



# FCC TEST REPORT

According to

## FCC Rules and Regulations

### Part 15 Subpart C

Applicant : Netgear Inc.  
Address : 350 East Plumeria Drive, San Jose, CA 95134, USA  
Equipment : RangeMax Dual Band Wireless-N Modem Router  
Model No. : DGND3300, DGND3300B V1H1  
FCC ID : PY308200090  
Trade Name : NETGEAR

Laboratory Accreditation



- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **CerpPASS Technology Corp.**, the test report shall not be reproduced except in full.
- 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.



## Contents

<b>1. Report of Measurements and Examinations</b> .....	<b>5</b>
1.1 List of Measurements and Examinations .....	5
<b>2. Test Configuration of Equipment under Test</b> .....	<b>6</b>
2.1 Feature of Equipment under Test.....	6
2.2 Carrier Frequency of Channels .....	7
2.3 Test Mode and Test Software .....	8
2.4 Description of Test System.....	8
2.5 Connection Diagram of Test System.....	9
2.6 General Information of Test.....	10
2.7 Measurement Uncertainty .....	10
2.8 History of this test report .....	11
<b>3. Antenna Requirements</b> .....	<b>12</b>
3.1 Standard Applicable .....	12
3.2 Antenna Construction and Directional Gain.....	12
<b>4. Test of Conducted Emission</b> .....	<b>13</b>
4.1 Test Limit .....	13
4.2 Test Procedures .....	13
4.3 Typical Test Setup .....	14
4.4 Measurement Equipment.....	14
4.5 Test Result and Data .....	15
4.6 Test Photographs .....	27
<b>5. Test of Radiated Emission</b> .....	<b>28</b>
5.1 Test Limit .....	28
5.2 Test Procedures .....	28
5.3 Typical Test Setup .....	29
5.4 Measurement Equipment.....	29
5.5 Test Result and Data .....	30
5.6 Test Photographs .....	94
<b>6. 6dB Bandwidth Measurement Data</b> .....	<b>95</b>
6.1 Test Limit .....	95
6.2 Test Procedures .....	95
6.3 Test Setup Layout .....	95
6.4 Measurement Equipment.....	95
6.5 Test Result and Data .....	96
<b>7. Maximum Peak Output Power</b> .....	<b>117</b>
7.1 Test Limit .....	117
7.2 Test Procedures .....	117
7.3 Test Setup Layout .....	117
7.4 Measurement Equipment.....	117
7.5 Test Result and Data .....	117
<b>8. Power Spectral Density</b> .....	<b>139</b>
8.1 Test Limit .....	139
8.2 Test Procedures .....	139
8.3 Test Setup Layout .....	139



8.4 Measurement Equipment..... 139

8.5 Test Result and Data..... 140

**9. Band Edges Measurement ..... 161**

9.1 Test Limit ..... 161

9.2 Test Procedure ..... 161

9.3 Test Setup Layout ..... 161

9.4 Measurement Equipment..... 161

9.5 Test Result and Data..... 162

9.6 Restrict Band Emission Measurement Data ..... 191

**10. Restricted Bands of Operation ..... 193**

10.1 Labeling Requirement..... 193

**Appendix A. Photographs of EUT.....A1 ~ A8**



# CERTIFICATE OF COMPLIANCE

According to

## FCC Rules and Regulations

### Part 15 Subpart C

Applicant : Netgear Inc.  
Address : 350 East Plumeria Drive, San Jose, CA 95134, USA  
Equipment : RangeMax Dual Band Wireless-N Modem Router  
Model No. : DGND3300, DGND3300B V1H1  
FCC ID : PY308200090

**I HEREBY CERTIFY THAT :**

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2005)**.

The test was carried out on Dec. 30, 2008 at CerpPASS Technology Corp.

Signature

Anson Chou /

EMC/RF B.U. Vice General Manager



# 1. Report of Measurements and Examinations

## 1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

<b>Network Protocol and Standards Compatibility</b>	
Data and Routing Protocols	TCP/IP, RIP-1, RIP-2, DHCP, PPPoE or PPPoA, RFC 1483 Bridged or Routed Ethernet, and RFC 1577 Classical IP over ATM
<b>Power Adapter</b>	
North America	Input: 100-240V, 50/60 Hz, 0.6A, Output: 12V, 1.5A
UK, Australia	Input: 100-240V, 50/60 Hz, 0.6A, Output: 12V, 1.5A
Europe	Input: 100-240V, 50/60 Hz, 0.6A, Output: 12V, 1.5A
<b>Physical</b>	
Dimensions	8.9" x 6.8" x 1.5" (225.5 mm x 172 mm x 39 mm)
Weight	1.2 lbs. (0.54 kg)
<b>Environmental</b>	
Operating temperature	0° to 40° C (32° to 104° F)
Operating humidity	10% to 90% relative humidity, non-condensing
Storage temperature	-20° to 70° C (-4° to 158° F)
<b>Interface Specifications</b>	
LAN	10BASE-T or 100BASE-Tx, RJ-45
WAN	(ADSL) ITU 992.1 (G.dmt) Annex A, ITU 992.2 (G.lite), ITU 992.3 ADSL2 (G.dmt.bis), ITU 992.5 ADSL2+. Annex A ADSL is supported by DGND3300, Annex B ADSL is supported by DGND3300
<b>Wireless</b>	
Spreading	802.11b: DSSS, CCK(QPSK, BPSK) 802.11g / n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11a / an: OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency Range	2412 ~ 2462 MHz, 5150 ~ 5250 MHz, 5725 ~ 5850 MHz
Number of Channels	802.11b/g/n HT20: -USA, Canada and Taiwan: CH 1 ~ 11 (11channels) -Most European Countries: CH 1 ~ 13 (13channels) -France: CH 1 ~ 7 (7channels) 802.11n HT40: -USA, Canada and Taiwan: CH 3 ~ 9 (7channels) -Most European Countries: CH 1 ~ 13 (13channels) -France: CH 3 ~ 5 (3channels) 802.11a/an HT20: -USA, Canada and Taiwan: CH 36,40,44,48 (4channels) -Most European Countries: CH 36,40,44,48 (4channels) -France: CH 36,40,44,48 (4channels) 802.11a/an HT40: -USA, Canada and Taiwan: CH 38,42,46 (3channels) -Most European Countries: CH 38,42,46 (3channels) -France: CH 38,42,46 (3channels)



Data Rate	802.11b: 11, 5.5, 2, 1 Mbps 802.11g / a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n / an HT20: 130/15, 117/14, 104/13, 78/12, 52/11, 39/10, 26/9, 13/8, 65/7, 58.5/6, 52/5, 39/4, 26/3, 19.5/2, 13/1, 6.5/0Mbps 802.11 n / an HT40: 270/15, 243/14, 216/13, 162/12, 108/11, 81/10, 54/9, 27/8, 135/7, 121.5/6, 108/5, 81/4, 54/3, 40.5/2, 27/1, 13.5/0Mbps
Transmit Power	802.11b: 17~18 dBm (Average); 802.11g: 17dBm (Average); 802.11n HT20:19dBm~20dBm( Tx1+Tx2 Average); 802.11n HT40:19dBm~20dBm (Tx1+Tx2 Average); 802.11an(5GHz) HT20: 15dBm~16dBm( Tx1+Tx2 Average); 802.11an(5GHz) HT40: 15dBm~16dBm (Tx1+Tx2 Average)
Antenna Type / Gain	Print antenna / Ant1 (for 802.11b/g): 3.2dBi; Ant2 (for 802.11b/g): 1.6dBi; Ant3 (for 802.11n): 2.6dBi; Ant3 (for 802.11a/an): 3.7dBi; Ant5 (for 802.11n): 2.1dBi; Ant5 (for 802.11a/an): 3.8dBi

## 2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20 (2412 ~ 2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n HT40 (2412 ~ 2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---

802.11a, 802.11an HT20 (5725 ~ 5850MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	161	5805
153	5765	165	5825
157	5785	---	---

802.11an HT 40 (5725 ~ 5850MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
151	5755	159	5795
155	5775	---	---



### 2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included remote workstation, PC, Monitor, Keyboard, Mouse, Modem, Printer, Flash Memory and EUT for EMI test. The remote workstation includes Notebook and ADSL Switch.
- c. An executive program, ping.exe under WIN XP, which transmits and receives data to the remote workstation through RJ11 and Wireless (270M).
- d. The following test modes were performed for test:
  - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
  - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
  - 802.11a/an HT20: CH 149: 5745MHz, CH 157: 5785MHz, CH 165: 5825MHz
  - 802.11an HT40: CH 151: 5755MHz, CH 159: 5795MHz
- e. Test Adapter: MU18-2120150-A1

### 2.4 Description of Test System

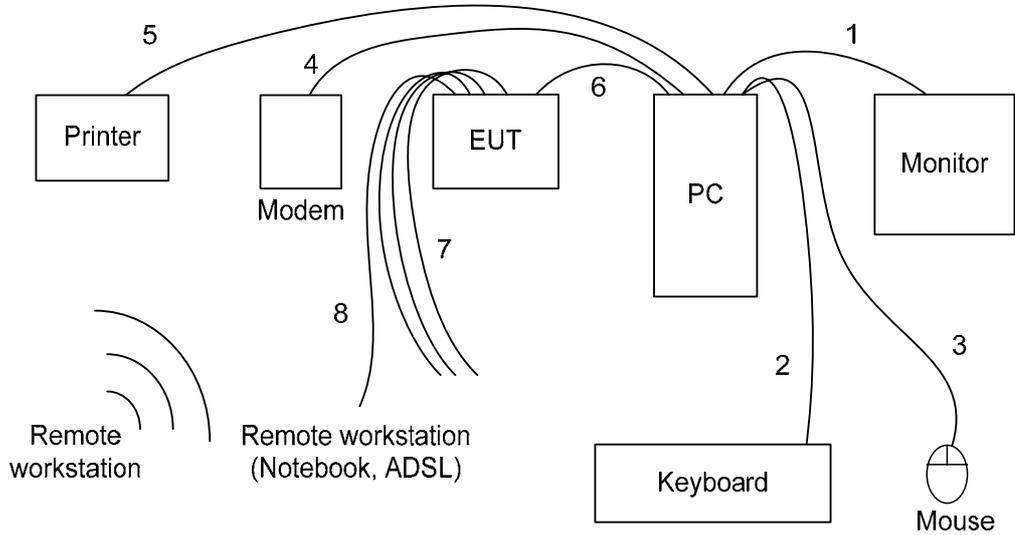
Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA Shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 Shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB Shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 Shielding 1.35 m
Printer	HP	Desk Jet 400	Power Cable, Adapter Unshielding 1.8 m Data Cable, Print Shielding 1.6 m
Flash Memory	PSI	Des Jahres 2006	N/A
Remote Workstation			
Notebook	DELL	PP10L	Power Cable, Adapter Unshielding 1.8 m
Notebook	TOSHIBA	PSA50T-05M00C	Power Cable, Adapter Unshielding 1.8 m
ADSL Switch	D-Link	DAS 3224	N/A

Use Cable:

Cable	Quantity	Description
RJ45	3	Unshielding, 3.0m
RJ45	1	Unshielding, 1.5m
RJ11	1	Unshielding, 5.0m



### 2.5 Connection Diagram of Test System



1. The VGA cable is connected from PC to the Monitor.
  2. The PS2 cable is connected from PC to the PS2 Keyboard.
  3. The USB cable is connected from PC to the USB Mouse.
  4. The RS232 cable is connected from PC to the Modem.
  5. The Print cable is connected from PC to the Printer.
  6. The RJ45 cable is connected from PC to the EUT.
  7. These RJ45 cables (\*3) are floating.
  8. The RJ11 cable is connected from EUT to the Remote workstation.
- \* The EUT keeps to transmit and receive data to remote workstation by Wireless.



## 2.6 General Information of Test

Test Site :	CerpPASS Technology Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei City 223, Taiwan, R.O.C. Registration Number: 632249.
FCC Registration Number :	632249
IC Registration Number :	4934B-1
VCCI Registration Number :	T-338 for Telecommunication Test C-2188 for Conducted emission test R-1902 for Radiated emission test
Test Voltage:	AC 120V
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 40,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

## 2.7 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	2.71 dB
Radiated Emission	30 MHz ~ 40GHz	Vertical	4.11 dB
		Horizontal	4.10 dB
6 dB Bandwidth	---	---	7500 Hz
Maximum Peak Output Power	---	---	1.4 dB
100kHz Bandwidth of Frequency Band Edges	---	---	2.2 dB
Power Spectral Density	---	---	2.2 dB





### 3. Antenna Requirements

#### 3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 3.2 Antenna Construction and Directional Gain

- Ant1: Printed antenna, 3.2 dBi (2.4GHz Band)
- Ant2: Printed antenna, 1.6 dBi (2.4GHz Band)
- Ant3: Printed antenna, 2.6 dBi (2.4GHz Band)  
3.7 dBi (5GHz Band)
- Ant5: Printed antenna, 2.1 dBi (2.4GHz Band)  
3.8 dBi (5GHz Band)



## 4. Test of Conducted Emission

### 4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

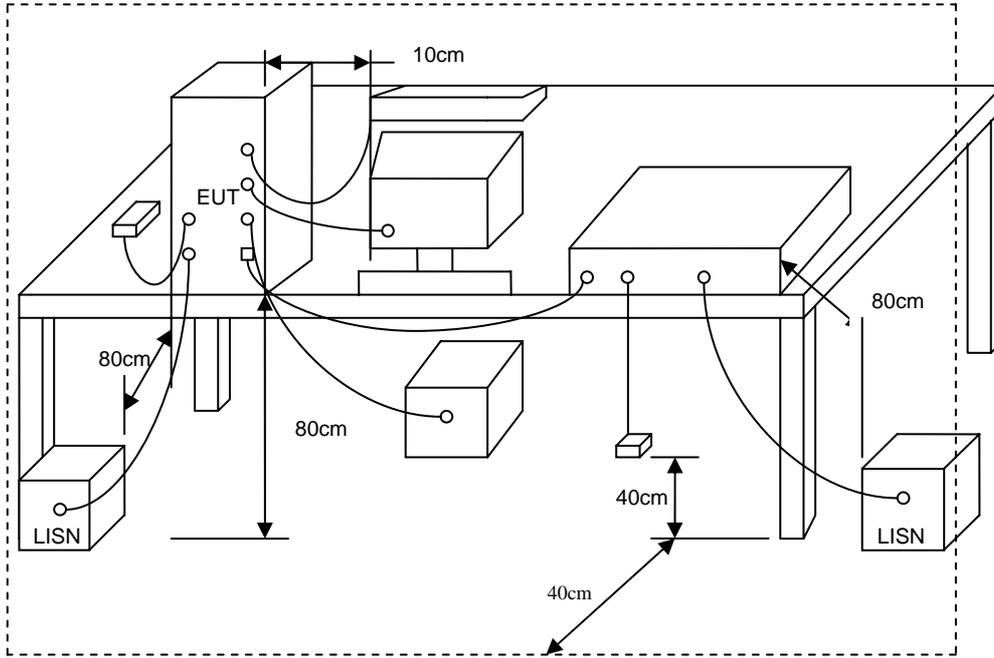
\*Decreases with the logarithm of the frequency.

### 4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



### 4.3 Typical Test Setup



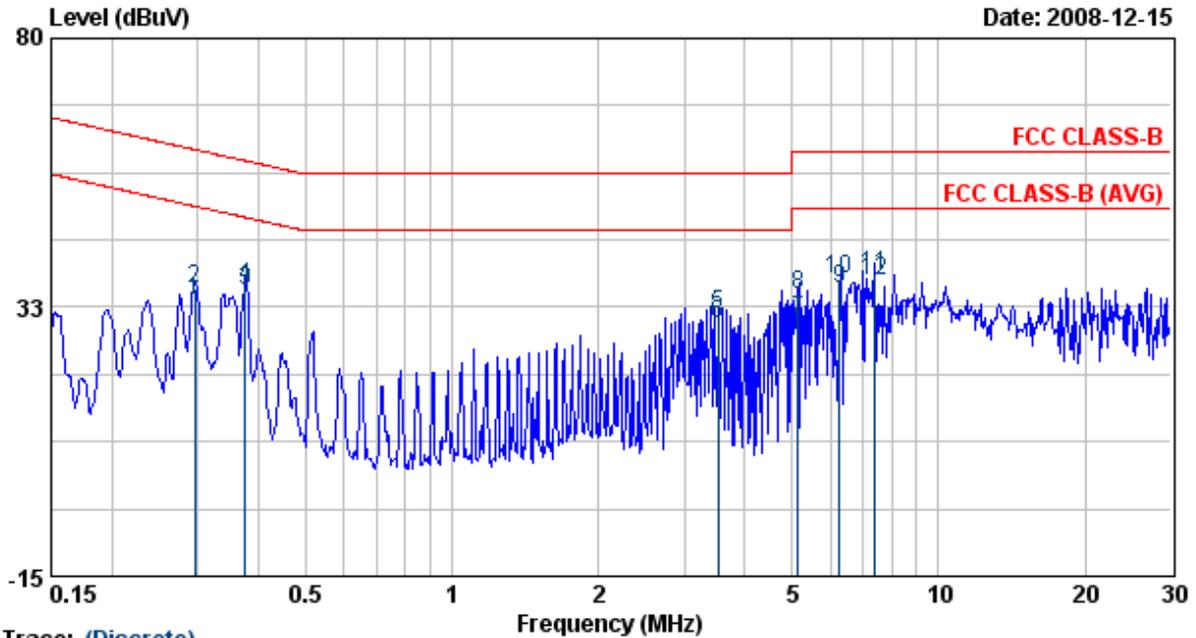
### 4.4 Measurement Equipment

Instrument/ Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
EMI Receiver	R&S	ESCI	100443	2008/09/27	2009/09/26
LISN	MESS TEC	NNB-2/16Z	02/10191	2008/05/14	2009/05/13
LISN	ROLF HEINE	NNB-2/16Z	03/10058	2008/04/19	2009/04/18



### 4.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11g, CH1	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



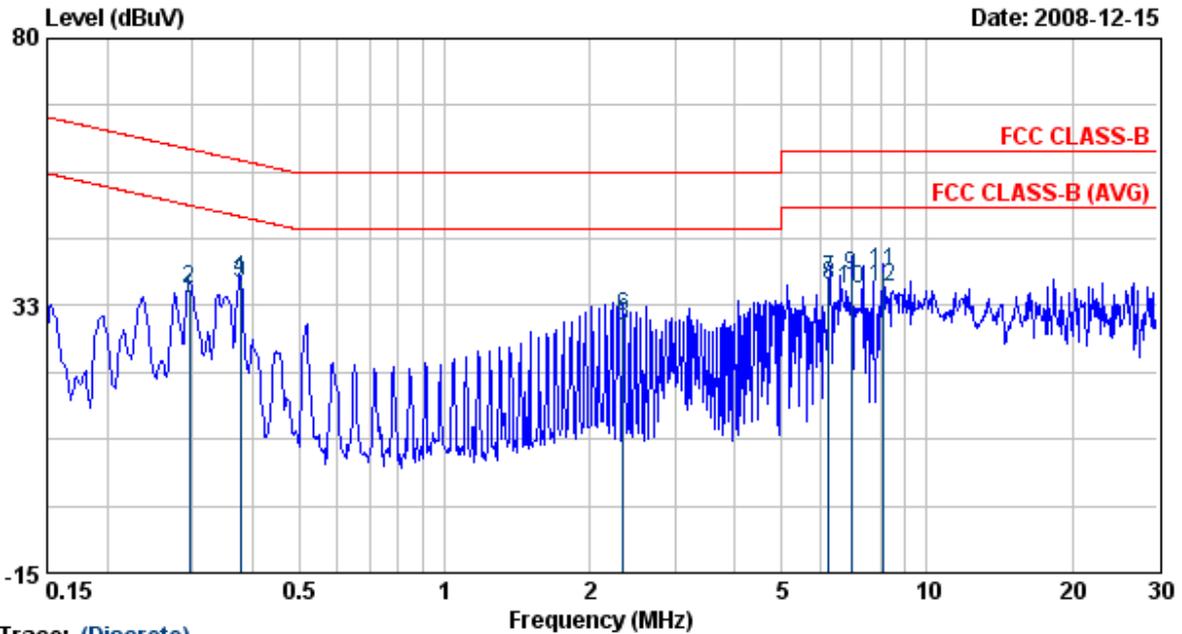
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.30	33.62	0.12	33.75	50.37	-16.62	AVERAGE
2	0.30	35.50	0.12	35.62	60.37	-24.74	QP
3	0.38	35.17	0.12	35.29	48.37	-13.08	AVERAGE
4	0.38	35.88	0.12	36.00	58.37	-22.37	QP
5	3.52	31.00	0.30	31.31	56.00	-24.69	QP
6	3.52	29.37	0.30	29.67	46.00	-16.33	AVERAGE
7	5.15	29.83	0.33	30.16	50.00	-19.84	AVERAGE
8	5.15	34.35	0.33	34.68	60.00	-25.32	QP
9	6.25	35.44	0.34	35.78	50.00	-14.22	AVERAGE
10	6.25	37.06	0.34	37.40	60.00	-22.60	QP
11	7.36	38.00	0.35	38.34	60.00	-21.66	QP
12	7.36	36.91	0.35	37.26	50.00	-12.74	AVERAGE

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. All emission below 1GHz at 802.11g mode are all the same,so the 802.11g mode chosen as representative in final test.
  4. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
  5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11g, CH1	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



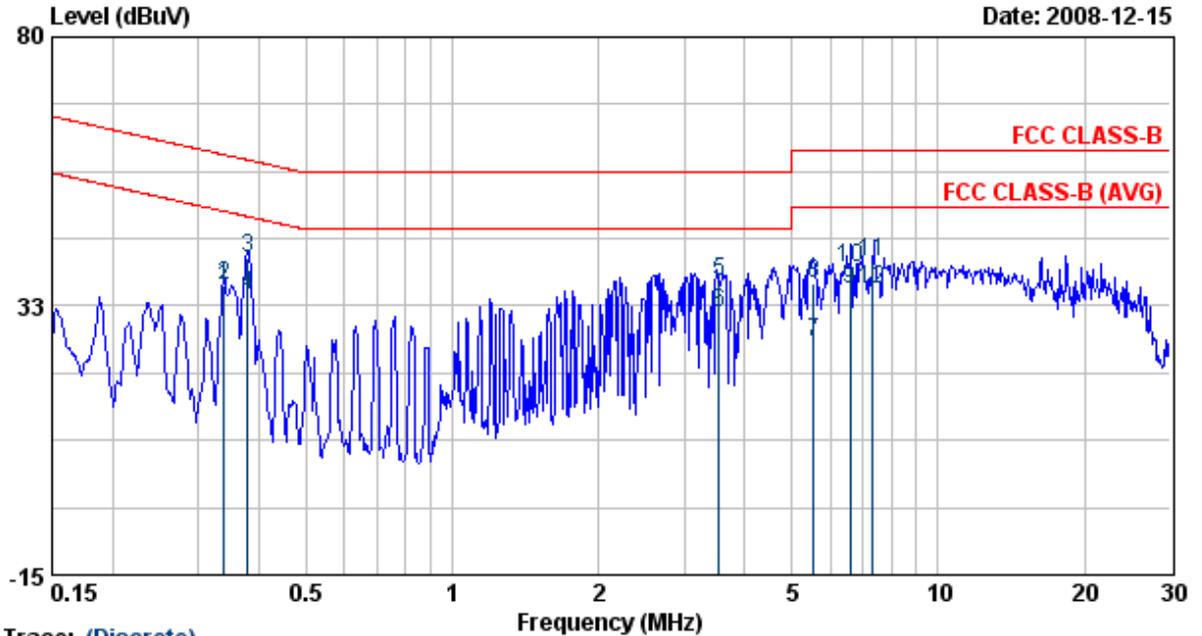
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.30	33.65	0.14	33.79	50.35	-16.56	AVERAGE
2	0.30	35.25	0.14	35.39	60.35	-24.95	QP
3	0.38	36.25	0.15	36.40	48.32	-11.92	AVERAGE
4	0.38	37.08	0.15	37.22	58.32	-21.10	QP
5	2.34	28.80	0.25	29.04	46.00	-16.96	AVERAGE
6	2.34	30.50	0.25	30.75	56.00	-25.25	QP
7	6.25	36.82	0.35	37.17	60.00	-22.83	QP
8	6.25	35.74	0.35	36.09	50.00	-13.91	AVERAGE
9	6.98	37.39	0.36	37.75	60.00	-22.25	QP
10	6.98	35.21	0.36	35.57	50.00	-14.43	AVERAGE
11	8.09	38.06	0.38	38.43	60.00	-21.57	QP
12	8.09	35.33	0.38	35.71	50.00	-14.29	AVERAGE

- Remarks:
- Level = Read Level + Factor
  - Factor = LISN(ISN) Factor + Cable Loss
  - All emission below 1GHz at 802.11g mode are all the same,so the 802.11g mode chosen as representative in final test.
  - According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
  - The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



Trace: (Discrete)

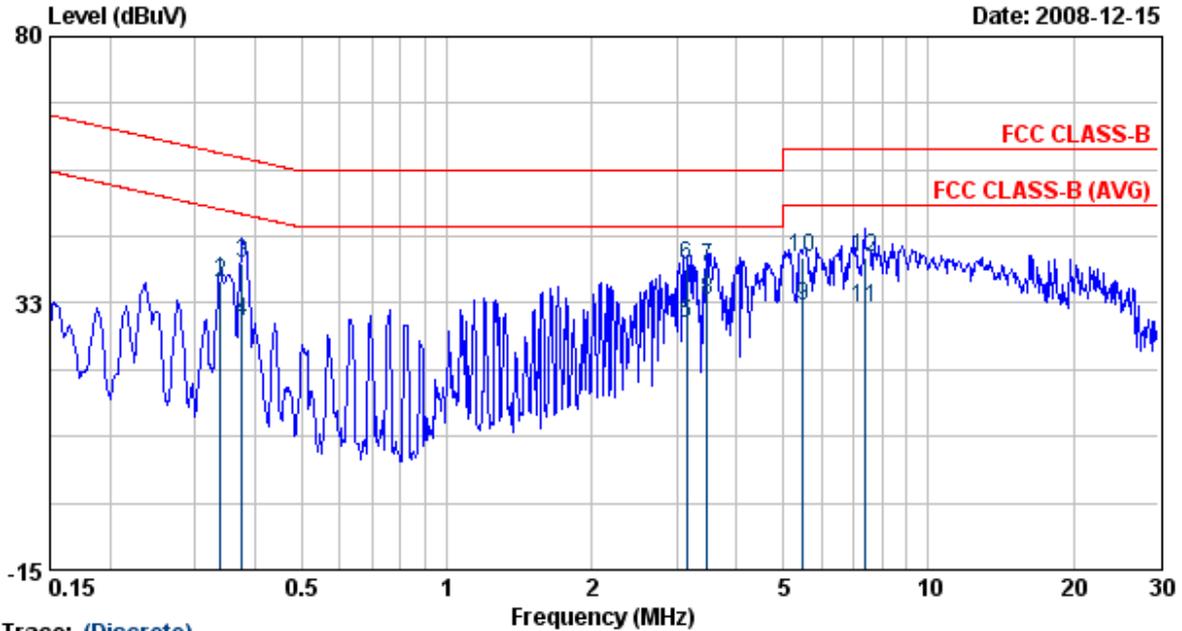
Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.34	35.70	0.12	35.82	49.22	-13.39	AVERAGE
2	0.34	35.94	0.12	36.06	59.22	-23.16	QP
3	0.38	40.94	0.12	41.06	58.30	-17.23	QP
4	0.38	34.28	0.12	34.40	48.30	-13.90	AVERAGE
5	3.53	36.38	0.30	36.69	56.00	-19.31	QP
6	3.53	30.92	0.30	31.23	46.00	-14.77	AVERAGE
7	5.54	25.90	0.33	26.23	50.00	-23.77	AVERAGE
8	5.54	36.05	0.33	36.39	60.00	-23.61	QP
9	6.60	35.18	0.34	35.52	50.00	-14.48	AVERAGE
10	6.60	39.02	0.34	39.37	60.00	-20.63	QP
11	7.33	39.77	0.35	40.11	60.00	-19.89	QP
12	7.33	34.94	0.35	35.29	50.00	-14.71	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
4. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



Trace: (Discrete)

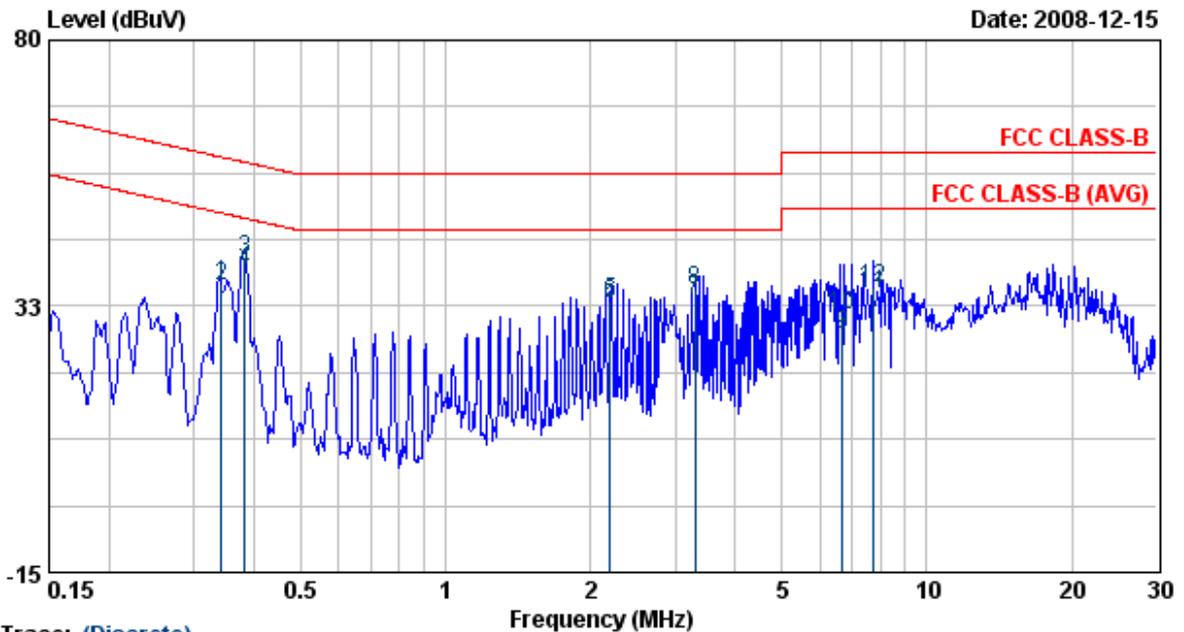
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.34	36.45	0.15	36.59	59.24	-22.65	QP
2	0.34	36.09	0.15	36.24	49.24	-13.00	AVERAGE
3	0.38	39.53	0.15	39.68	58.36	-18.68	QP
4	0.38	29.15	0.15	29.30	48.36	-19.06	AVERAGE
5	3.14	28.51	0.28	28.78	46.00	-17.22	AVERAGE
6	3.14	39.11	0.28	39.39	56.00	-16.61	QP
7	3.47	38.64	0.29	38.92	56.00	-17.08	QP
8	3.47	32.70	0.29	32.98	46.00	-13.02	AVERAGE
9	5.49	31.48	0.33	31.82	50.00	-18.18	AVERAGE
10	5.49	40.27	0.33	40.60	60.00	-19.40	QP
11	7.38	31.43	0.37	31.80	50.00	-18.20	AVERAGE
12	7.38	40.17	0.37	40.54	60.00	-19.46	QP

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
4. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



Trace: (Discrete)

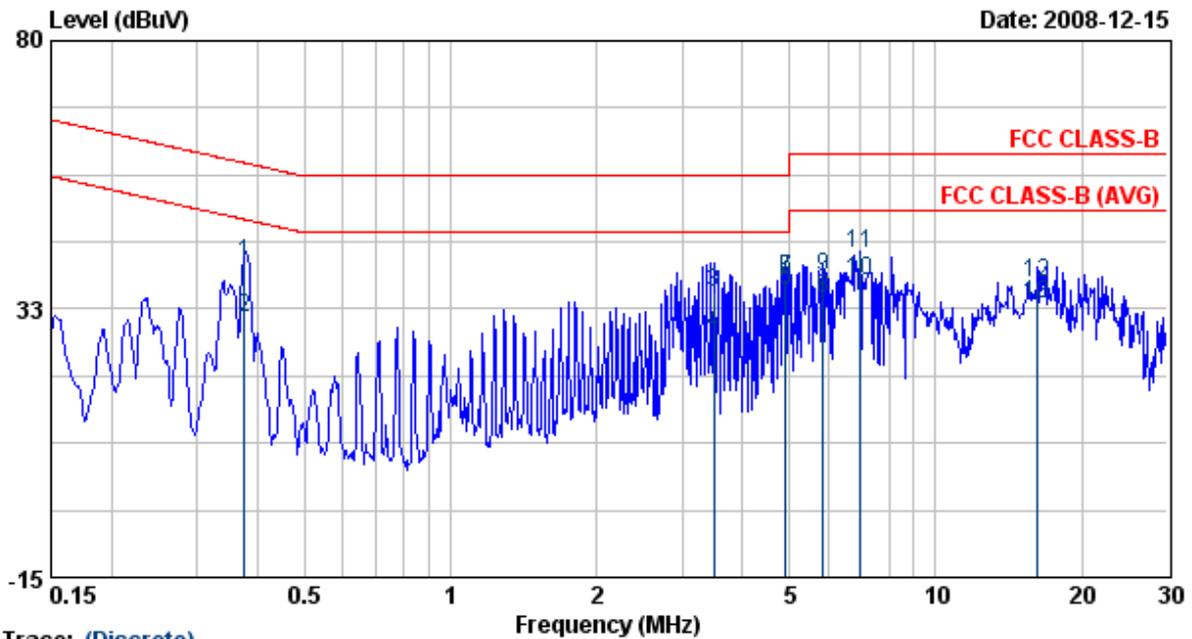
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.34	36.28	0.12	36.40	59.17	-22.77	QP
2	0.34	35.93	0.12	36.05	49.17	-13.12	AVERAGE
3	0.38	40.68	0.12	40.80	58.22	-17.42	QP
4	0.38	38.92	0.12	39.04	48.22	-9.18	AVERAGE
5	2.20	33.29	0.24	33.54	56.00	-22.46	QP
6	2.20	32.84	0.24	33.08	46.00	-12.92	AVERAGE
7	3.30	33.30	0.30	33.60	46.00	-12.40	AVERAGE
8	3.30	34.97	0.30	35.27	56.00	-20.73	QP
9	6.67	27.13	0.34	27.47	50.00	-22.53	AVERAGE
10	6.67	30.44	0.34	30.78	60.00	-29.22	QP
11	7.71	34.54	0.35	34.89	50.00	-15.11	AVERAGE
12	7.71	35.52	0.35	35.87	60.00	-24.13	QP

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
4. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



Trace: (Discrete)

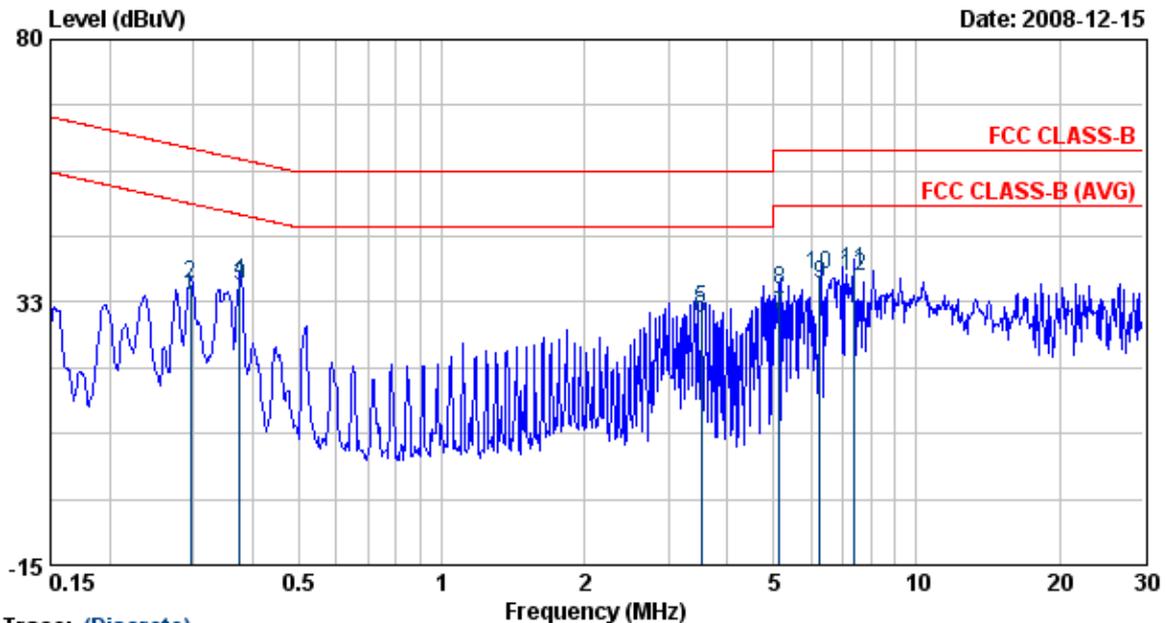
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.38	40.42	0.15	40.57	58.37	-17.80	QP
2	0.38	30.91	0.15	31.06	48.37	-17.31	AVERAGE
3	3.48	35.21	0.29	35.50	56.00	-20.50	QP
4	3.48	27.90	0.29	28.18	46.00	-17.82	AVERAGE
5	4.91	35.48	0.32	35.81	46.00	-10.19	AVERAGE
6	4.91	37.51	0.32	37.83	56.00	-18.17	QP
7	4.91	37.38	0.32	37.70	56.00	-18.30	QP
8	5.87	34.11	0.34	34.45	50.00	-15.55	AVERAGE
9	5.87	37.73	0.34	38.08	60.00	-21.92	QP
10	6.97	37.26	0.36	37.62	50.00	-12.38	AVERAGE
11	6.97	41.97	0.36	42.33	60.00	-17.67	QP
12	16.23	36.56	0.50	37.06	60.00	-22.94	QP
13	16.23	32.87	0.50	33.37	50.00	-16.63	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
4. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 4	: 802.11a, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



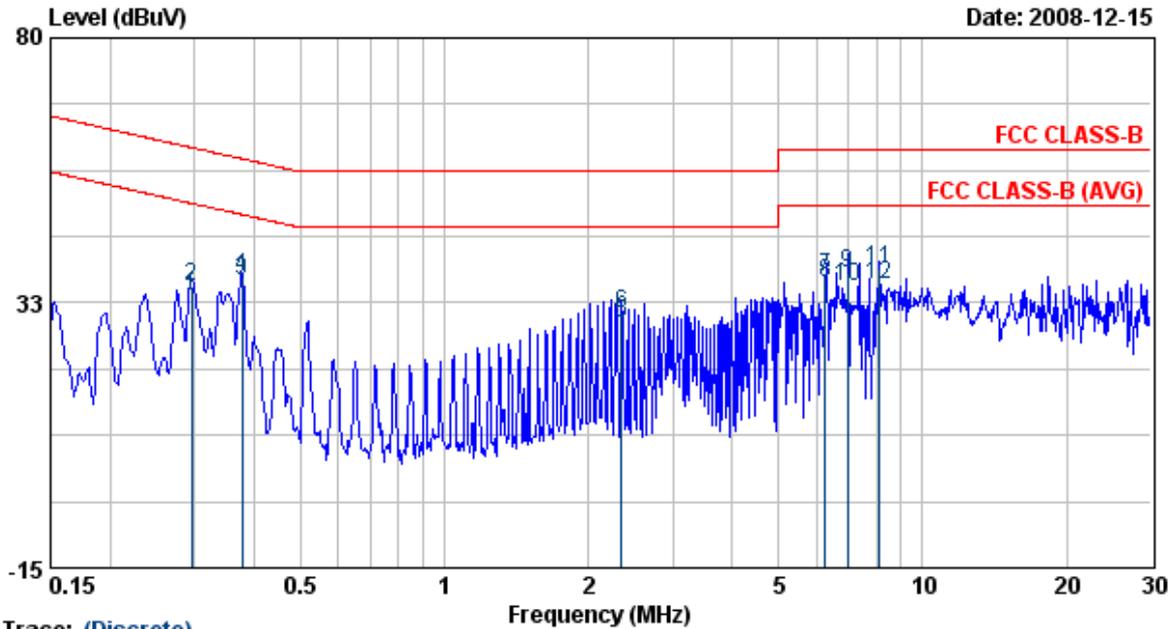
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.30	33.62	0.12	33.75	50.37	-16.62	AVERAGE
2	0.30	35.50	0.12	35.62	60.37	-24.74	QP
3	0.38	35.17	0.12	35.29	48.37	-13.08	AVERAGE
4	0.38	35.88	0.12	36.00	58.37	-22.37	QP
5	3.52	31.00	0.30	31.31	56.00	-24.69	QP
6	3.52	29.37	0.30	29.67	46.00	-16.33	AVERAGE
7	5.15	29.83	0.33	30.16	50.00	-19.84	AVERAGE
8	5.15	34.35	0.33	34.68	60.00	-25.32	QP
9	6.25	35.44	0.34	35.78	50.00	-14.22	AVERAGE
10	6.25	37.06	0.34	37.40	60.00	-22.60	QP
11	7.36	38.00	0.35	38.34	60.00	-21.66	QP
12	7.36	36.91	0.35	37.26	50.00	-12.74	AVERAGE

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. According to technical experiences, all spurious emission of 802.11a mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
  4. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 4	: 802.11a, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



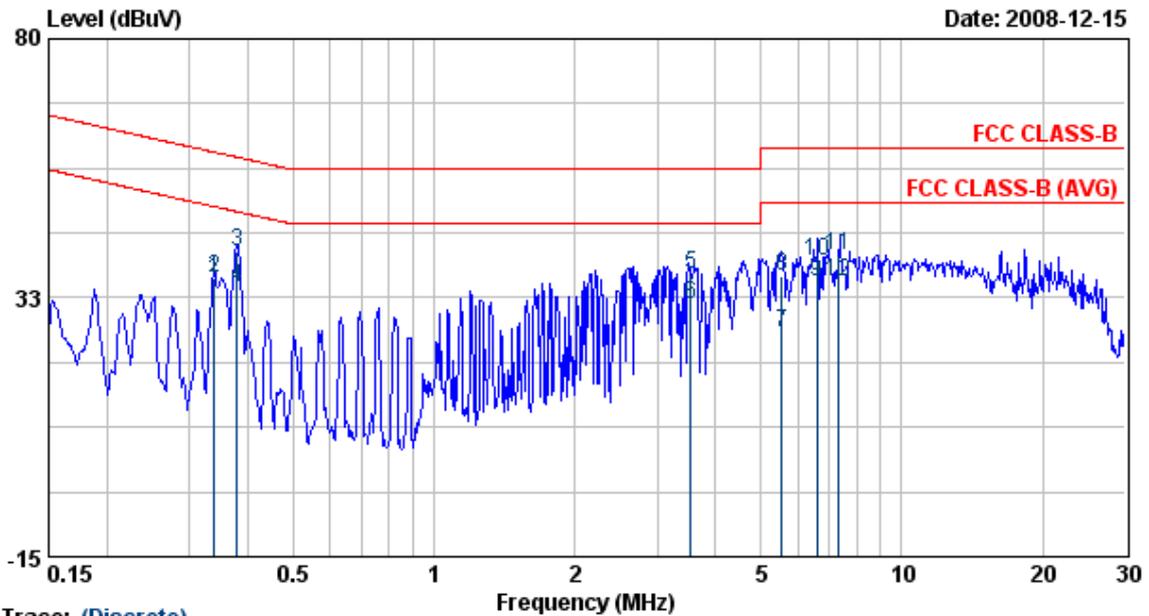
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.30	33.65	0.14	33.79	50.35	-16.56	AVERAGE
2	0.30	35.25	0.14	35.39	60.35	-24.95	QP
3	0.38	36.25	0.15	36.40	48.32	-11.92	AVERAGE
4	0.38	37.08	0.15	37.22	58.32	-21.10	QP
5	2.34	28.80	0.25	29.04	46.00	-16.96	AVERAGE
6	2.34	30.50	0.25	30.75	56.00	-25.25	QP
7	6.25	36.82	0.35	37.17	60.00	-22.83	QP
8	6.25	35.74	0.35	36.09	50.00	-13.91	AVERAGE
9	6.98	37.39	0.36	37.75	60.00	-22.25	QP
10	6.98	35.21	0.36	35.57	50.00	-14.43	AVERAGE
11	8.09	38.06	0.38	38.43	60.00	-21.57	QP
12	8.09	35.33	0.38	35.71	50.00	-14.29	AVERAGE

- Remarks:
- Level = Read Level + Factor
  - Factor = LISN(ISN) Factor + Cable Loss
  - According to technical experiences, all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
  - The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



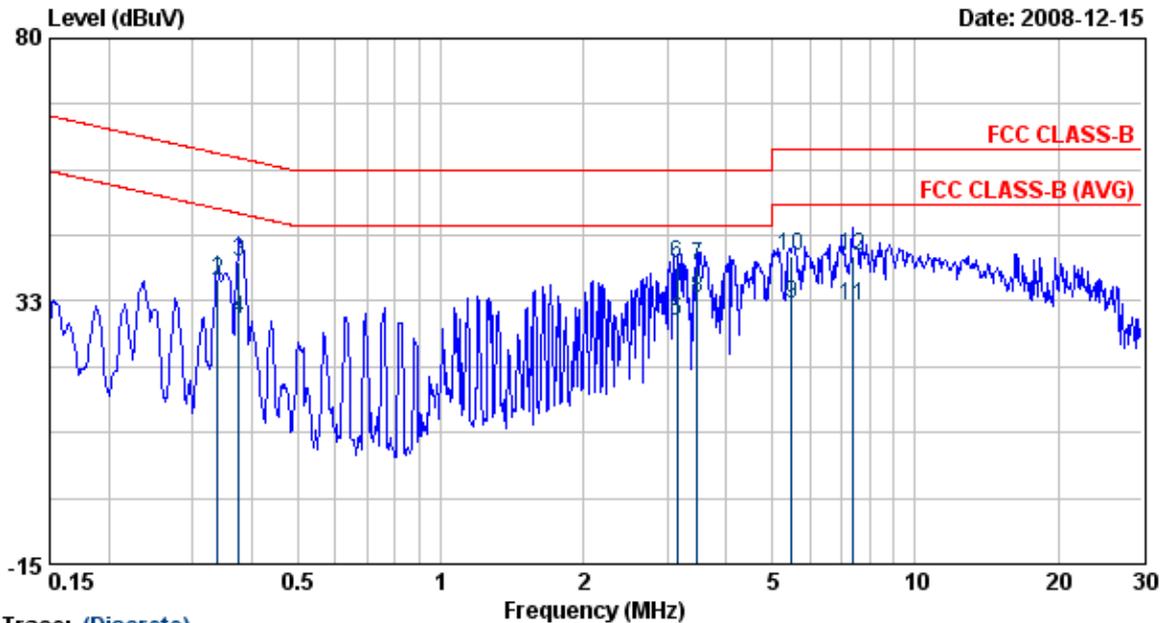
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.34	35.70	0.12	35.82	49.22	-13.39	AVERAGE
2	0.34	35.94	0.12	36.06	59.22	-23.16	QP
3	0.38	40.94	0.12	41.06	58.30	-17.23	QP
4	0.38	34.28	0.12	34.40	48.30	-13.90	AVERAGE
5	3.53	36.38	0.30	36.69	56.00	-19.31	QP
6	3.53	30.92	0.30	31.23	46.00	-14.77	AVERAGE
7	5.54	25.90	0.33	26.23	50.00	-23.77	AVERAGE
8	5.54	36.05	0.33	36.39	60.00	-23.61	QP
9	6.60	35.18	0.34	35.52	50.00	-14.48	AVERAGE
10	6.60	39.02	0.34	39.37	60.00	-20.63	QP
11	7.33	39.77	0.35	40.11	60.00	-19.89	QP
12	7.33	34.94	0.35	35.29	50.00	-14.71	AVERAGE

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
  4. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



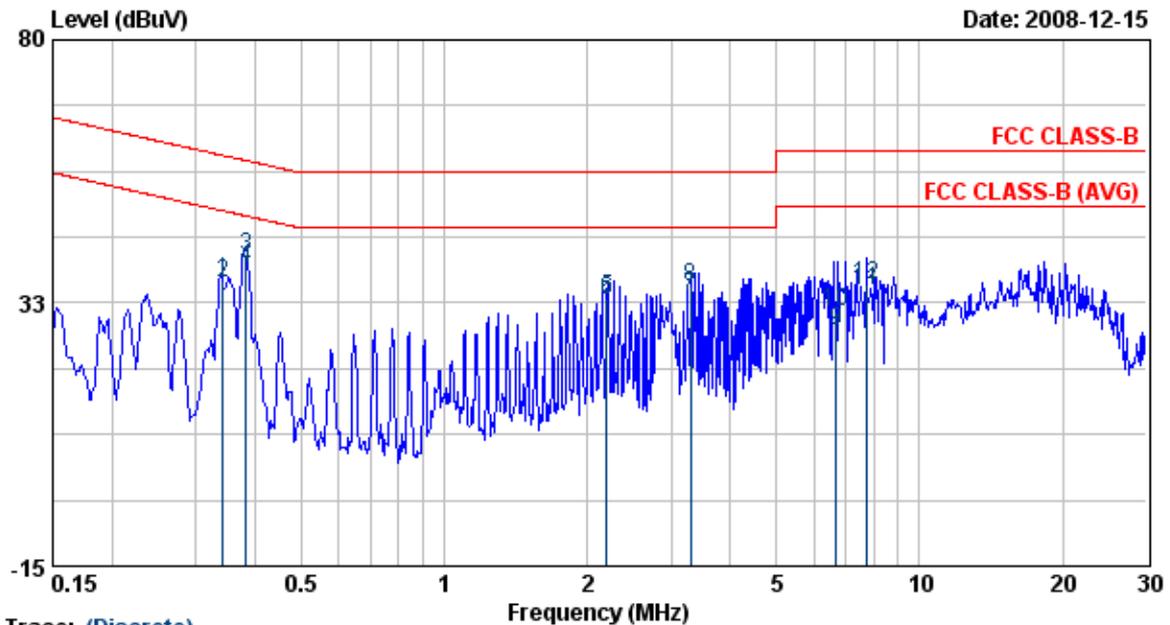
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.34	36.45	0.15	36.59	59.24	-22.65	QP
2	0.34	36.09	0.15	36.24	49.24	-13.00	AVERAGE
3	0.38	39.53	0.15	39.68	58.36	-18.68	QP
4	0.38	29.15	0.15	29.30	48.36	-19.06	AVERAGE
5	3.14	28.51	0.28	28.78	46.00	-17.22	AVERAGE
6	3.14	39.11	0.28	39.39	56.00	-16.61	QP
7	3.47	38.64	0.29	38.92	56.00	-17.08	QP
8	3.47	32.70	0.29	32.98	46.00	-13.02	AVERAGE
9	5.49	31.48	0.33	31.82	50.00	-18.18	AVERAGE
10	5.49	40.27	0.33	40.60	60.00	-19.40	QP
11	7.38	31.43	0.37	31.80	50.00	-18.20	AVERAGE
12	7.38	40.17	0.37	40.54	60.00	-19.46	QP

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
  4. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



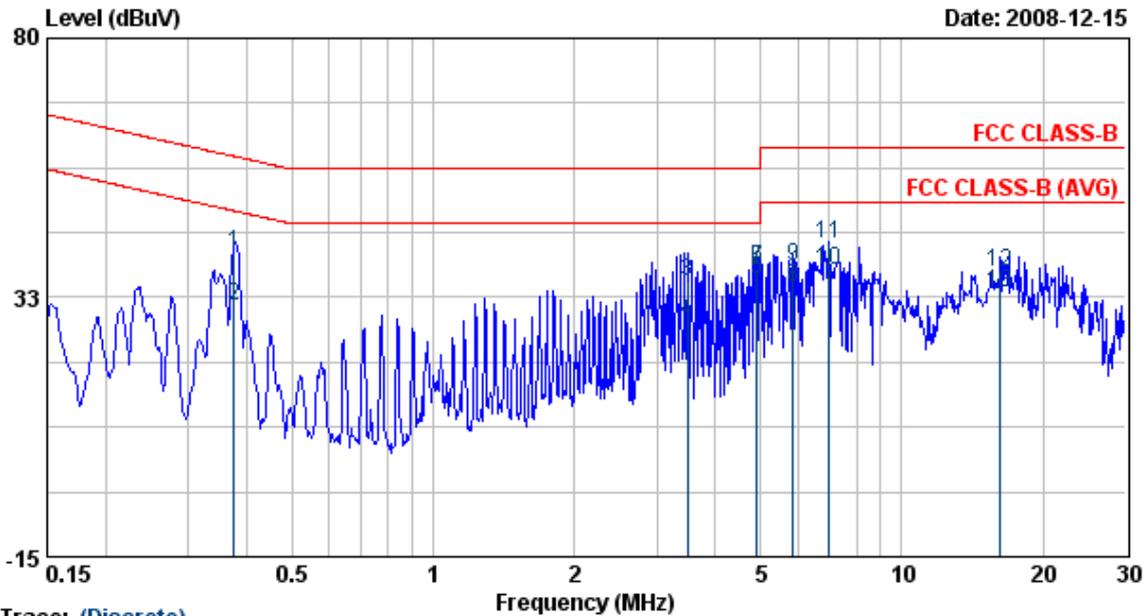
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.34	36.28	0.12	36.40	59.17	-22.77	QP
2	0.34	35.93	0.12	36.05	49.17	-13.12	AVERAGE
3	0.38	40.68	0.12	40.80	58.22	-17.42	QP
4	0.38	38.92	0.12	39.04	48.22	-9.18	AVERAGE
5	2.20	33.29	0.24	33.54	56.00	-22.46	QP
6	2.20	32.84	0.24	33.08	46.00	-12.92	AVERAGE
7	3.30	33.30	0.30	33.60	46.00	-12.40	AVERAGE
8	3.30	34.97	0.30	35.27	56.00	-20.73	QP
9	6.67	27.13	0.34	27.47	50.00	-22.53	AVERAGE
10	6.67	30.44	0.34	30.78	60.00	-29.22	QP
11	7.71	34.54	0.35	34.89	50.00	-15.11	AVERAGE
12	7.71	35.52	0.35	35.87	60.00	-24.13	QP

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
  4. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 23 °C
Memo	:	Humidity	: 52 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.38	40.42	0.15	40.57	58.37	-17.80	QP
2	0.38	30.91	0.15	31.06	48.37	-17.31	AVERAGE
3	3.48	35.21	0.29	35.50	56.00	-20.50	QP
4	3.48	27.90	0.29	28.18	46.00	-17.82	AVERAGE
5	4.91	35.48	0.32	35.81	46.00	-10.19	AVERAGE
6	4.91	37.51	0.32	37.83	56.00	-18.17	QP
7	4.91	37.38	0.32	37.70	56.00	-18.30	QP
8	5.87	34.11	0.34	34.45	50.00	-15.55	AVERAGE
9	5.87	37.73	0.34	38.08	60.00	-21.92	QP
10	6.97	37.26	0.36	37.62	50.00	-12.38	AVERAGE
11	6.97	41.97	0.36	42.33	60.00	-17.67	QP
12	16.23	36.56	0.50	37.06	60.00	-22.94	QP
13	16.23	32.87	0.50	33.37	50.00	-16.63	AVERAGE

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
  4. The data is worse case.

Test engineer: Ben



### 4.6 Test Photographs

Front View



Rear View





## 5. Test of Radiated Emission

### 5.1 Test Limit

Radiated emissions from 30 MHz to 40 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated ( $\mu$ V / M)	Radiated (dB $\mu$ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

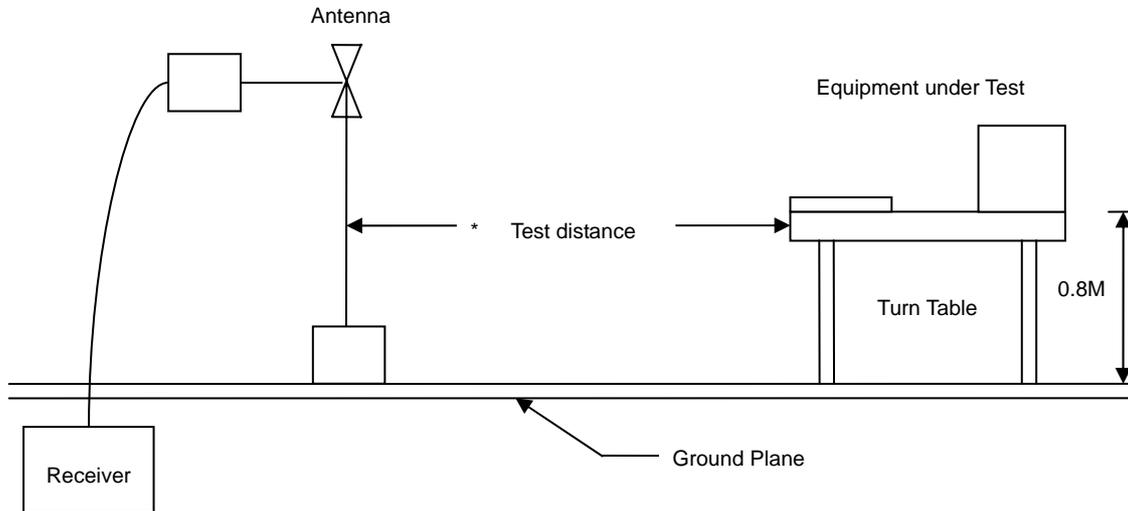
Frequency (MHz)	Distance Meters	Radiated (dB $\mu$ V/ M)
30-230	10	30
230-1000	10	37

### 5.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.



### 5.3 Typical Test Setup



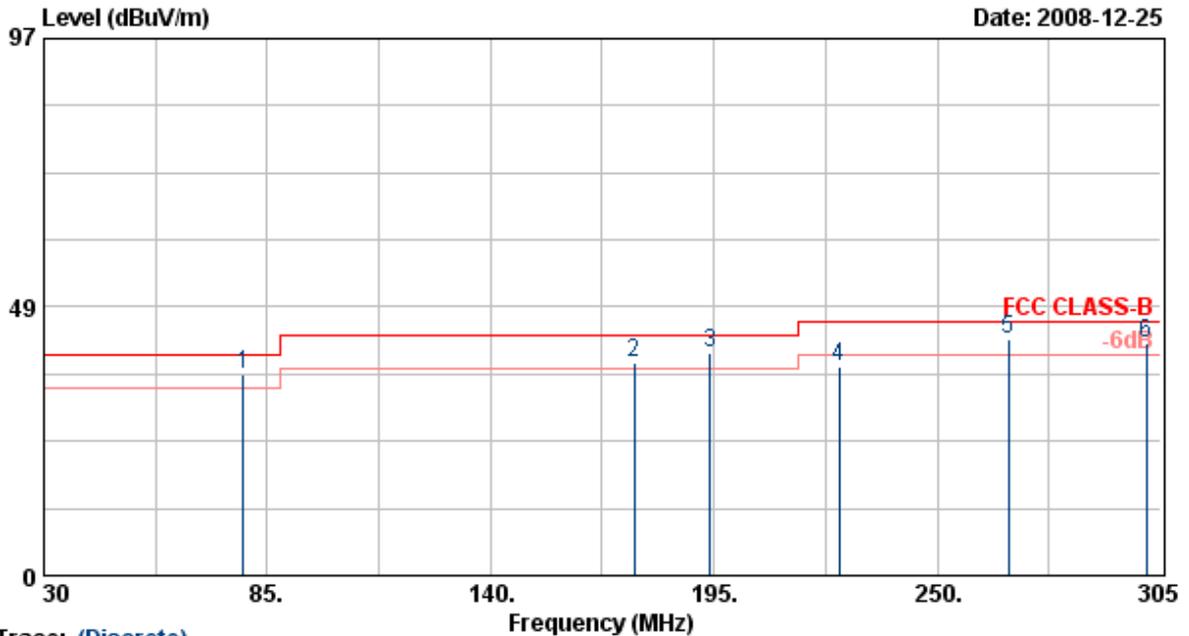
### 5.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Bilog Antenna	CBL6112B	Schaffner	2840	2008/05/15	2009/05/14
Signal Generator	8648B	HP	3629U00612	2008/10/08	2009/10/07
Amplifier	8447D	Agilent	2944A10593	2008/05/26	2009/05/25
EMI Receiver	8546A	HP	3807A00454	2008/08/07	2009/08/06
Spectrum	FSP40	R&S	100047	2008/02/22	2009/02/21
Horn Antenna	3115	EMCO	31589	2008/04/01	2009/03/30
Amplifier	8449B	Agilent	3008A01954	2008/01/24	2009/01/23



5.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

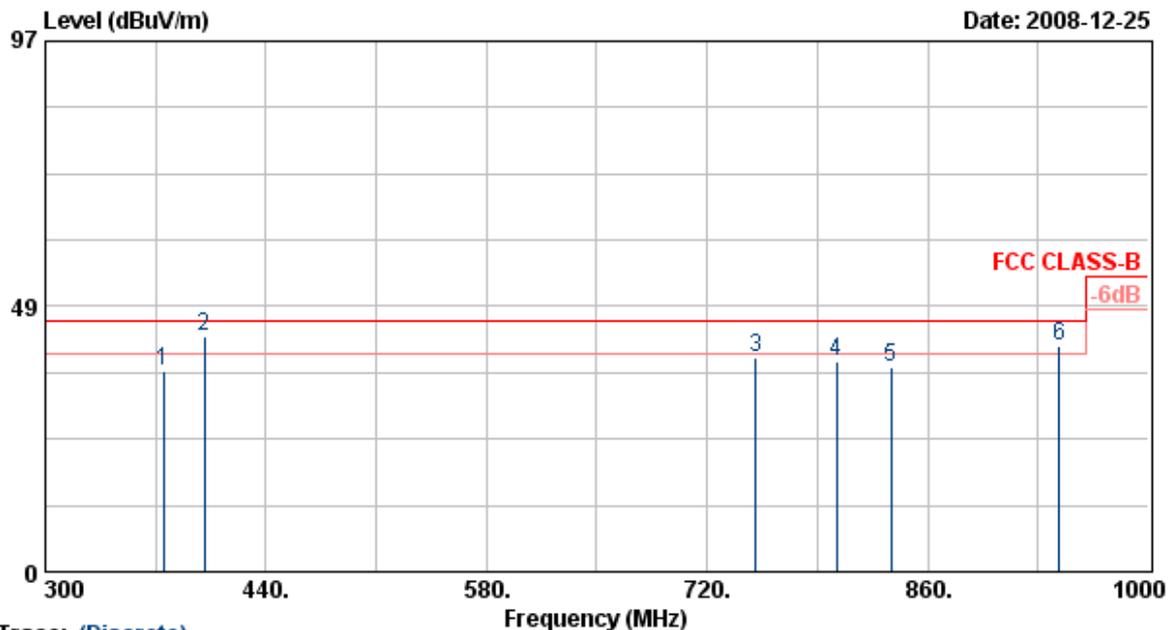
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	79.23	46.68	-10.37	36.31	40.00	-3.69	QP	100	200
2	175.48	45.58	-7.07	38.51	43.50	-4.99	QP	100	200
3	194.18	47.39	-7.13	40.26	43.50	-3.24	QP	100	200
4	225.80	43.29	-5.53	37.76	46.00	-8.24	Peak	100	200
5	267.60	51.34	-8.61	42.73	46.00	-3.27	QP	100	200
6	301.43	47.15	-5.10	42.05	46.00	-3.95	QP	100	200

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

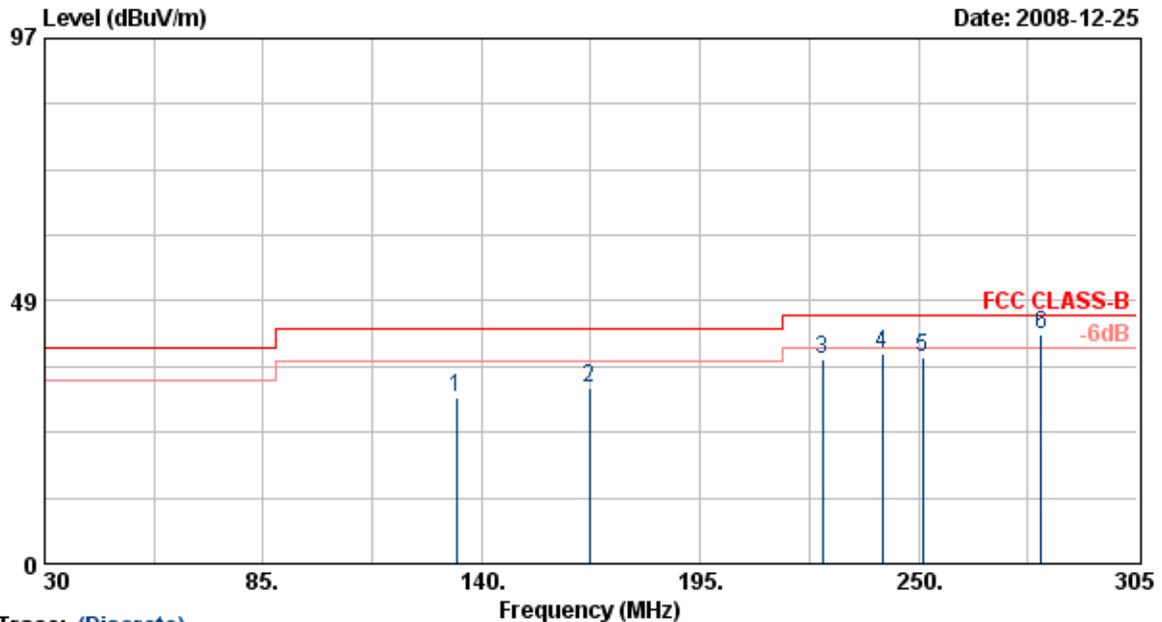
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	374.90	40.36	-3.80	36.56	46.00	-9.44	Peak	100	176
2	400.80	46.97	-4.06	42.91	46.00	-3.09	QP	100	176
3	750.80	33.38	5.70	39.08	46.00	-6.92	Peak	100	176
4	801.90	35.54	2.96	38.50	46.00	-7.50	Peak	100	176
5	836.90	30.02	7.53	37.55	46.00	-8.45	Peak	100	176
6	943.30	32.19	9.22	41.41	46.00	-4.59	QP	100	176

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

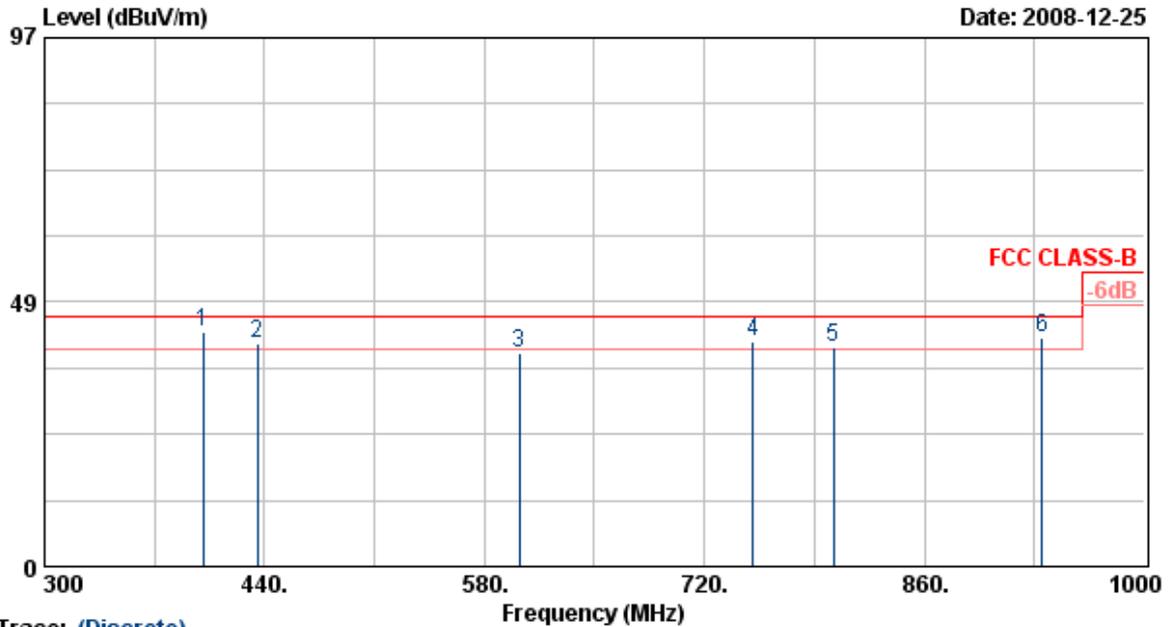
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.72	-14.90	30.82	43.50	-12.68	Peak	100	141
2	167.23	43.63	-11.11	32.52	43.50	-10.98	Peak	100	141
3	225.80	47.53	-9.93	37.60	46.00	-8.40	Peak	100	141
4	240.93	48.77	-10.09	38.68	46.00	-7.32	Peak	100	141
5	251.10	47.85	-9.65	38.20	46.00	-7.80	Peak	100	141
6	280.80	49.03	-6.66	42.37	46.00	-3.63	QP	100	141

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

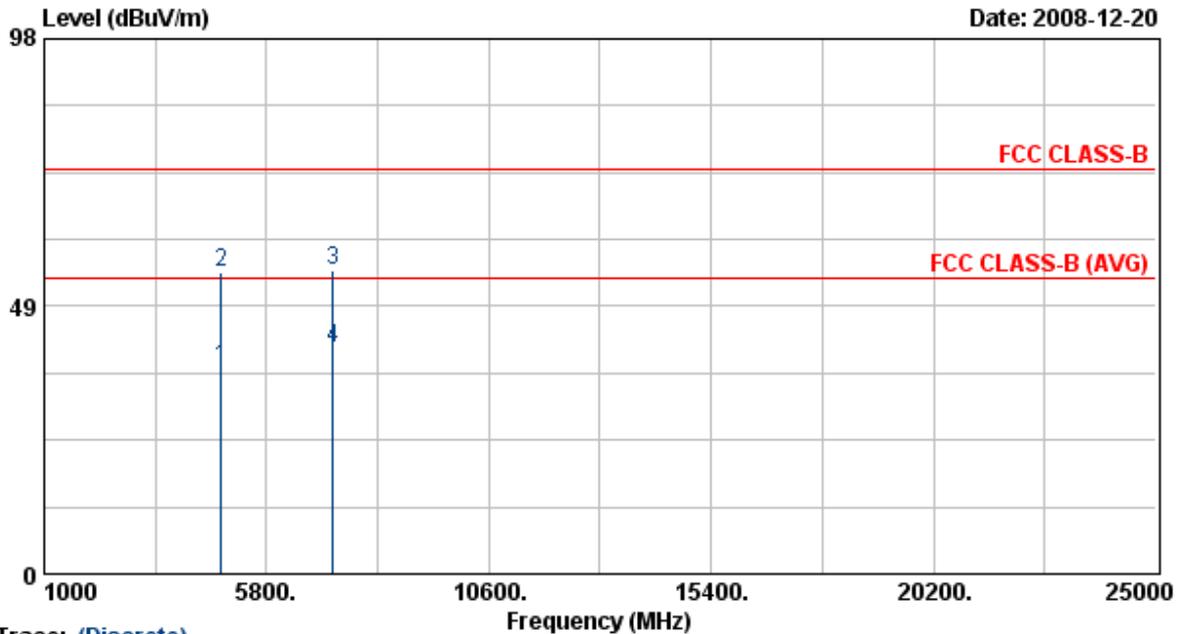
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	45.13	-2.13	43.00	46.00	-3.00	QP	150	164
2	435.80	42.58	-1.59	40.99	46.00	-5.01	QP	150	164
3	602.40	36.95	2.25	39.20	46.00	-6.80	Peak	150	164
4	750.80	35.74	5.43	41.17	46.00	-4.83	QP	150	164
5	801.90	35.35	4.85	40.20	46.00	-5.80	QP	150	164
6	934.90	34.75	7.31	42.06	46.00	-3.94	QP	150	164

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH1	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

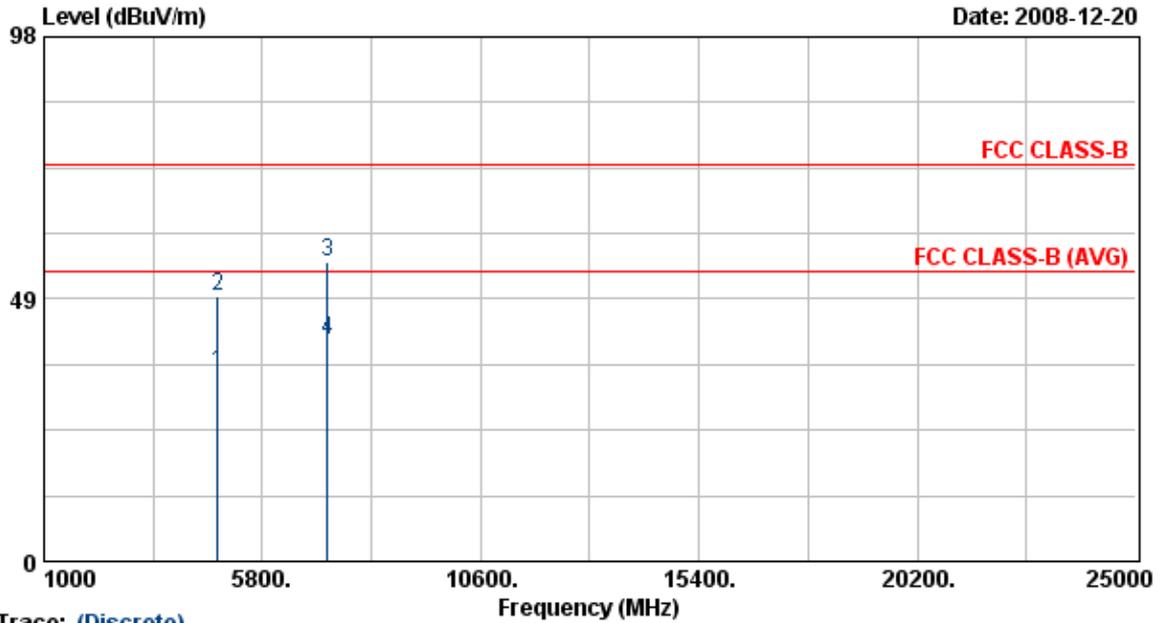
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.98	30.46	7.17	37.63	54.00	-16.37	Average	100	163
2	4824.14	48.23	7.17	55.39	74.00	-18.61	Peak	100	163
3	7236.66	44.60	11.04	55.64	74.00	-18.36	Peak	100	163
4	7238.06	30.22	11.05	41.26	54.00	-12.74	Average	100	163

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH1	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

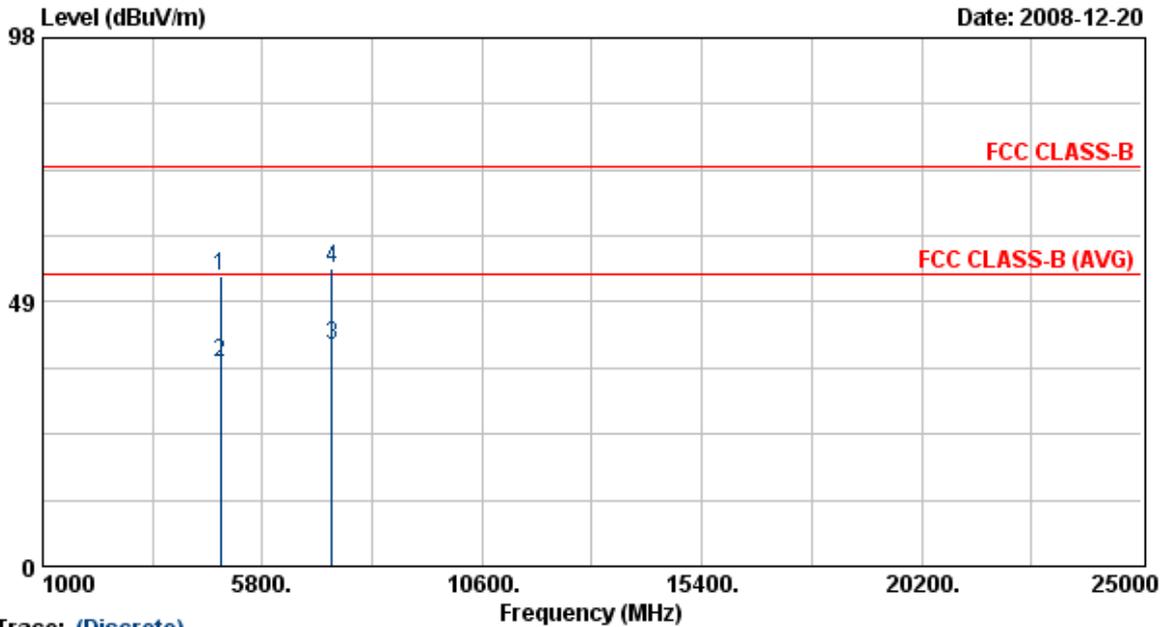
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	28.18	7.17	35.35	54.00	-18.65	Average	100	163
2	4824.10	42.21	7.17	49.38	74.00	-24.62	Peak	100	163
3	7233.82	44.80	11.03	55.82	74.00	-18.18	Peak	100	163
4	7236.80	30.23	11.04	41.28	54.00	-12.72	Average	100	163

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

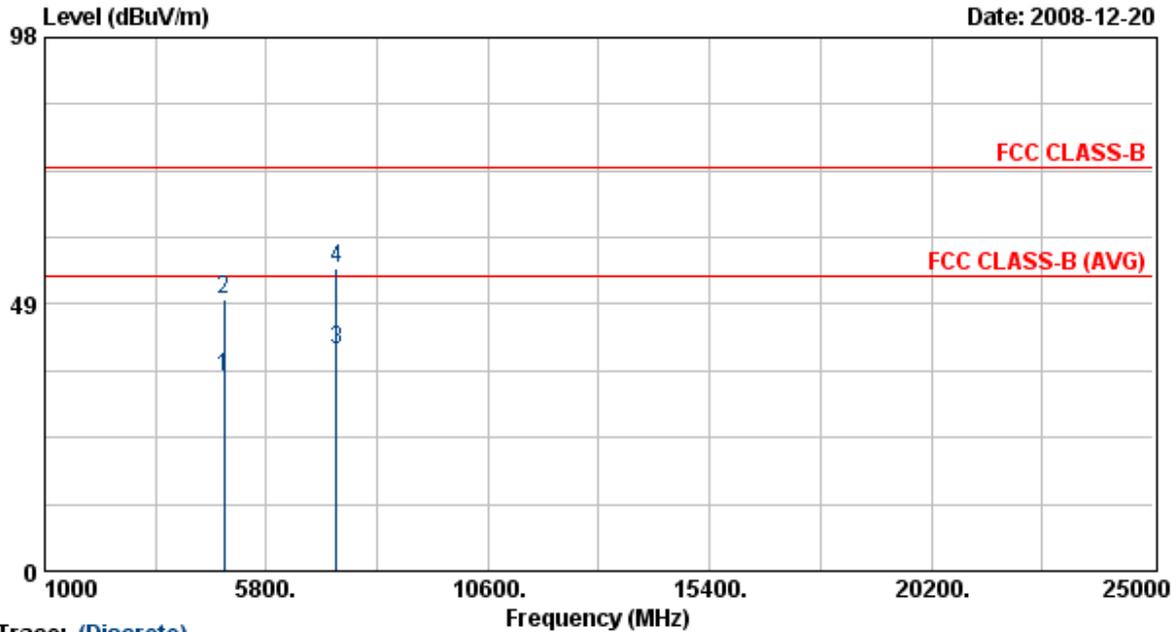
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.78	46.60	7.33	53.92	74.00	-20.08	Peak	100	186
2	4873.88	30.47	7.33	37.80	54.00	-16.20	Average	100	186
3	7308.68	29.44	11.39	40.82	54.00	-13.18	Average	100	186
4	7314.62	43.86	11.41	55.27	74.00	-18.73	Peak	100	186

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

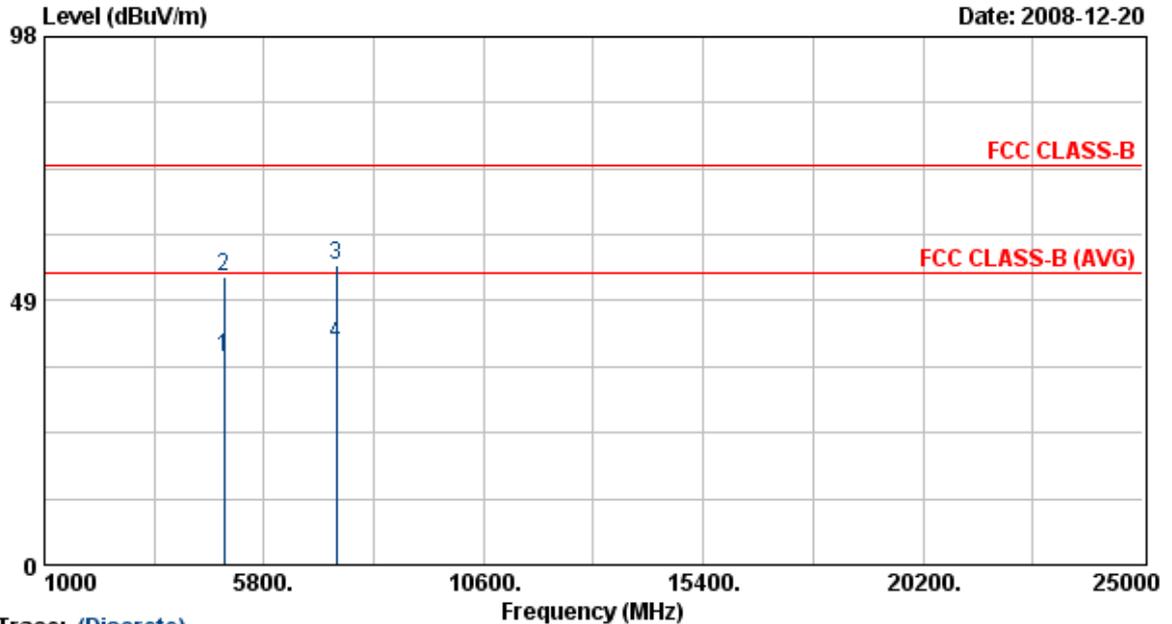
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.90	28.48	7.33	35.81	54.00	-18.19	Average	100	206
2	4873.94	42.61	7.33	49.94	74.00	-24.06	Peak	100	206
3	7309.06	29.38	11.39	40.76	54.00	-13.24	Average	100	206
4	7313.12	44.30	11.41	55.70	74.00	-18.30	Peak	100	206

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH11	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

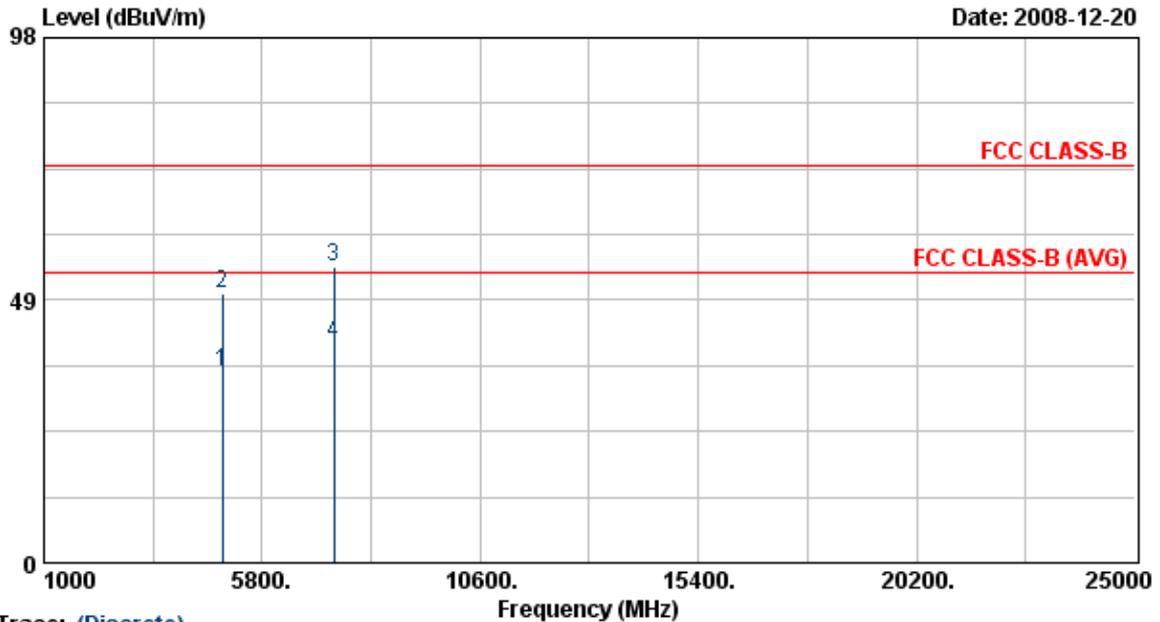
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.48	31.09	7.49	38.57	54.00	-15.43	Average	100	185
2	4924.18	46.03	7.49	53.52	74.00	-20.48	Peak	100	185
3	7386.24	43.80	11.76	55.56	74.00	-18.44	Peak	100	185
4	7389.26	29.18	11.77	40.95	54.00	-13.05	Average	100	185

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH11	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

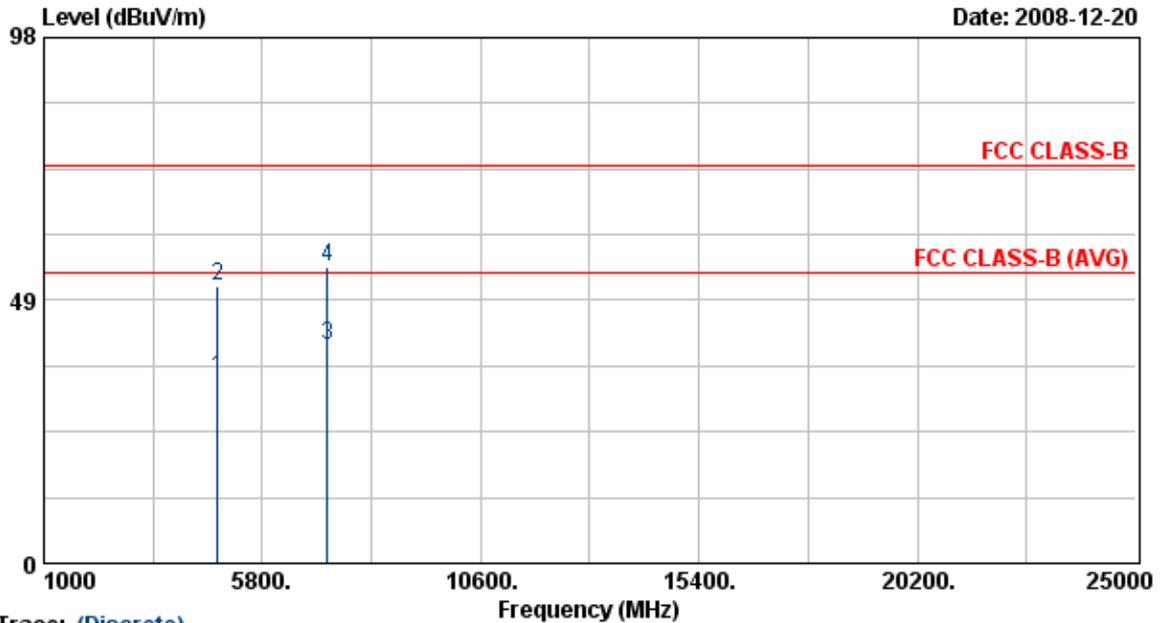
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.50	28.07	7.49	35.56	54.00	-18.44	Average	100	155
2	4924.20	42.70	7.49	50.19	74.00	-23.81	Peak	100	360
3	7388.34	43.55	11.77	55.32	74.00	-18.68	Peak	100	155
4	7388.64	29.18	11.77	40.95	54.00	-13.05	Average	100	155

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

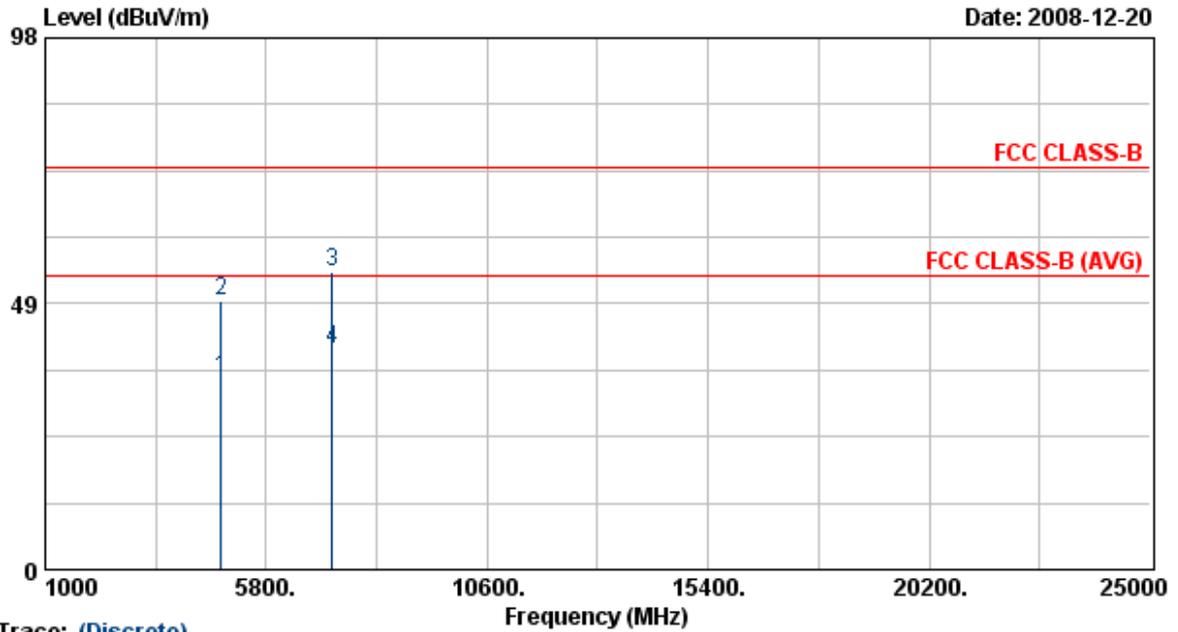
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.50	27.48	7.17	34.65	54.00	-19.35	Average	100	183
2	4825.78	44.61	7.17	51.78	74.00	-22.22	Peak	100	183
3	7233.36	29.70	11.03	40.72	54.00	-13.28	Average	100	183
4	7235.90	44.09	11.04	55.13	74.00	-18.87	Peak	100	183

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

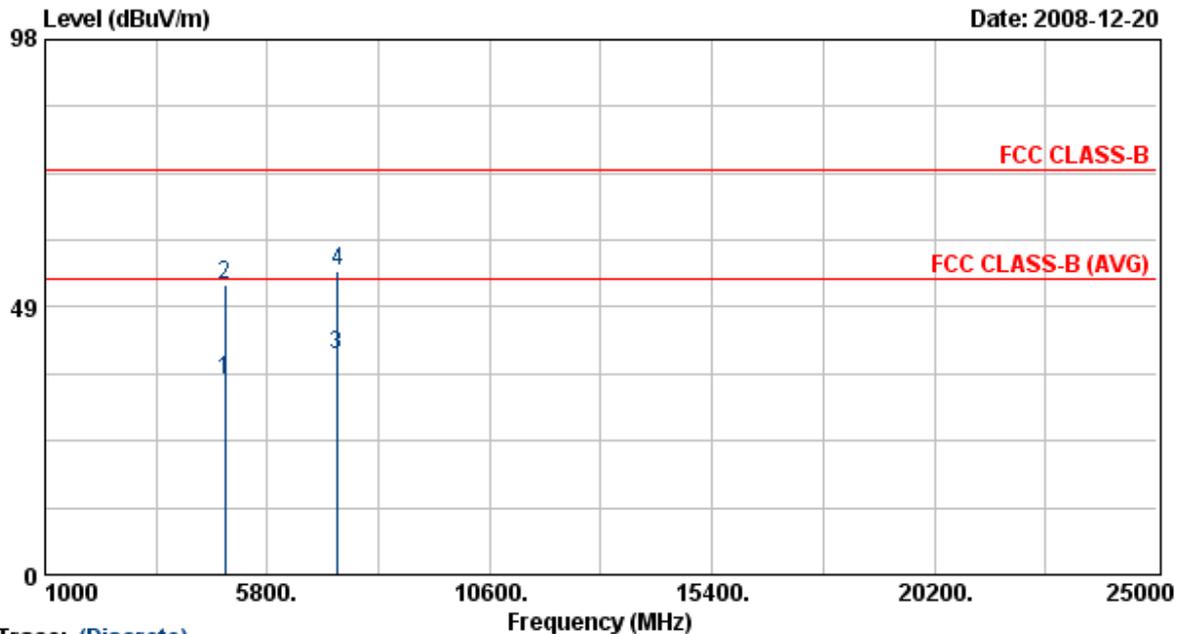
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4822.00	28.20	7.16	35.36	54.00	-18.64	Average	100	209
2	4824.38	42.35	7.17	49.52	74.00	-24.48	Peak	100	209
3	7232.28	44.02	11.02	55.04	74.00	-18.96	Peak	100	209
4	7232.36	29.60	11.02	40.62	54.00	-13.38	Average	100	209

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

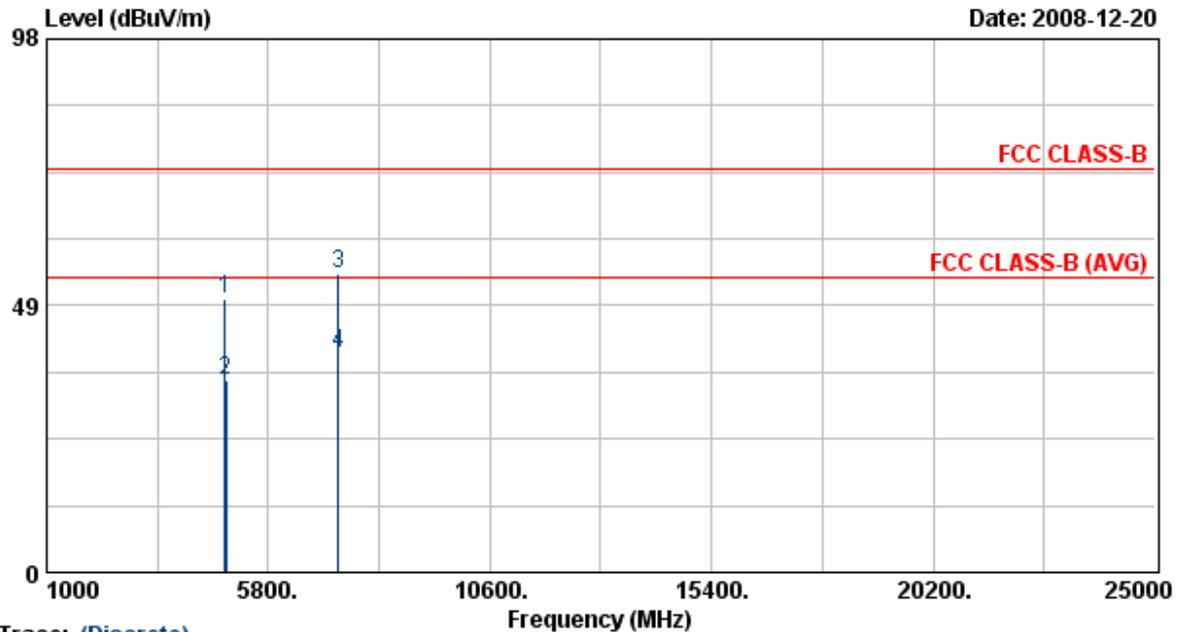
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.88	28.16	7.33	35.49	54.00	-18.51	Average	100	184
2	4875.40	45.76	7.33	53.09	74.00	-20.91	Peak	100	184
3	7306.00	28.83	11.37	40.20	54.00	-13.80	Average	100	184
4	7313.84	44.31	11.41	55.72	74.00	-18.28	Peak	100	184

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

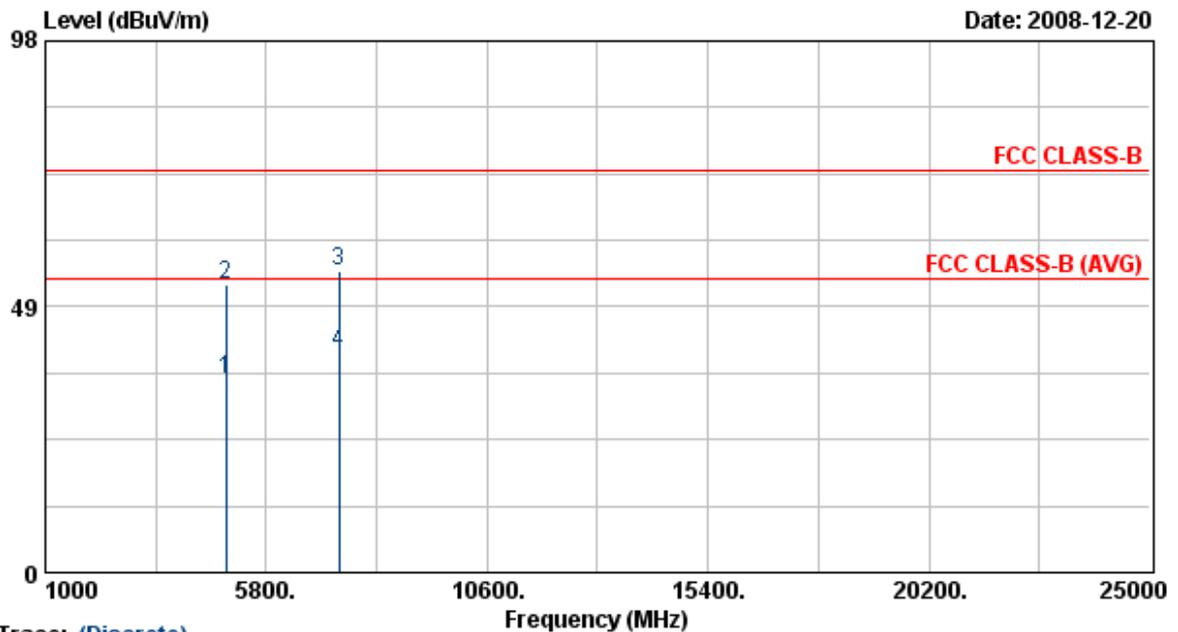
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4870.70	42.92	7.32	50.24	74.00	-23.76	Peak	100	183
2	4873.70	27.82	7.33	35.15	54.00	-18.85	Average	100	183
3	7313.50	43.54	11.41	54.95	74.00	-19.05	Peak	100	183
4	7314.54	28.93	11.41	40.34	54.00	-13.66	Average	100	183

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH11	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

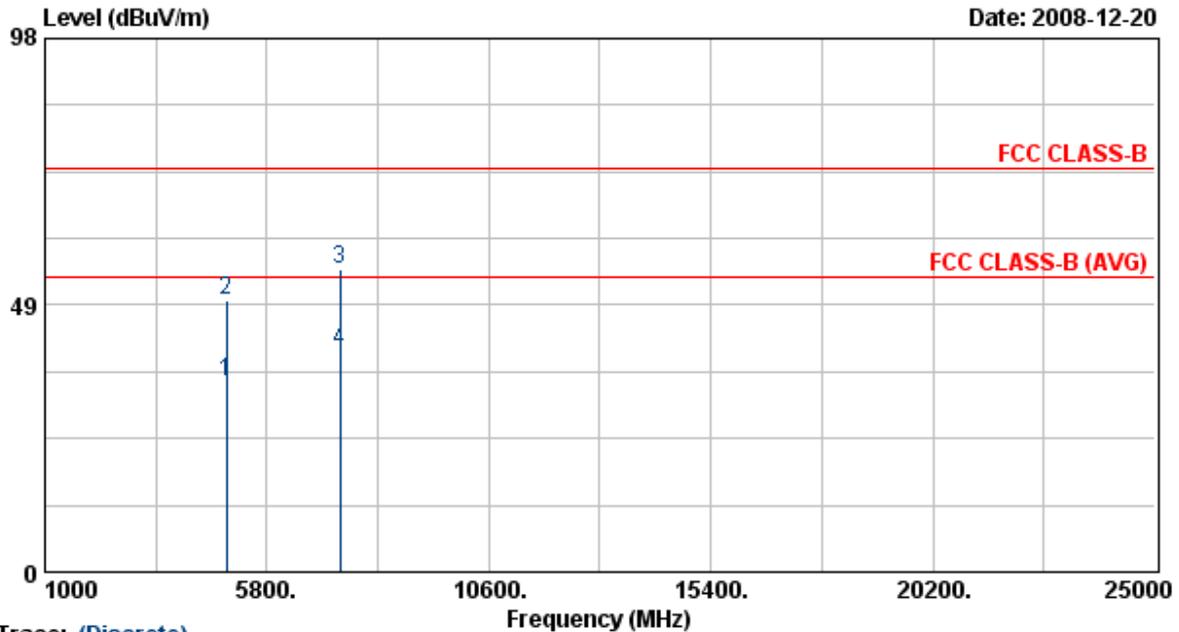
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.40	28.10	7.48	35.58	54.00	-18.42	Average	100	183
2	4925.30	45.51	7.49	53.01	74.00	-20.99	Peak	100	183
3	7389.18	43.72	11.77	55.49	74.00	-18.51	Peak	100	183
4	7389.22	29.00	11.77	40.77	54.00	-13.23	Average	100	183

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH11	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

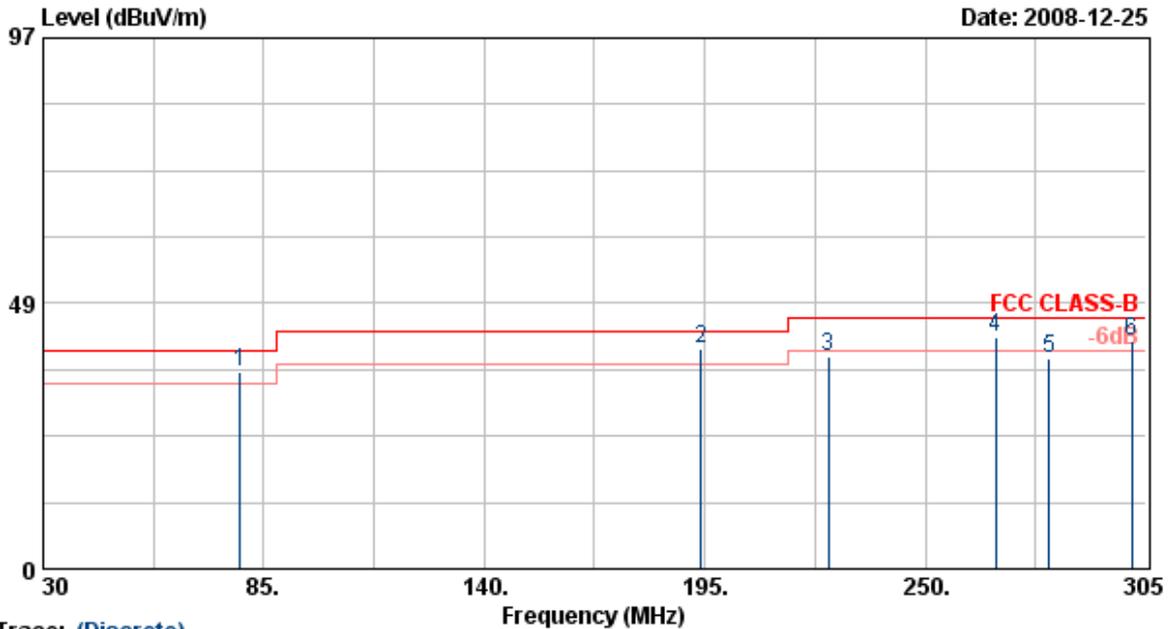
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4920.66	27.62	7.48	35.09	54.00	-18.91	Average	100	186
2	4922.12	42.49	7.48	49.97	74.00	-24.03	Peak	100	186
3	7381.60	43.75	11.73	55.48	74.00	-18.52	Peak	100	186
4	7389.28	29.01	11.77	40.78	54.00	-13.22	Average	100	186

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

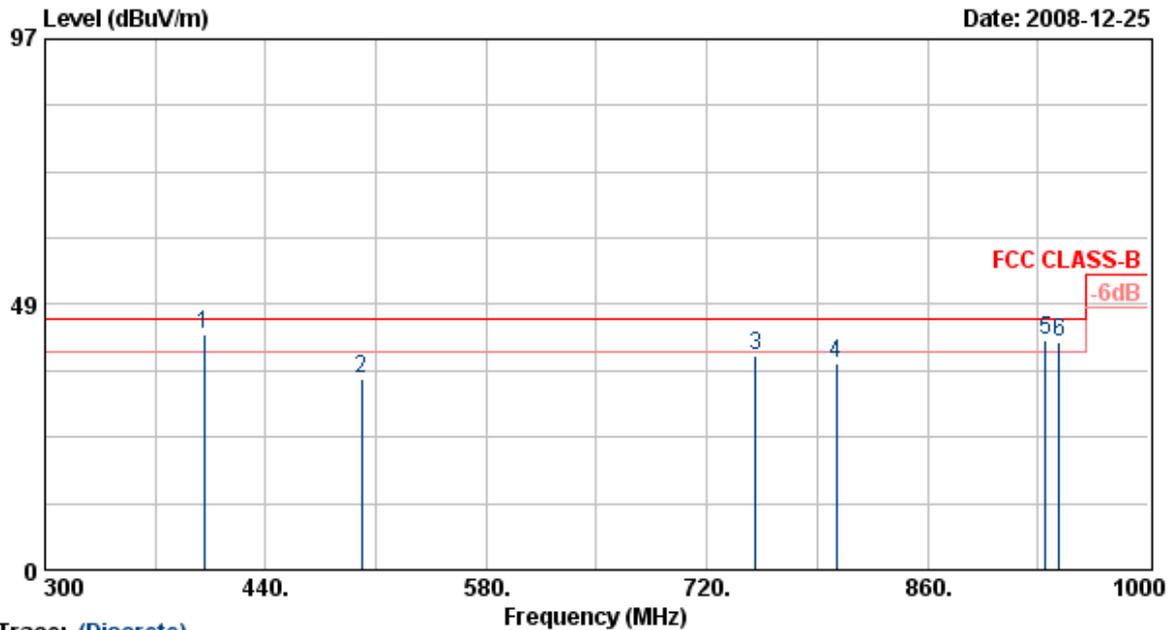
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	79.23	46.52	-10.37	36.15	40.00	-3.85	QP	100	213
2	194.18	47.19	-7.13	40.06	43.50	-3.44	QP	100	213
3	225.80	44.30	-5.53	38.77	46.00	-7.23	Peak	100	213
4	267.60	51.09	-8.61	42.48	46.00	-3.52	QP	100	213
5	280.80	47.19	-8.87	38.32	46.00	-7.68	Peak	100	213
6	301.43	46.64	-5.10	41.54	46.00	-4.46	QP	100	213

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

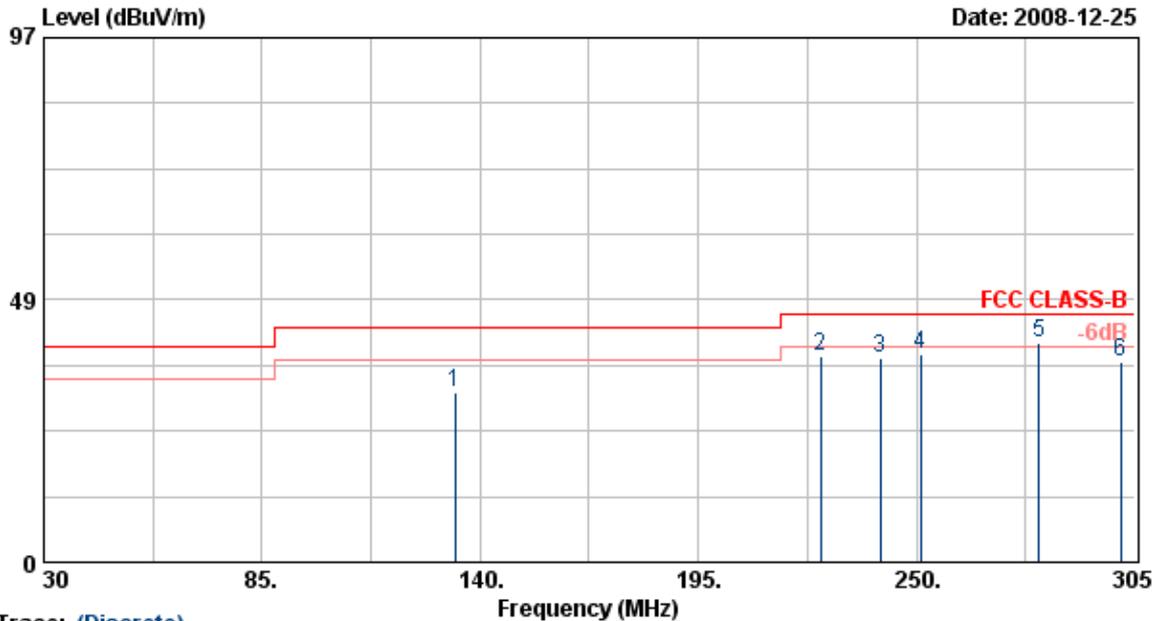
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	47.06	-4.06	43.00	46.00	-3.00	QP	100	197
2	500.90	37.67	-2.69	34.98	46.00	-11.02	Peak	100	197
3	750.80	33.62	5.70	39.32	46.00	-6.68	Peak	100	197
4	801.90	34.93	2.96	37.89	46.00	-8.11	Peak	100	197
5	934.90	32.17	9.69	41.86	46.00	-4.14	QP	100	197
6	943.30	32.47	9.22	41.69	46.00	-4.31	QP	100	197

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

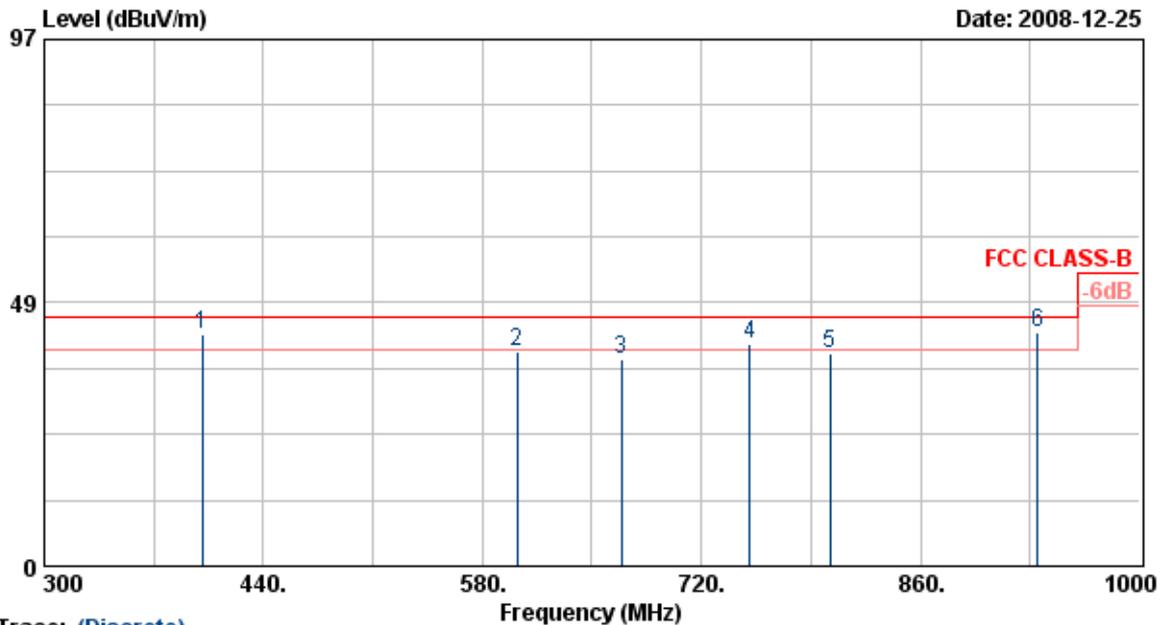
Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	133.68	46.20	-14.90	31.30	43.50	-12.20	Peak	150	127
2	225.80	47.90	-9.93	37.97	46.00	-8.03	Peak	150	127
3	240.93	47.76	-10.09	37.67	46.00	-8.33	Peak	150	127
4	251.10	48.05	-9.65	38.40	46.00	-7.60	Peak	150	127
5	280.80	47.19	-6.66	40.53	46.00	-5.47	QP	150	127
6	301.43	42.16	-5.02	37.14	46.00	-8.86	Peak	150	127

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

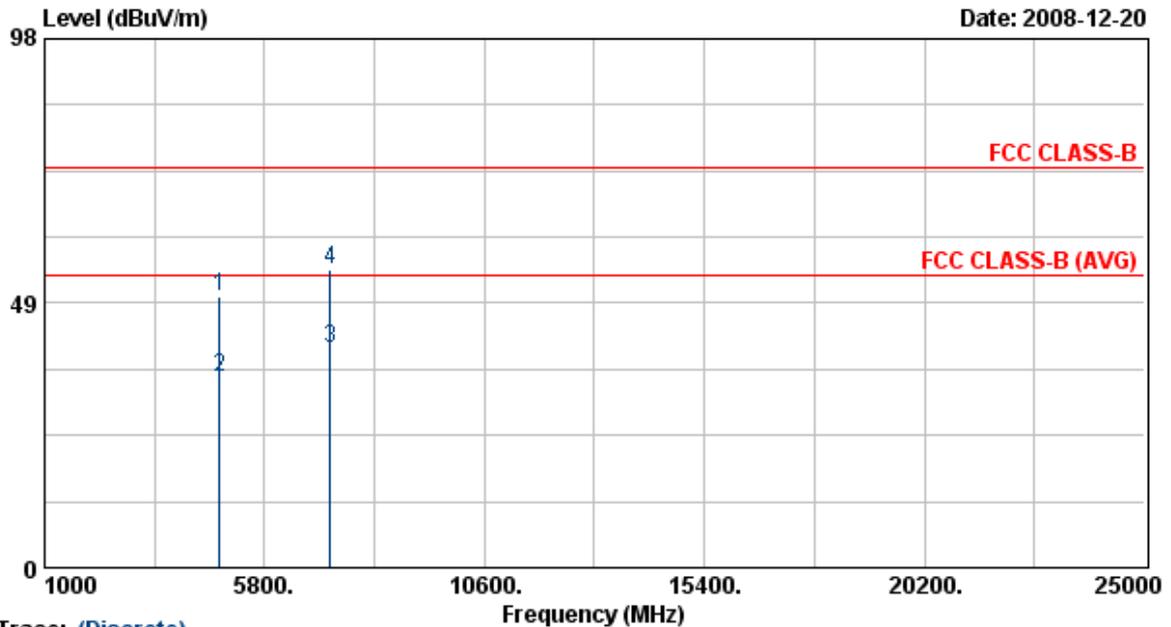
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	44.65	-2.13	42.52	46.00	-3.48	QP	150	170
2	602.40	37.26	2.25	39.51	46.00	-6.49	Peak	150	170
3	668.90	35.12	2.92	38.04	46.00	-7.96	Peak	150	170
4	750.80	35.56	5.43	40.99	46.00	-5.01	QP	150	170
5	801.90	34.25	4.85	39.10	46.00	-6.90	Peak	150	170
6	934.90	35.56	7.31	42.87	46.00	-3.13	QP	150	170

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

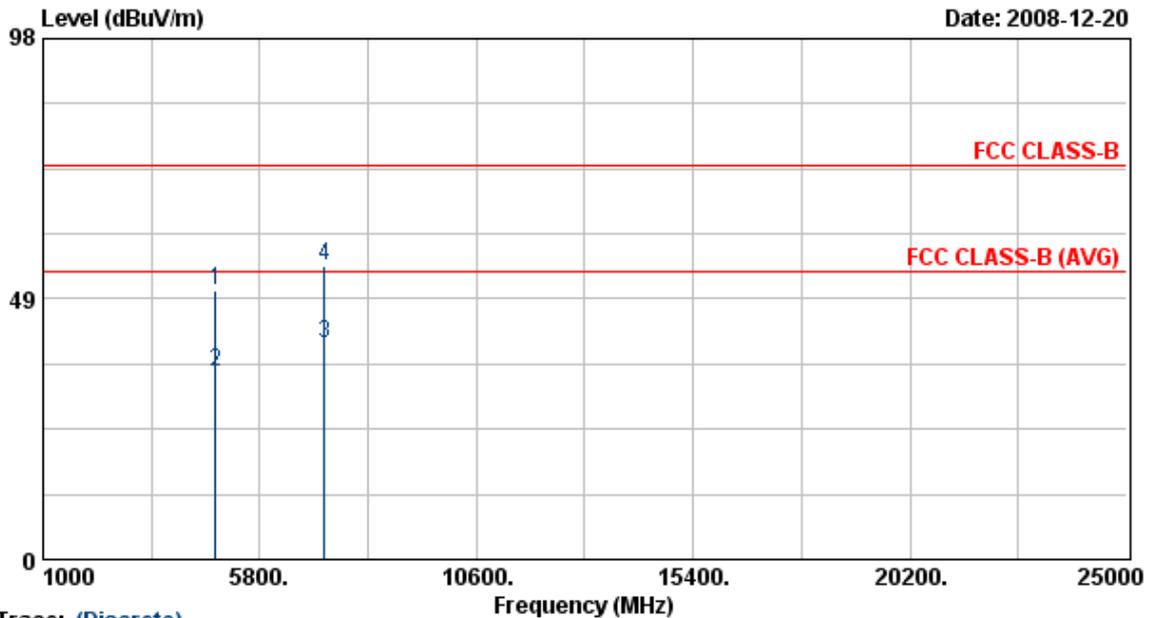
Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	4821.48	43.12	7.16	50.28	74.00	-23.72	Peak	100	187
2	4827.14	28.14	7.18	35.32	54.00	-18.68	Average	100	187
3	7234.96	29.56	11.03	40.59	54.00	-13.41	Average	100	187
4	7237.82	44.36	11.05	55.41	74.00	-18.59	Peak	100	187

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

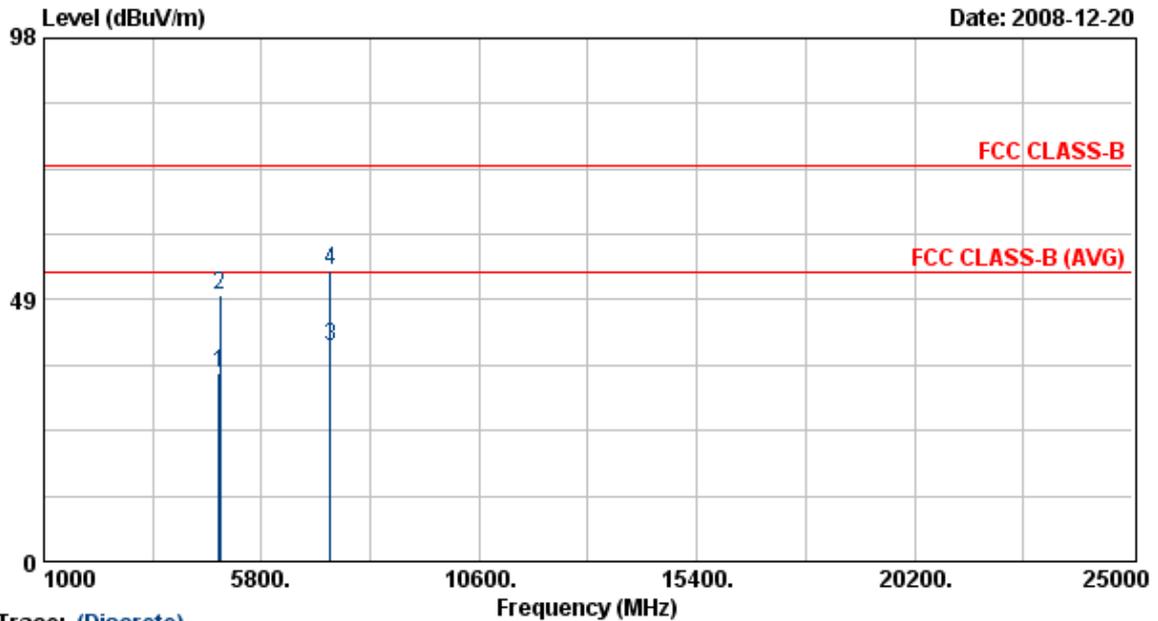
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4821.44	43.27	7.16	50.43	74.00	-23.57	Peak	100	181
2	4821.98	28.14	7.16	35.30	54.00	-18.70	Average	100	181
3	7232.36	29.55	11.02	40.57	54.00	-13.43	Average	100	181
4	7237.70	44.10	11.05	55.14	74.00	-18.86	Peak	100	181

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

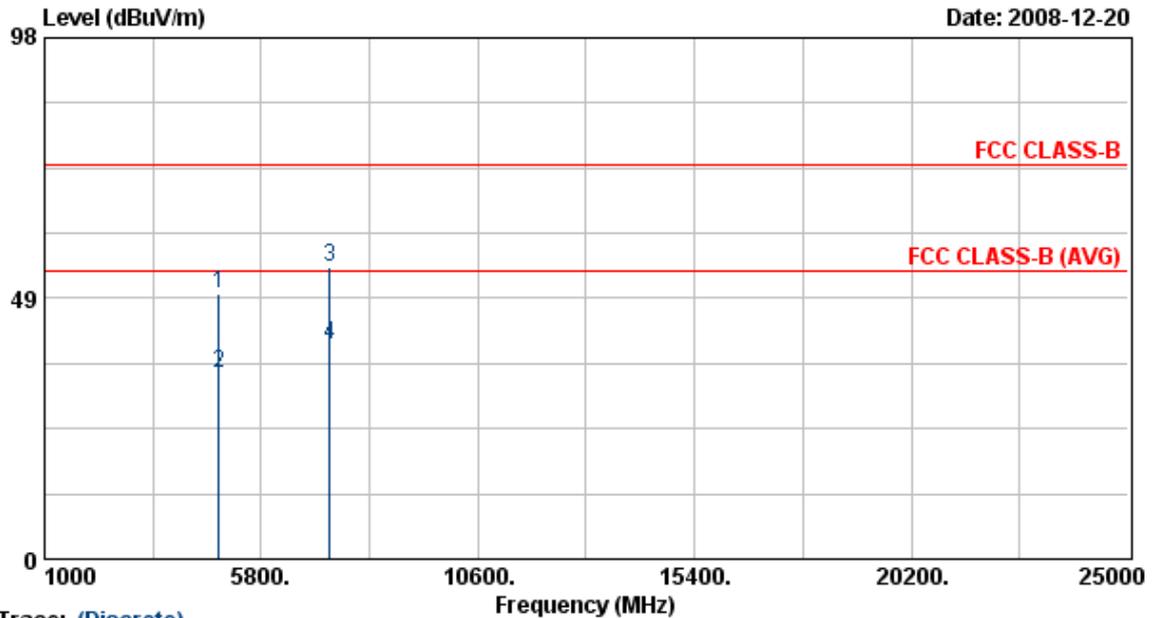
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4871.26	27.81	7.32	35.12	54.00	-18.88	Average	100	185
2	4876.14	42.73	7.33	50.07	74.00	-23.93	Peak	100	185
3	7309.22	28.87	11.39	40.25	54.00	-13.75	Average	100	185
4	7311.34	43.05	11.40	54.45	74.00	-19.55	Peak	100	185

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

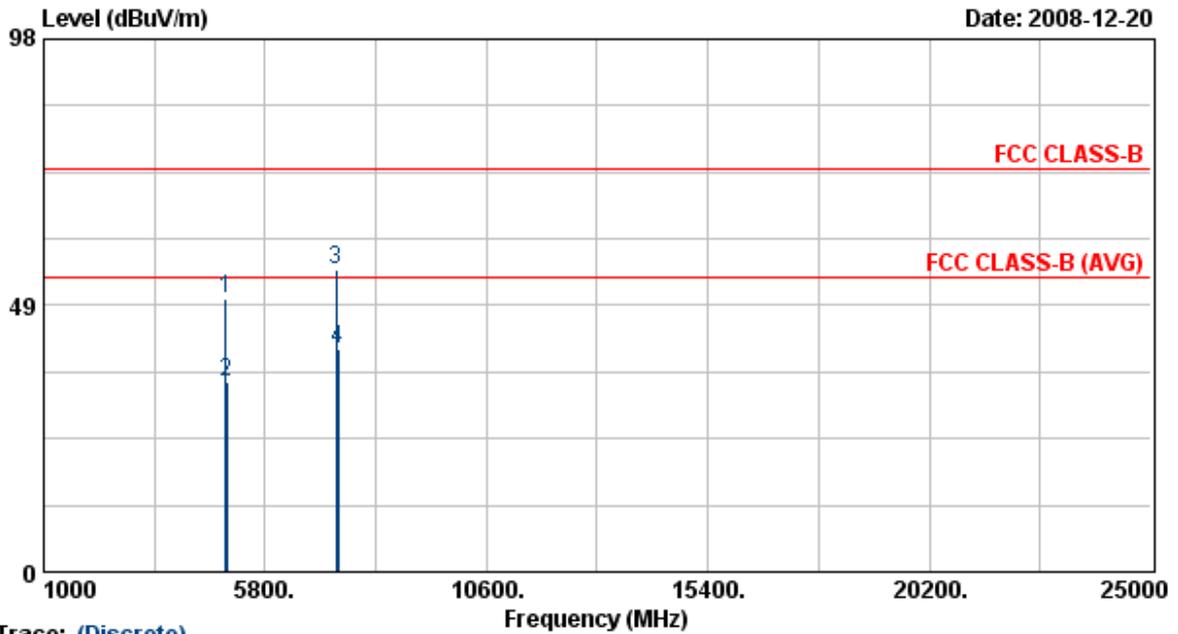
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4870.78	42.67	7.32	49.99	74.00	-24.01	Peak	100	183
2	4871.38	27.76	7.32	35.07	54.00	-18.93	Average	100	183
3	7314.36	43.54	11.41	54.95	74.00	-19.05	Peak	100	183
4	7314.50	28.86	11.41	40.28	54.00	-13.72	Average	100	183

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH11	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

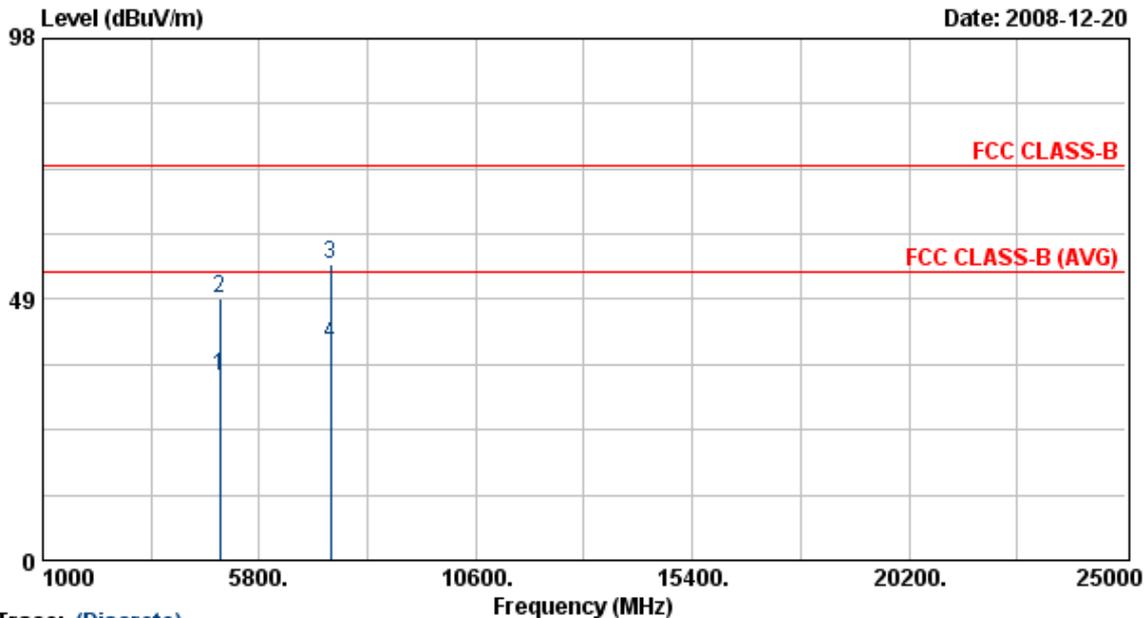
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4946.66	42.56	7.56	50.12	74.00	-23.88	Peak	100	175
2	4978.34	27.29	7.66	34.95	54.00	-19.05	Average	100	175
3	7344.42	44.03	11.56	55.59	74.00	-18.41	Peak	100	175
4	7386.00	29.30	11.76	41.05	54.00	-12.95	Average	100	175

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH11	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

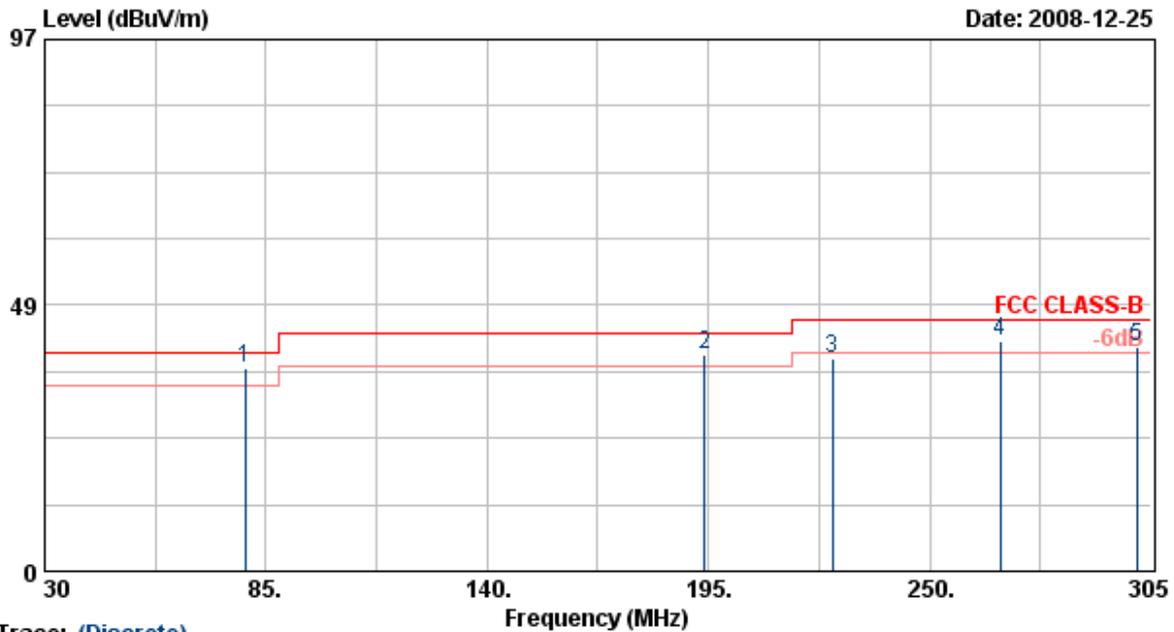
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4920.72	27.16	7.48	34.64	54.00	-19.36	Average	100	175
2	4925.14	41.74	7.49	49.23	74.00	-24.77	Peak	100	175
3	7384.50	43.78	11.75	55.53	74.00	-18.47	Peak	100	175
4	7386.32	28.90	11.76	40.65	54.00	-13.35	Average	100	175

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

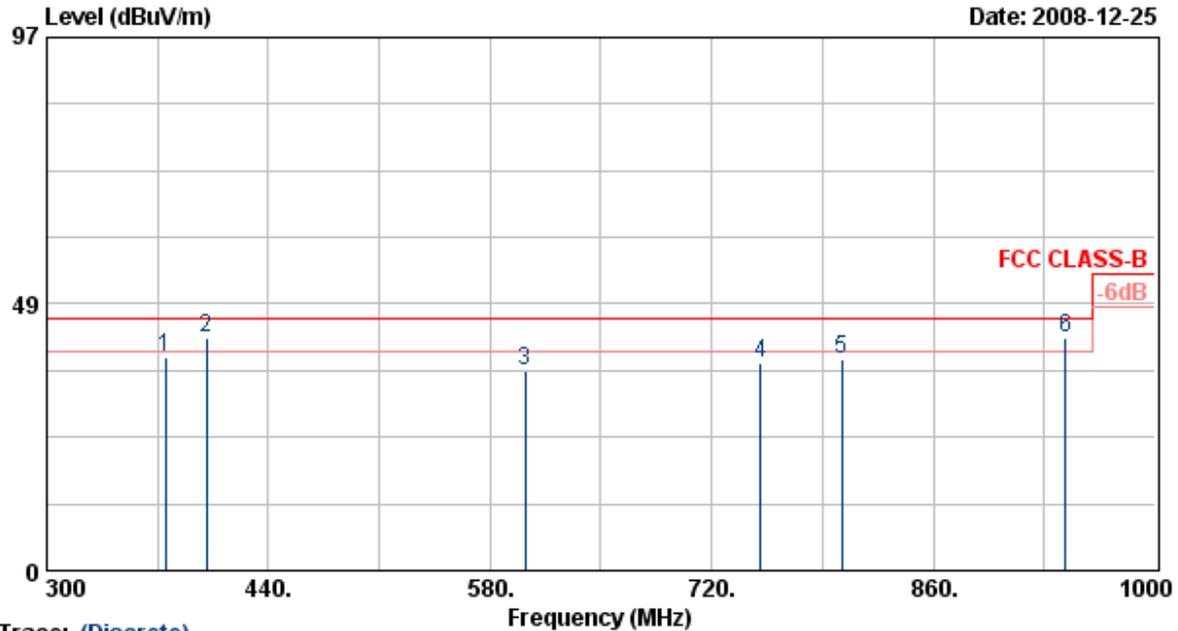
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	79.78	47.28	-10.36	36.92	40.00	-3.08	QP	150	220
2	194.18	46.66	-7.13	39.53	43.50	-3.97	QP	150	220
3	225.80	44.16	-5.53	38.63	46.00	-7.37	Peak	150	220
4	267.60	50.71	-8.61	42.10	46.00	-3.90	QP	150	220
5	301.43	45.93	-5.10	40.83	46.00	-5.17	QP	150	220

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

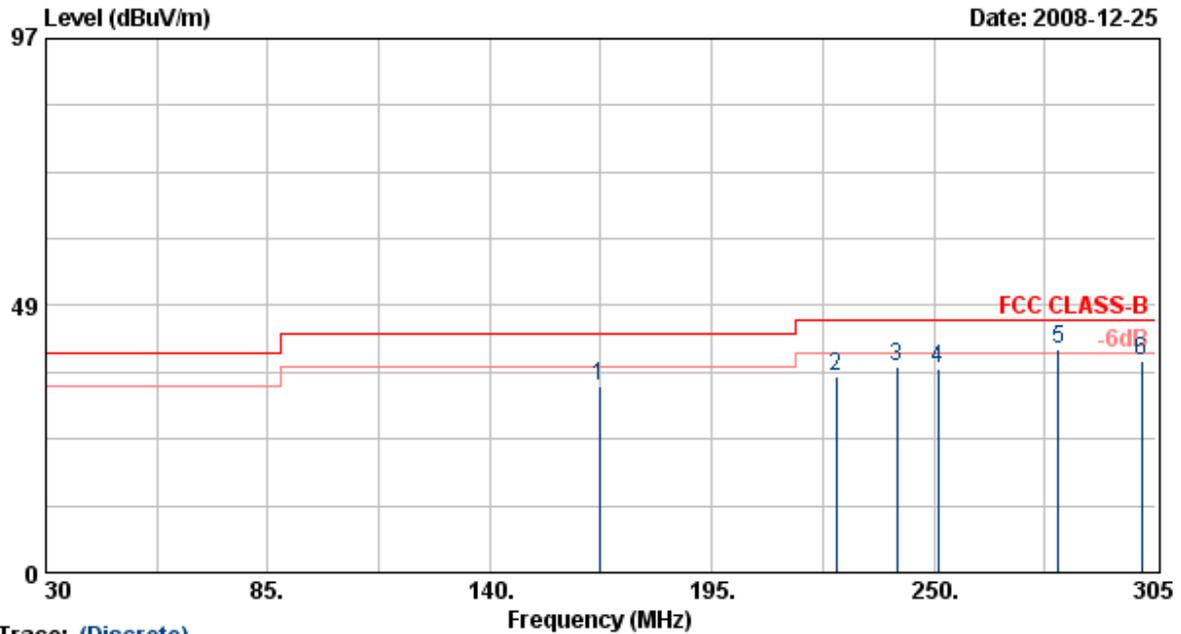
Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	374.90	42.52	-3.80	38.72	46.00	-7.28	Peak	150	214
2	400.80	46.55	-4.06	42.49	46.00	-3.51	QP	150	214
3	602.40	35.54	0.71	36.25	46.00	-9.75	Peak	150	214
4	750.80	32.03	5.70	37.73	46.00	-8.27	Peak	150	214
5	801.90	35.45	2.96	38.41	46.00	-7.59	Peak	150	214
6	943.30	32.95	9.22	42.17	46.00	-3.83	QP	150	214

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

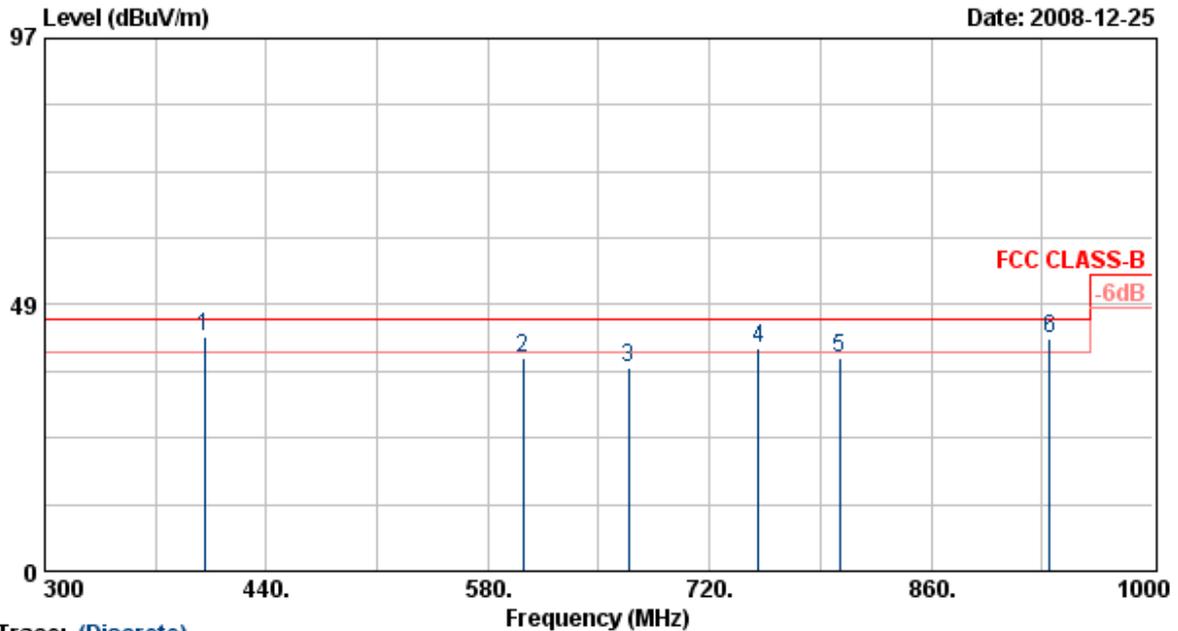
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	167.23	44.86	-11.11	33.75	43.50	-9.75	Peak	150	302
2	225.80	45.64	-9.93	35.71	46.00	-10.29	Peak	150	302
3	240.93	47.57	-10.09	37.48	46.00	-8.52	Peak	150	302
4	251.10	46.67	-9.65	37.02	46.00	-8.98	Peak	150	302
5	280.80	47.22	-6.66	40.56	46.00	-5.44	QP	150	302
6	301.43	43.46	-5.02	38.44	46.00	-7.56	Peak	150	302

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

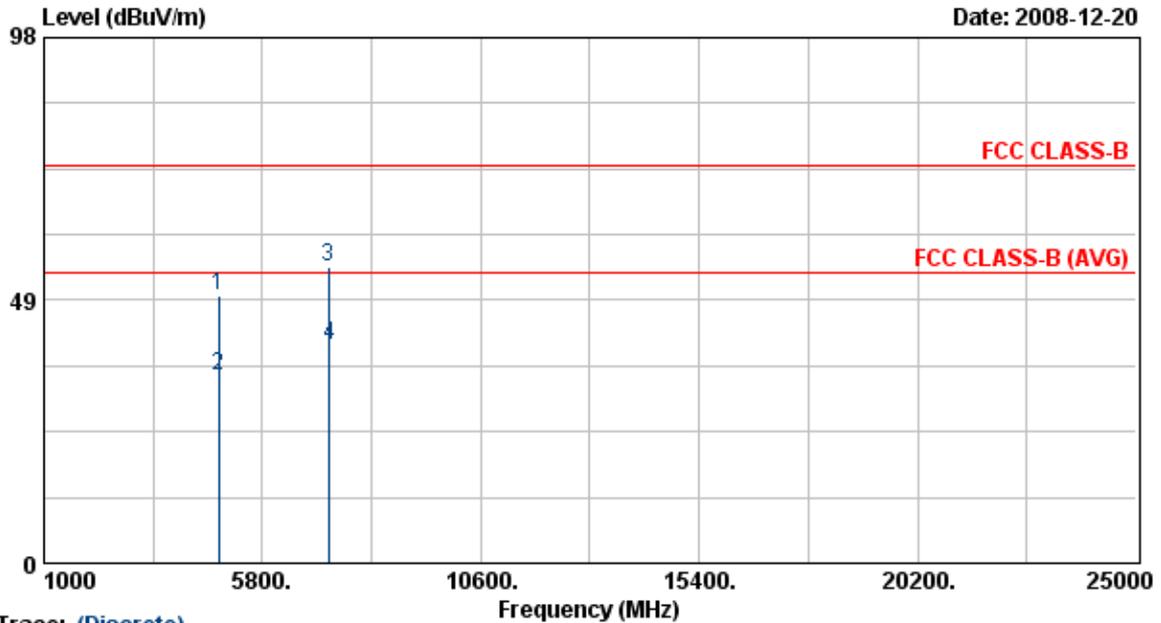
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	44.94	-2.13	42.81	46.00	-3.19	QP	150	180
2	602.40	36.67	2.25	38.92	46.00	-7.08	Peak	150	180
3	668.90	34.28	2.92	37.20	46.00	-8.80	Peak	150	180
4	750.80	35.30	5.43	40.73	46.00	-5.27	QP	150	180
5	801.90	33.79	4.85	38.64	46.00	-7.36	Peak	150	180
6	934.90	34.86	7.31	42.17	46.00	-3.83	QP	150	180

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

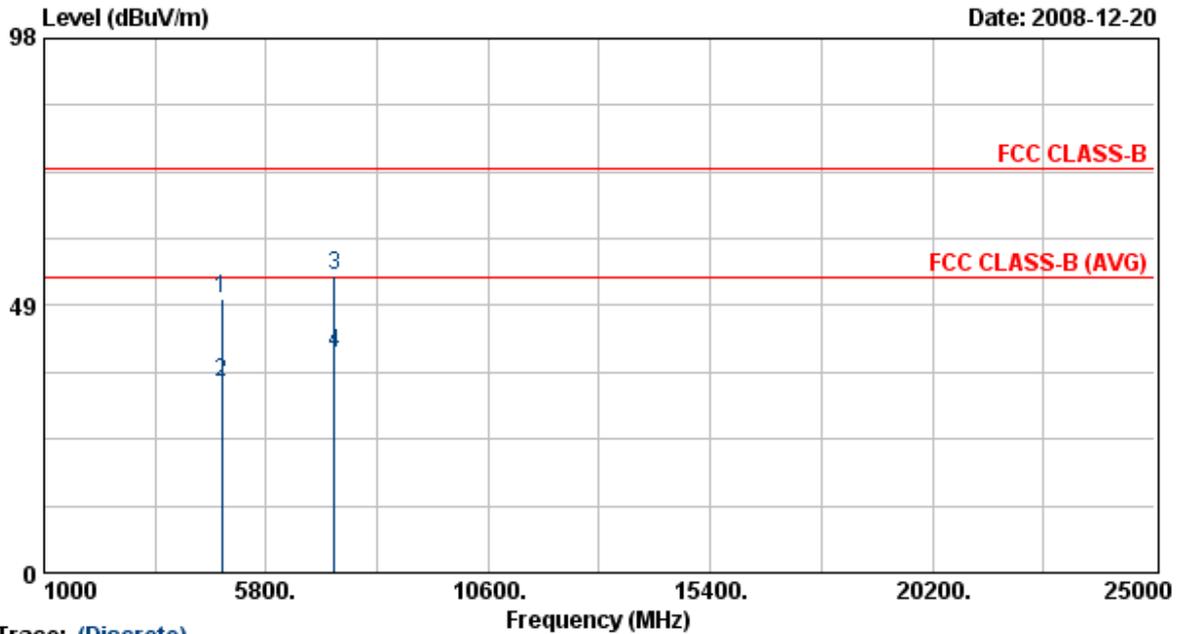
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4847.24	42.68	7.24	49.93	74.00	-24.07	Peak	100	195
2	4847.94	27.71	7.24	34.95	54.00	-19.05	Average	100	195
3	7264.48	43.99	11.17	55.16	74.00	-18.84	Peak	100	195
4	7266.54	29.30	11.18	40.49	54.00	-13.51	Average	100	195

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

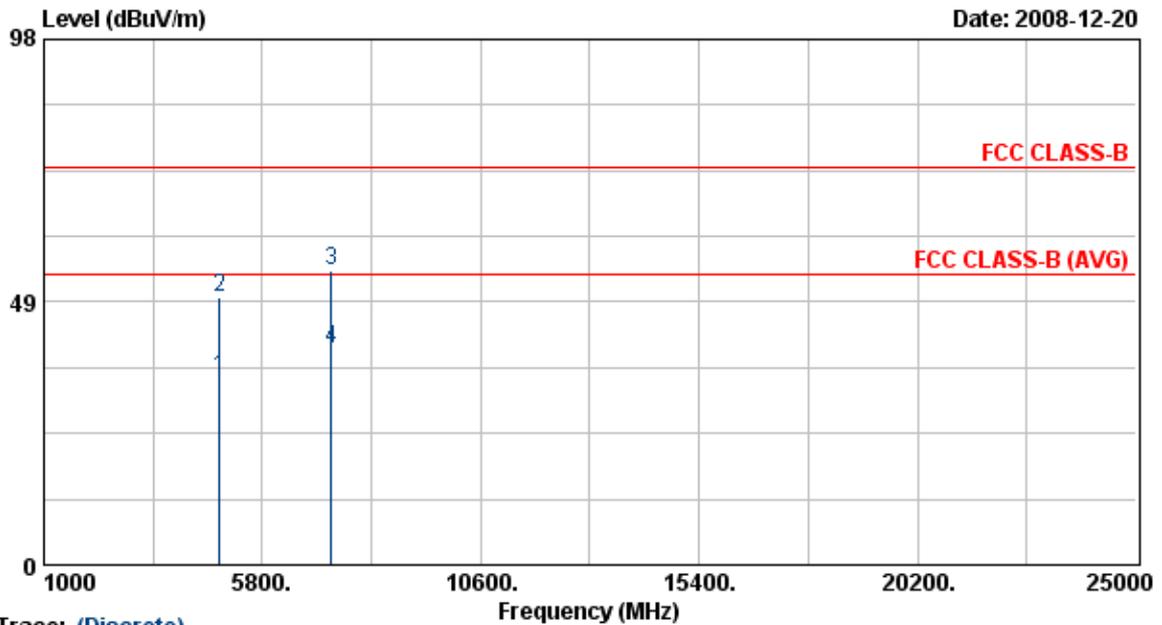
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4847.52	43.00	7.24	50.25	74.00	-23.75	Peak	100	175
2	4847.76	27.75	7.24	34.99	54.00	-19.01	Average	100	175
3	7266.36	43.21	11.18	54.40	74.00	-19.60	Peak	100	175
4	7266.76	29.15	11.19	40.34	54.00	-13.66	Average	100	175

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



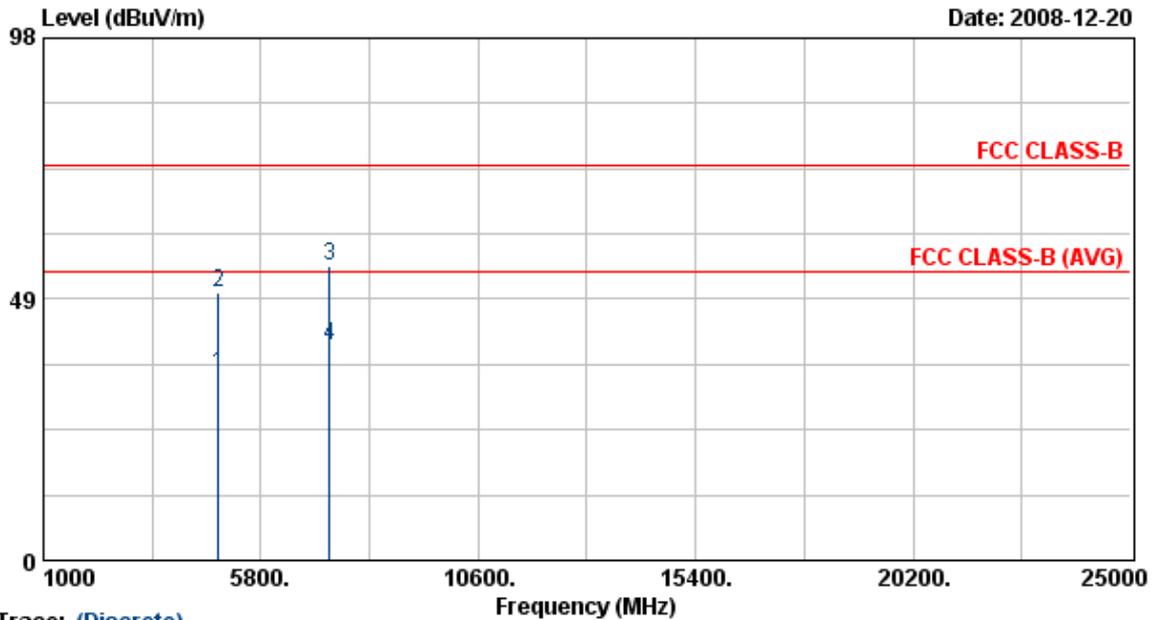
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4871.18	27.60	7.32	34.92	54.00	-19.08	Average	100	188
2	4871.96	42.47	7.32	49.79	74.00	-24.21	Peak	100	188
3	7309.02	43.41	11.39	54.80	74.00	-19.20	Peak	100	188
4	7309.10	28.85	11.39	40.23	54.00	-13.77	Average	100	188

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 3	: 802.11n HT40, CH6	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

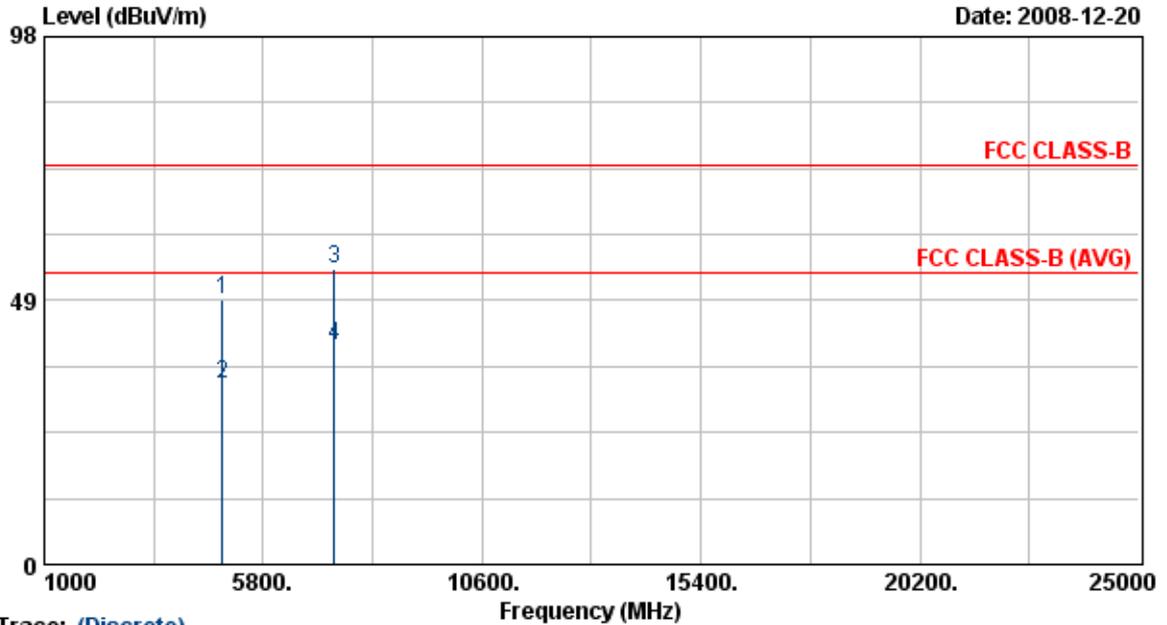
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4871.32	27.58	7.32	34.90	54.00	-19.10	Average	100	178
2	4872.64	42.92	7.32	50.24	74.00	-23.76	Peak	100	178
3	7308.98	43.79	11.39	55.17	74.00	-18.83	Peak	100	178
4	7309.14	28.86	11.39	40.25	54.00	-13.75	Average	100	178

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH9	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

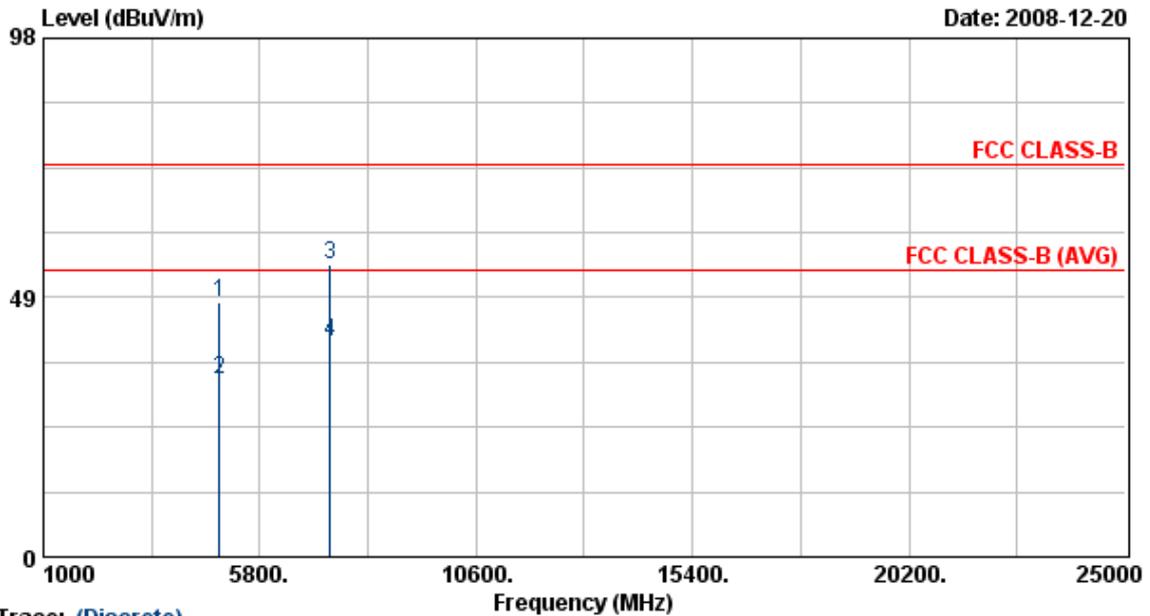
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4902.48	41.65	7.42	49.07	74.00	-24.93	Peak	100	183
2	4905.14	26.15	7.43	33.58	54.00	-20.42	Average	100	183
3	7356.24	43.25	11.61	54.86	74.00	-19.14	Peak	100	183
4	7356.46	29.00	11.61	40.61	54.00	-13.39	Average	100	183

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 3	: 802.11n HT40, CH9	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

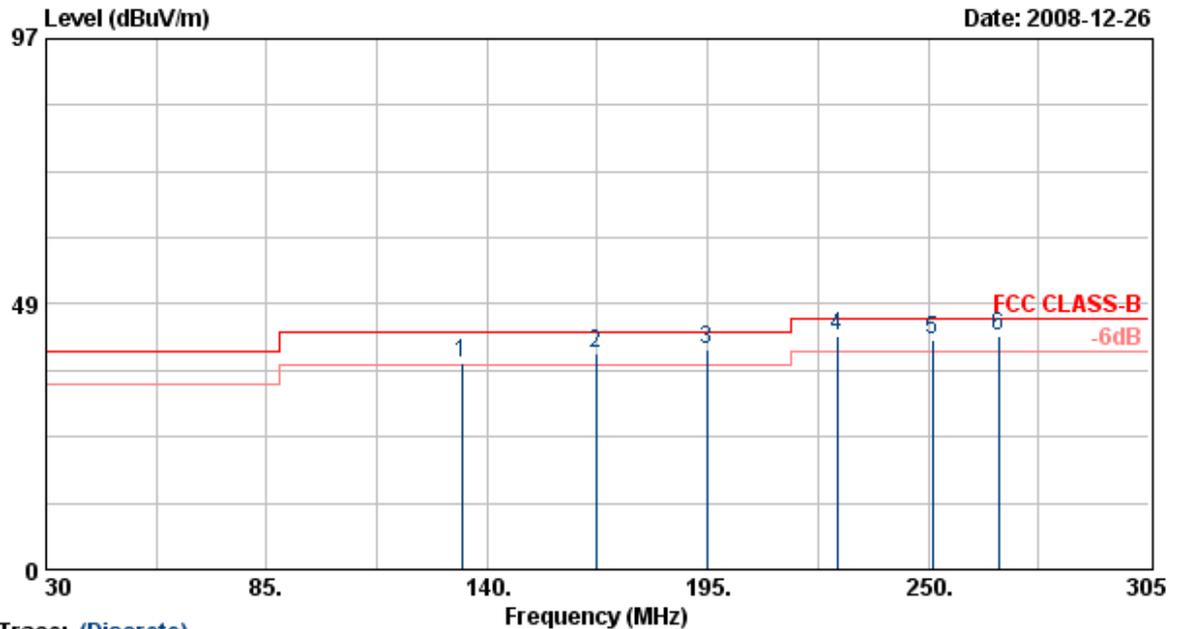
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4903.94	40.70	7.42	48.12	74.00	-25.88	Peak	100	190
2	4905.16	26.16	7.43	33.59	54.00	-20.41	Average	100	190
3	7353.08	43.60	11.60	55.20	74.00	-18.80	Peak	100	190
4	7355.94	29.05	11.61	40.66	54.00	-13.34	Average	100	190

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 4	: 802.11a, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

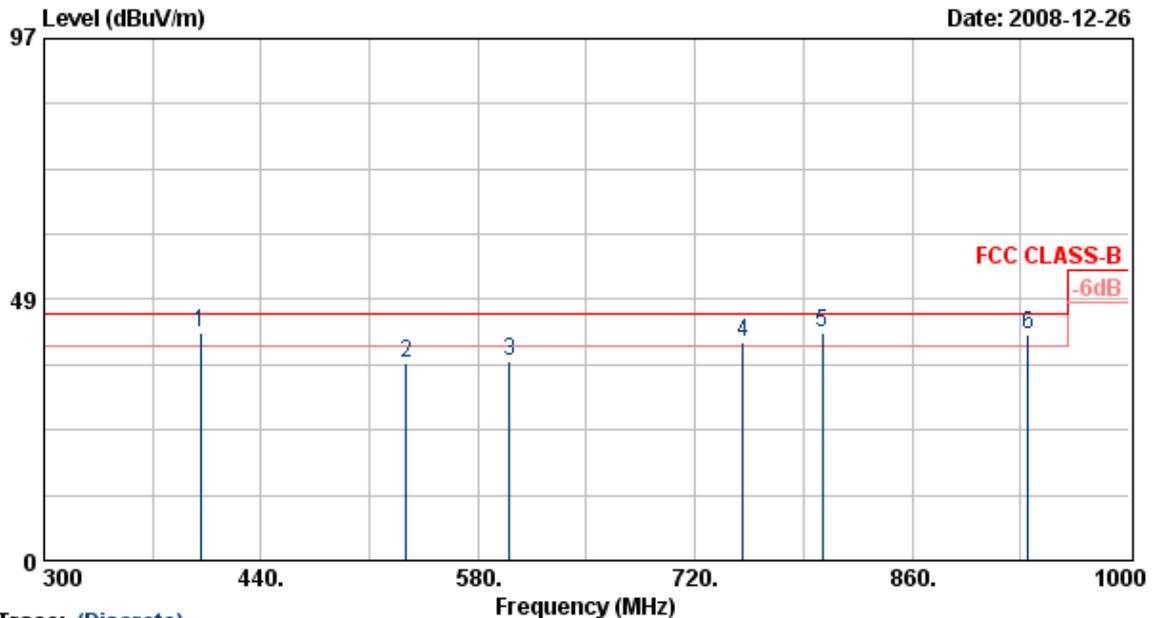
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	48.27	-10.38	37.89	43.50	-5.61	QP	150	0
2	167.23	46.10	-6.45	39.65	43.50	-3.85	QP	150	0
3	194.73	47.64	-7.26	40.38	43.50	-3.12	QP	150	0
4	227.18	48.31	-5.60	42.71	46.00	-3.29	QP	150	0
5	251.10	47.54	-5.40	42.14	46.00	-3.86	QP	150	0
6	267.60	51.30	-8.61	42.69	46.00	-3.31	QP	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 4	: 802.11a, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

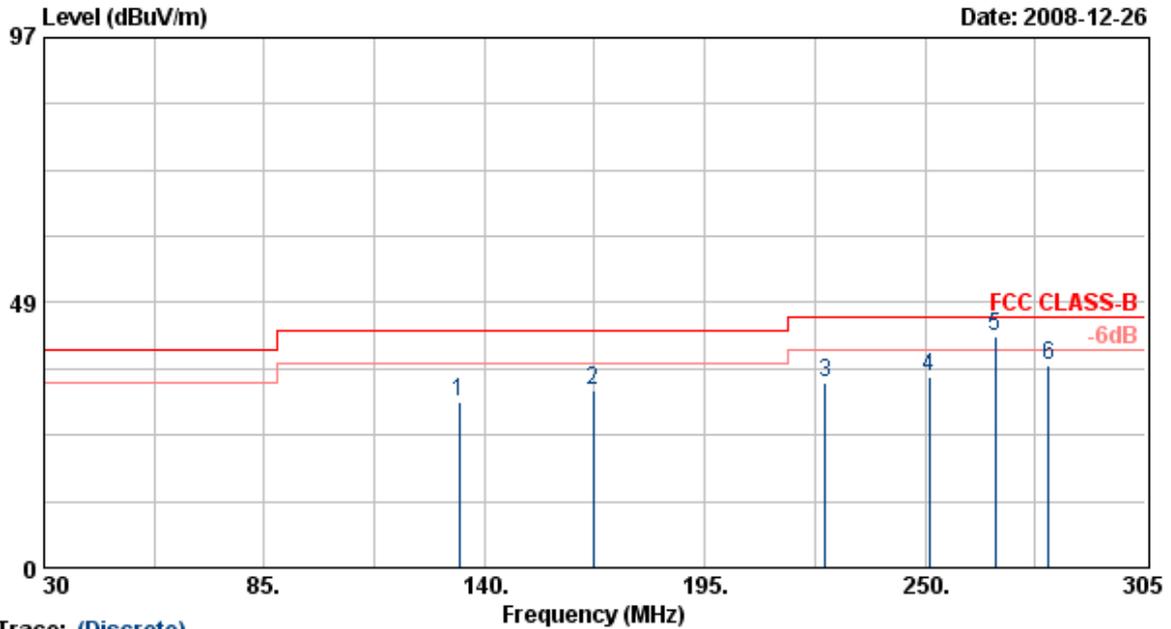
Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	400.80	46.54	-4.06	42.48	46.00	-3.52	QP	100	0
2	533.80	36.92	-0.09	36.83	46.00	-9.17	Peak	100	0
3	600.30	36.19	0.95	37.14	46.00	-8.86	Peak	100	0
4	750.80	35.00	5.70	40.70	46.00	-5.30	QP	100	0
5	801.90	39.35	2.96	42.31	46.00	-3.69	QP	100	0
6	934.90	32.46	9.69	42.15	46.00	-3.85	QP	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 4	: 802.11a, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



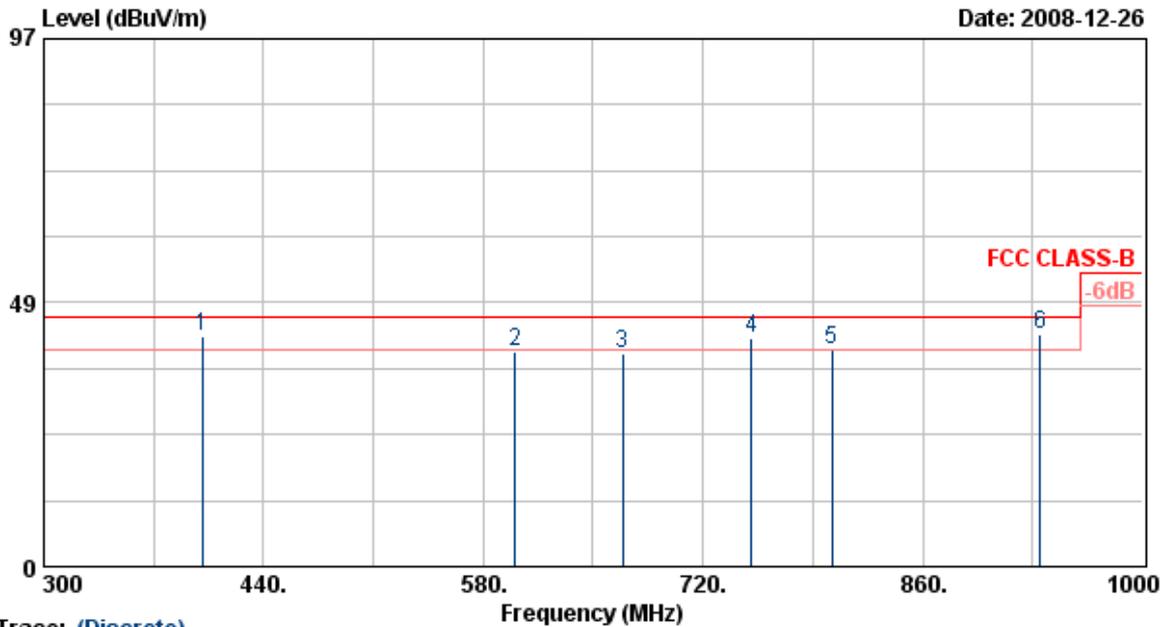
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.37	-14.90	30.47	43.50	-13.03	Peak	150	0
2	167.23	43.52	-11.11	32.41	43.50	-11.09	Peak	150	0
3	224.98	43.78	-9.77	34.01	46.00	-11.99	Peak	150	0
4	251.10	44.45	-9.65	34.80	46.00	-11.20	Peak	150	0
5	267.60	50.32	-7.99	42.33	46.00	-3.67	QP	150	0
6	280.80	43.68	-6.66	37.02	46.00	-8.98	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 4	: 802.11a, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

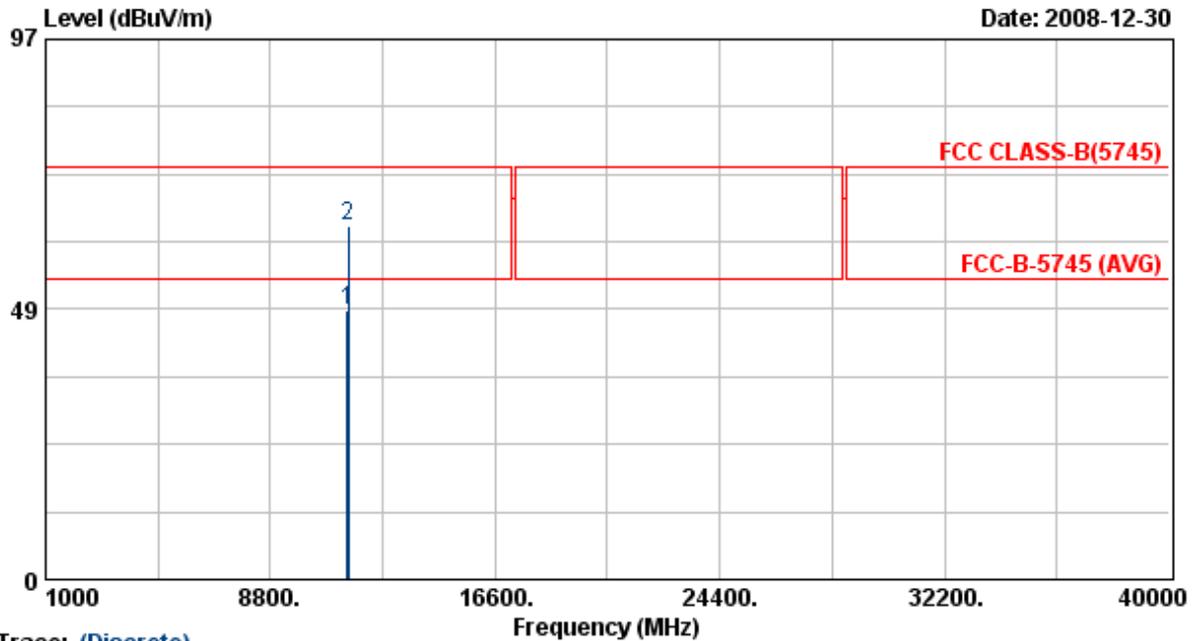
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	44.61	-2.13	42.48	46.00	-3.52	QP	100	0
2	600.30	37.44	2.15	39.59	46.00	-6.41	Peak	100	0
3	668.90	36.35	2.92	39.27	46.00	-6.73	Peak	100	0
4	750.80	36.43	5.43	41.86	46.00	-4.14	QP	100	0
5	801.90	35.08	4.85	39.93	46.00	-6.07	Peak	100	0
6	934.90	35.39	7.31	42.70	46.00	-3.30	QP	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 4	: 802.11a, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

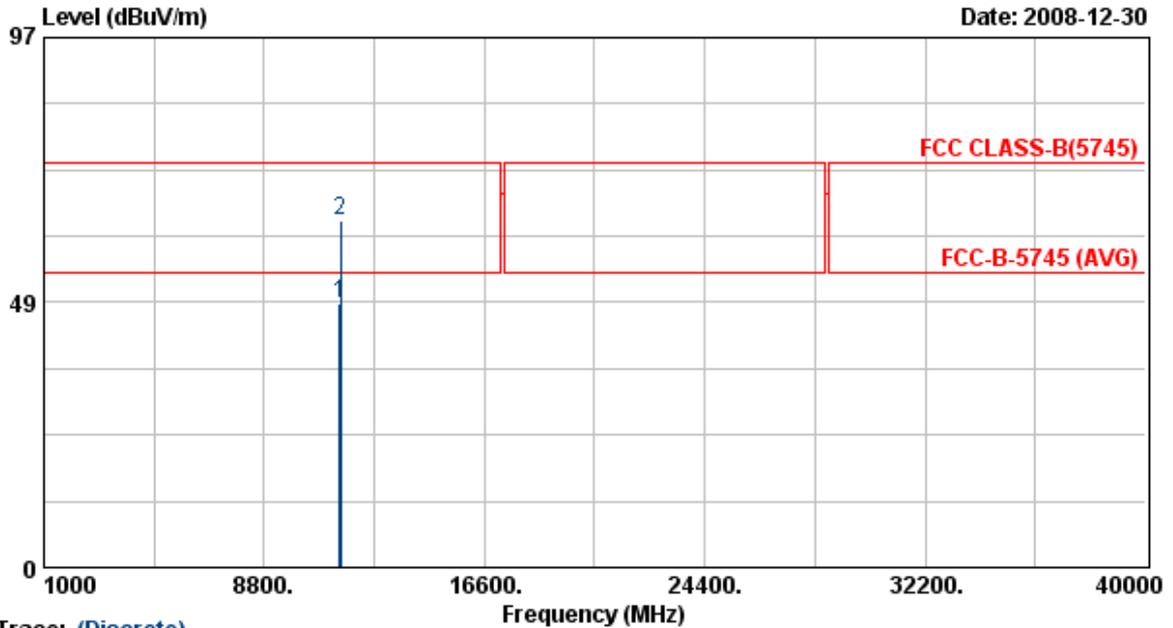
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11486.96	31.98	16.49	48.47	54.00	-5.53	Average	100	187
2	11491.82	47.00	16.49	63.50	74.00	-10.50	Peak	100	187

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 4	: 802.11a, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

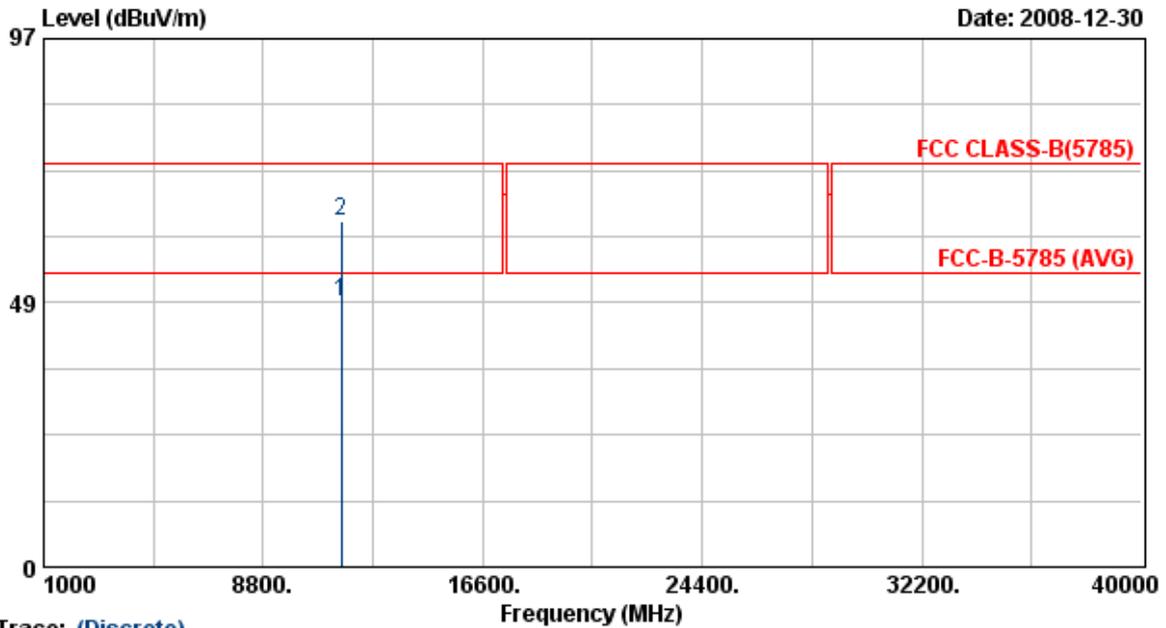
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11486.84	31.98	16.49	48.47	54.00	-5.53	Average	100	185
2	11490.04	46.84	16.49	63.33	74.00	-10.67	Peak	100	185

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 4	: 802.11a, CH157	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

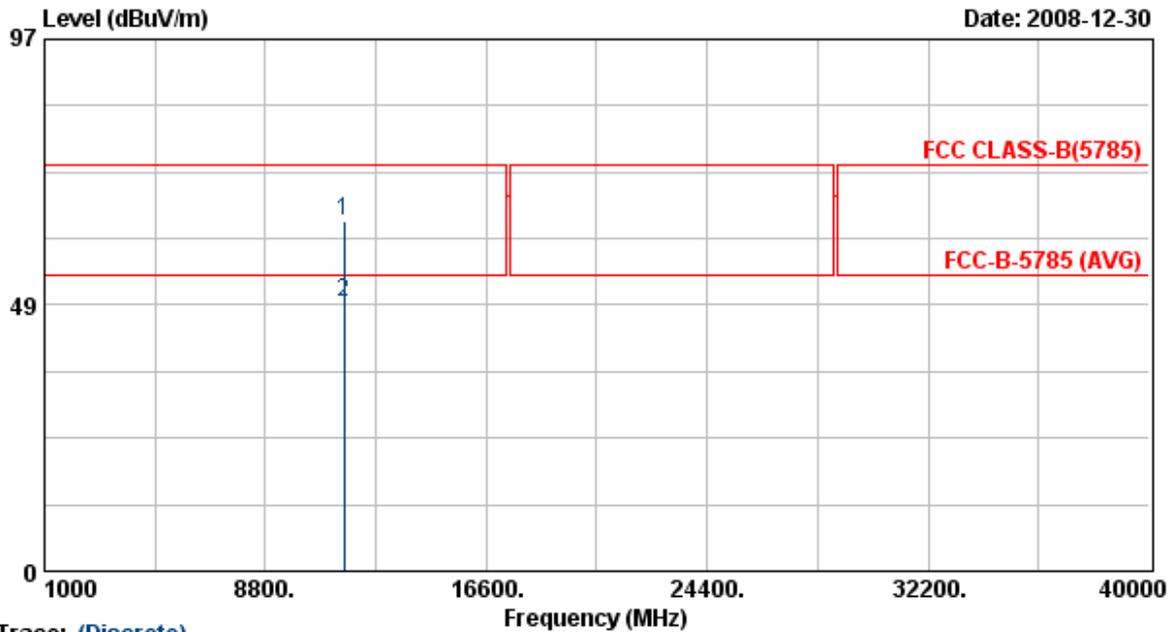
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11569.96	32.00	16.60	48.60	54.00	-5.40	Average	100	151
2	11571.42	46.72	16.60	63.32	74.00	-10.68	Peak	100	151

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 4	: 802.11a, CH157	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

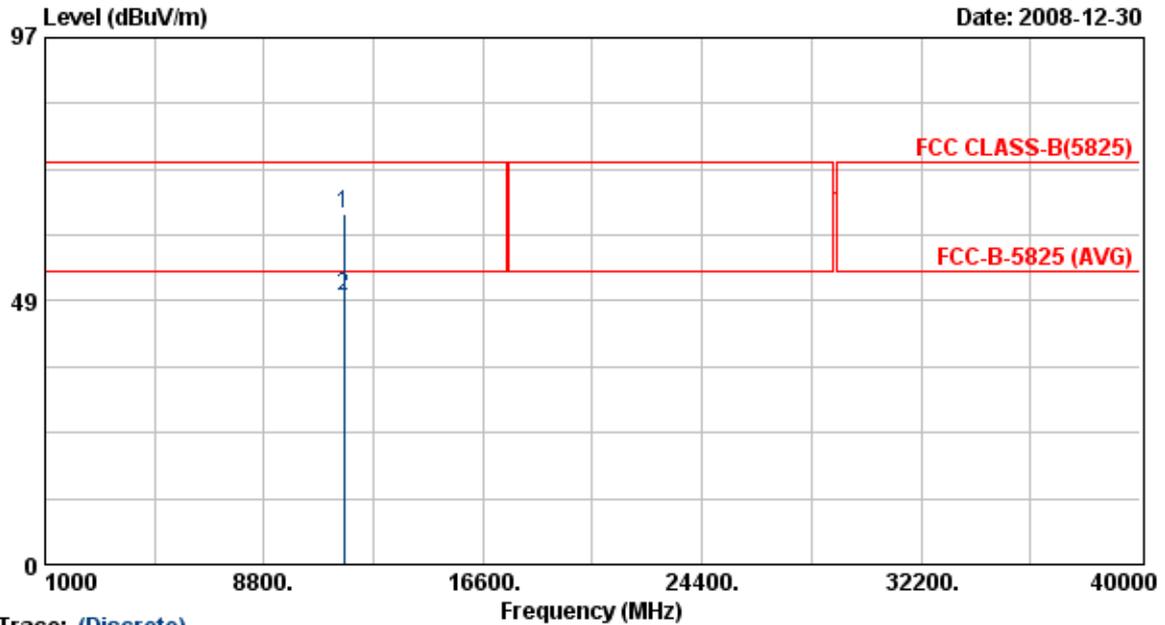
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11570.06	47.20	16.60	63.79	74.00	-10.21	Peak	100	151
2	11570.12	32.36	16.60	48.95	54.00	-5.05	Average	100	151

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 4	: 802.11a, CH165	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

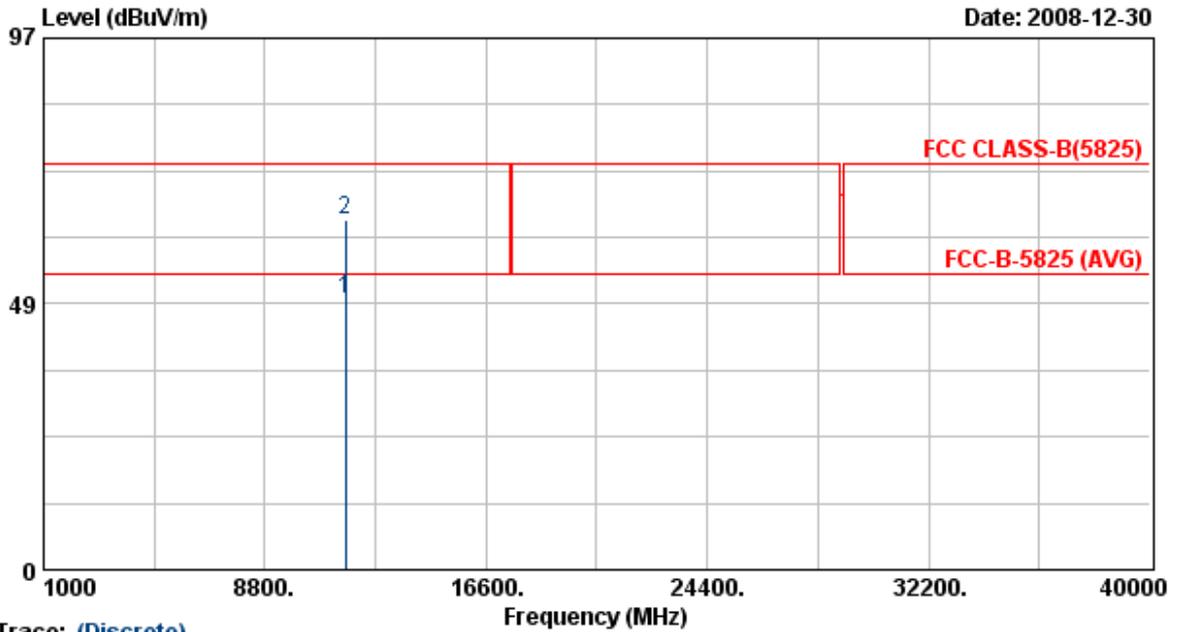
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11649.82	47.83	16.71	64.54	74.00	-9.46	Peak	100	152
2	11650.16	32.63	16.71	49.34	54.00	-4.66	Average	100	152

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 4	: 802.11a, CH165	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

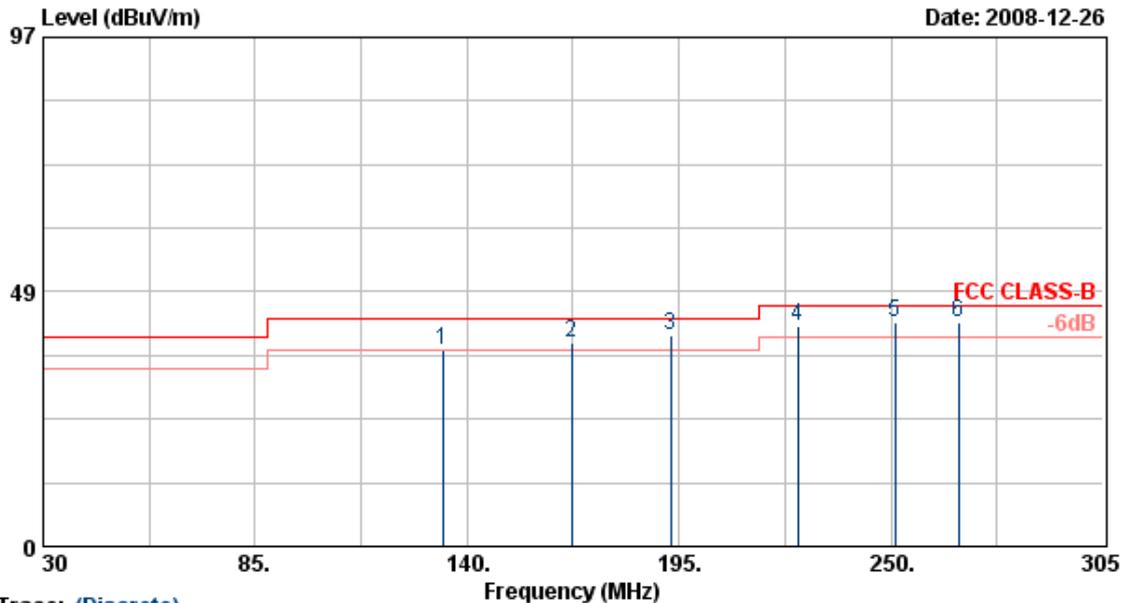
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11650.16	32.69	16.71	49.40	54.00	-4.60	Average	100	152
2	11652.68	47.17	16.71	63.88	74.00	-10.12	Peak	100	152

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

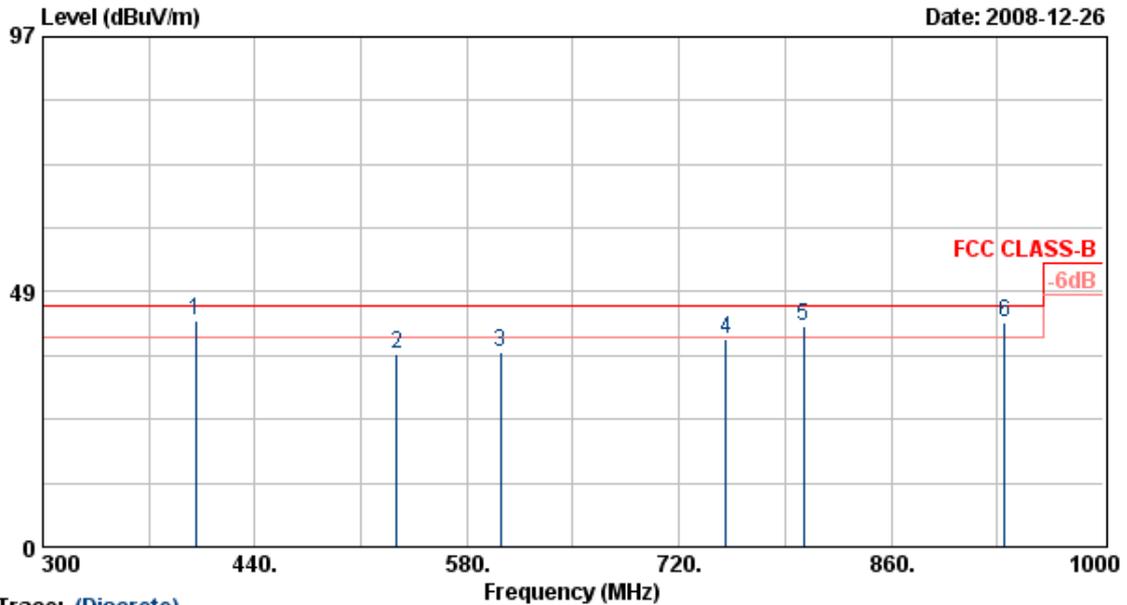
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	47.84	-10.38	37.46	43.50	-6.04	Peak	150	0
2	167.23	45.25	-6.45	38.80	43.50	-4.70	QP	150	0
3	192.80	47.00	-6.81	40.19	43.50	-3.31	QP	150	0
4	225.80	47.64	-5.53	42.11	46.00	-3.89	QP	150	0
5	251.10	48.05	-5.40	42.65	46.00	-3.35	QP	150	0
6	267.60	51.42	-8.61	42.81	46.00	-3.19	QP	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

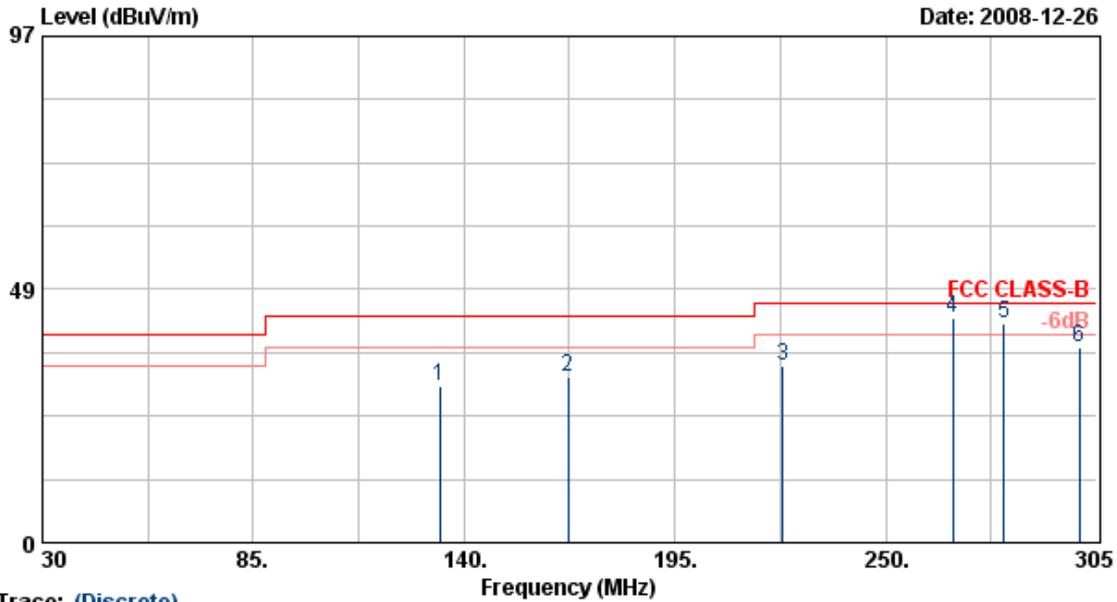
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	46.97	-4.06	42.91	46.00	-3.09	QP	100	0
2	533.80	36.78	-0.09	36.69	46.00	-9.31	Peak	100	0
3	602.40	36.43	0.71	37.14	46.00	-8.86	Peak	100	0
4	750.80	33.79	5.70	39.49	46.00	-6.51	Peak	100	0
5	801.90	38.96	2.96	41.92	46.00	-4.08	QP	100	0
6	934.90	32.93	9.69	42.62	46.00	-3.38	QP	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

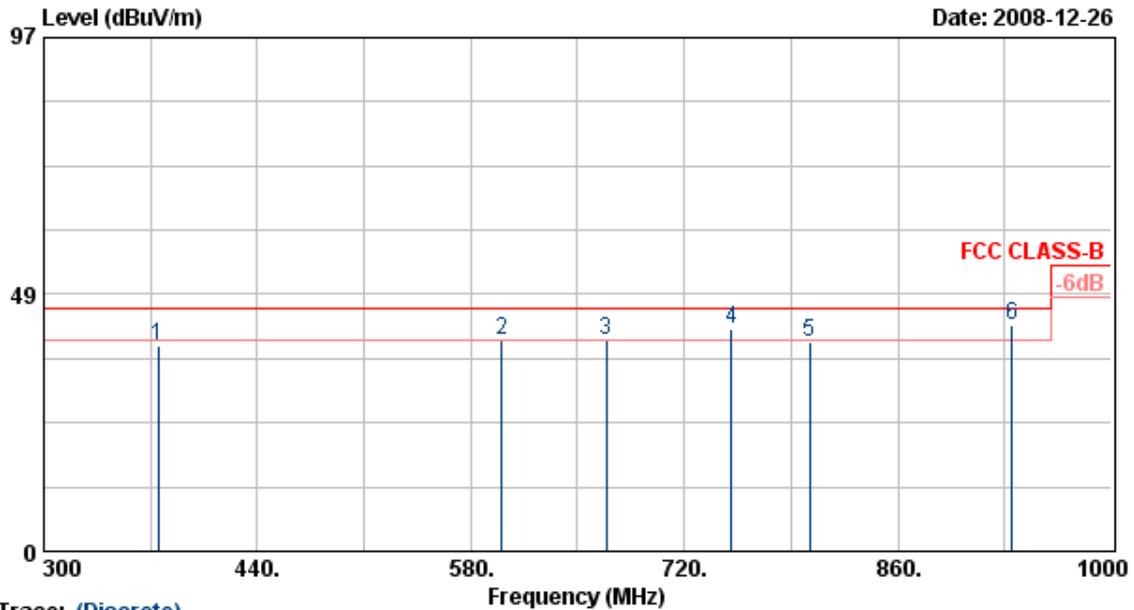
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	44.72	-14.90	29.82	43.50	-13.68	Peak	150	0
2	167.23	42.91	-11.11	31.80	43.50	-11.70	Peak	150	0
3	223.05	43.77	-9.93	33.84	46.00	-12.16	Peak	150	0
4	267.60	50.93	-7.99	42.94	46.00	-3.06	QP	150	0
5	280.80	48.51	-6.66	41.85	46.00	-4.15	QP	150	0
6	300.60	42.39	-5.04	37.35	46.00	-8.65	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

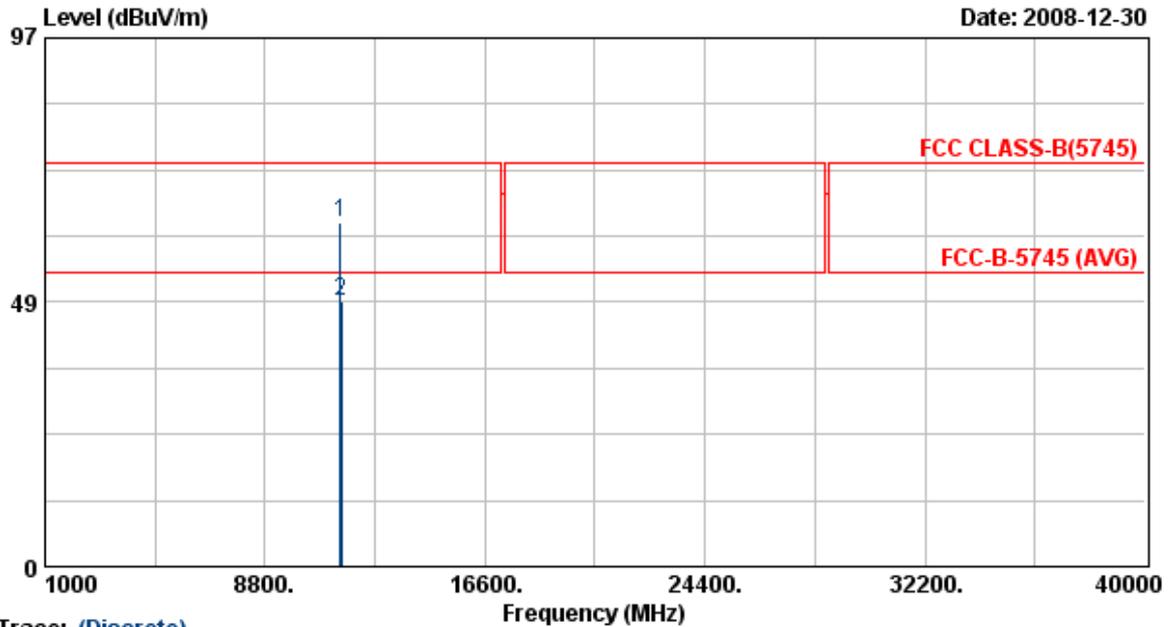
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	374.90	41.58	-2.65	38.93	46.00	-7.07	Peak	100	0
2	600.30	37.69	2.15	39.84	46.00	-6.16	Peak	100	0
3	668.90	36.91	2.92	39.83	46.00	-6.17	Peak	100	0
4	750.80	36.41	5.43	41.84	46.00	-4.16	QP	100	0
5	801.90	34.72	4.85	39.57	46.00	-6.43	Peak	100	0
6	934.90	35.51	7.31	42.82	46.00	-3.18	QP	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

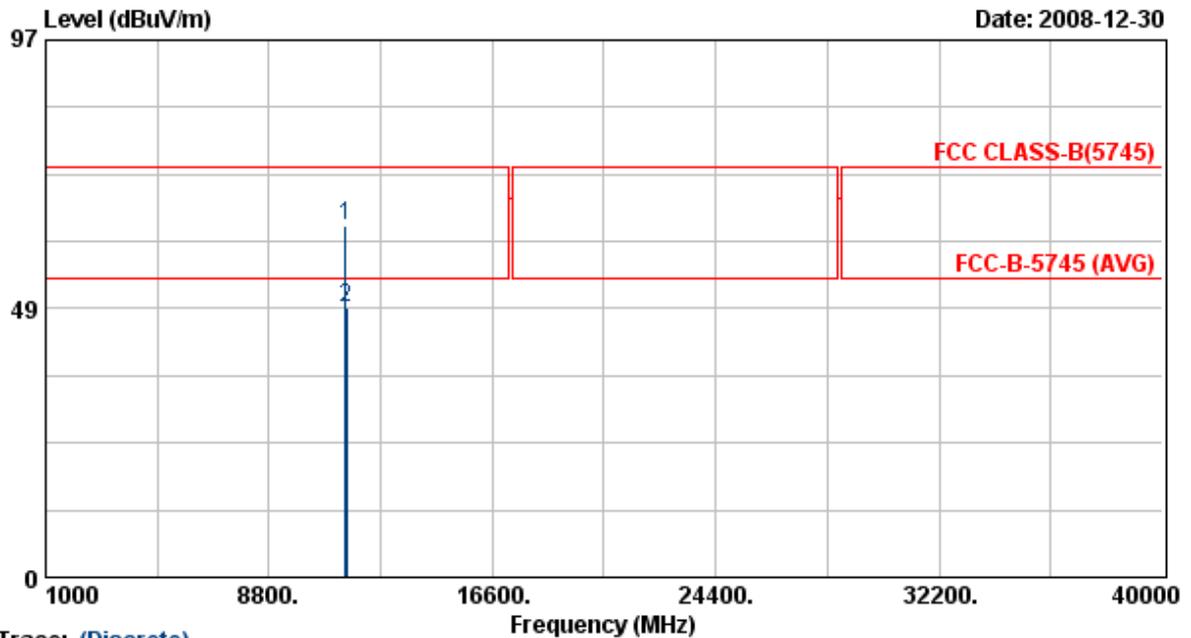
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11489.06	46.52	16.49	63.01	74.00	-10.99	Peak	100	150
2	11489.66	32.03	16.49	48.52	54.00	-5.48	Average	100	150

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

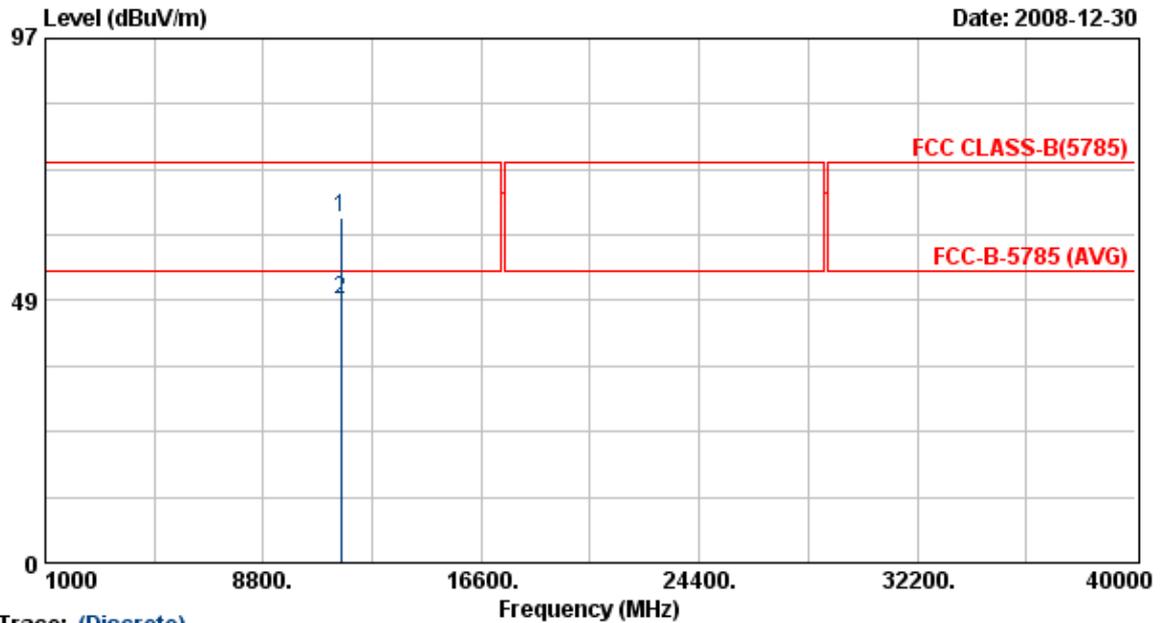
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11489.34	47.04	16.49	63.53	74.00	-10.47	Peak	100	185
2	11489.50	32.02	16.49	48.51	54.00	-5.49	Average	100	185

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH157	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

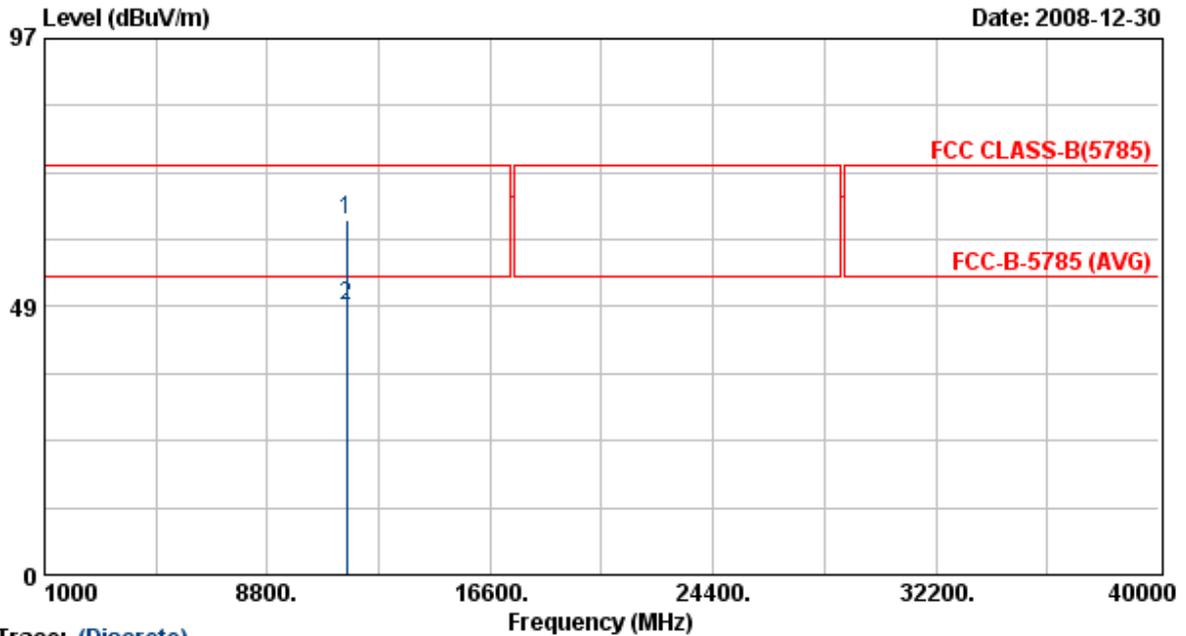
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11570.24	47.23	16.60	63.83	74.00	-10.17	Peak	100	151
2	11570.50	32.24	16.60	48.83	54.00	-5.17	Average	100	151

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH157	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

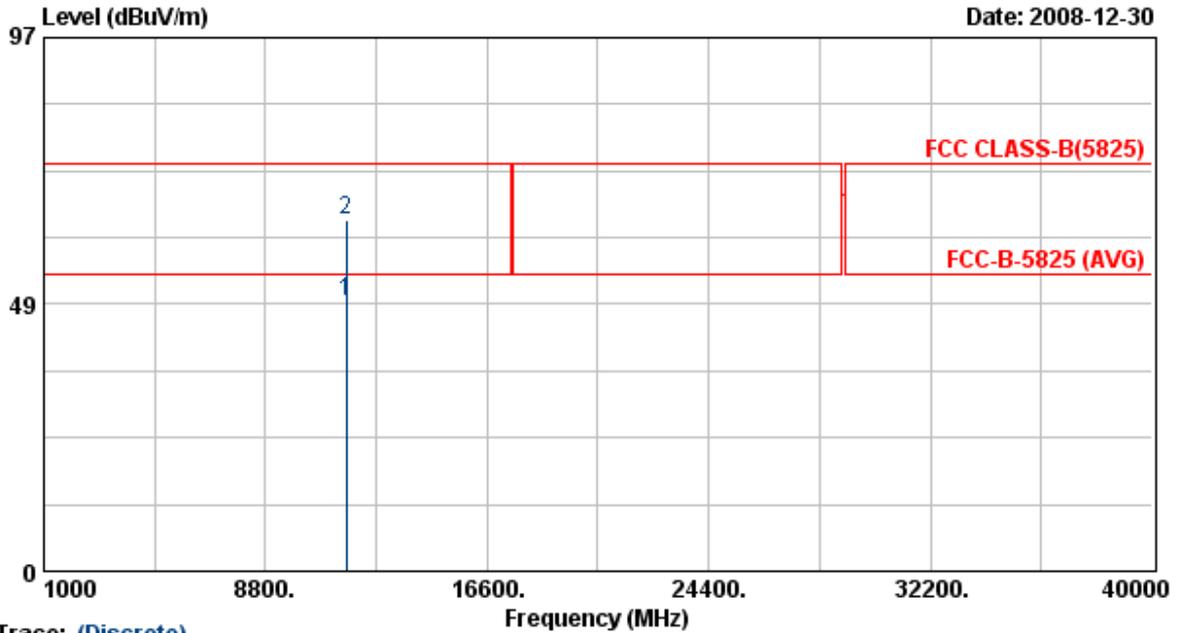
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11570.06	47.44	16.60	64.04	74.00	-9.96	Peak	100	185
2	11570.34	32.23	16.60	48.82	54.00	-5.18	Average	100	185

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH165	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

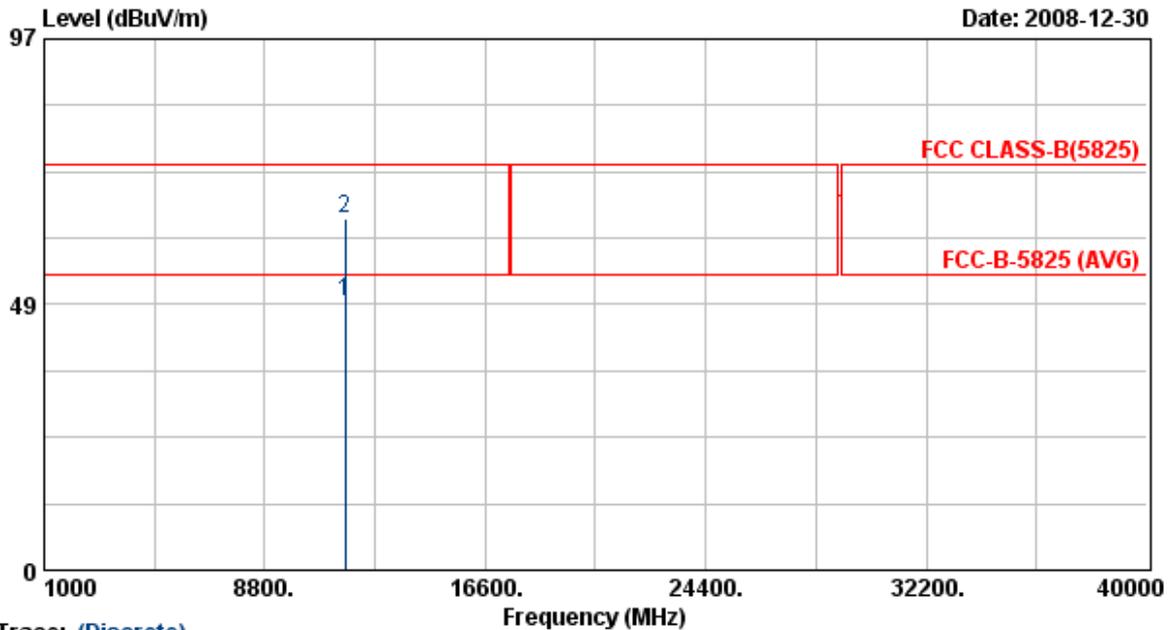
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11650.16	32.36	16.71	49.07	54.00	-4.93	Average	100	152
2	11650.42	47.20	16.71	63.91	74.00	-10.09	Peak	100	152

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH165	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

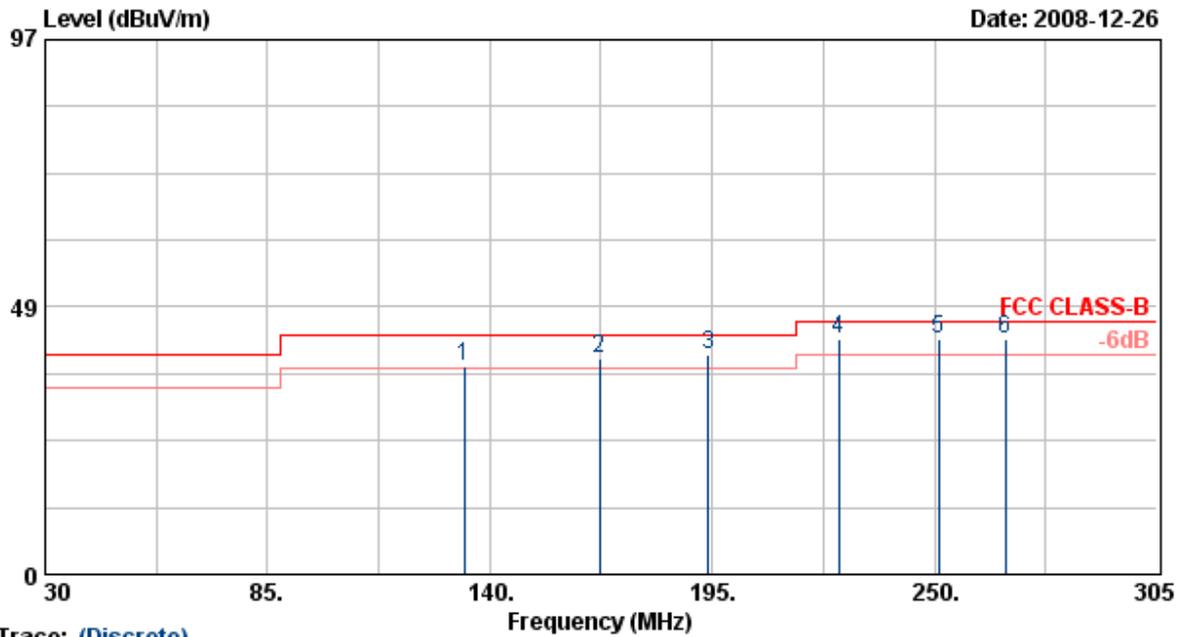
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11650.76	32.43	16.71	49.14	54.00	-4.86	Average	100	171
2	11651.92	47.61	16.71	64.33	74.00	-9.67	Peak	100	171

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

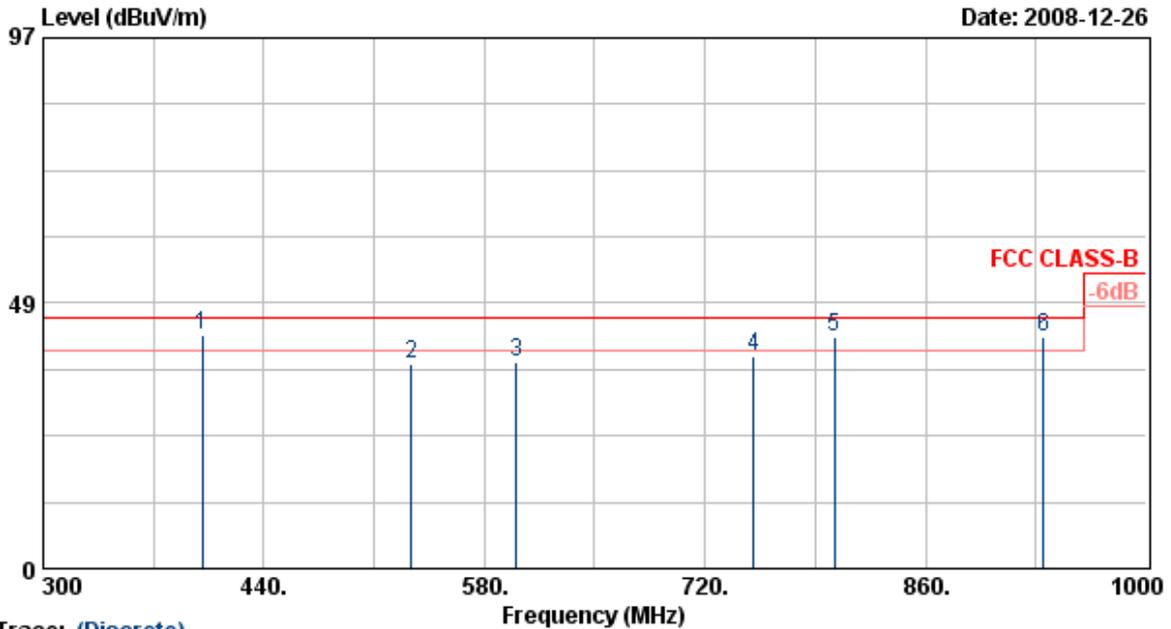
Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	133.68	48.06	-10.38	37.68	43.50	-5.82	QP	150	0
2	167.23	45.46	-6.45	39.01	43.50	-4.49	QP	150	0
3	194.18	46.85	-7.13	39.72	43.50	-3.78	QP	150	0
4	226.35	48.08	-5.56	42.52	46.00	-3.48	QP	150	0
5	251.10	47.98	-5.40	42.58	46.00	-3.42	QP	150	0
6	267.60	51.25	-8.61	42.64	46.00	-3.36	QP	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

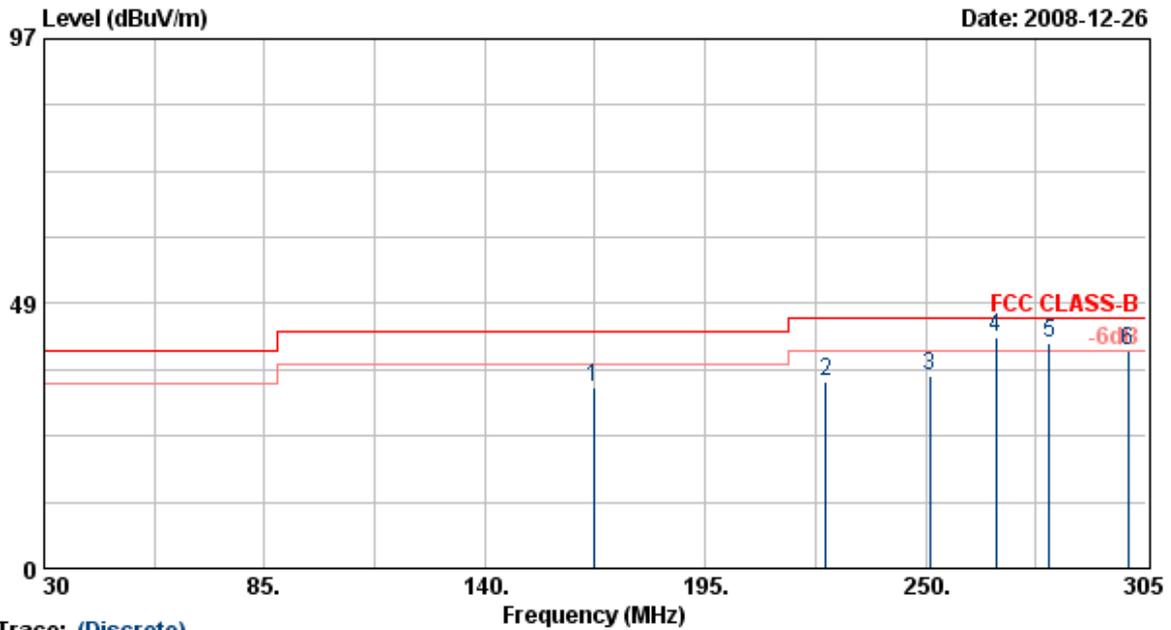
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	46.60	-4.06	42.54	46.00	-3.46	QP	100	0
2	533.80	37.36	-0.09	37.27	46.00	-8.73	Peak	100	0
3	600.30	36.75	0.95	37.70	46.00	-8.30	Peak	100	0
4	750.80	33.15	5.70	38.85	46.00	-7.15	Peak	100	0
5	801.90	39.26	2.96	42.22	46.00	-3.78	QP	100	0
6	934.90	32.68	9.69	42.37	46.00	-3.63	QP	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 26 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

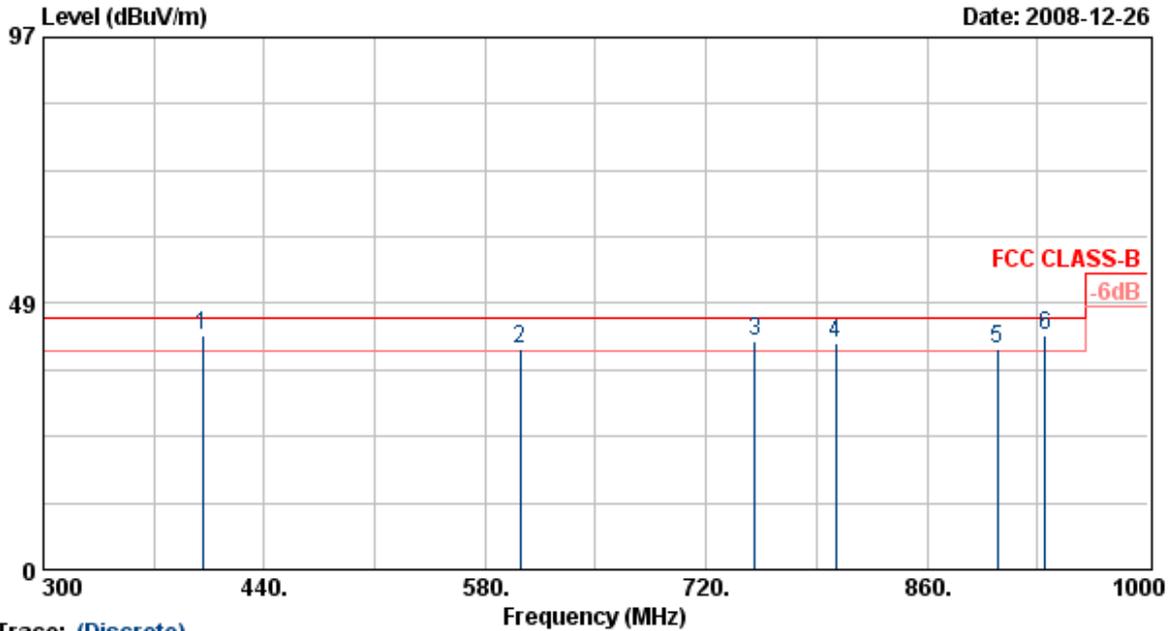
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	167.23	44.14	-11.11	33.03	43.50	-10.47	Peak	150	0
2	224.98	44.06	-9.77	34.29	46.00	-11.71	Peak	150	0
3	251.10	44.91	-9.65	35.26	46.00	-10.74	Peak	150	0
4	267.60	50.46	-7.99	42.47	46.00	-3.53	QP	150	0
5	280.80	48.01	-6.66	41.35	46.00	-4.65	QP	150	0
6	300.60	45.07	-5.04	40.03	46.00	-5.97	QP	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 22 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

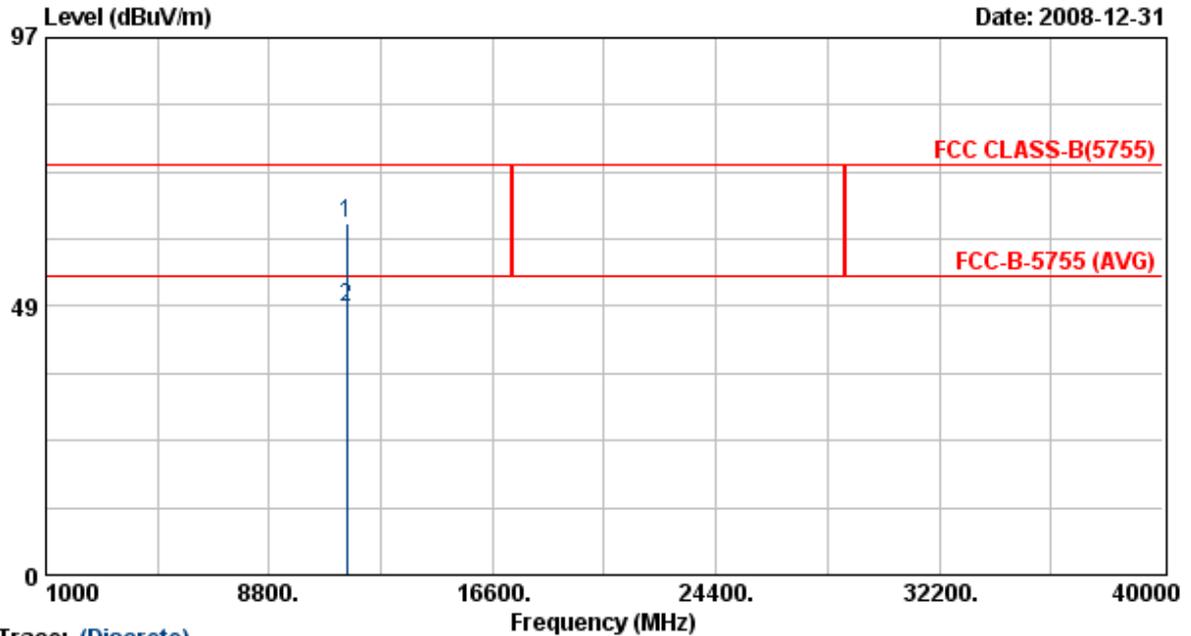
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	400.80	44.91	-2.13	42.78	46.00	-3.22	QP	100	0
2	602.40	38.08	2.25	40.33	46.00	-5.67	QP	100	0
3	750.80	36.11	5.43	41.54	46.00	-4.46	QP	100	0
4	801.90	36.55	4.85	41.40	46.00	-4.60	QP	100	0
5	904.80	33.41	6.91	40.32	46.00	-5.68	QP	100	0
6	934.90	35.41	7.31	42.72	46.00	-3.28	QP	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

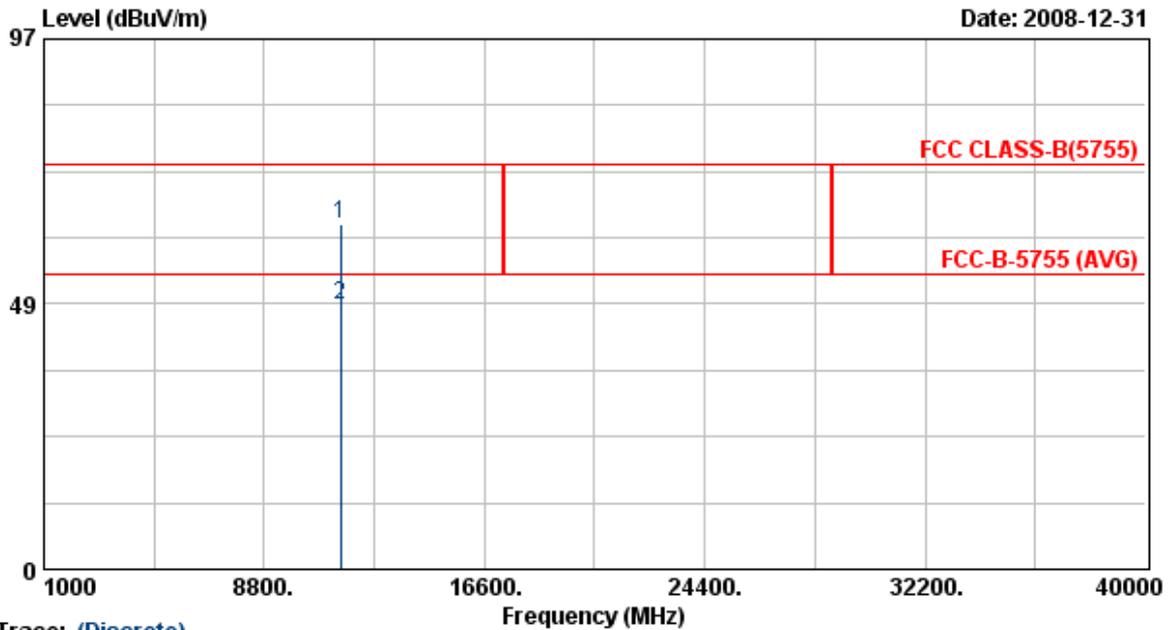
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11509.18	46.89	16.51	63.40	74.00	-10.60	Peak	100	158
2	11509.64	31.81	16.51	48.32	54.00	-5.68	Average	100	158

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

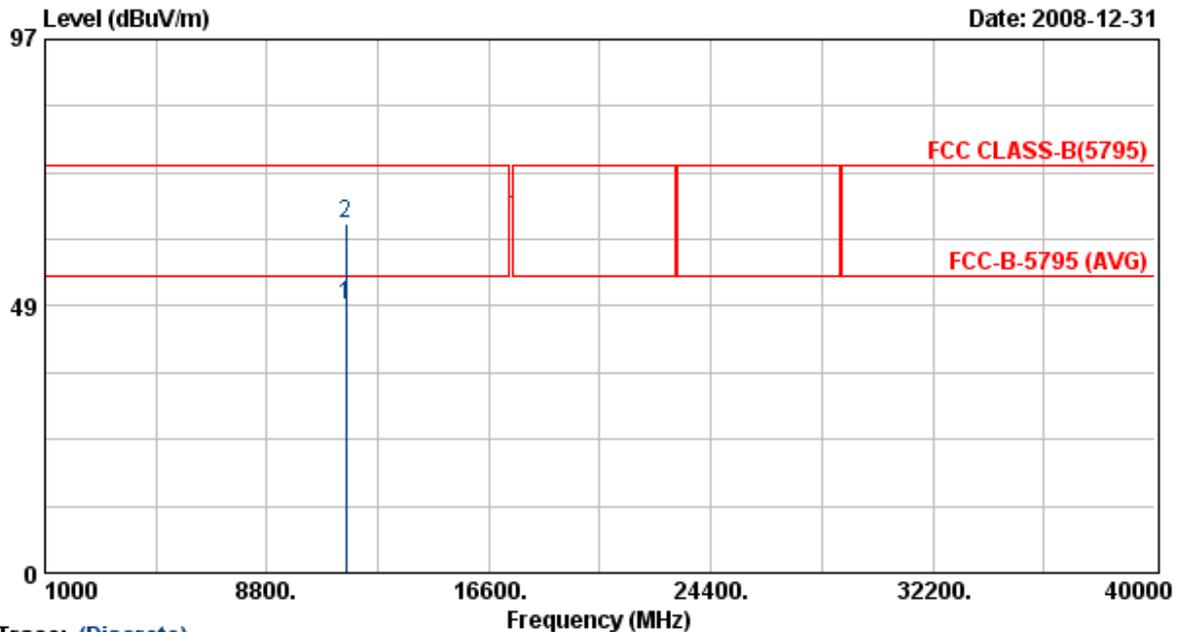
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11509.44	46.71	16.51	63.22	74.00	-10.78	Peak	100	179
2	11509.60	31.84	16.51	48.35	54.00	-5.65	Average	100	179

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH159	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

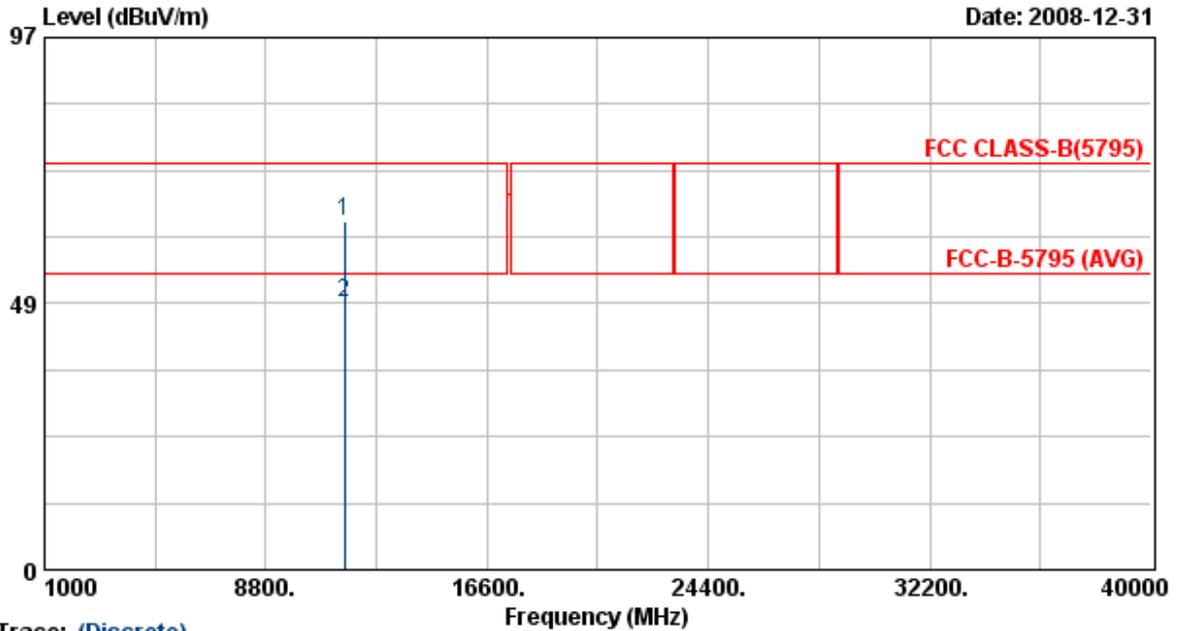
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11589.24	32.07	16.62	48.69	54.00	-5.31	Average	100	156
2	11590.62	46.75	16.63	63.38	74.00	-10.62	Peak	100	156

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH159	Temperature	: 24 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11589.12	46.82	16.62	63.45	74.00	-10.55	Peak	100	178
2	11591.98	32.13	16.63	48.75	54.00	-5.25	Average	100	178

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Test engineer: Ben



### 5.6 Test Photographs

Front View



Rear View





## 6. 6dB Bandwidth Measurement Data

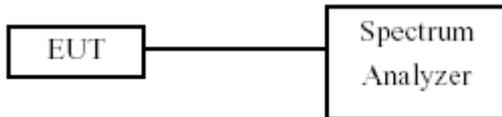
### 6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 6.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

### 6.3 Test Setup Layout



### 6.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21



### 6.5 Test Result and Data

Test Date: Dec. 14, 2008

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			Ant1	Ant2
802.11b (11Mbps)	01	2412	9.8	10.2
	06	2437	10.6	10.0
	11	2462	9.6	10.2
802.11g (54Mbps)	01	2412	16.4	16.4
	06	2437	16.4	16.5
	11	2462	16.5	16.3
			Ant3	Ant5
802.11n HT20 (130Mbps)	01	2412	17.6	17.6
	06	2437	17.6	17.6
	11	2462	17.6	17.6
802.11n HT40 (270Mbps)	03	2422	36.4	36.2
	06	2437	35.0	35.0
	09	2452	35.6	36.2

Test Date: Dec. 14, 2008

Temperature: 25

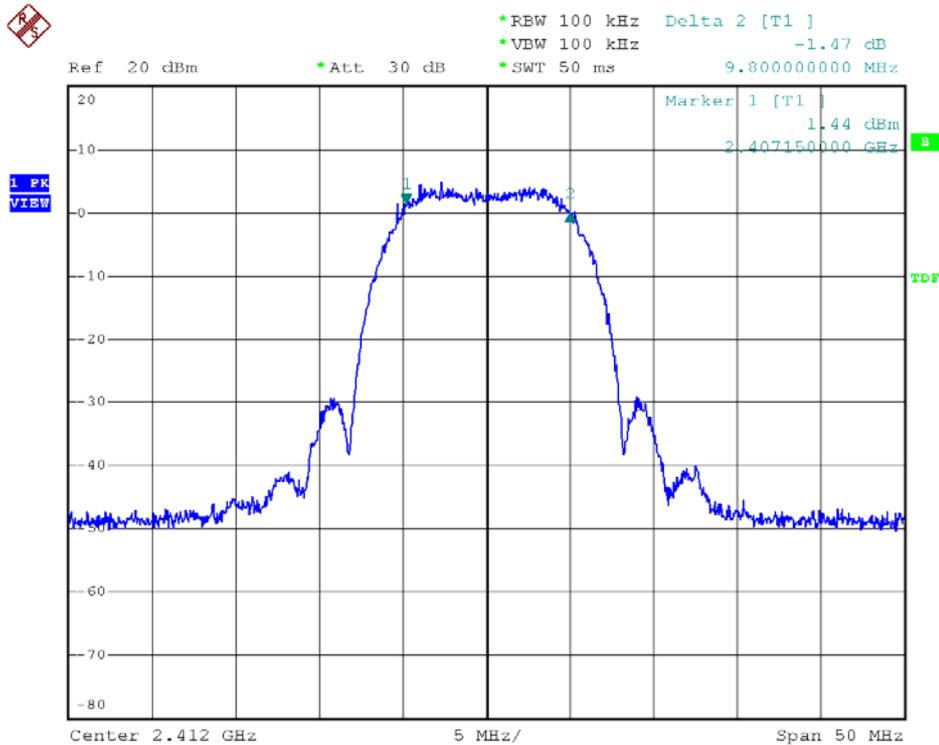
Atmospheric pressure: 1020 hPa

Humidity: 65%

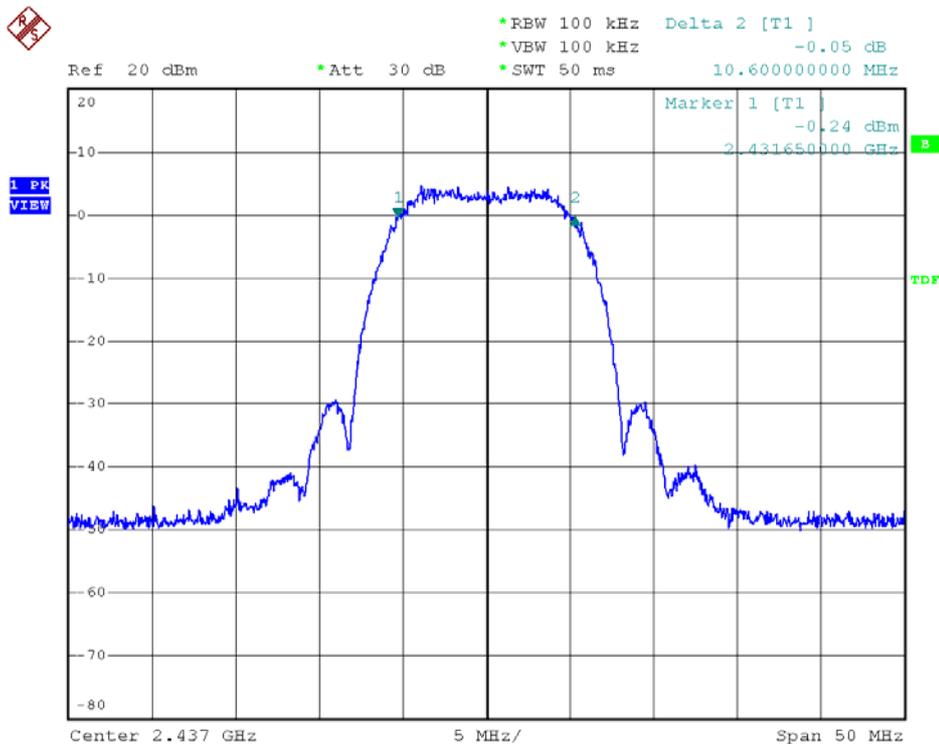
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			Ant3	Ant5
802.11a (54Mbps)	149	5745	16.4	16.5
	157	5785	16.5	16.5
	165	5825	16.5	16.6
802.11an HT20 (130Mbps)	149	5745	1.7	17.7
	157	5785	17.7	17.7
	165	5825	17.7	17.7
802.11an HT40 (270Mbps)	151	5755	36.0	36.0
	159	5795	35.4	36.0



Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 01

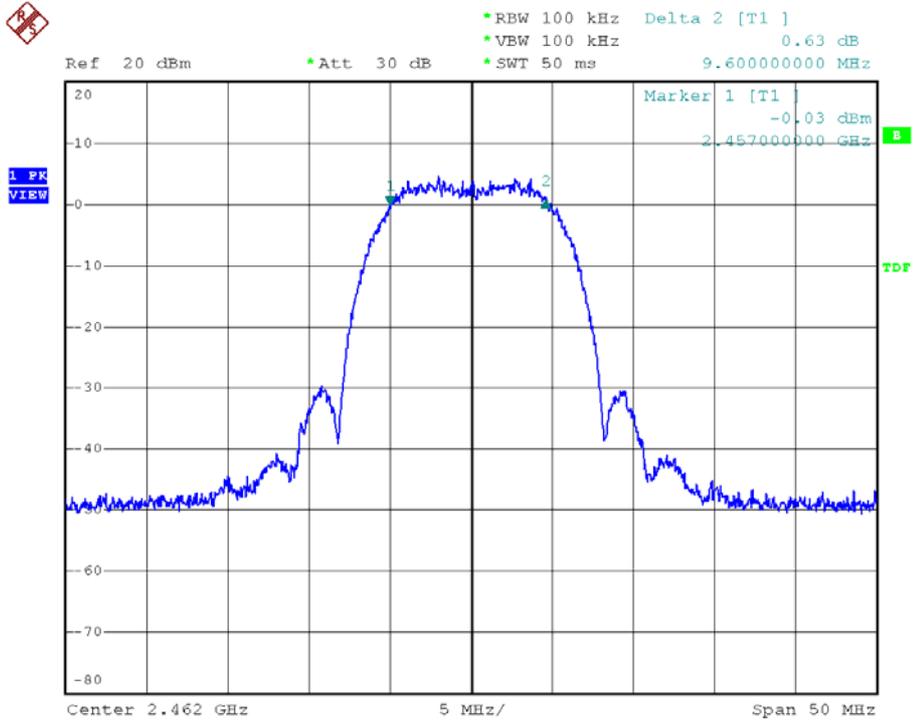


Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 06

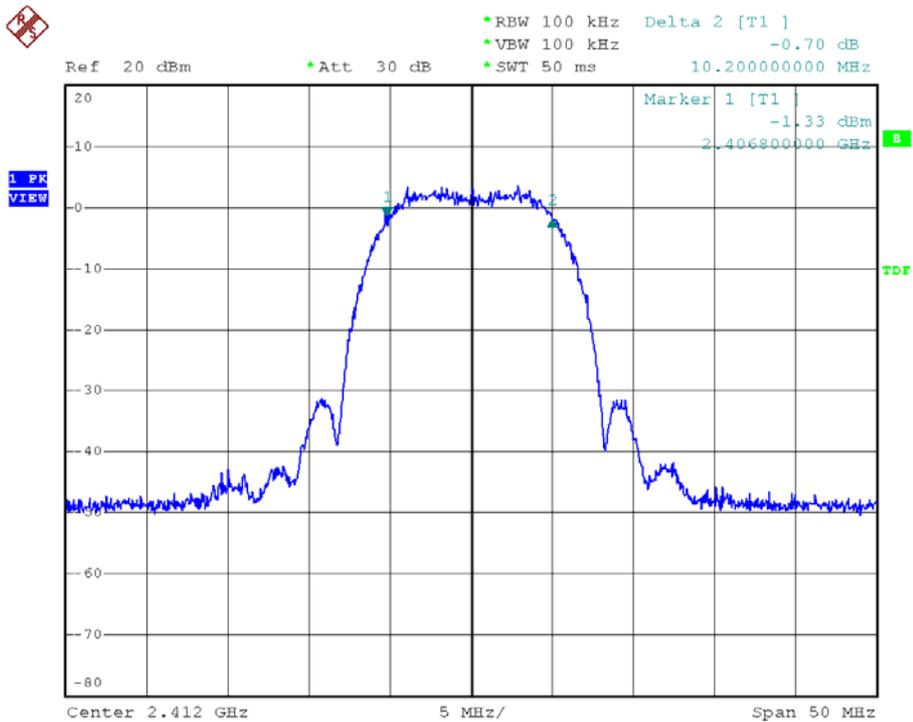




Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 11

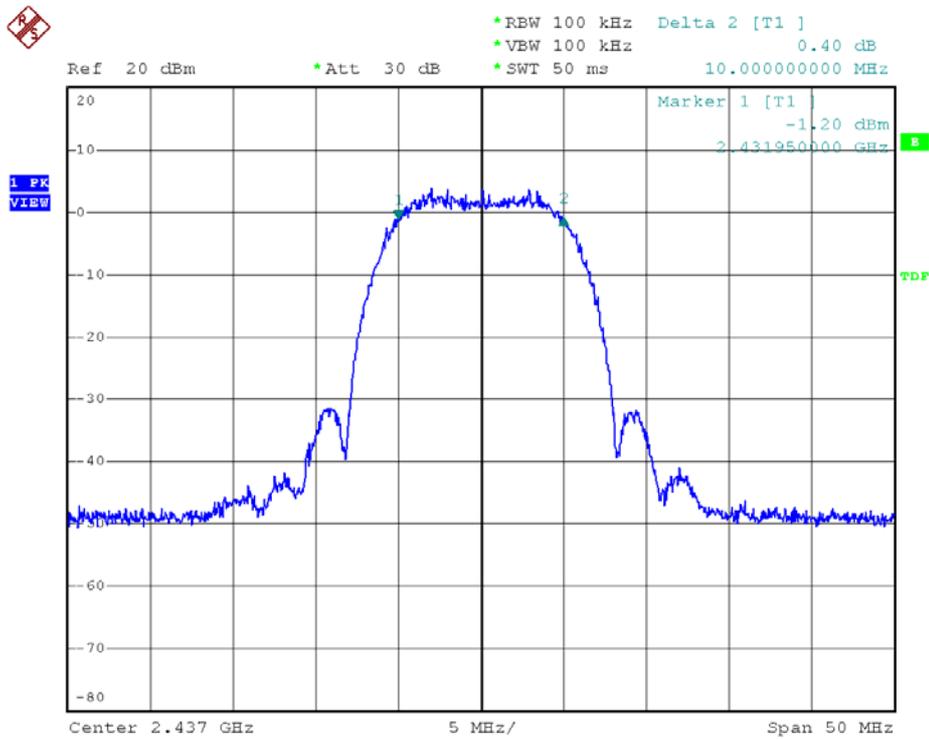


Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 01

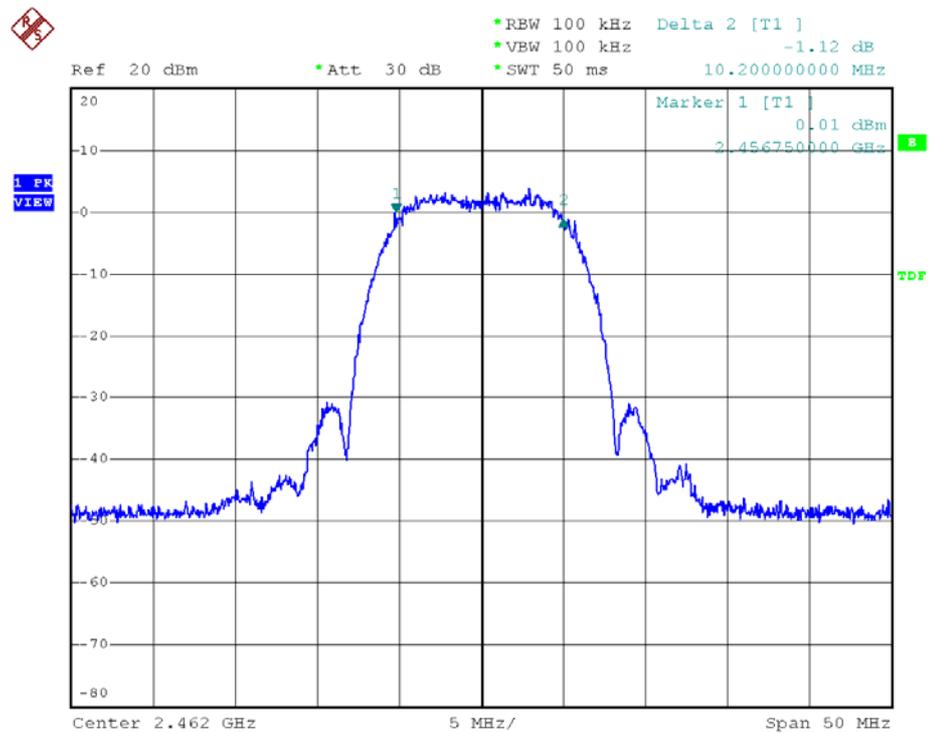




Modulation Standard: 802.11b (11Mbps), Antenna: R  
Channel: 06

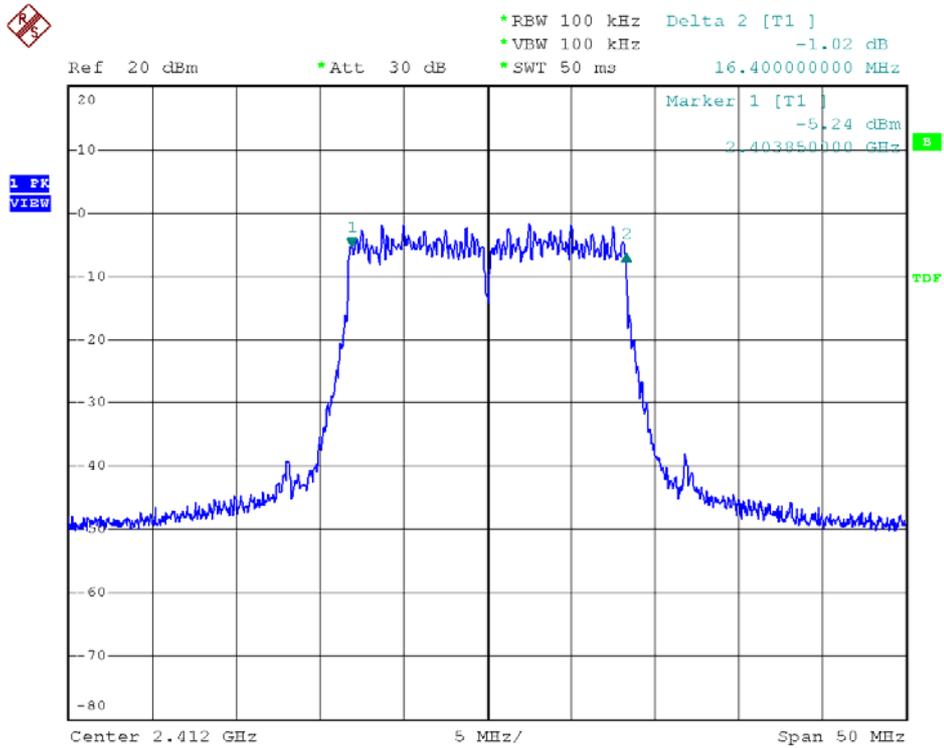


Modulation Standard: 802.11b (11Mbps), Antenna: R  
Channel: 11

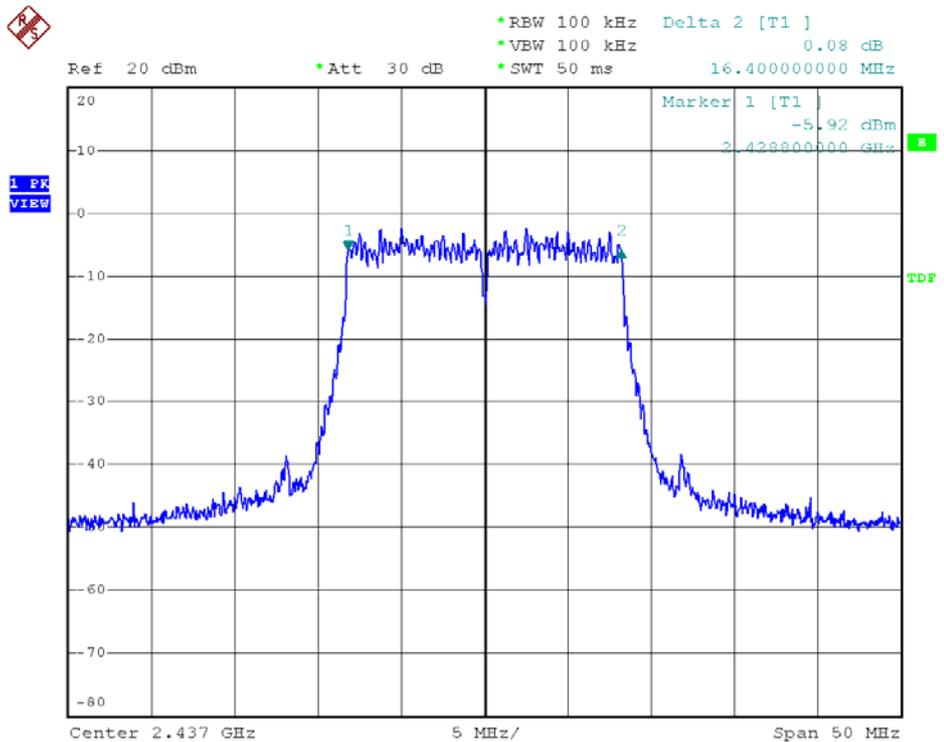




Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 01

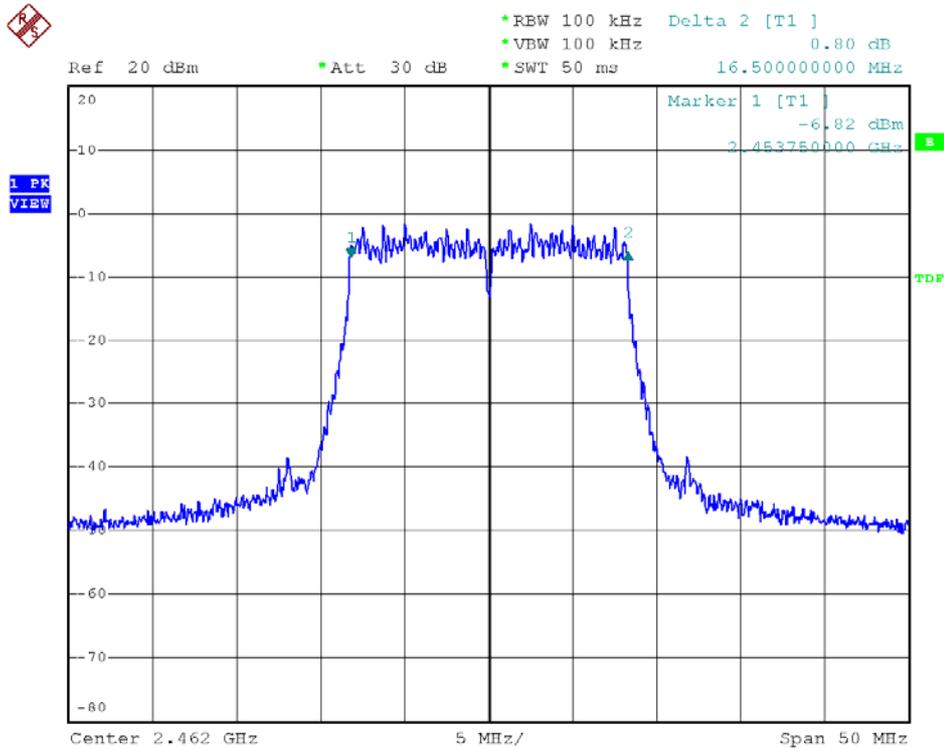


Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 06

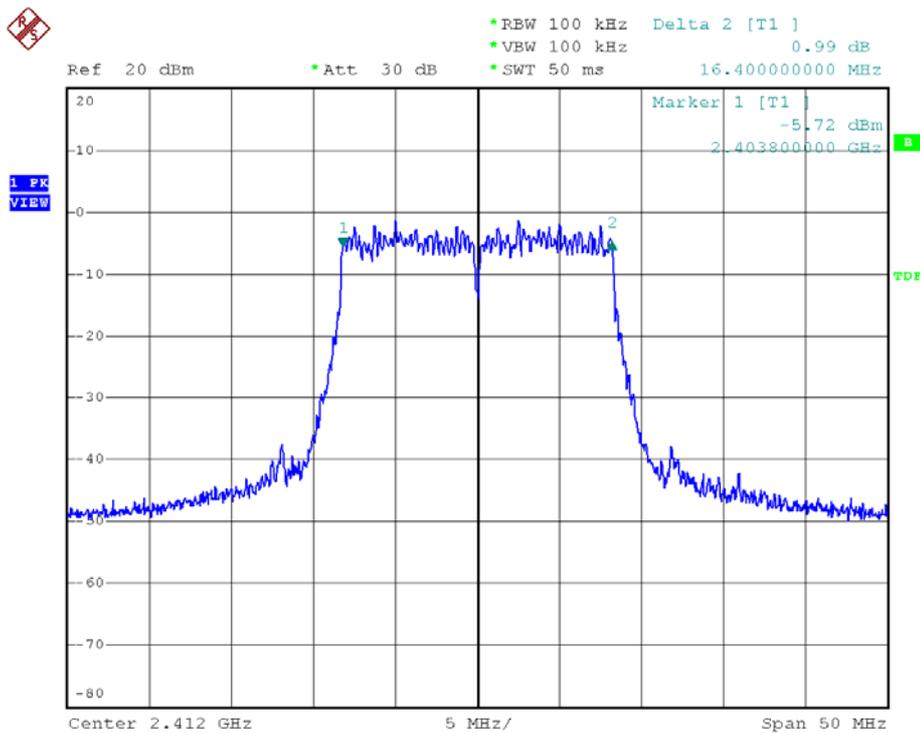




Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 11

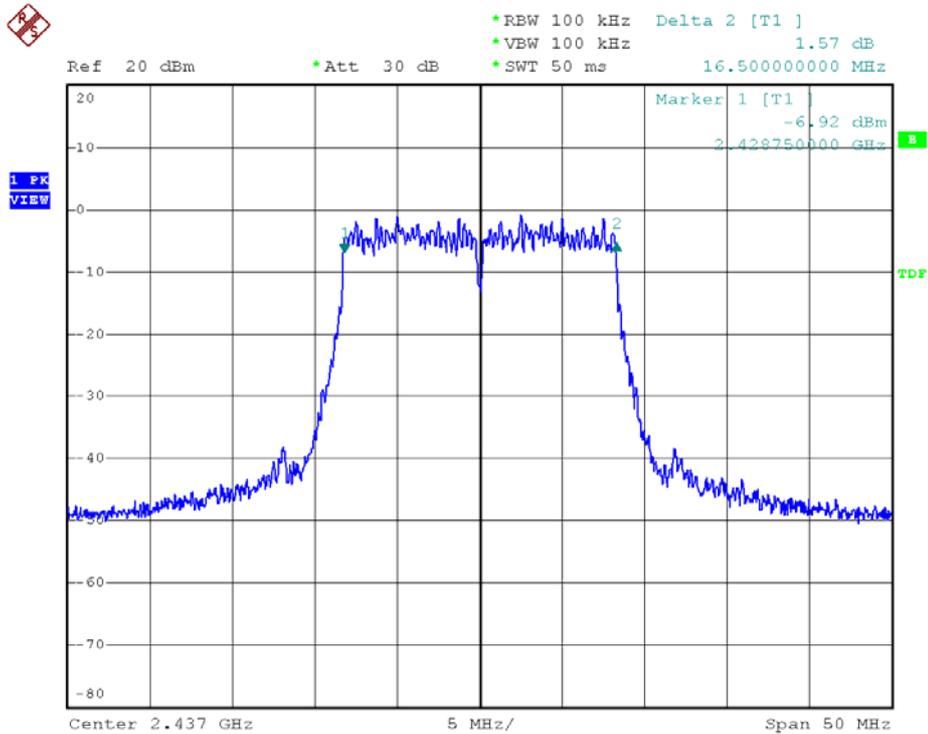


Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 01

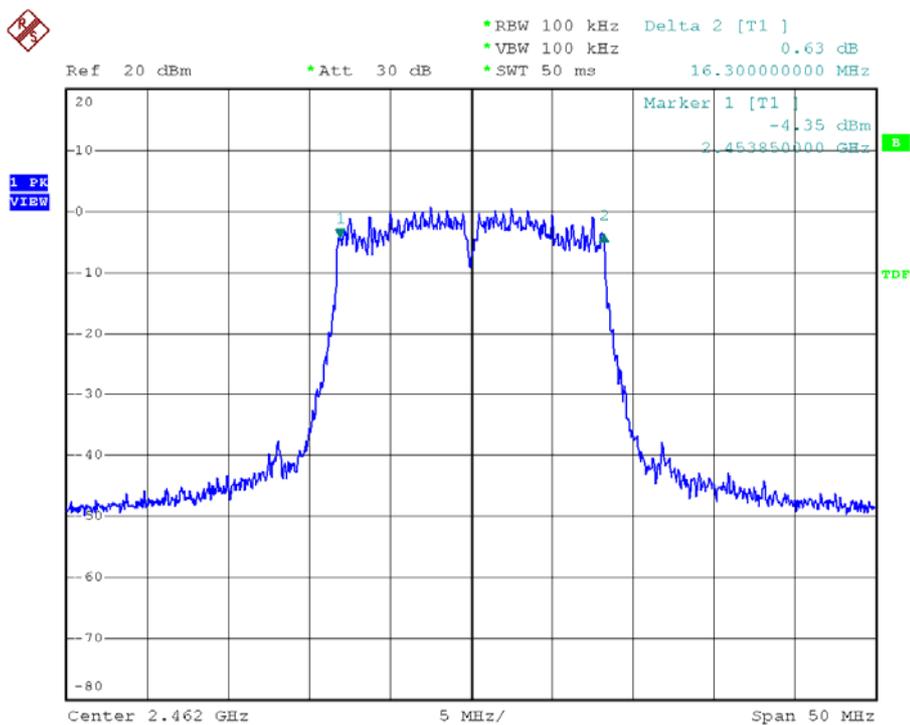




Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 06

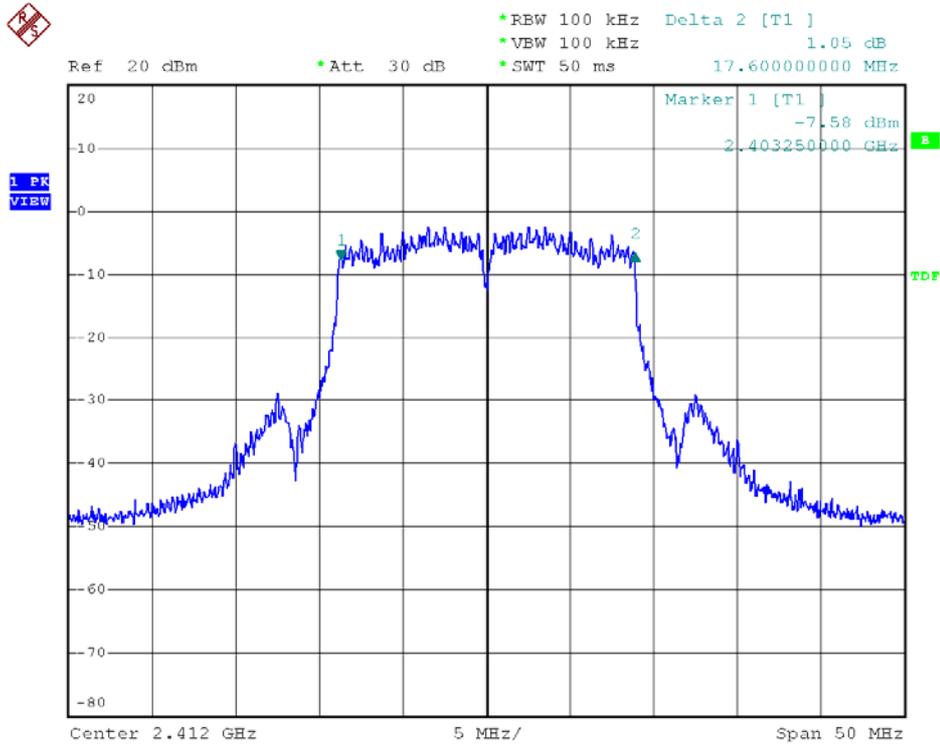


Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 11

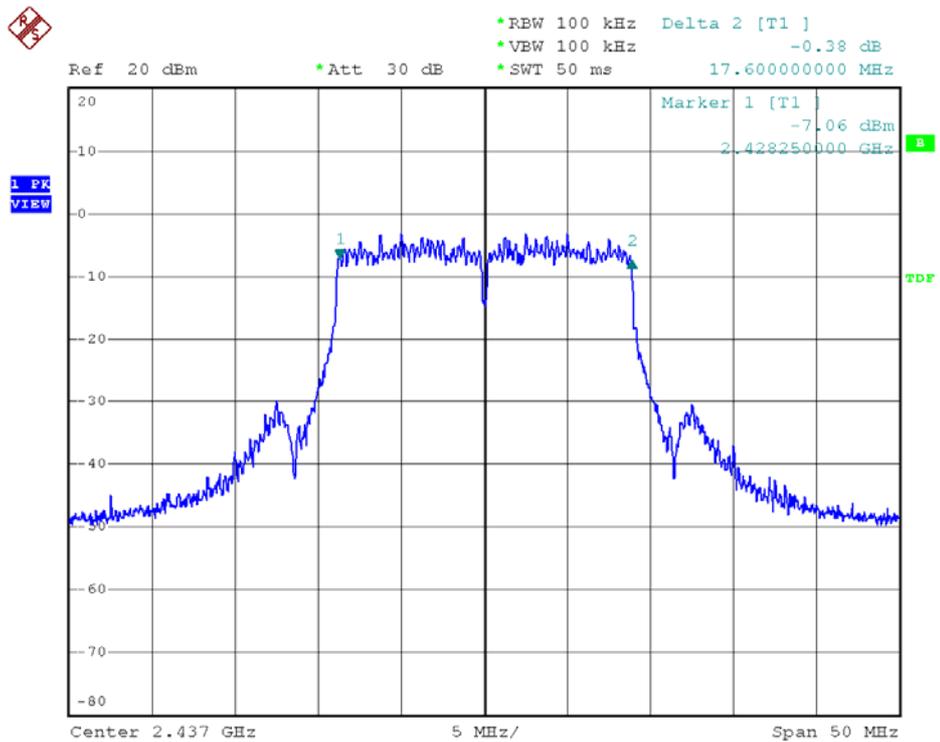




Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 01

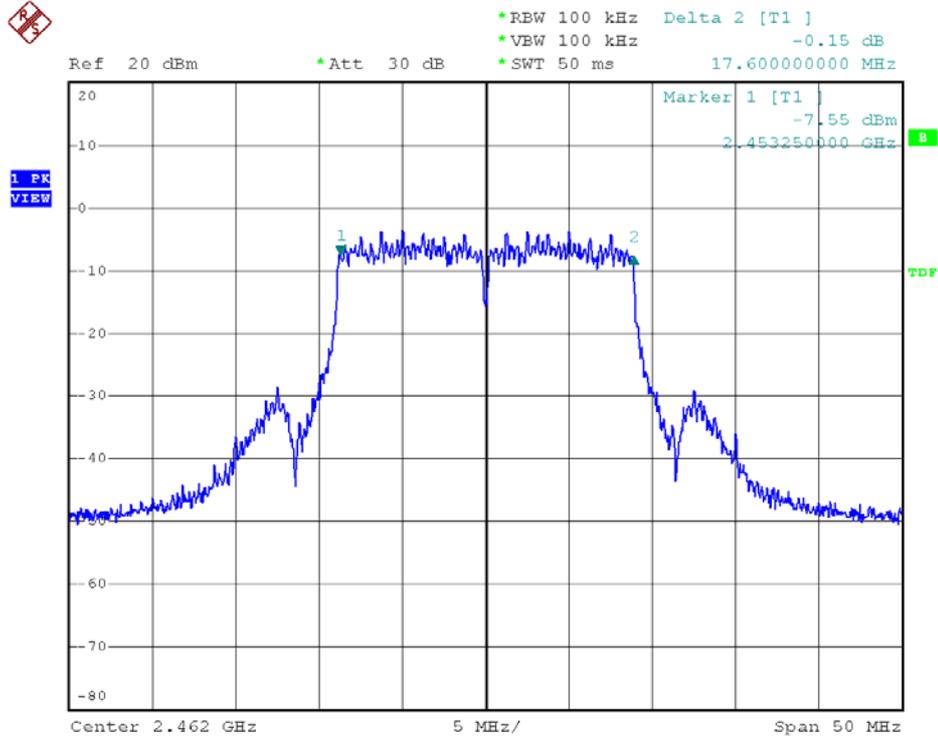


Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 06

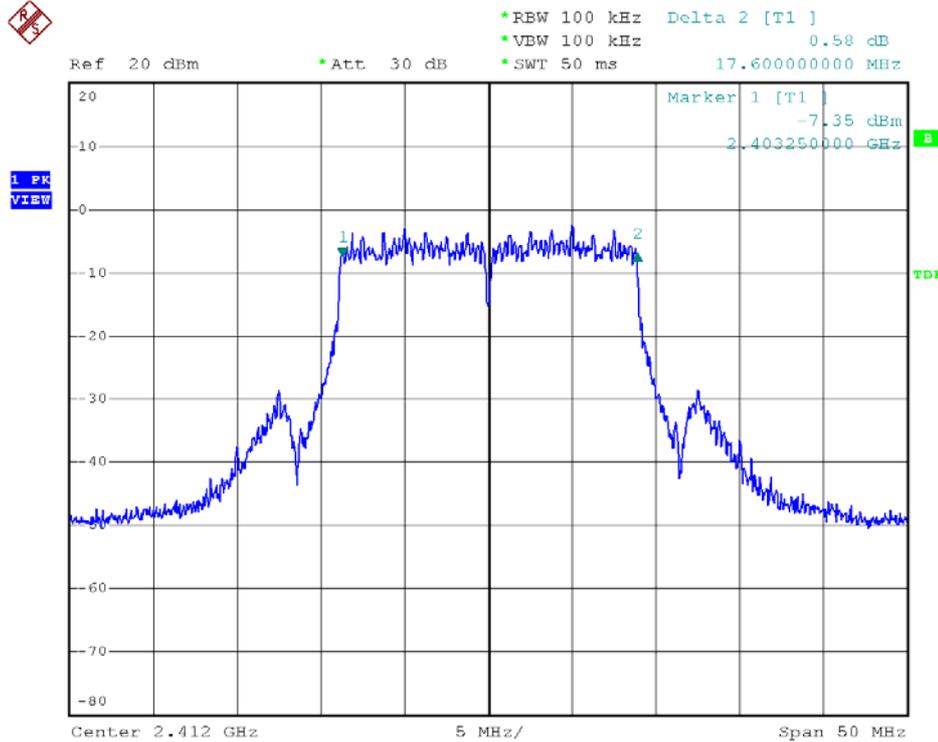




Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 11

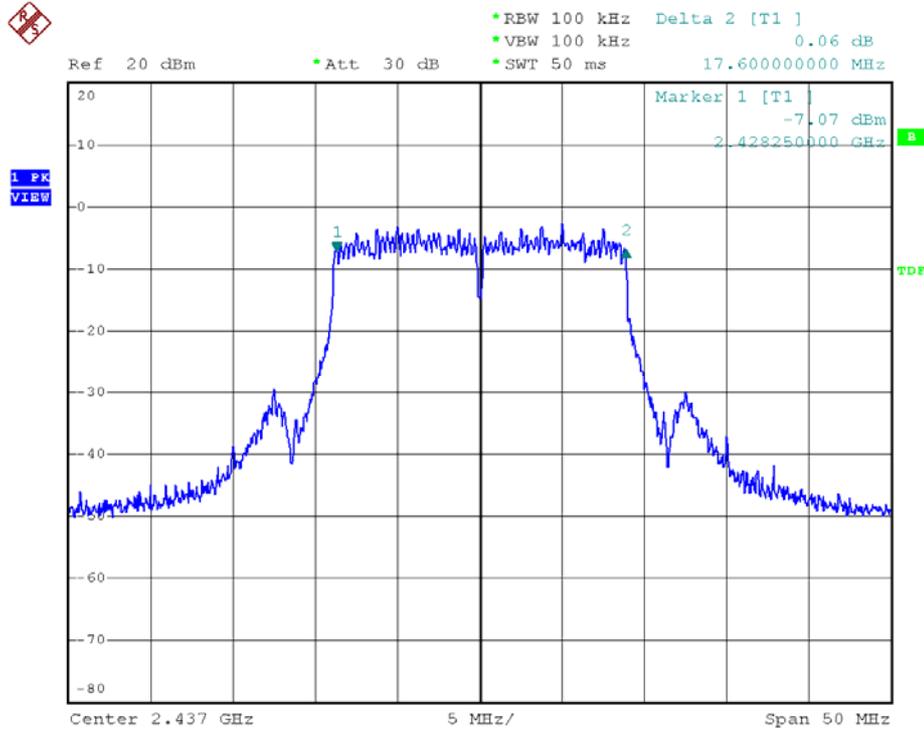


Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 01

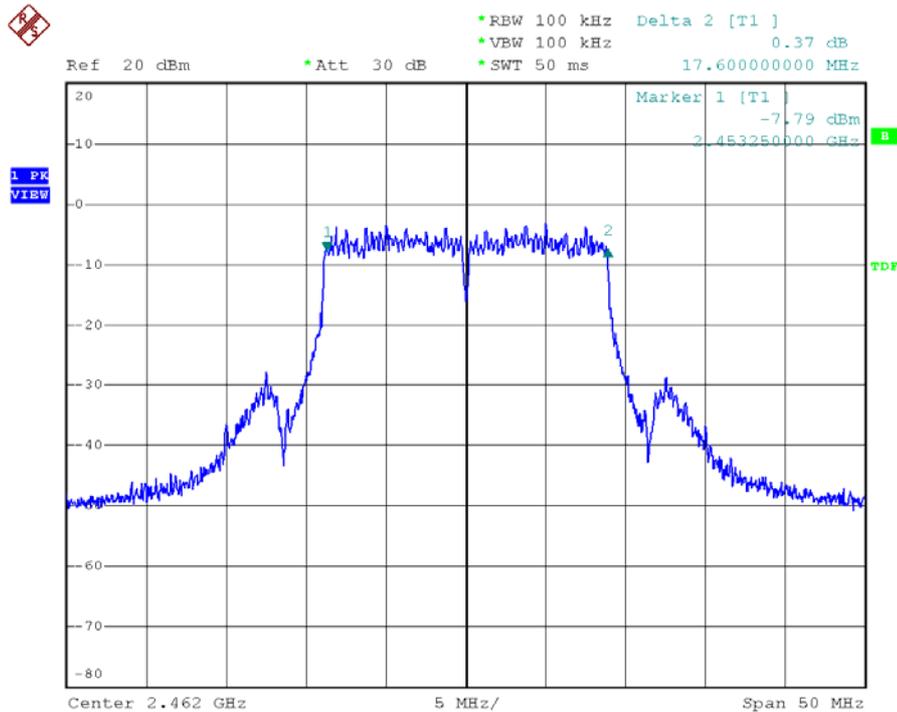




Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 06

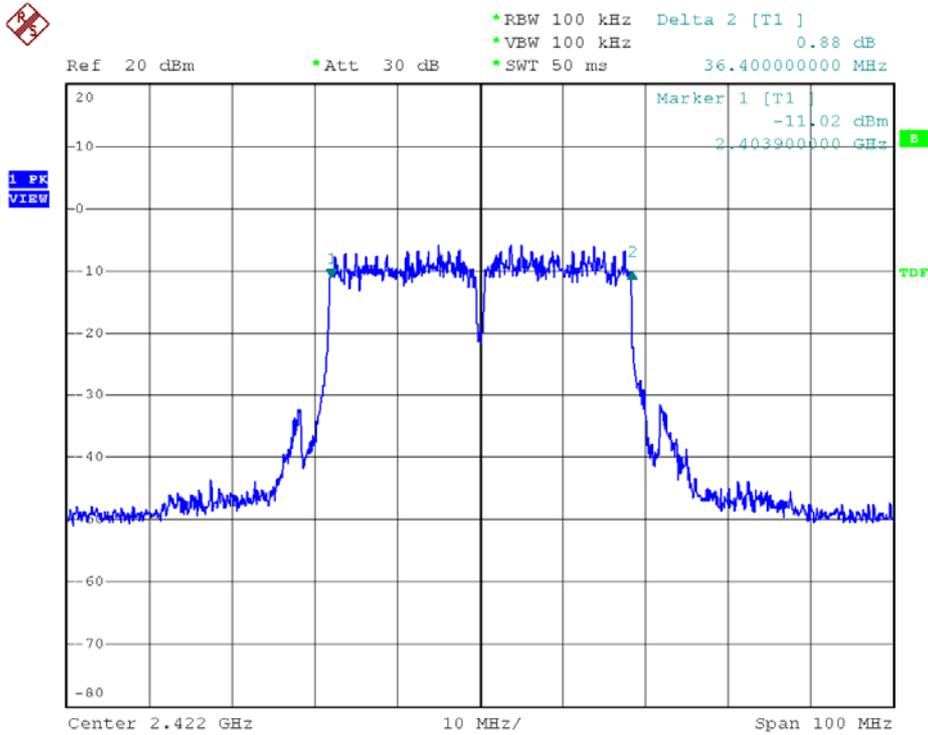


Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 11

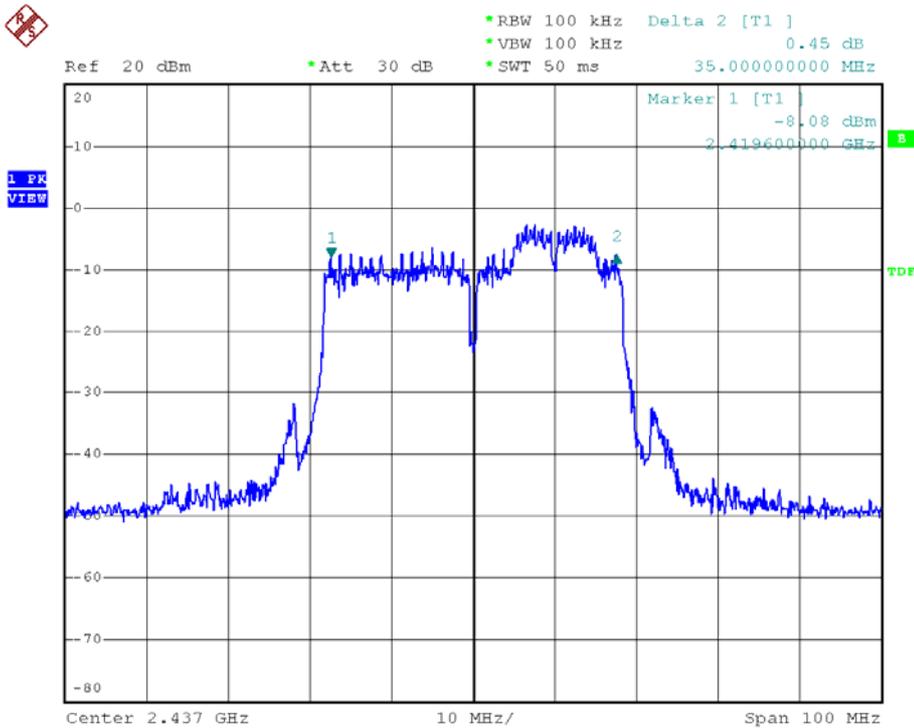




Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 03

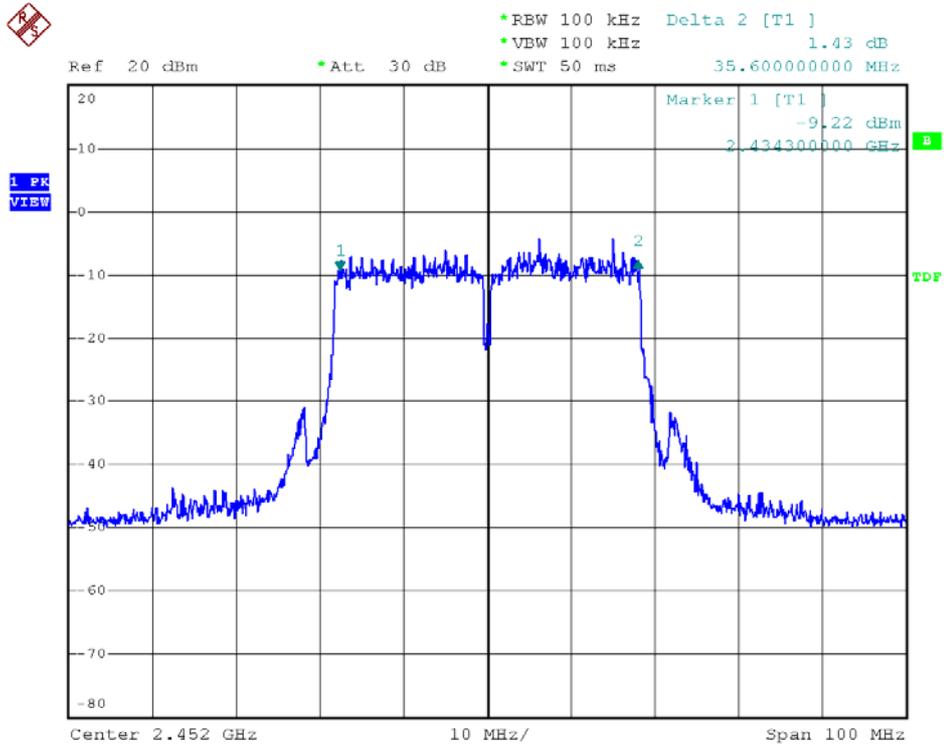


Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 06

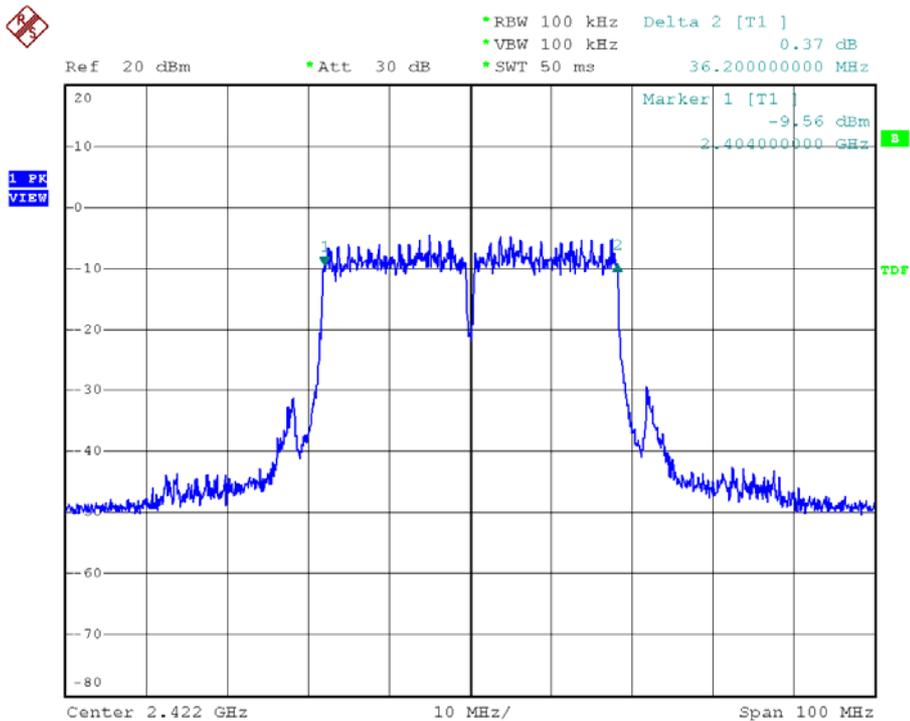




Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 09

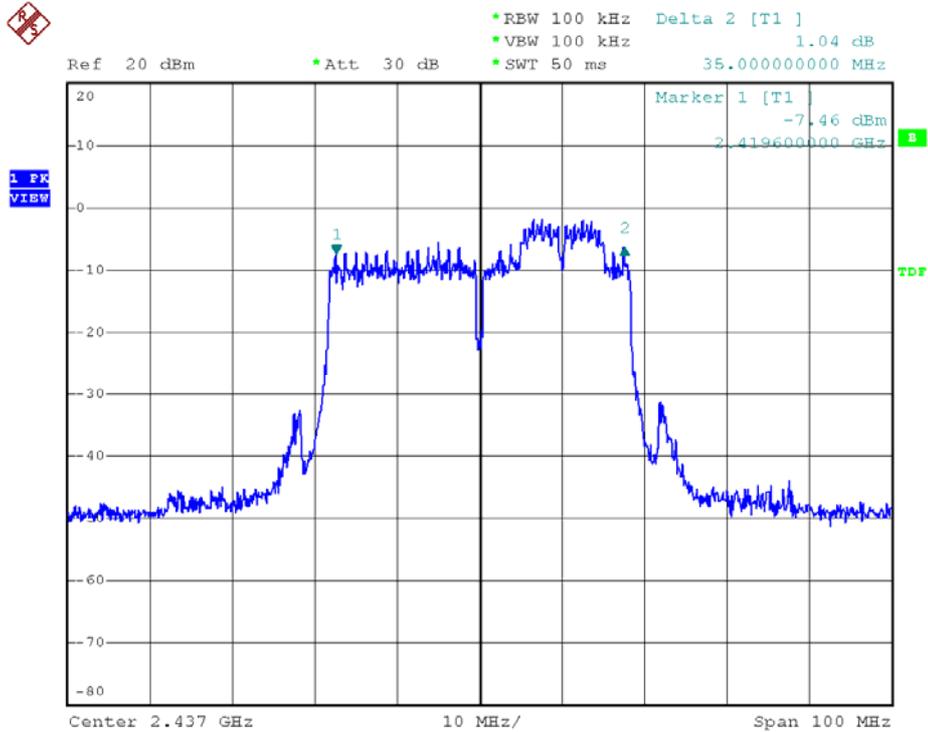


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 03

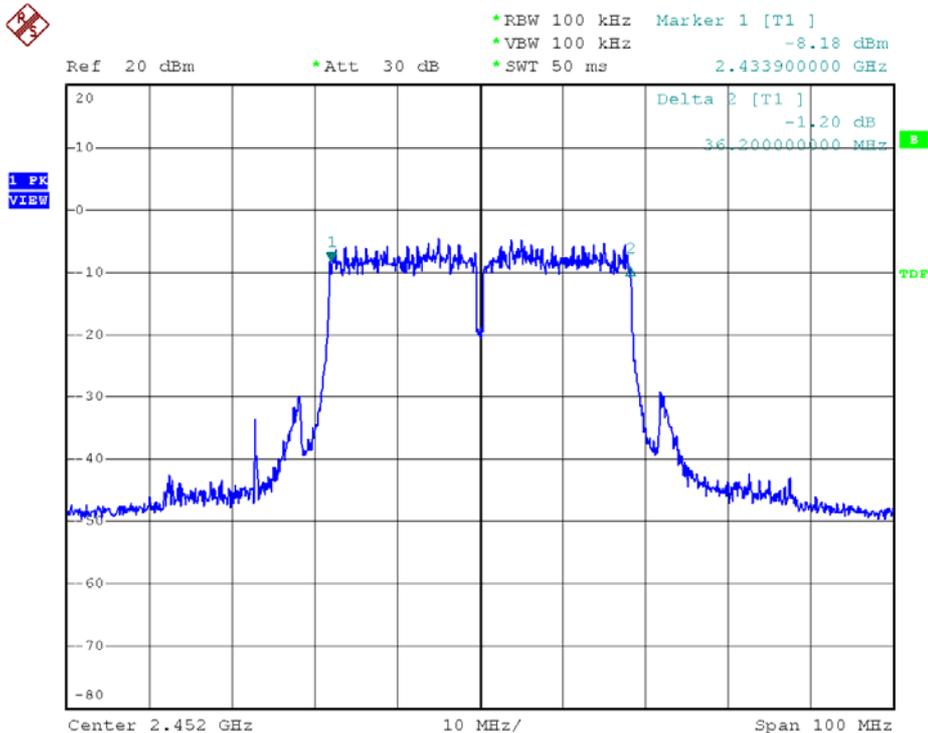




Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 06

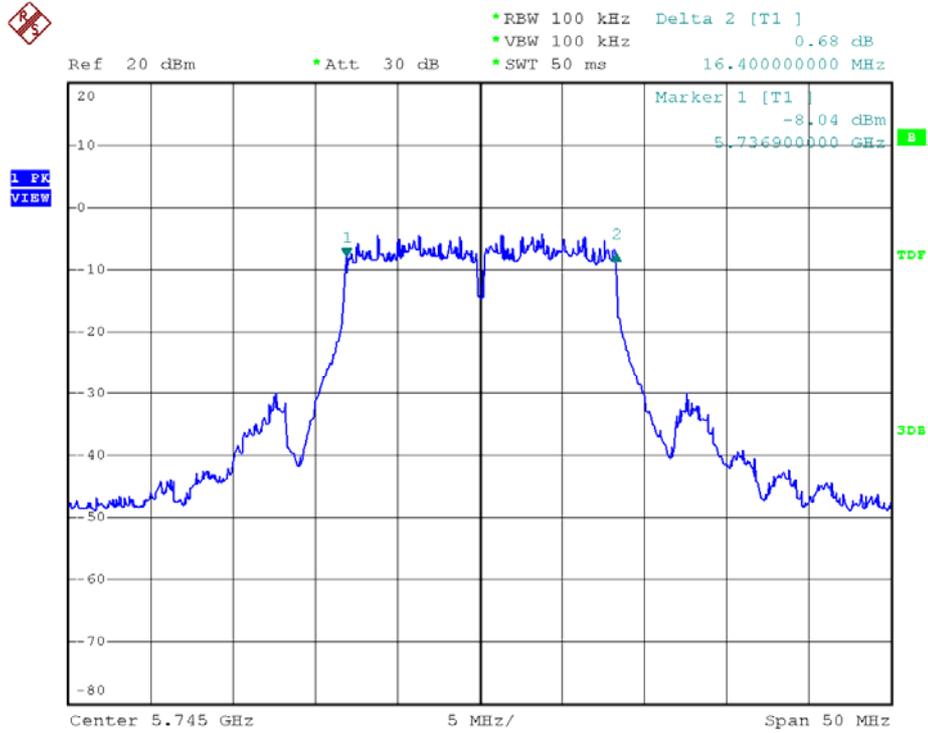


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 09

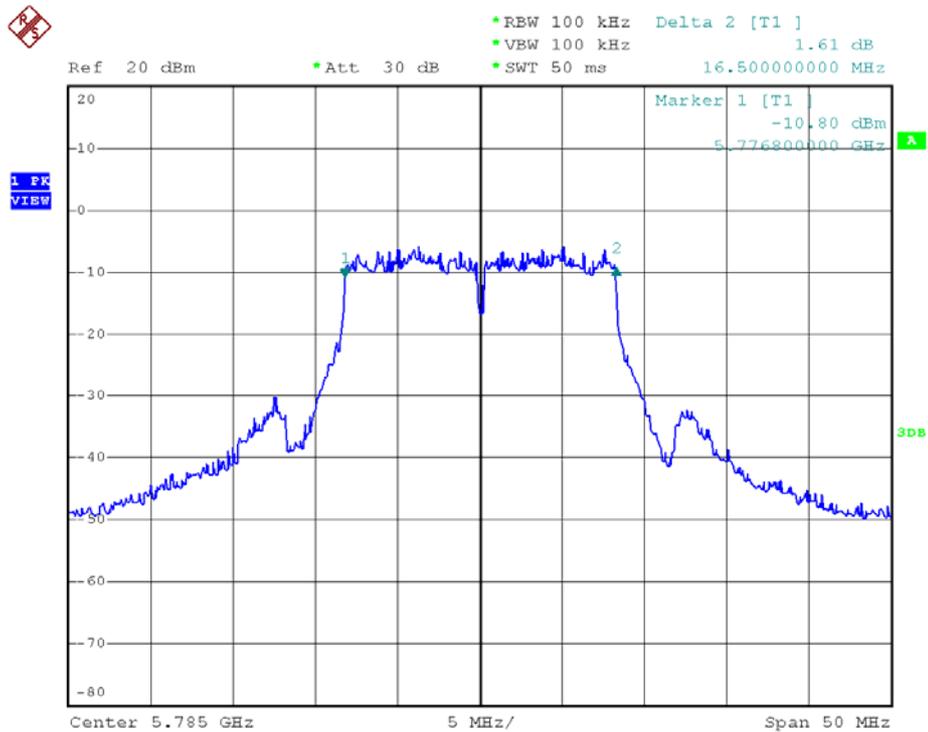




Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 149

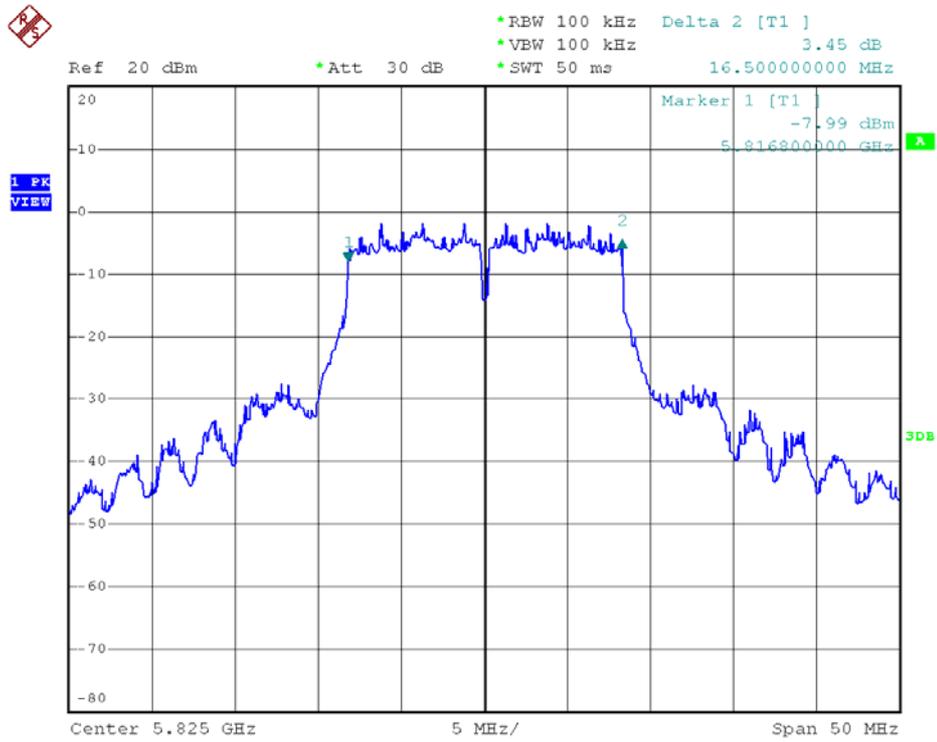


Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 157

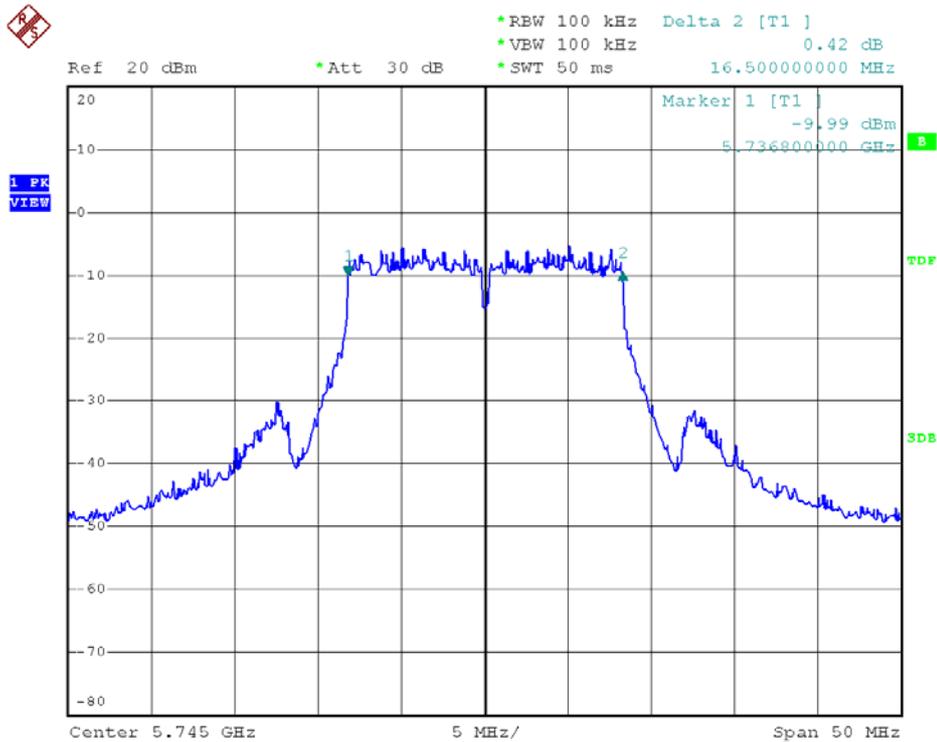




Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 165

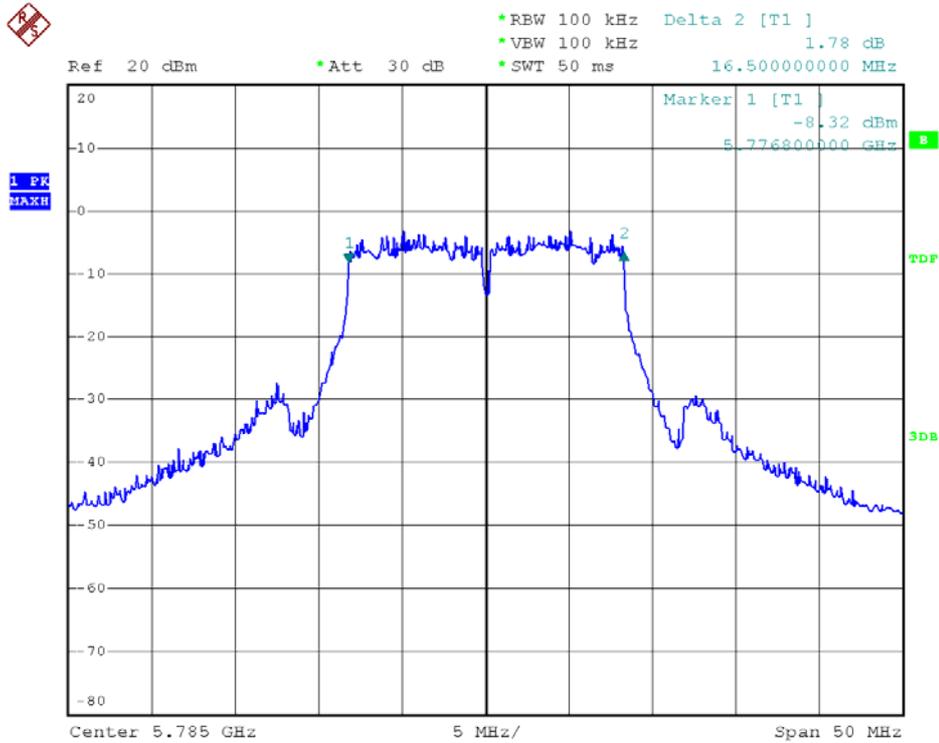


Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 149

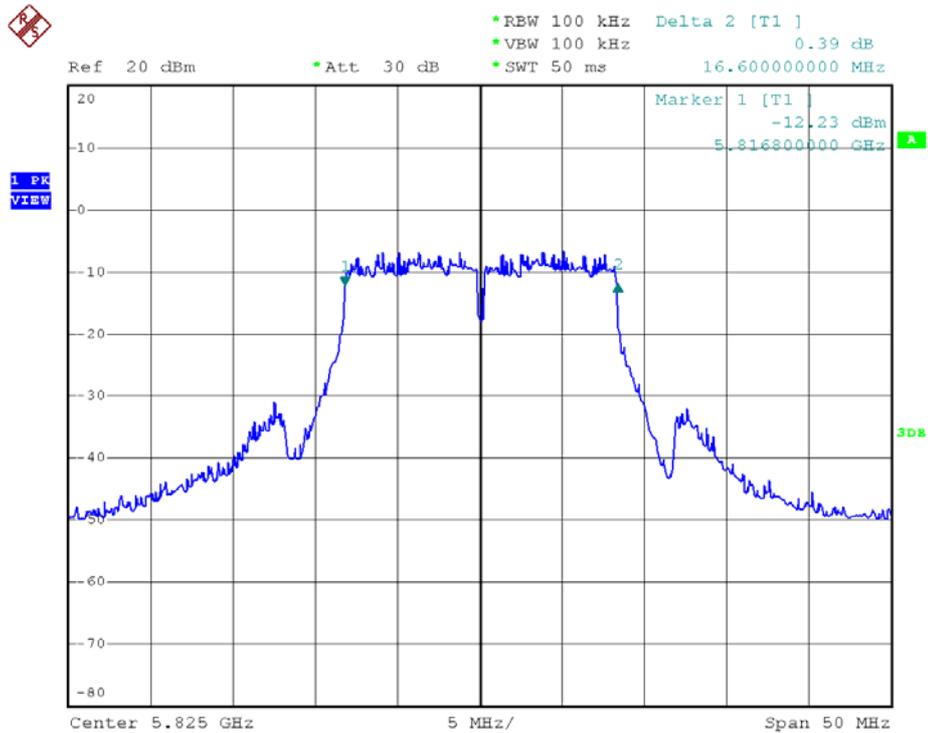




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Channel: 157

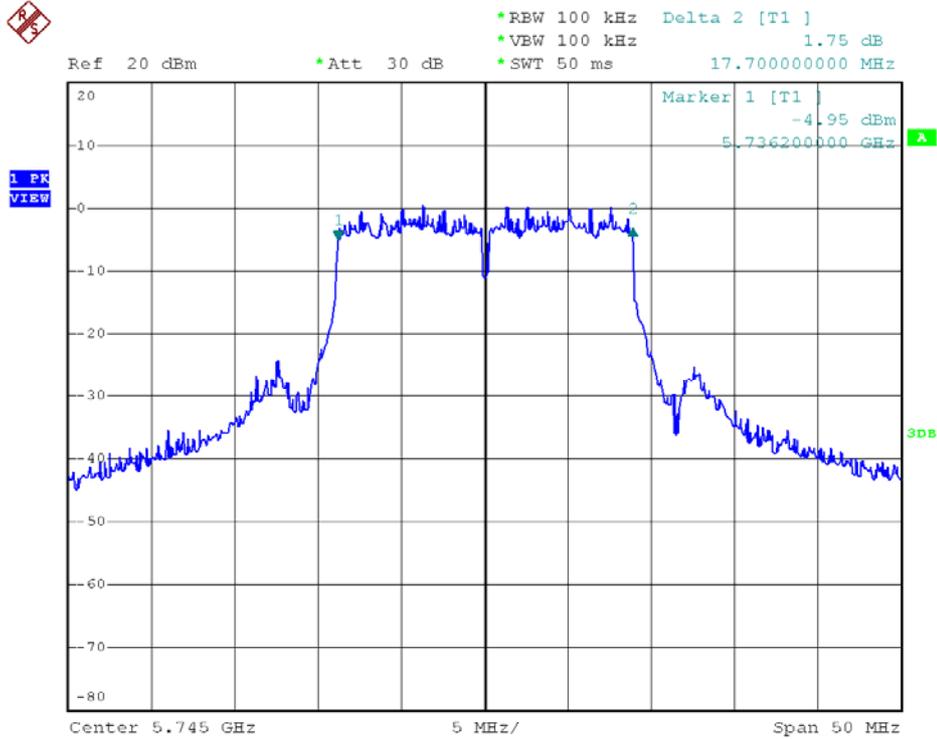


Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 165

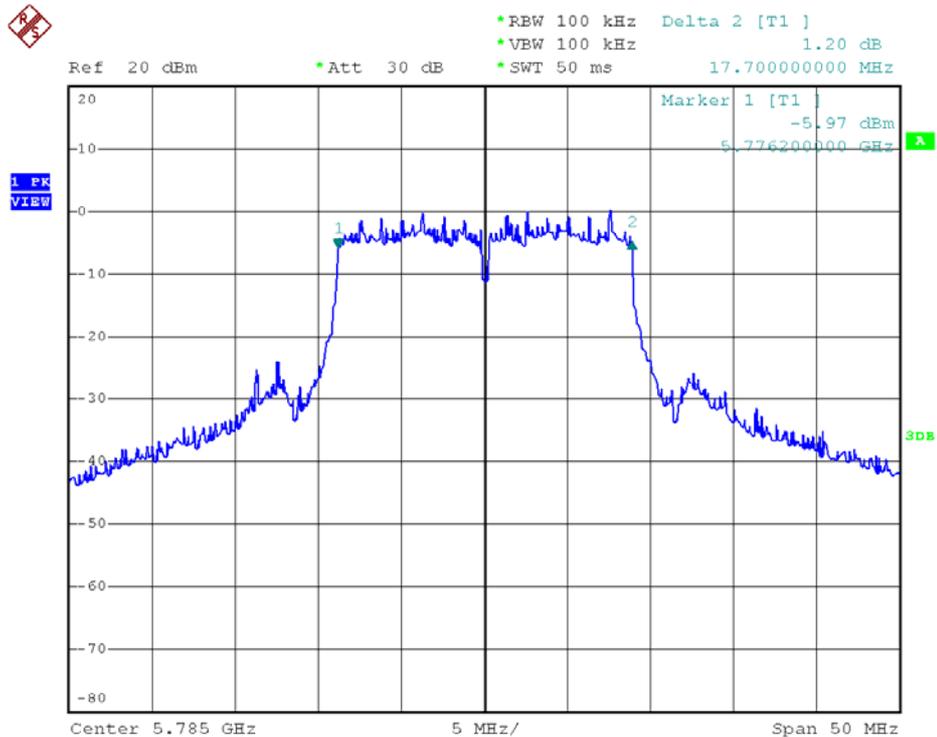




Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 149

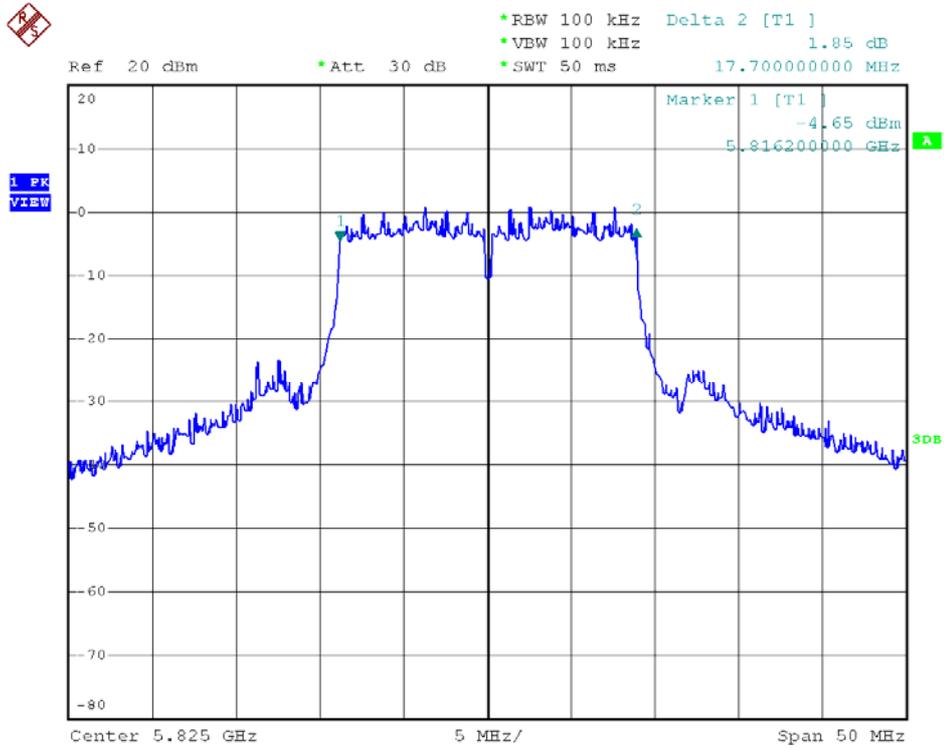


Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 157

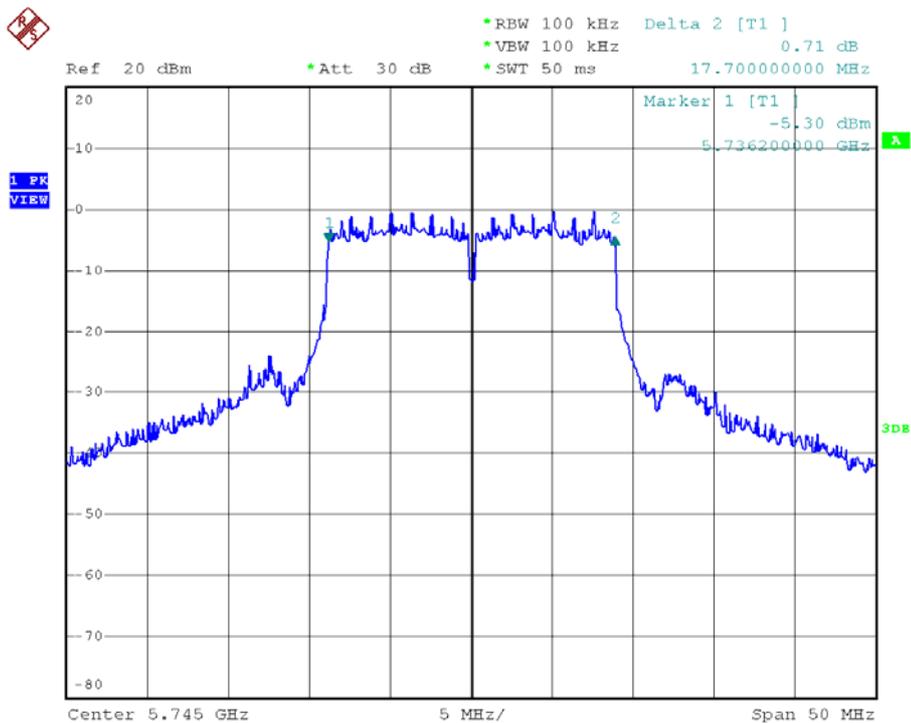




Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 165

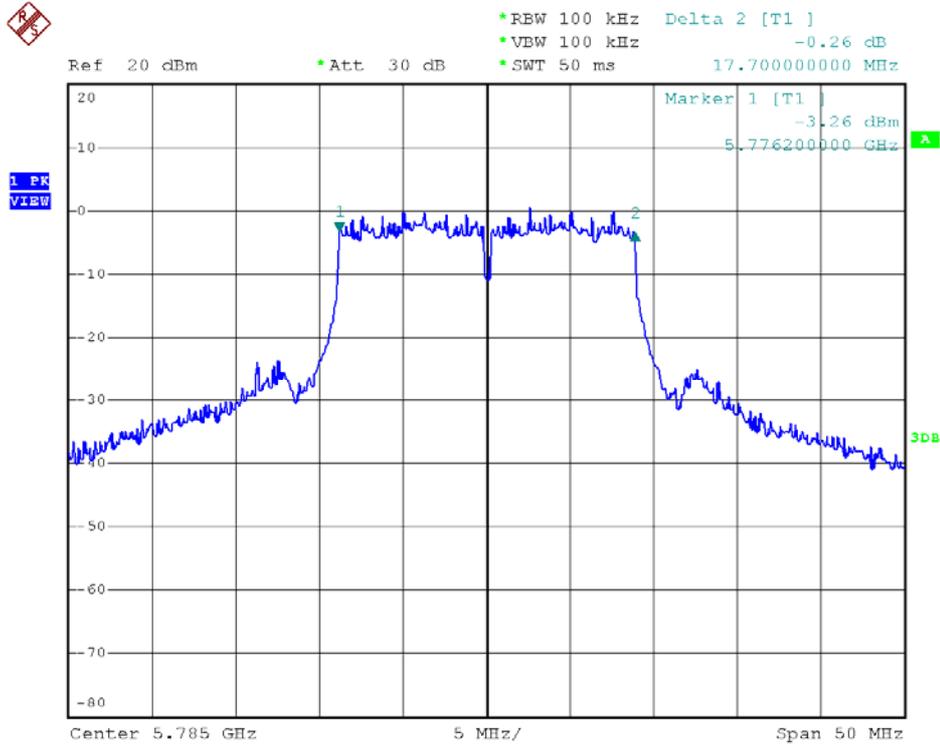


Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 149

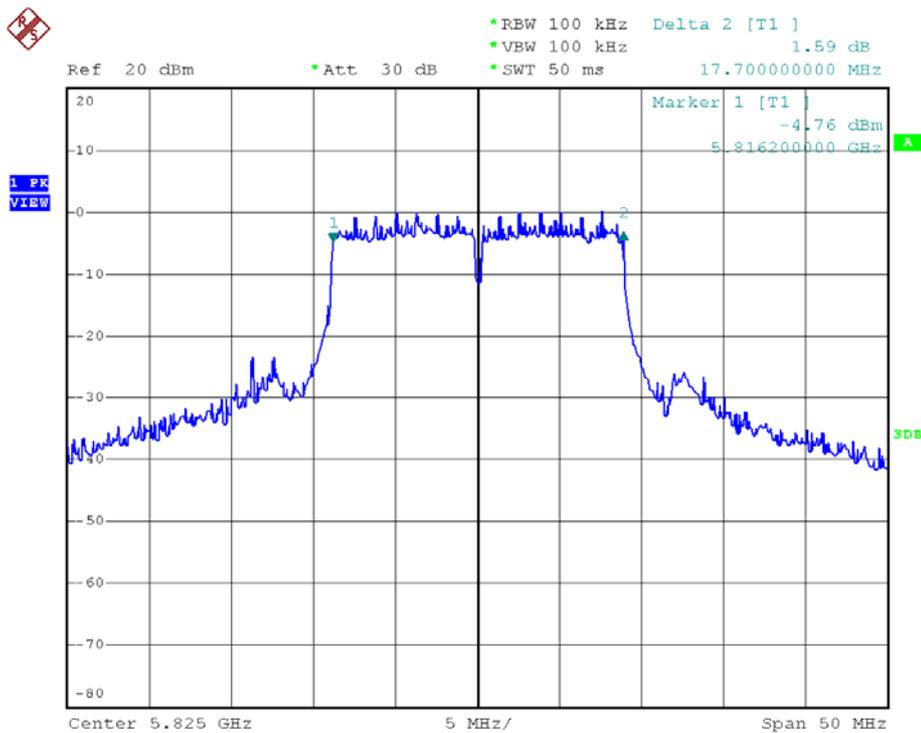




Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 157

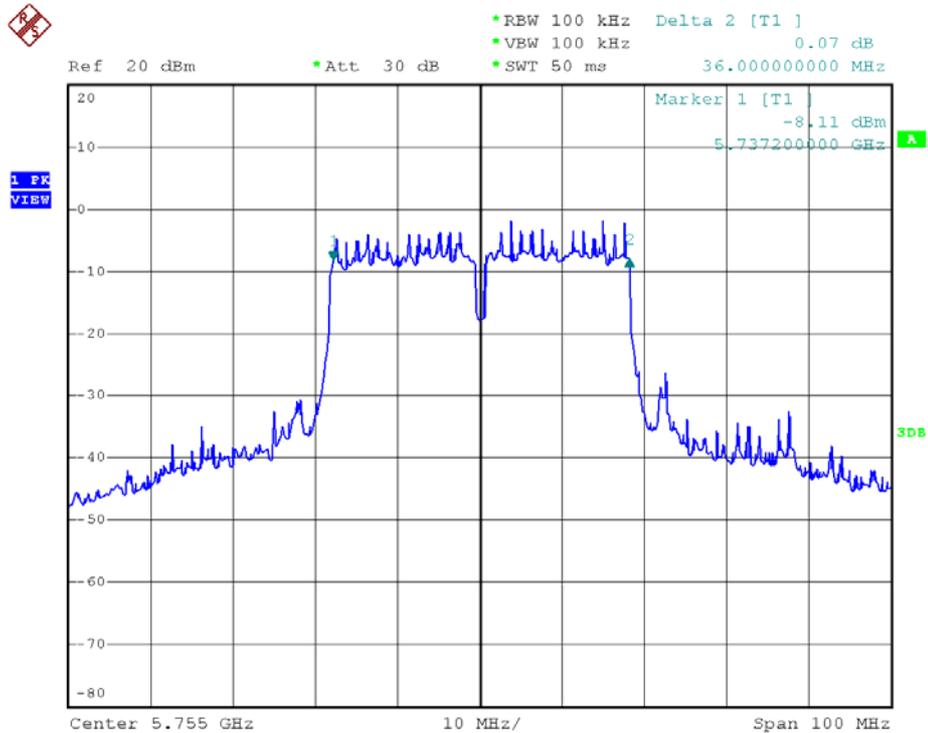


Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 165

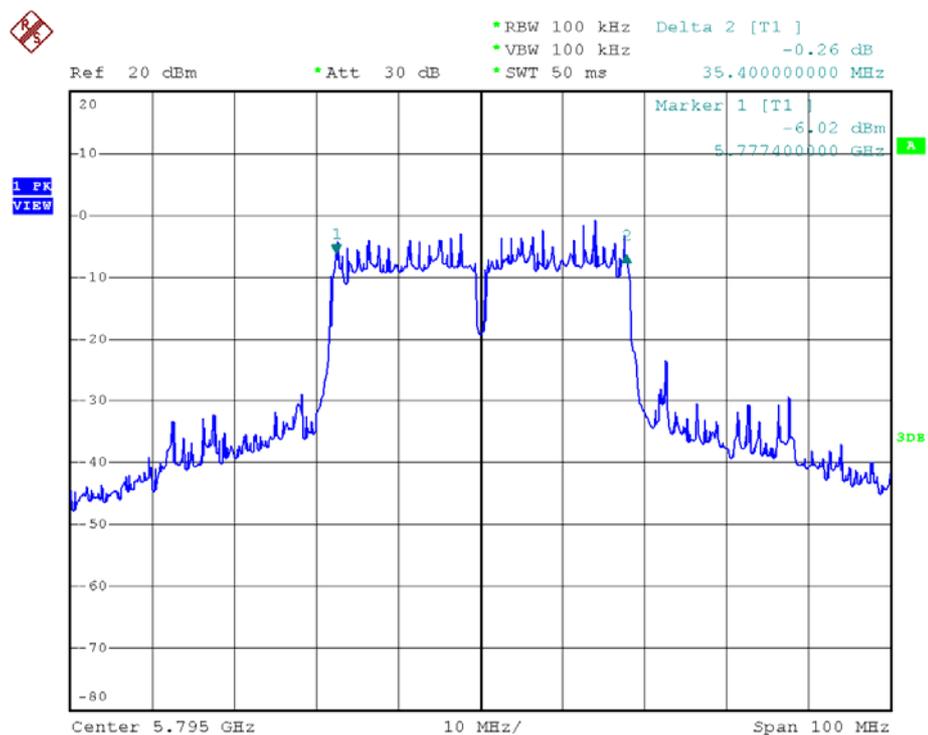




Modulation Standard: 802.11an HT40 (270Mbps), Ant3  
Channel: 151

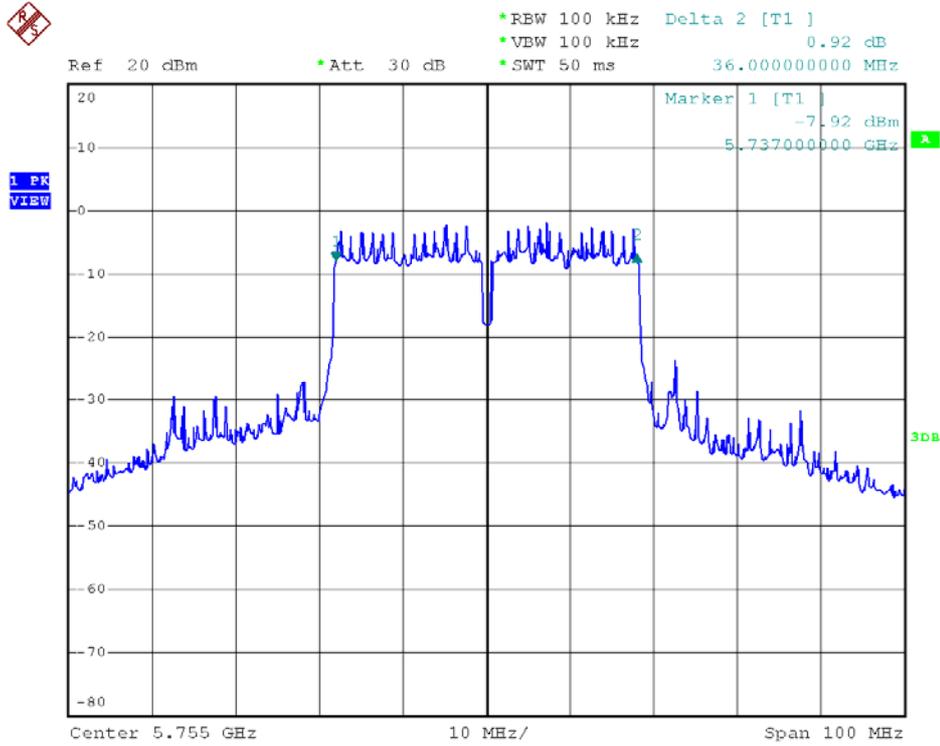


Modulation Standard: 802.11an HT40 (270Mbps), Ant3  
Channel: 159

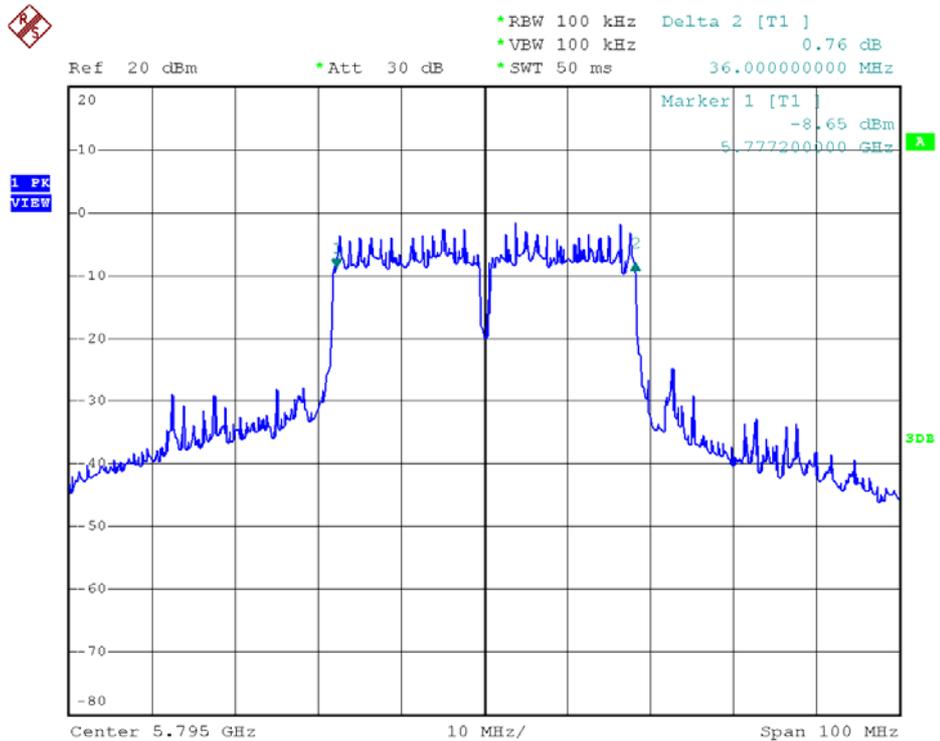




Modulation Standard: 802.11an HT40 (270Mbps), Ant5  
Channel: 151



Modulation Standard: 802.11an HT40 (270Mbps), Ant5  
Channel: 159





## 7. Maximum Peak Output Power

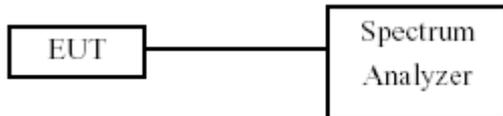
### 7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

### 7.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 7.3 Test Setup Layout



### 7.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21

### 7.5 Test Result and Data

Test Date: Dec. 14, 2008

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)	
			Ant1	Ant2	Ant1	Ant2
802.11b (11Mbps)	01	2412	20.44	19.40	110.70	87.10
	06	2437	20.57	19.10	114.00	81.30
	11	2462	20.04	18.60	100.90	72.40
802.11g (54Mbps)	01	2412	17.50	17.96	56.20	62.50
	06	2437	17.50	18.29	56.20	67.50
	11	2462	17.66	17.96	58.30	62.50



Test Date: Dec. 14, 2008

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			Ant3	Ant5	Ant3+5	Ant3+5
802.11n HT20 (130Mbps)	01	2412	16.49	16.69	19.60	91.23
	06	2437	16.42	16.80	19.62	91.72
	11	2462	16.80	16.36	19.60	91.11
802.11n HT40 (270Mbps)	03	2422	16.49	18.04	20.34	108.25
	06	2437	16.00	16.66	19.35	86.16
	09	2452	16.30	17.56	19.99	99.67

Test Date: Dec. 26, 2008

Temperature: 20

Atmospheric pressure: 1008 hPa

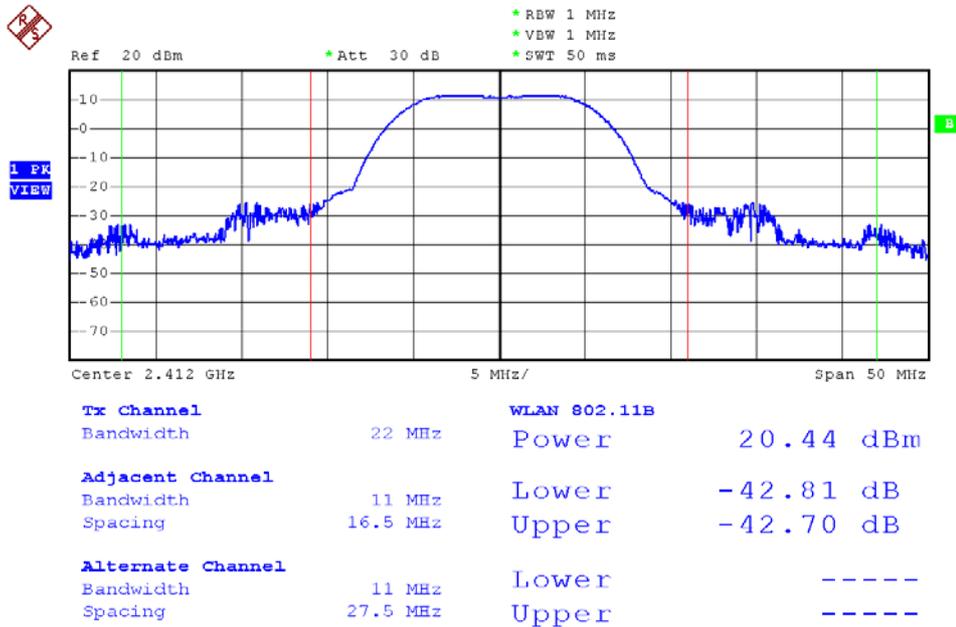
Humidity: 60%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)	
			Ant3	Ant5	Ant3	Ant5
802.11a (54Mbps)	149	5745	13.35	13.38	21.6	21.8
	157	5785	13.40	13.35	21.9	21.6
	165	5825	13.52	13.33	22.5	21.5

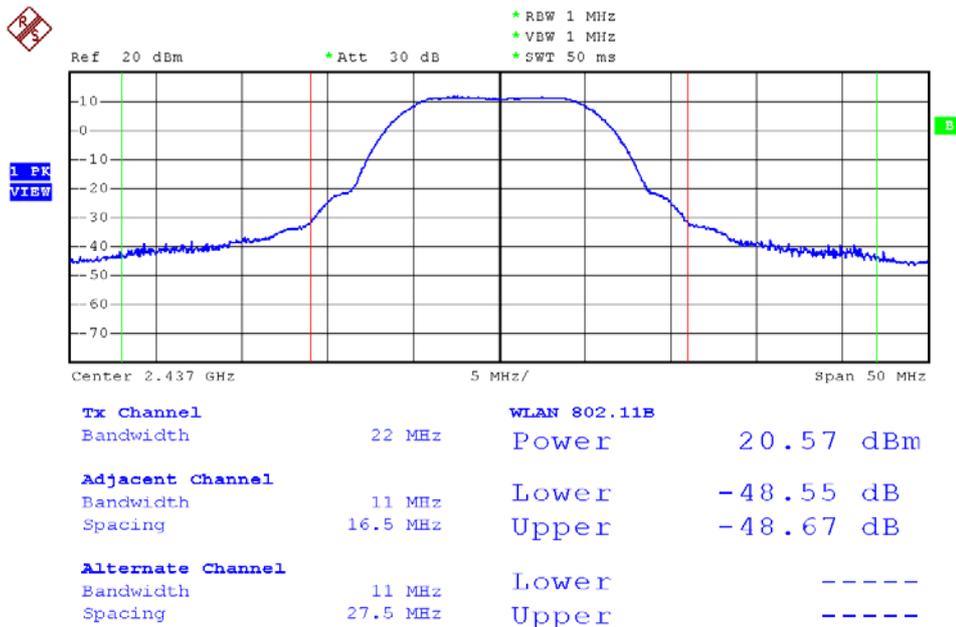
Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			Ant3	Ant5	Ant3+5	Ant3+5
802.11an HT20 (130Mbps)	149	5745	13.11	13.03	16.08	40.56
	157	5785	13.00	13.17	16.10	40.70
	165	5825	13.01	13.44	16.24	42.08
802.11an HT40 (270Mbps)	151	5755	13.01	13.21	16.12	40.94
	159	5795	12.68	13.31	16.02	39.96



Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 01

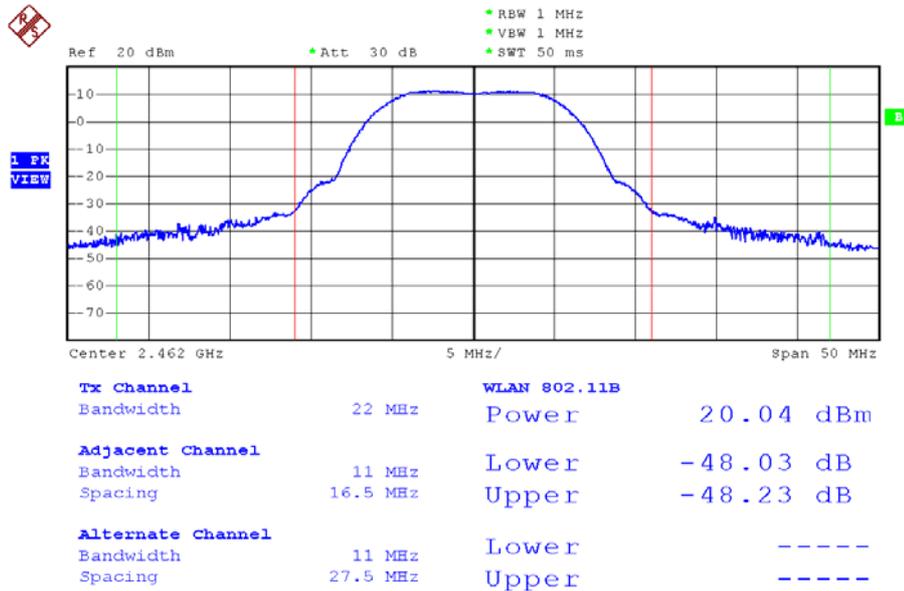


Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 06

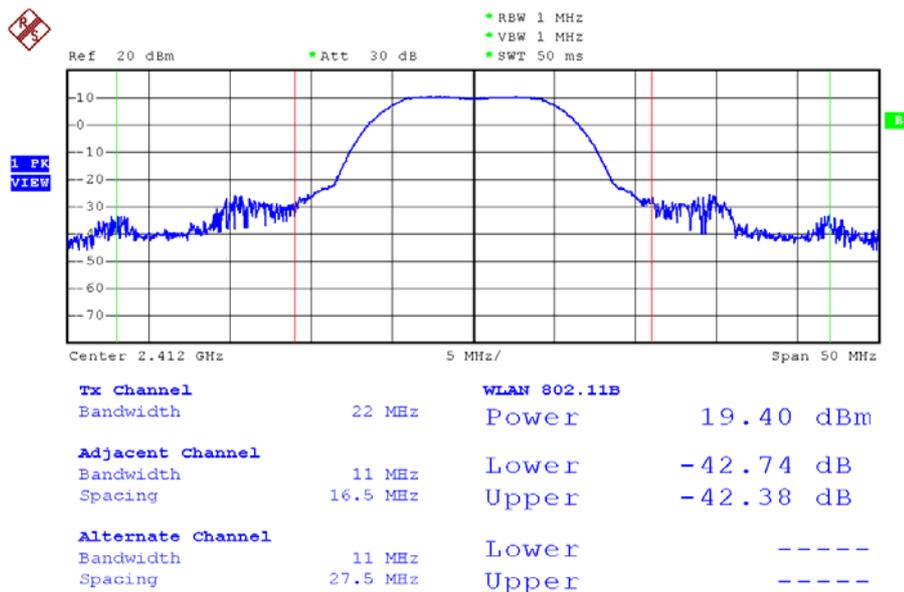




Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 11

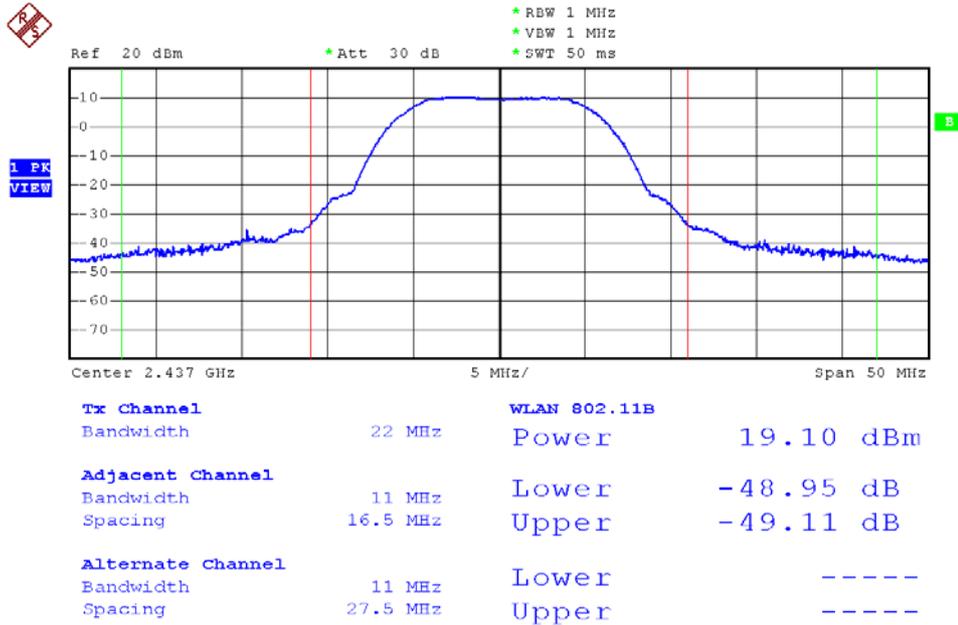


Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 01

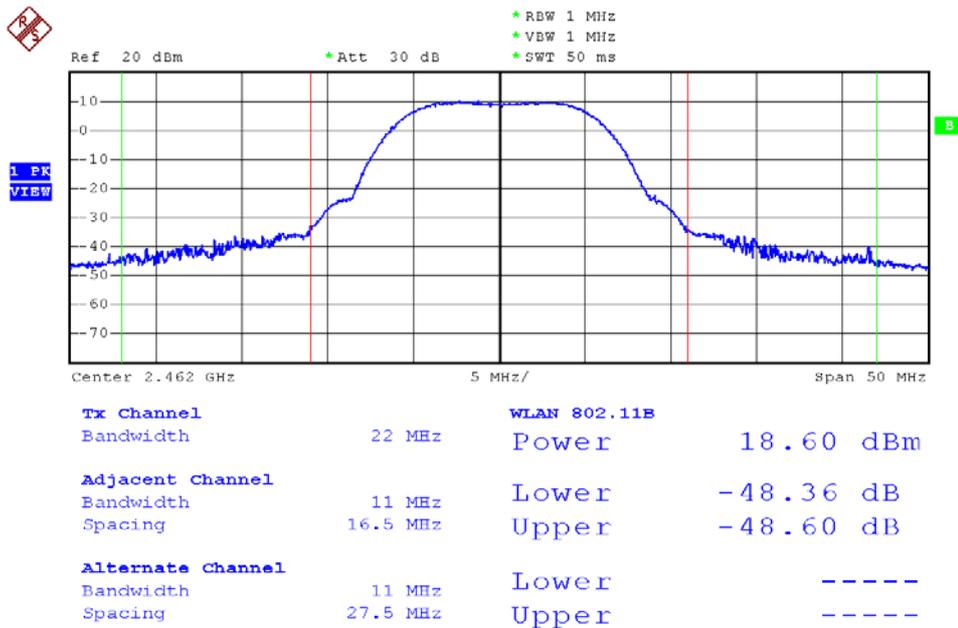




Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 06

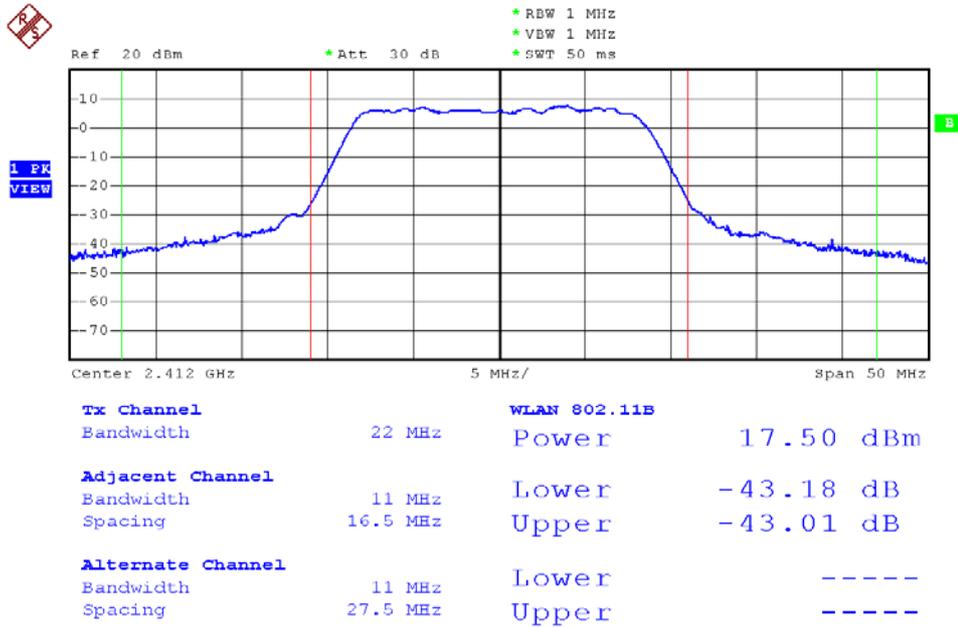


Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 11

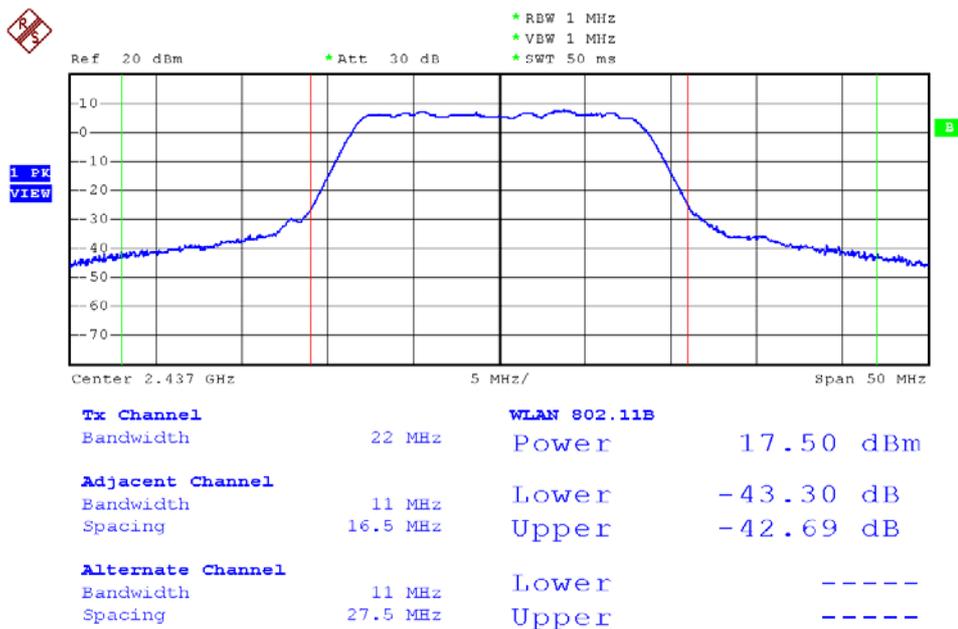




Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 01

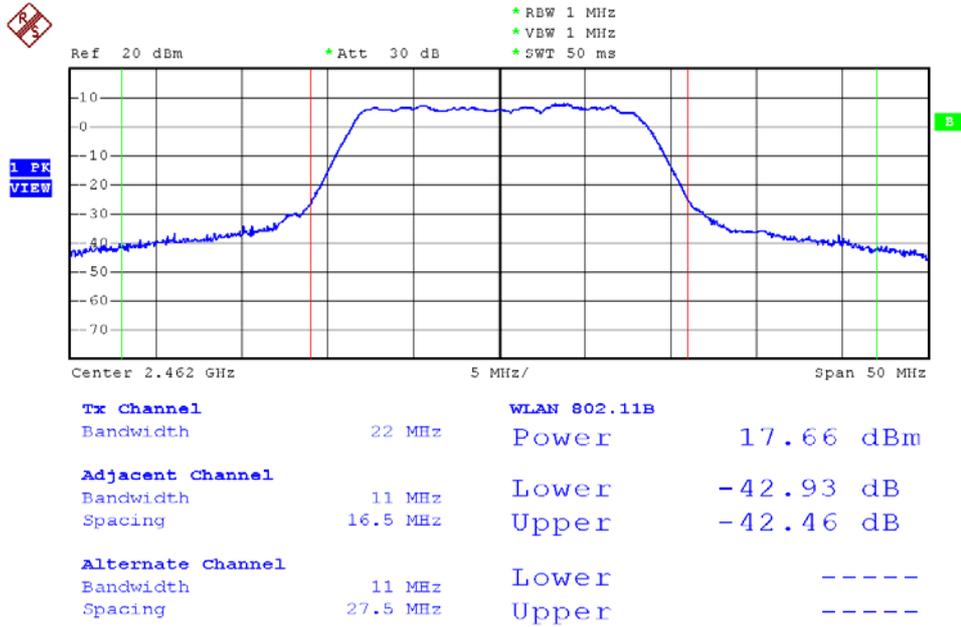


Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 06

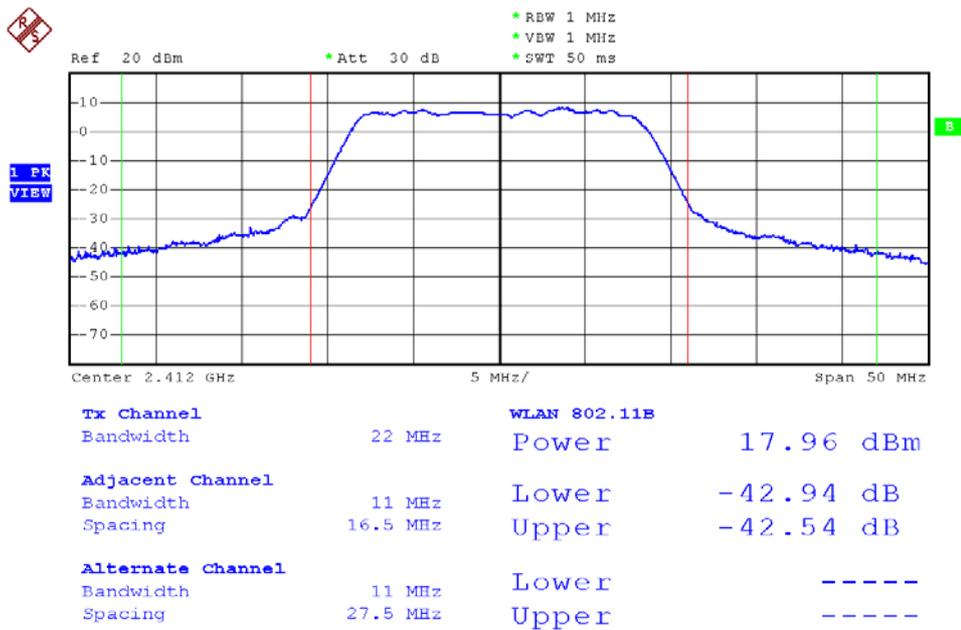




Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 11

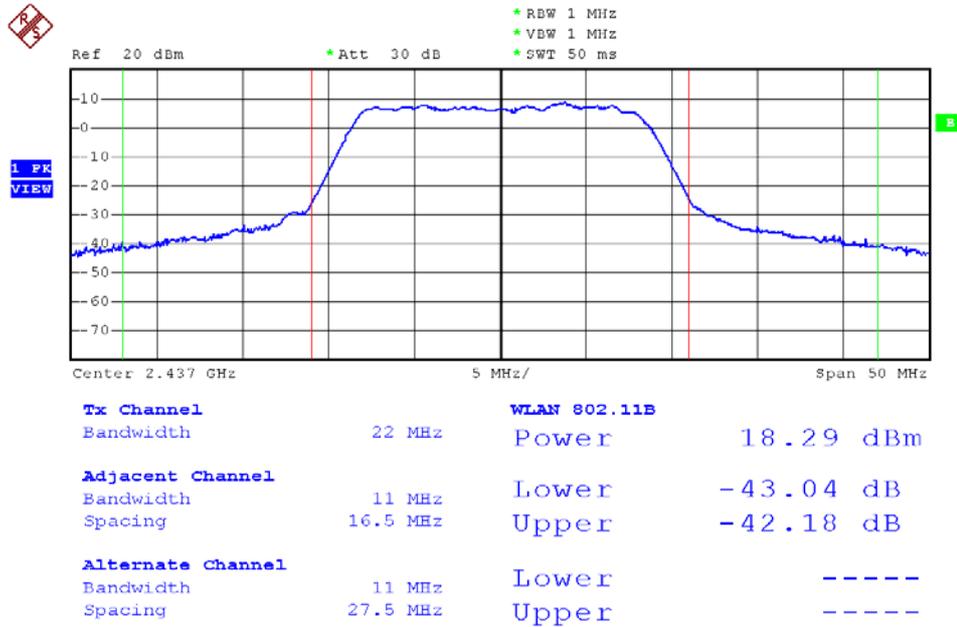


Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 01

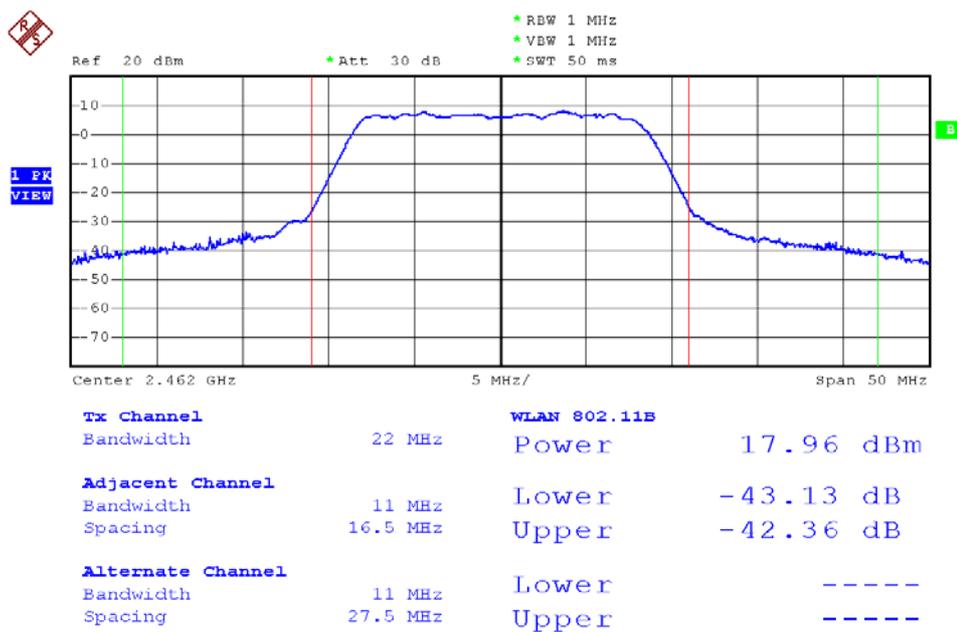




Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 06

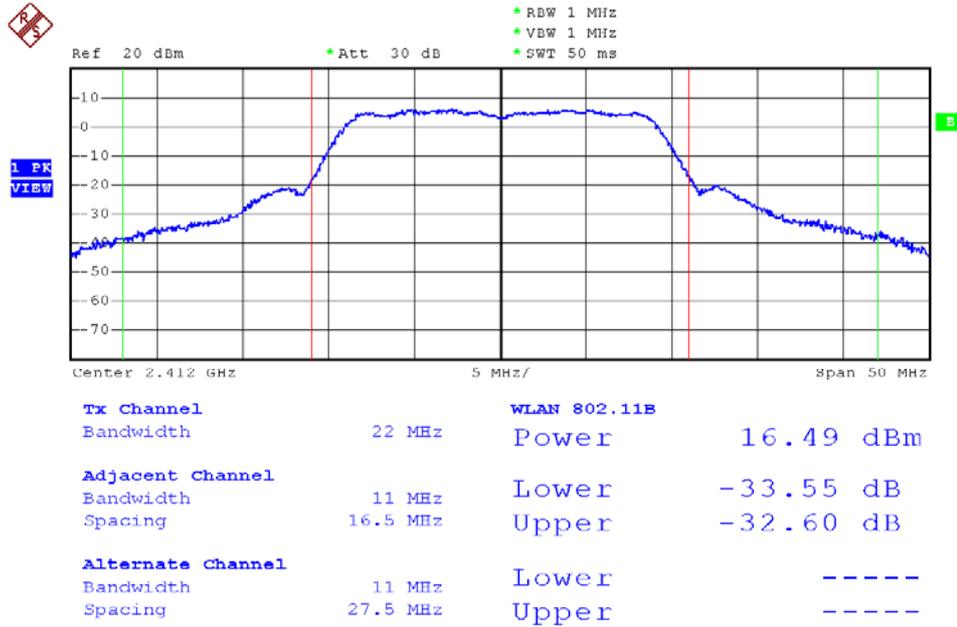


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Channel: 11

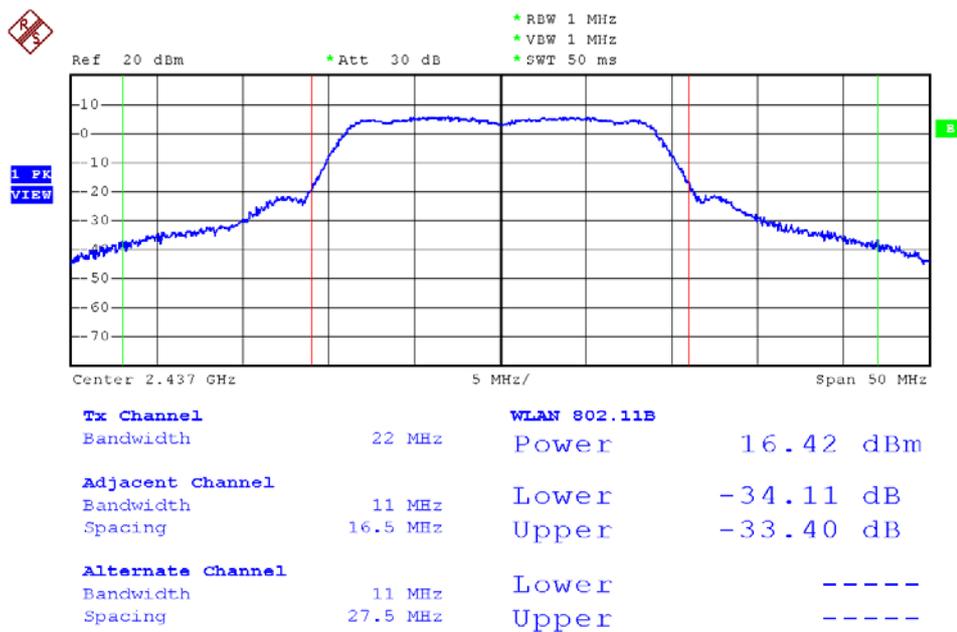




Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 01

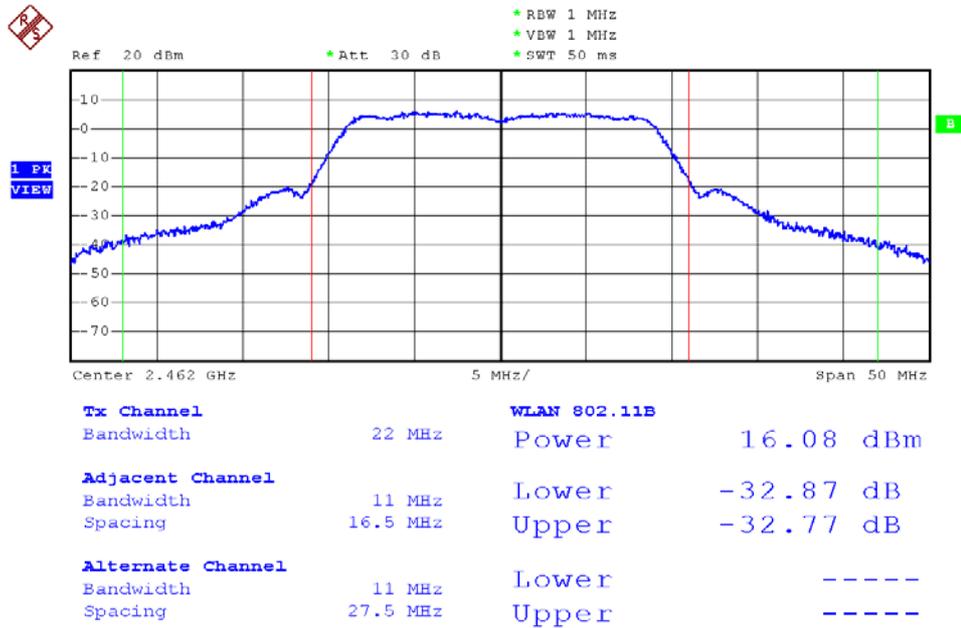


Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 06

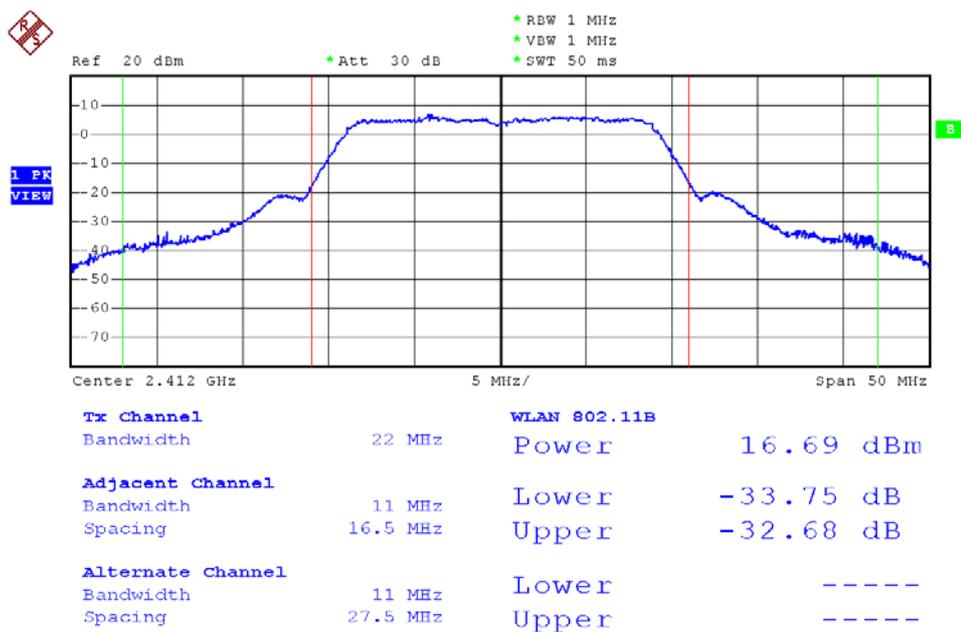




Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 11

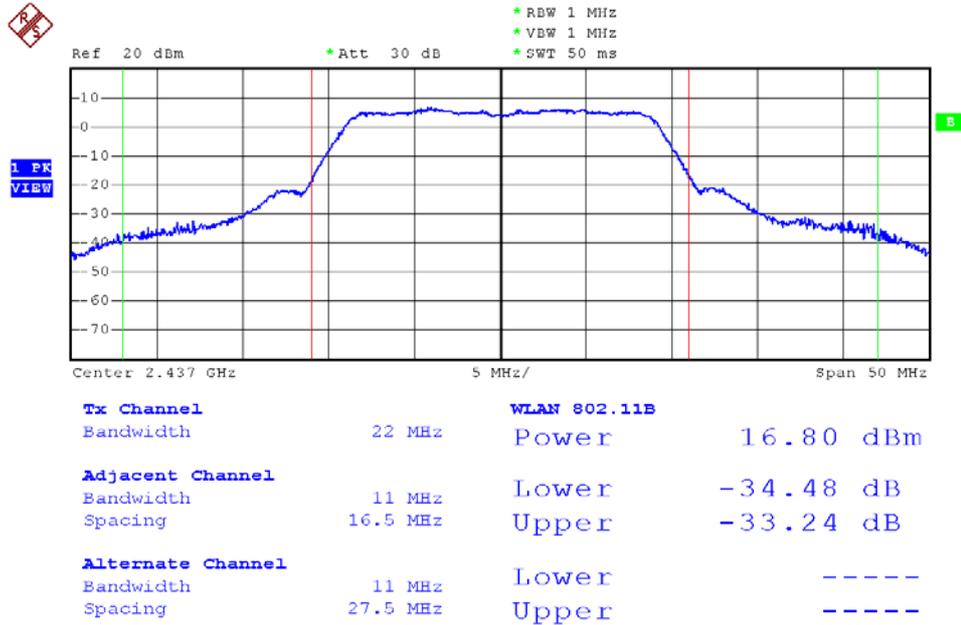


Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 01

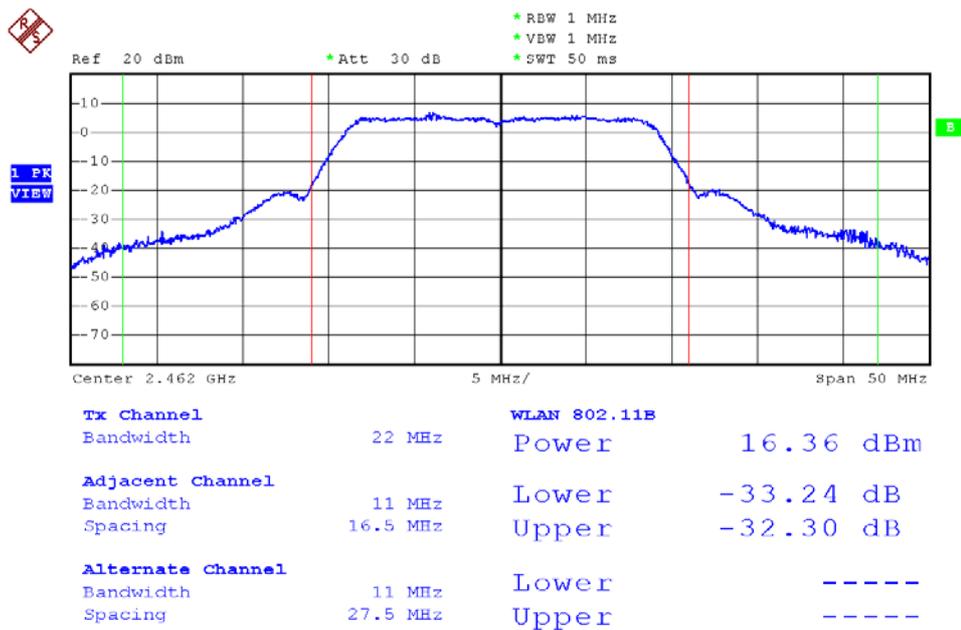




Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 06

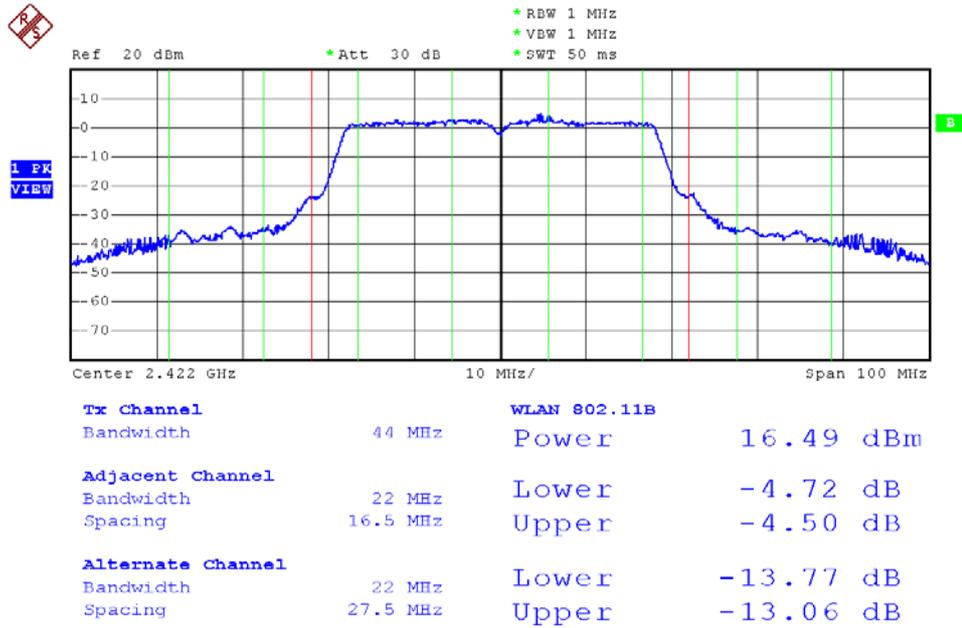


Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 11

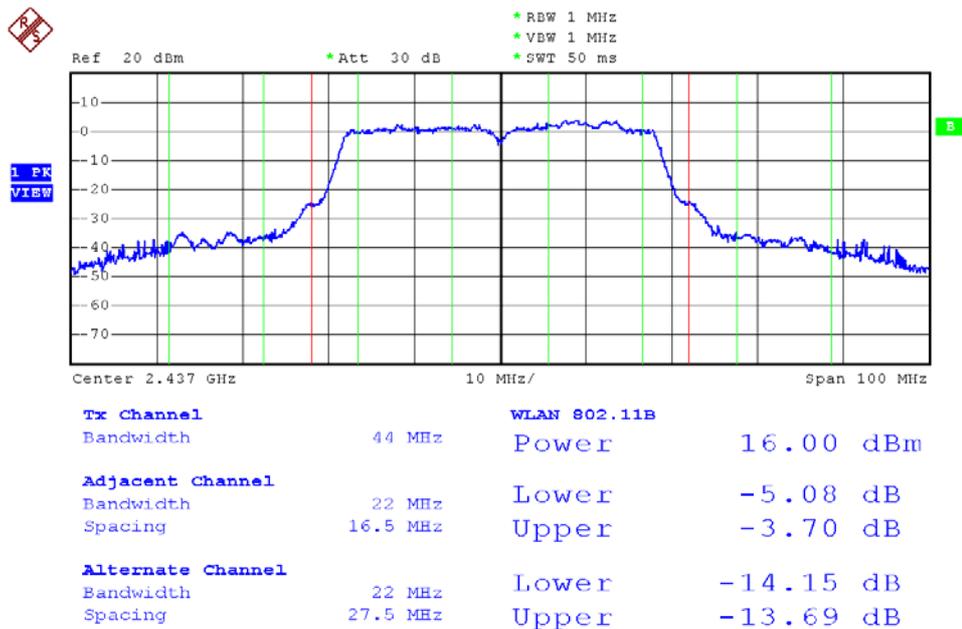




Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
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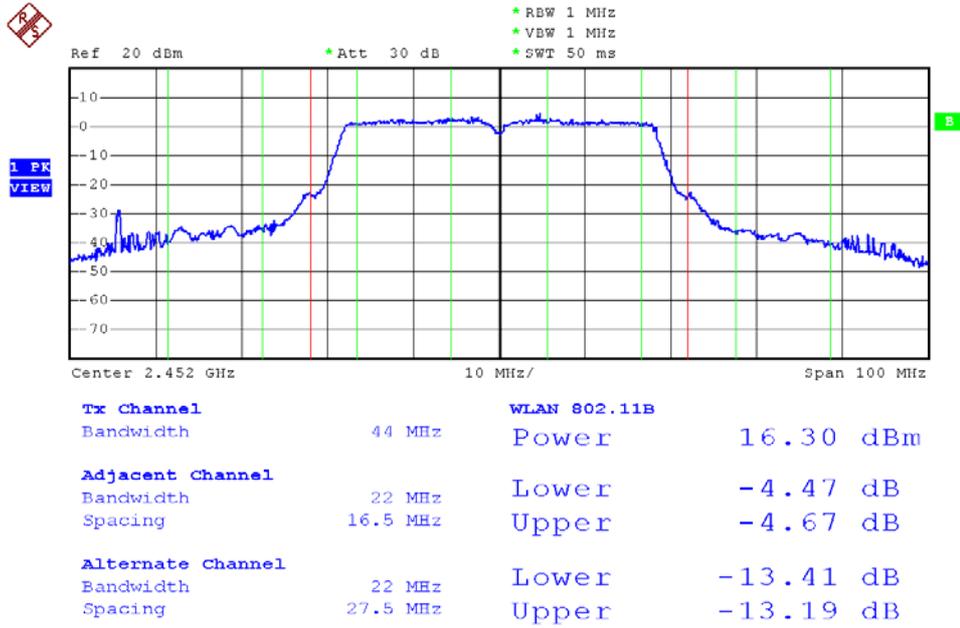


Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 06

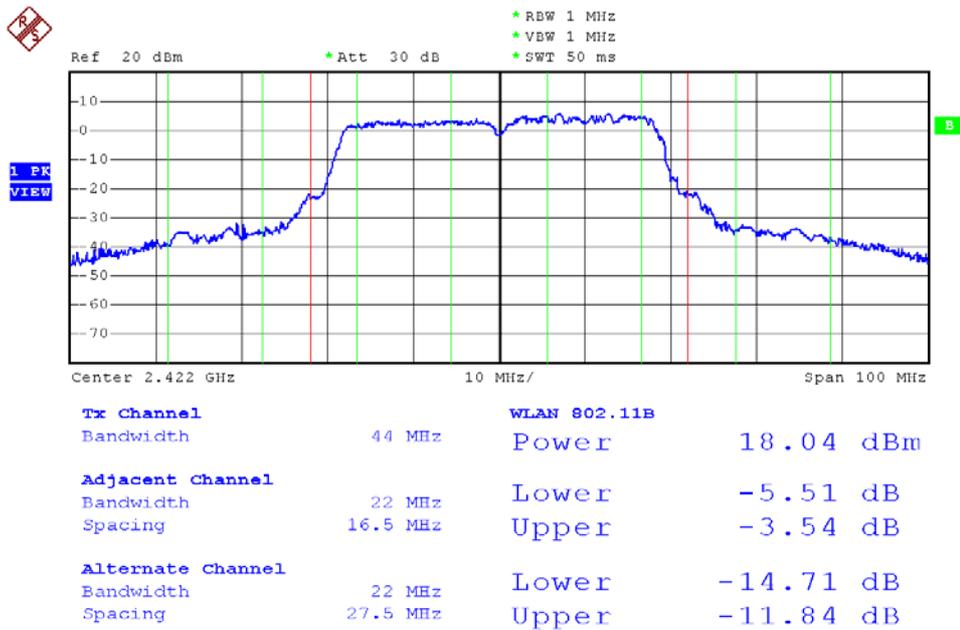




Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 09

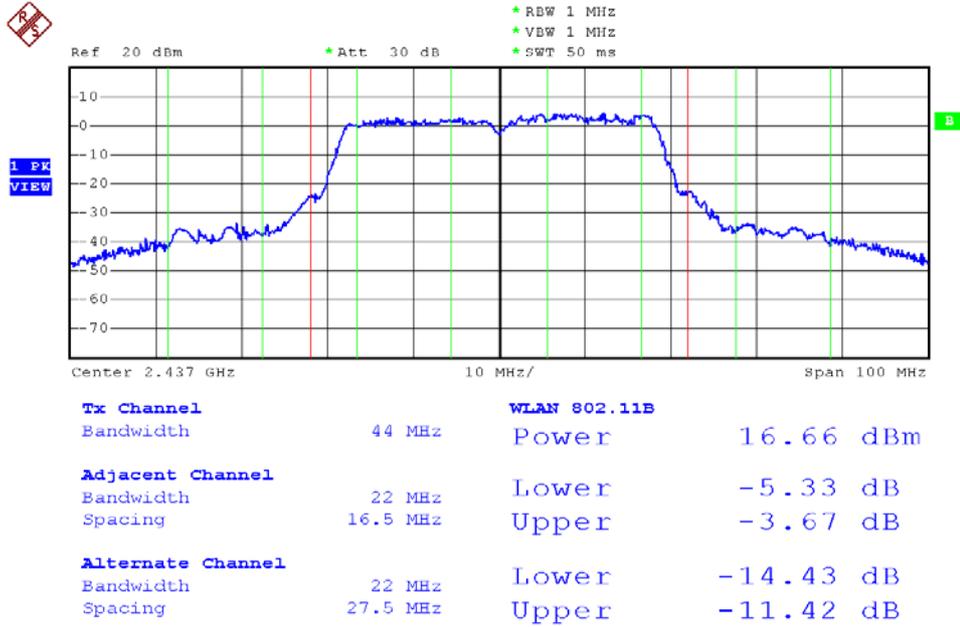


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
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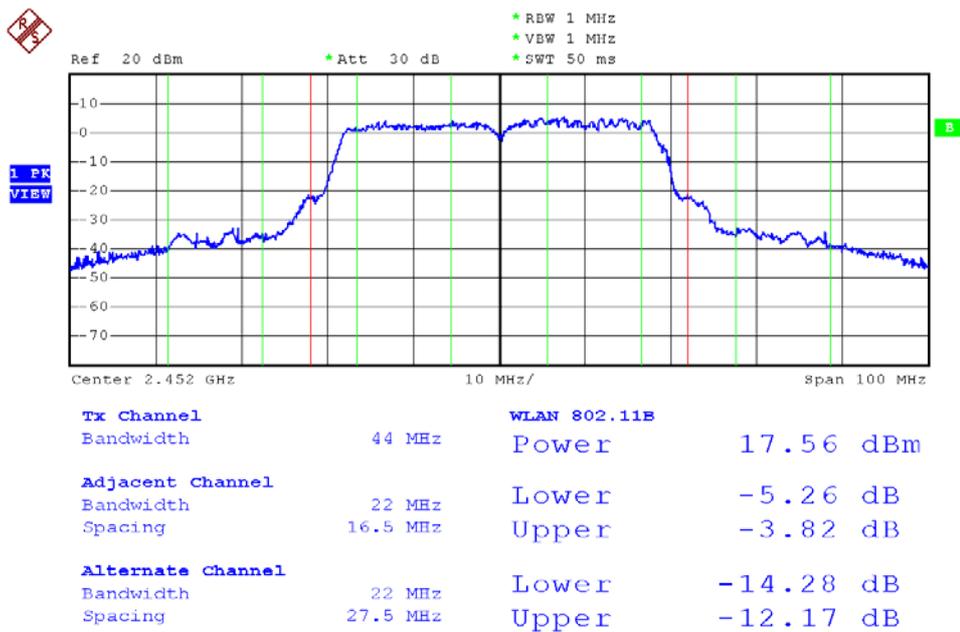




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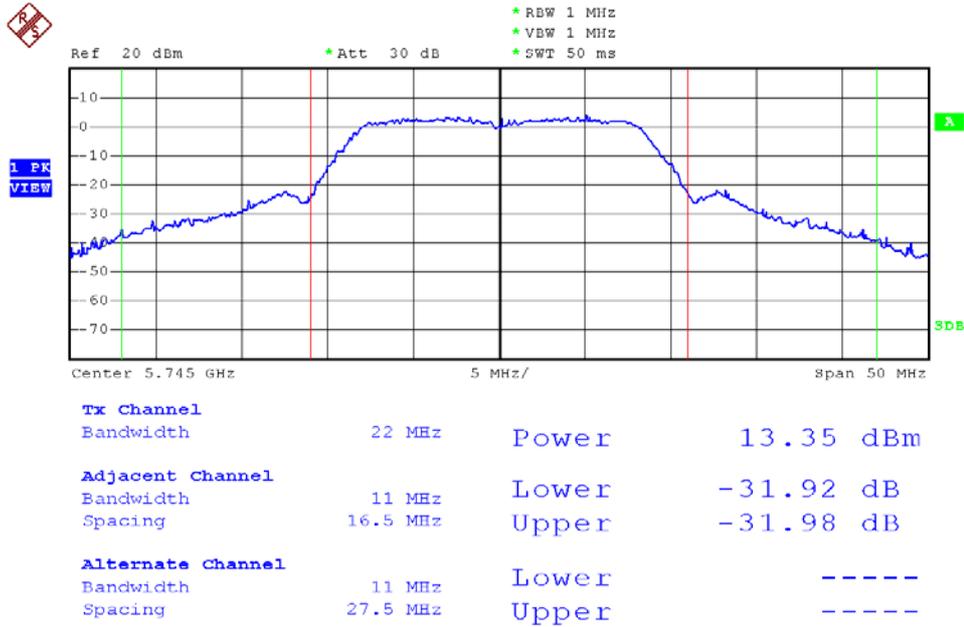


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 09

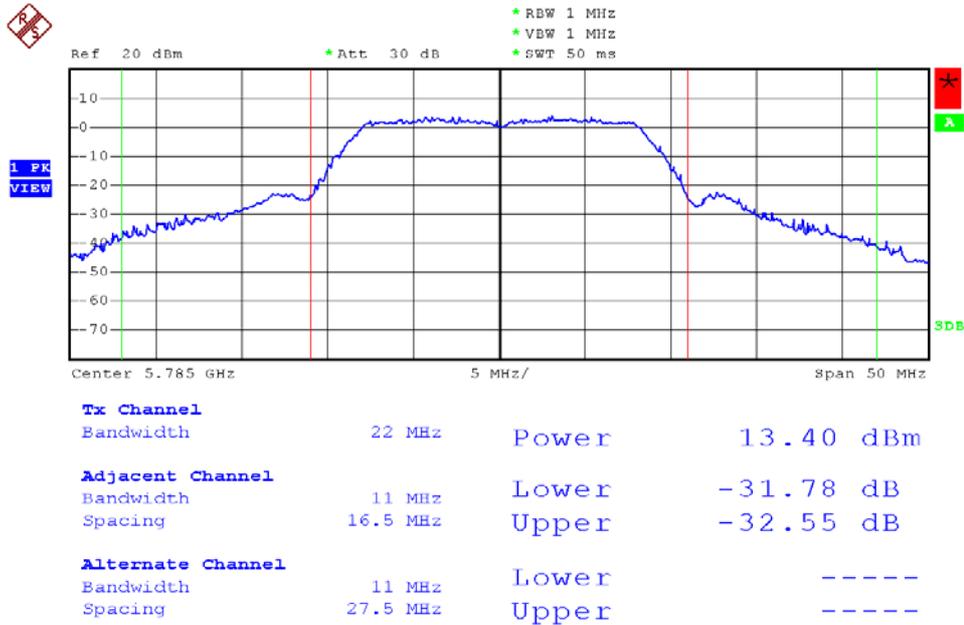




Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 149



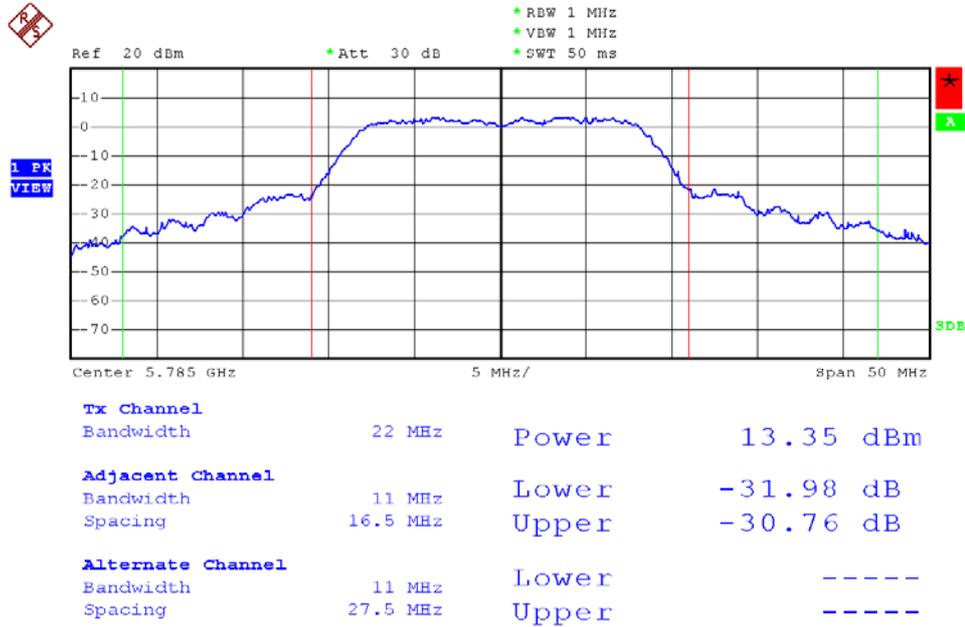
Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 157



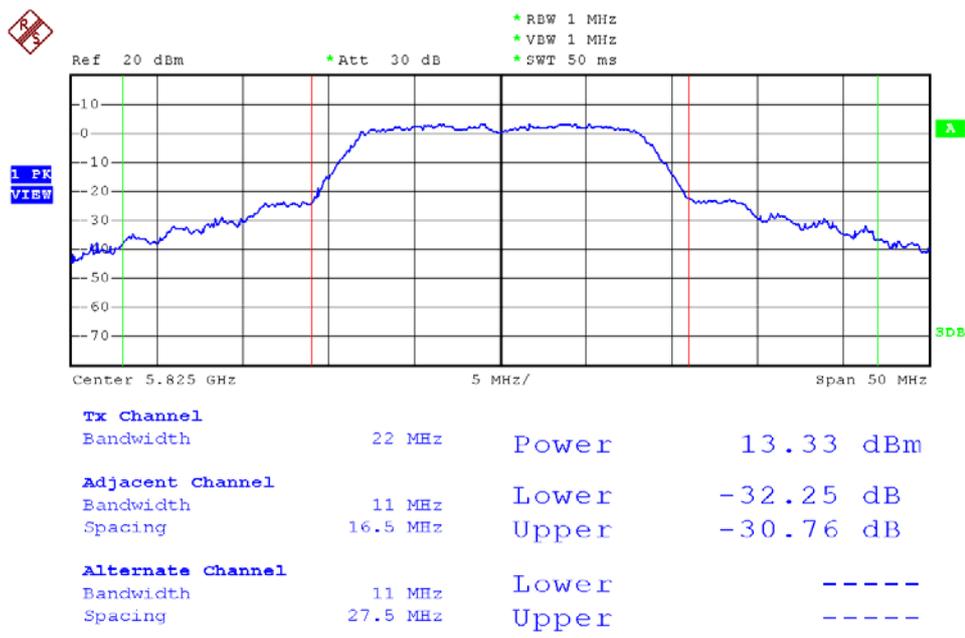




Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 157

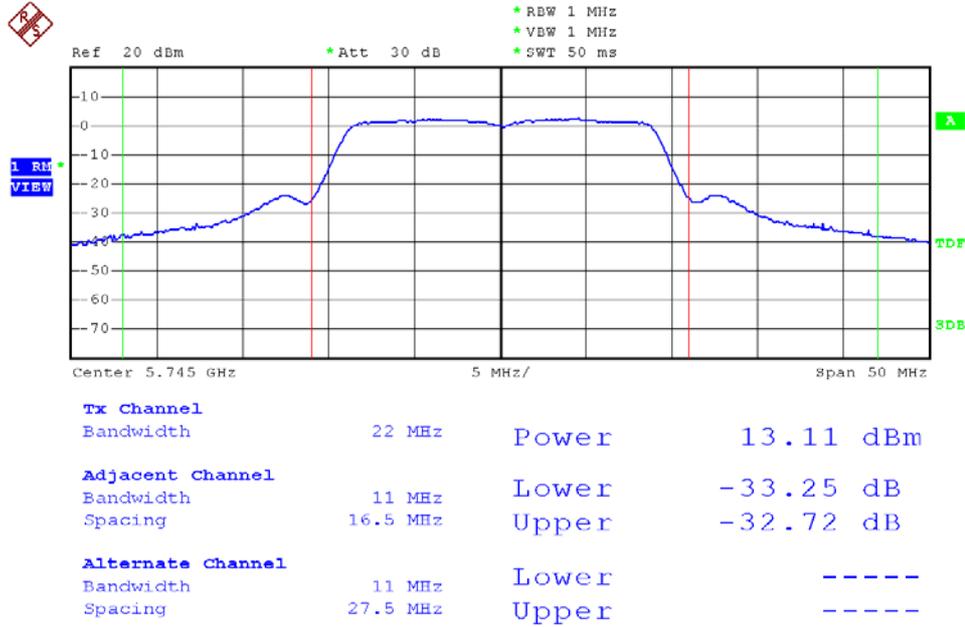


Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 165

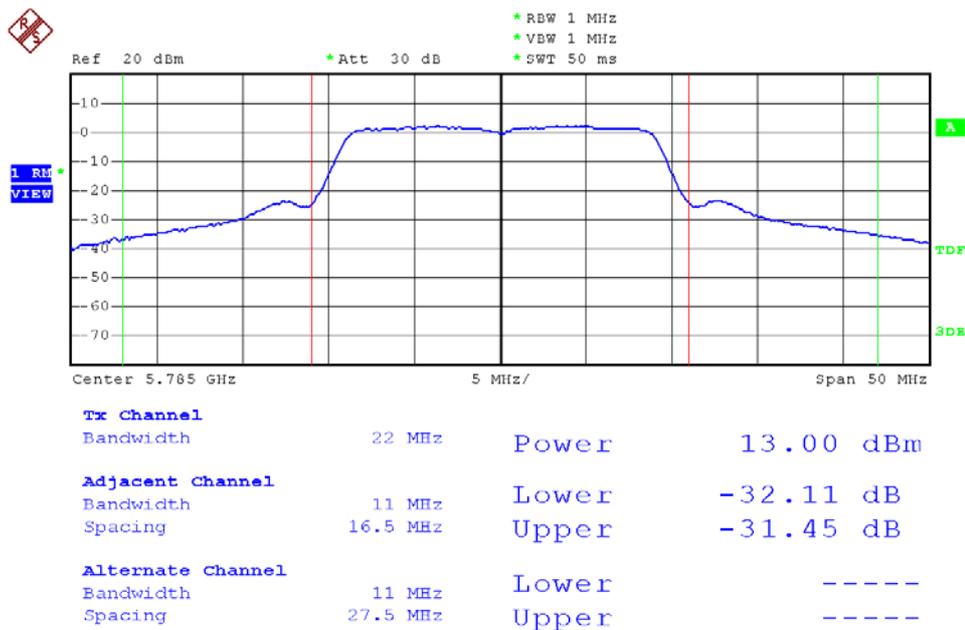




Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 149

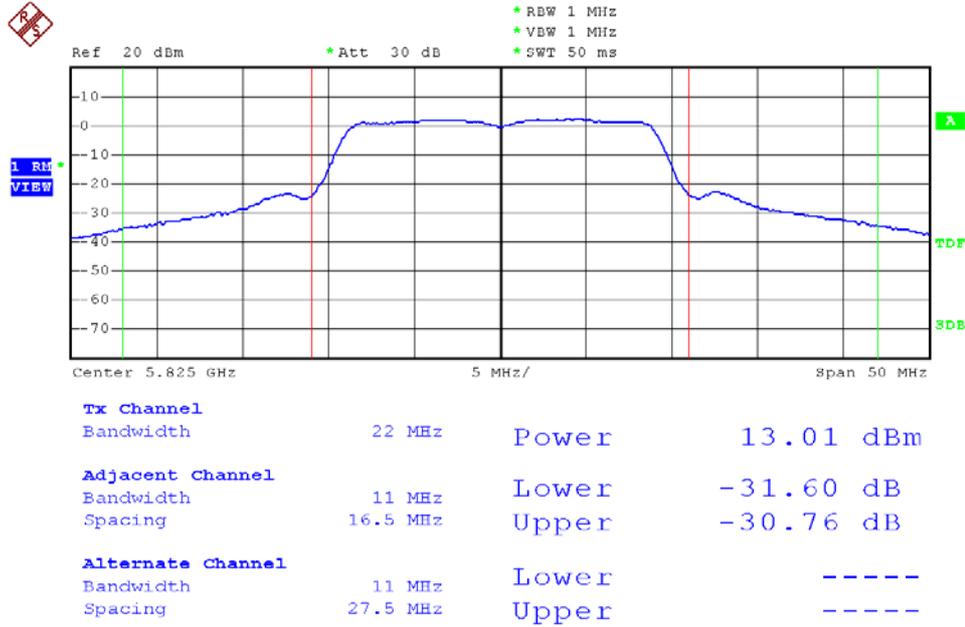


Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 157

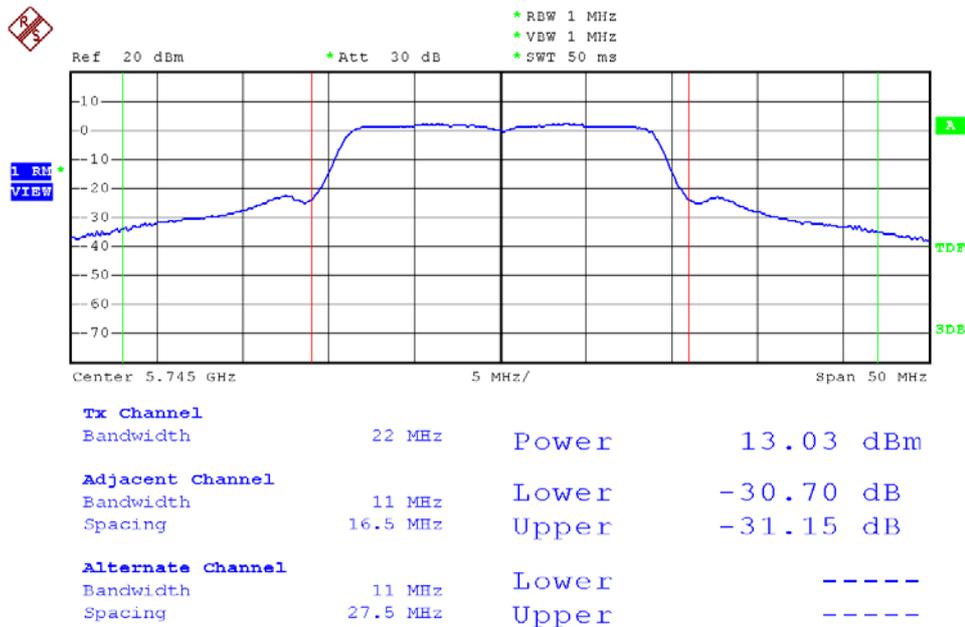




Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 165

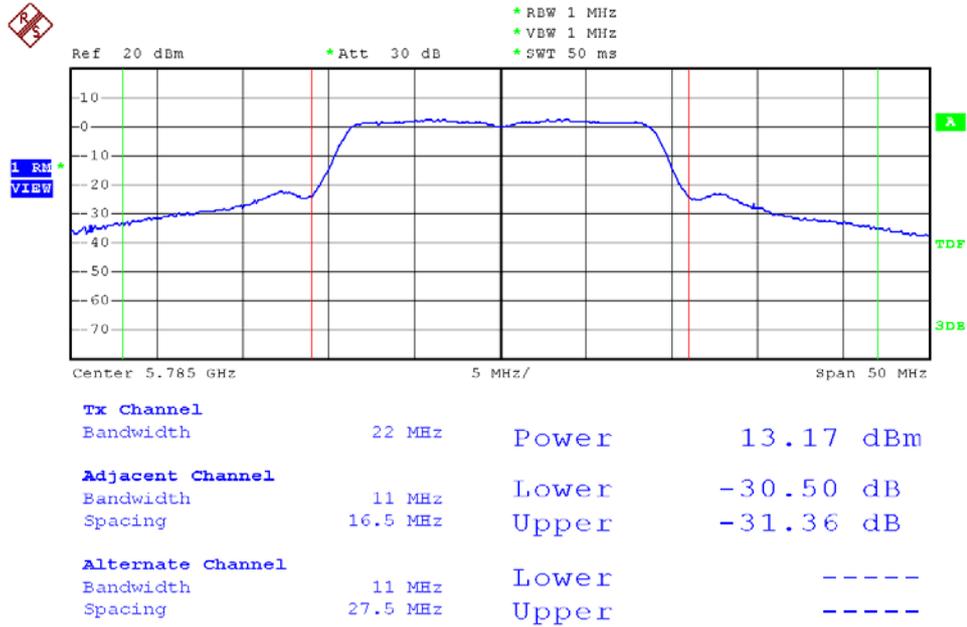


Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 149

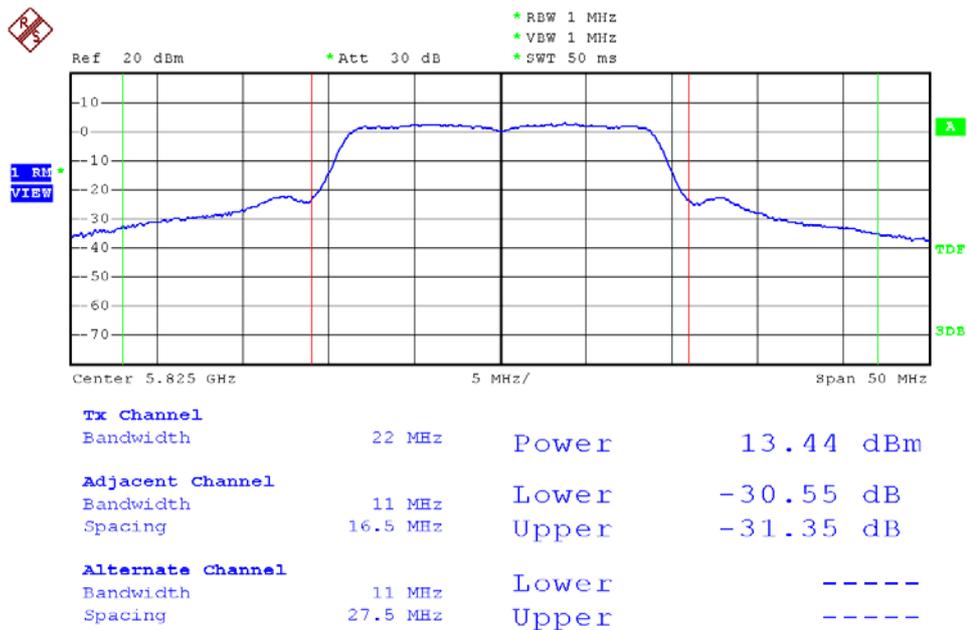




Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
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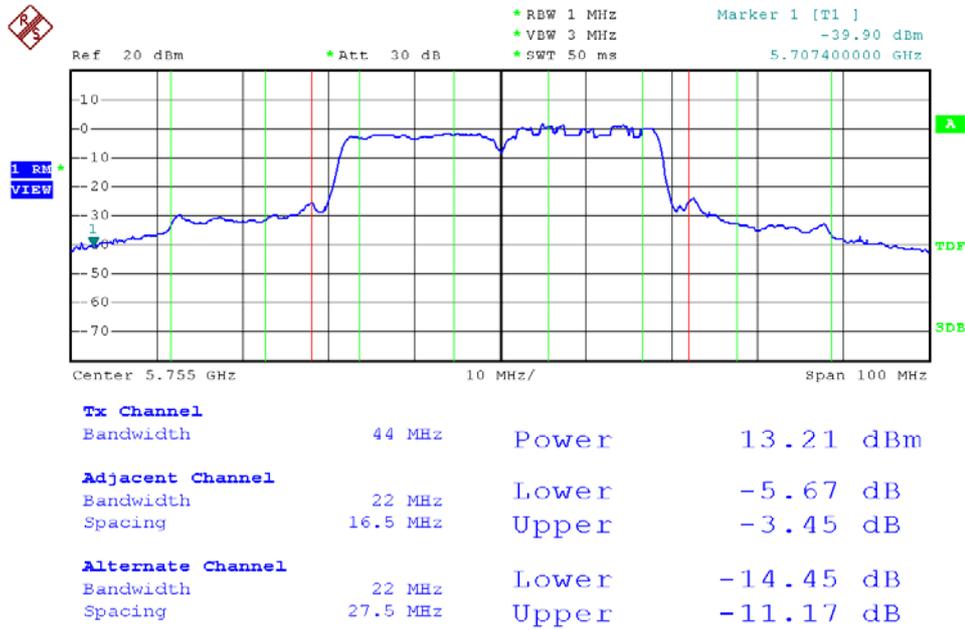
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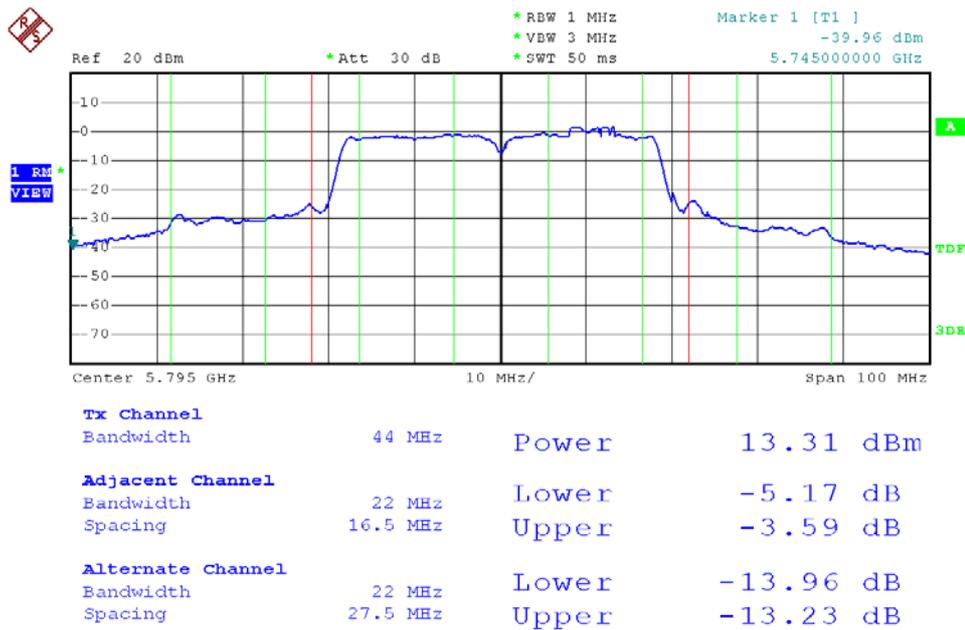




Modulation Standard: 802.11an HT40 (270Mbps), Ant5  
Channel: 151



Modulation Standard: 802.11an HT40 (270Mbps), Ant5  
Channel: 159





## 8. Power Spectral Density

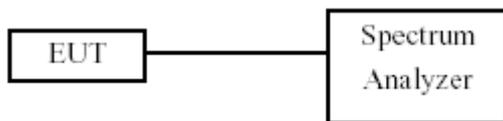
### 8.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

### 8.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
- c. The power spectral density was measured and recorded.
- d. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

### 8.3 Test Setup Layout



### 8.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21



### 8.5 Test Result and Data

Test Date: Dec. 14, 2008

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			Ant1	Ant2	
802.11b (11Mbps)	01	2412	-8.47	-10.13	
	06	2437	-9.12	-10.24	
	11	2462	-9.31	-10.13	
802.11g (54Mbps)	01	2412	-14.78	-16.62	
	06	2437	-16.81	-15.54	
	11	2462	-14.46	-16.44	
			Ant3	Ant5	Ant3+5
802.11n HT20 (130Mbps)	01	2412	-15.70	-17.88	-13.64
	06	2437	-15.64	-16.73	-13.14
	11	2462	-16.96	-14.90	-12.80
802.11n HT40 (270Mbps)	03	2422	-25.47	-20.89	-19.59
	06	2437	-18.66	-24.92	-17.74
	09	2452	-17.87	-18.32	-15.08

Test Date: Dec. 26, 2008

Temperature: 20

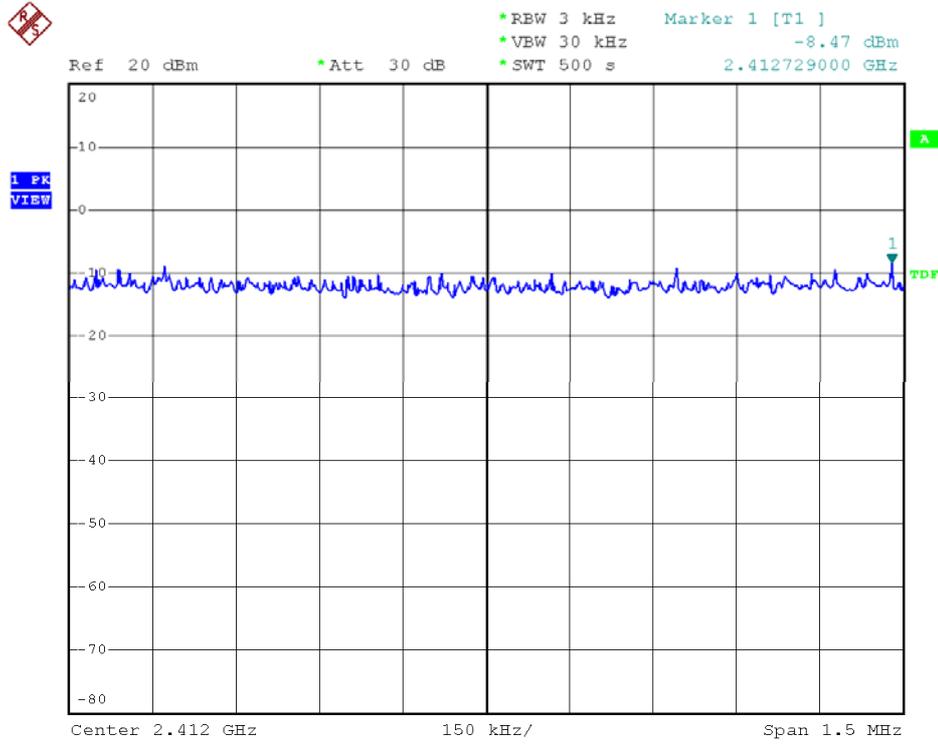
Atmospheric pressure: 1008 hPa

Humidity: 60%

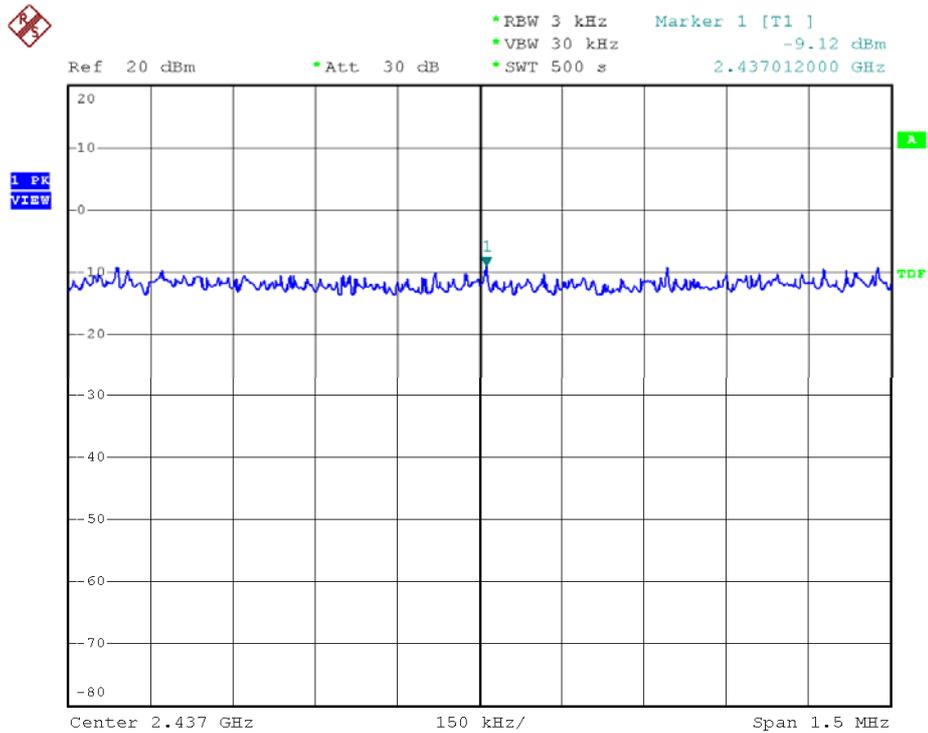
Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			Ant3	Ant5	
802.11a (54Mbps)	149	5745	-14.68	-14.59	
	157	5785	-15.10	-15.43	
	165	5825	-15.98	-15.62	
			Ant3	Ant5	Ant3+5
802.11an HT20 (130Mbps)	149	5745	-13.76	-14.37	-11.04
	157	5785	-14.32	-14.41	-11.35
	165	5825	-15.01	-15.72	-12.34
802.11an HT40 (270Mbps)	151	5755	-22.33	-23.05	-19.66
	159	5795	-22.84	-23.51	-20.15



Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 01

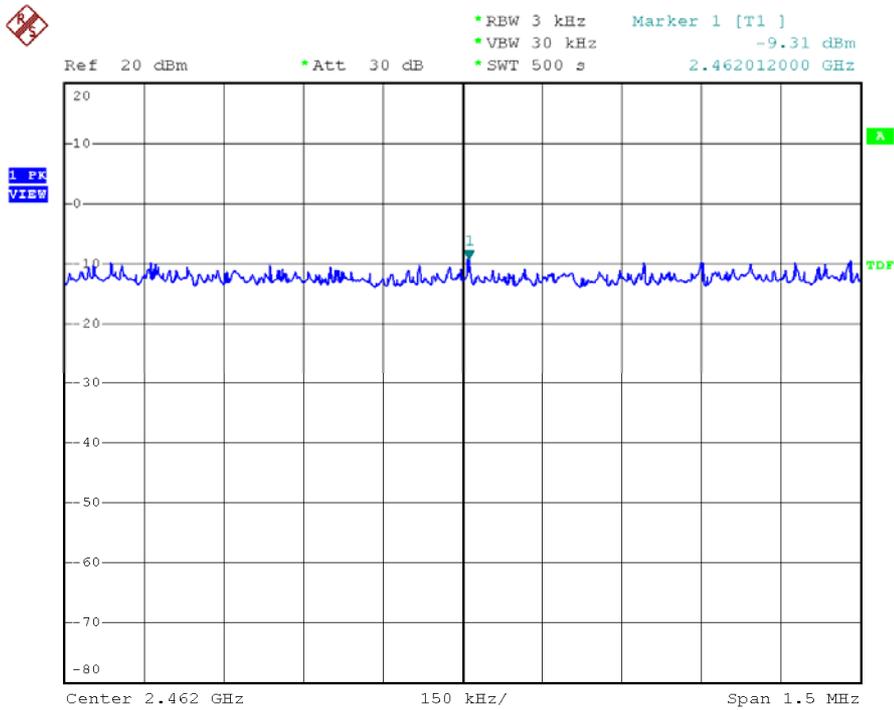


Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 06

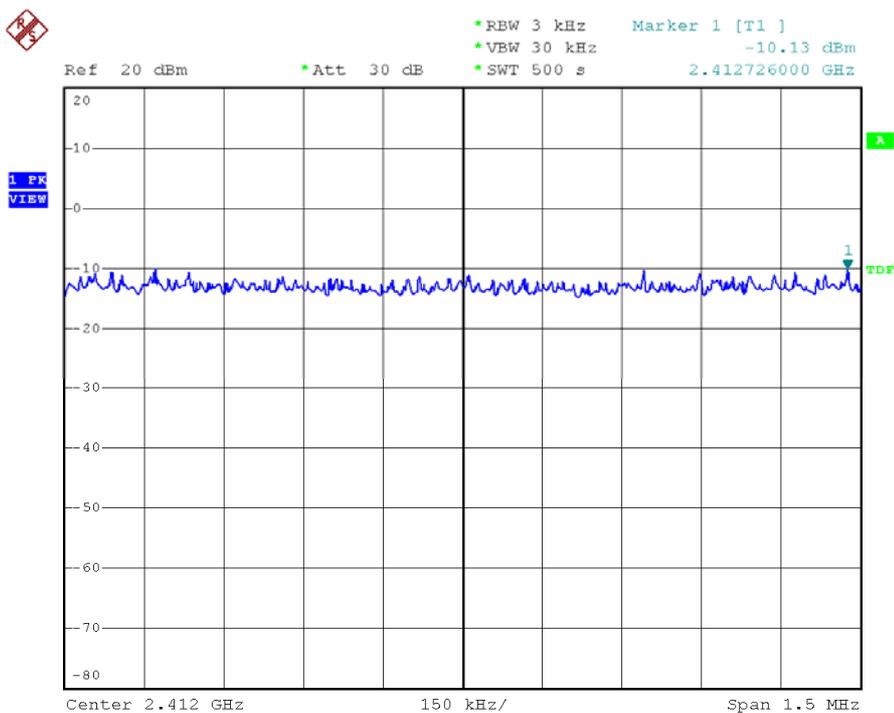




Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 11

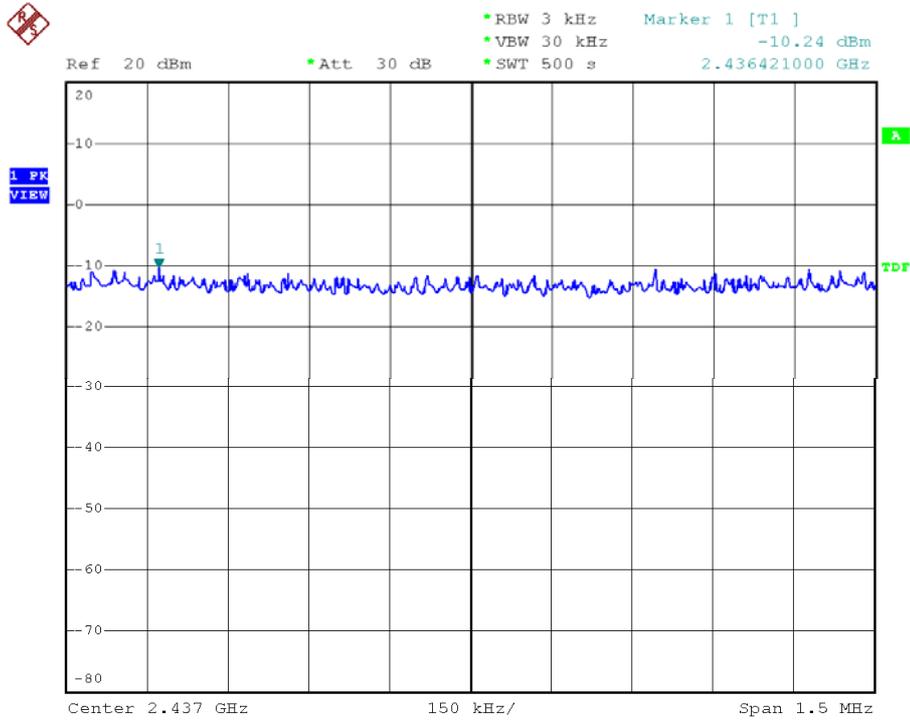


Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 01

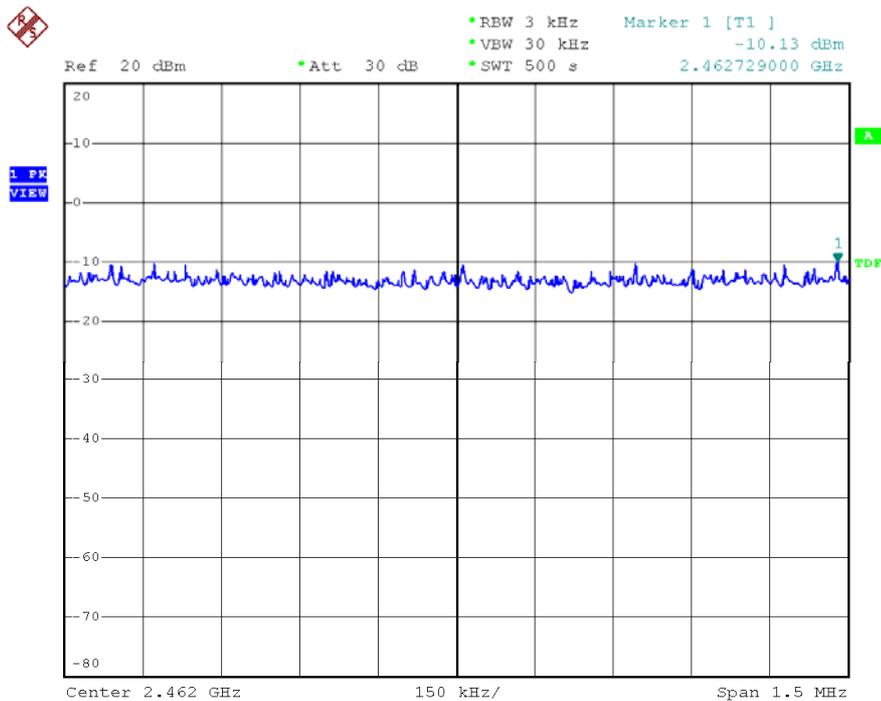




Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 06

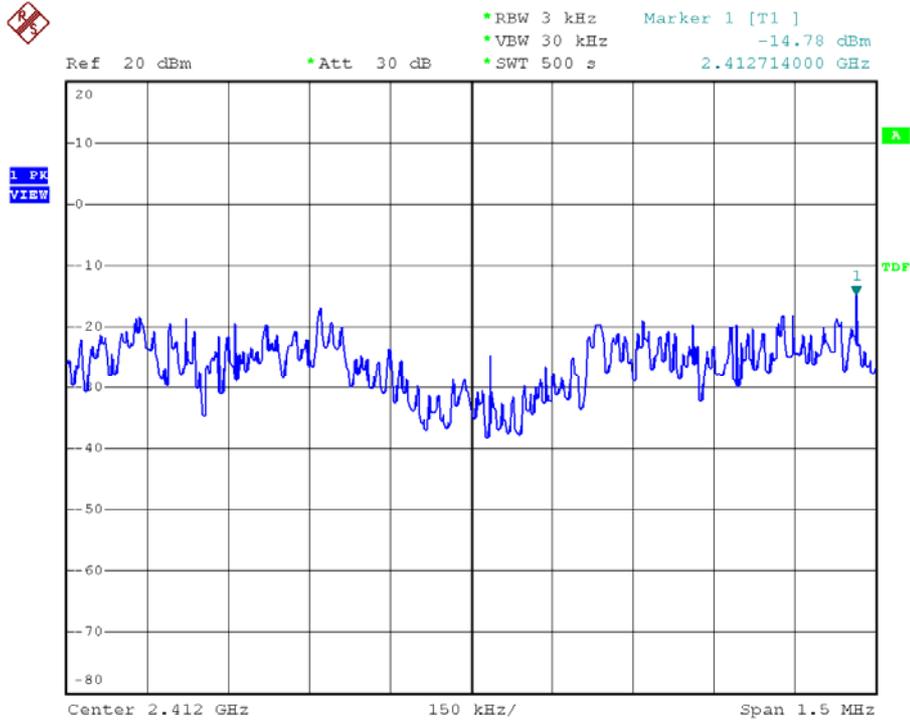


Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 11

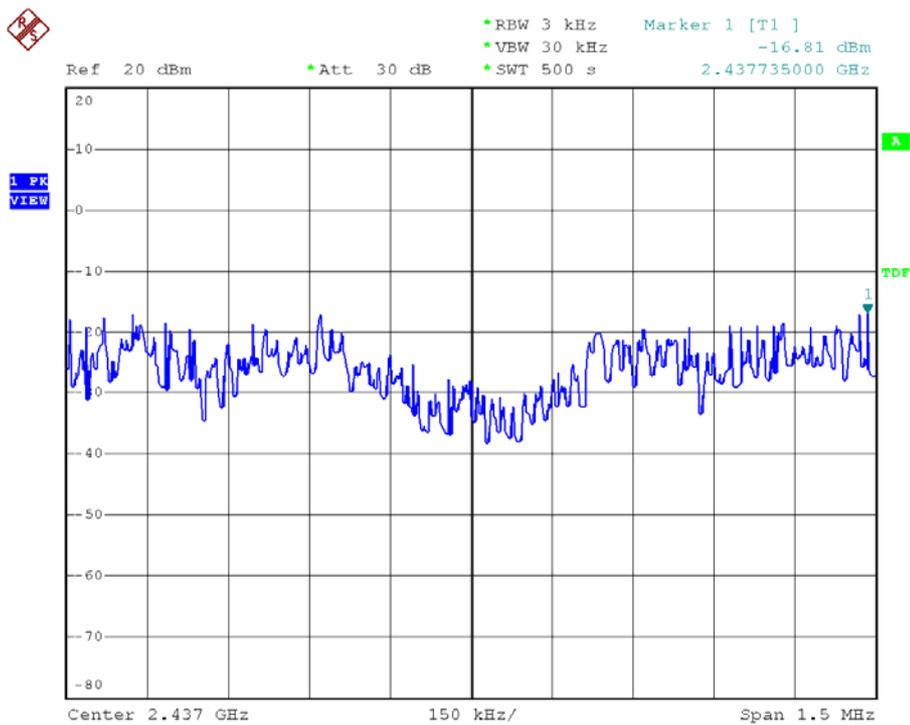




Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 01

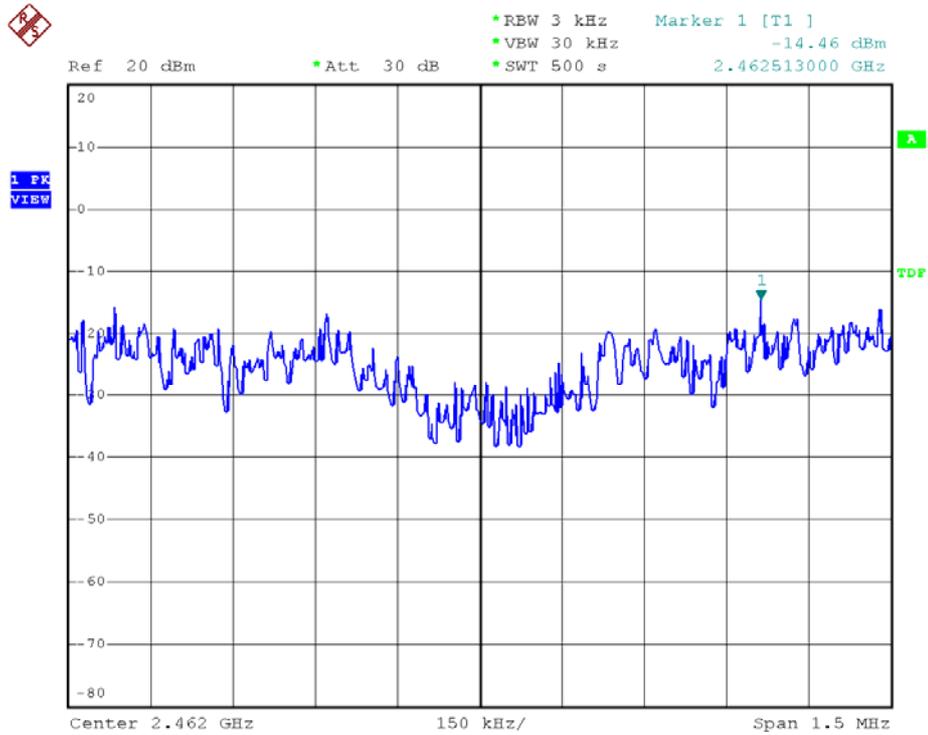


Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 06

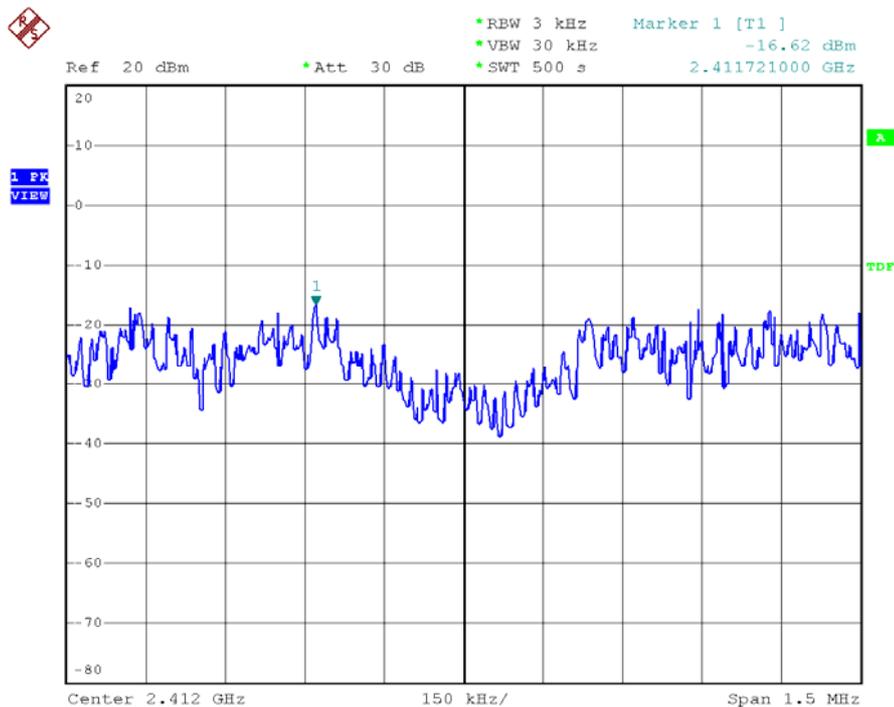




Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 11

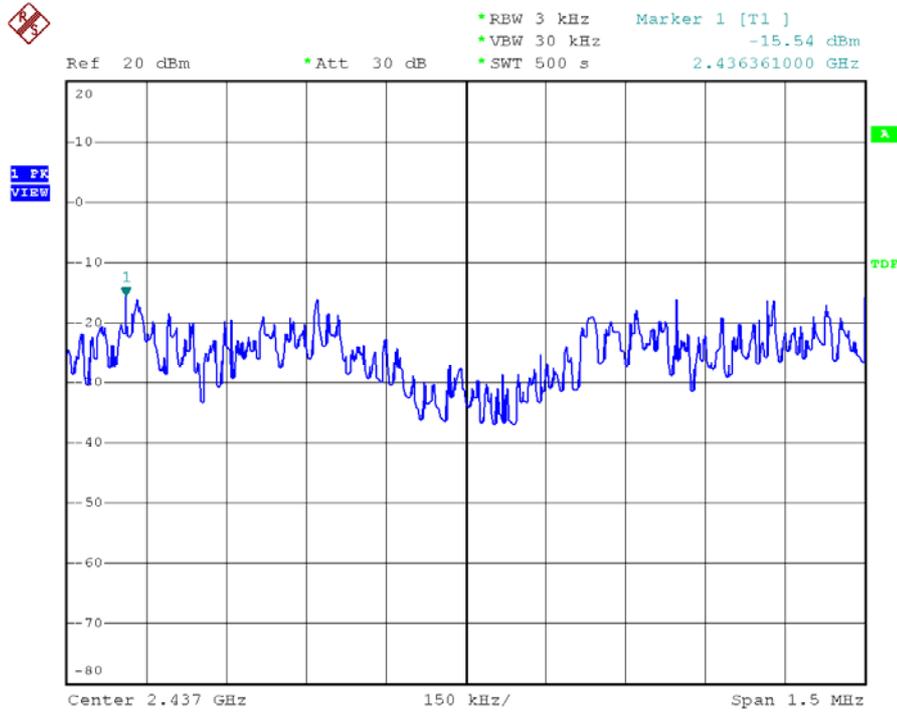


Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 01

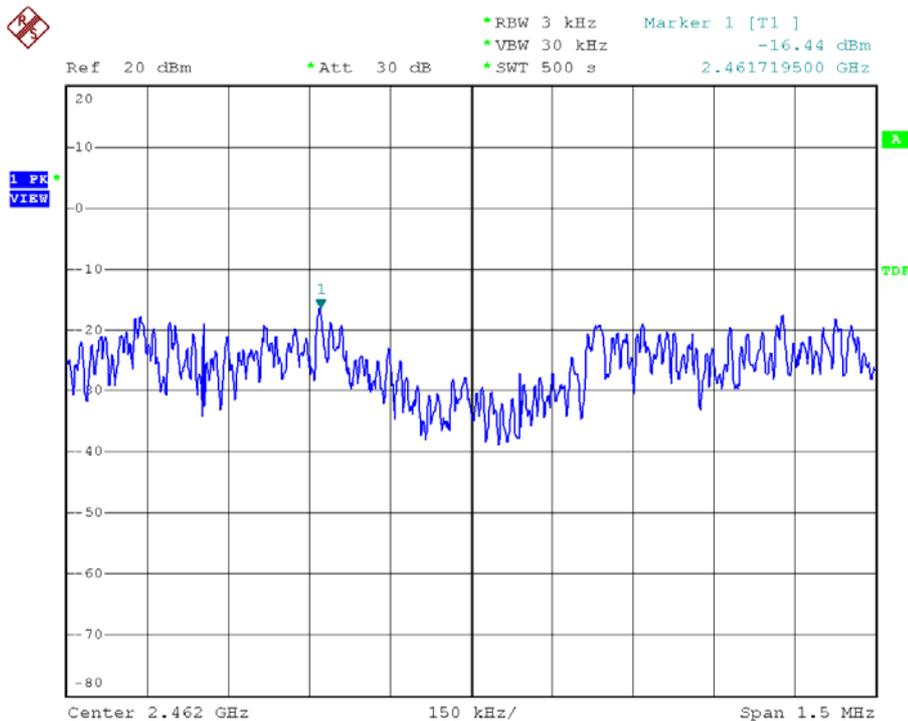




Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 06

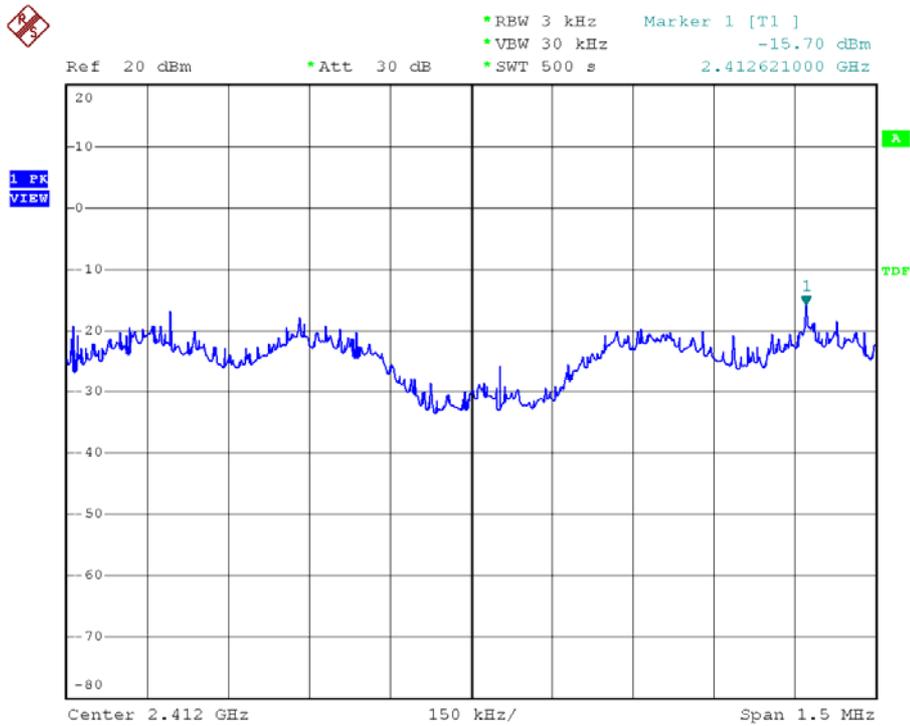


Modulation Standard: 802.11g (54Mbps), Ant2  
Channel: 11

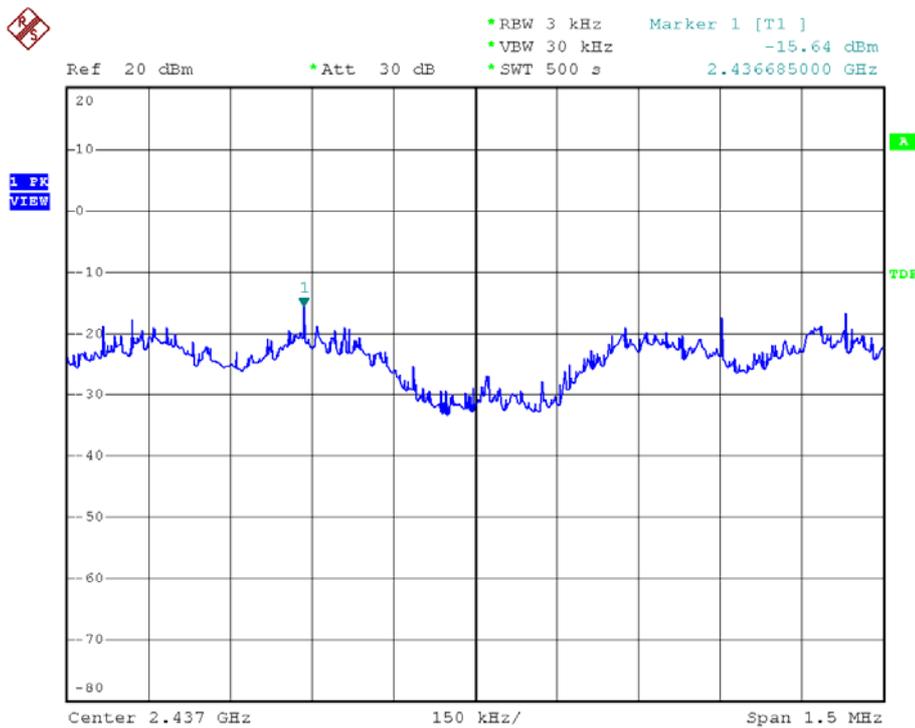




Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 01



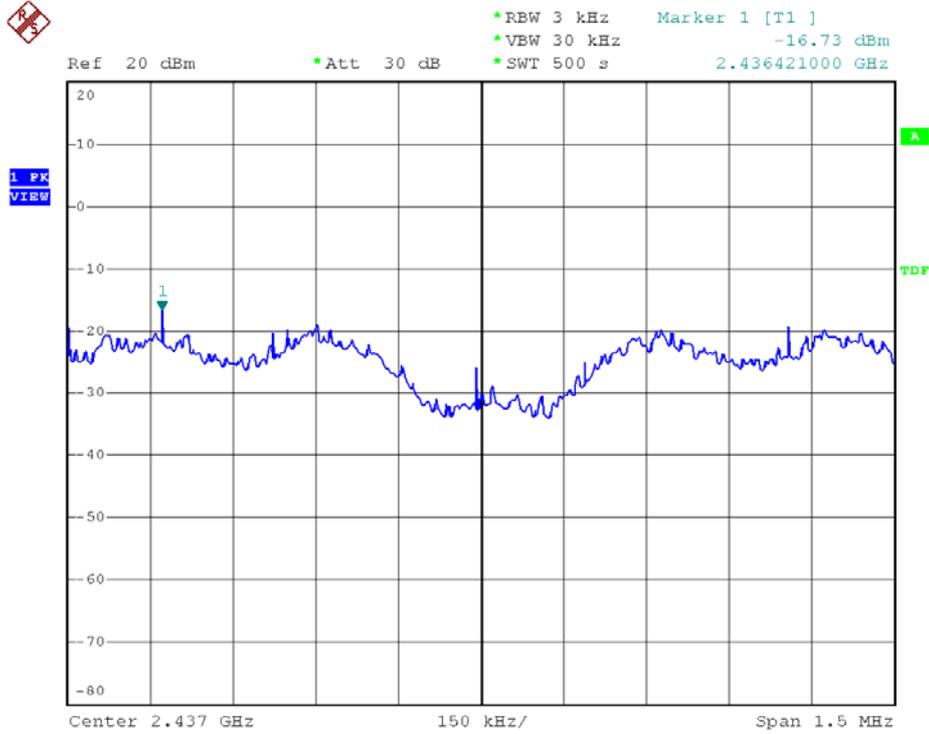
Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 06



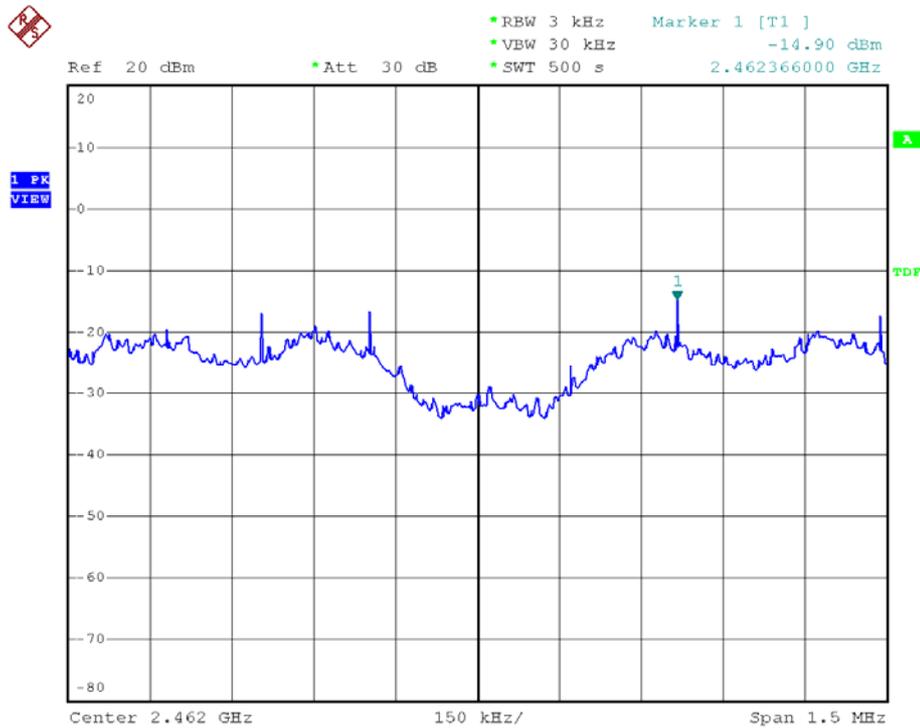




Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 06

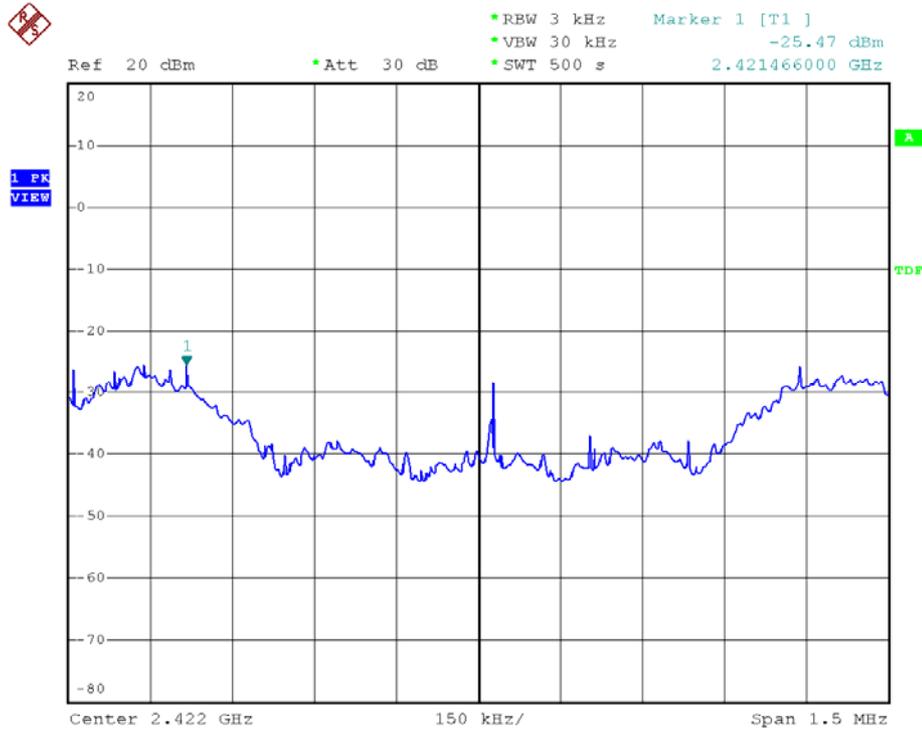


Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 11

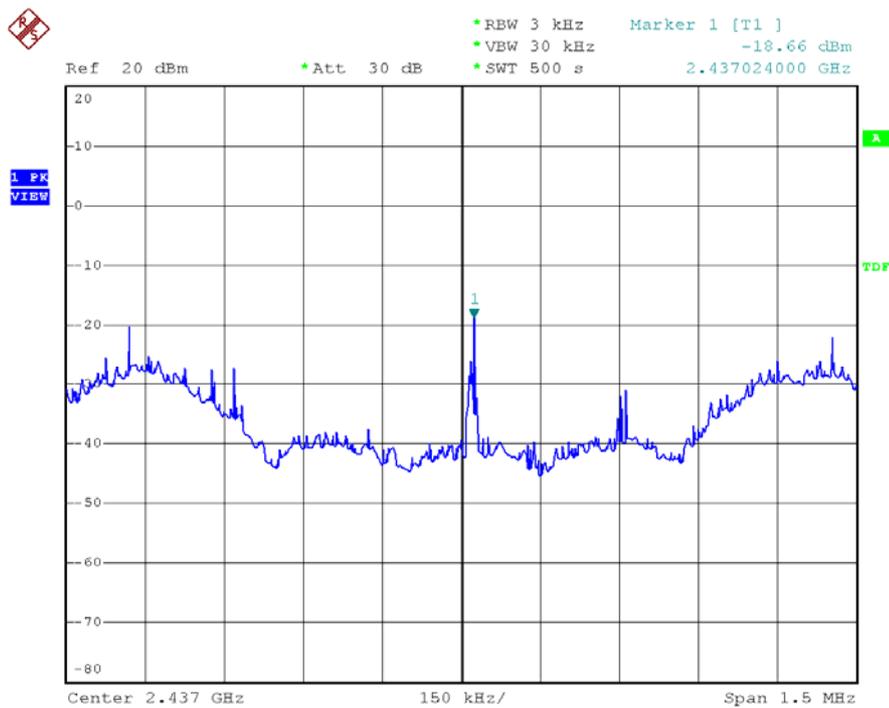




Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 03

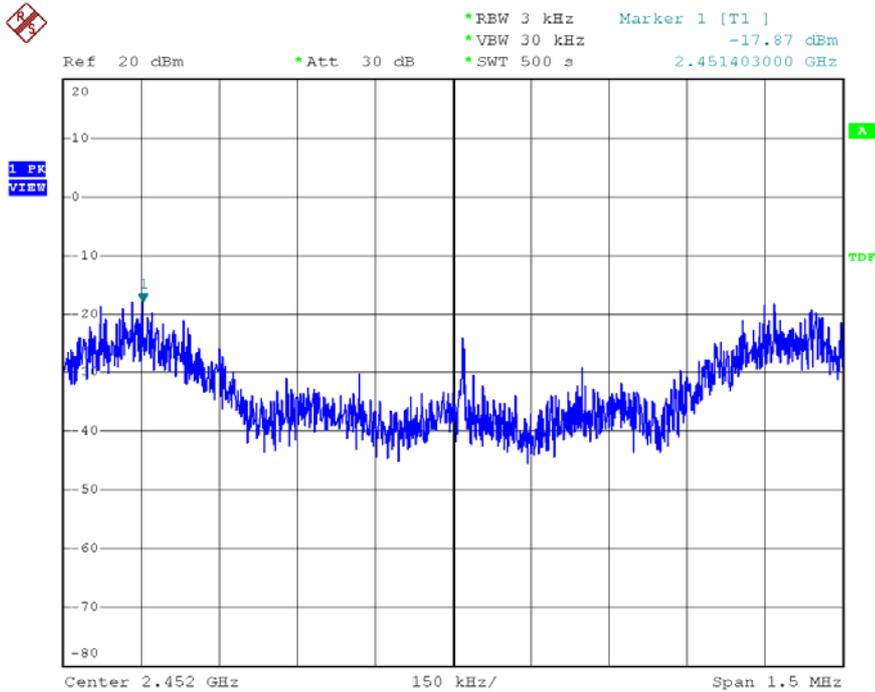


Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 06

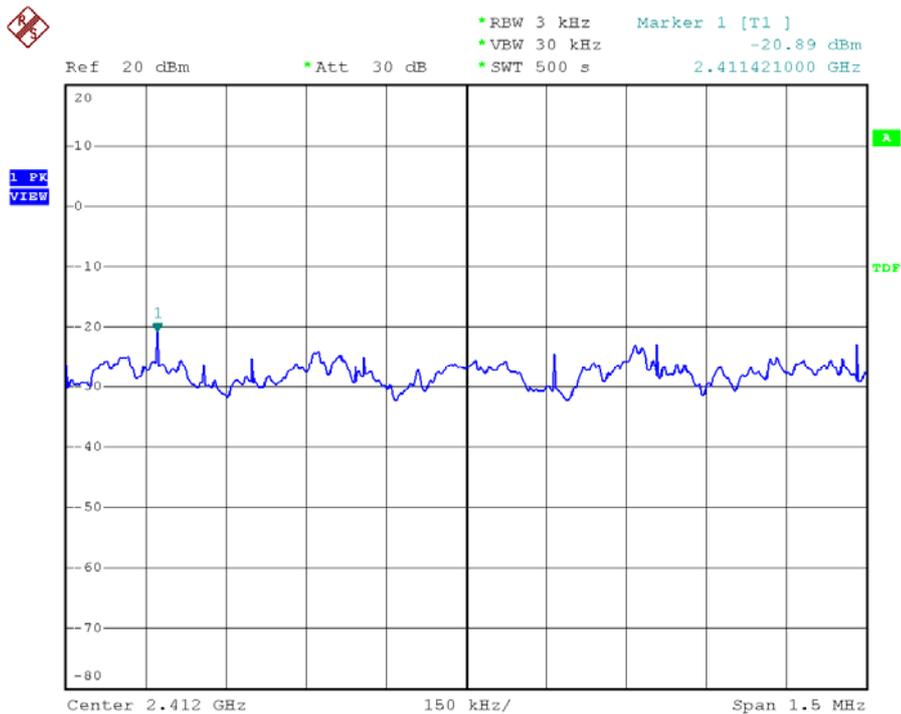




Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 09

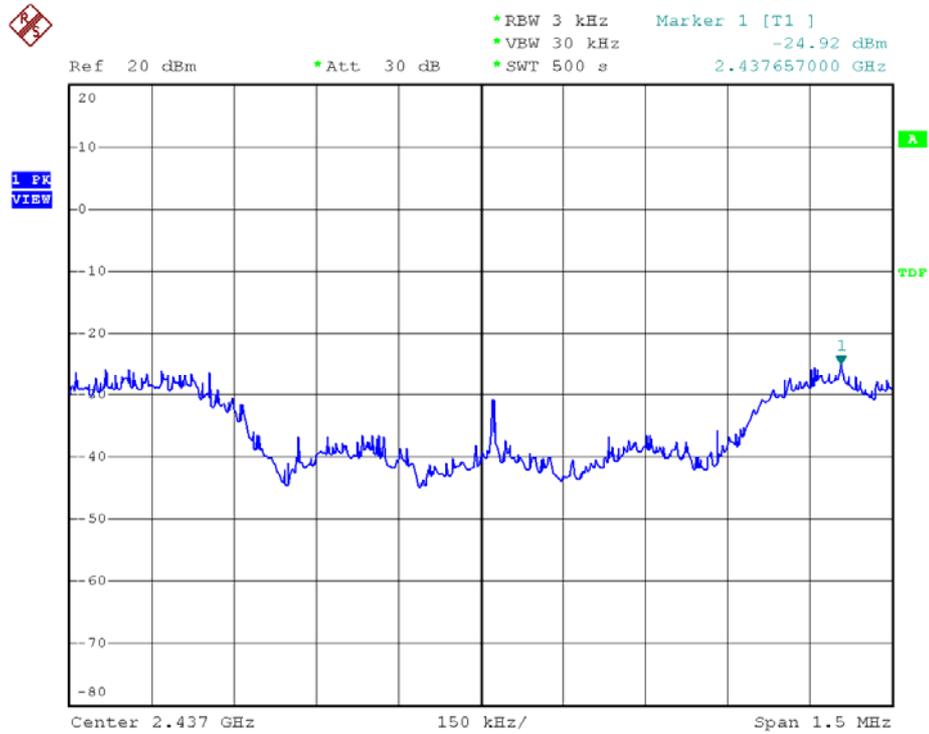


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 03

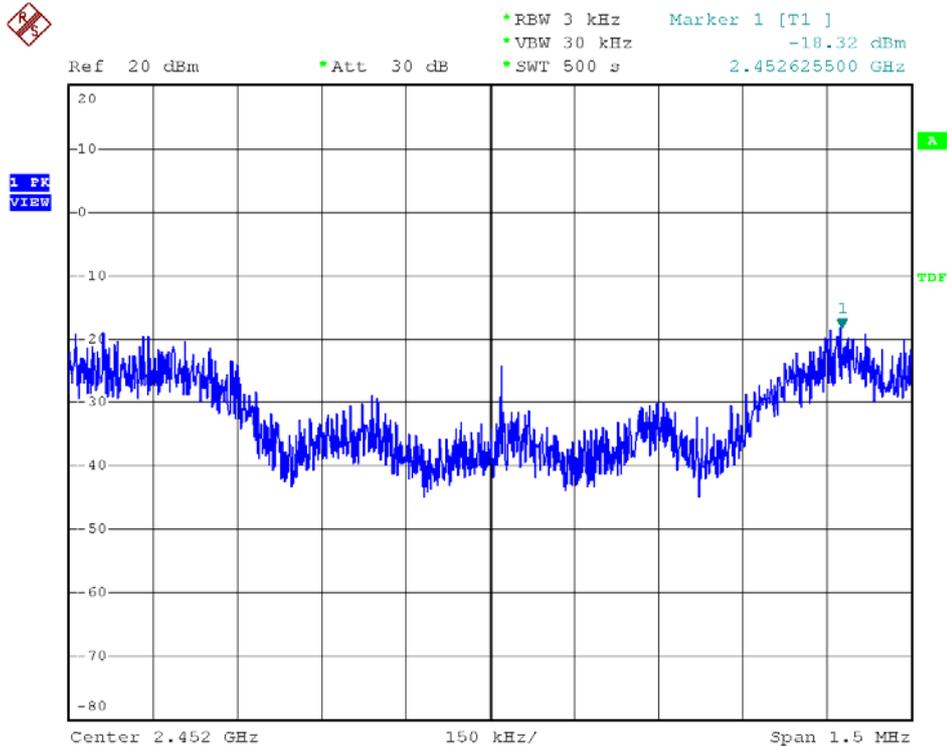




Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 06

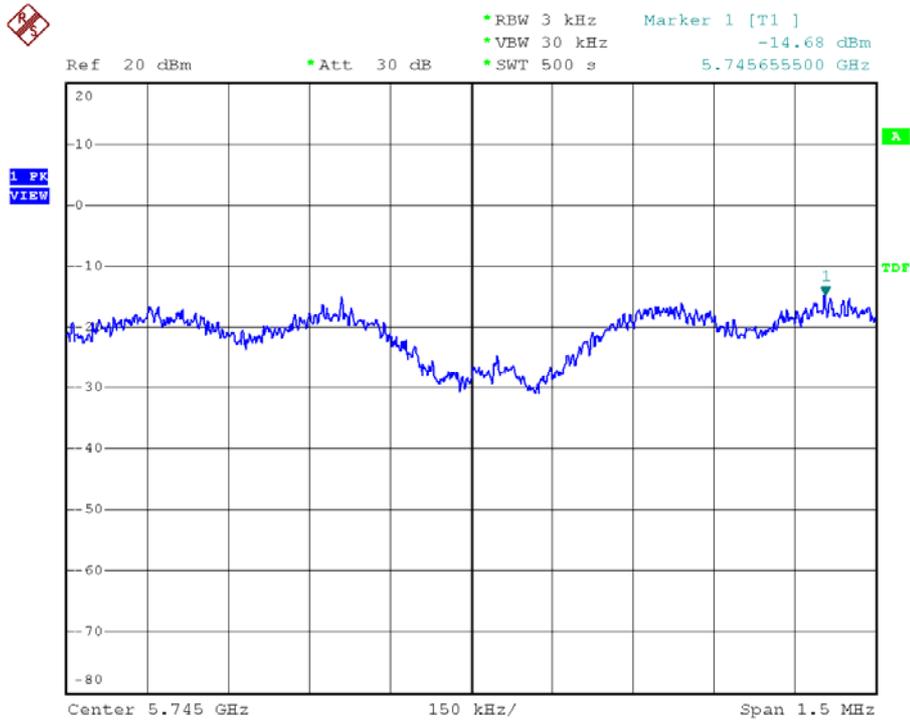


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 09

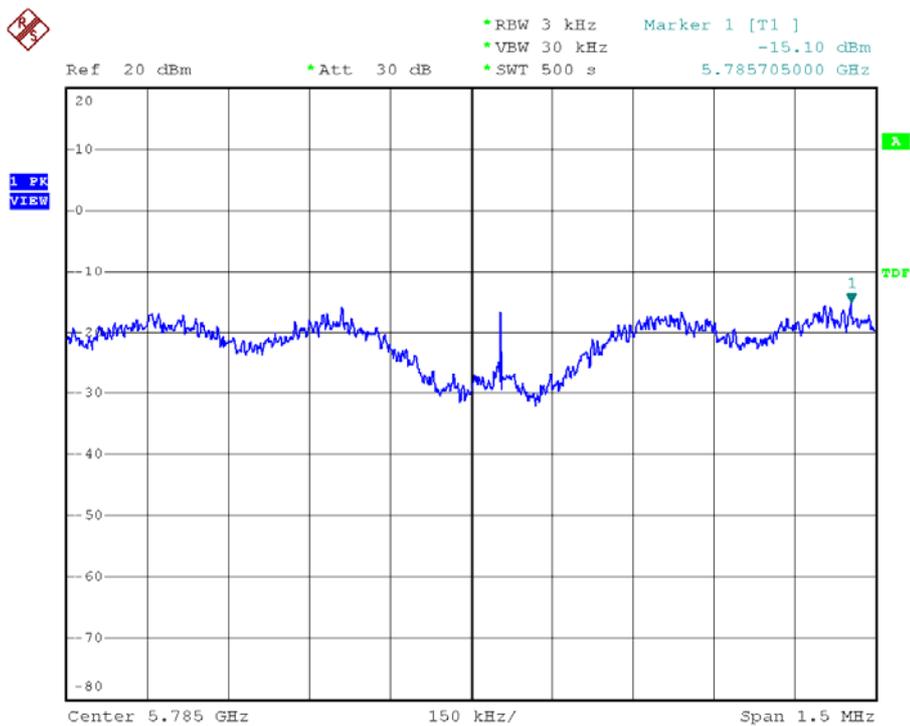




Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 149

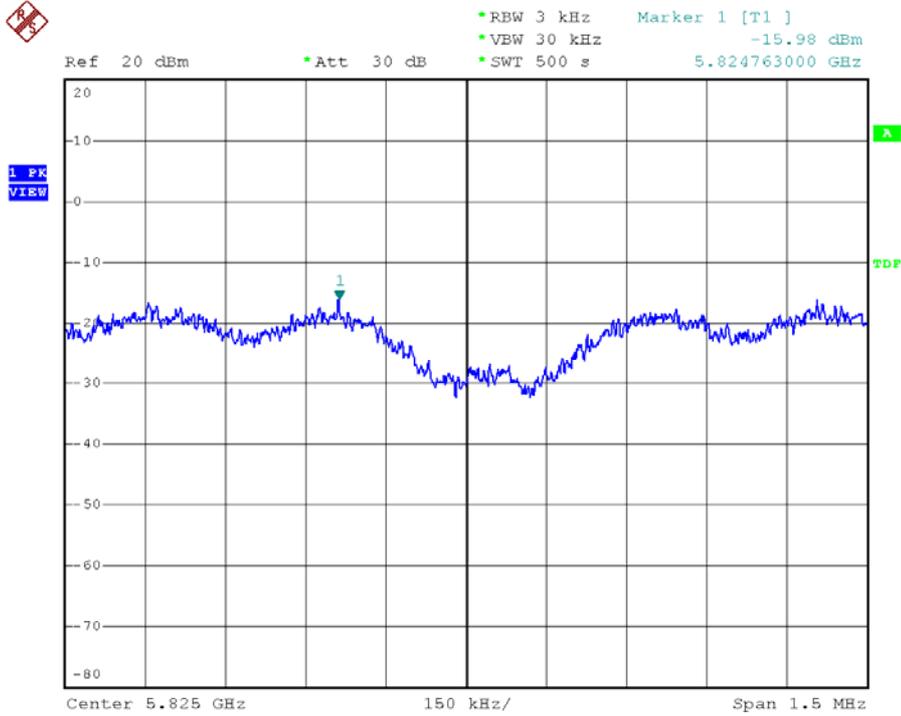


Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 157

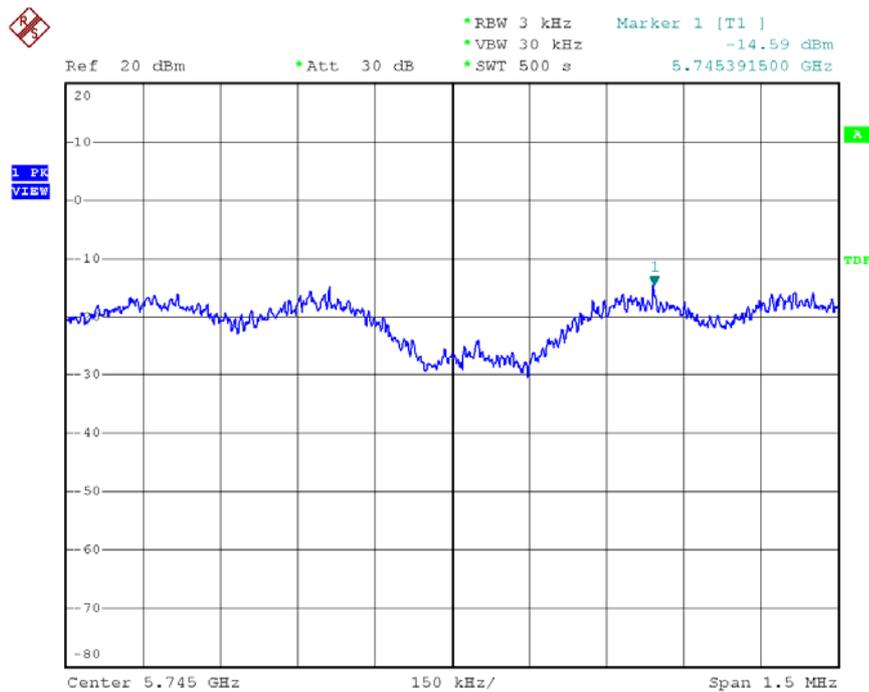




Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 165

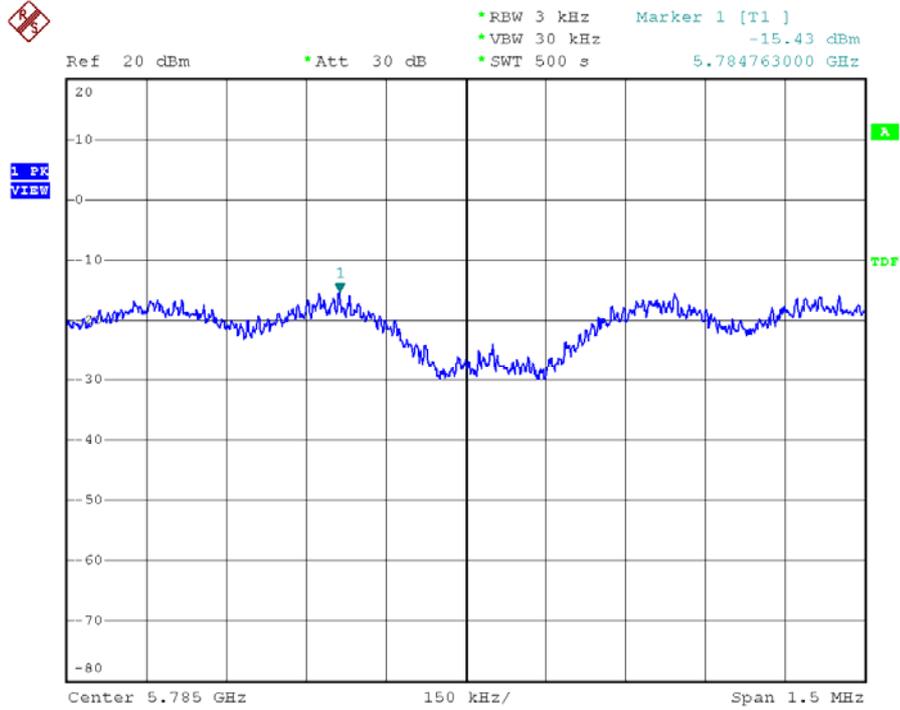


Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 149

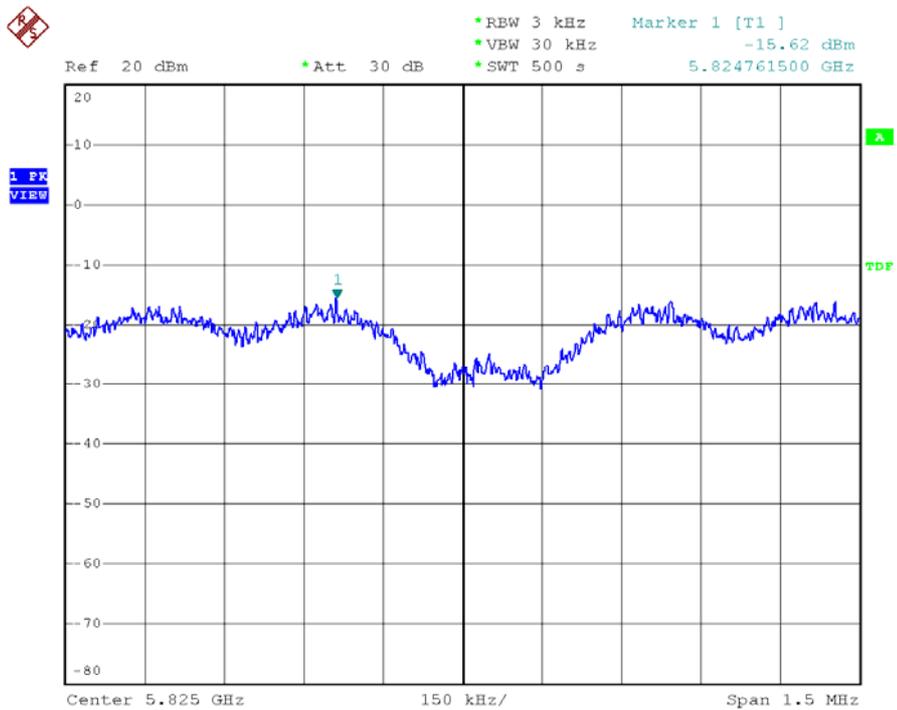




Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 157

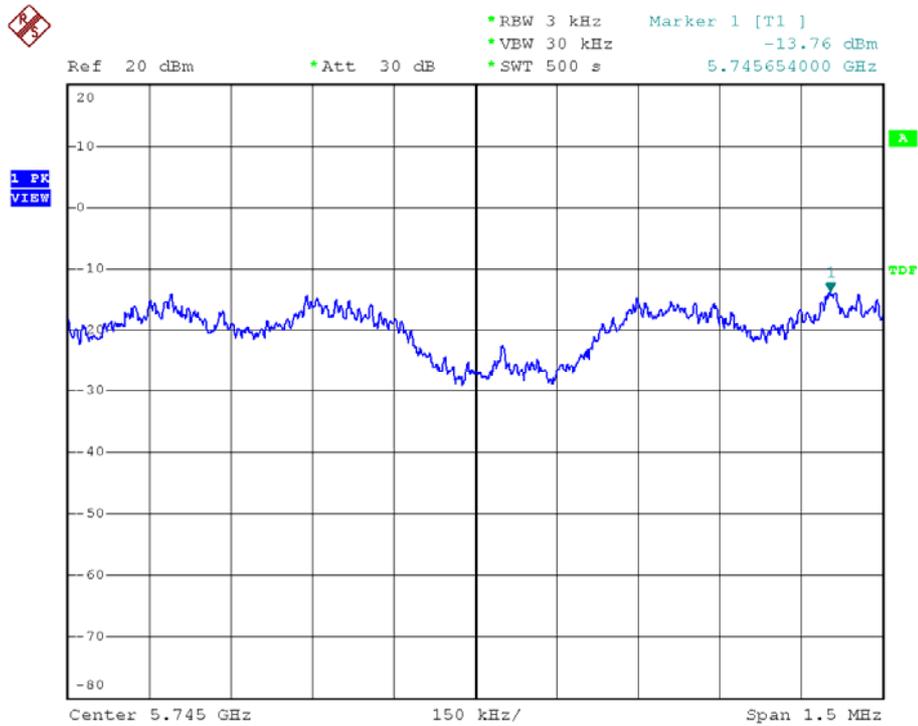


Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 165

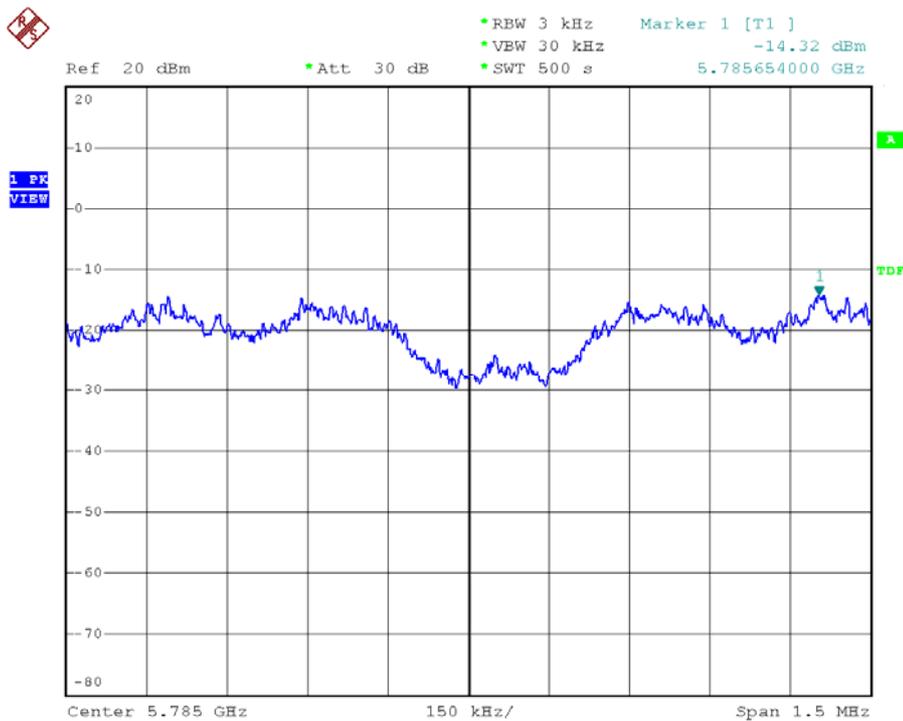




Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 149

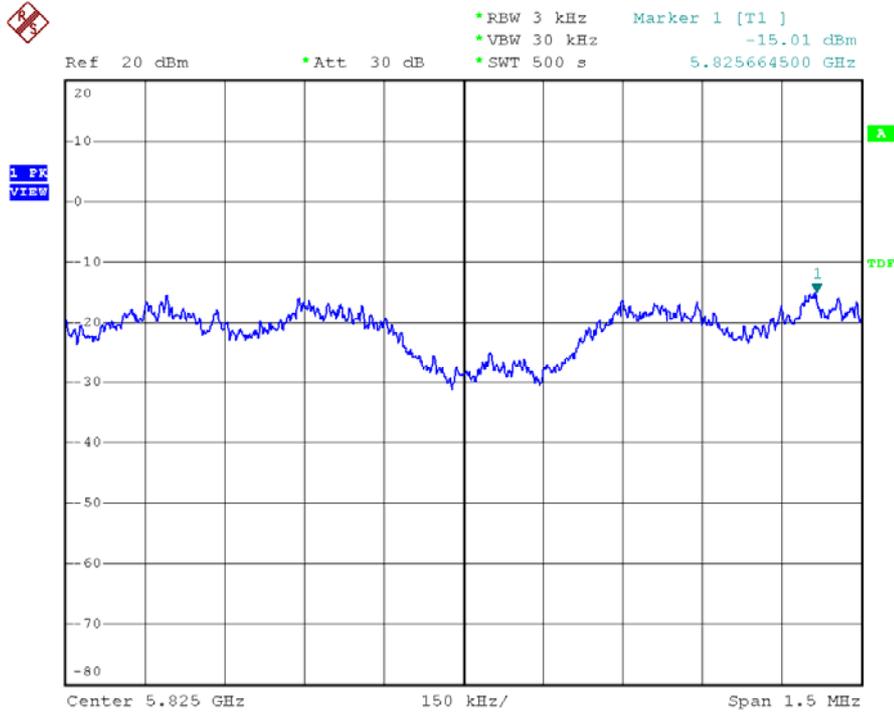


Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 157

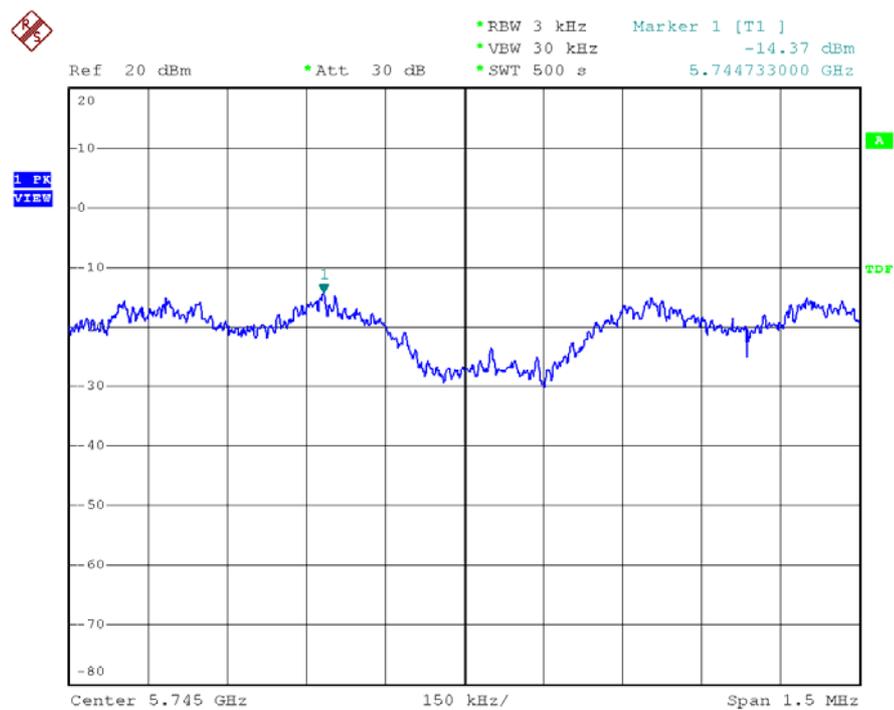




Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 165

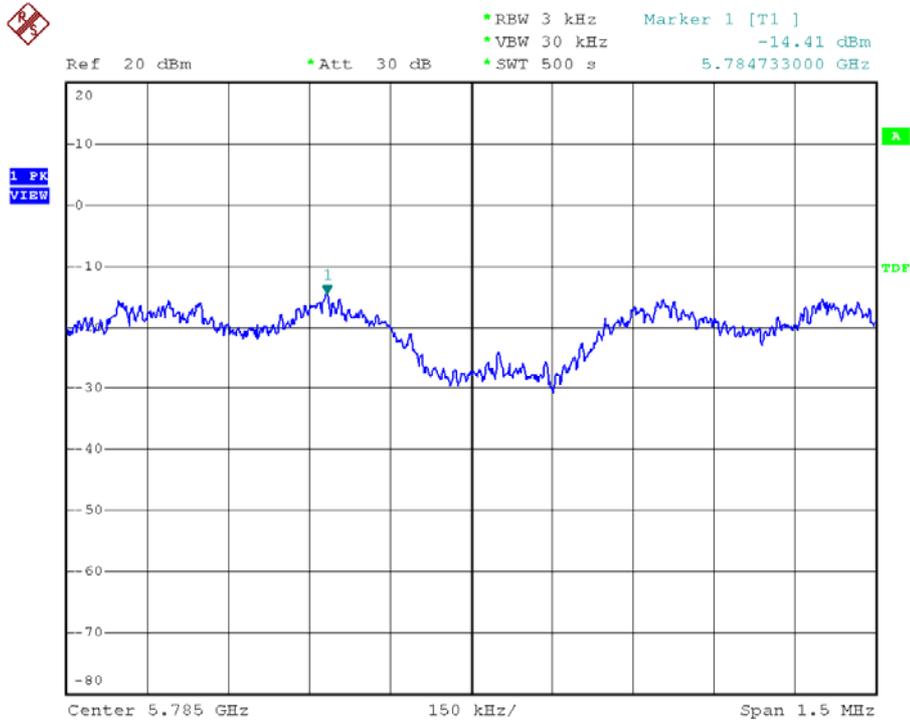


Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 149

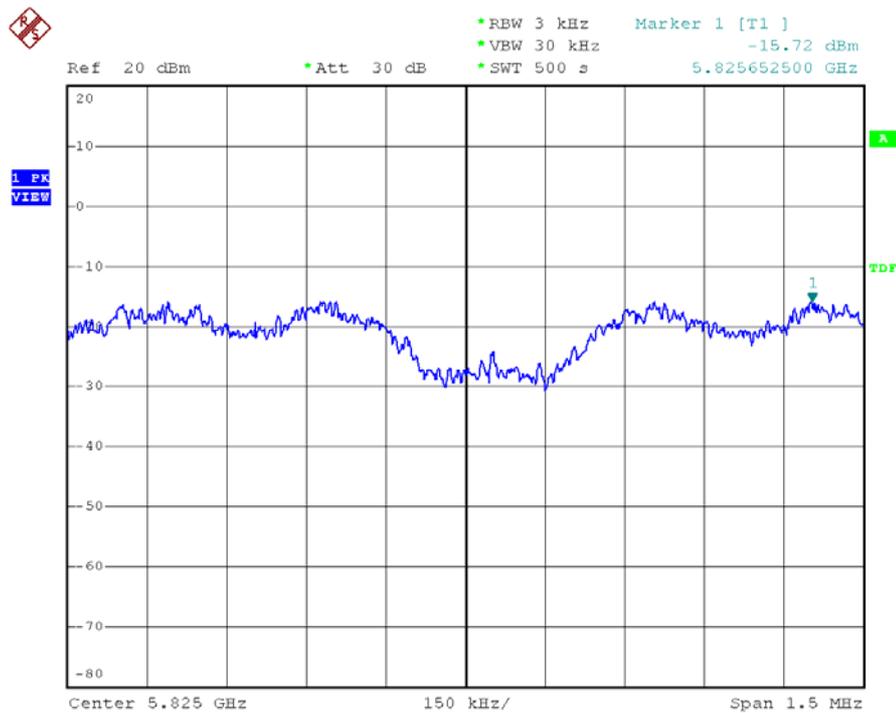




Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 157

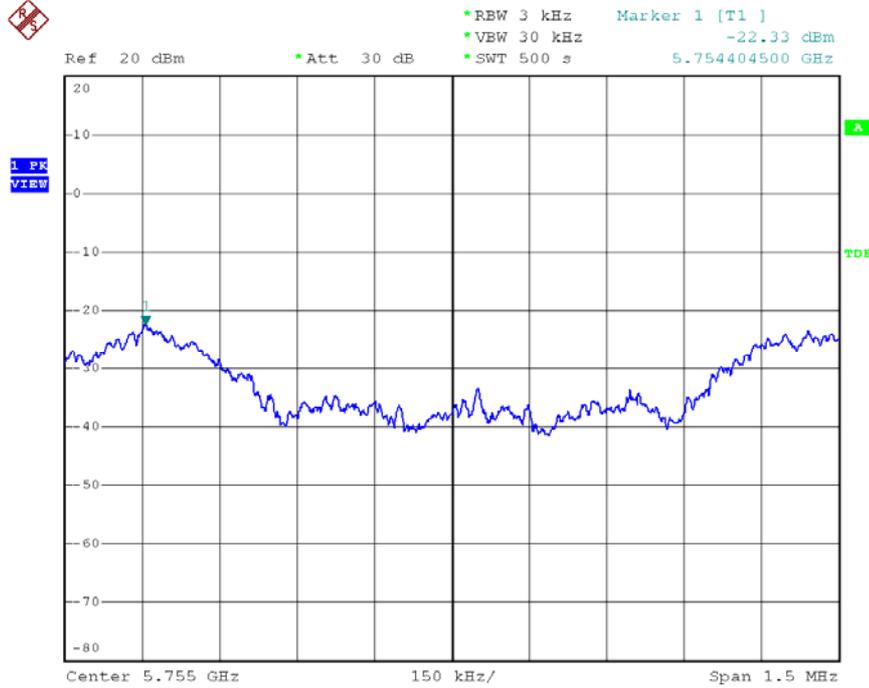


Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
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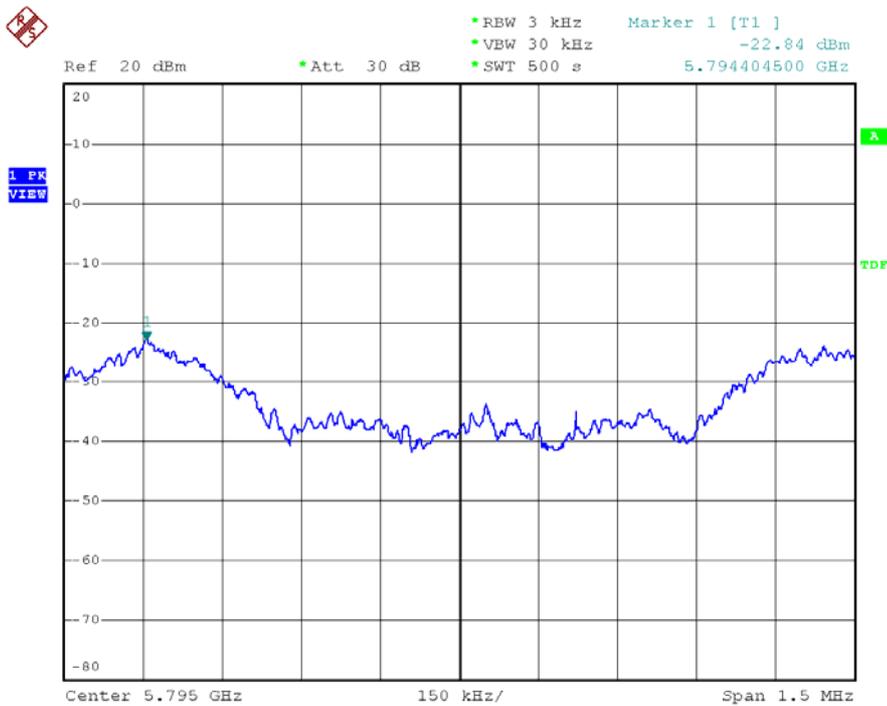




Modulation Standard: 802.11an HT40 (270Mbps), Ant3  
Channel: 151

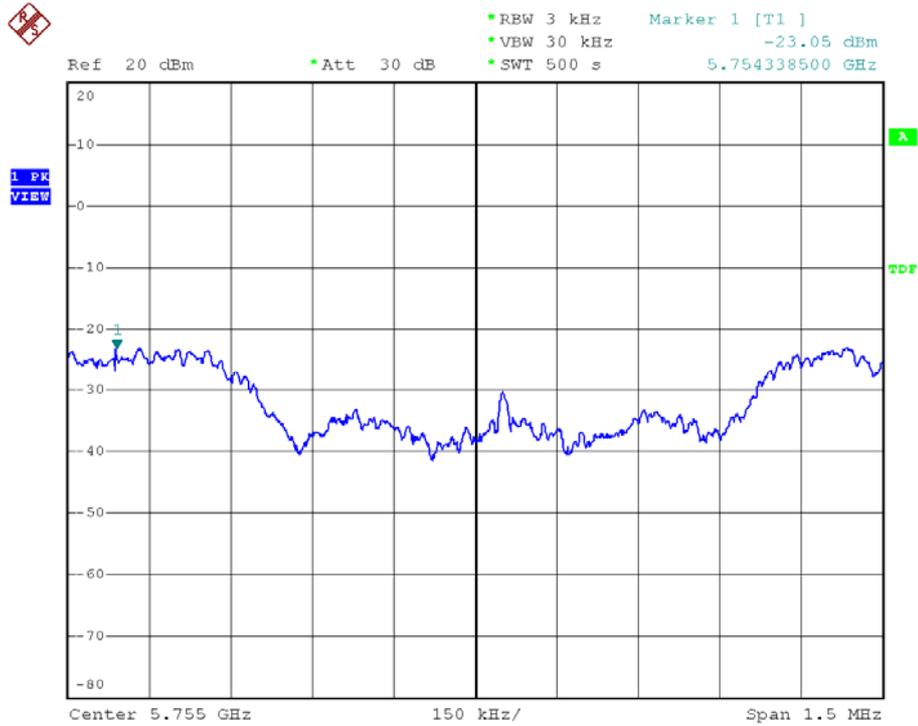


Modulation Standard: 802.11an HT40 (270Mbps), Ant3  
Channel: 159

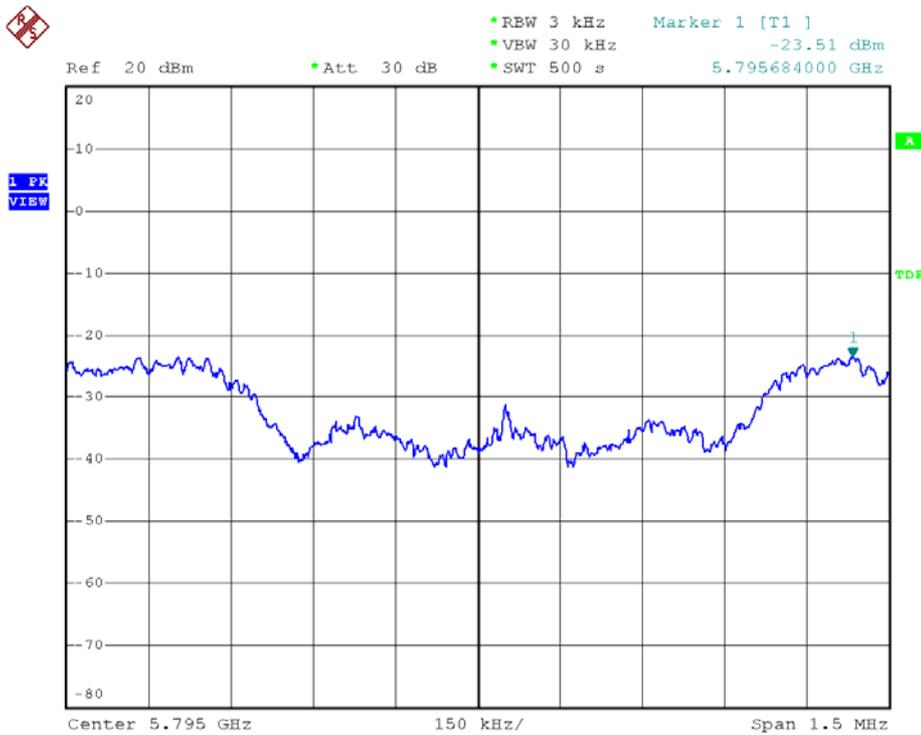




Modulation Standard: 802.11an HT40 (270Mbps), Ant5  
Channel: 151



Modulation Standard: 802.11an HT40 (270Mbps), Ant5  
Channel: 159





## 9. Band Edges Measurement

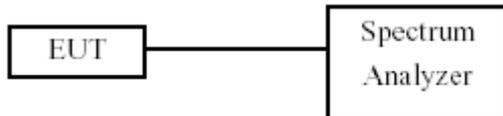
### 9.1 Test Limit

Below  $-20\text{dB}$  of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

### 9.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. The band edges was measured and recorded.

### 9.3 Test Setup Layout



### 9.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21



## 9.5 Test Result and Data

Test Date: Dec. 14, 2008

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			Ant1	Ant2	Ant1	Ant2
802.11b (11Mbps)	01	2412	2399.80	2398.00	-43.34	-44.38
	11	2462	2860.00	2483.70	-50.06	-51.73
802.11g (54Mbps)	01	2412	2399.80	2399.60	-43.38	-41.61
	11	2462	2483.90	2483.70	-51.60	-50.08
			Ant3	Ant5	Ant3	Ant5
802.11n HT20 (130Mbps)	01	2412	2399.60	2483.70	-29.32	-51.25
	11	2462	2483.70	2399.60	-50.64	-28.21
802.11n HT40 (270Mbps)	03	2422	2399.80	2399.80	-33.50	-32.29
	09	2452	2484.50	2484.45	-46.57	-43.57

Test Date: Dec. 26, 2008

Temperature: 20

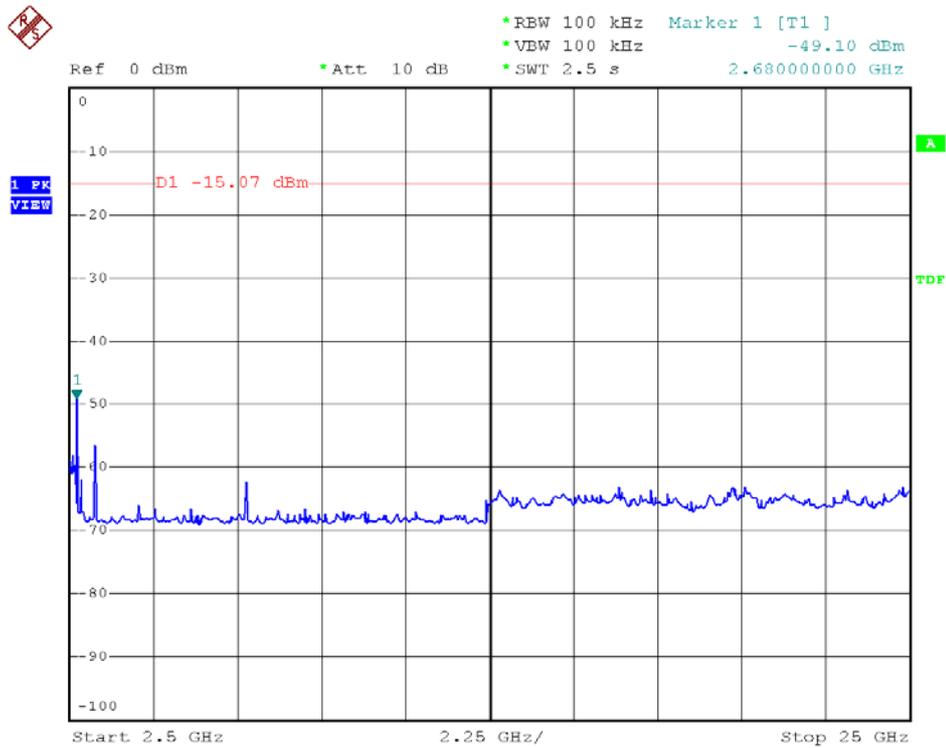
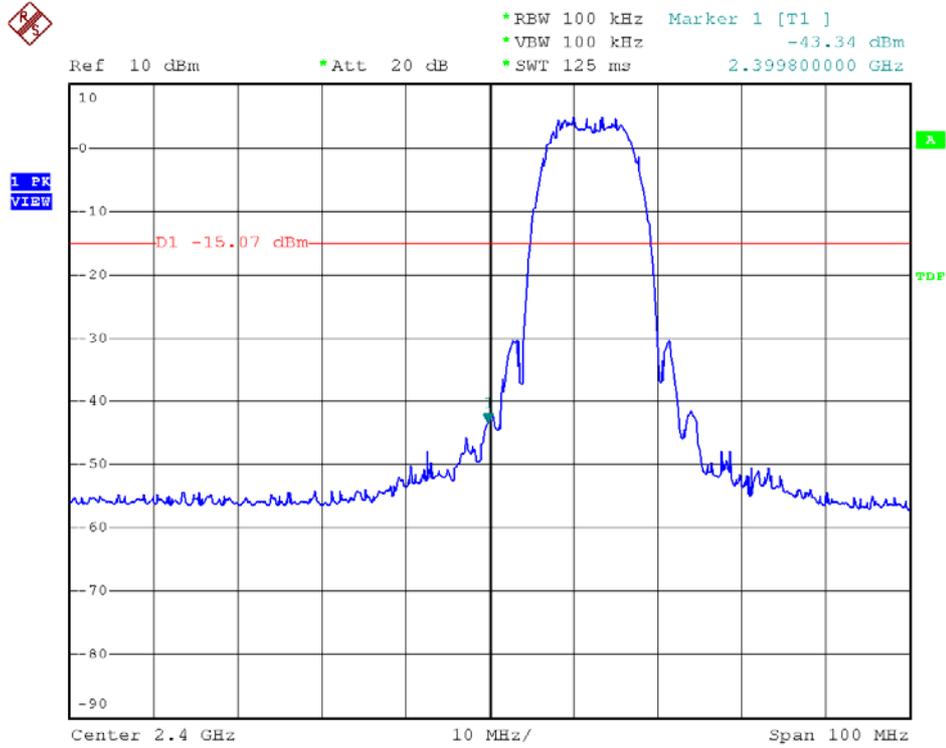
Atmospheric pressure: 1008 hPa

Humidity: 60%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			Ant3	Ant5	Ant3	Ant5
802.11a (54Mbps)	149	5745	40000.00	39932.00	-45.76	-46.27
	165	5825	40000.00	11644.00	-44.73	-43.36
802.11an HT20 (130Mbps)	149	5745	5723.20	5724.00	-40.31	-36.21
	165	5825	5850.40	11644.00	-38.70	-34.03
802.11an HT40 (270Mbps)	151	5755	5271.40	5722.60	-36.00	-29.59
	159	5795	5832.60	5827.60	-29.26	-33.15

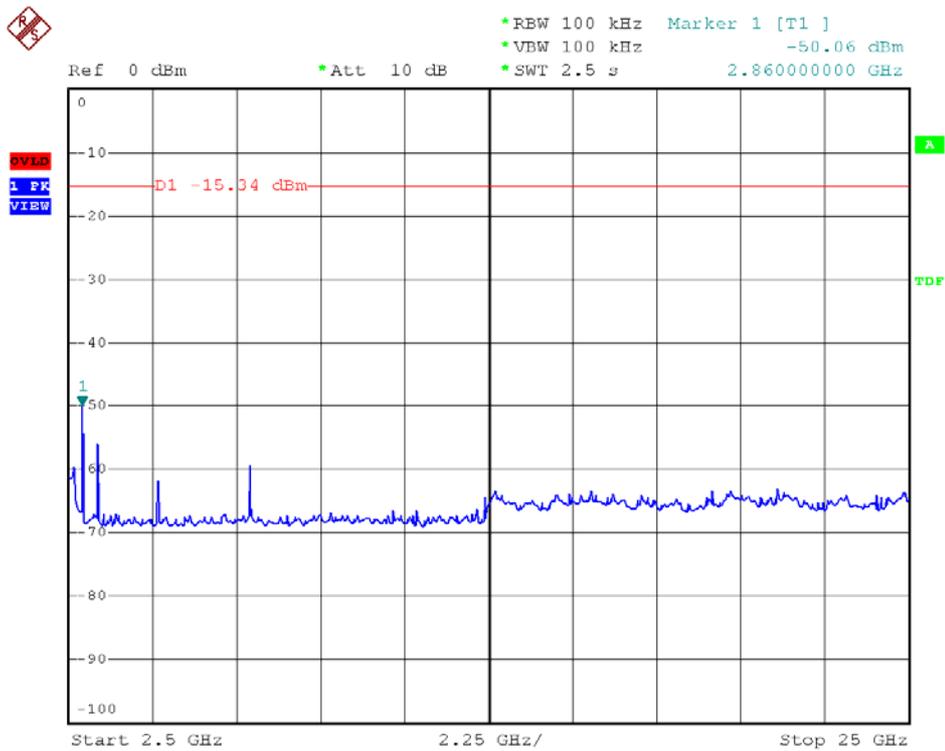
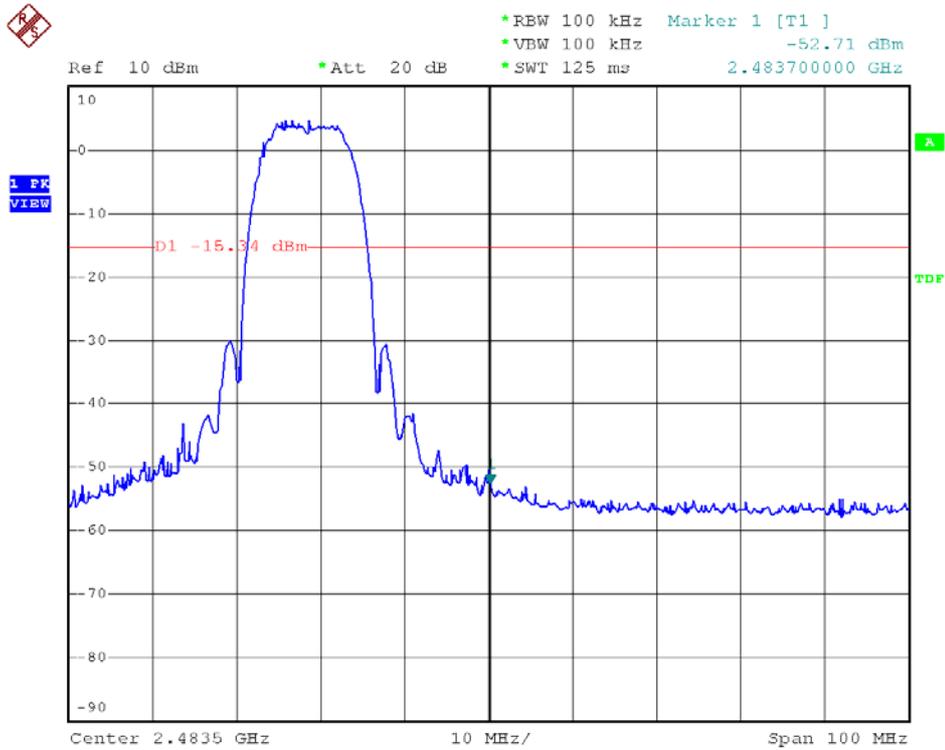


Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 01



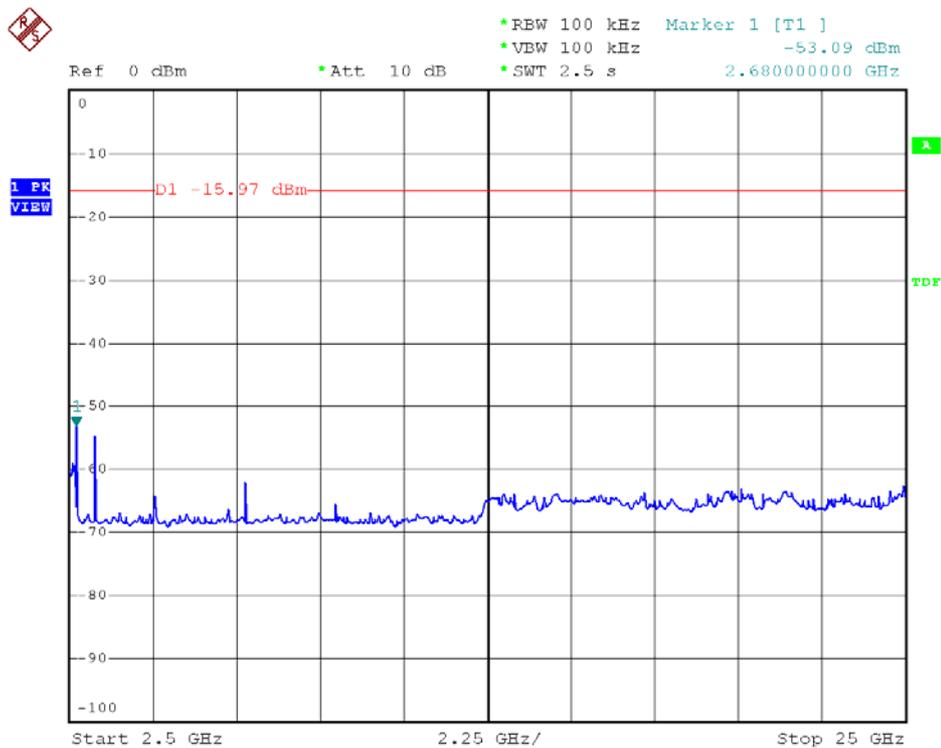
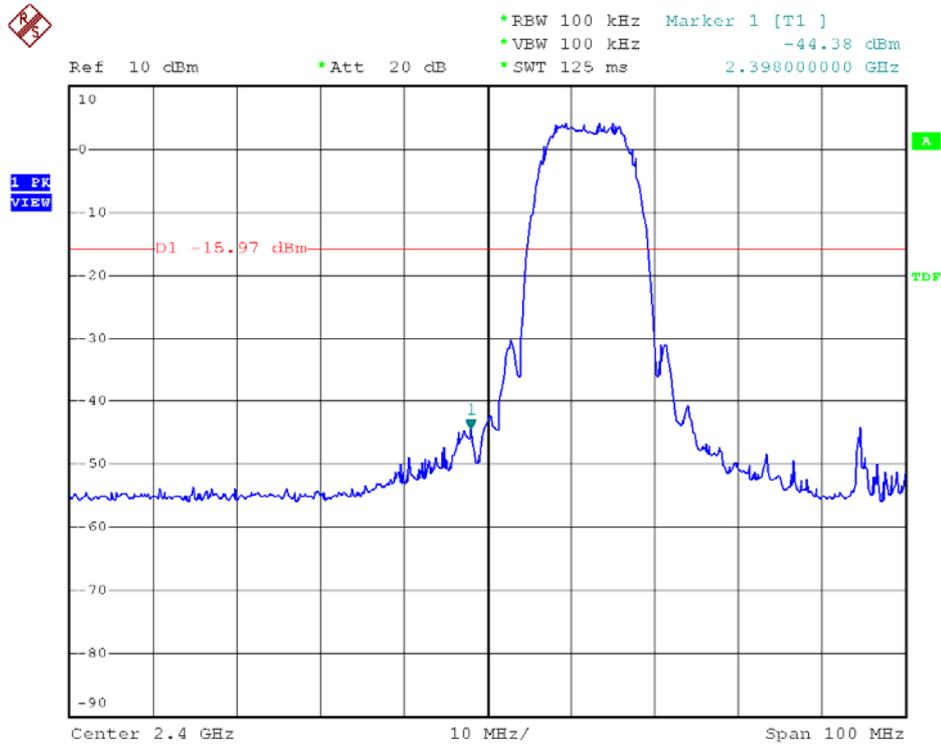


Modulation Standard: 802.11b (11Mbps), Ant1  
Channel: 11



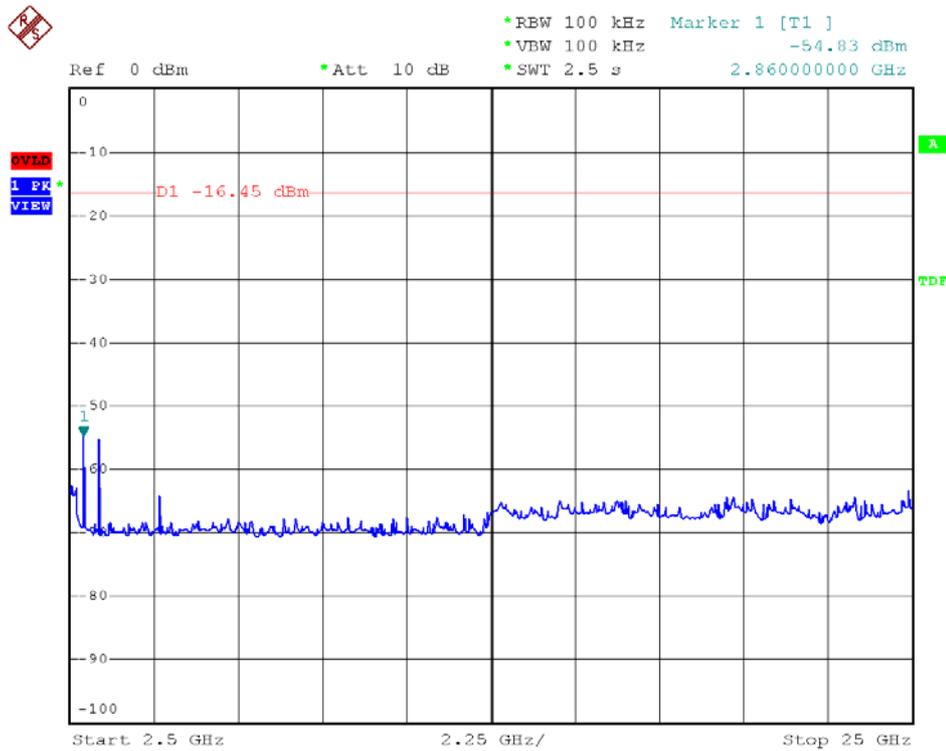
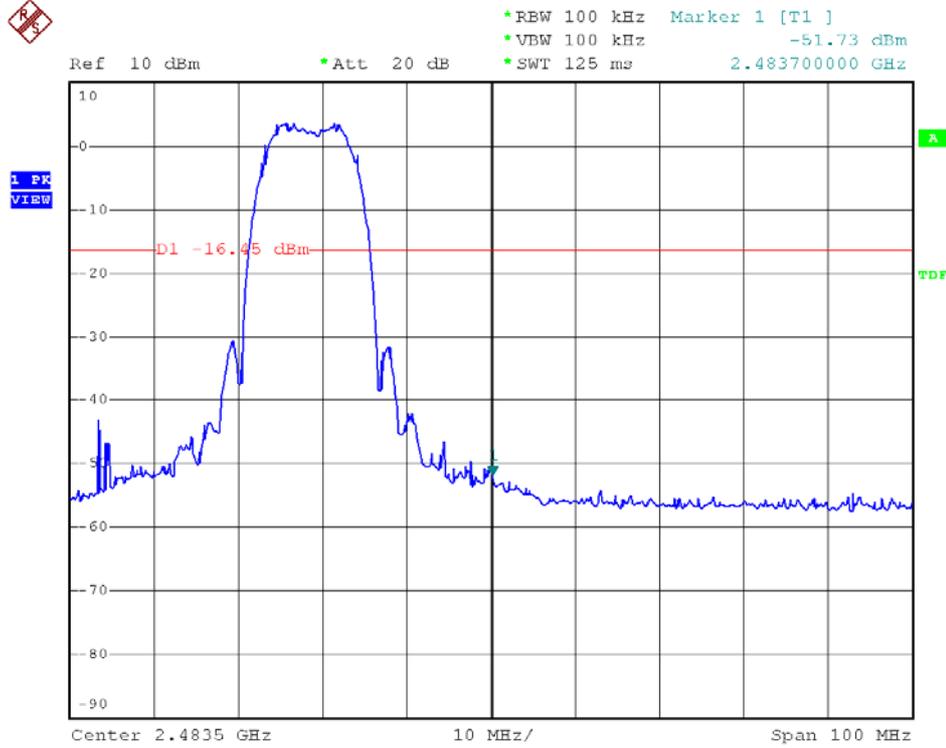


Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 01



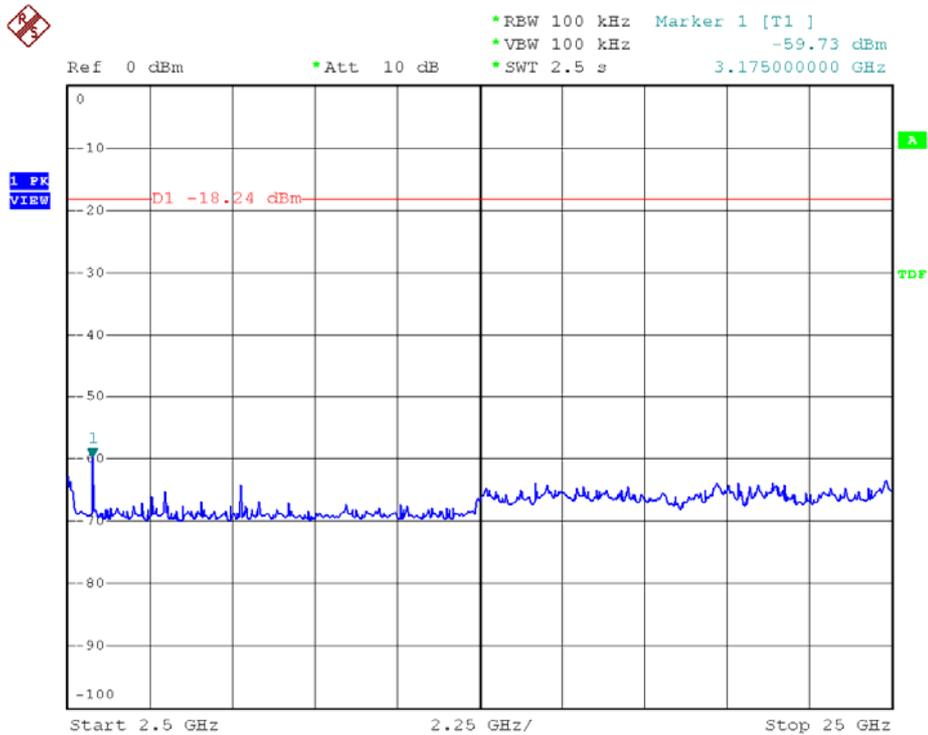
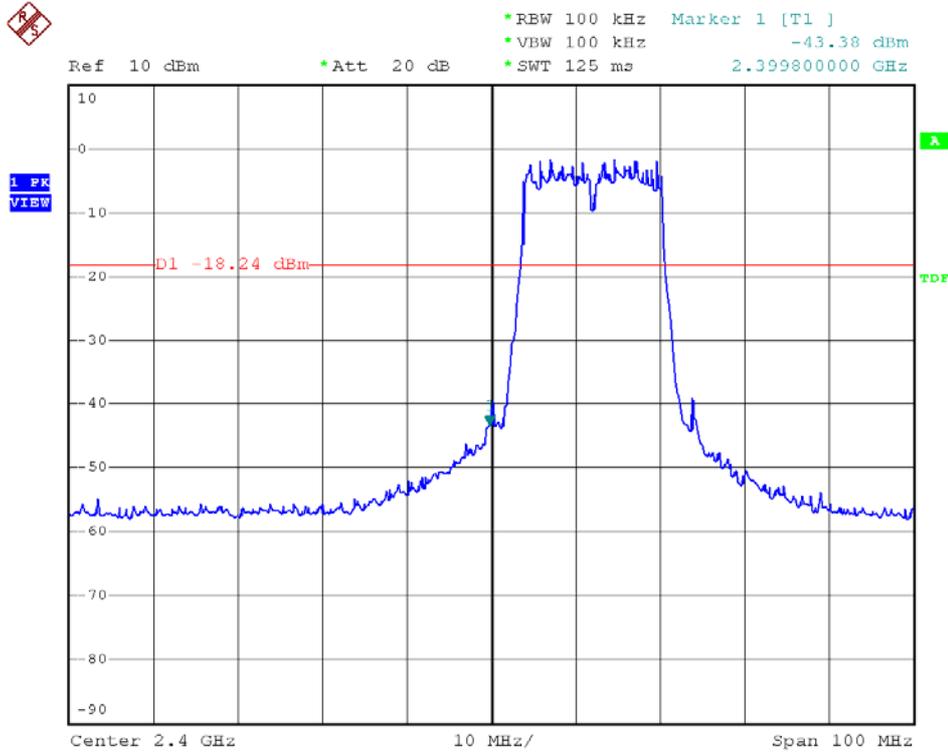


Modulation Standard: 802.11b (11Mbps), Ant2  
Channel: 11



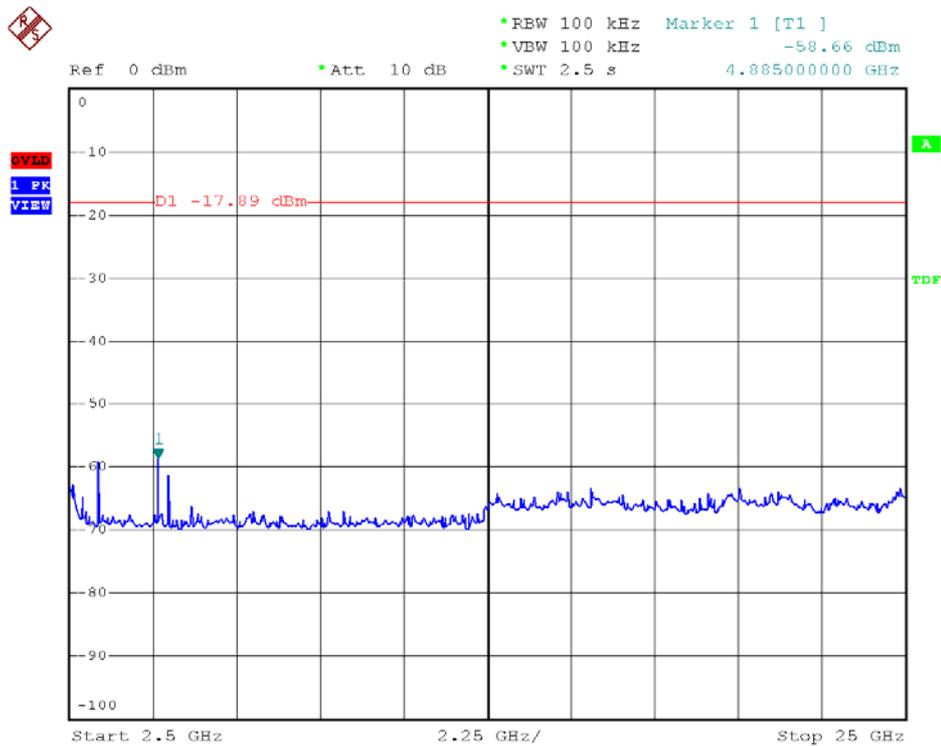
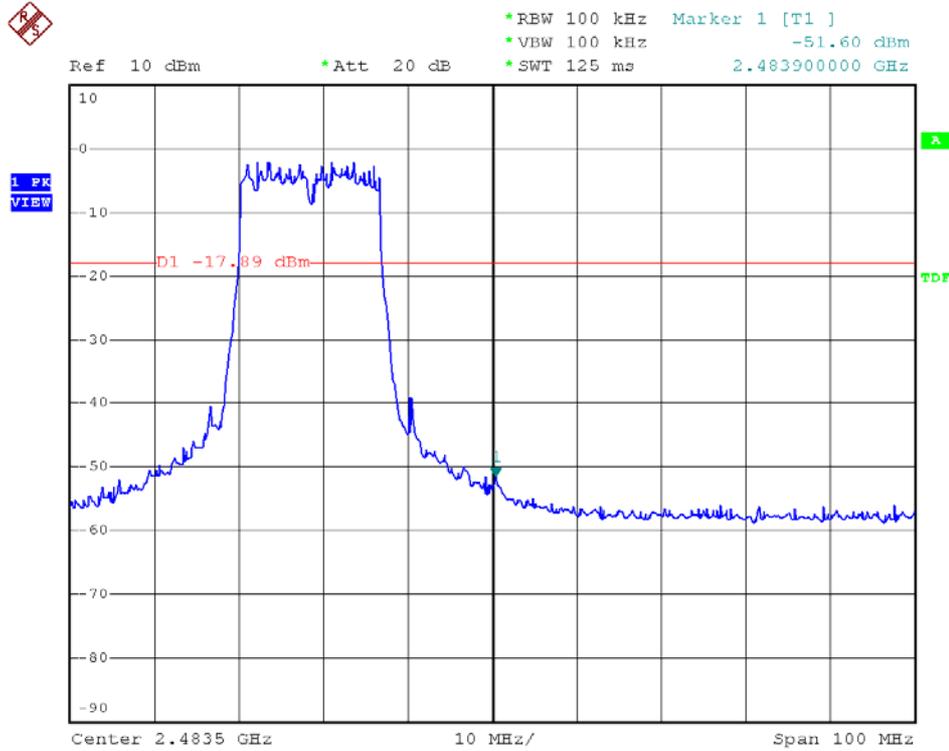


Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 01



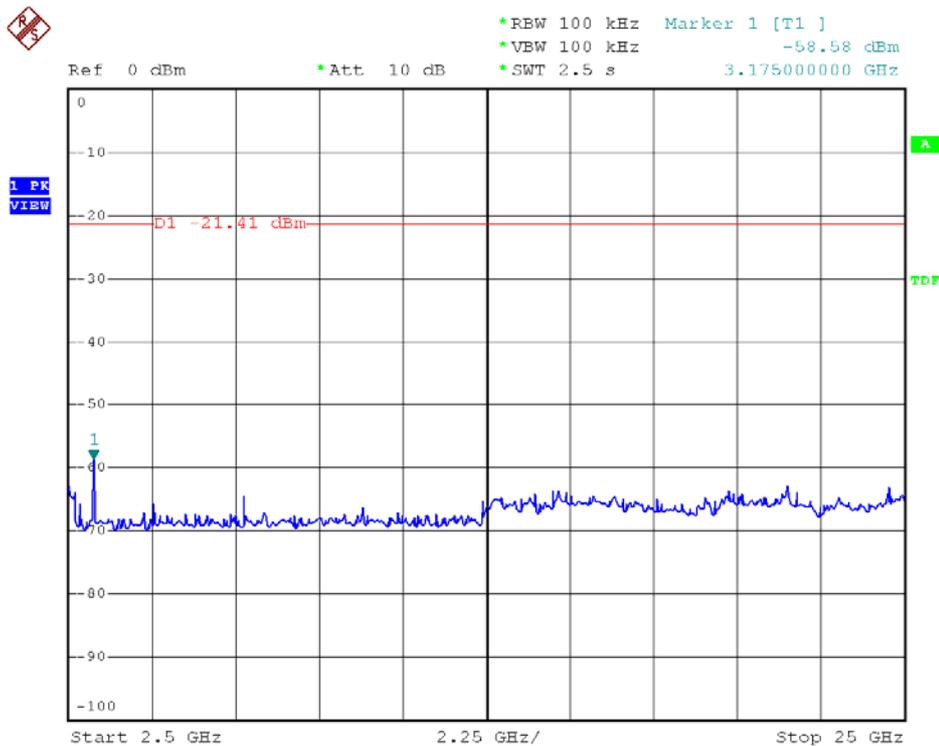
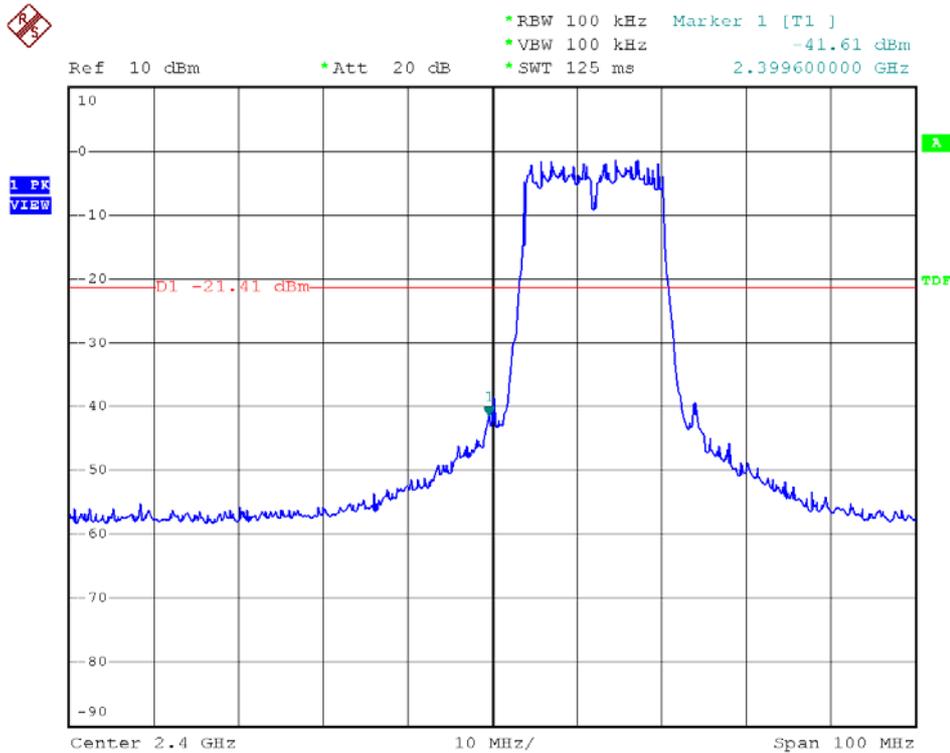


Modulation Standard: 802.11g (54Mbps), Ant1  
Channel: 11



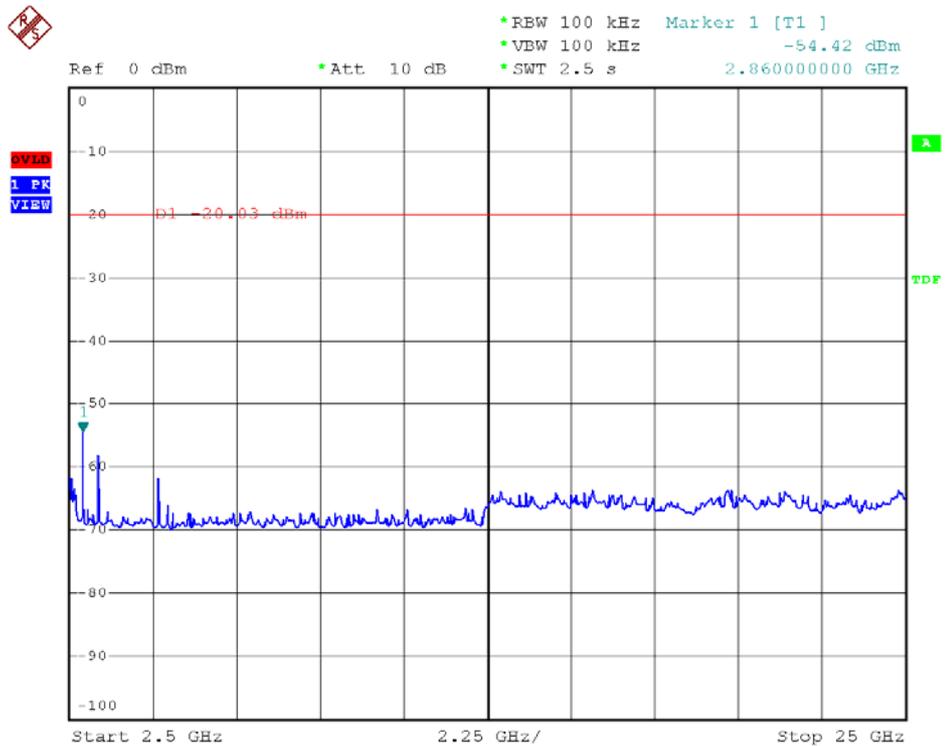
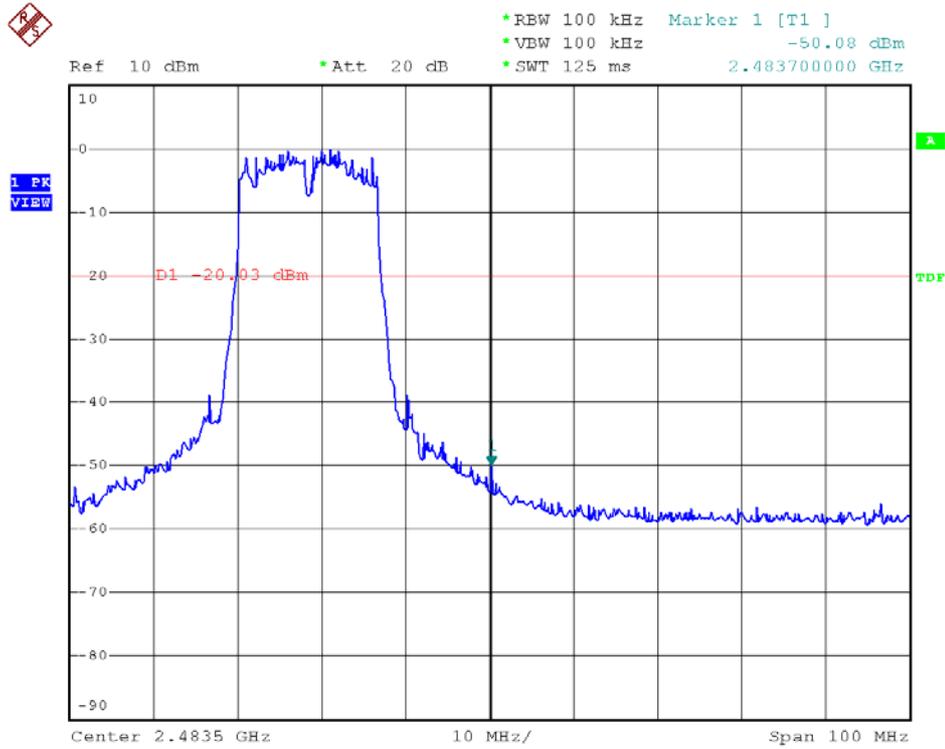


Modulation Standard: 802.11g (054Mbps), Ant2  
Channel: 01





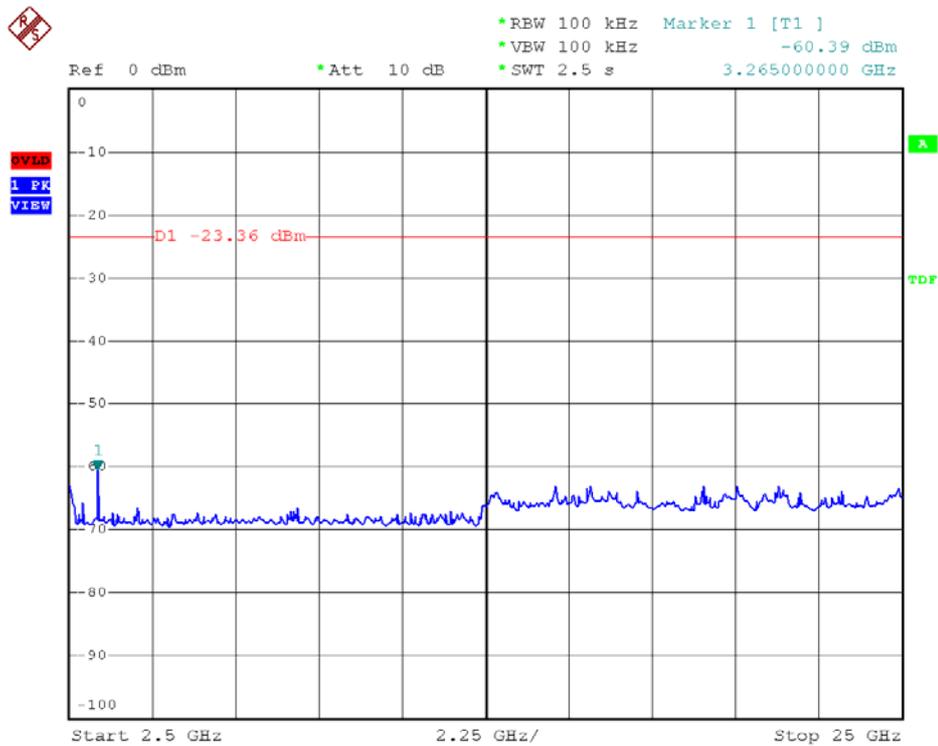
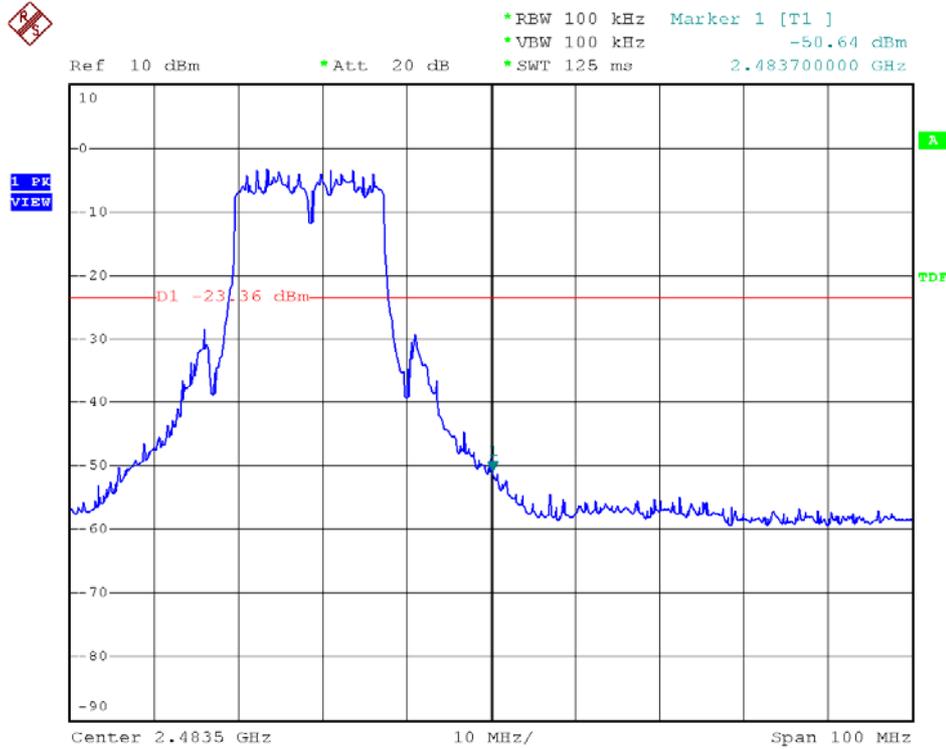
Modulation Standard: 802.11g (054Mbps), Ant2  
Channel: 11





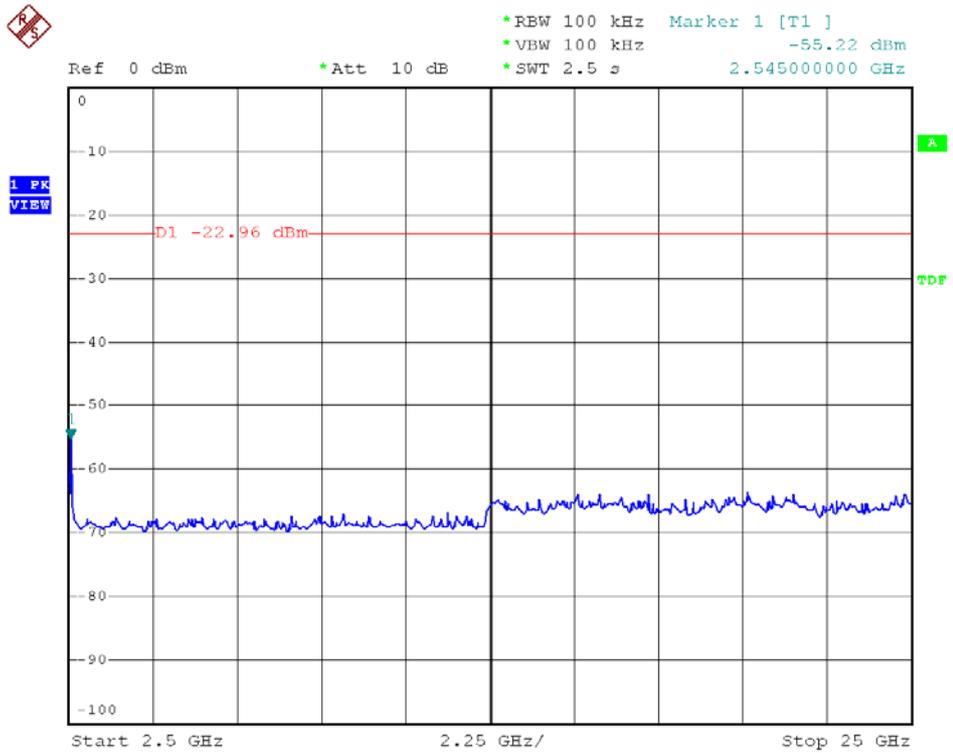
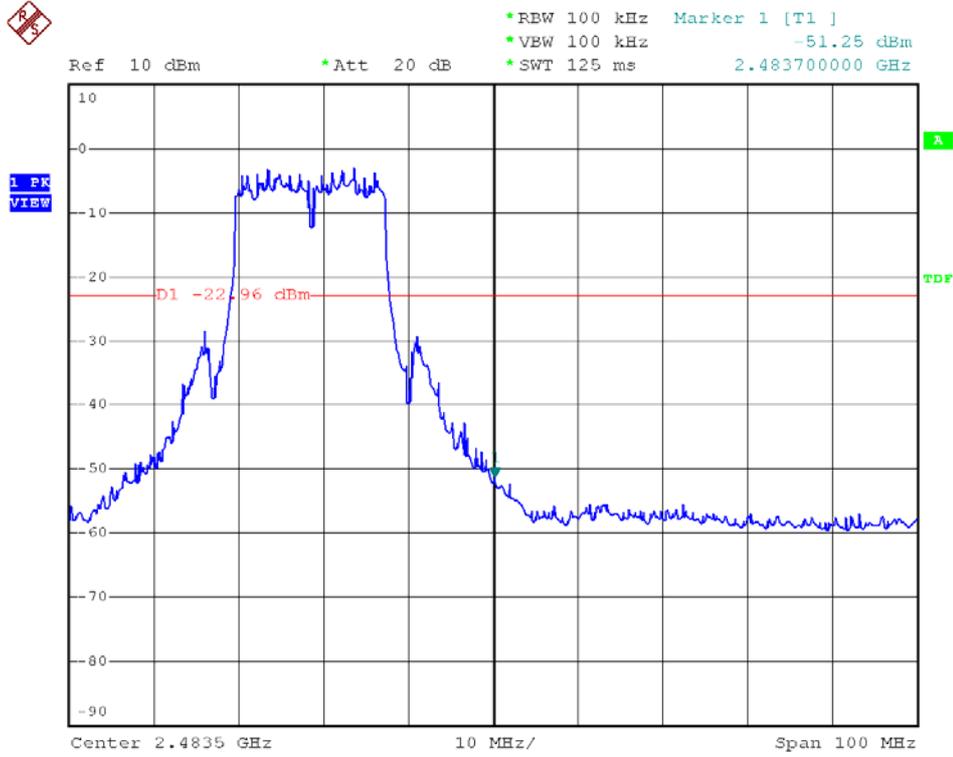


Modulation Standard: 802.11n HT20 (130Mbps), Ant3  
Channel: 11



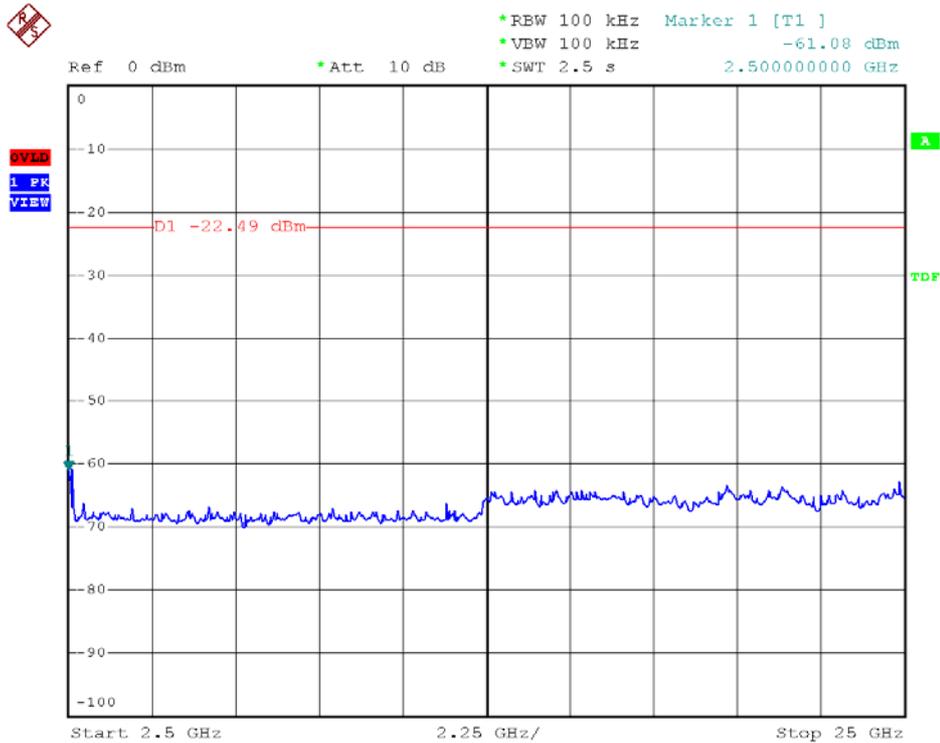
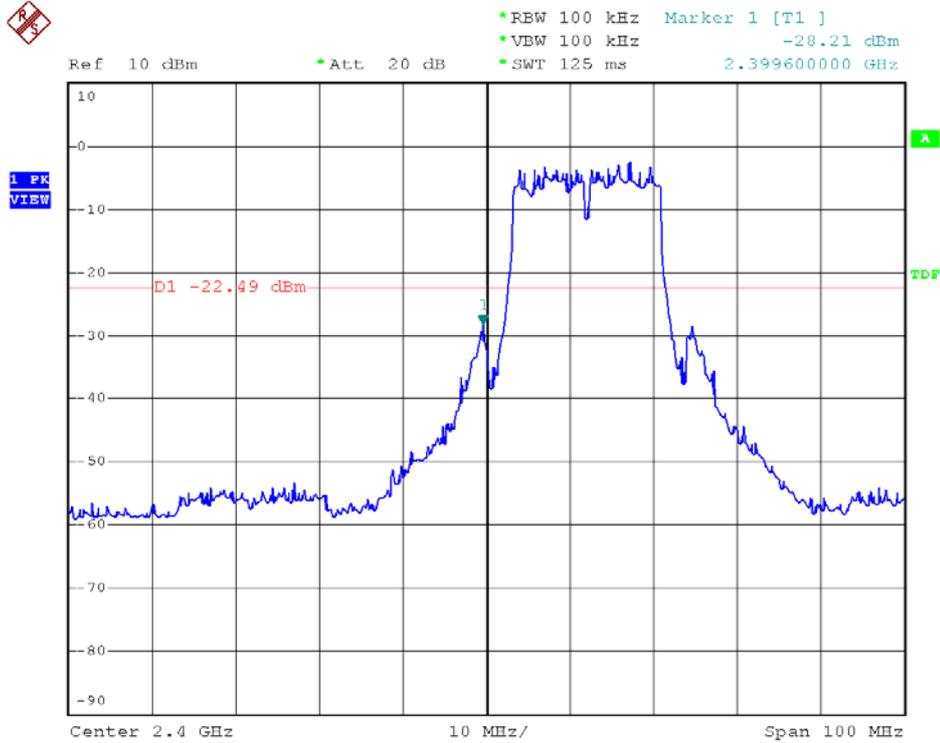


Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 01



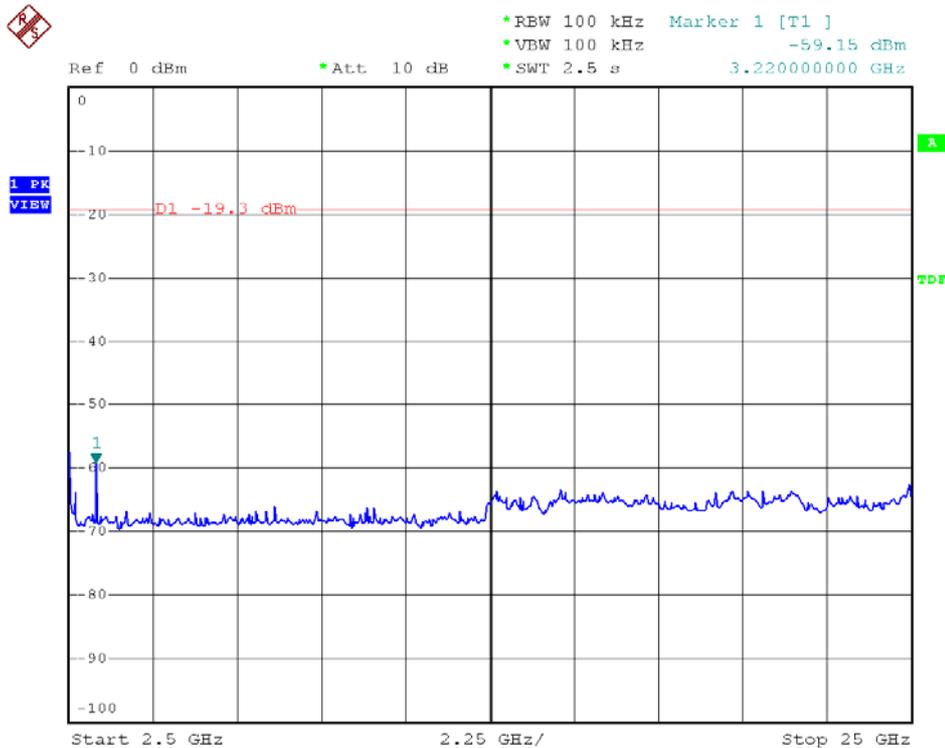
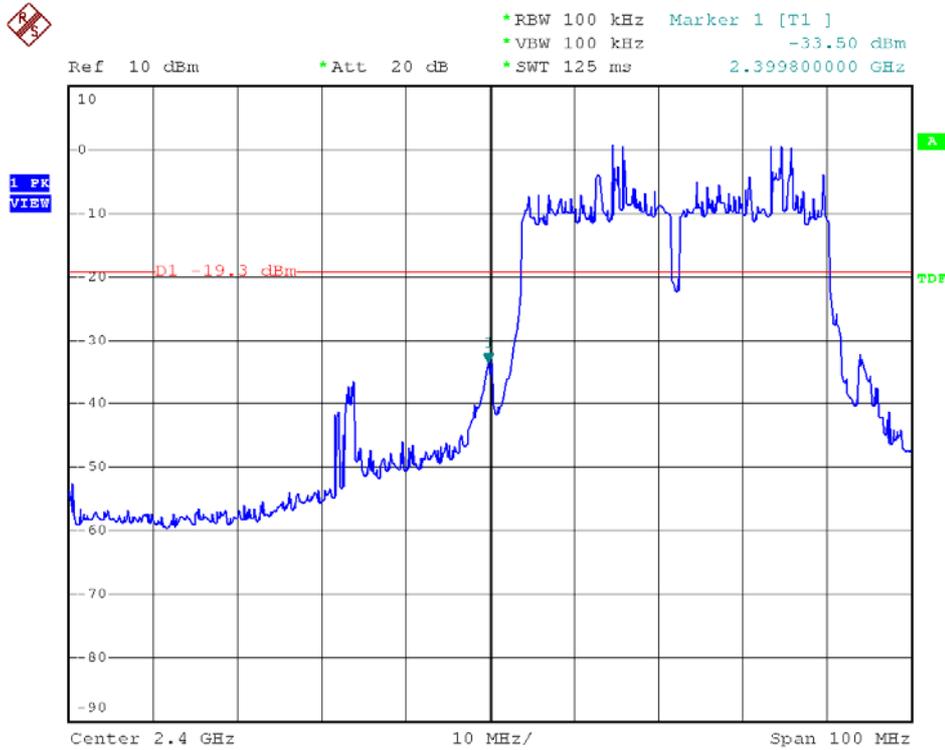


Modulation Standard: 802.11n HT20 (130Mbps), Ant5  
Channel: 11



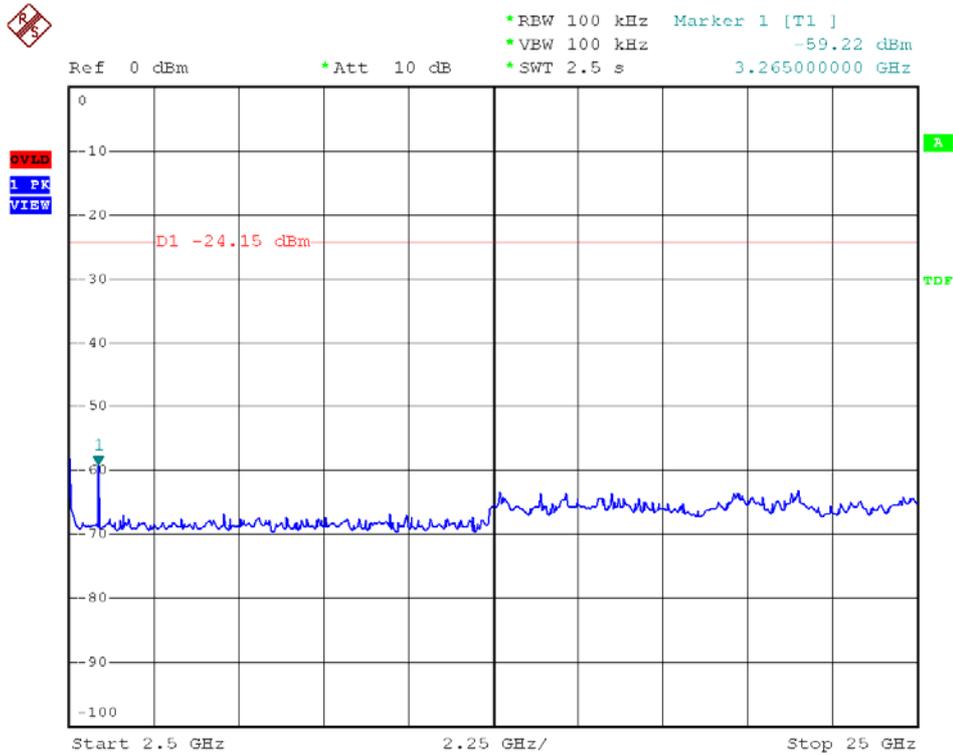
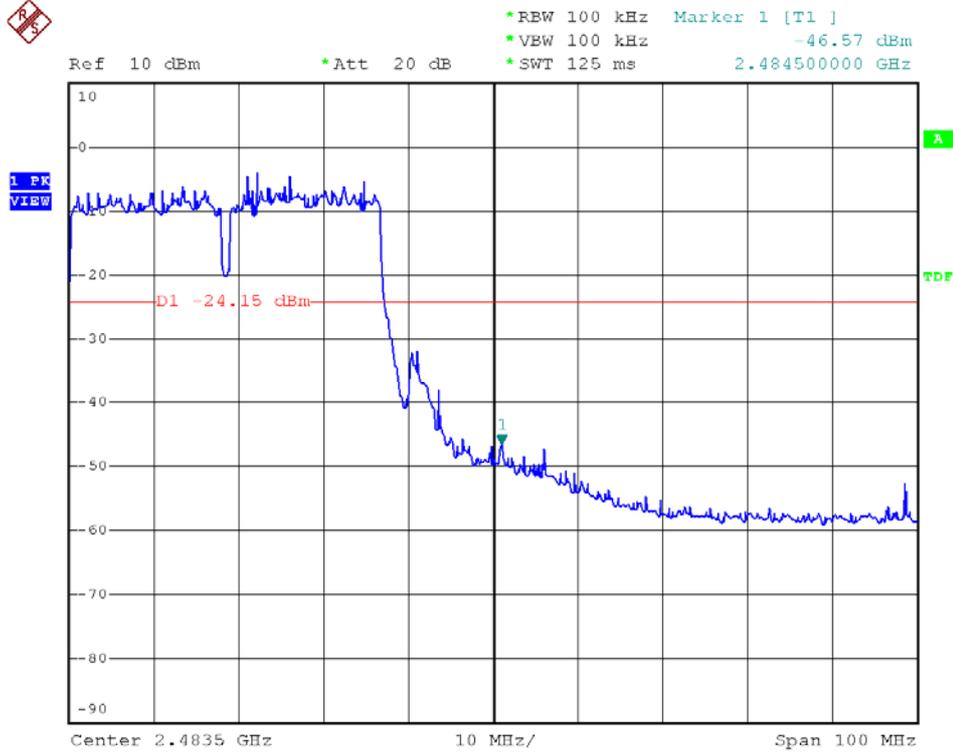


Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 03



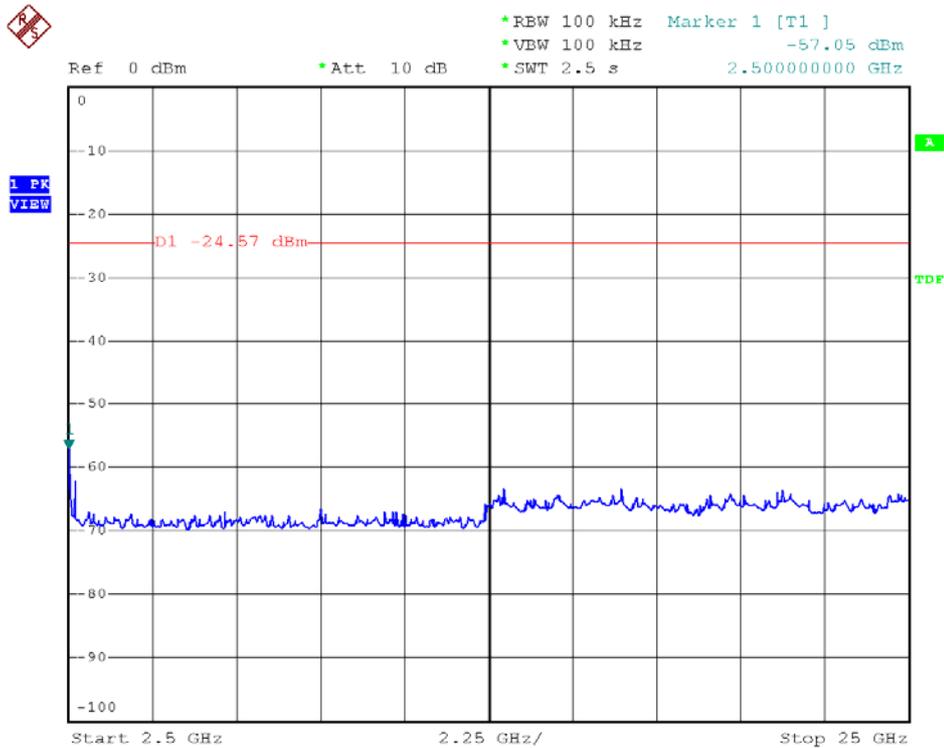
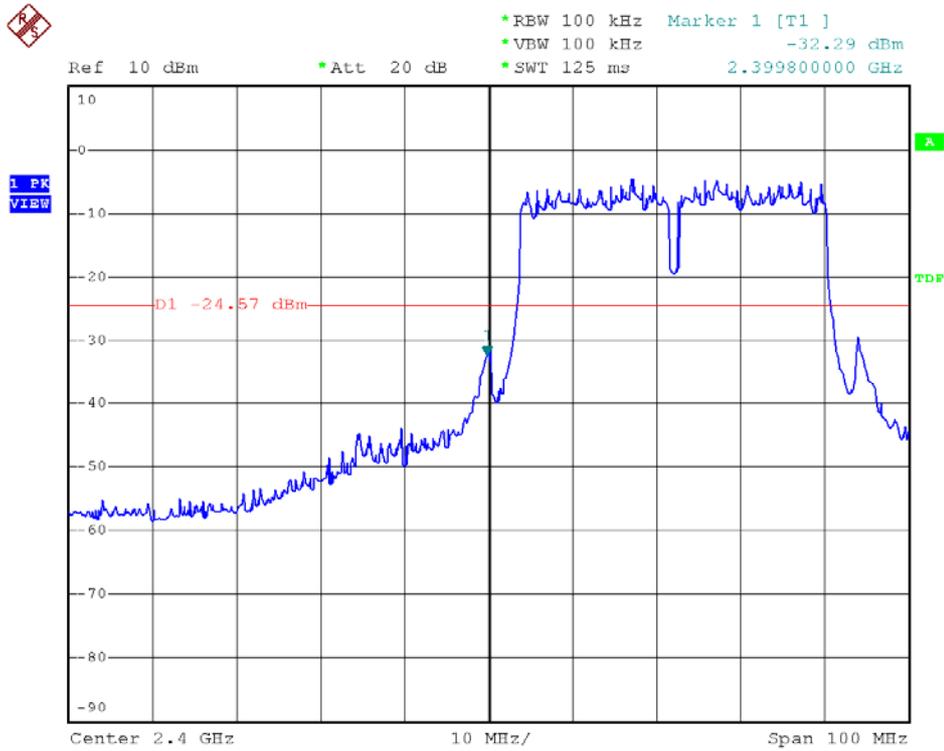


Modulation Standard: 802.11n HT40 (270Mbps), Ant3  
Channel: 09



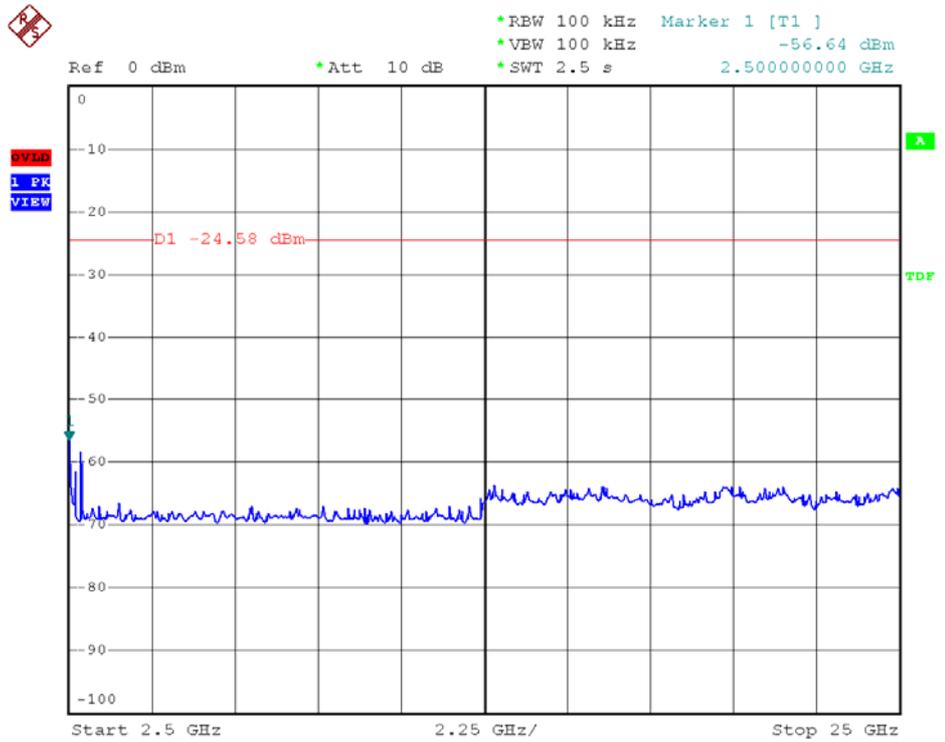
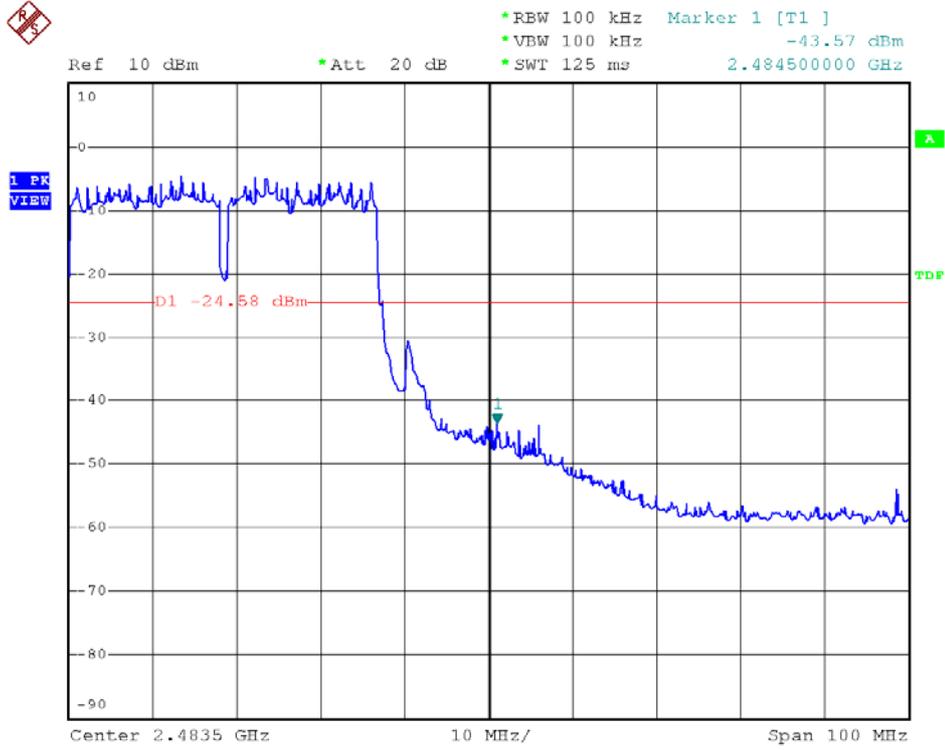


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 03



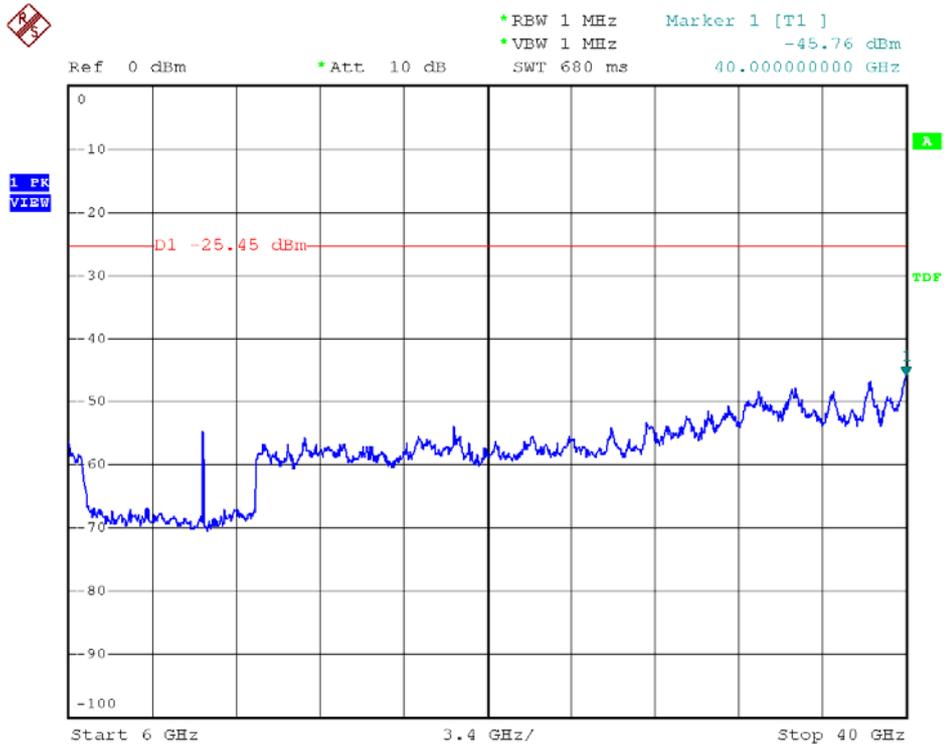
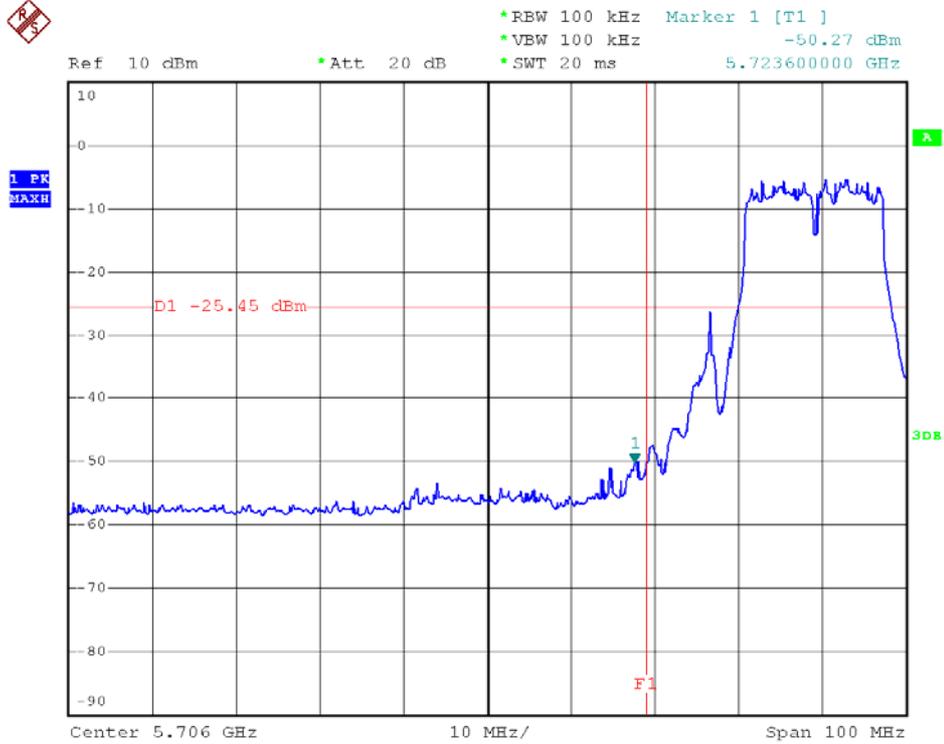


Modulation Standard: 802.11n HT40 (270Mbps), Ant5  
Channel: 09



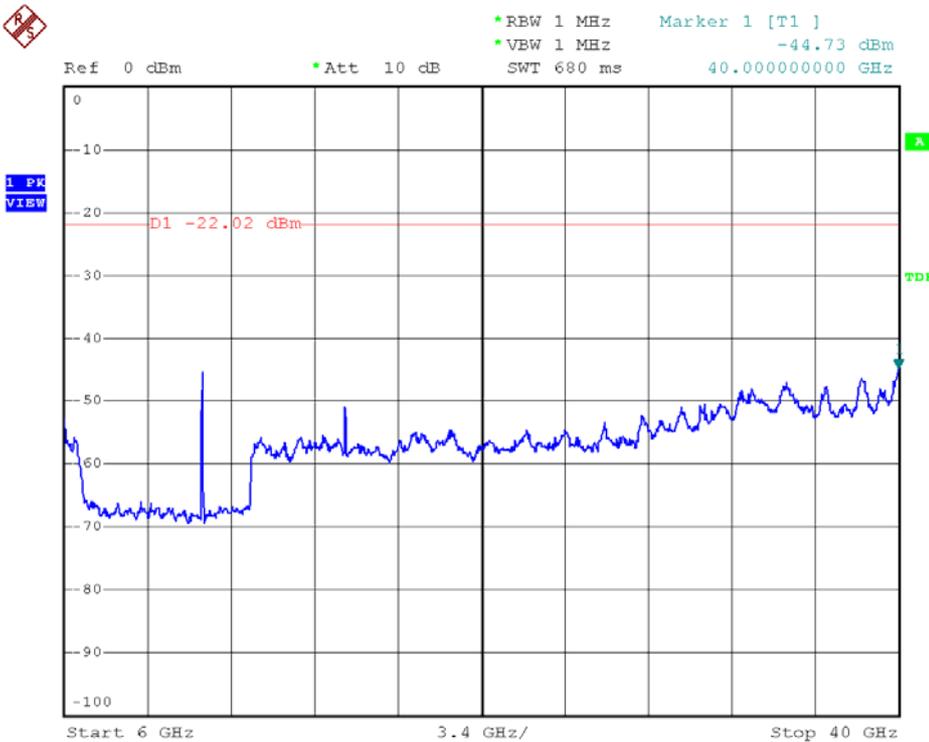
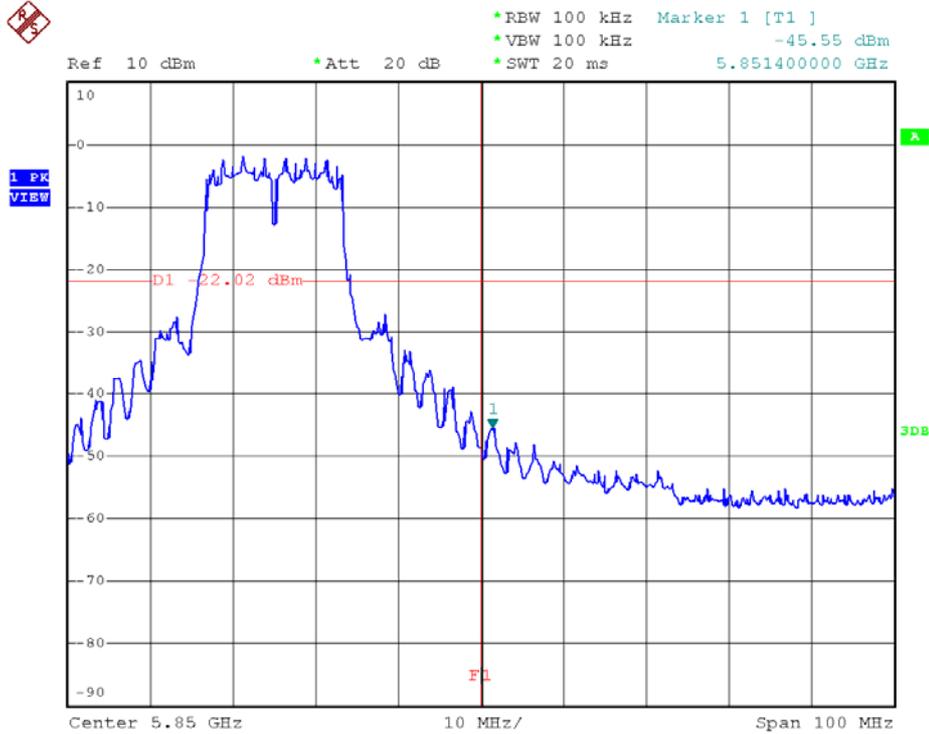


Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 149



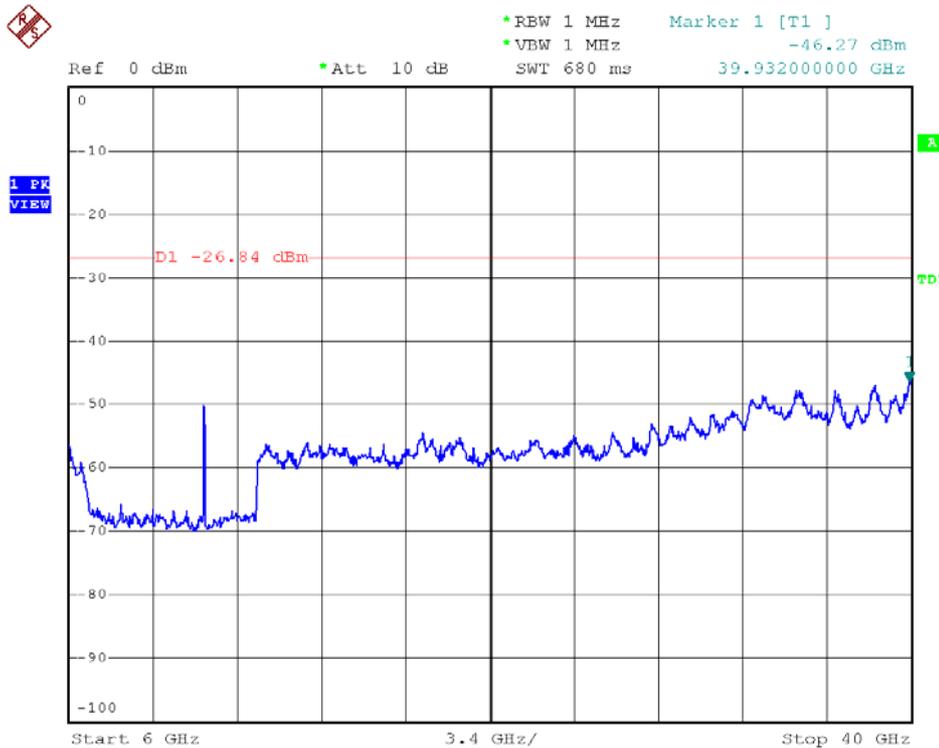
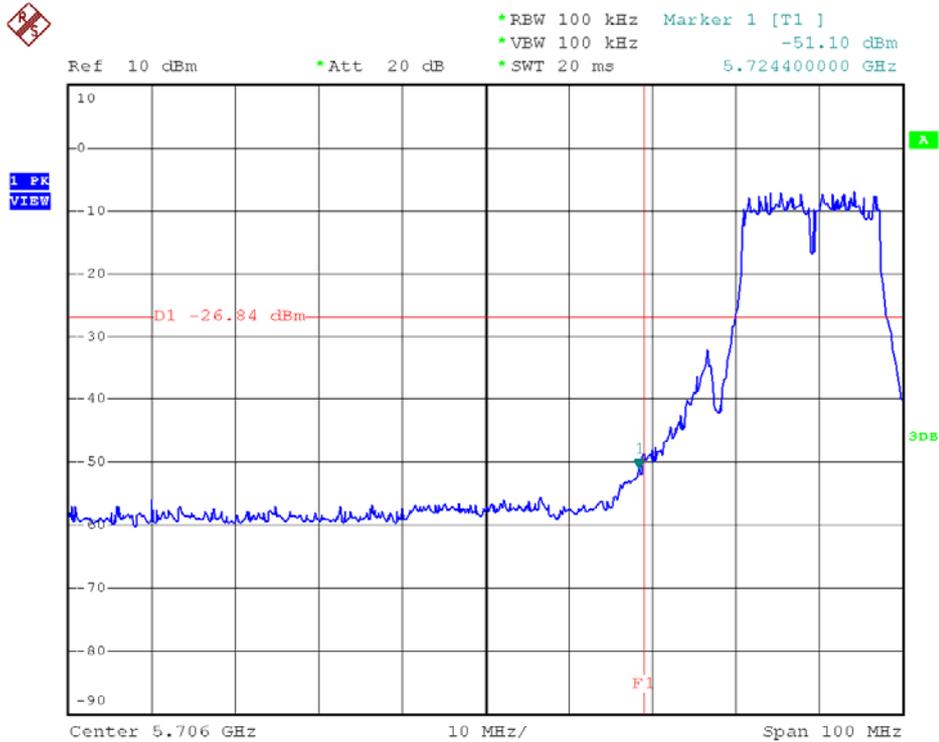


Modulation Standard: 802.11a (54Mbps), Ant3  
Channel: 165



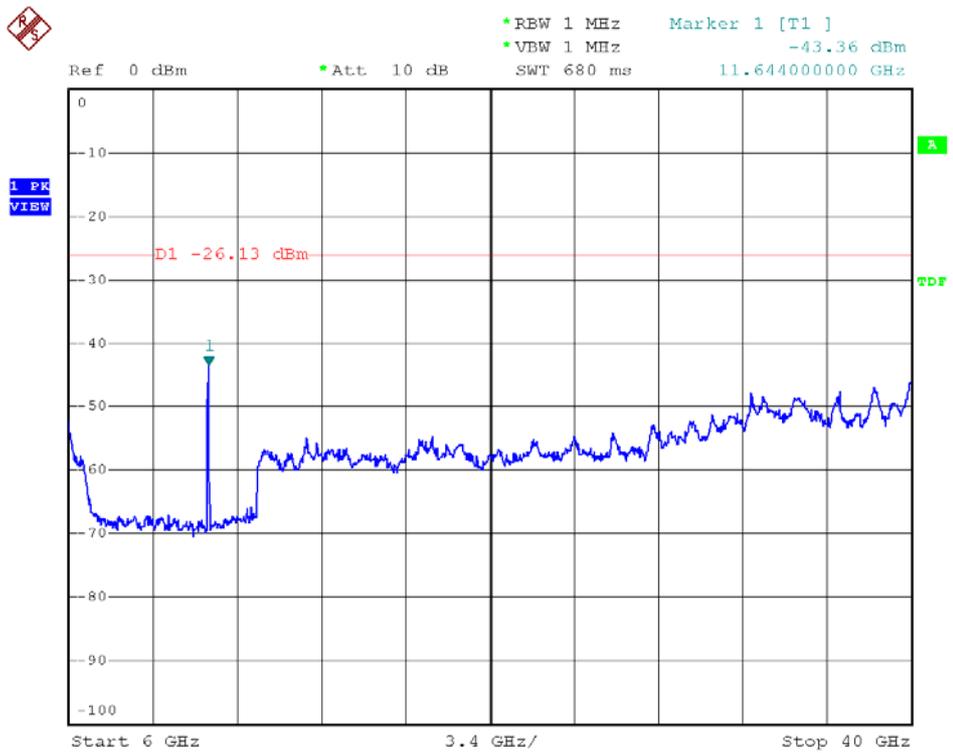
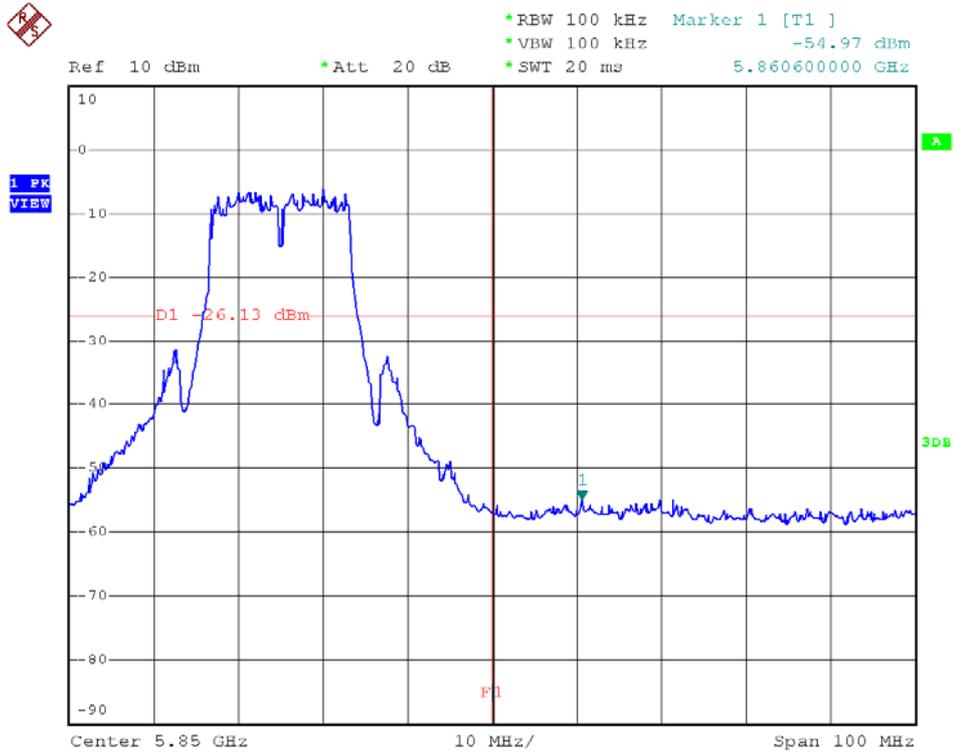


Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 149



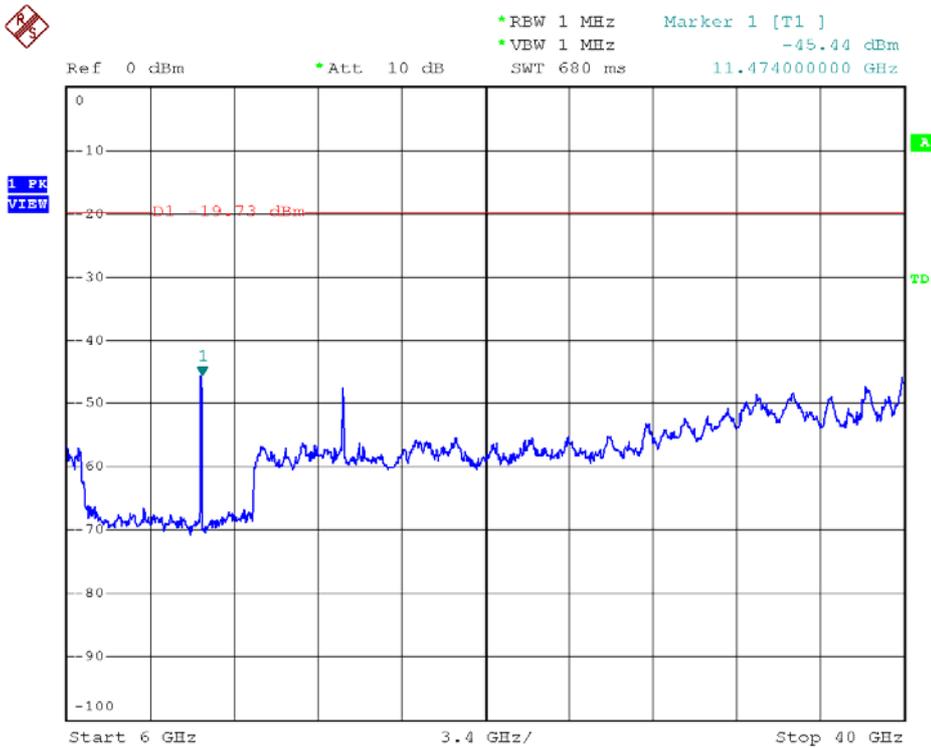
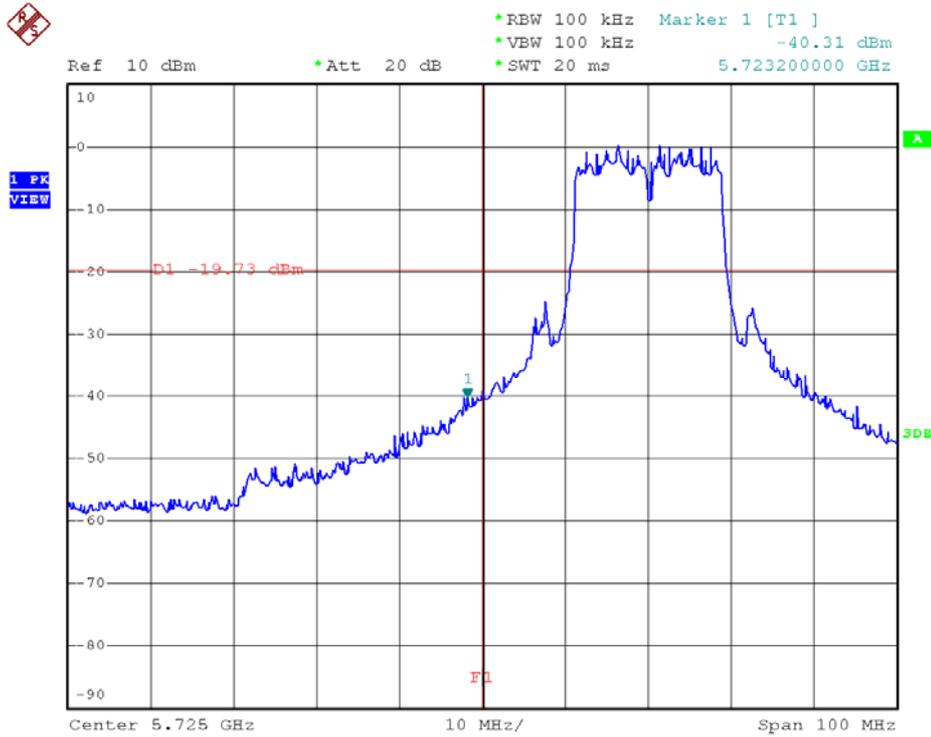


Modulation Standard: 802.11a (54Mbps), Ant5  
Channel: 165





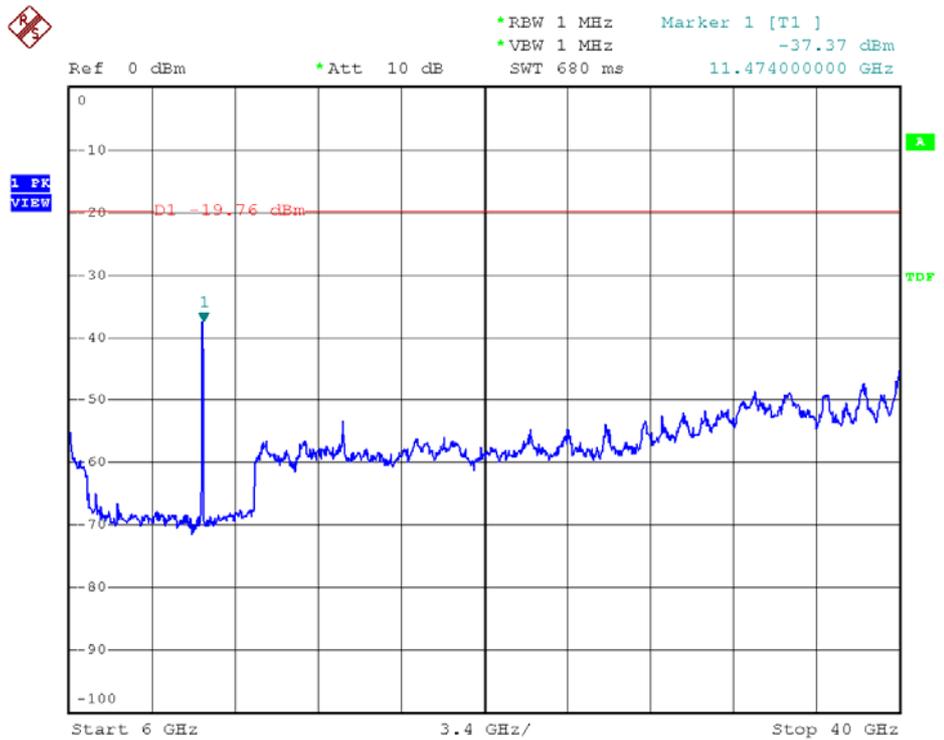
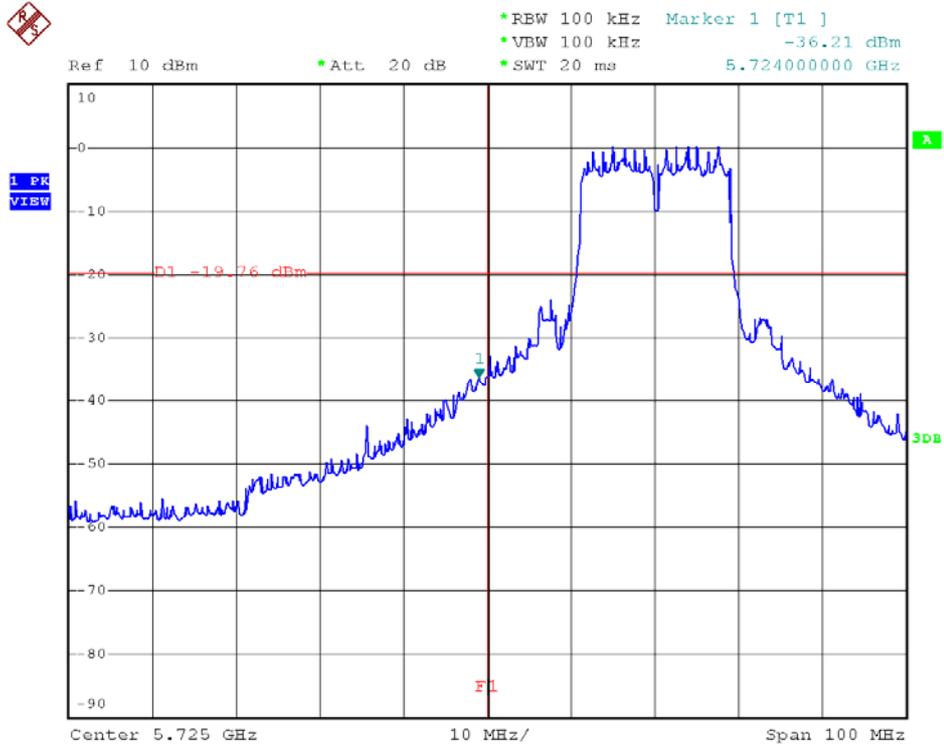
Modulation Standard: 802.11an HT20 (130Mbps), Ant3  
Channel: 149





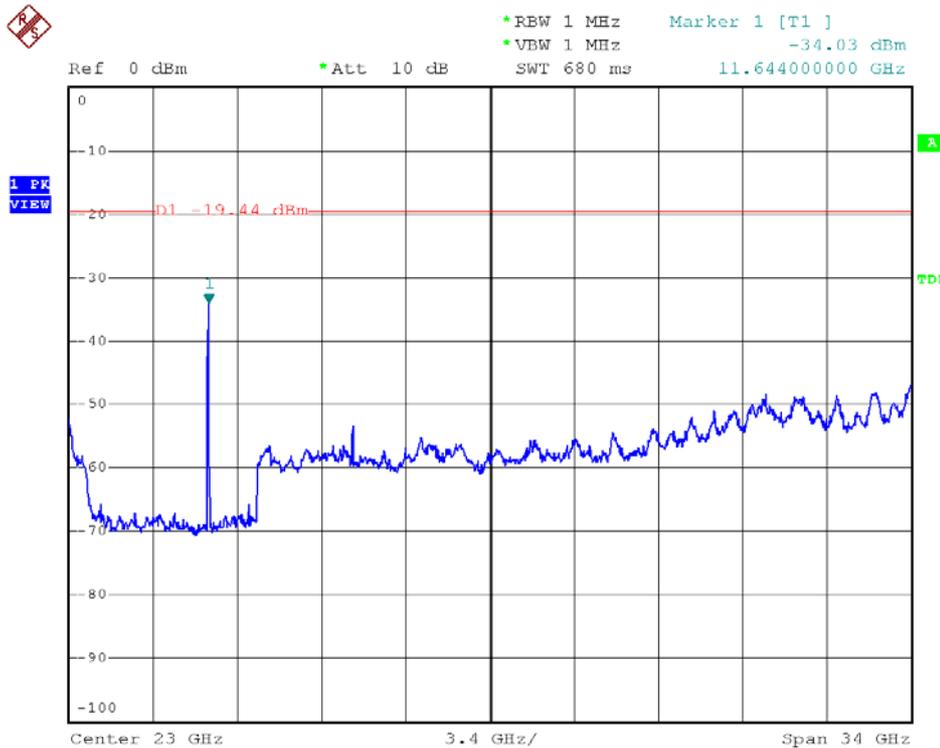
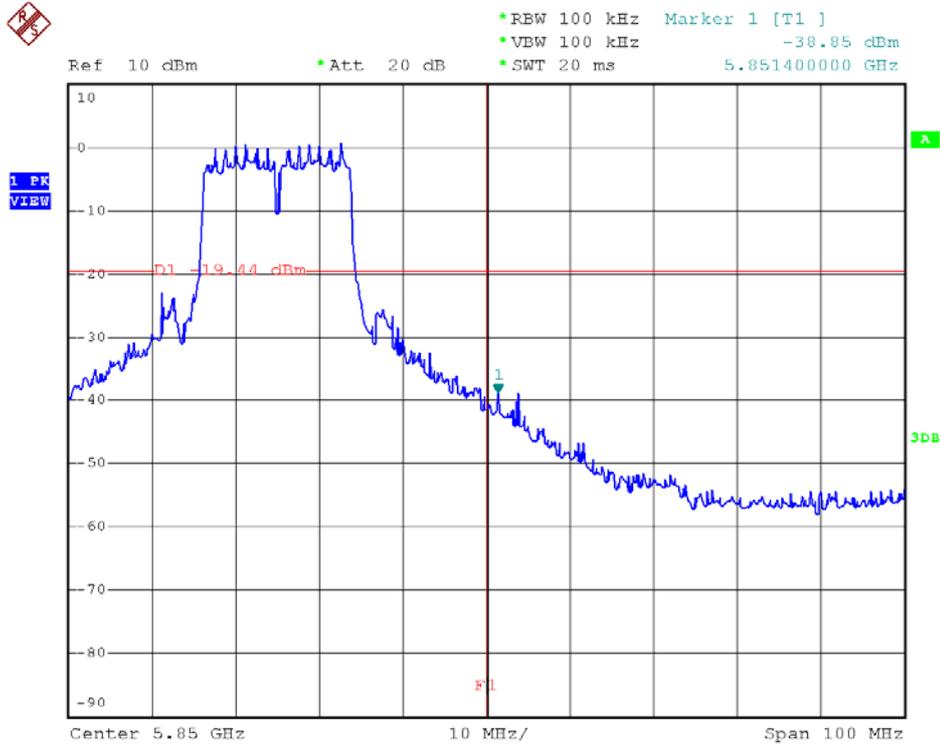


Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 149



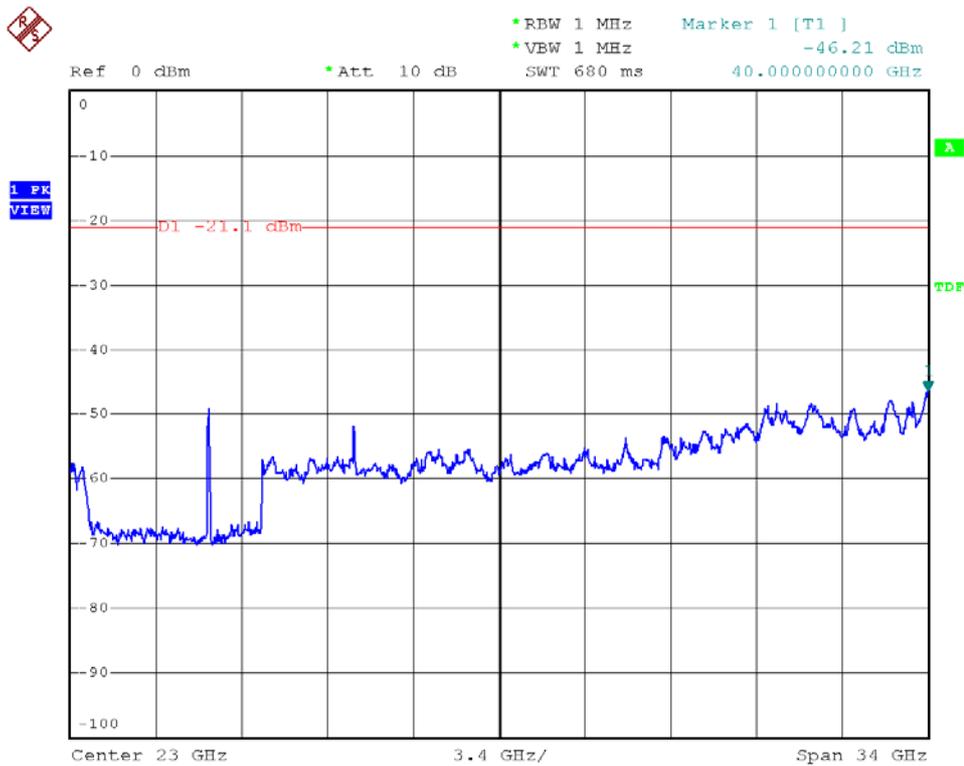
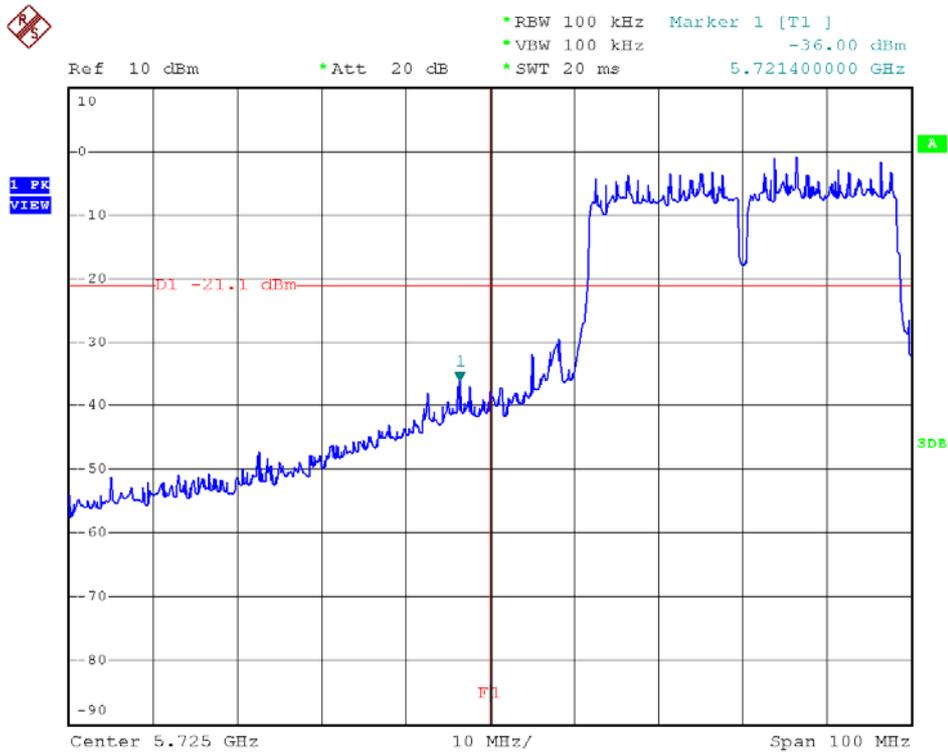


Modulation Standard: 802.11an HT20 (130Mbps), Ant5  
Channel: 165



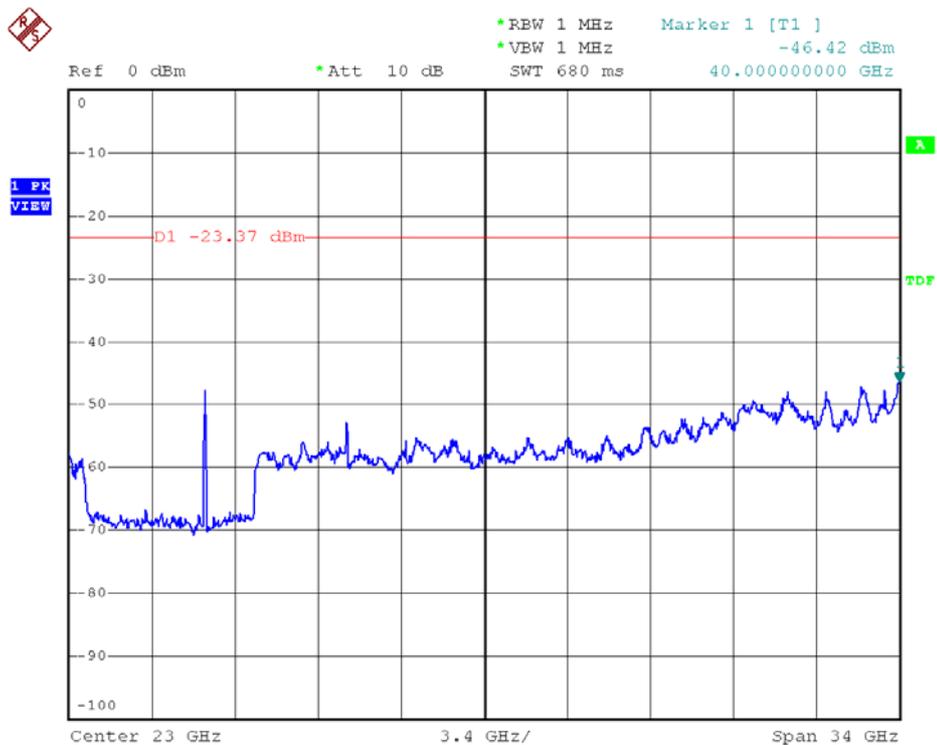
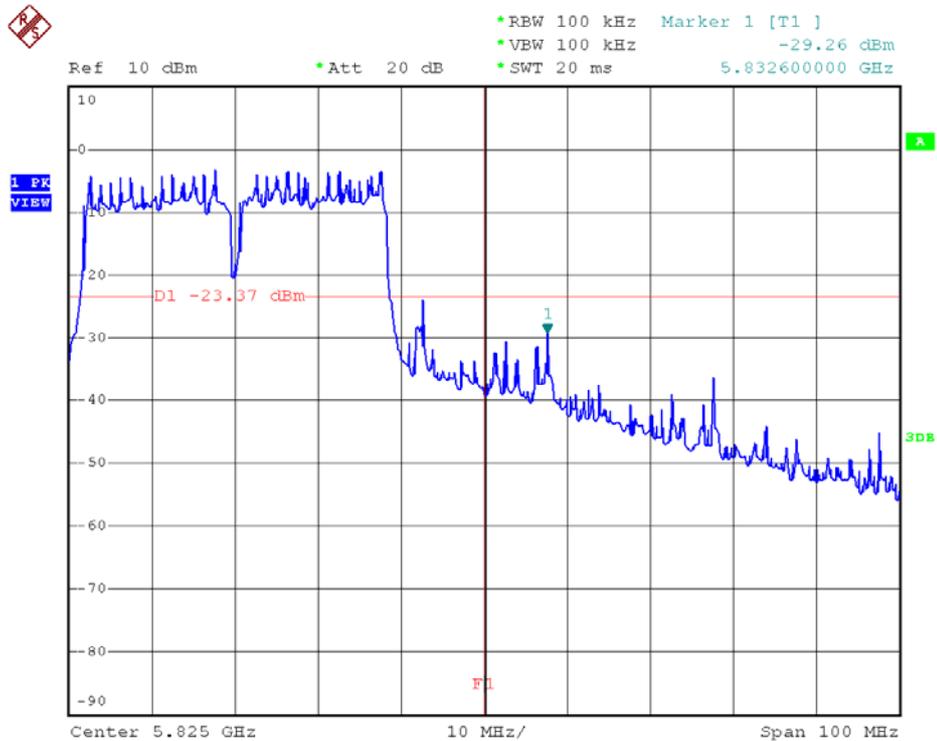


Modulation Standard: 802.11an HT40 (270Mbps), Ant3  
Channel: 151





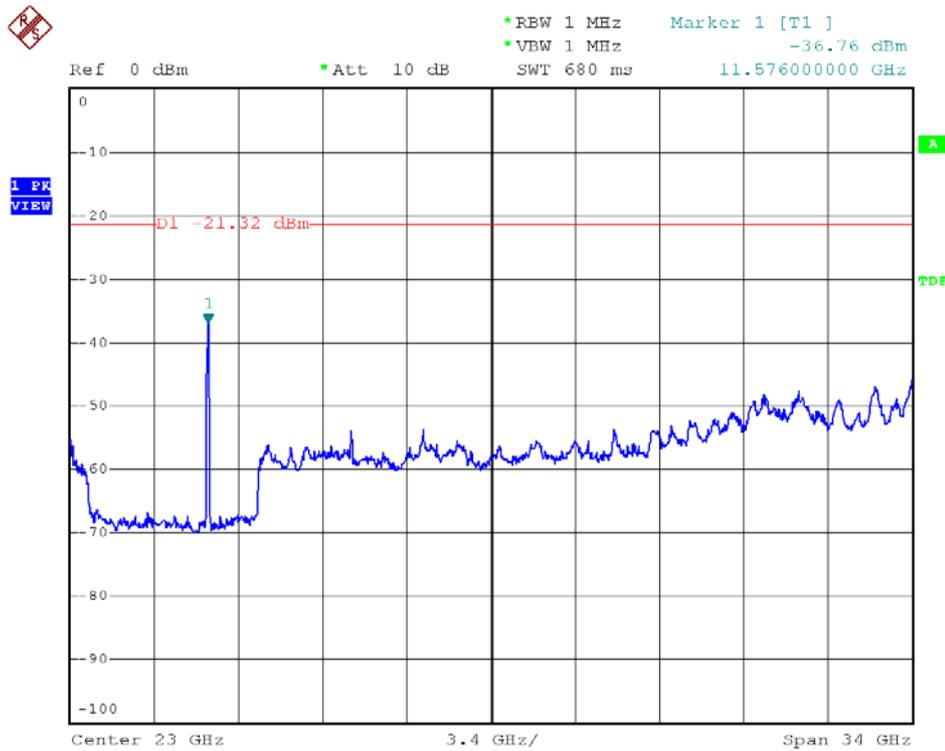
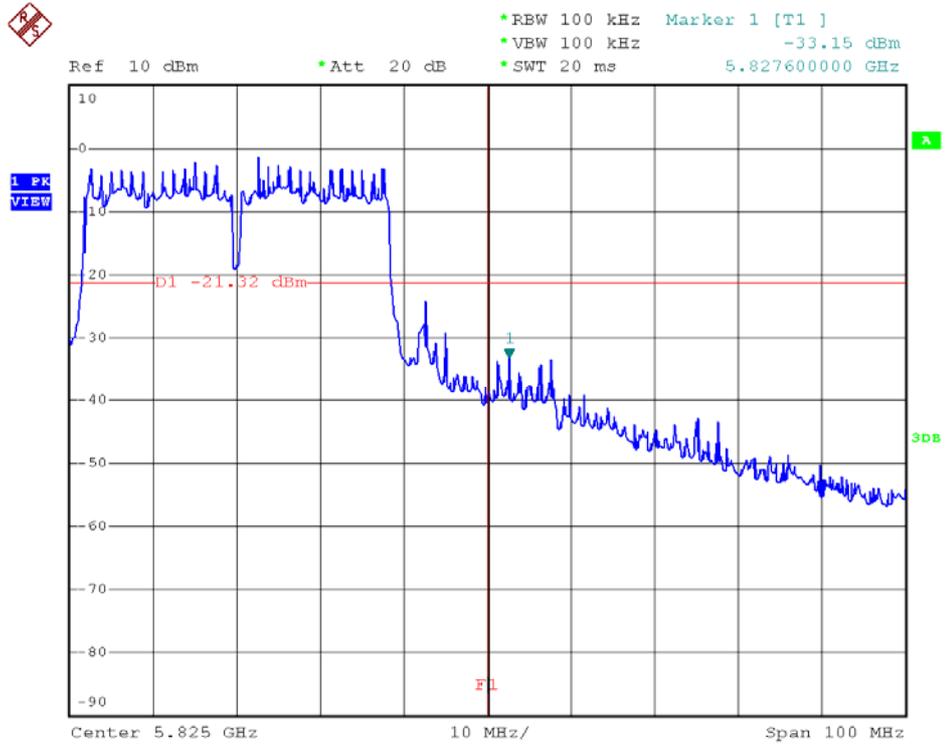
Modulation Standard: 802.11an HT40 (270Mbps), Ant3  
Channel: 159







Modulation Standard: 802.11an HT40 (270Mbps), Ant5  
Channel: 159





## 9.6 Restrict Band Emission Measurement Data

Test Date: Dec. 19, 2008  
Atmospheric pressure: 1005 hPa

Temperature: 22  
Humidity: 70%

Modulation Standard: IEEE 802.11b (11Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2331.11	H	45.94	-2.54	43.40	Peak	74	54	-30.60	204	1.00
2375.18	H	31.20	-2.37	28.83	Ave	74	54	-25.17	204	1.00
2379.56	V	45.83	-2.36	43.47	Peak	74	54	-30.53	189	1.00
2389.87	V	32.08	-2.32	29.77	Ave	74	54	-24.23	189	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2484.57	H	44.94	-1.96	42.98	Peak	74	54	-31.02	180	1.00
2483.51	H	30.95	-1.96	28.99	Ave	74	54	-25.01	180	1.00
2489.78	V	46.49	-1.94	44.55	Peak	74	54	-29.45	206	1.00
2483.66	V	32.60	-1.96	30.64	Ave	74	54	-23.36	206	1.00

Modulation Standard: IEEE 802.11g (54Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2342.13	H	45.89	-2.50	43.39	Peak	74	54	-30.61	181	1.00
2375.48	H	31.43	-2.37	29.06	Ave	74	54	-24.94	181	1.00
2388.95	V	49.94	-2.32	45.61	Peak	74	54	-28.39	202	1.00
2389.87	V	31.55	-2.32	29.23	Ave	74	54	-24.77	202	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2497.68	H	45.25	-1.91	43.34	Peak	74	54	-30.66	180	1.00
2483.55	H	30.97	-1.91	29.01	Ave	74	54	-24.99	180	1.00
2483.66	V	47.97	-1.96	46.01	Peak	74	54	-27.99	203	1.00
2483.51	V	31.65	-1.96	29.68	Ave	74	54	-24.32	203	1.00



Modulation Standard: IEEE 802.11n HT20 (130Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2389.36	H	50.07	-2.32	47.75	Peak	74	54	-26.25	196	1.00
2389.46	H	31.19	-2.32	28.87	Ave	74	54	-25.13	196	1.00
2388.95	V	49.65	-2.32	47.33	Peak	74	54	-26.67	185	1.14
2372.73	V	31.30	-2.38	28.91	Ave	74	54	-25.09	185	1.14
Channel 11						Fundamental Frequency: 2462 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2483.85	H	53.99	-1.96	52.03	Peak	74	54	-21.97	173	1.00
2483.51	H	31.29	-1.96	29.33	Ave	74	54	-24.67	173	1.00
2484.15	V	54.89	-1.96	52.93	Peak	74	54	-21.07	174	1.00
2483.70	V	31.52	-1.96	29.56	Ave	74	54	-24.44	174	1.00

Modulation Standard: IEEE 802.11n HT40 (270Mbps)

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2384.97	H	55.24	-2.34	52.90	Peak	74	54	-21.10	192	1.00
2384.56	H	31.78	-2.34	29.44	Ave	74	54	-24.56	192	1.00
2389.87	V	55.70	-2.32	53.38	Peak	74	54	-20.62	195	1.00
2385.79	V	31.78	-2.33	29.45	Ave	74	54	-24.55	195	1.00
Channel 9						Fundamental Frequency: 2452 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2492.06	H	57.16	-1.93	55.23	Peak	74	54	-18.77	176	1.00
2483.51	H	31.83	-1.96	29.87	Ave	74	54	-24.13	176	1.00
2483.70	V	72.43	-1.96	70.47	Peak	74	54	-3.53	176	1.00
2484.15	V	37.23	-1.96	35.27	Ave	74	54	-18.73	176	1.00

## Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10 MHz for Average detection at frequency above 1GHz.



### 10. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

#### 10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:  
 This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.