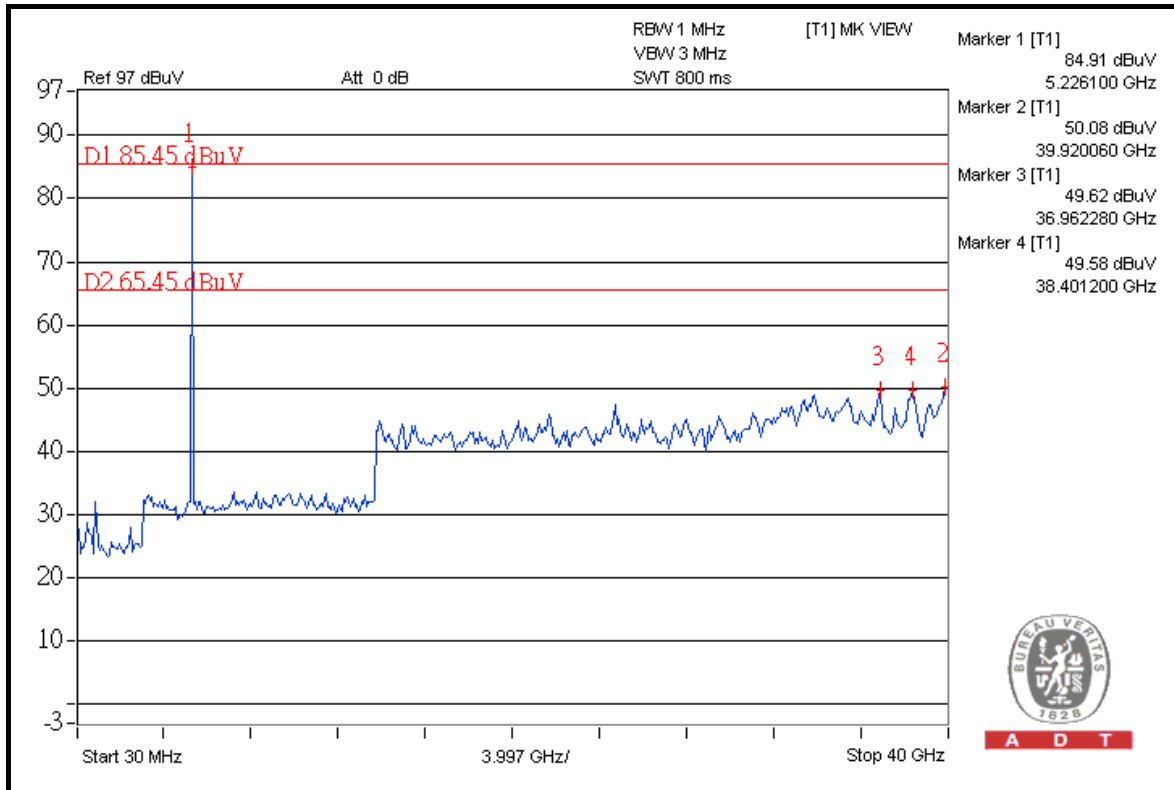


A D T



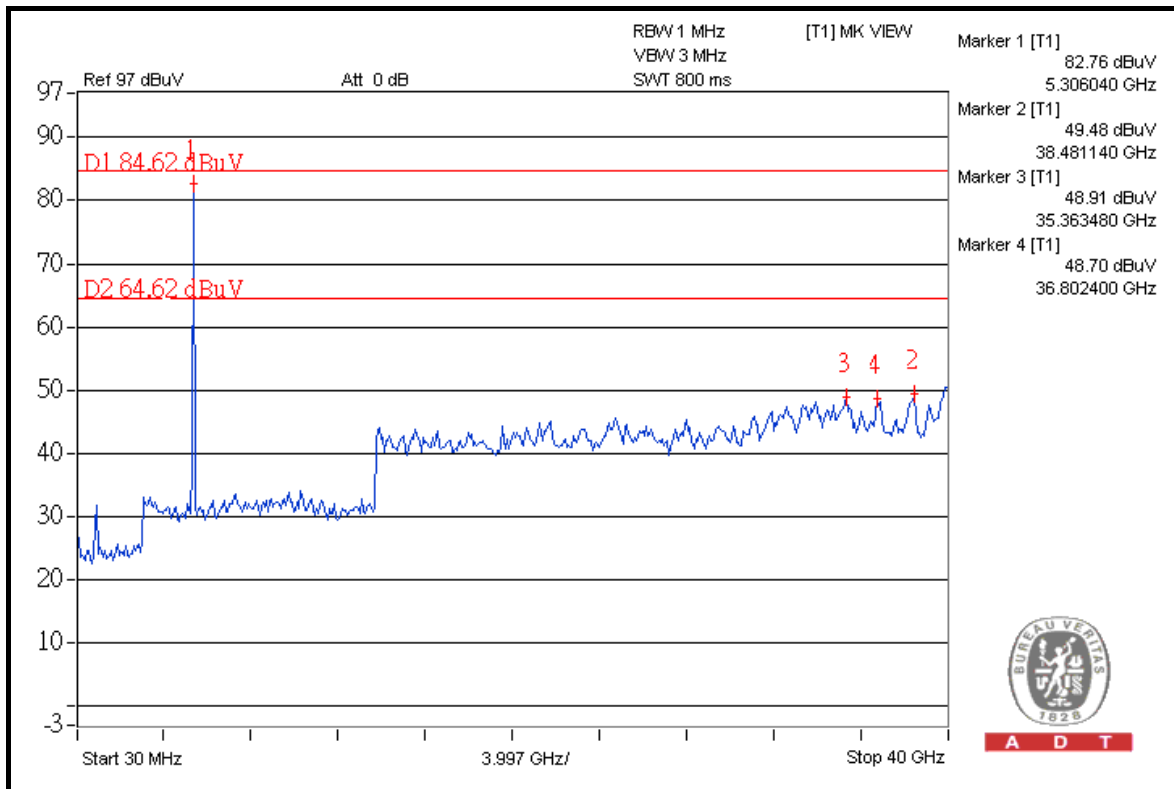
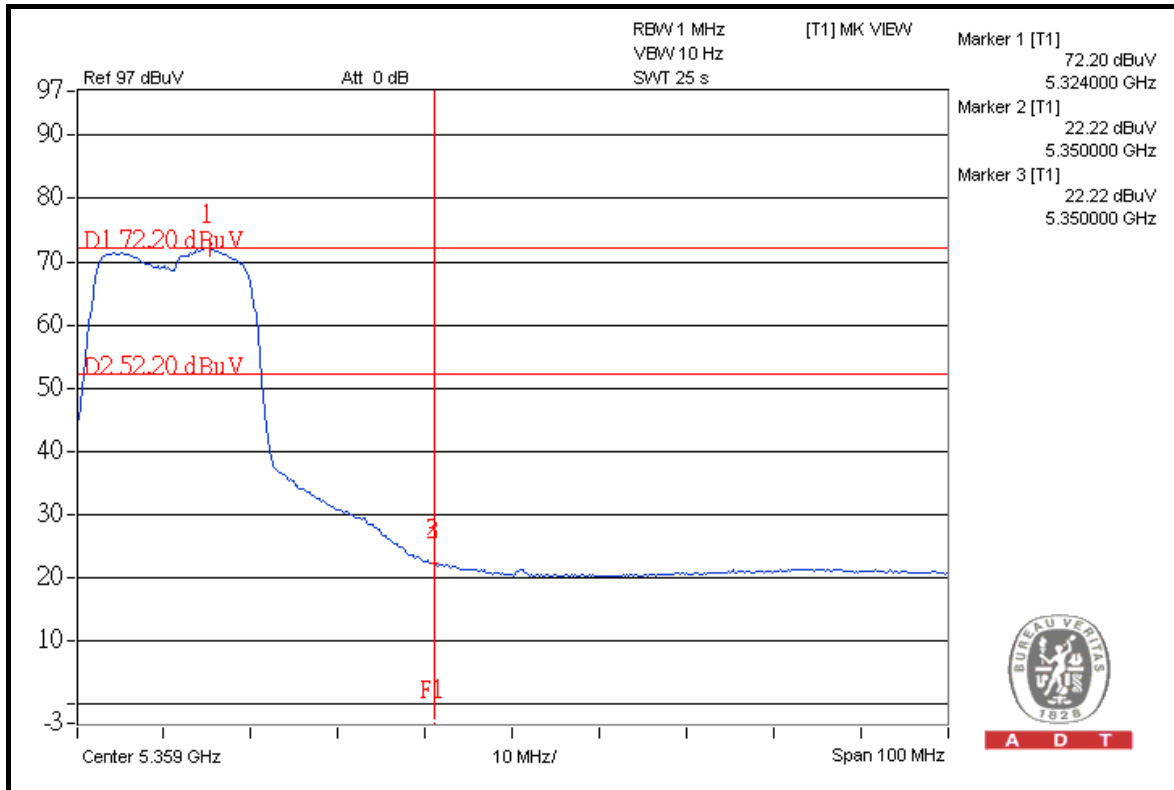


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (20MHz)**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	111.5	51.13	60.37	74.00
5500.00 (AV)	99.2	50.93	48.27	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	111.5	51.76	59.74	68.30

**5700MHz**

**ABOVE 5725 MHz**

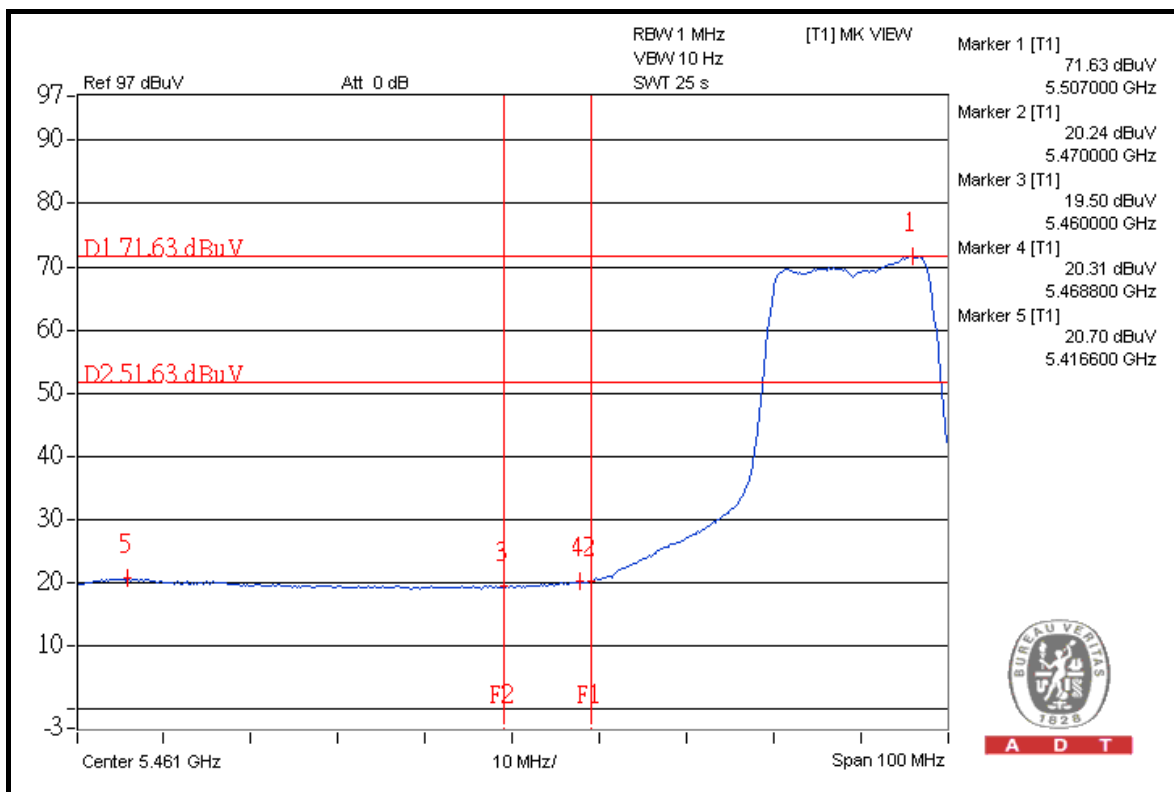
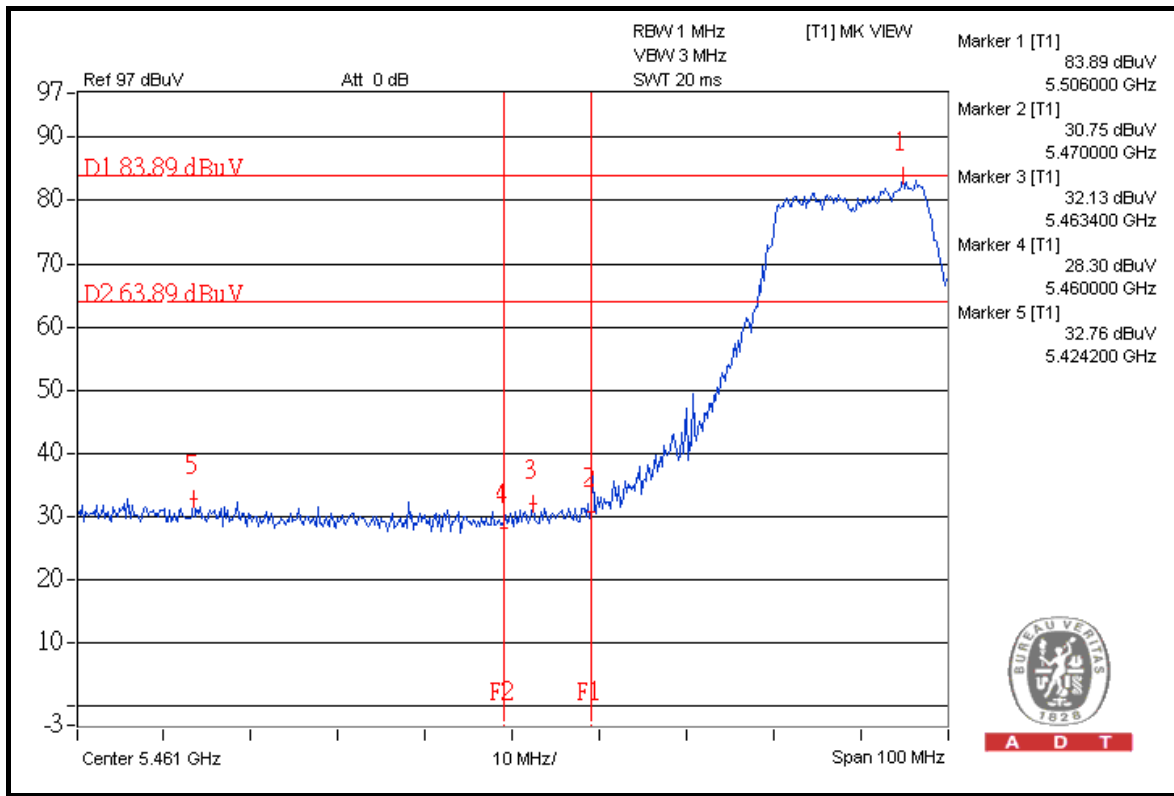
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	111.2	44.91	66.29	68.30

**NOTE:**

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

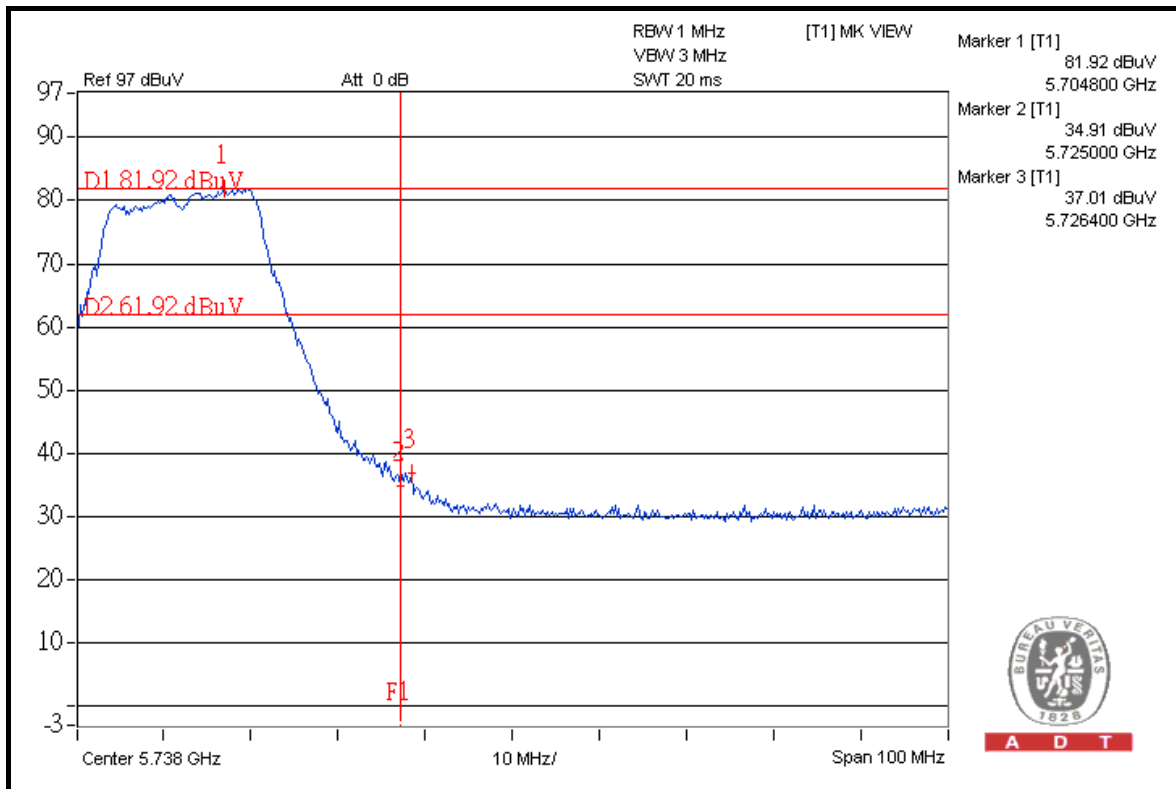
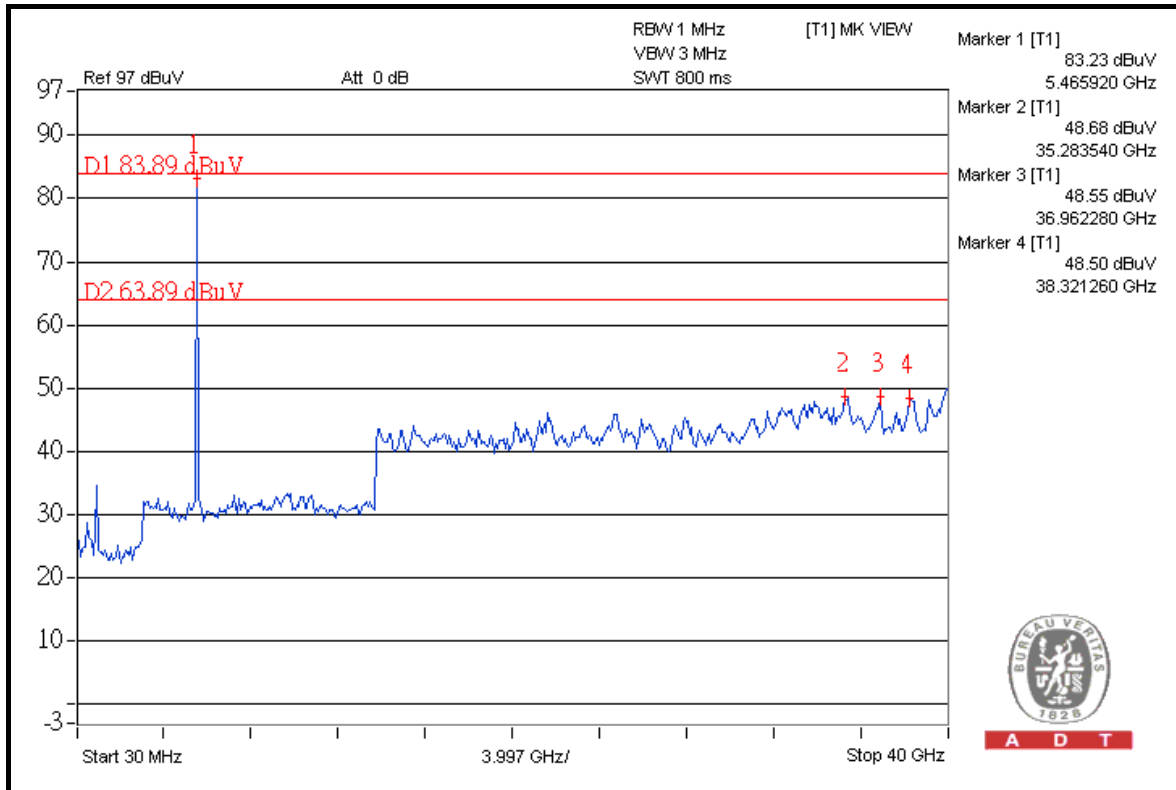


A D T



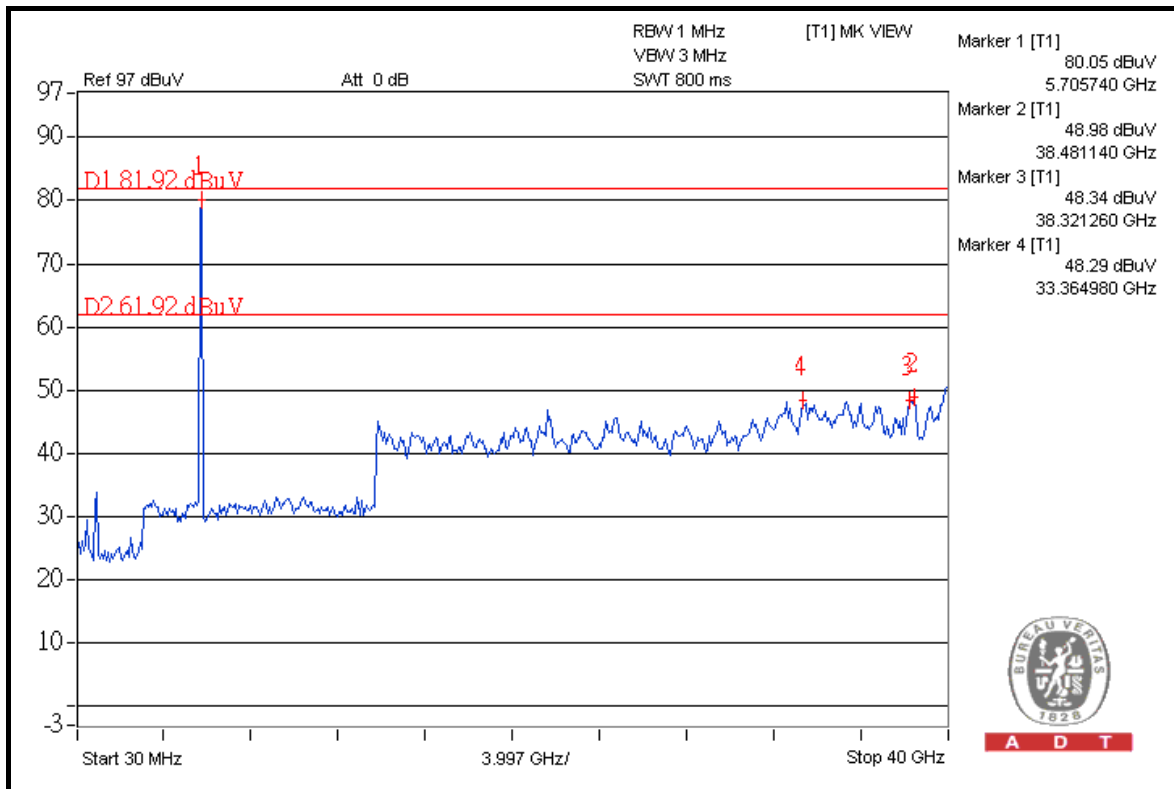
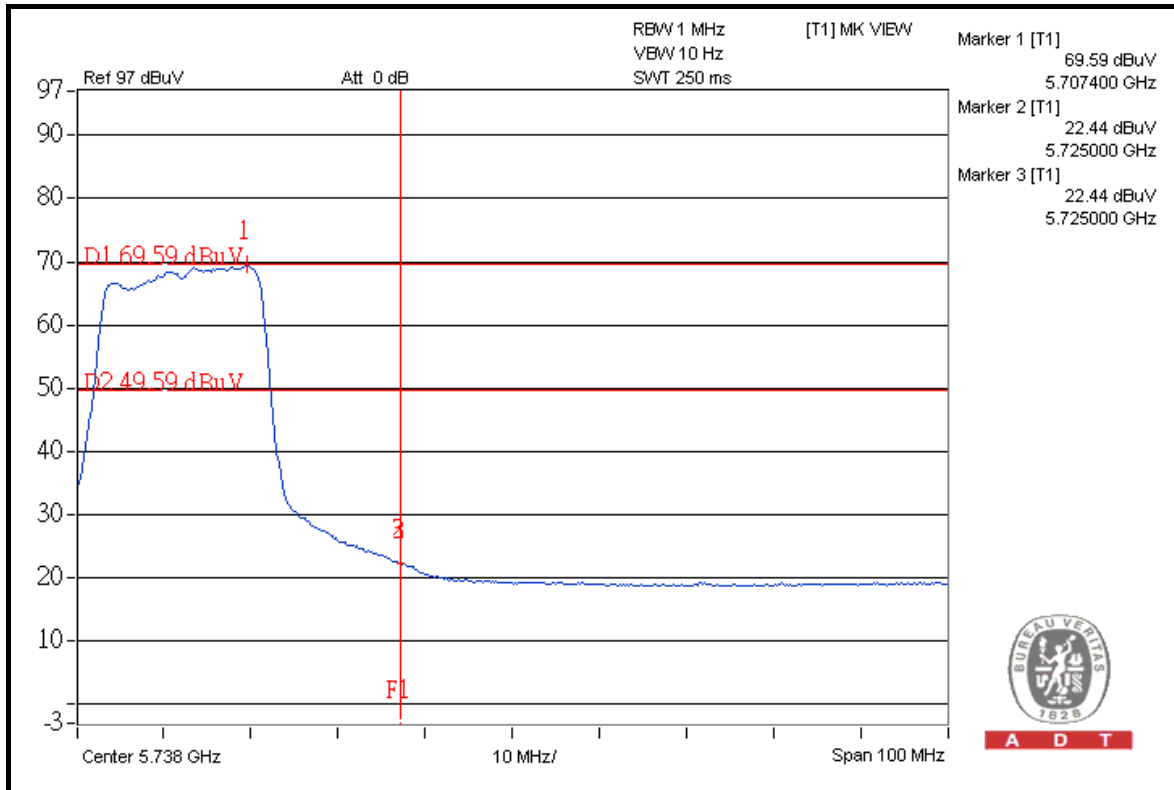


A D T





A D T



**FOR 5260-5320MHz BAND:**

**802.11n (40MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5270.00 (PK)	109.1	47.40	61.70	74.00
5270.00 (AV)	96.8	49.15	47.65	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

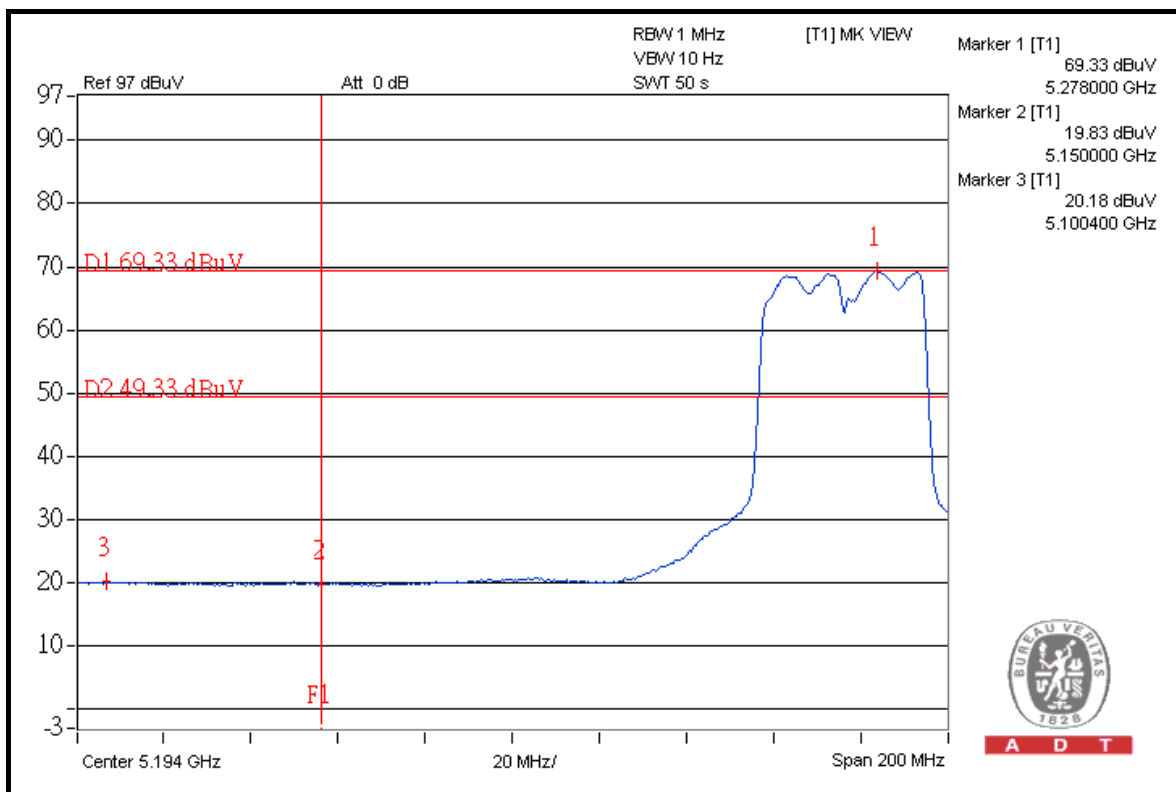
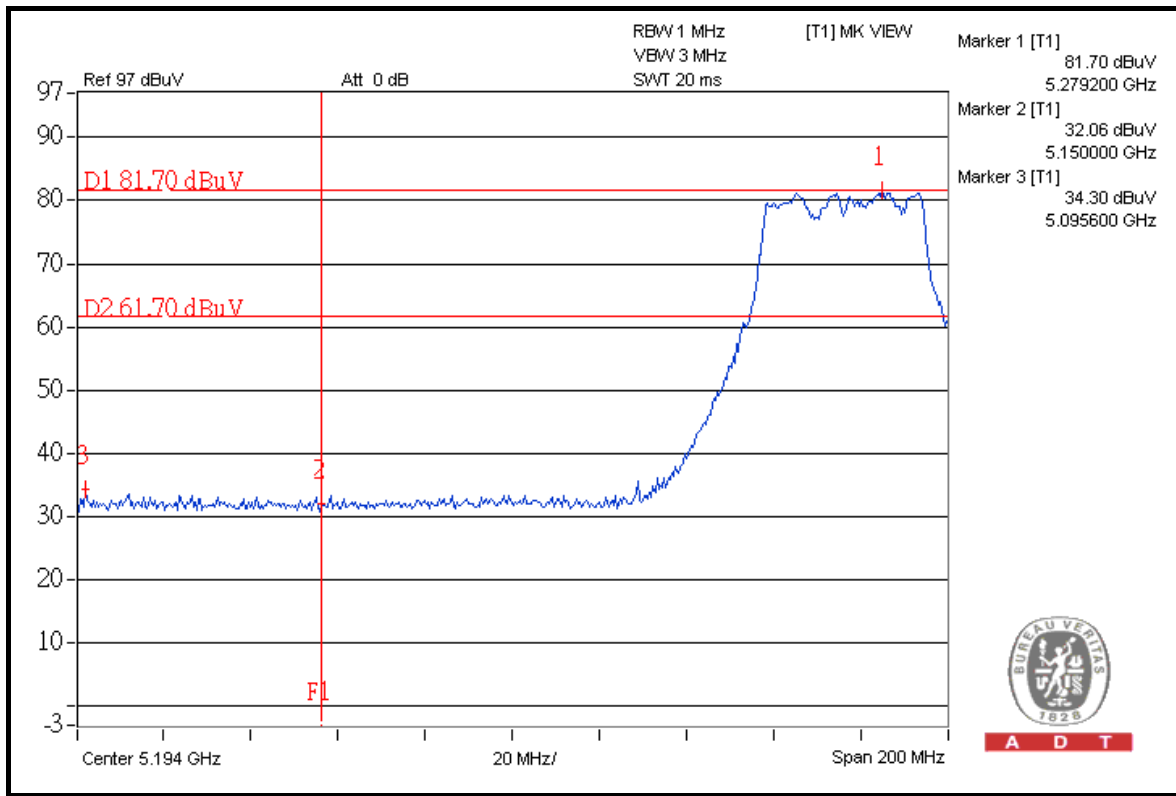
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5310.00 (PK)	107.0	35.19	71.81	74.00
5310.00 (AV)	94.7	43.45	51.25	54.00

**NOTE:**

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



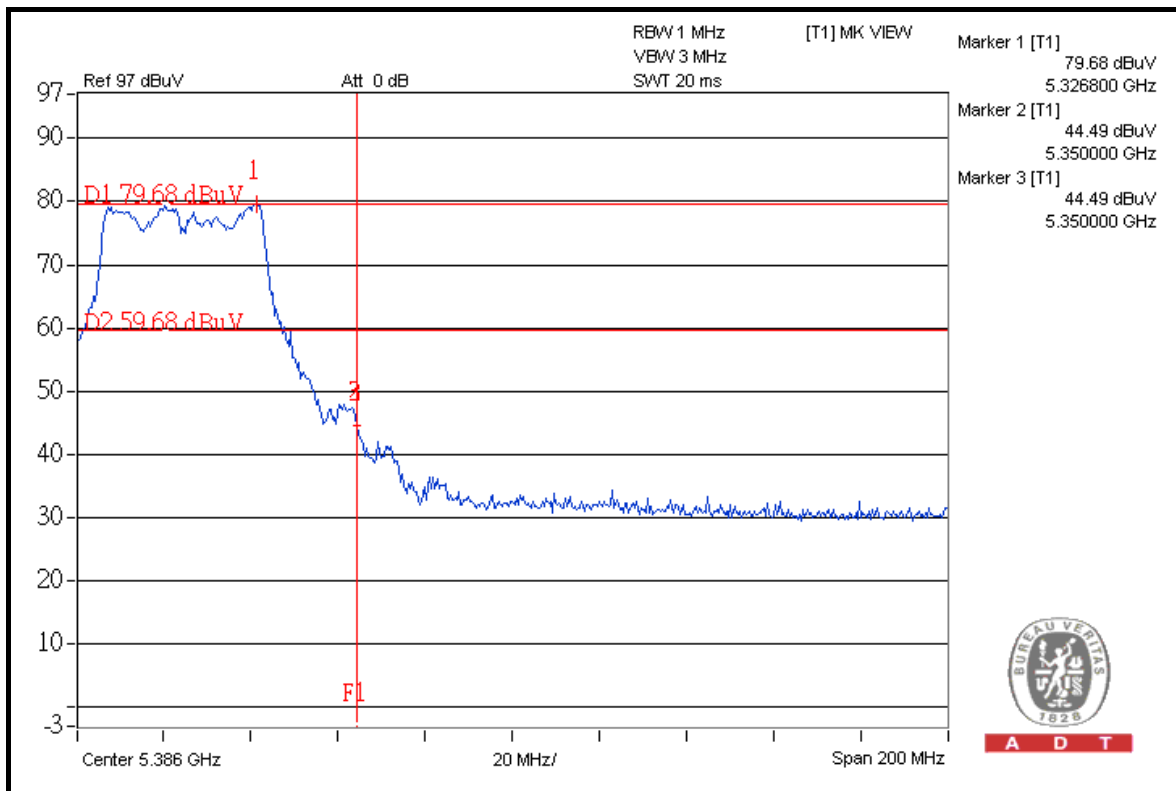
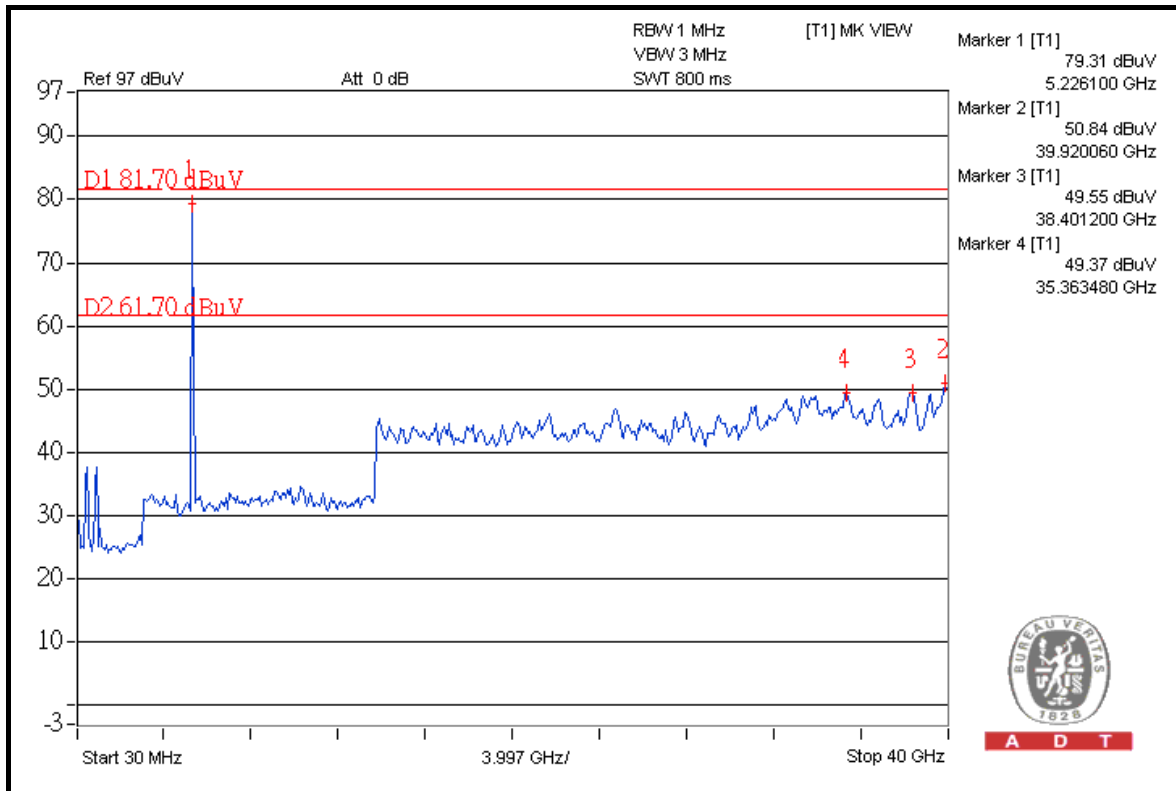
A D T





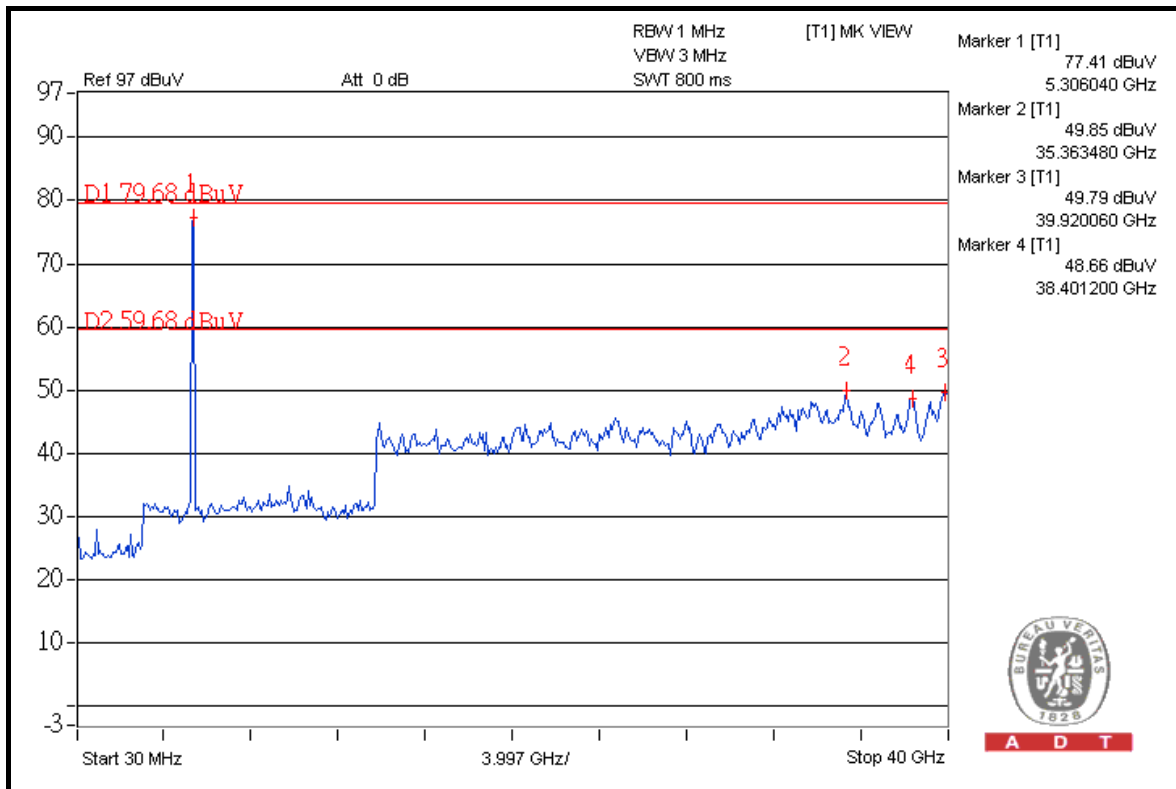
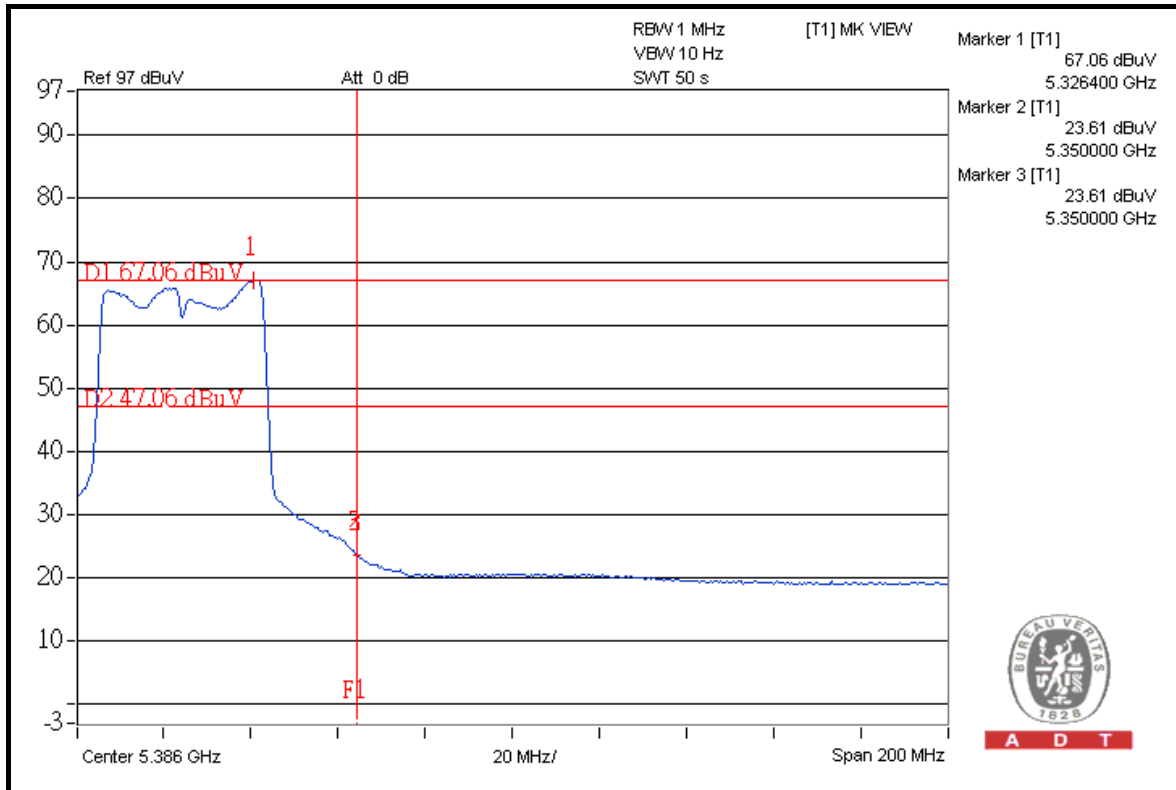


A D T





A D T



**FOR 5500-5700MHz BAND:**

**802.11n (40MHz)**

**5510MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	105.3	43.53	61.77	74.00
5510.00 (AV)	93.1	45.07	48.03	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

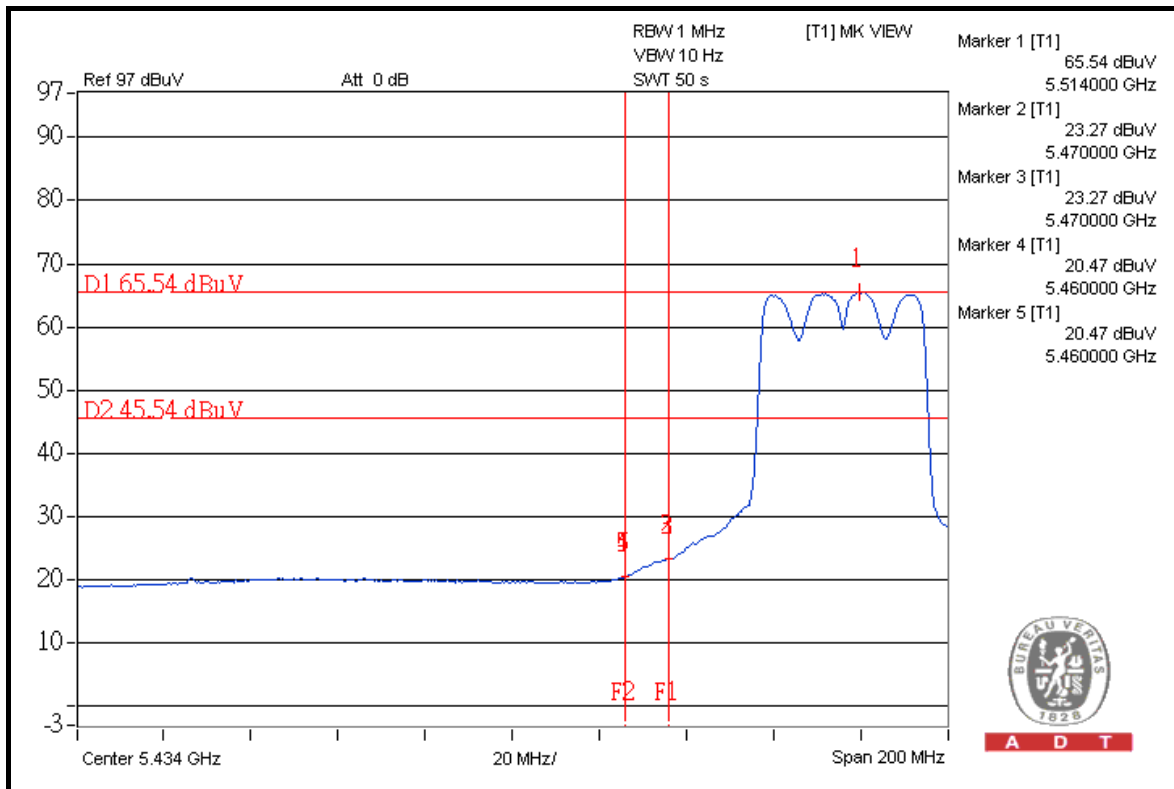
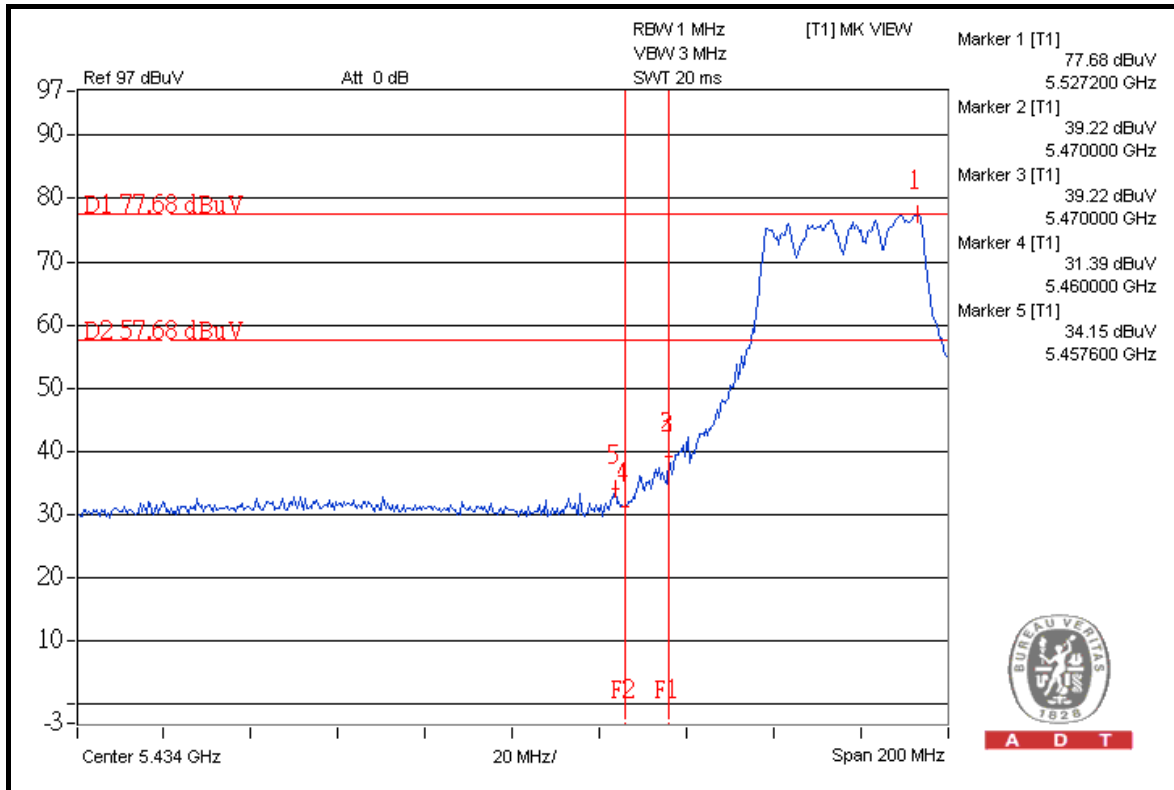
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	105.3	38.46	66.84	68.30

**NOTE:**

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

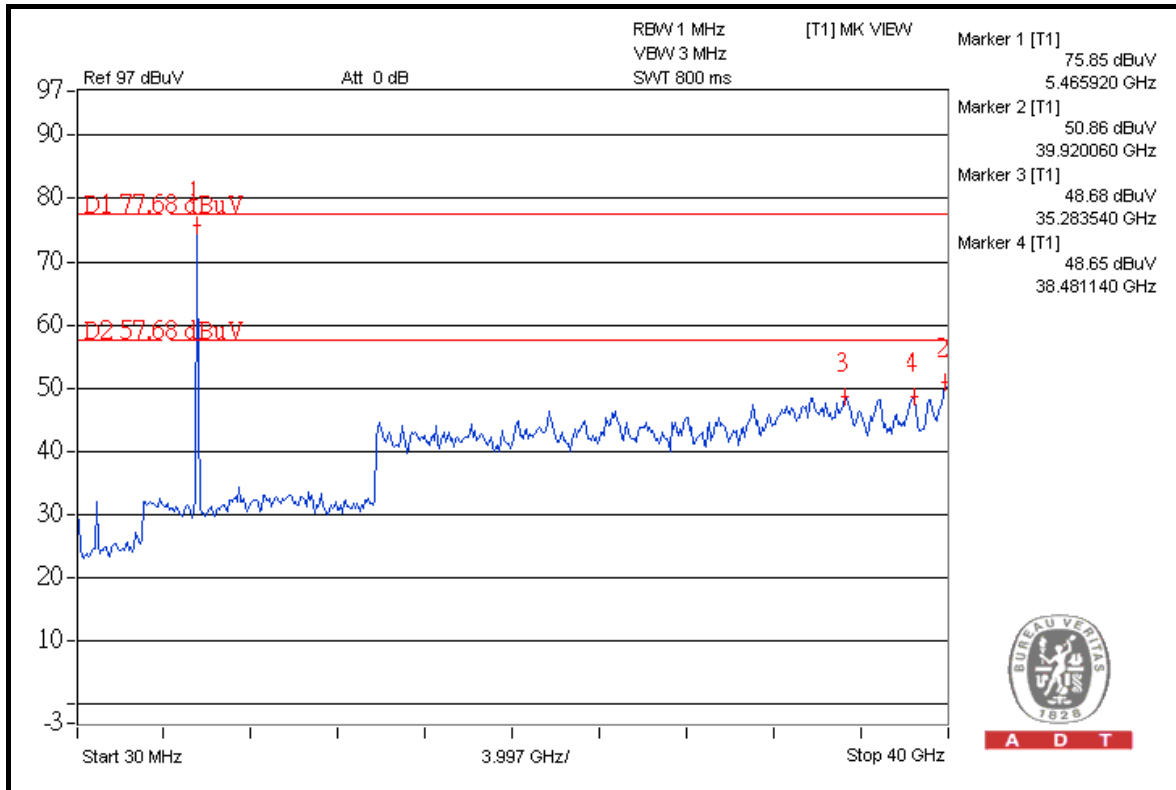


A D T





A D T



A D T

#### 4.7.9 TEST RESULTS (C2)

For signals in the restricted bands above and below the 5.26 to 5.32GHz, 5.50 to 5.70GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

#### FOR 5260-5320MHz BAND: 802.11a

##### RESTRICT BAND (4500 ~ 5150 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	113.3	53.18	60.12	74.00
5260.00 (AV)	101.1	53.66	47.44	54.00

##### RESTRICT BAND (5350 ~ 5460 MHz)

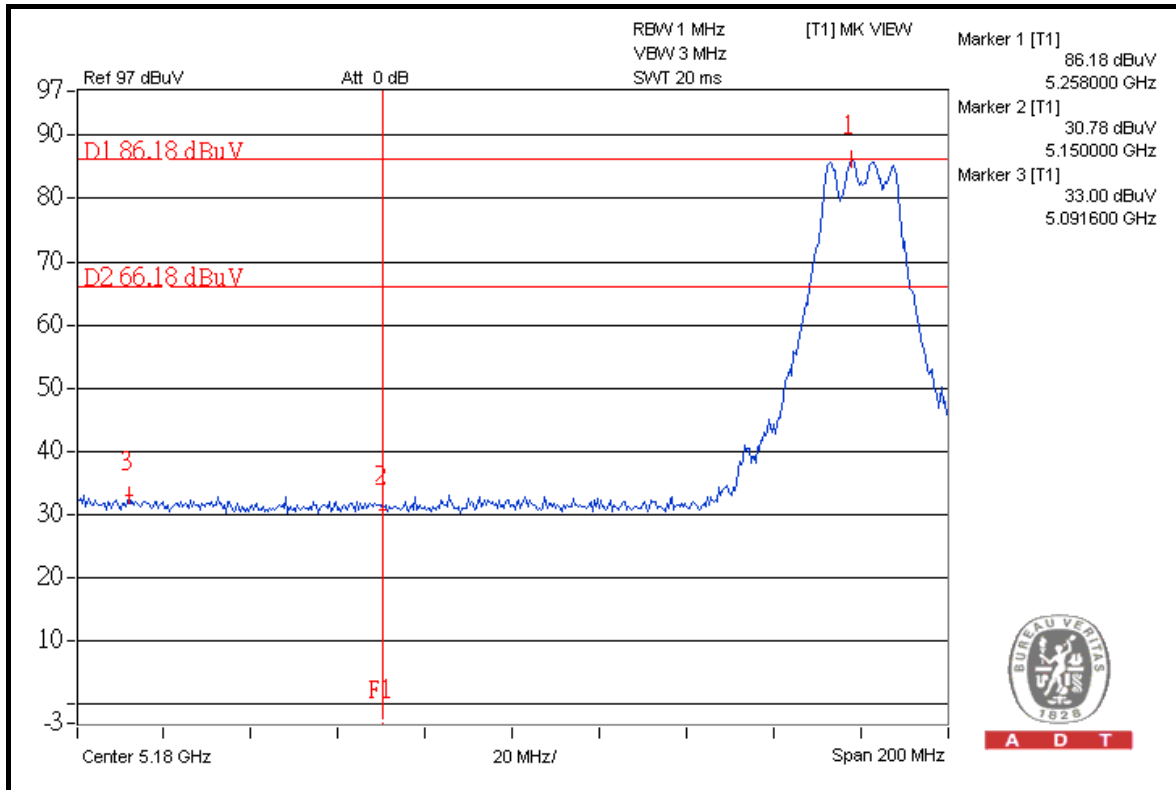
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	112.8	45.23	67.57	74.00
5320.00 (AV)	100.6	52.30	48.30	54.00

#### NOTE:

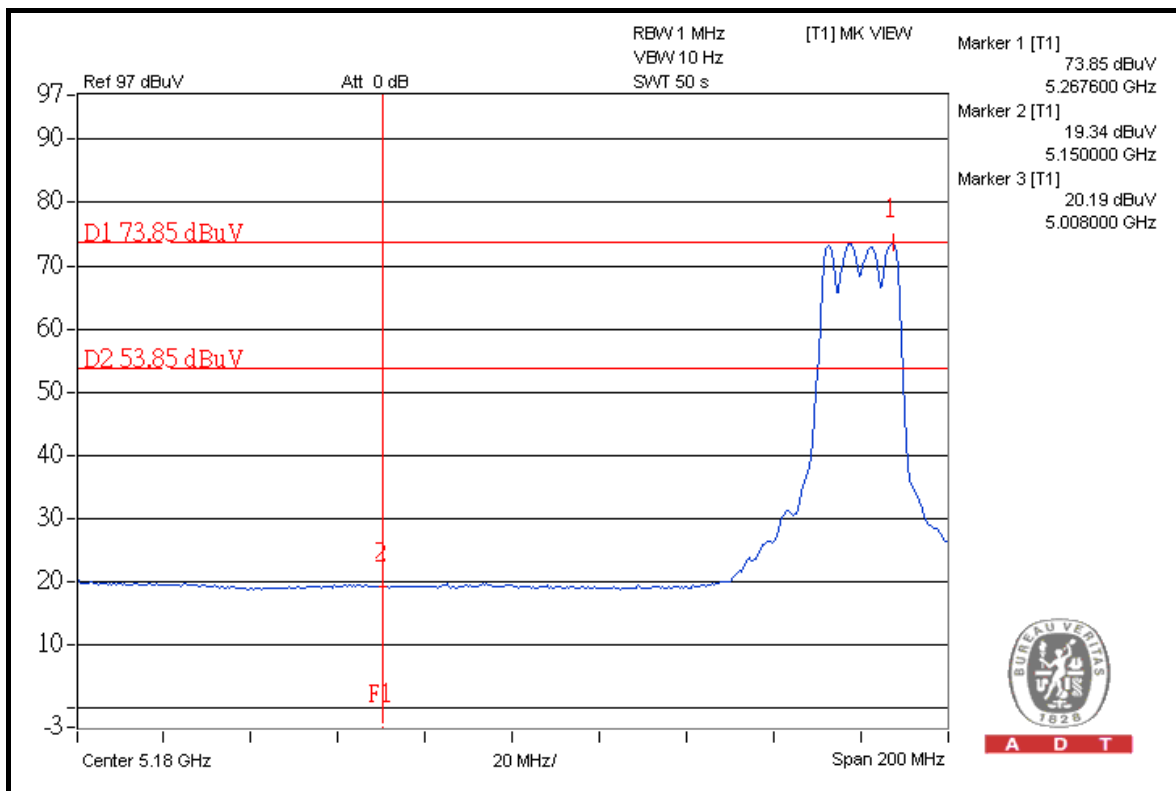
- Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
- Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



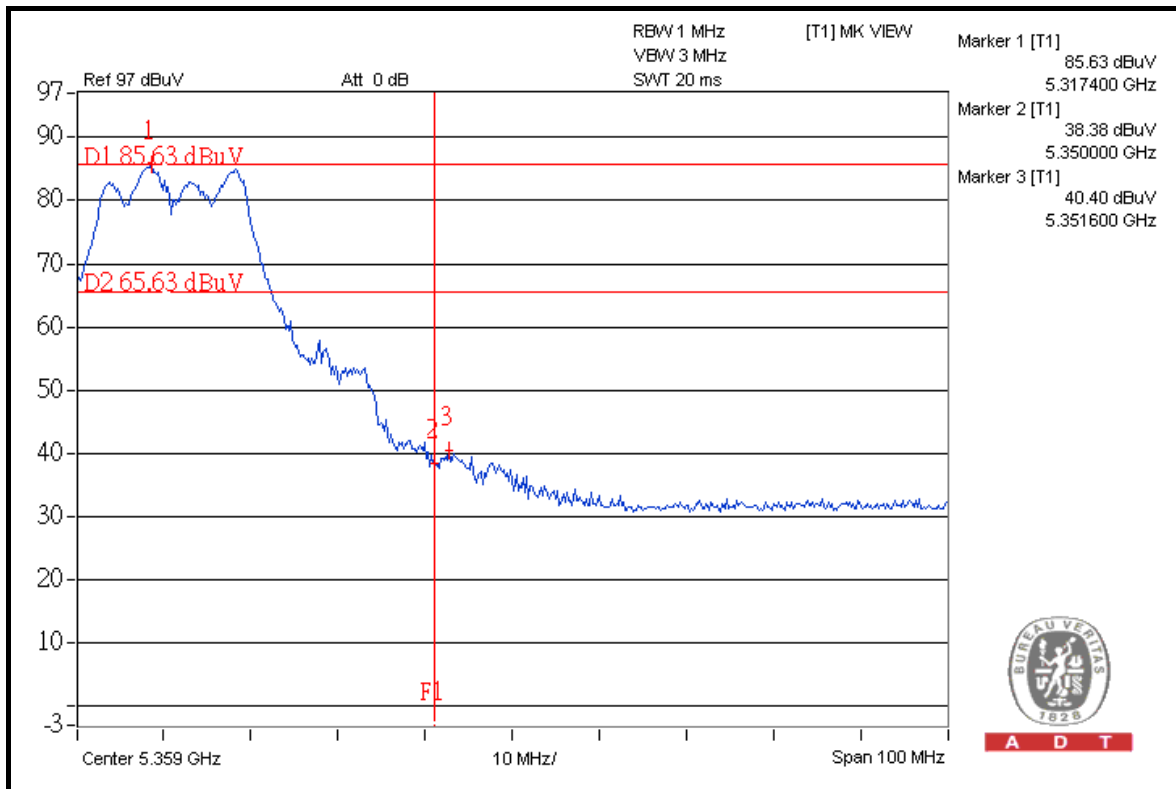
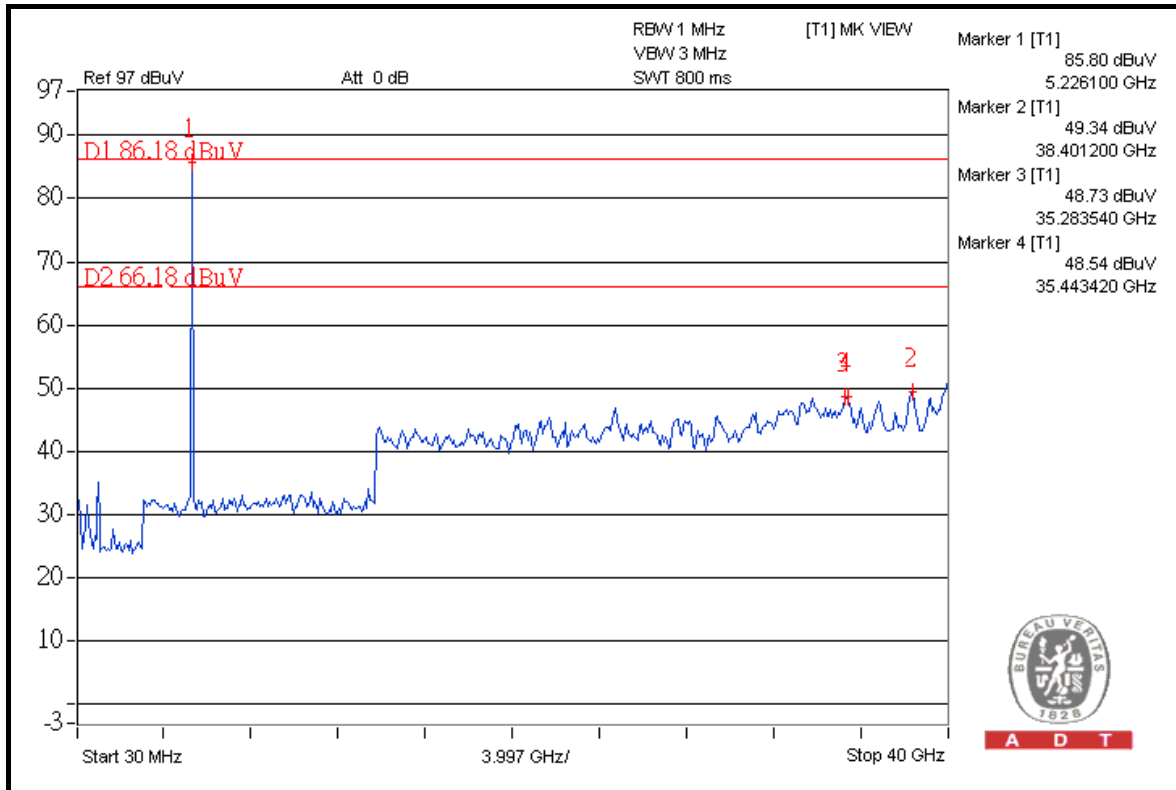
A D T



A D T



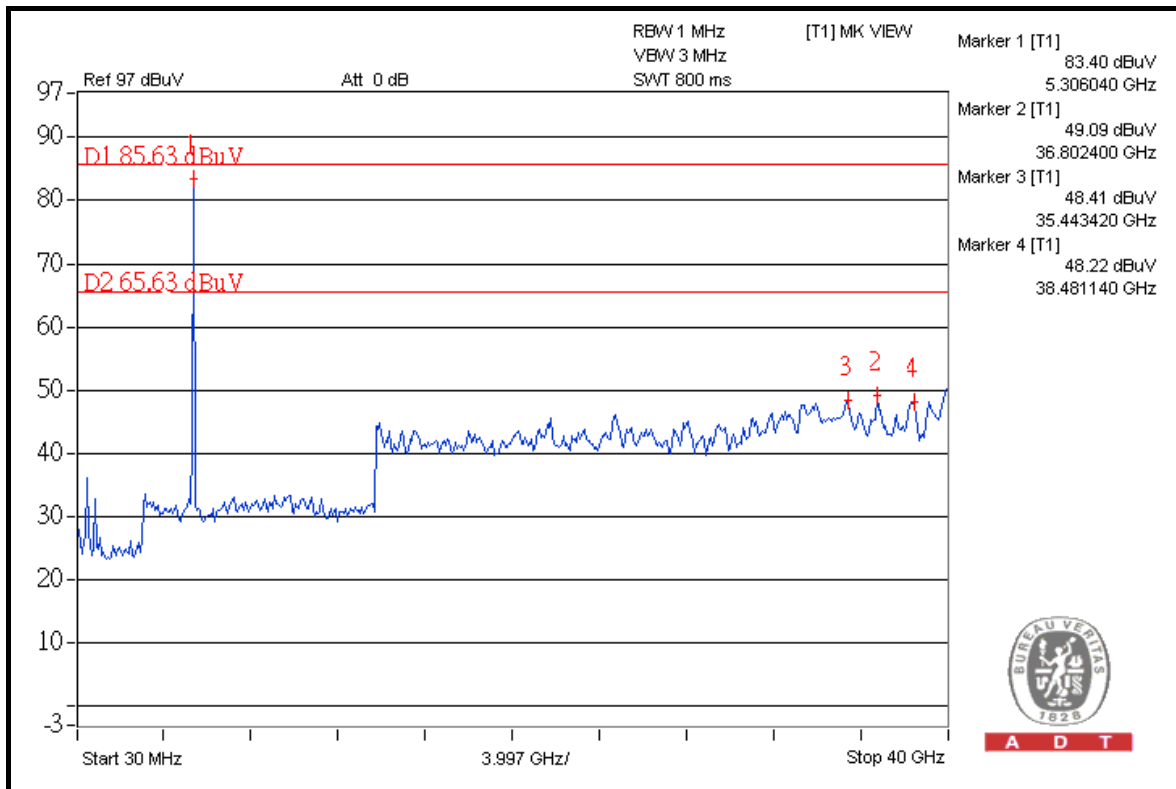
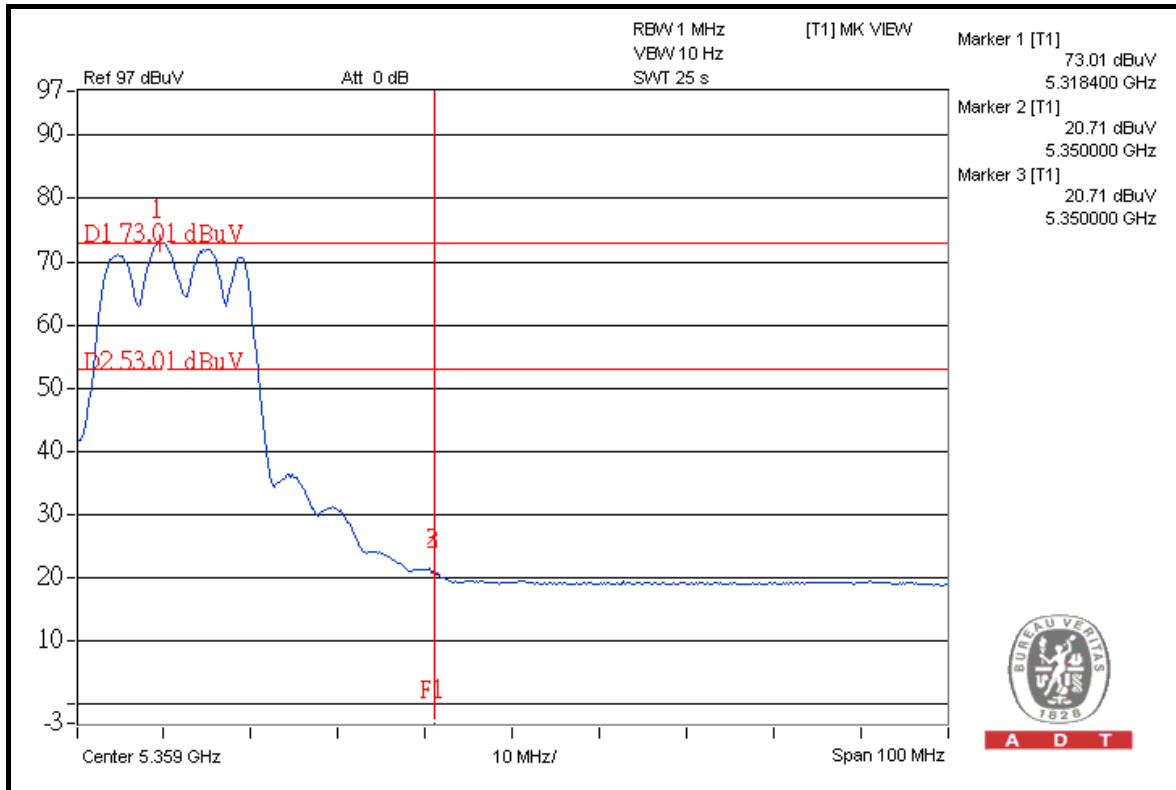
A D T







A D T



**FOR 5500-5700MHz BAND:**

**802.11a**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	112.3	51.32	60.98	74.00
5500.00 (AV)	100.2	52.88	47.32	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	112.3	51.23	61.07	68.30

**5700MHz**

**ABOVE 5725 MHz**

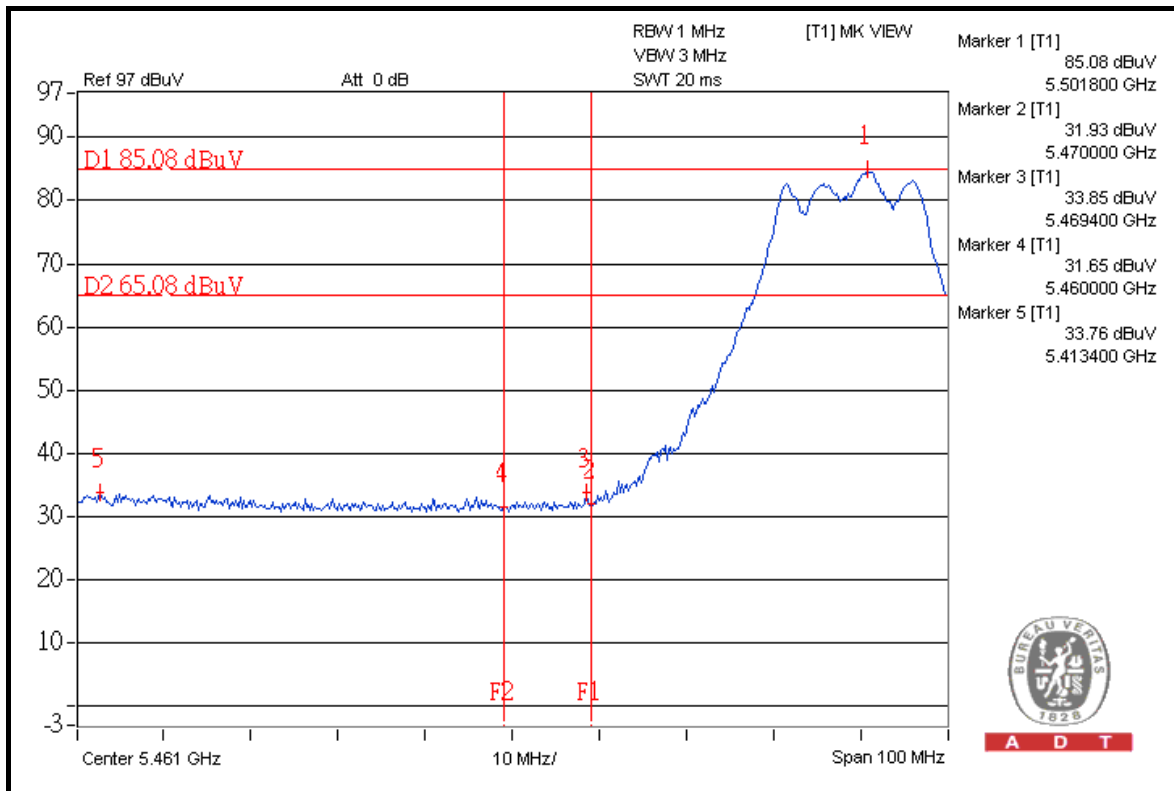
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	111.2	50.36	60.84	68.30

**NOTE:**

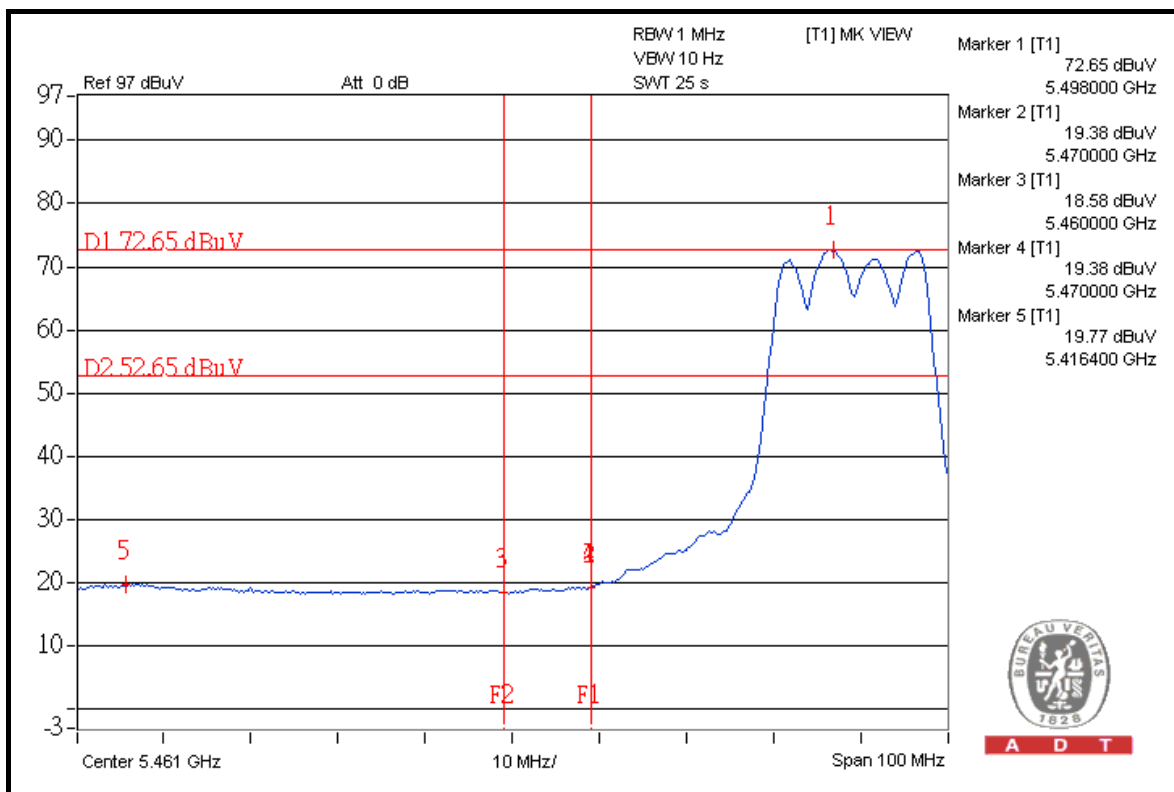
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



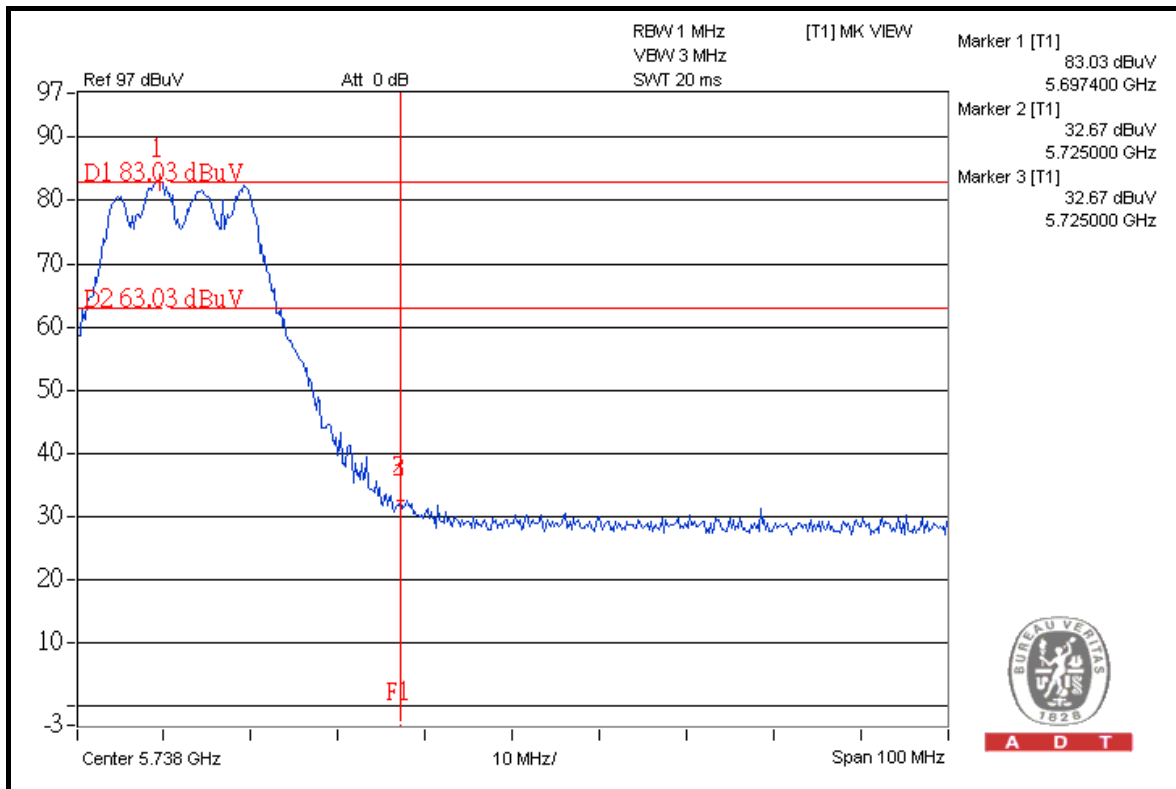
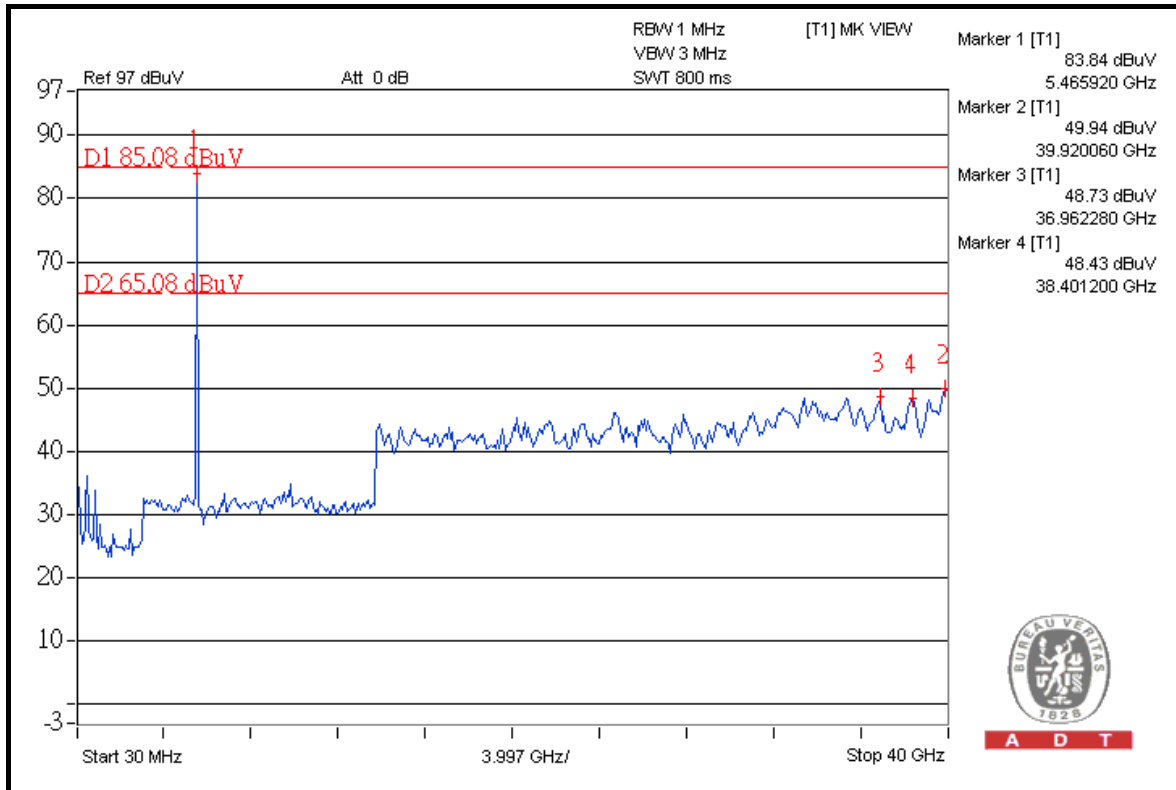
A D T



A D T

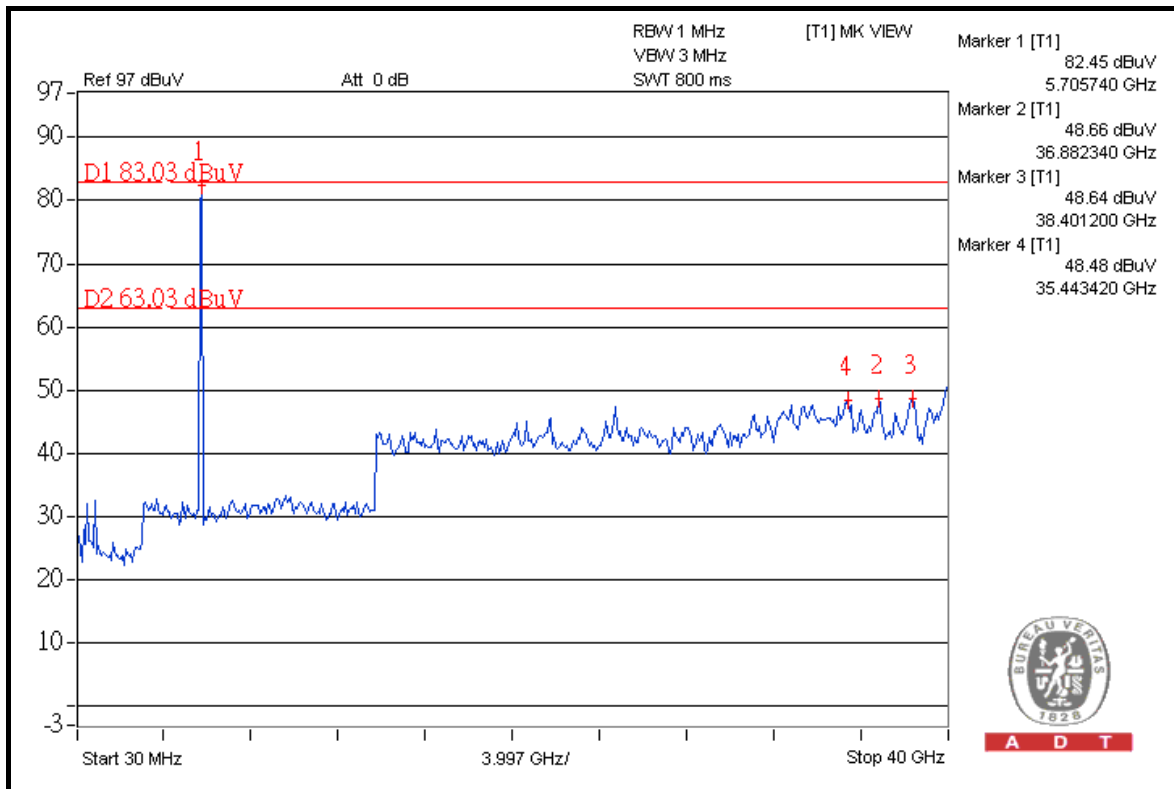
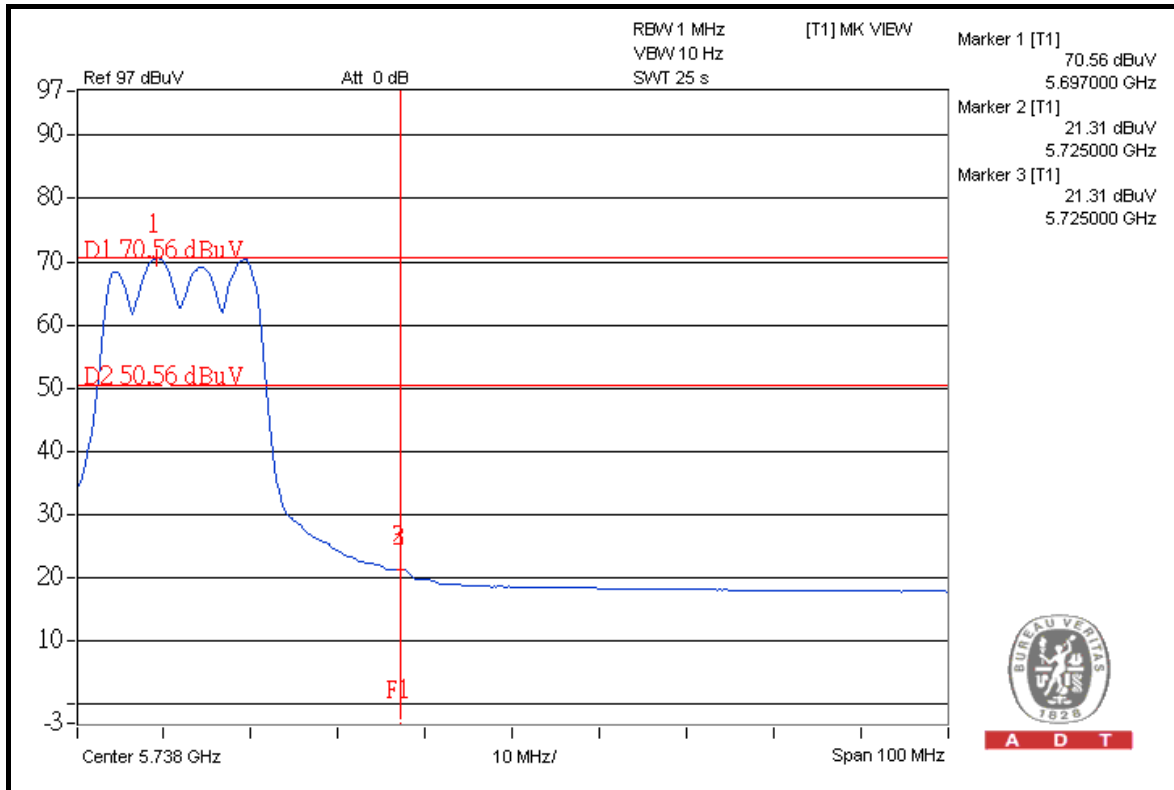


A D T





A D T



**FOR 5260-5320MHz BAND:**

**802.11n (20MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5260.00 (PK)	113.1	51.24	61.86	74.00
5260.00 (AV)	100.9	52.54	48.36	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

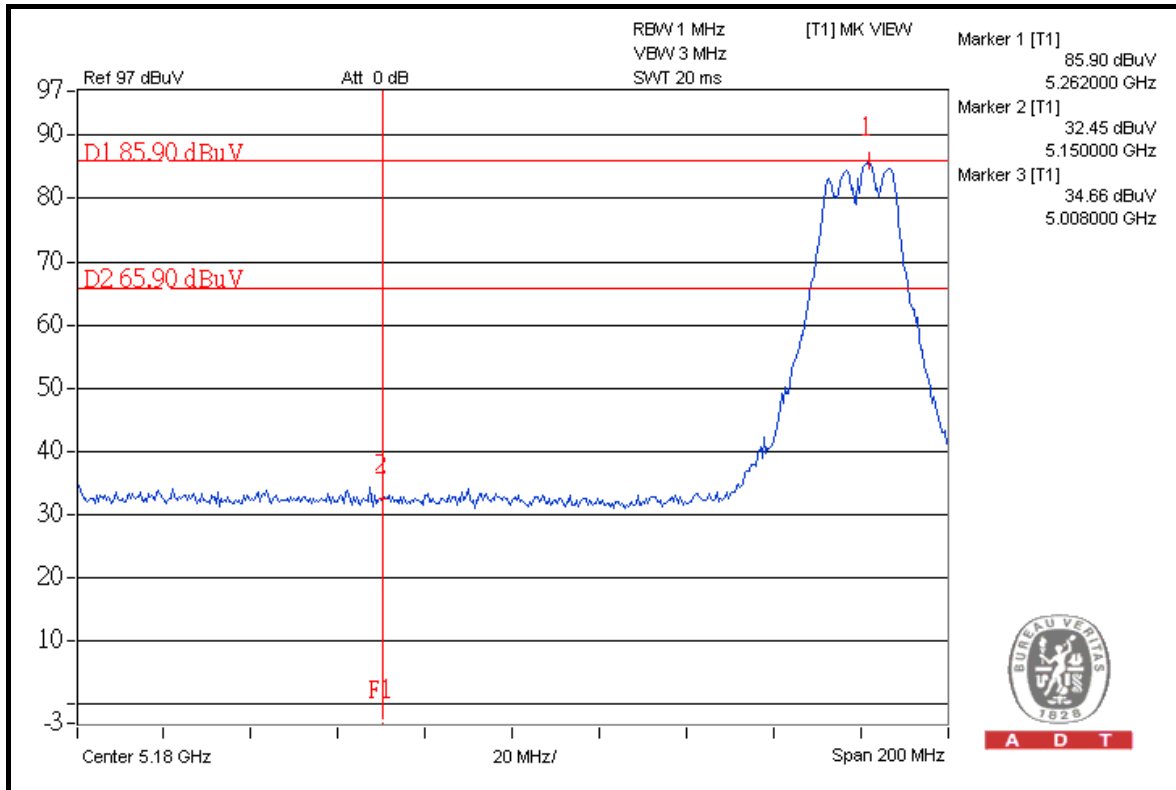
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5320.00 (PK)	112.3	45.99	66.31	74.00
5320.00 (AV)	100.0	52.11	47.89	54.00

**NOTE:**

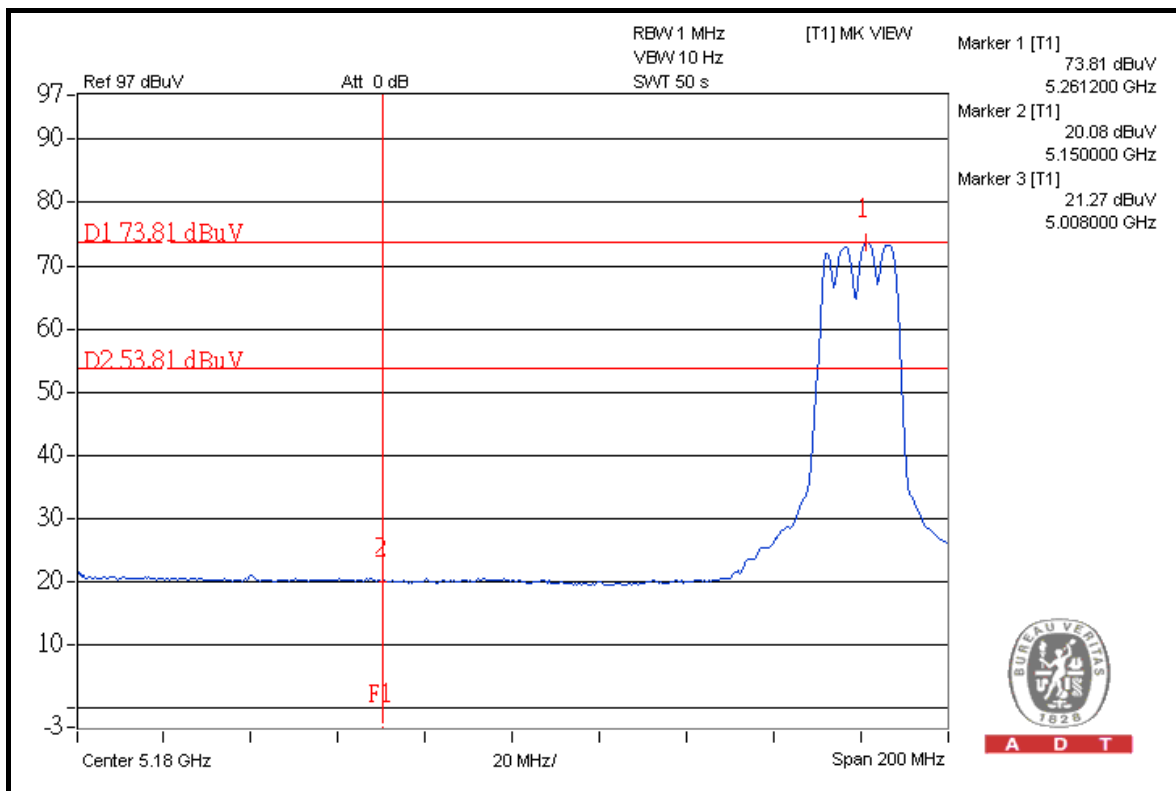
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



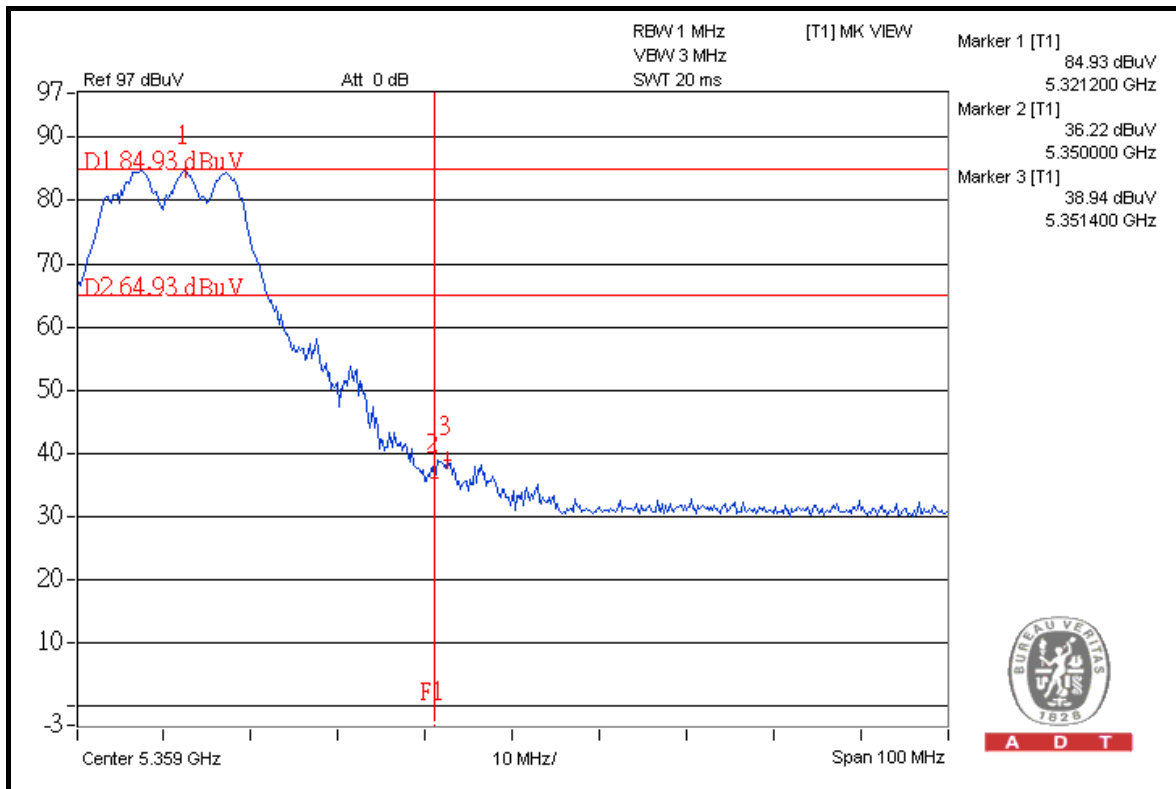
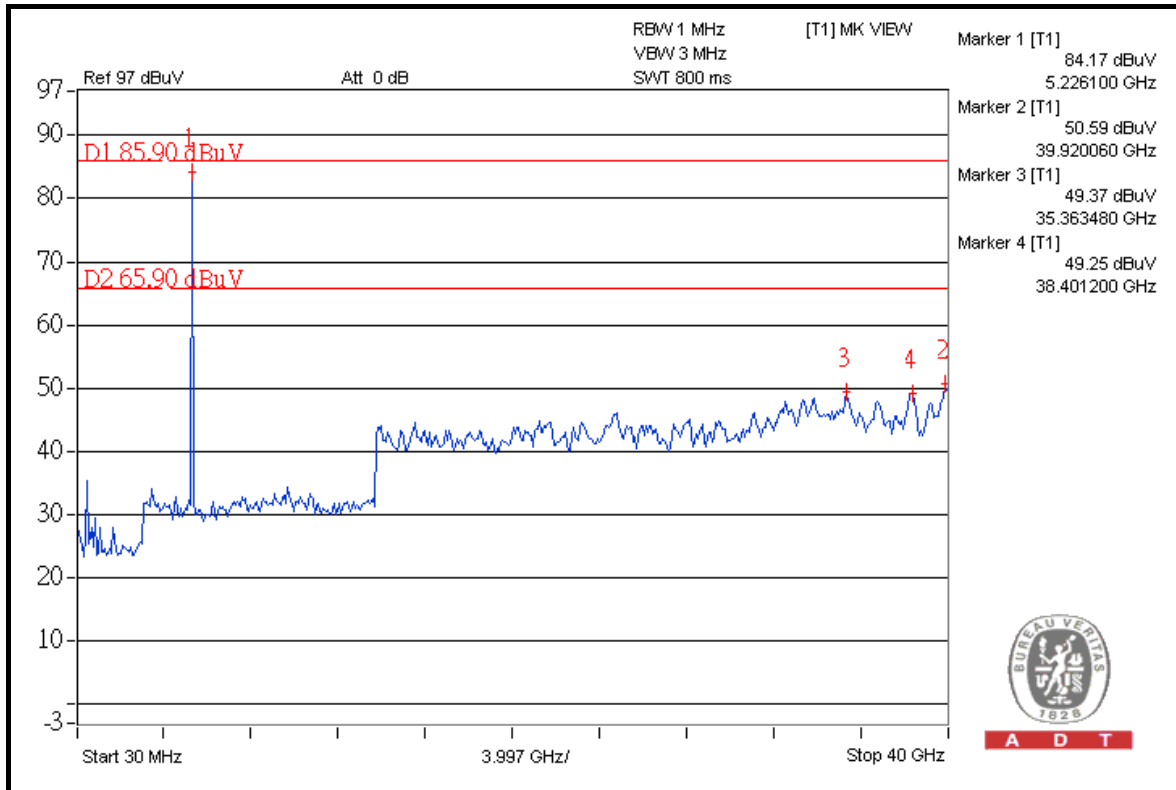
A D T



A D T



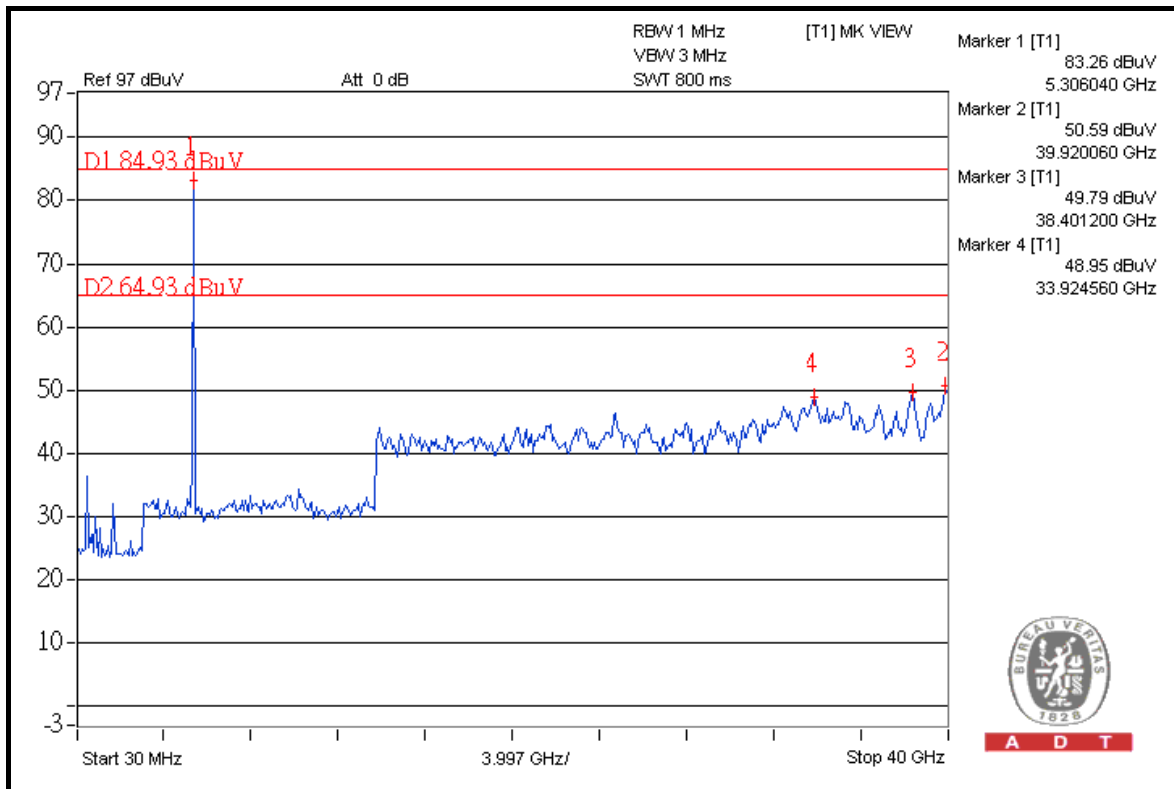
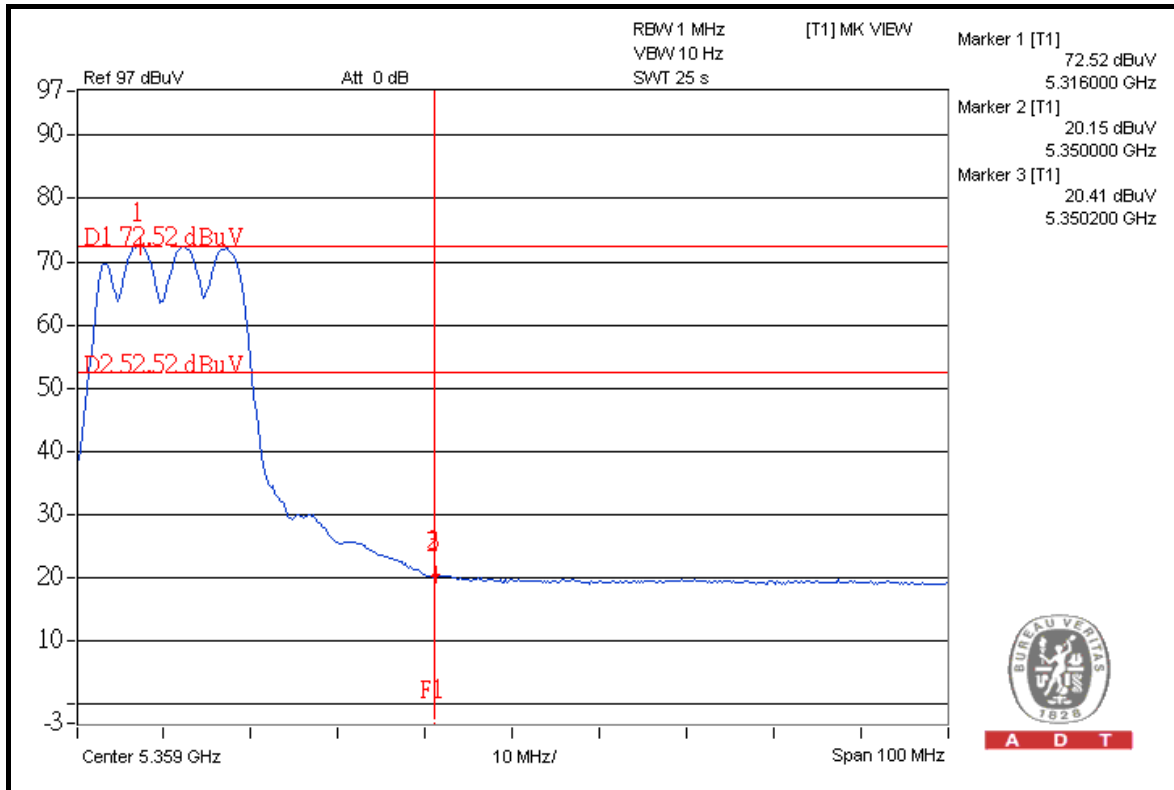
A D T







A D T



**FOR 5500-5700MHz BAND:**

**802.11n (20MHz)**

**5500MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	111.8	51.07	60.73	74.00
5500.00 (AV)	99.6	51.86	47.74	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5500.00 (PK)	111.8	50.86	60.94	68.30

**5700MHz**

**ABOVE 5725 MHz**

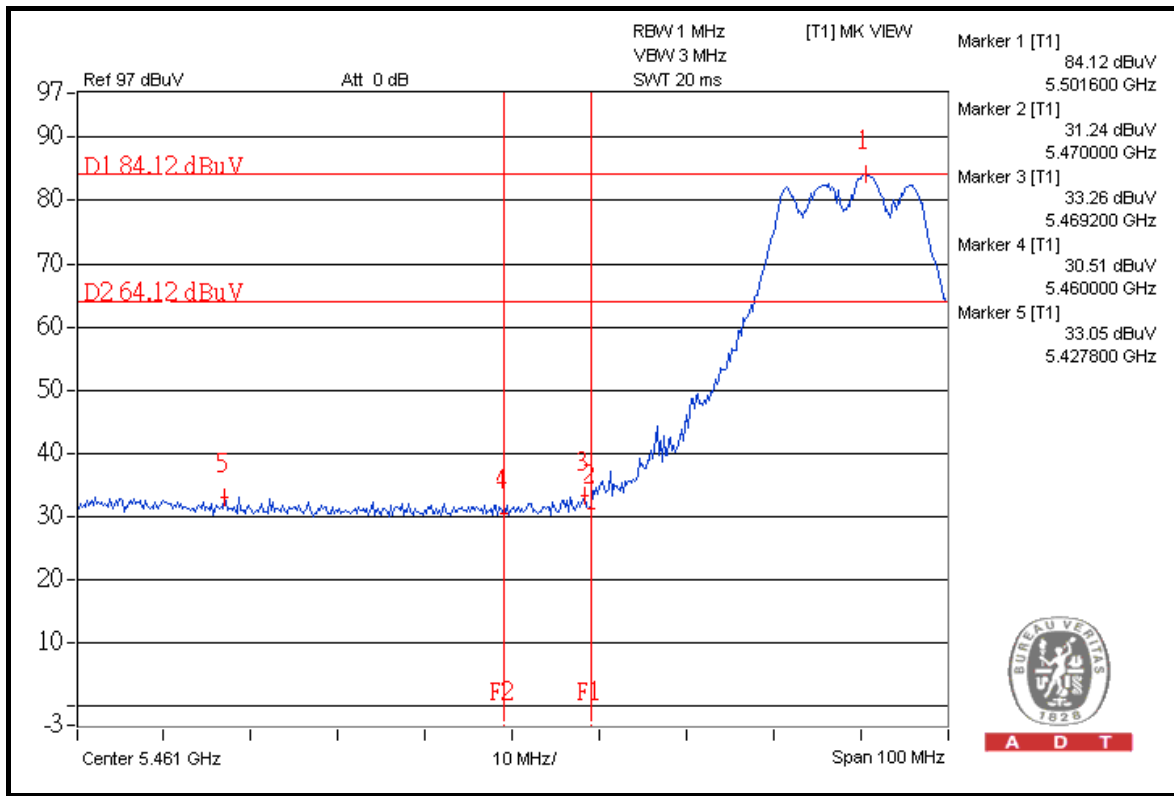
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5700.00 (PK)	110.5	44.89	65.61	68.30

**NOTE:**

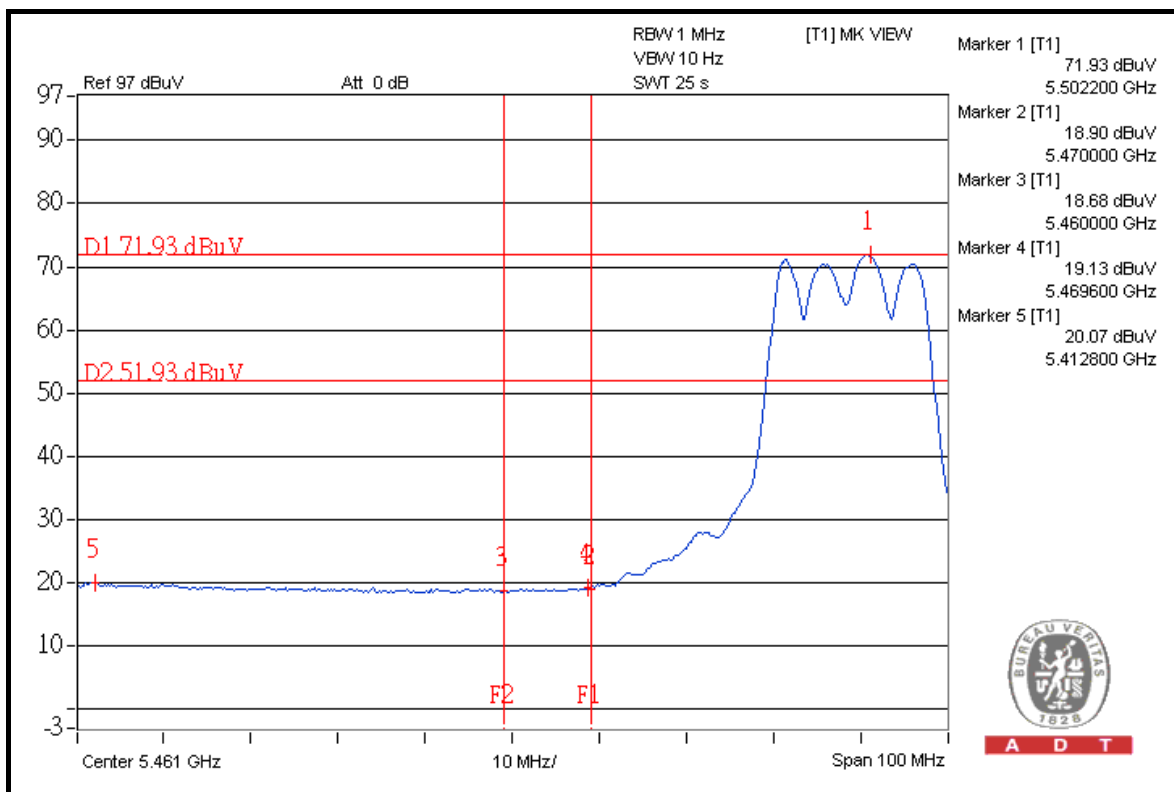
- Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
- Maximum field strength in restrict band = Fundamental emission – Delta.



A D T



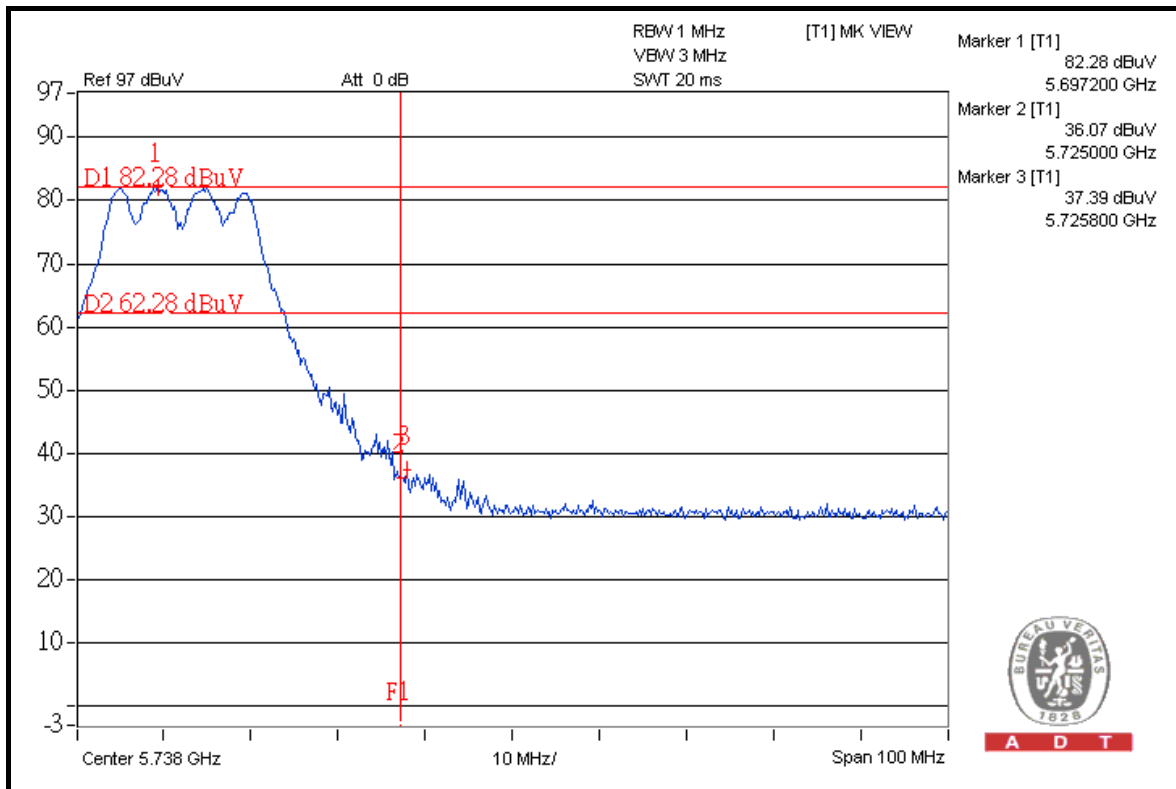
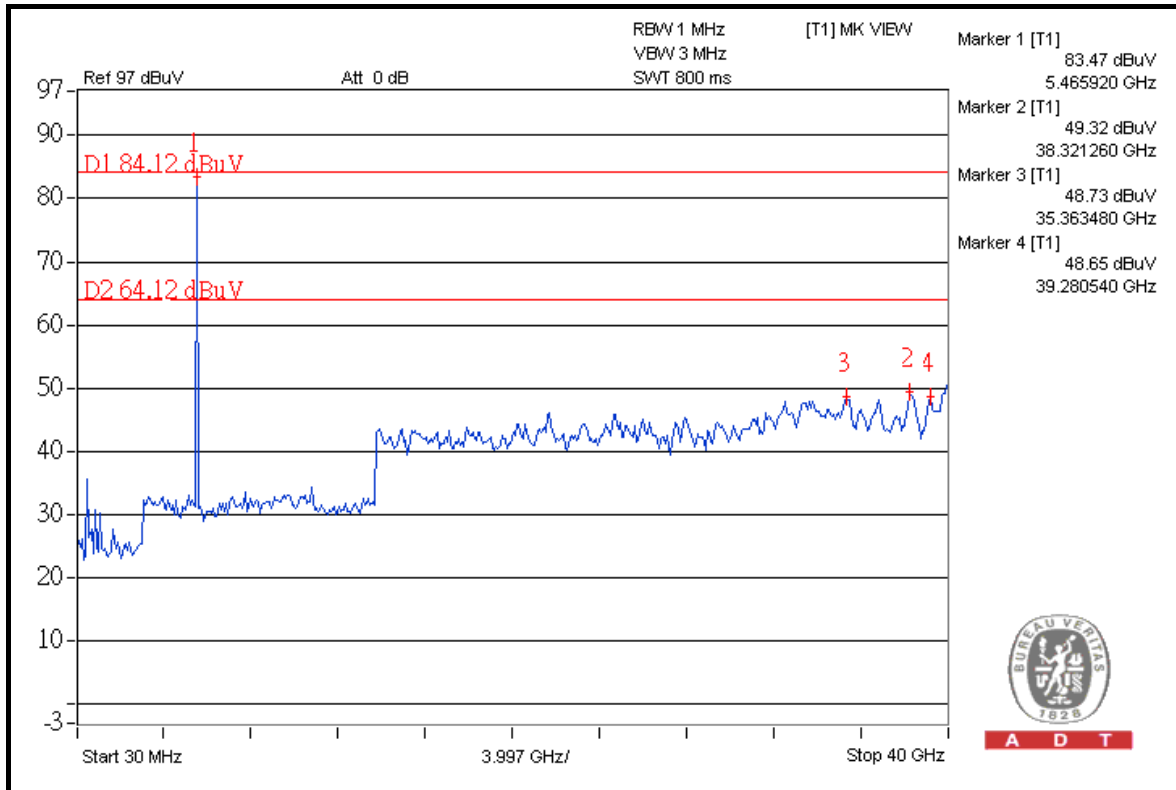
A D T



A D T

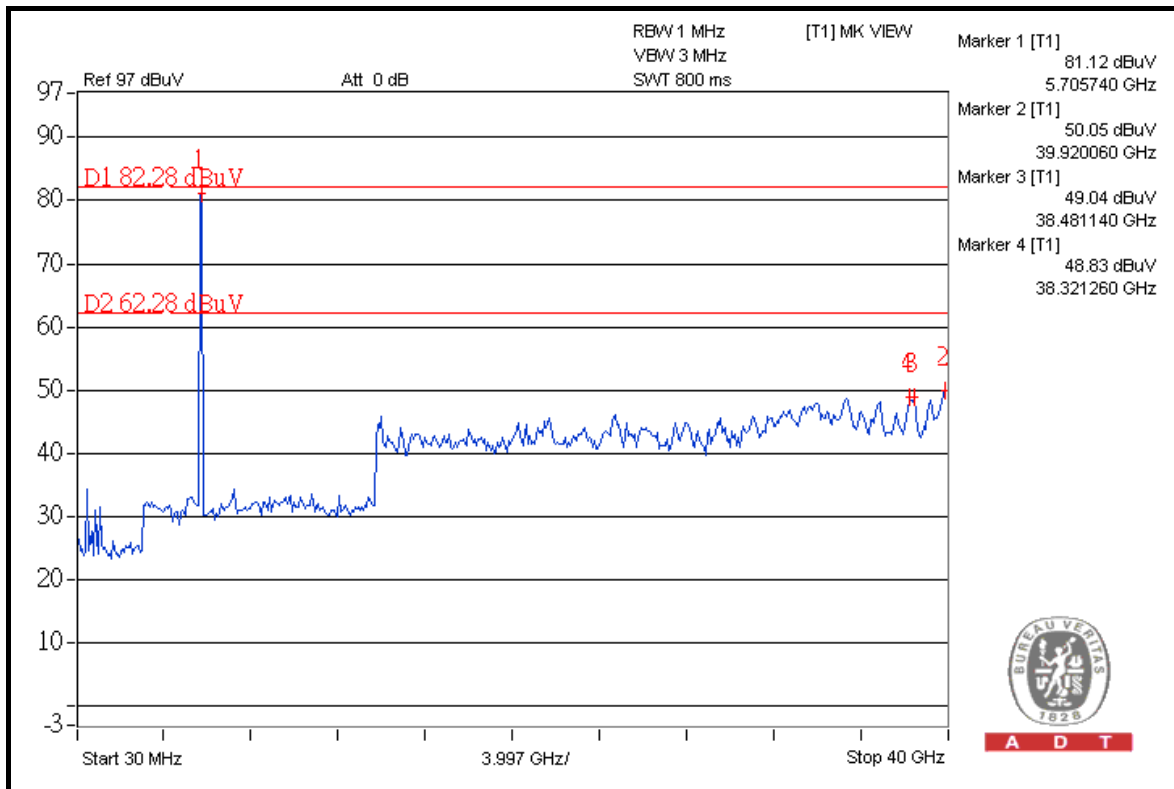
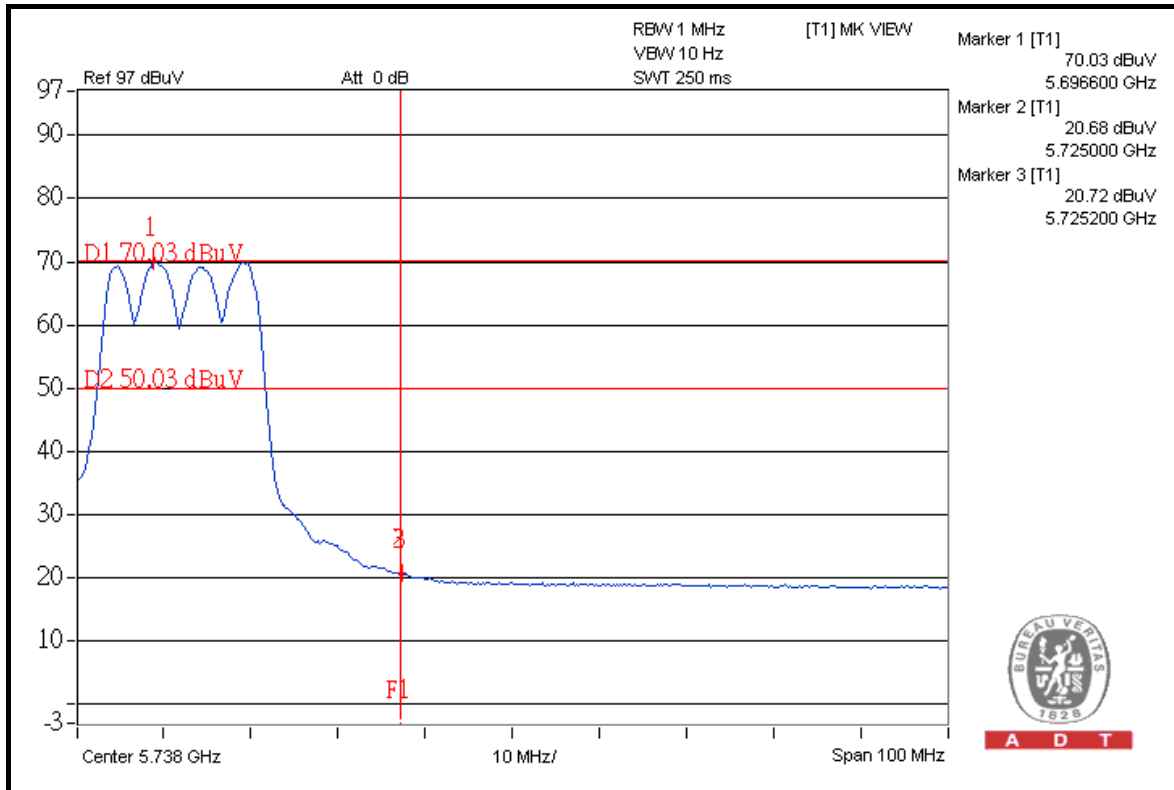


A D T





A D T



**FOR 5260-5320MHz BAND:**

**802.11n (40MHz)**

**RESTRICT BAND (4500 ~ 5150 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5270.00 (PK)	109.4	48.79	60.61	74.00
5270.00 (AV)	97.2	49.95	47.25	54.00

**RESTRICT BAND (5350 ~ 5460 MHz)**

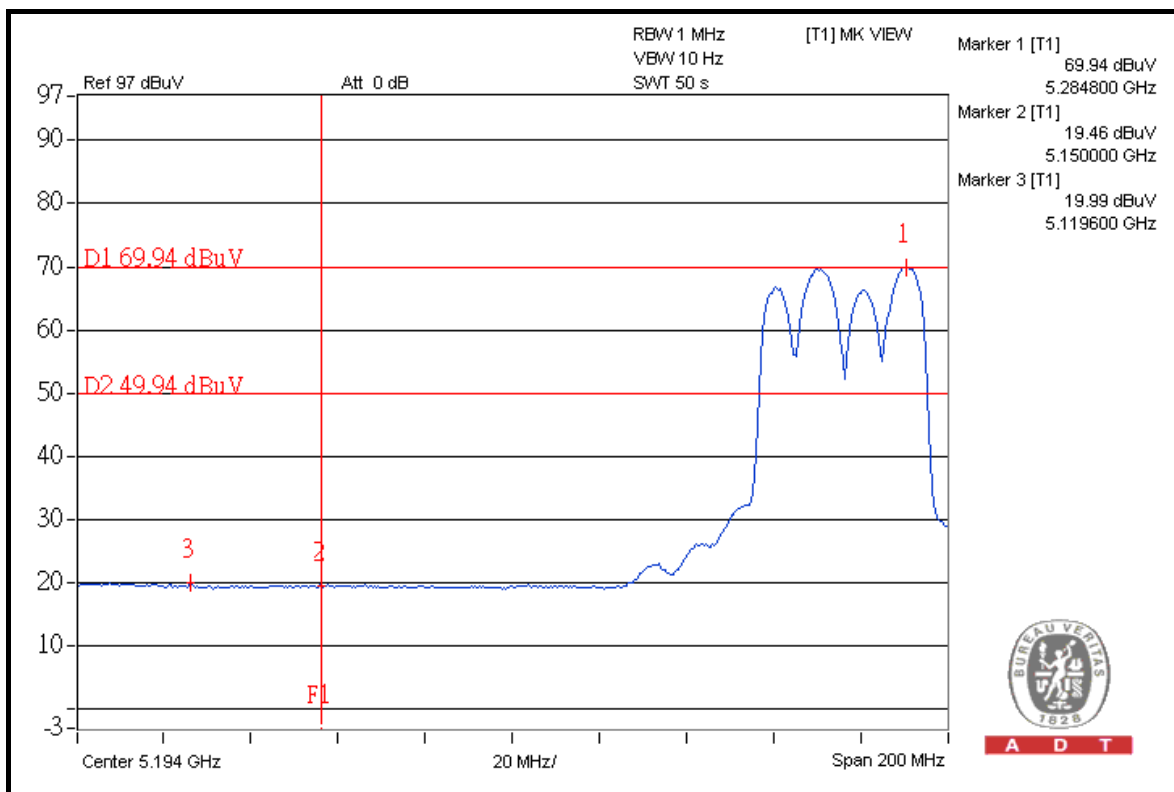
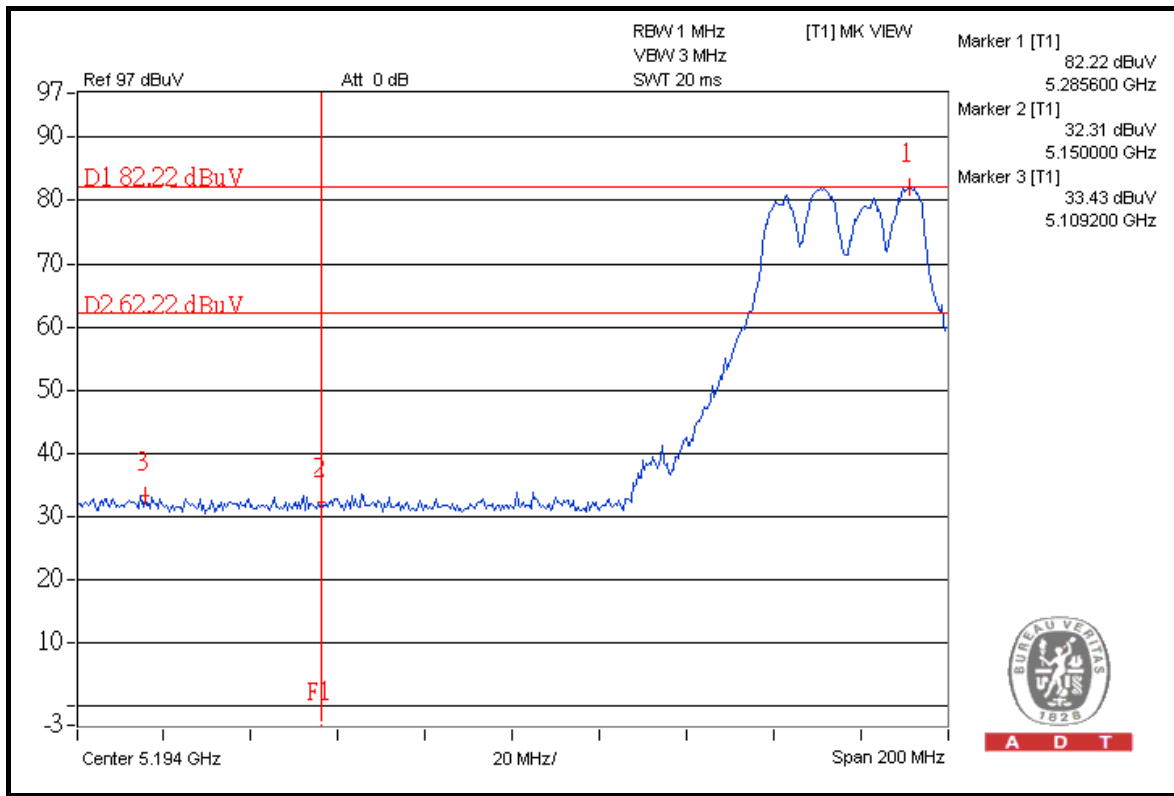
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5310.00 (PK)	107.3	34.73	72.57	74.00
5310.00 (AV)	95.0	44.33	50.67	54.00

**NOTE:**

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

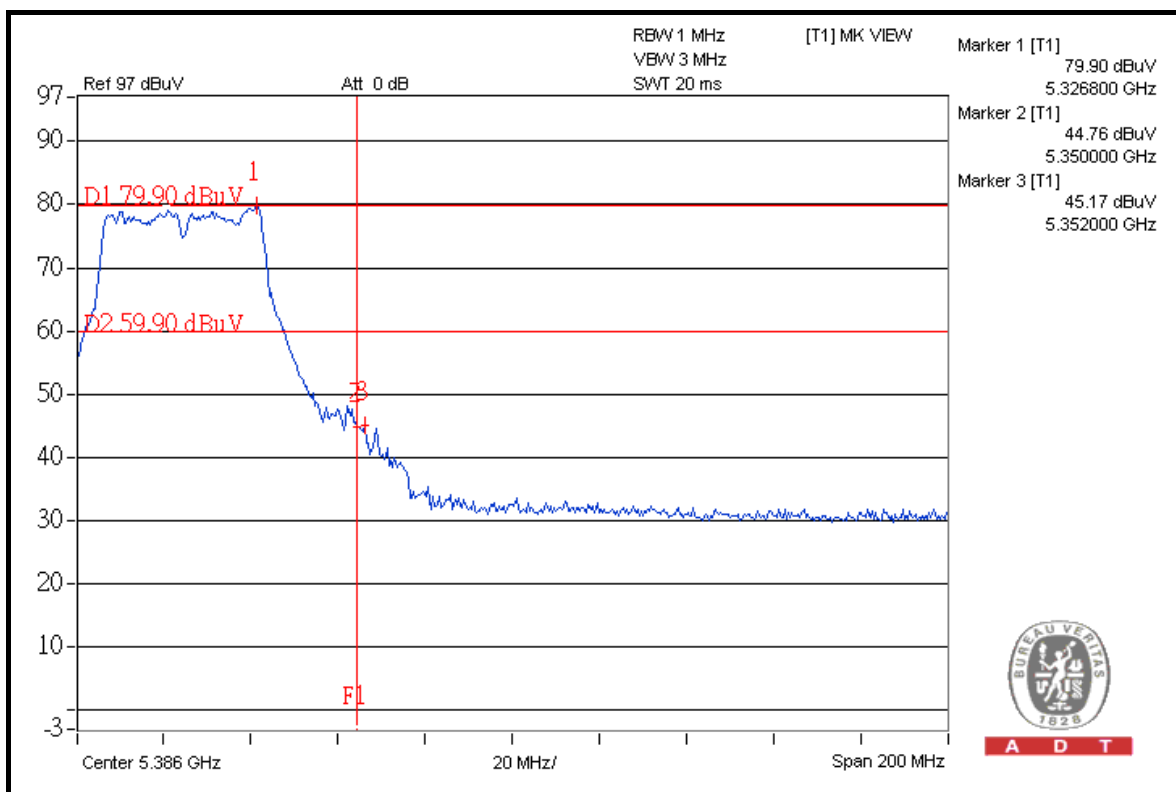
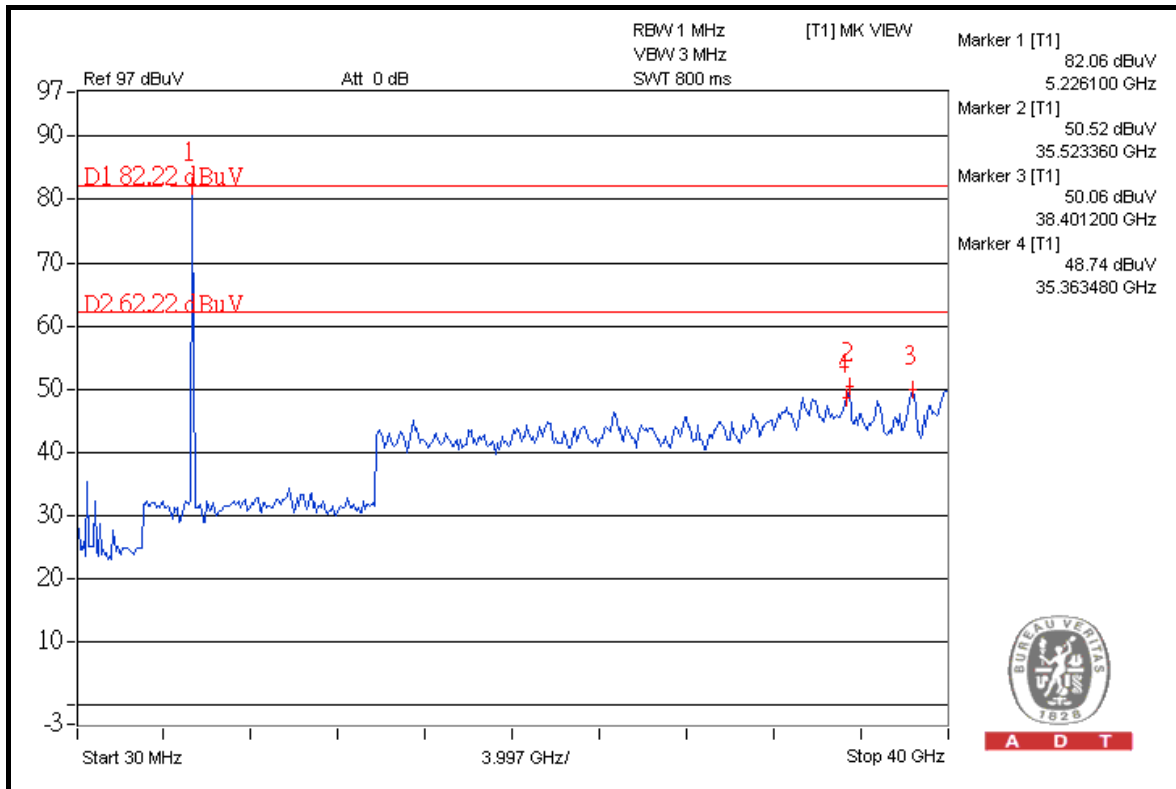


A D T





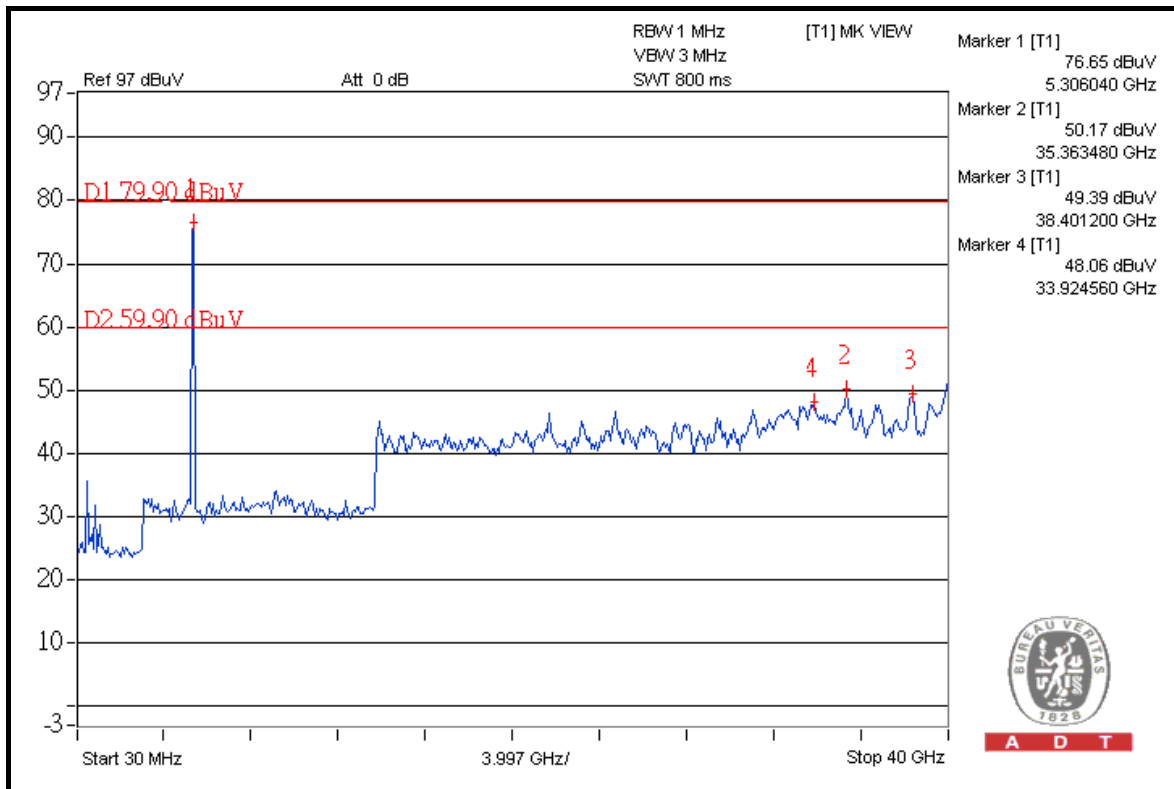
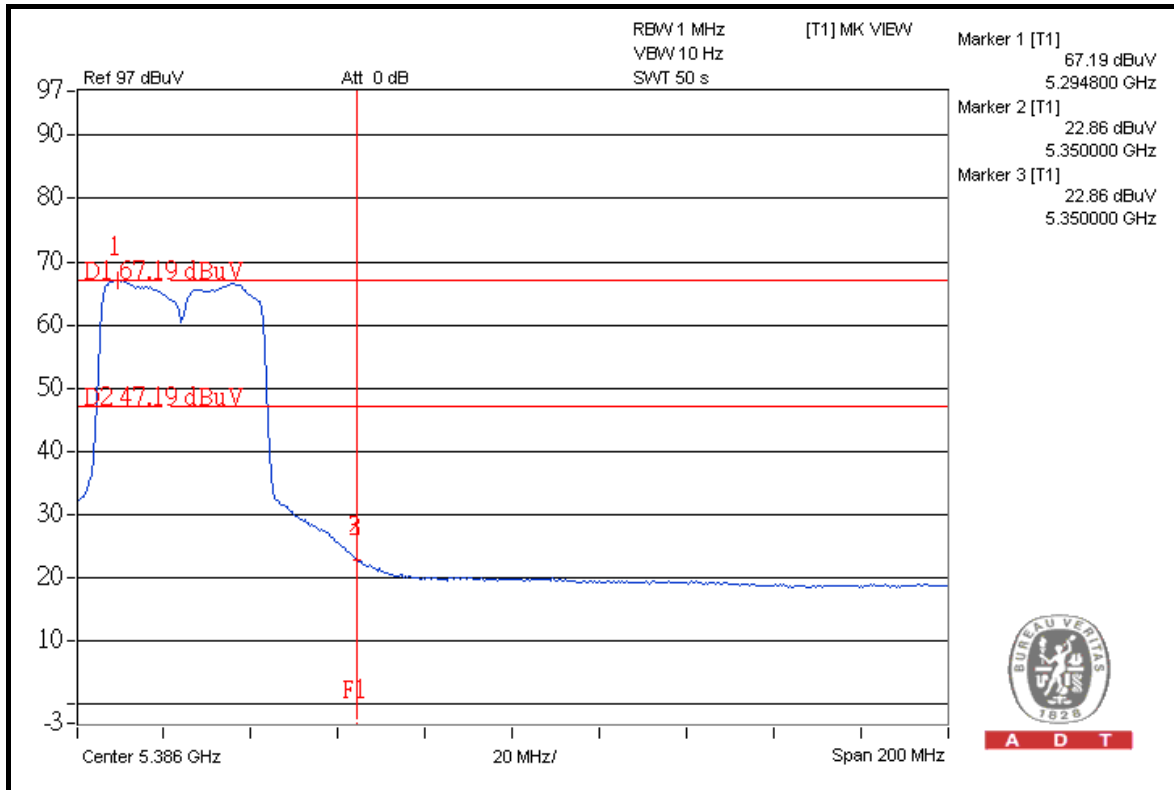
A D T







A D T



**FOR 5500-5700MHz BAND:**

**802.11n (40MHz)**

**5510MHz**

**RESTRICT BAND (5350 ~ 5460 MHz)**

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	105.7	43.05	62.65	74.00
5510.00 (AV)	93.4	45.41	47.99	54.00

**FREQUENCY BAND (5460 ~ 5470 MHz)**

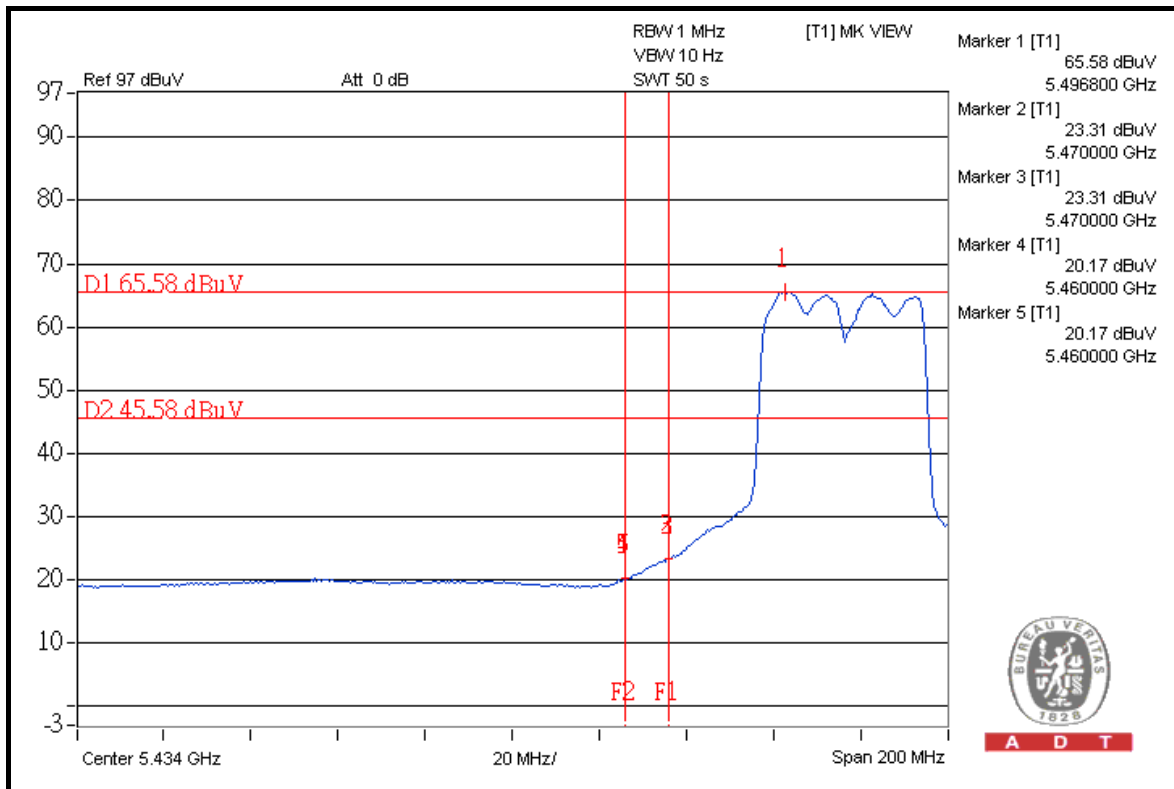
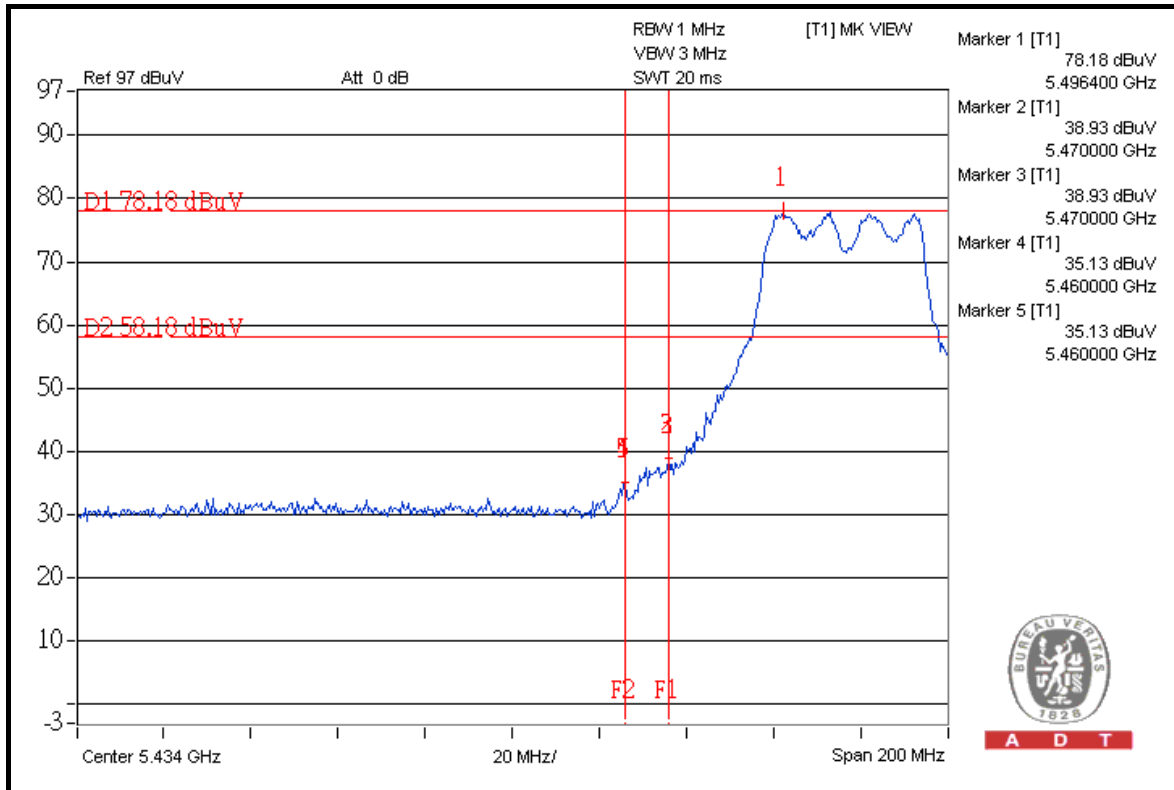
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH (dBuV/m)	LIMIT (dBuV/m)
5510.00 (PK)	105.7	39.25	66.45	68.30

**NOTE:**

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

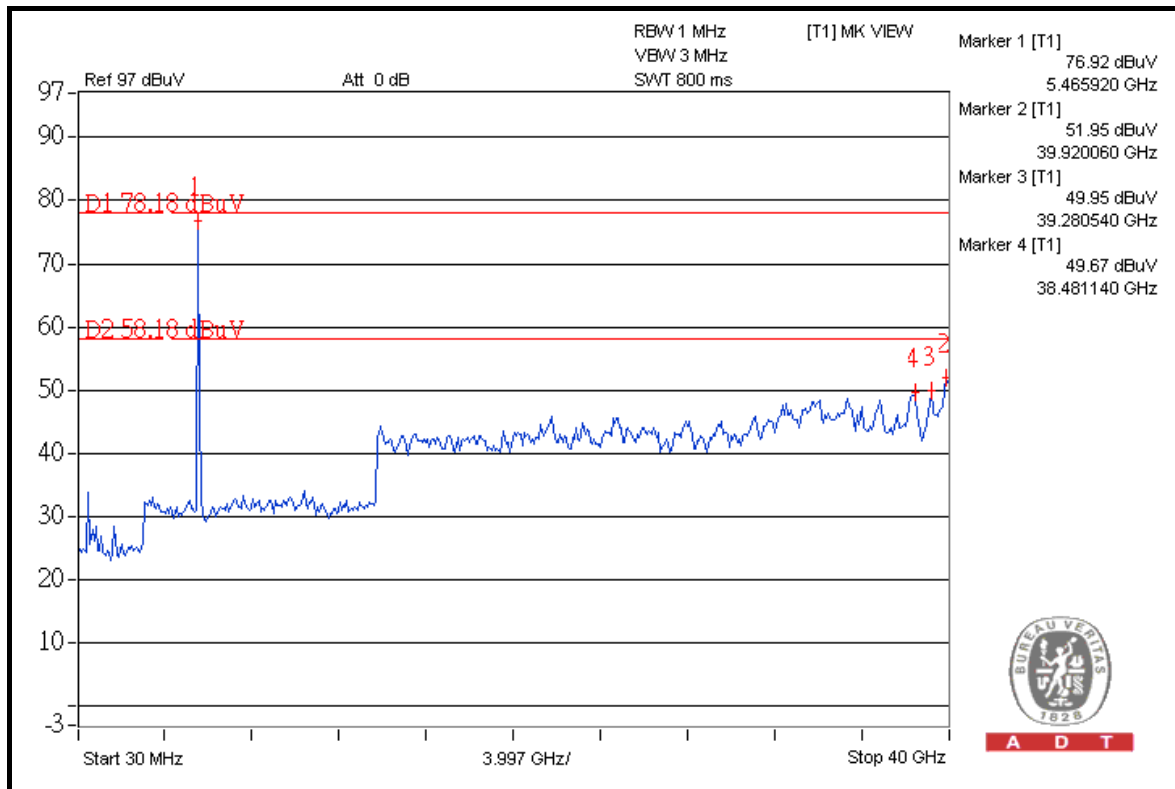


A D T





A D T



A D T

## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



## 6. INFORMATION ON THE TESTING LABORATORIES

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

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

[www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

**Linko EMC/RF Lab:**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab:**

Tel: 886-3-5935343

Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety Telecom Lab:**

Tel: 886-3-3183232

Fax: 886-3-3185050

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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

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

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

**---END---**