

FCC TEST REPORT
for
ILIFE TECHNOLOGY(HK) LIMITED

TABLET PC
Model No.: D707, D706, D977, D976

Prepared for : ILIFE TECHNOLOGY(HK) LIMITED
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TEST REPORT

Applicant : ILIFE TECHNOLOGY(HK) LIMITED
Manufacturer : ILIFE TECHNOLOGY(HK) LIMITED
EUT : TABLET PC
Model No. : D707, D706, D977, D976
Serial No. : N/A
Rating : DC 5V, 1.5A
Trade Mark : N/A

Measurement Procedure Used:
FCC Part15 Subpart C, Paragraph 15.247: 2010

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test : Jun. 18~20, 2012

Prepared by :



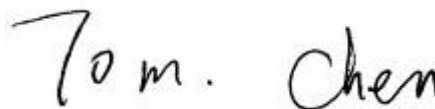
(Engineer / Andy Chen)

Reviewer :



(Project Manager / Jerry Du)

Approved & Authorized Signer :



(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: TABLET PC
Model Number	: D707, D706, D977, D976 Note : There is no difference in the PCB of the four models, They only have difference in the outlook and the size, so we prepare “D707” for the test only.
Test Power Supply	: DC 5V
RF Transmission Frequency	: 2412MHz~2462MHz (802.11b/802.11g/802.11n (HT20)) 2422MHz~2452MHz (802.11n (HT40))
Channels	: 11 For (802.11b/802.11g/802.11n (HT20)) 7 For (802.11n (HT40))
Antenna Type	: Integral
Antenna Gain	: 0 dBi
Applicant Address	: ILIFE TECHNOLOGY(HK) LIMITED 3rd Floor, Bld. 3, Lijincheng Industrial Park, The East of Gongye Road, Longhua, Shenzhen, China
Manufacturer Address	: ILIFE TECHNOLOGY(HK) LIMITED 3rd Floor, Bld. 3, Lijincheng Industrial Park, The East of Gongye Road, Longhua, Shenzhen, China
Date of receiver	: Jun. 18, 2012
Date of Test	: Jun. 18~20, 2012

1.2.Auxiliary Equipment Used during Test

PC	: Manufacturer: DELL M/N: OPTIPLEX 380 S/N: 1J63X2X CE , FCC: DOC
MONITOR	: Manufacturer: DELL M/N: E170Sc S/N: CN-00V539-64180-055-0UPS CE , FCC: DOC
KEYBOARD	: Manufacturer: DELL M/N: SK-8115 S/N: CN-0DJ313-71616-06C-02XN CE , FCC: DOC Cable: 1m, unshielded
MOUSE	: Manufacturer: DELL M/N: M-UARDEL7 S/N: N/A CE , FCC: DOC Cable: 1m, unshielded
Printer	: Manufacturer: Brother M/N: MFC-3360C S/N: N/A CE, FCC: DOC
Power Line	: Non-Shielded, 1.5m
VGA Cable	: Non-Shielded, 1.5m
Network Cable	: Non-Shielded, 1.5m

1.3. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, August 20, 2010.

IC-Registration No.: 8058A-1

Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, August 30, 2010.

Test Location

All Emissions tests were performed at
Anbotek Compliance Laboratory Limited. at 1/F, 1 /Building, SEC Industrial Park,
No.4 Qianhai Road, Nanshan District, Shenzhen, 518054, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

2. MEASURING DEVICE AND TEST EQUIPMENT

The following test equipments were used during test:

Equipment	Manufacturer	Model #	Serial #	Data of Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Apr. 25, 2012	1 Year
Two-Line V-network	Rohde & Schwarz	ENV216	10055	Apr. 25, 2012	1 Year
Absorbing Clamp	FCC	F-102-23MM	08166	Apr. 12, 2012	1 Year
RF Switching Unit	Compliance Direction	RSU-M2	38303	Dec 25, 2011	1 Year
Triple-Loop Antenna(2M)	EVERFINE	LLA-2	905003	Apr. 12, 2012	1 Year
Bilog Broadband Antenna	Schwarzbeck	VULB9163	100015	Apr. 25, 2012	1 Year
Pre-amplifier	Compliance Direction	PAEFV03	22008	Apr. 25, 2012	1 Year
Programmable AC Power source	SOPH POWER	PAG-1050	630250	Apr. 12, 2012	1 Year
Harmonic and Flicker Analyzer	LAPLACE	AC2000A	272629	Apr. 25, 2012	1 Year
ESD Simulators	KIKUSUI	KES4021	LJ003477	Apr. 25, 2012	1 Year
Power Frequency Magnetic Field Generator	EVERFINE	EMS61000-8K	906002	Apr. 25, 2012	1 Year
EFT Burst Simulator	PRIMA	EFT61004B	PR10114282	May 25, 2012	1 Year
CYCLE SAG Simulator	PRIMA	DRP61011A	PR10106201	May 09, 2012	1 Year
6kV Surge Generator	EMPEK	LSG-5060G	06010017N	Apr. 25, 2012	1 Year
DIPS Simulators	EMPEK	VDS-1105G	11510006N	Apr. 25, 2012	1 Year
EFT Generator	EMPEK	EFT-4040B	0430928N	Apr. 25, 2012	1 Year
EFT/SURGE/DIPS Simulators	SCHAFFNER	BEST E.M.C. V2.3	200030 -002SC	Dec. 25, 2011	1 Year
EMI Test Software	ES-K1	N/A	N/A	N/A	N/A
EMI Test Software	SHURPLE	N/A	N/A	N/A	N/A
Harmonic and Flicker Test Software	LAPLACE	N/A	N/A	N/A	N/A

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2009 and FCC Part 15, Paragraph 15.247

3.1. Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107, 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15, Paragraph 15.247(b)(1)	Peak Output Power	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(2)	6dB Bandwidth	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	100kHz Bandwidth of Frequency Band Edges	PASS	Complies
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(1)	Frequency Separation	-	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Number of Hopping Frequency	-	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Time of Occupancy	-	N/A
FCC Part 15, Paragraph 15.247(c)	Peak Power Density	PASS	Complies

* The digital circuit porting of the EUT has been tested and verified to comply with FCC Part 15, Subpart B., Class B Digital Devices and the associated Radio Receiver has also been tested and found to comply with FCC Part 15, Subpart B – Radio Receivers.

3.2. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1Mbps data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6Mbps data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT20: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6.5Mbps data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT40: Channel 1(2422MHz), Channel 6(2437MHz) and Channel 11(2452MHz) with 13Mbps data rate (the worst case) are chosen for the final testing.

3.3. List of channels:

✓ - available

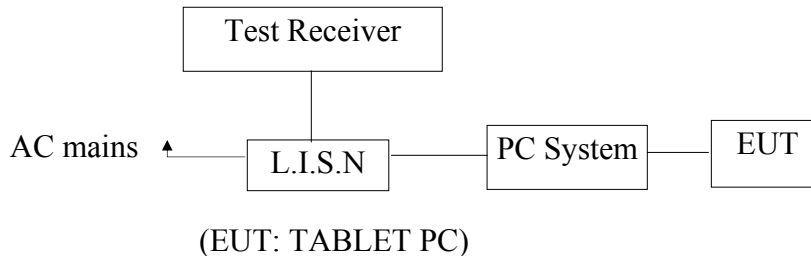
X - tested

Number	Frequency(MHz)		802.11 b/g/n (HT20)	802.11 b/g/n (HT20)
1	2412	✓	X	
2	2417	✓		
3	2422	✓		X
4	2427	✓		
5	2432	✓		
6	2437	✓	X	X
7	2442	✓		
8	2447	✓		
9	2452	✓		X
10	2457	✓		
11	2462	✓	X	

4. Conducted Emission Test

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



4.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT : TABLET PC
Model Number : D707
Applicant : ILIFE TECHNOLOGY(HK) LIMITED

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode (ON) and measure it.

4.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 4.6.

4.6. Power Line Conducted Emission Measurement Results

PASS.

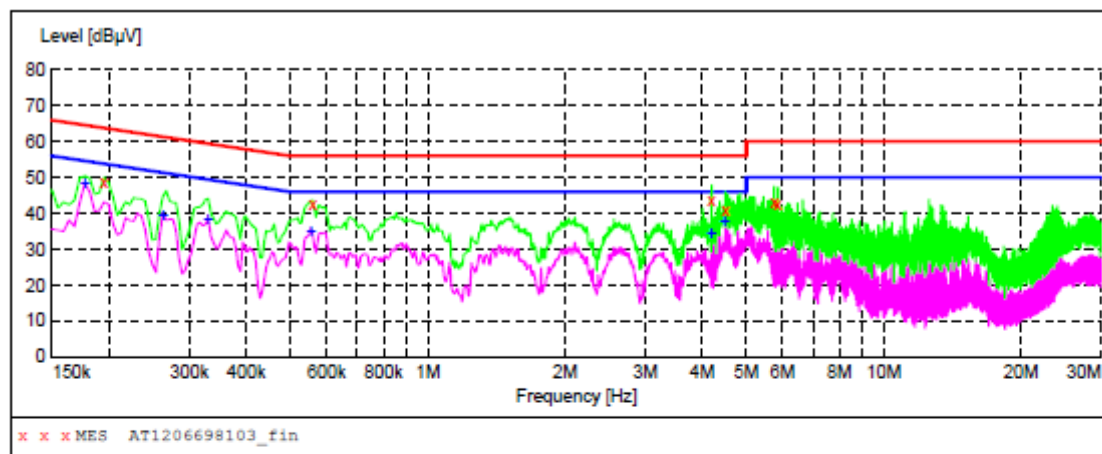
The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.

CONDUCTED EMISSION TEST DATA

EUT: TABLET PC M/N: D707
 Operating Condition: On
 Test Site: 1# Shielded Room
 Operator: Andy Chen
 Test Specification: AC 120V/60Hz for USB
 Comment: Live Line
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"
 Short Description: 150K~30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1206698103_fin"**

6/19/2012 4:27PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	48.60	10.1	64	15.2	QP	L1	GND
0.559500	42.70	10.1	56	13.3	QP	L1	GND
4.195000	43.80	10.5	56	12.2	QP	L1	GND
4.496500	41.10	10.5	56	14.9	QP	L1	GND
5.752000	43.00	10.5	60	17.0	QP	L1	GND
5.869000	42.70	10.5	60	17.3	QP	L1	GND

MEASUREMENT RESULT: "AT1206698103_fin2"

6/19/2012 4:27PM

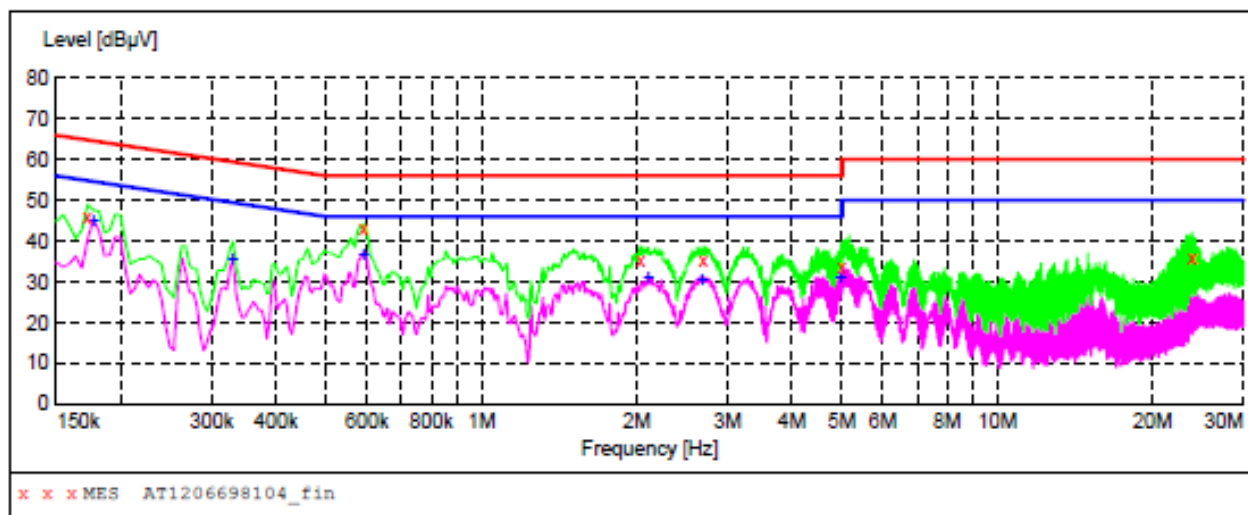
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.177000	48.70	10.1	55	5.9	AV	L1	GND
0.262500	39.70	10.1	51	11.7	AV	L1	GND
0.330000	38.80	10.1	50	10.7	AV	L1	GND
0.555000	35.60	10.1	46	10.4	AV	L1	GND
4.195000	34.80	10.5	46	11.2	AV	L1	GND
4.492000	38.00	10.5	46	8.0	AV	L1	GND

CONDUCTED EMISSION TEST DATA

EUT: TABLET PC M/N: D707
 Operating Condition: On
 Test Site: 1# Shielded Room
 Operator: Andy Chen
 Test Specification: AC 120V/60Hz for USB
 Comment: Neutral Line
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1206698104_fin"**

6/19/2012 4:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.172500	45.80	10.1	65	19.0	QP	N	GND
0.591000	43.00	10.1	56	13.0	QP	N	GND
2.035000	35.30	10.3	56	20.7	QP	N	GND
2.696500	35.40	10.4	56	20.6	QP	N	GND
4.991500	33.70	10.5	56	22.3	QP	N	GND
23.860000	35.70	10.8	60	24.3	QP	N	GND

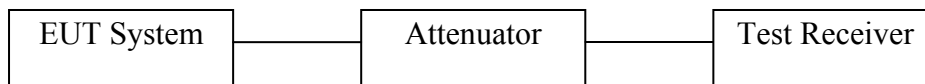
MEASUREMENT RESULT: "AT1206698104_fin2"

6/19/2012 4:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.177000	45.50	10.1	55	9.1	AV	N	GND
0.330000	35.70	10.1	50	13.8	AV	N	GND
0.591000	37.20	10.1	46	8.8	AV	N	GND
2.102500	31.50	10.3	46	14.5	AV	N	GND
2.674000	31.10	10.4	46	14.9	AV	N	GND
4.973500	31.20	10.5	46	14.8	AV	N	GND

5. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

5.1 Test Setup



5.2 6dB Bandwidth

a. Limit

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

b. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 200kHz(802.11b/802.11g/802.11n(HT20)), RBW=400kHz, VBW = 3*RBW, Span = 50MHz, Sweep = auto.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

c. Test Setup

See 5.1

d. Test Results

Pass

e. Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	10.10		Pass
Mid	2437	10.00	>500	Pass
High	2462	10.00		Pass

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	16.50		Pass
Mid	2437	17.80	>500	Pass
High	2462	16.60		Pass

Test mode: IEEE 802.11n (HT20)

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	16.60		Pass
Mid	2437	17.80	>500	Pass
High	2462	17.80		Pass

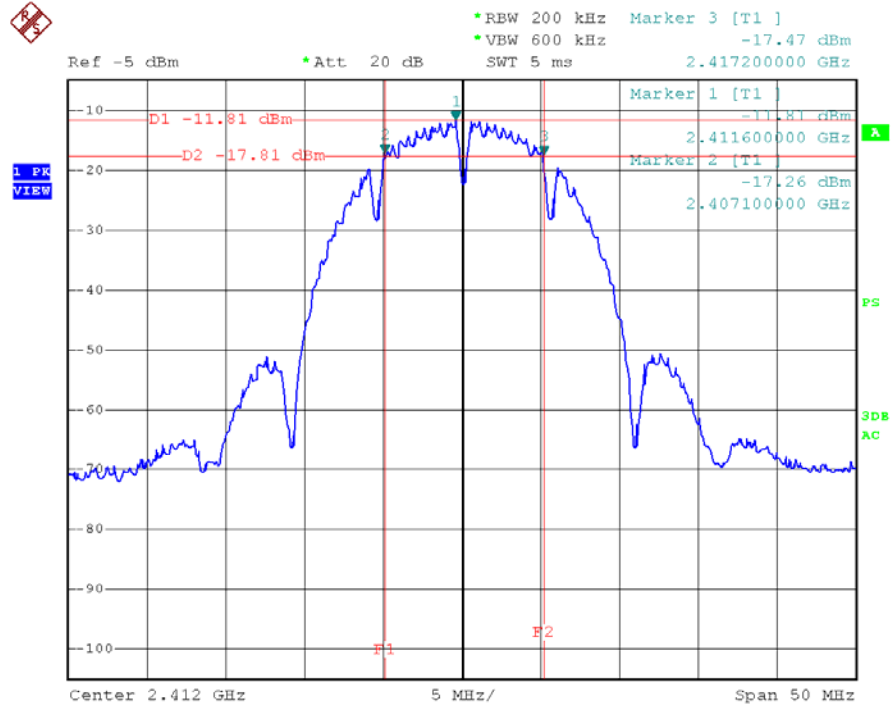
Test mode: IEEE 802.11n (HT40)

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2422	40.40		Pass
Mid	2437	46.40	>500	Pass
High	2452	42.40		Pass

Test Plots

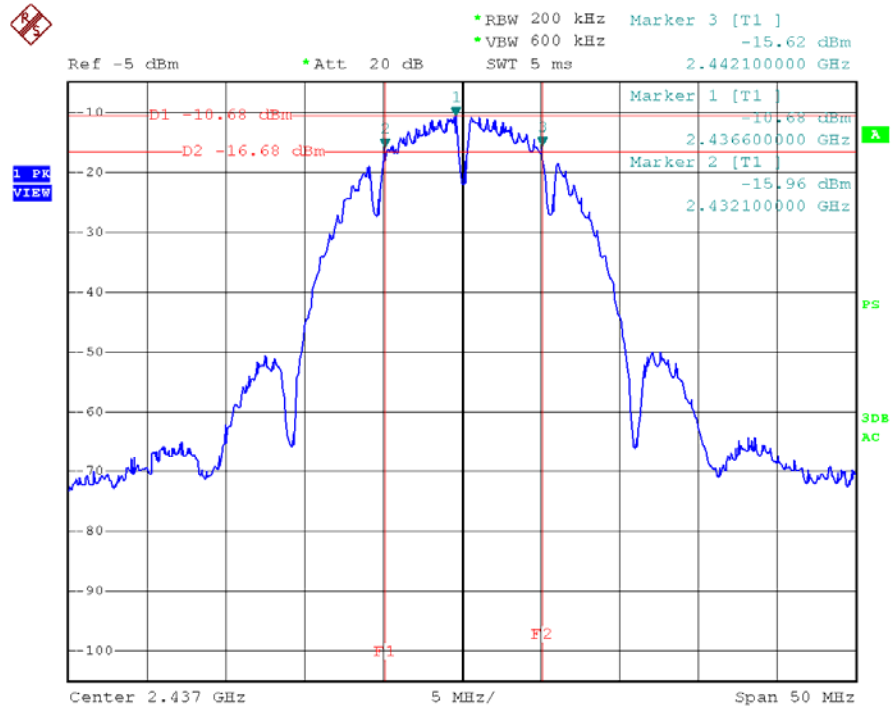
See the following page.

Test Mode: 802.11b---Low



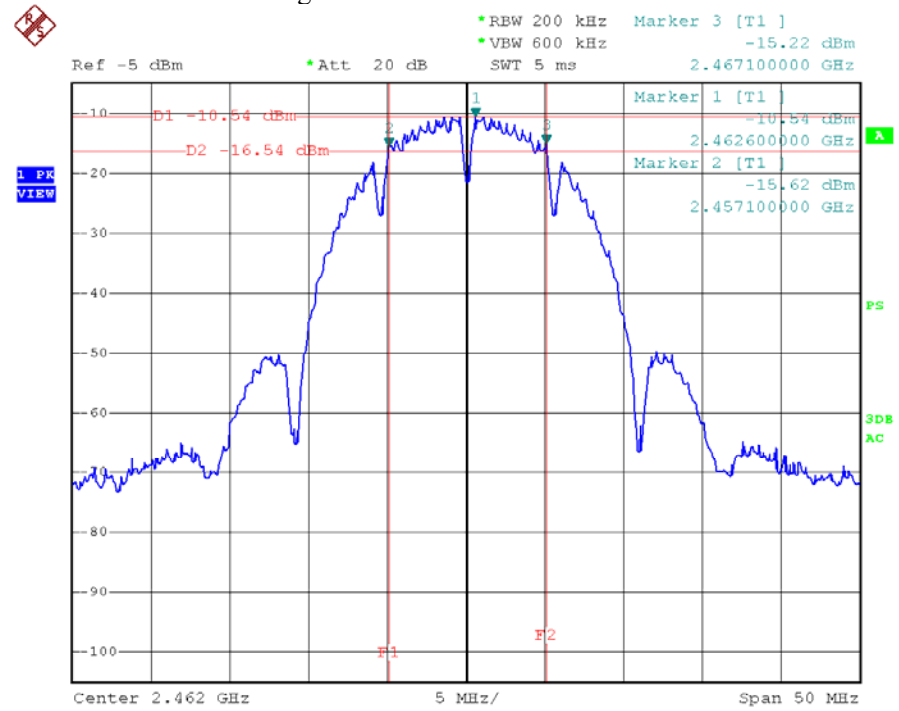
6dB-2412

Test Mode: 802.11b---Mid



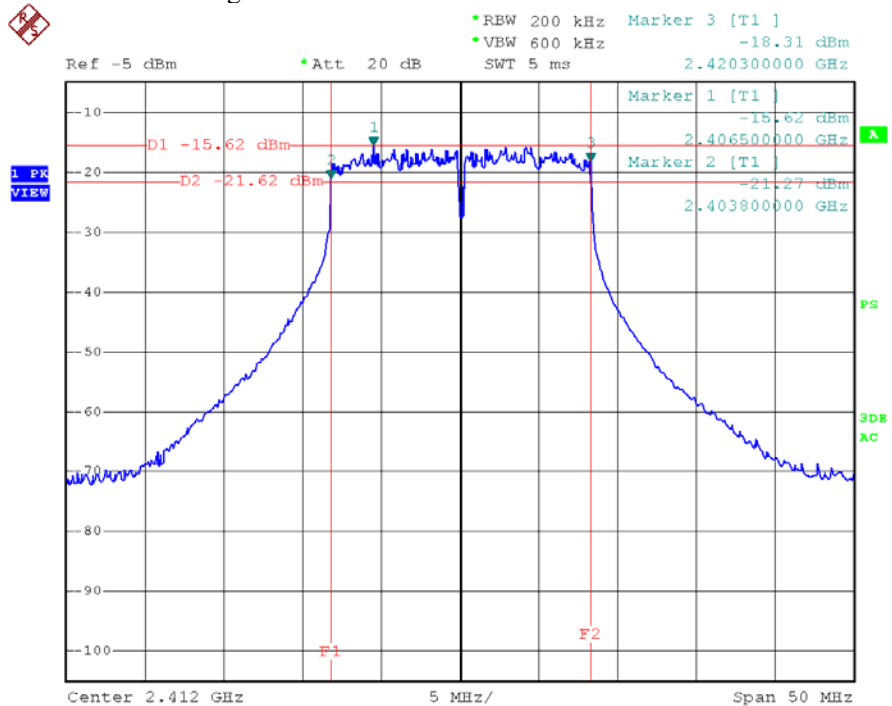
6dB-2437

Test Mode: 802.11b---High



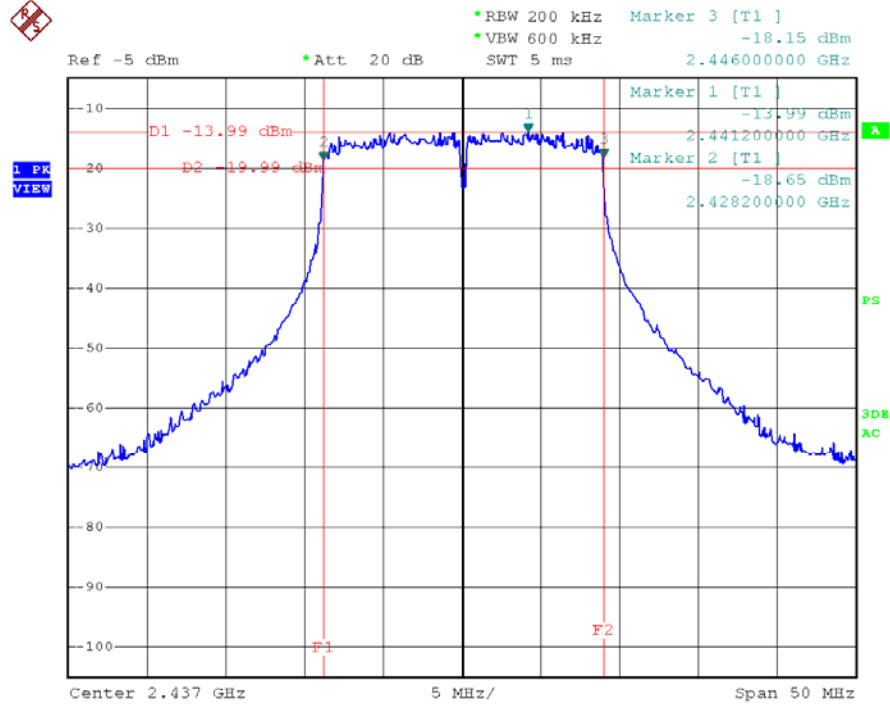
6dB-2462

Test Mode: 802.11g---Low



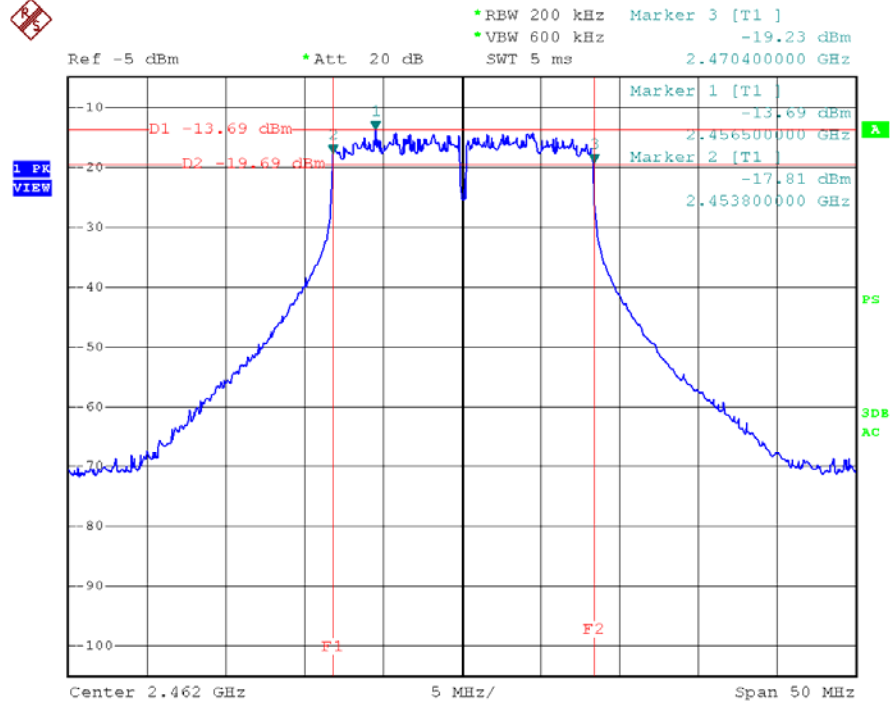
6dB-2412

Test Mode: 802.11g---Mid



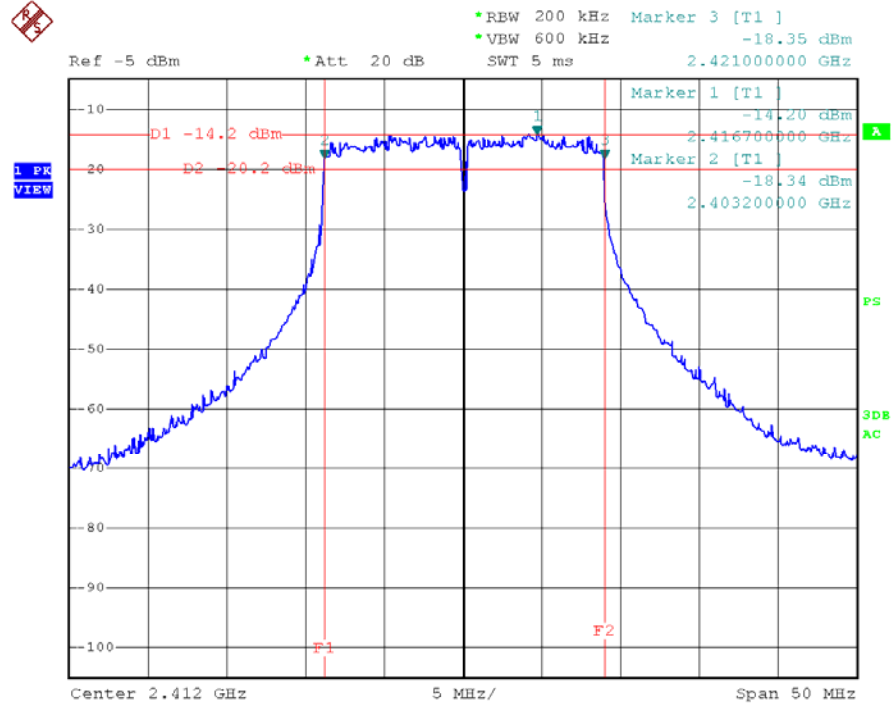
6dB-2437

Test Mode: 802.11g---High



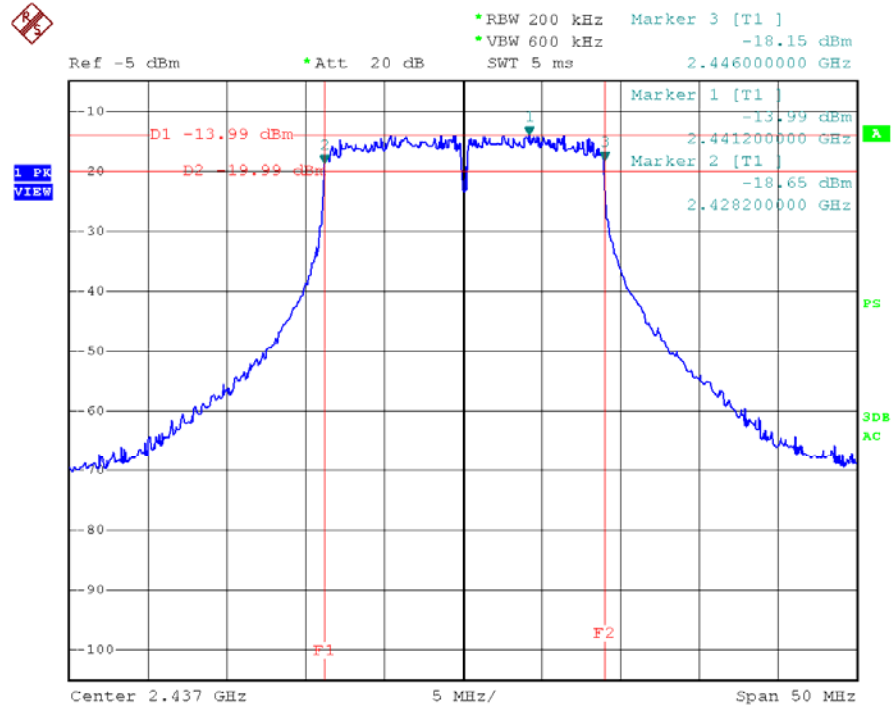
6dB-2462

Test Mode: 802.11n (HT20) ---Low



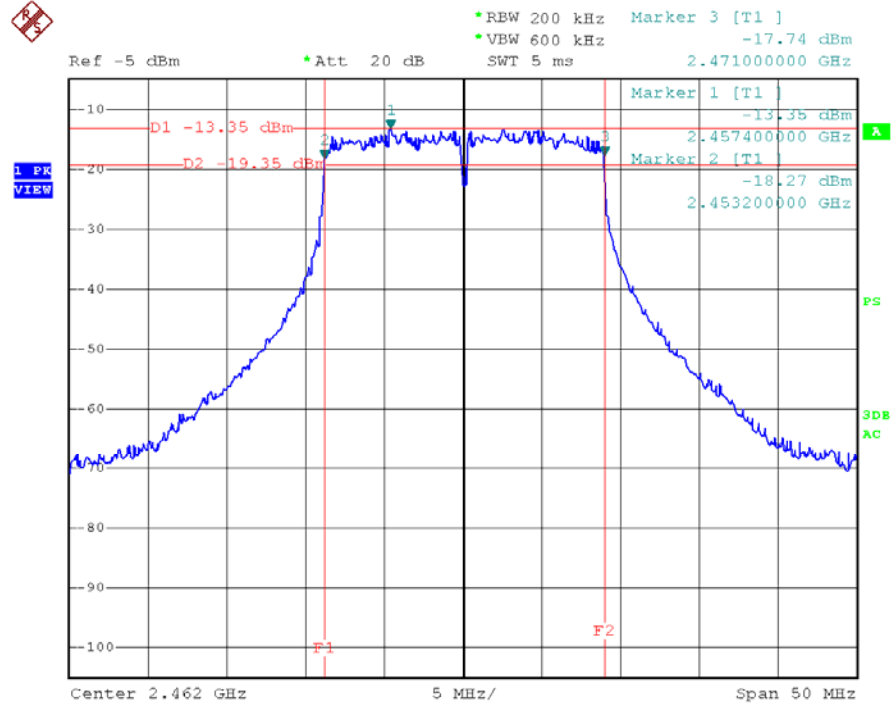
6dB-2412

Test Mode: 802.11n (HT20) ---Mid



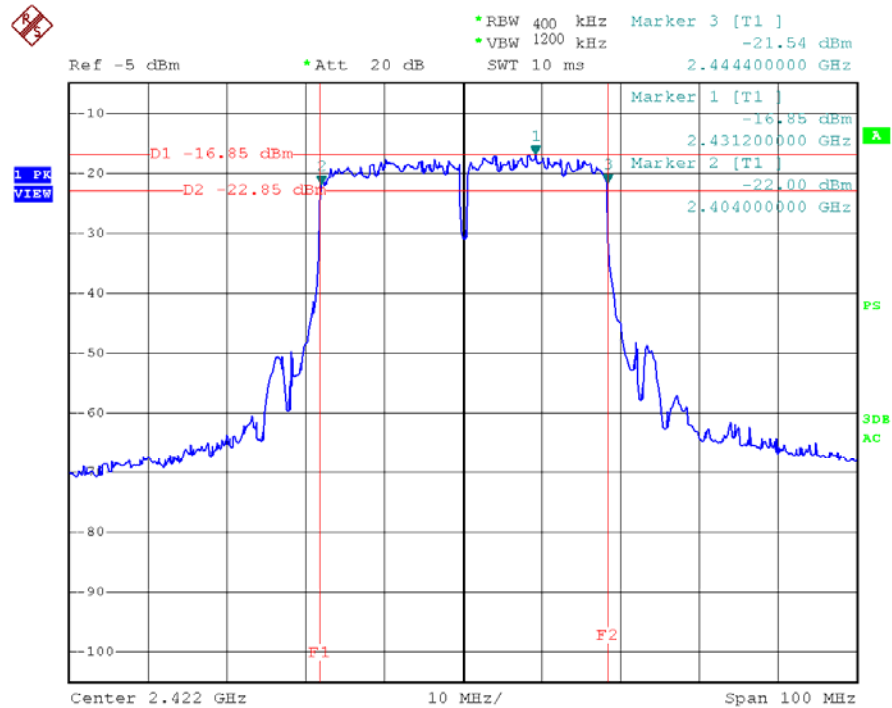
6dB-2437

Test Mode: 802.11n (HT20) ---High



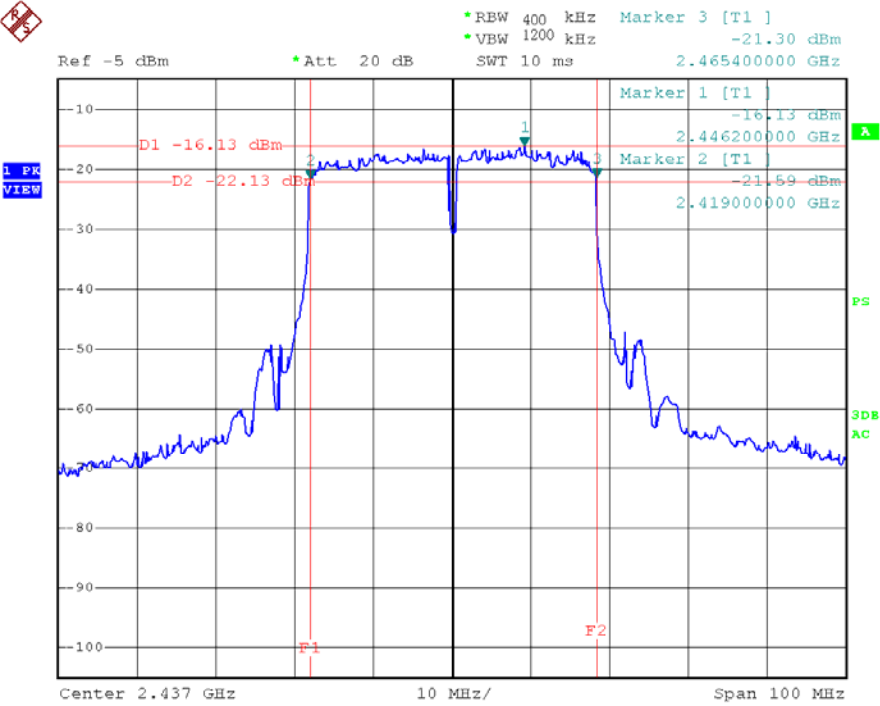
6dB-2462

Test Mode: 802.11n (HT40) ---Low



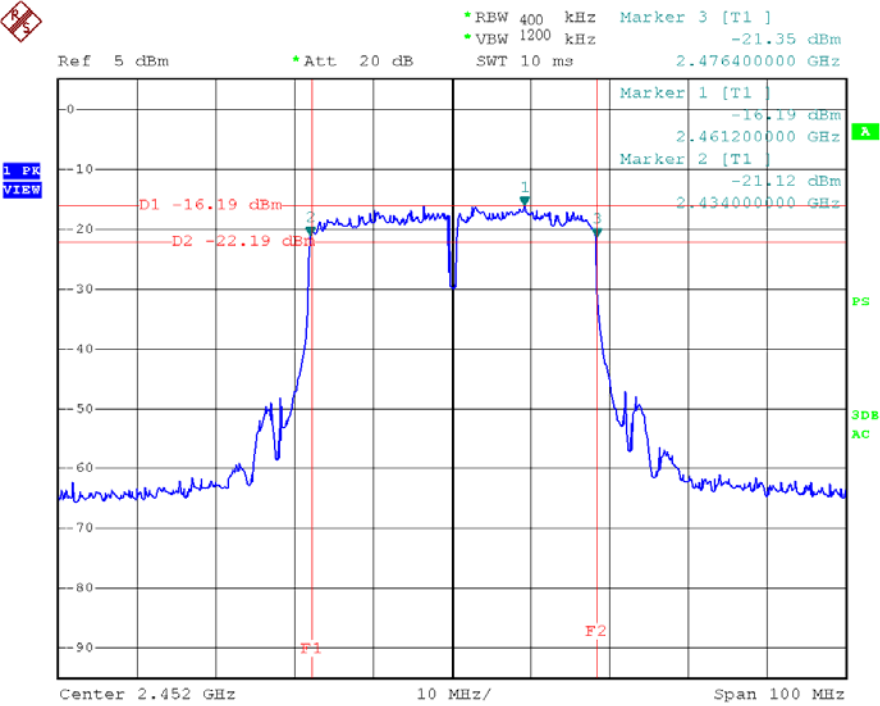
6dB-2422

Test Mode: 802.11n (HT40) ---Mid



6dB-2437

Test Mode: 802.11n (HT40) ---High



6dB-2452

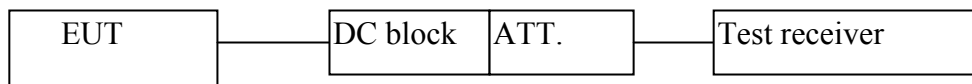
5.3 Maximum Peak output power test

a. Limit

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt (30dBm).
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antenna of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. Configuration of Measurement



c. Data Rates

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1Mbps data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6Mbps data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT20: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6.5Mbps data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT40: Channel 1(2422MHz), Channel 6(2437MHz) and Channel 11(2452MHz) with 13Mbps data rate (the worst case) are chosen for the final testing.

d. Test Procedure

This test was according the kdb 58074 5.2.1.2 Measurement Procedure PK2:

1. This procedure provides an integrated measurement alternative when the maximum available RBW < EBW.
2. Set the RBW = 1 MHz.
3. Set the VBW = 3 MHz.
4. Set the span to a value that is 5-30 % greater than the EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at 1 MHz intervals extending across the EBW of the spectrum.

e. Test Results

Pass

f. Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	12.14	30	1	Pass
Mid	2437	12.67			Pass
High	2462	12.29			Pass

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	13.52		1	Pass

FCC ID: 012D707

Mid	2437	13.59	30		Pass
High	2462	13.53			Pass

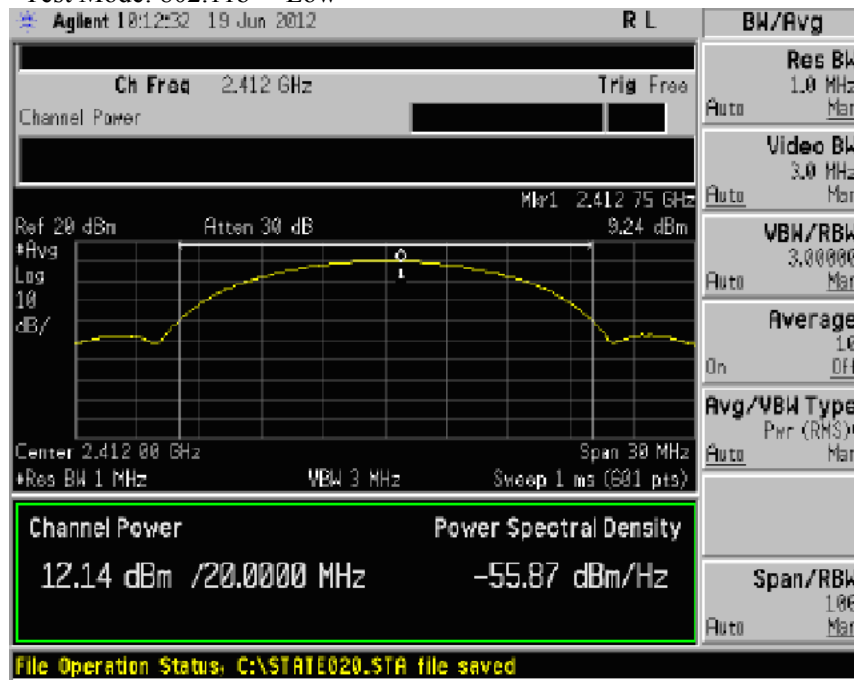
Test mode: IEEE 802.11n (HT20)

Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	12.63	30	1	Pass
Mid	2437	12.67			Pass
High	2462	12.48			Pass

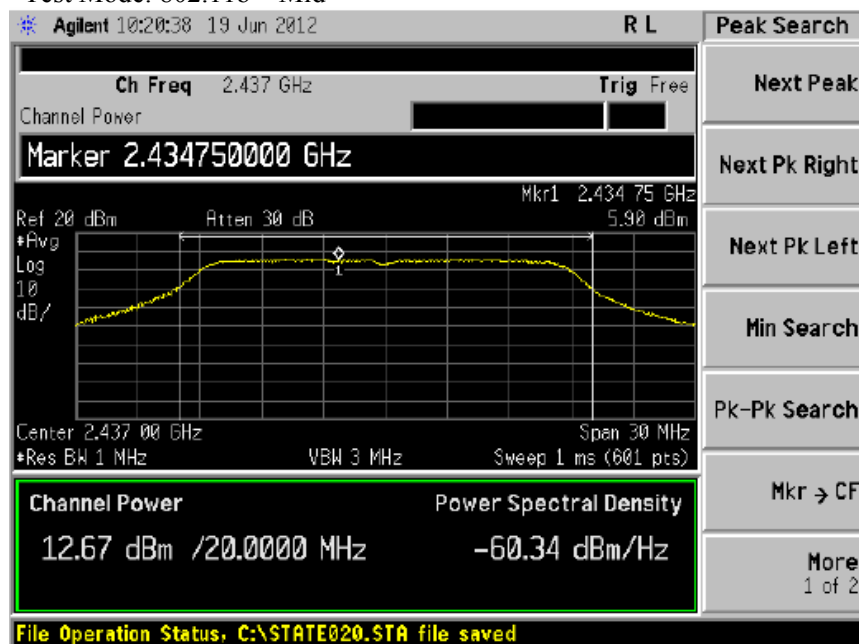
Test mode: IEEE 802.11n (HT40)

Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2422	12.22	30	1	Pass
Mid	2437	12.58			Pass
High	2452	12.69			Pass

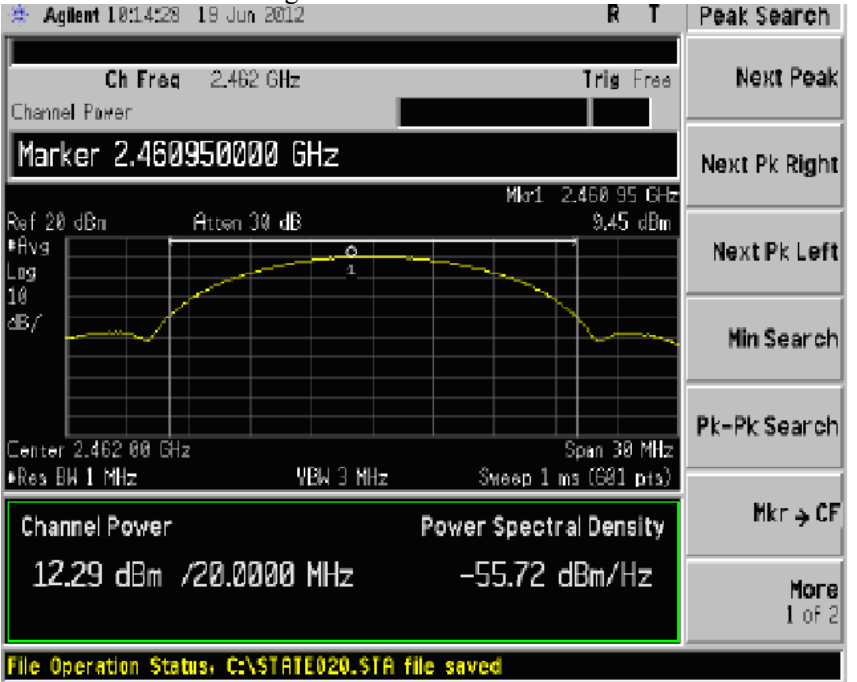
Test Mode: 802.11b ---Low



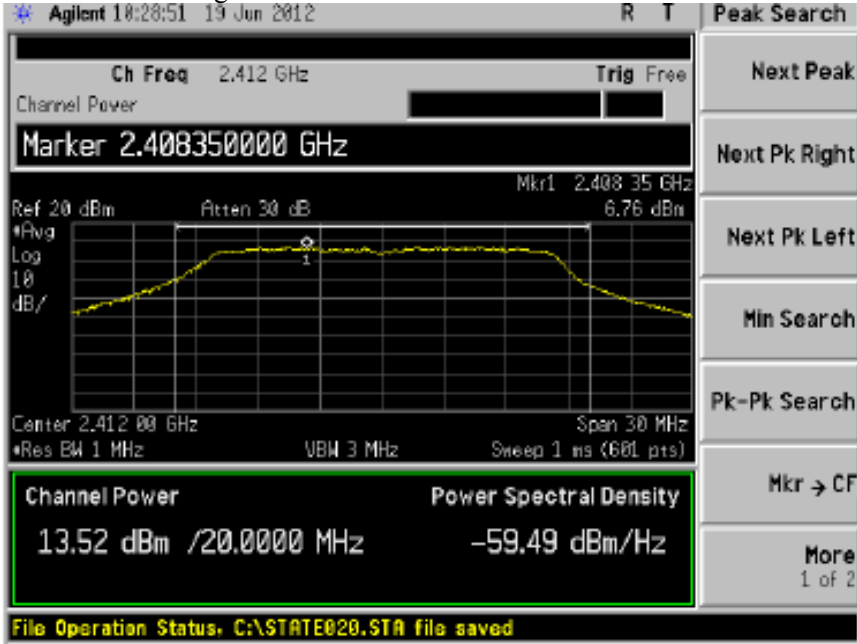
Test Mode: 802.11b---Mid



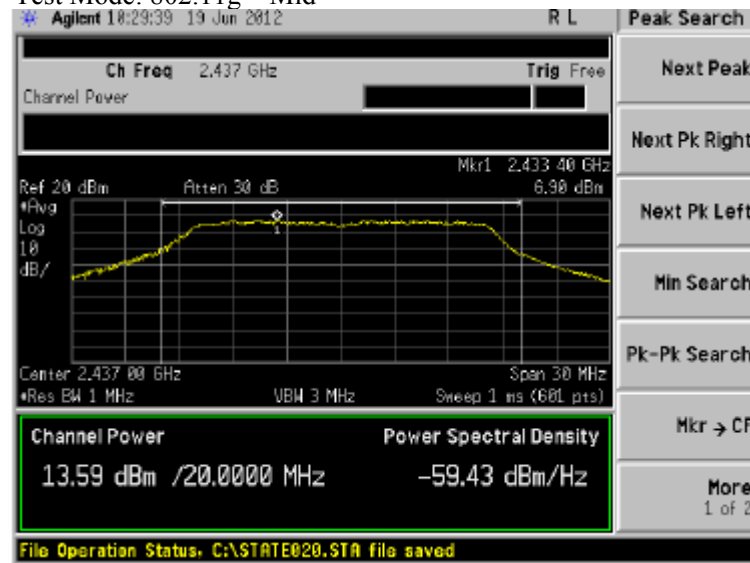
Test Mode: 802.11b---High



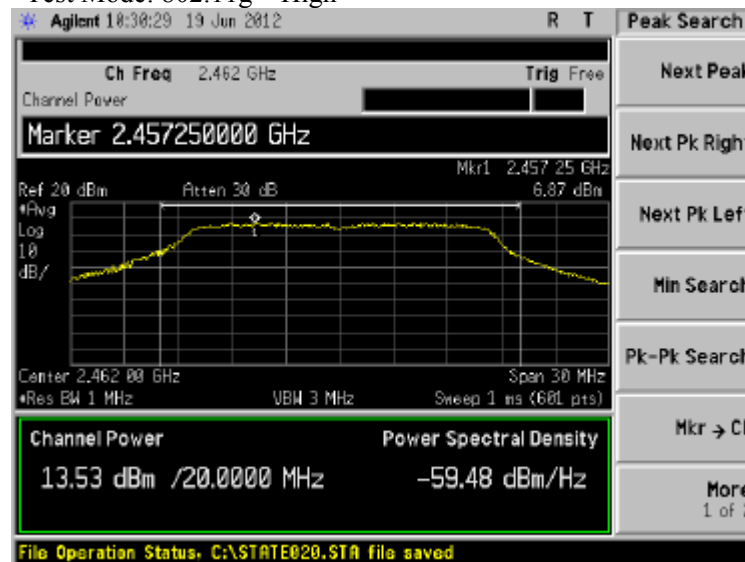
Test Mode: 802.11g ---Low



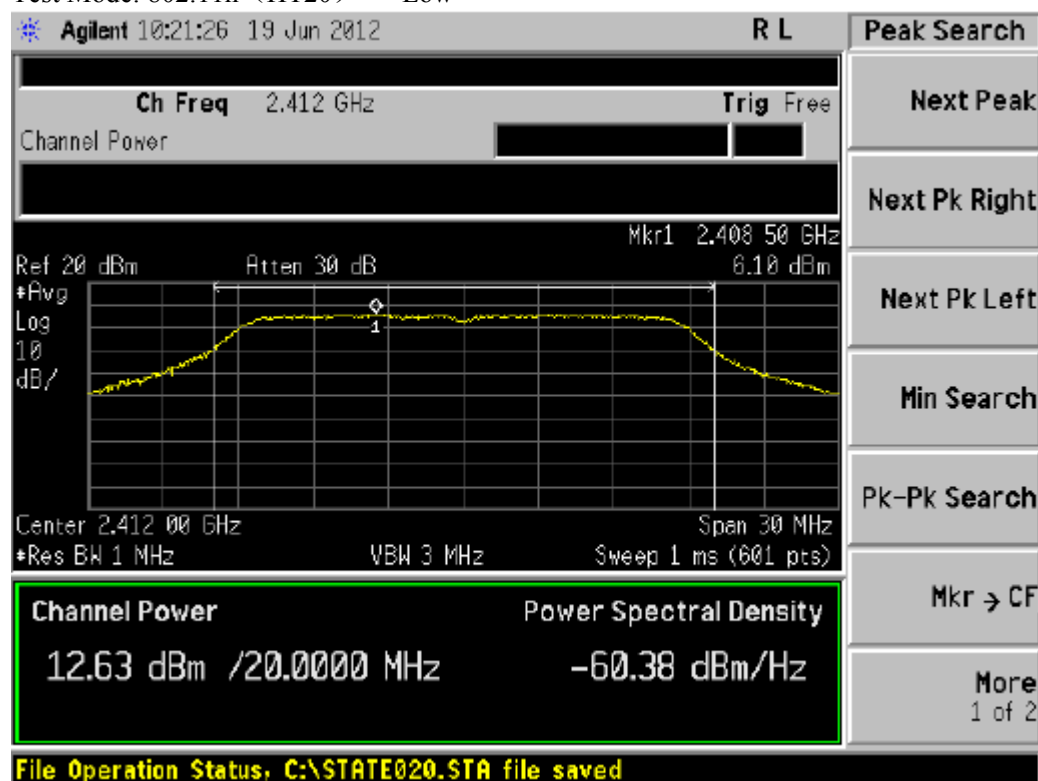
Test Mode: 802.11g---Mid



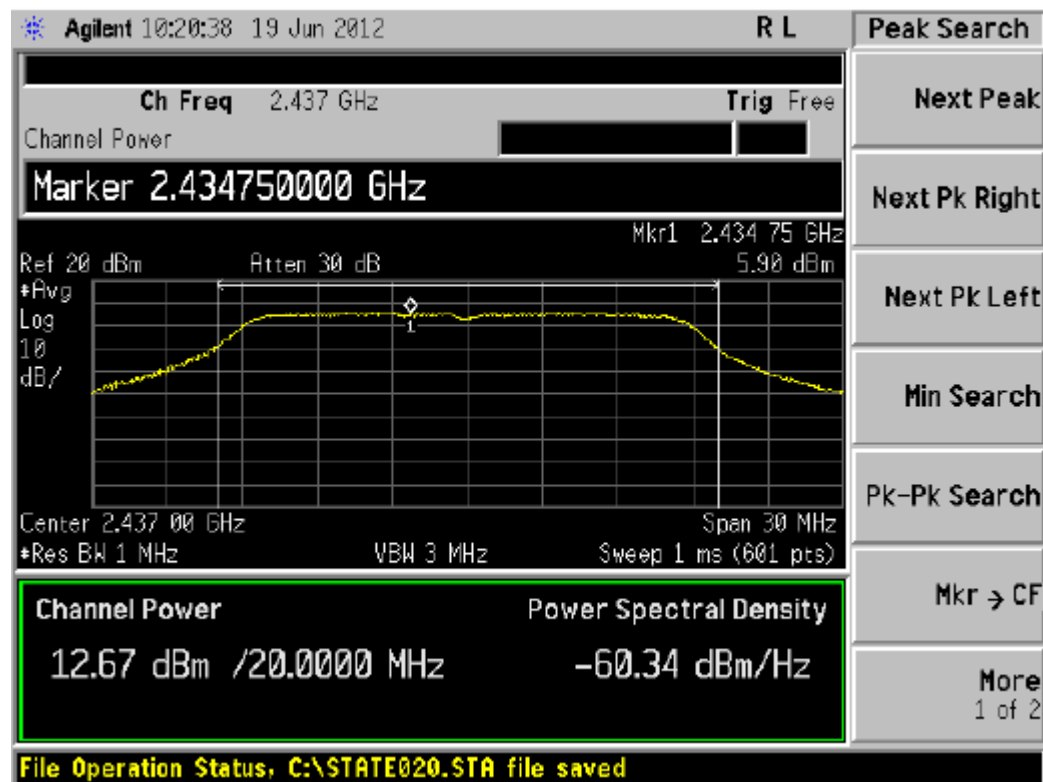
Test Mode: 802.11g---High



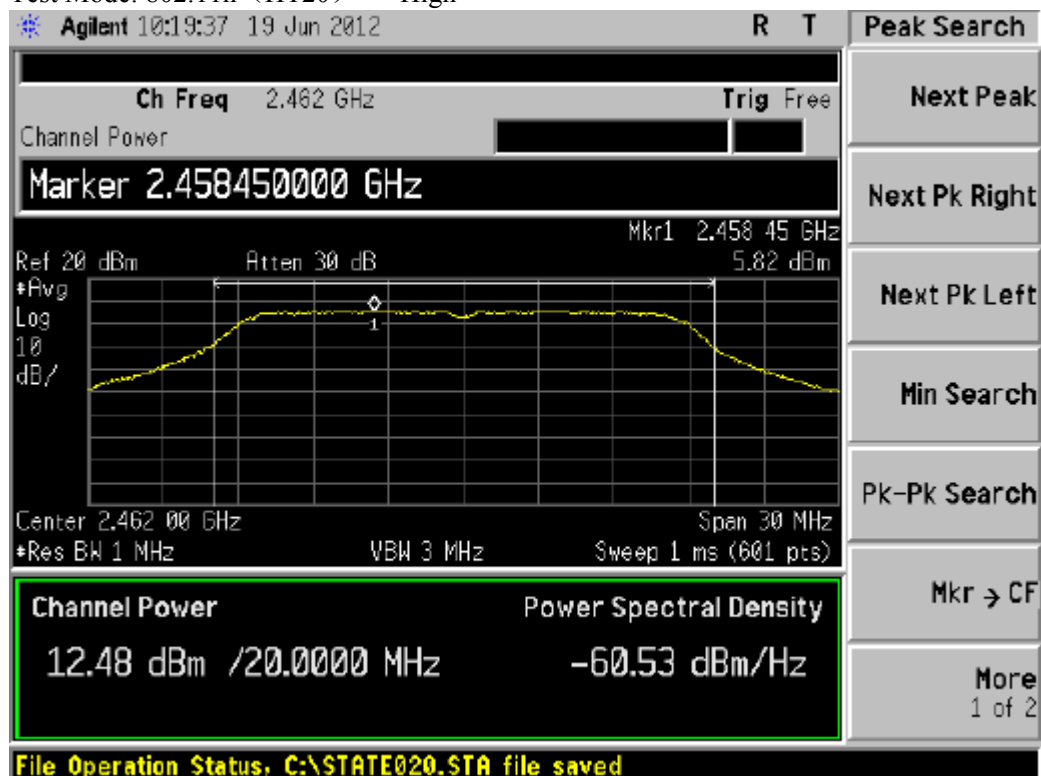
Test Mode: 802.11n (HT20) ---Low



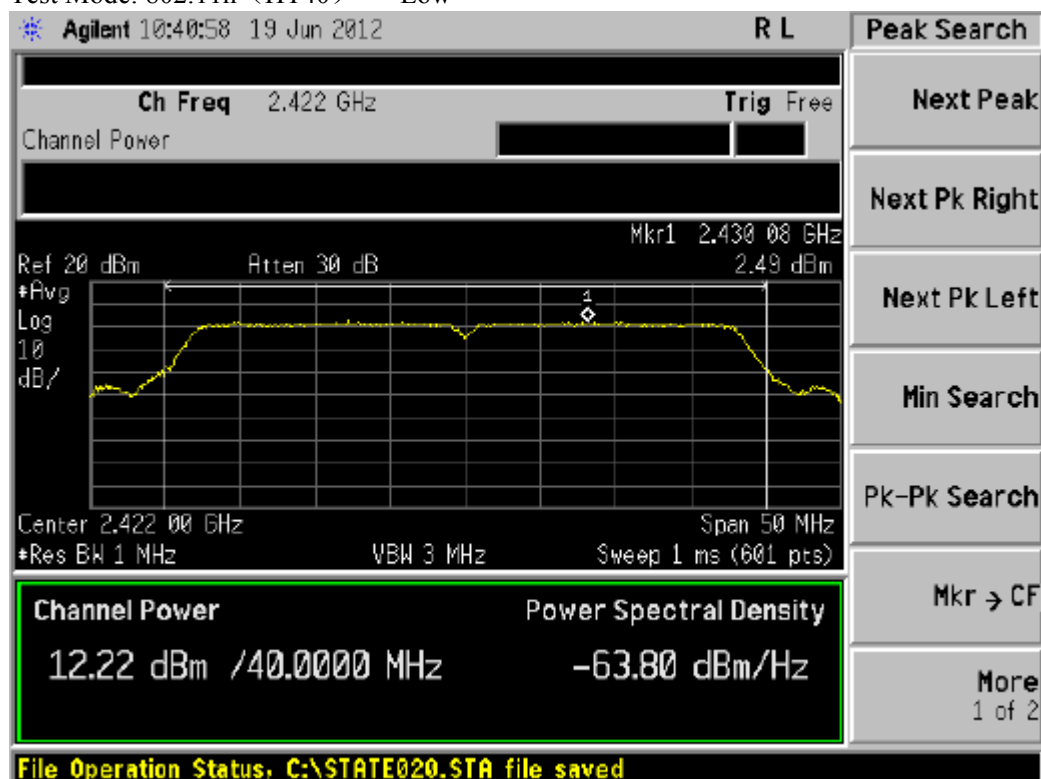
Test Mode: 802.11n (HT20) ---Mid



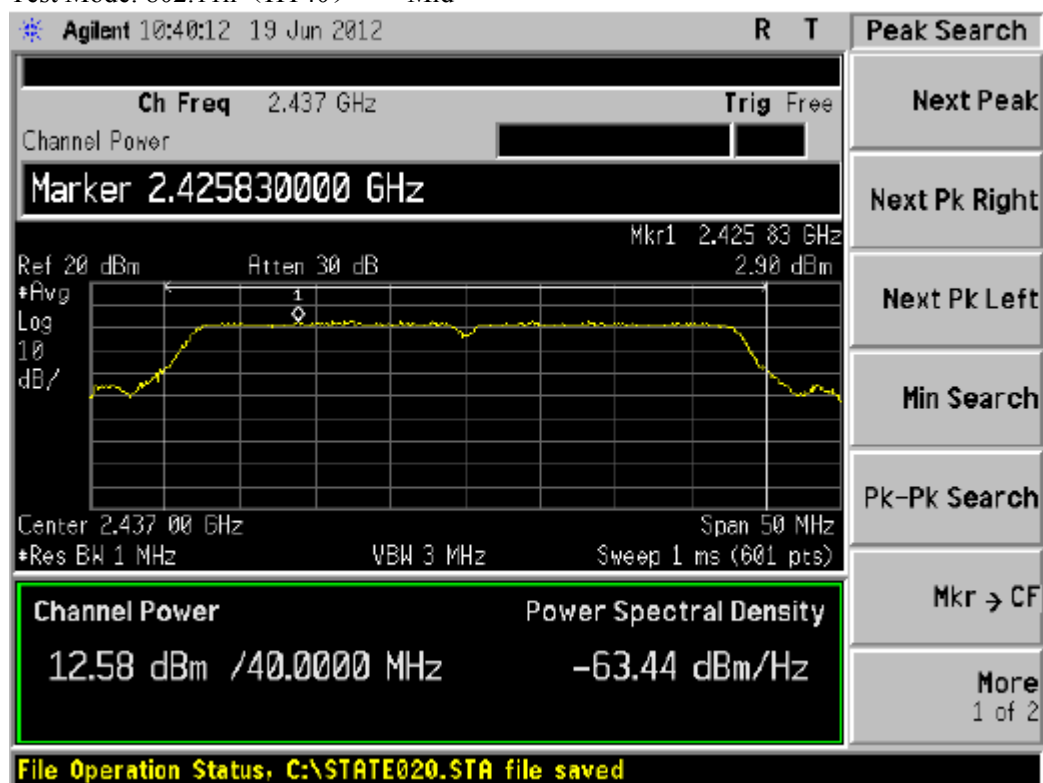
Test Mode: 802.11n (HT20) ---High



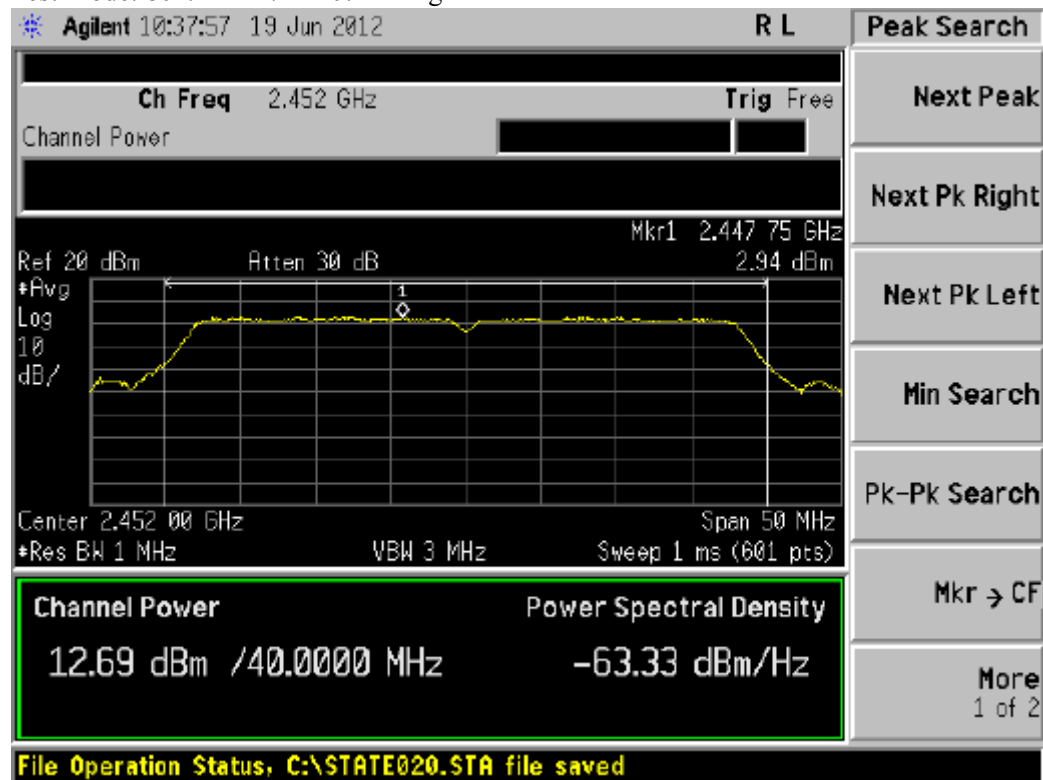
Test Mode: 802.11n (HT40) ---Low



Test Mode: 802.11n (HT40) --- Mid



Test Mode: 802.11n (HT40) ---High



5.4 Band Edges Measurement

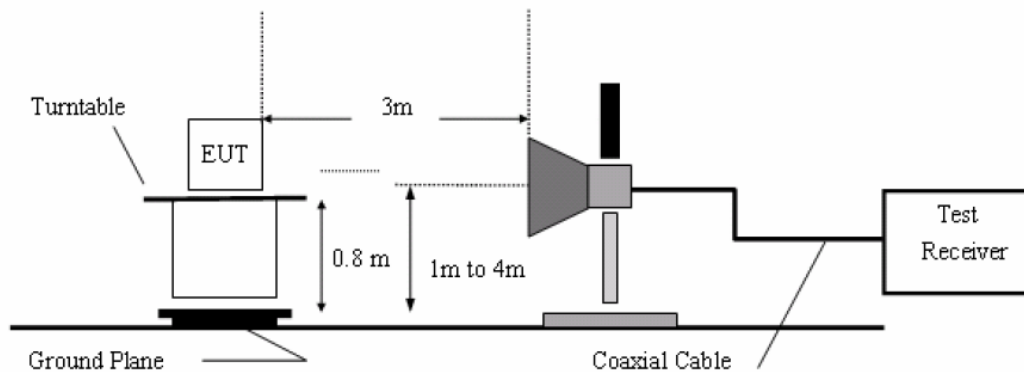
a. Limit

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

b. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Peak detector: RBW=100KHz, VBW=100KHz, SWT=AUTO
Average detector: RBW=1MHz, VBW=10Hz, SWT=AUTO
The EUT is tested in 9*6*6 Chamber.
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

c. Test Setup



d. Test Results

Pass

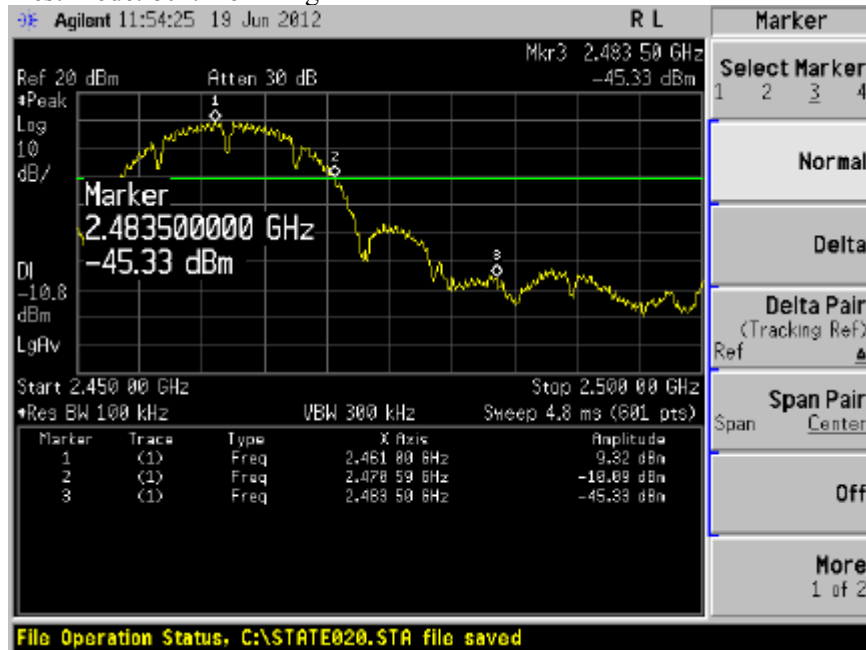
e. Test Plots

See the following page.

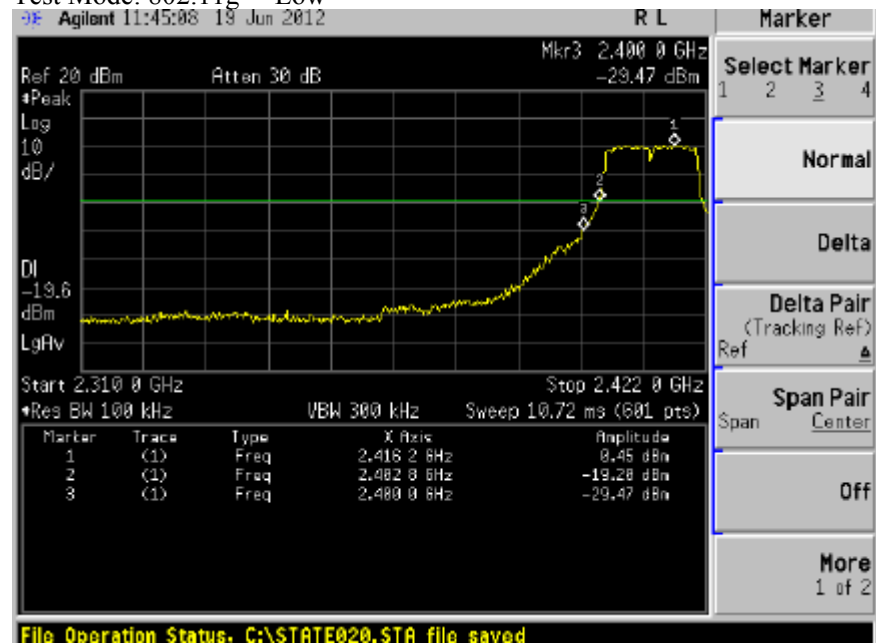
Test Mode: 802.11b ---Low



Test Mode: 802.11b ---High



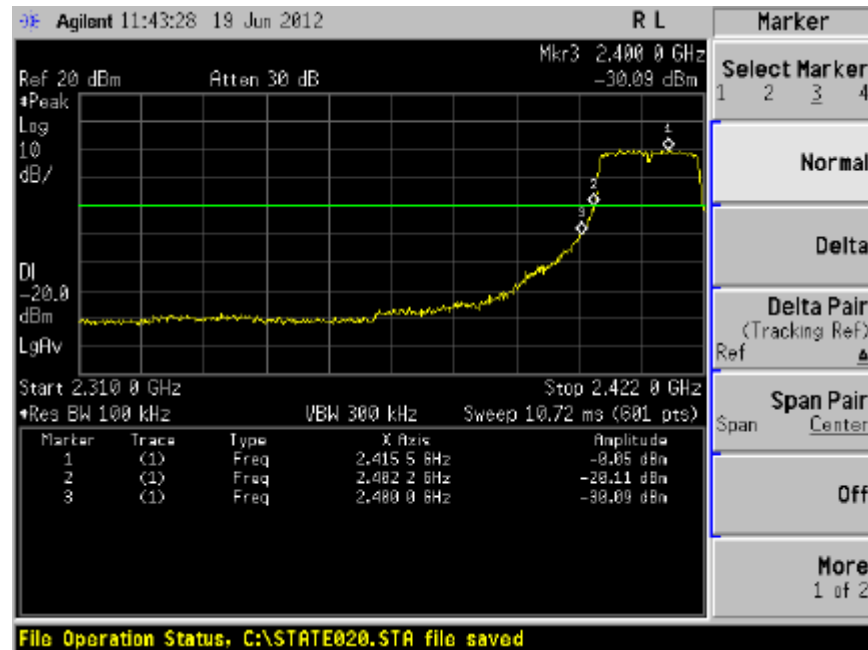
Test Mode: 802.11g ---Low



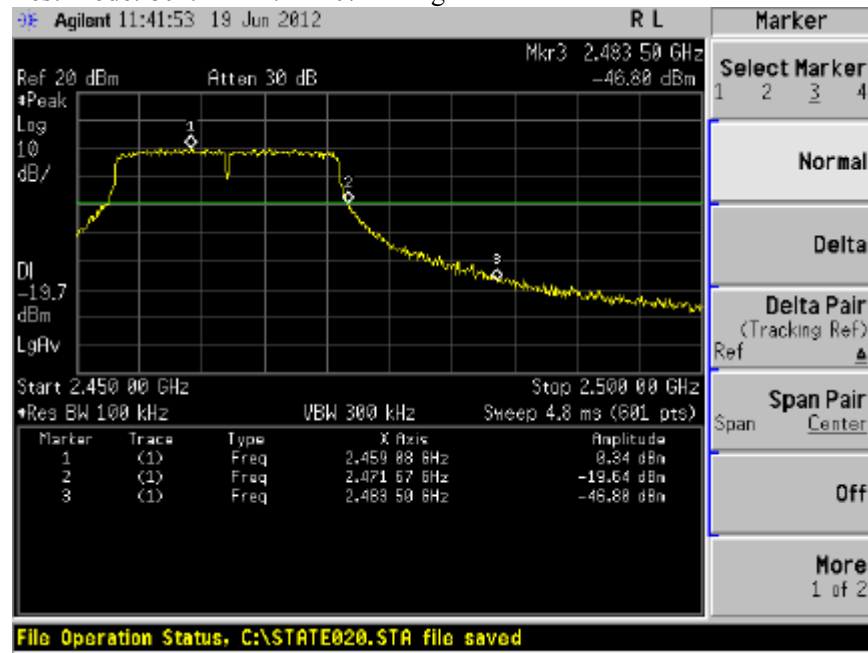
Test Mode: 802.11g ---High



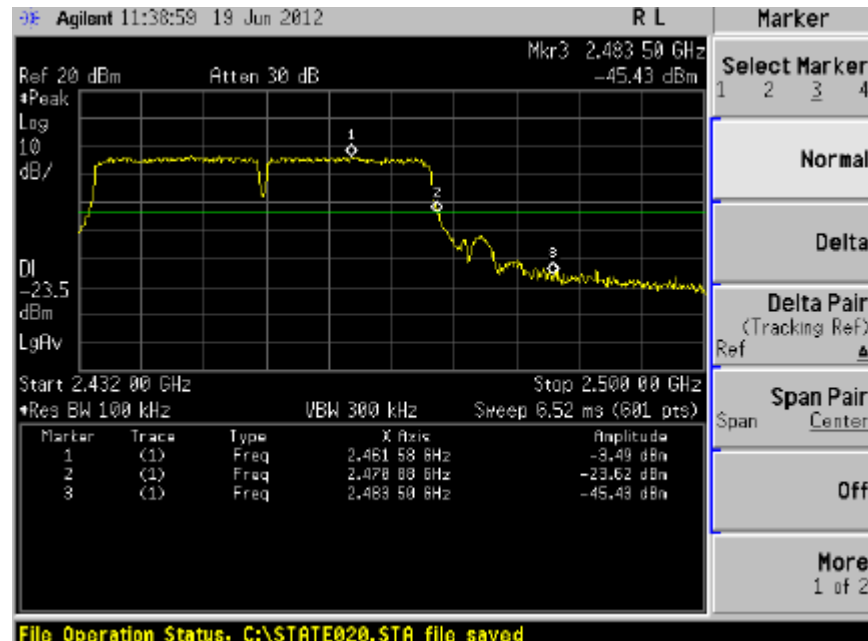
Test Mode: 802.11n (HT20) ---Low



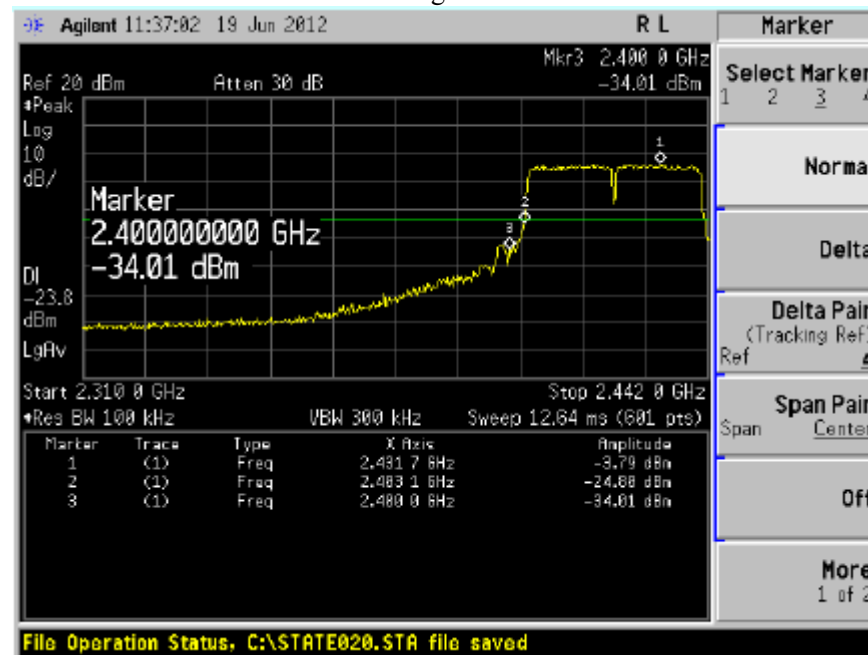
Test Mode: 802.11n (HT20) ---High



Test Mode: 802.11n (HT40) ---Low



Test Mode: 802.11n (HT40) ---High



5.5 Peak Power Spectral Density

a. Limit

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

b. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5MHz, Sweep=500s
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Setup

See 5.1

d. Test Results

Pass

e. Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	ΣPPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-27.12	-	8.00	Pass
Mid	2437	-25.63	-		Pass
High	2462	-25.16	-		Pass

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	PPSD (dBm)	ΣPPSD (dBm)	Limit (dBm)	Result
Low	2412	-25.90	-	8.00	Pass
Mid	2437	-27.26	-		Pass
High	2462	-28.26	-		Pass

Test mode: IEEE 802.11n (HT20)

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	ΣPPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-28.91	-	8.00	Pass
Mid	2437	-28.47	-		Pass
High	2462	-27.46	-		Pass

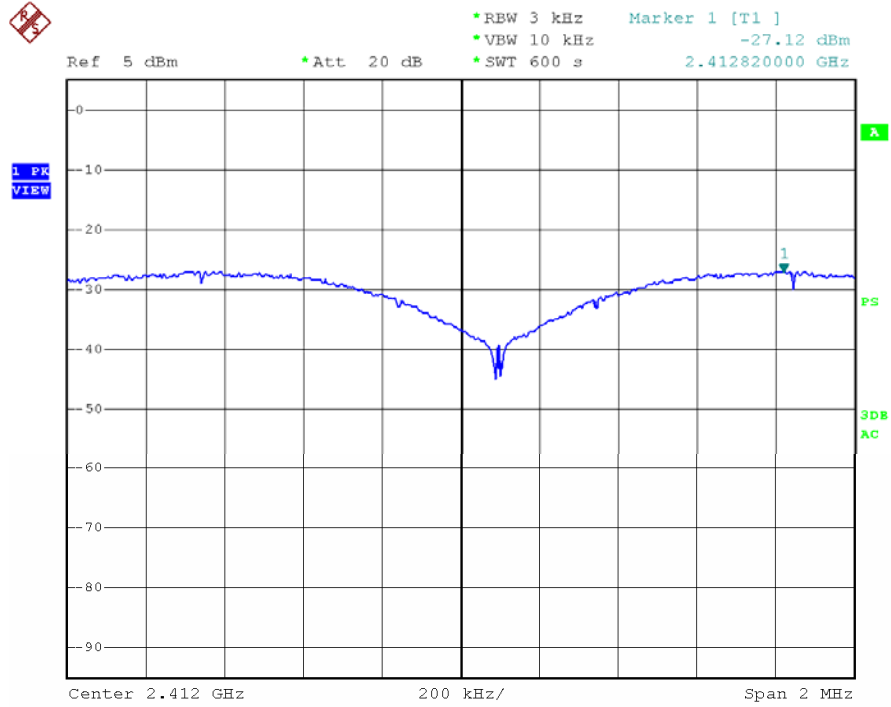
Test mode: IEEE 802.11n (HT40)

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	ΣPPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2422	-30.15	-	8.00	Pass
Mid	2437	-28.95	-		Pass
High	2452	-29.13	-		Pass

f. Test Plot

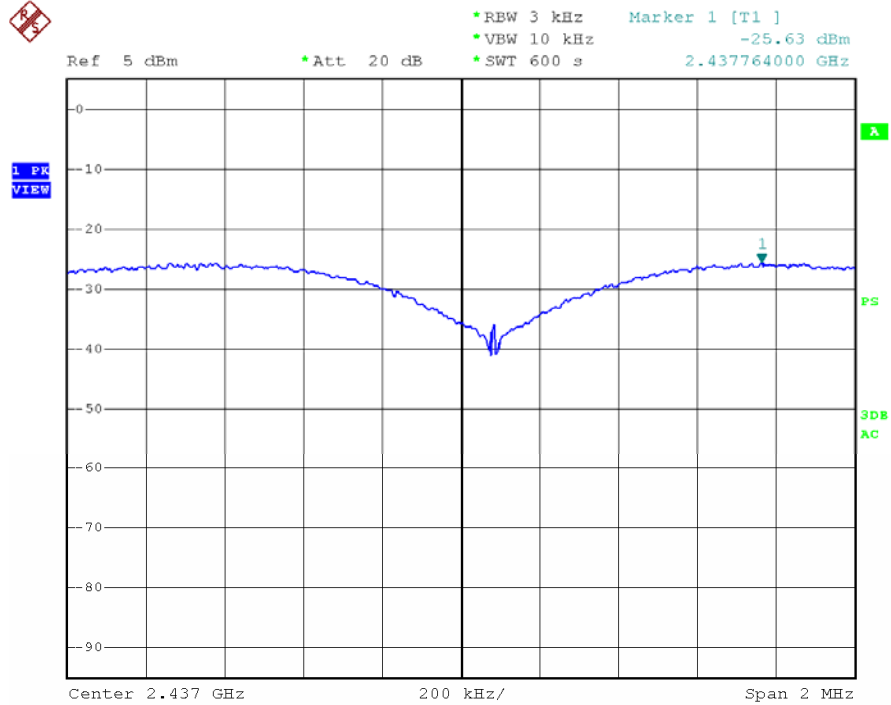
See the following pages

802.11 b CH--Low

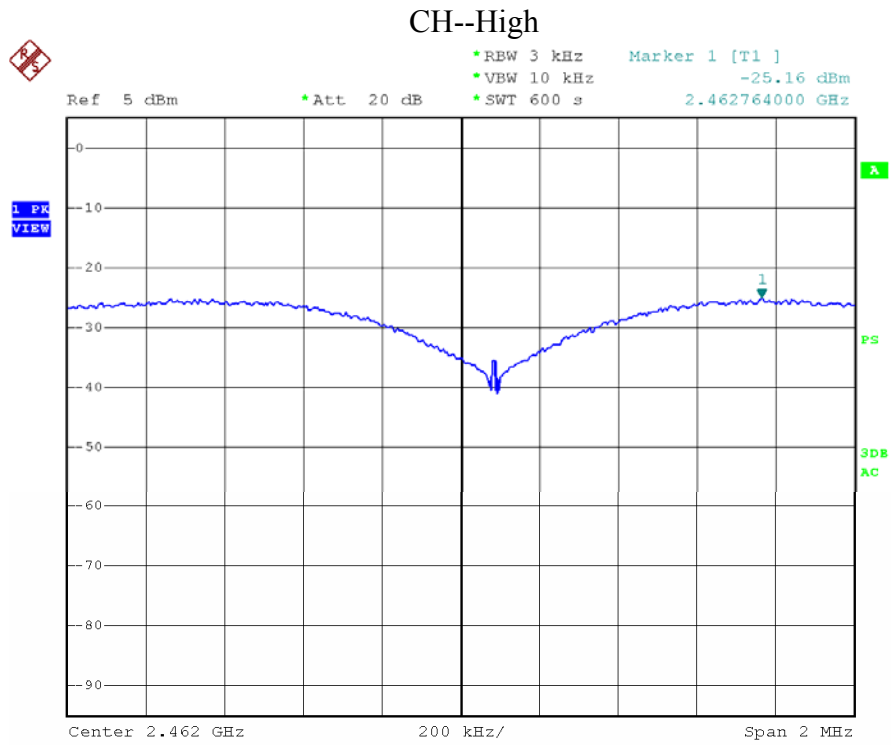


Power density-2412
I

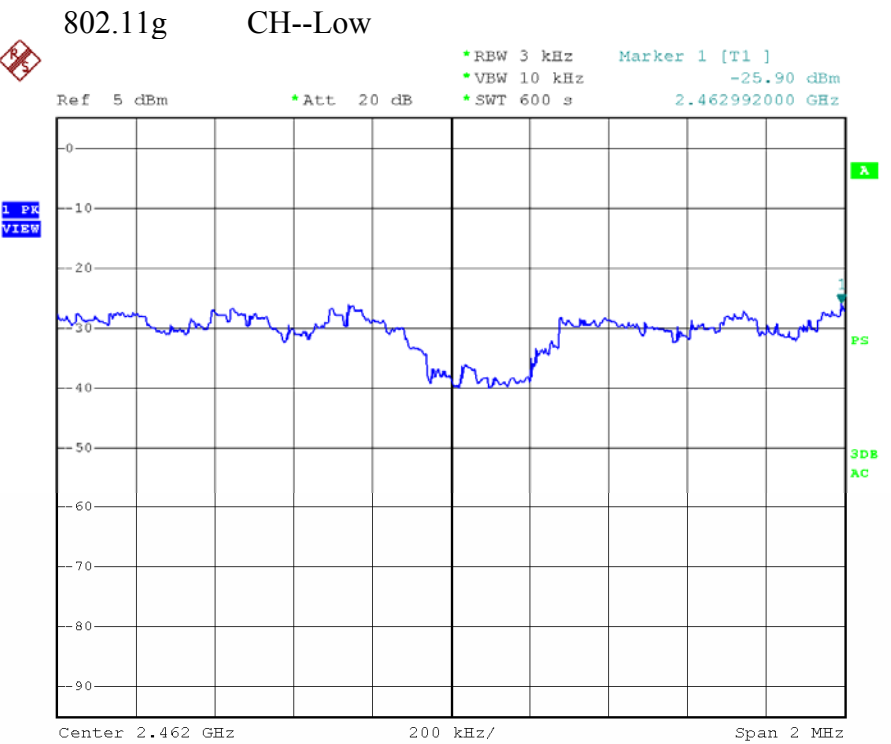
CH--Mid



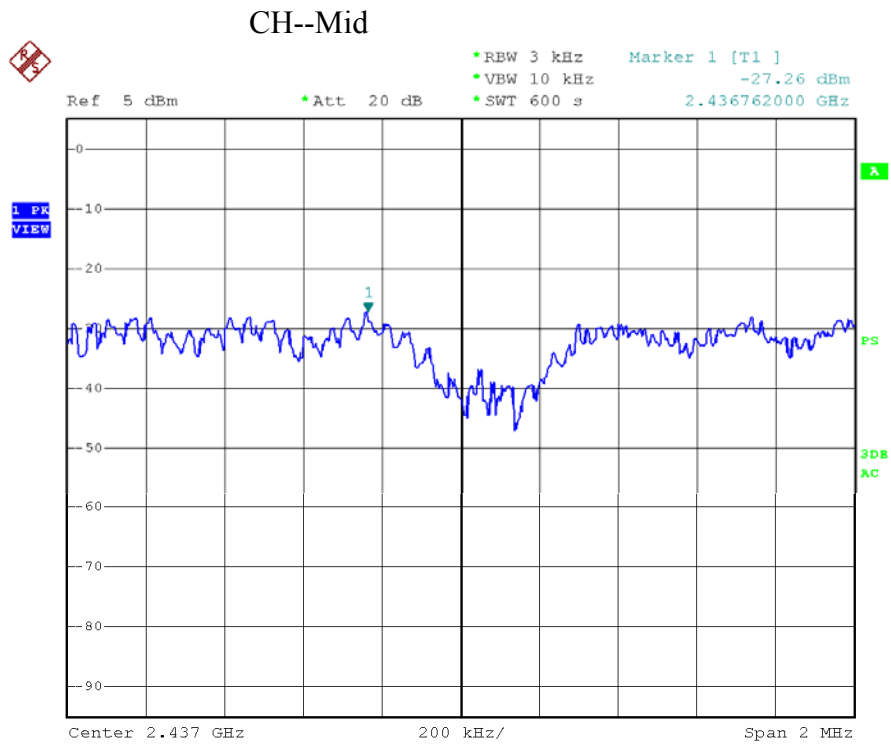
Power density-2437



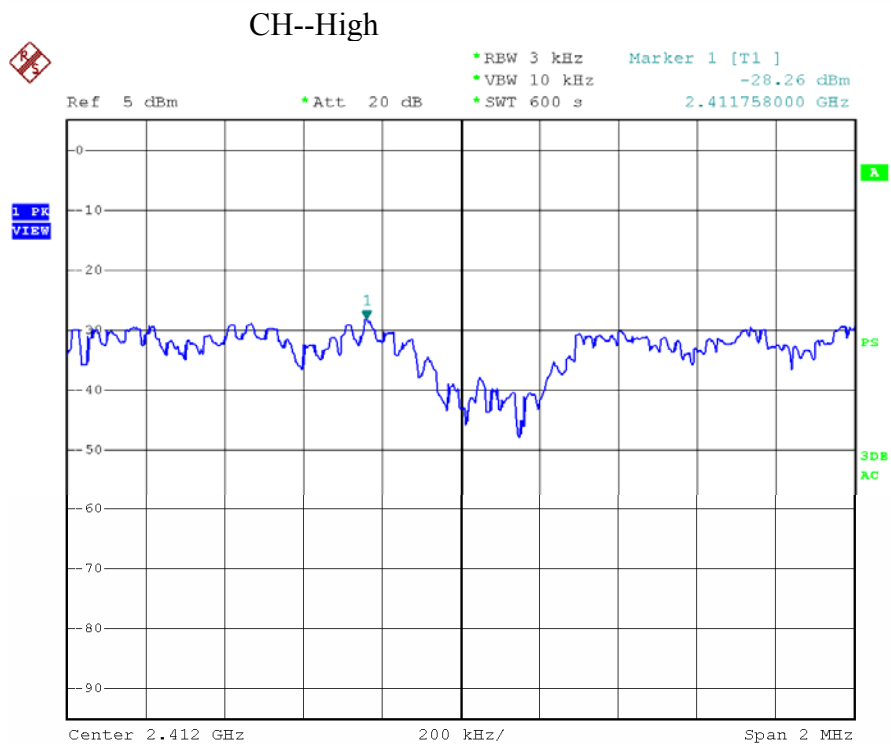
Power density-2462



Power density-2462

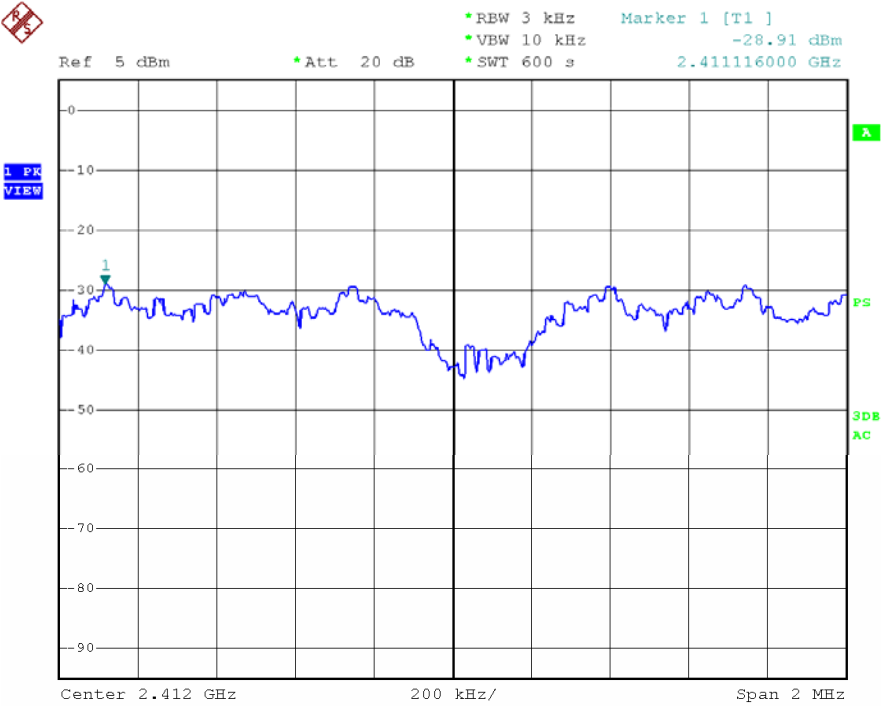


Power density-2437



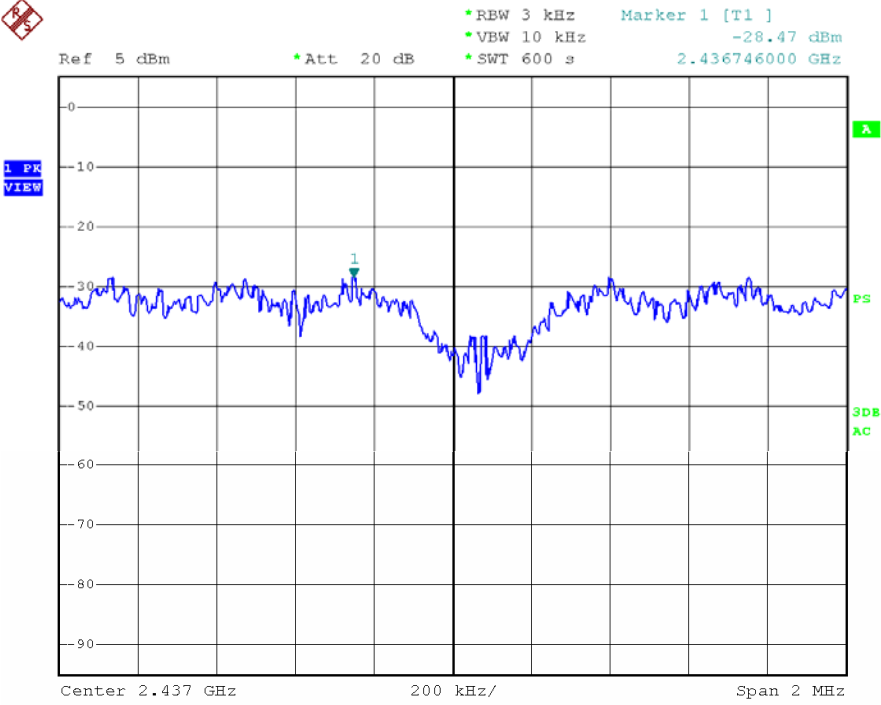
Power density-2412

802.11n (HT20) CH—Low

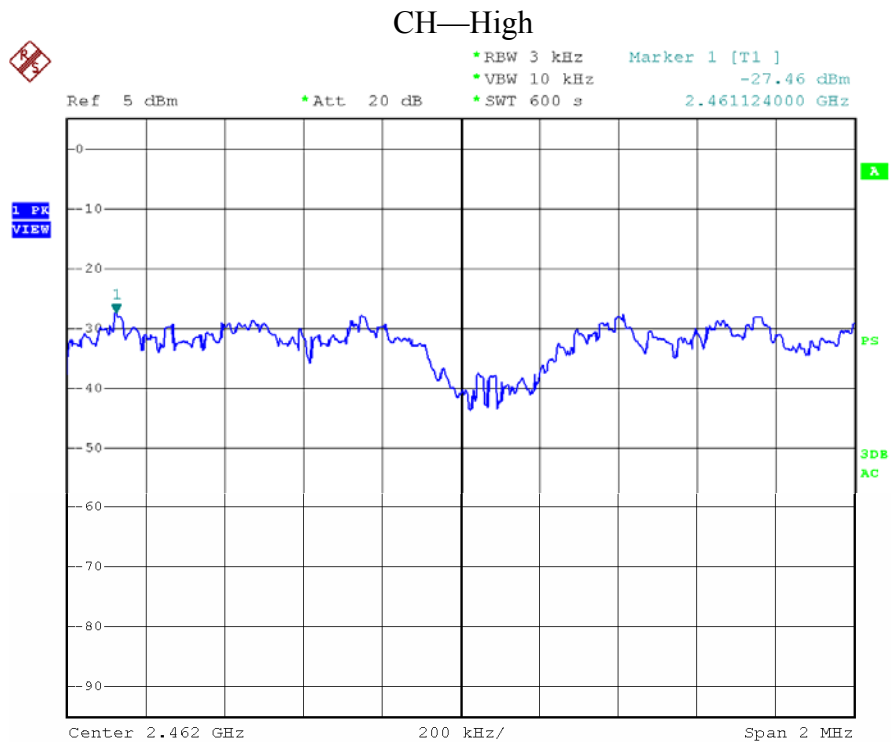


Power density-2412

CH—Mid



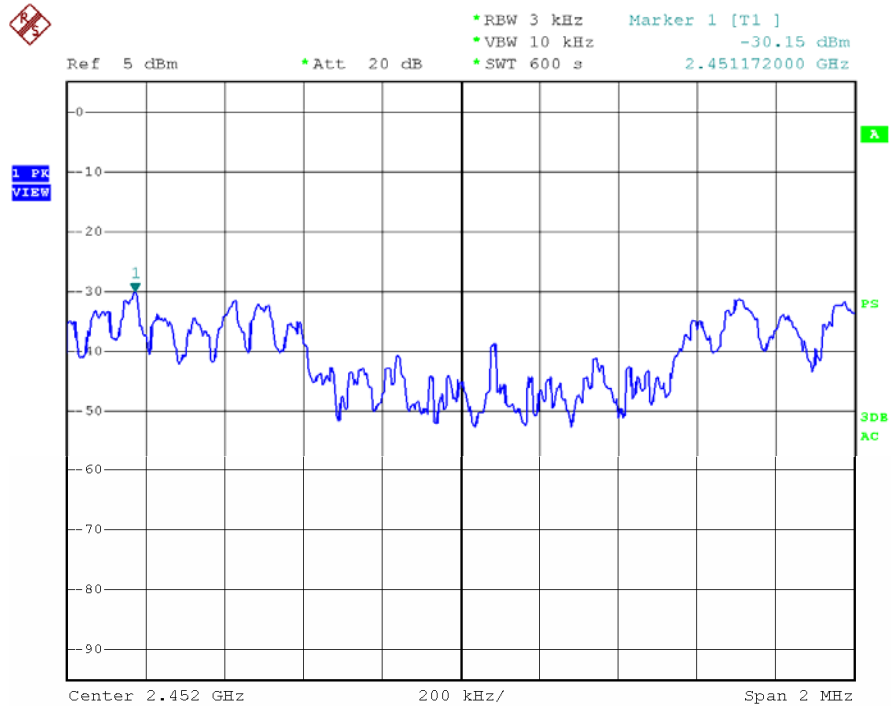
Power density-2437



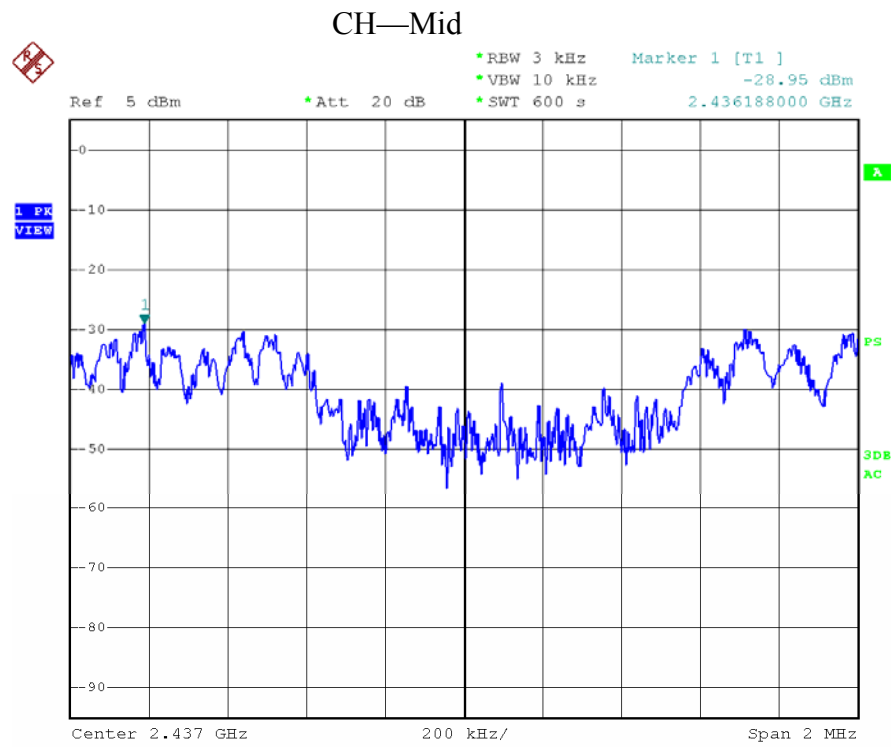
Power density-2462

.

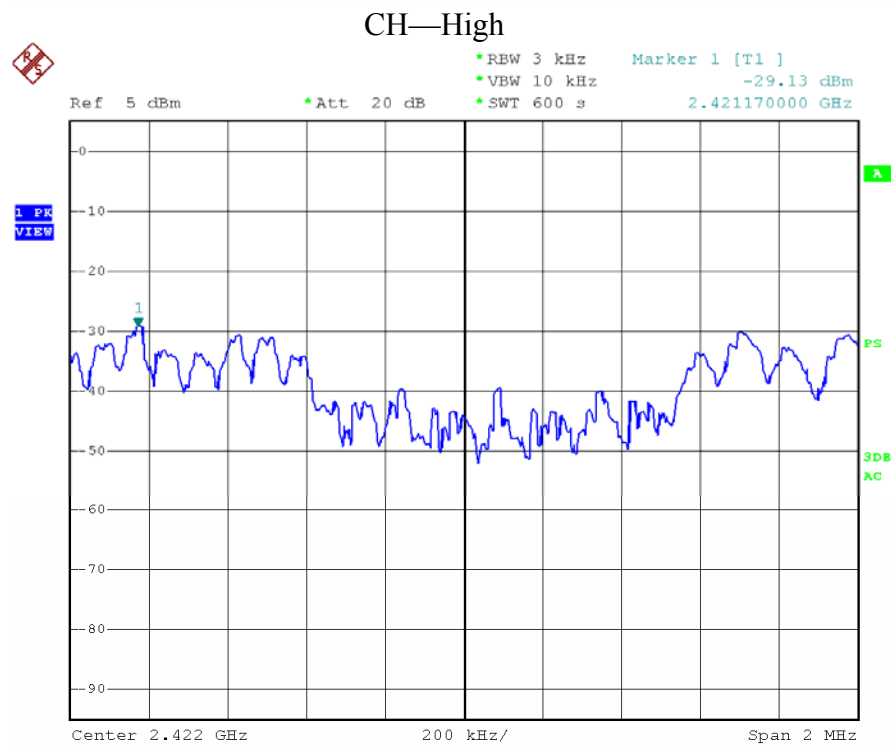
802.11n (HT20) CH—Low



Power density-2452



Power density-2437



Power density-2422

5.6 Spurious Emission Test

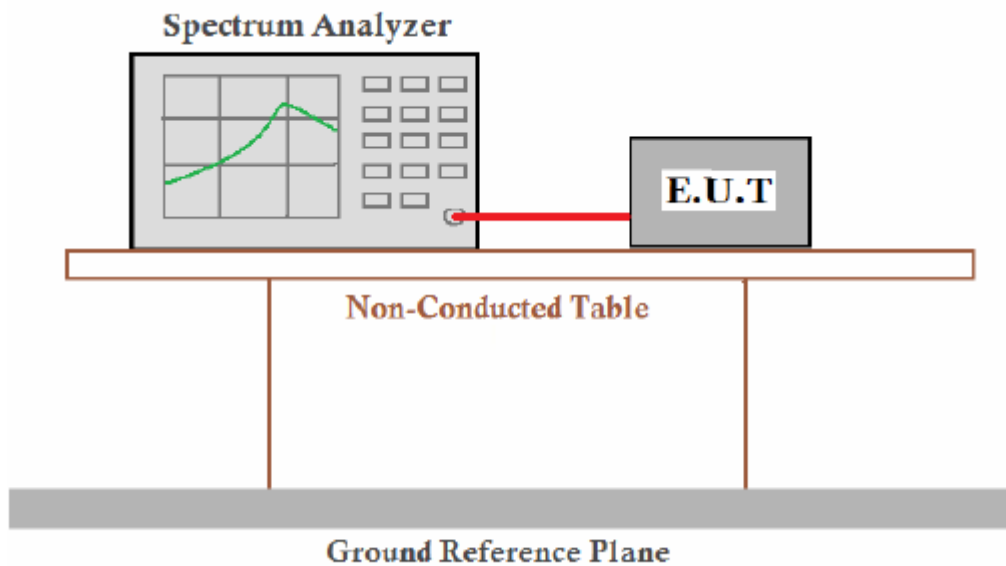
5.6.1 Test Requirement: FCC Part15 Section 15.247(d)

5.6.2 Test method: ANSI C63.4: 2003 and KDB5508074 D01 meas guidance

5.6.3 limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.6.4 Test Setup:

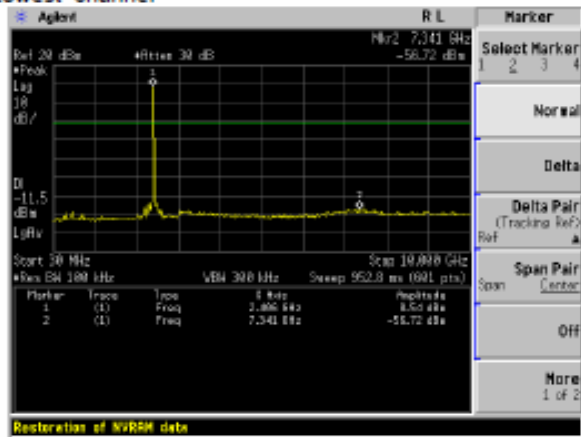


5.6.5 Test Plot as follows:

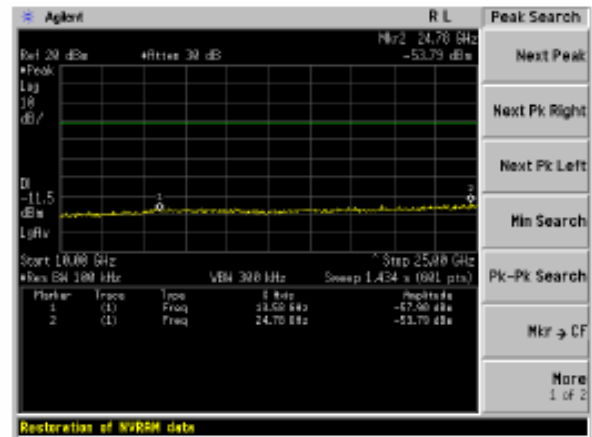
Test mode:

802.11b

Lowest channel

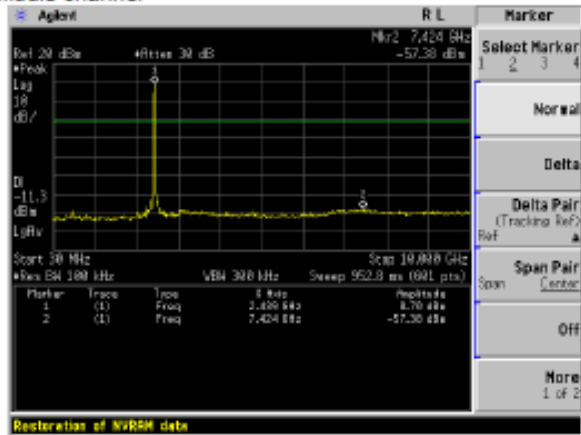


30MHz~10GHz

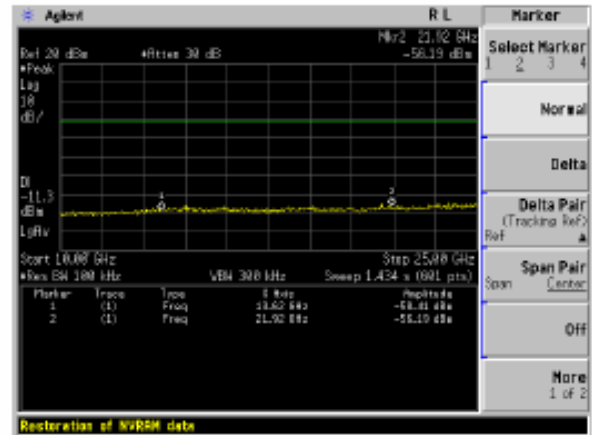


10GHz~25GHz

Middle channel

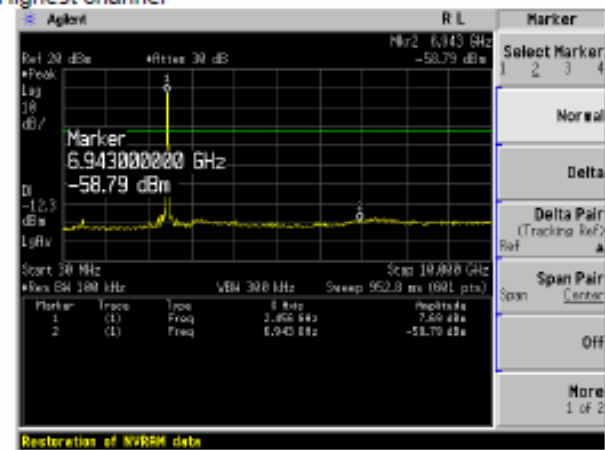


30MHz~10GHz

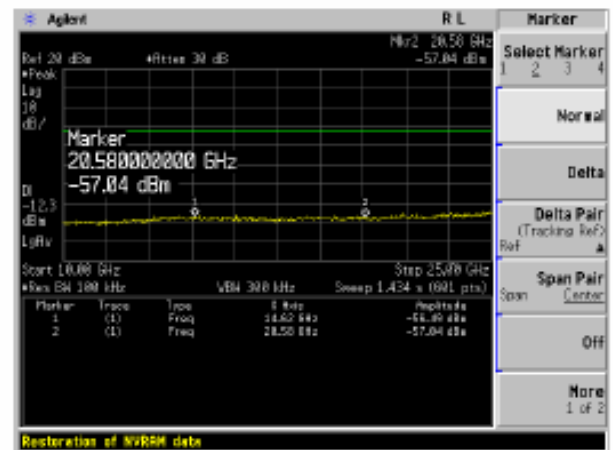


10GHz~25GHz

Highest channel



30MHz~10GHz

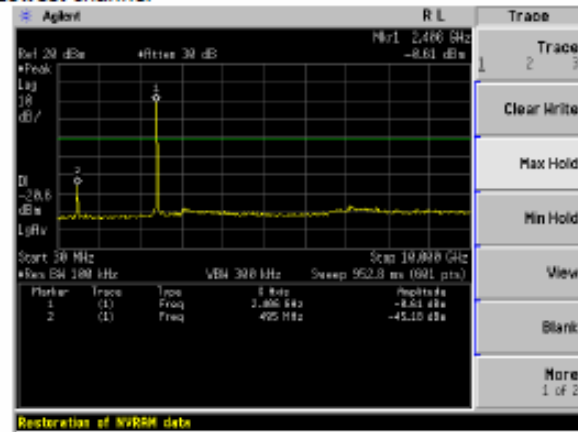


10GHz~25GHz

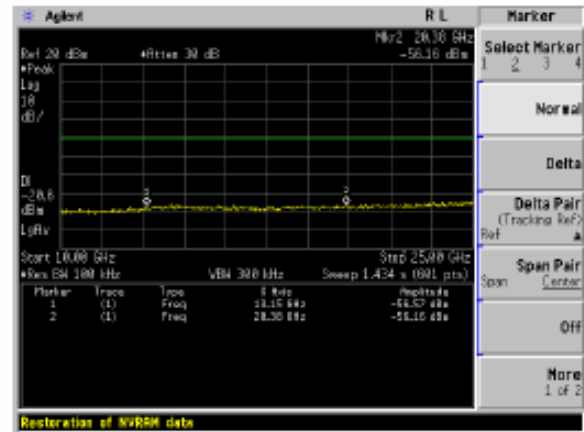
Test mode:

802.11g

Lowest channel

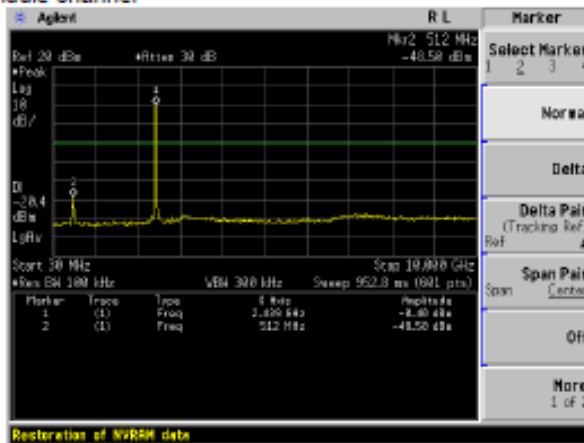


30MHz~10GHz

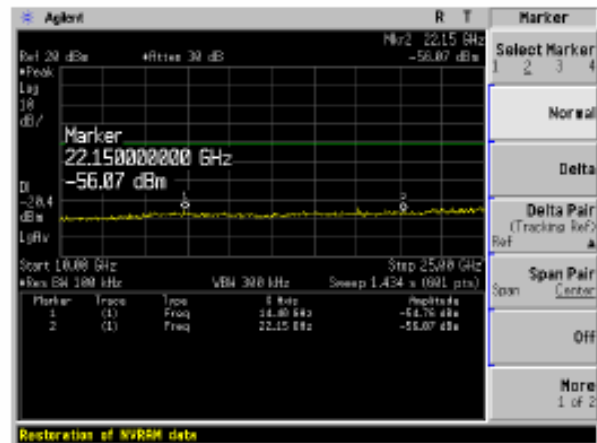


10GHz~25GHz

Middle channel

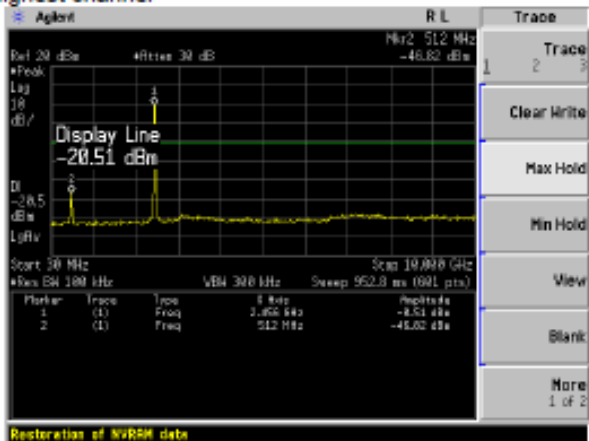


30MHz~10GHz

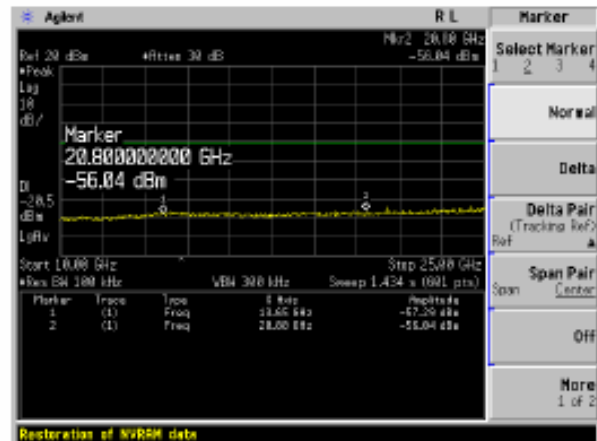


10GHz~25GHz

Highest channel



30MHz~10GHz

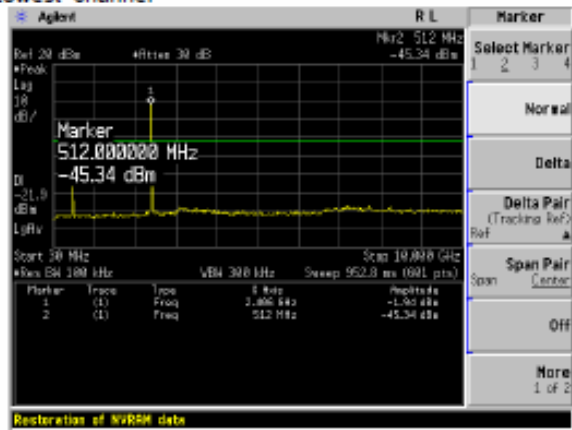


10GHz~25GHz

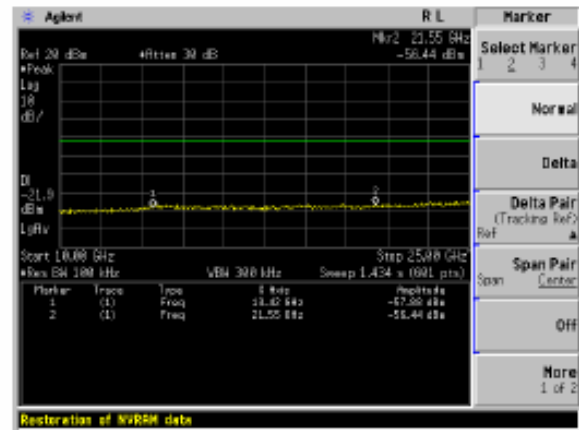
Test mode:

802.11n(HT20)

Lowest channel

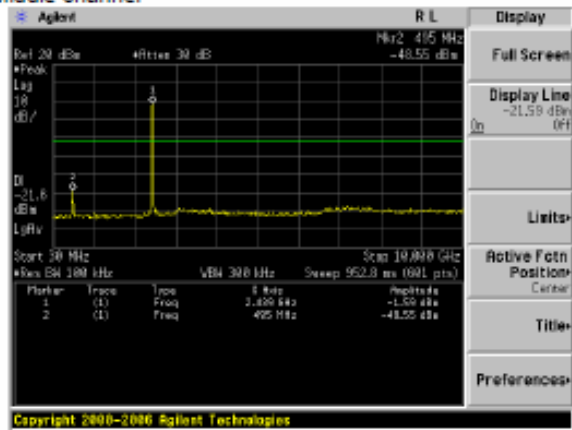


30MHz~10GHz

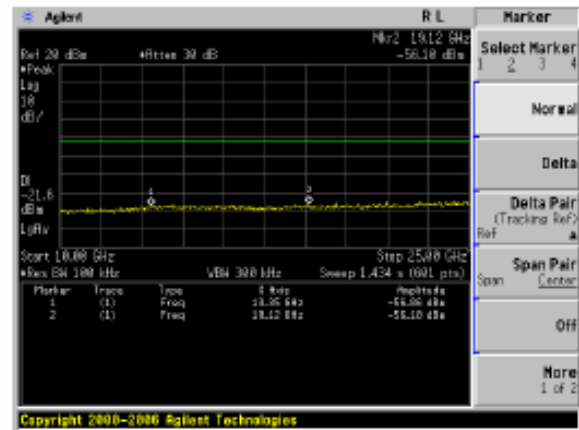


10GHz~25GHz

Middle channel

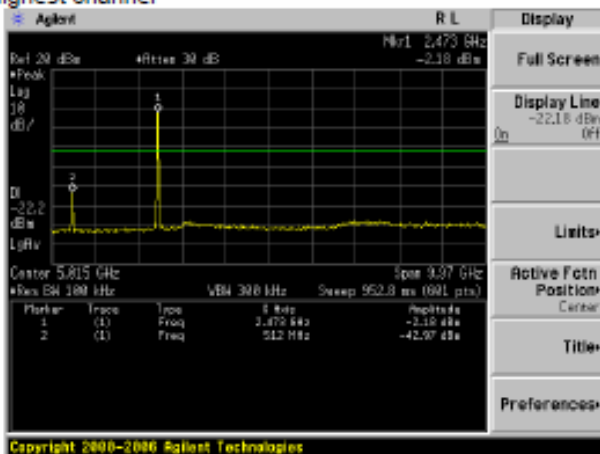


30MHz~10GHz

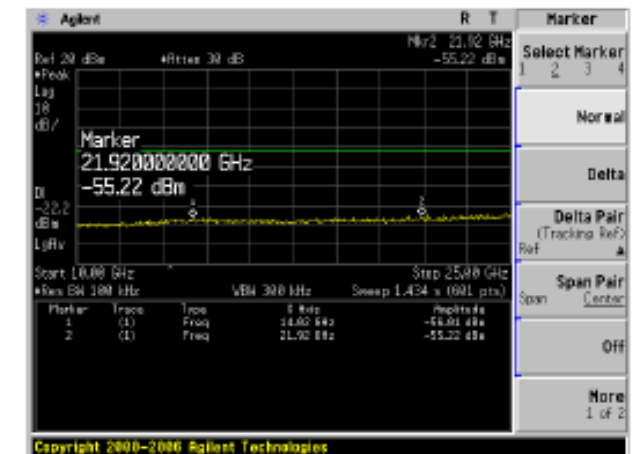


10GHz~25GHz

Highest channel



30MHz~10GHz

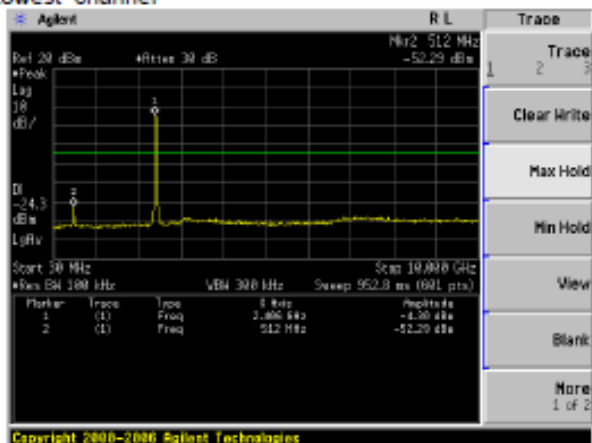


10GHz~25GHz

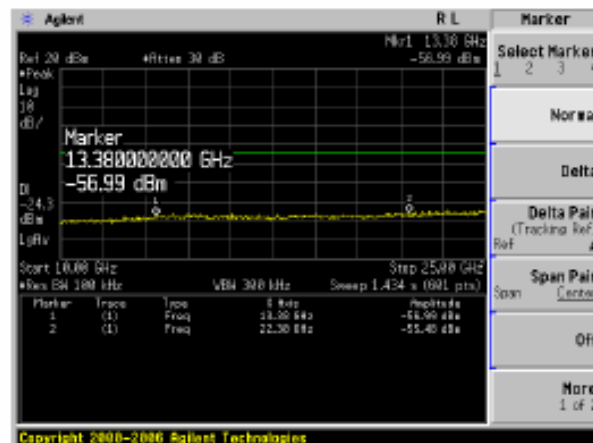
Test mode:

802.11n(HT40)

Lowest channel

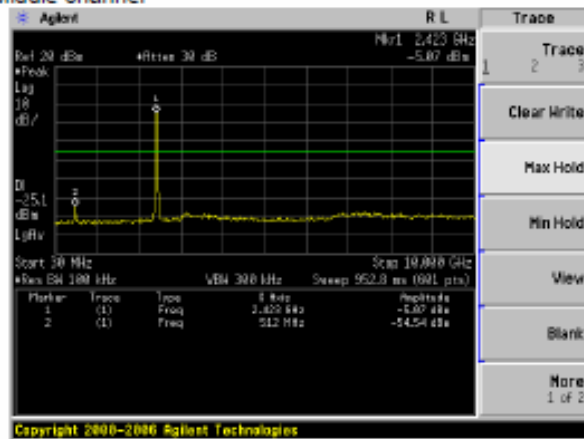


30MHz~10GHz

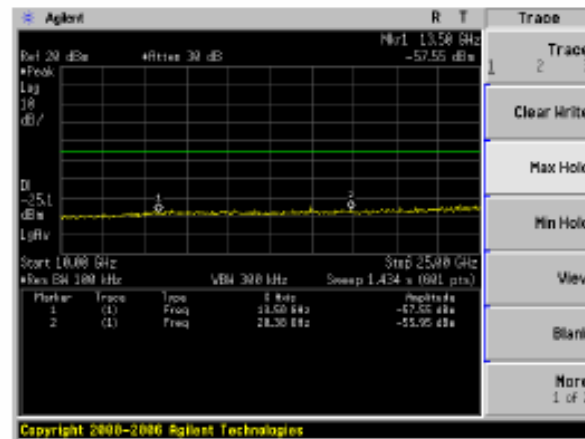


10GHz~25GHz

Middle channel

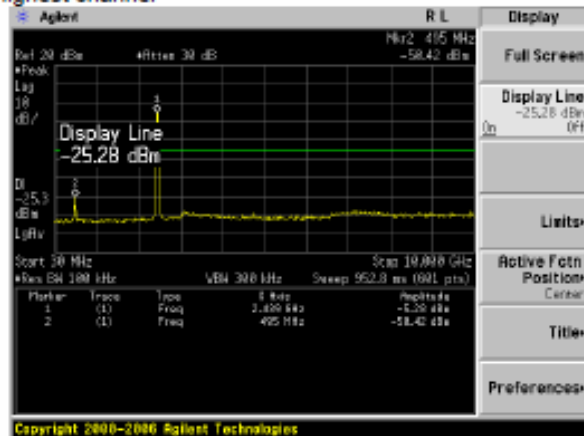


30MHz~10GHz

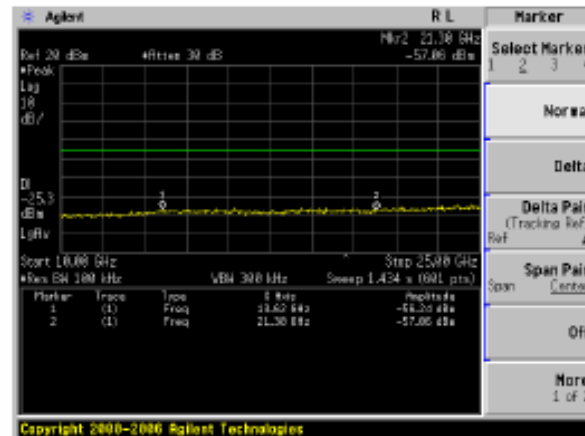


10GHz~25GHz

Highest channel



30MHz~10GHz



10GHz~25GHz

5.7 Radiated Emissions

5.7.1.1. Test Limits (< 30 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

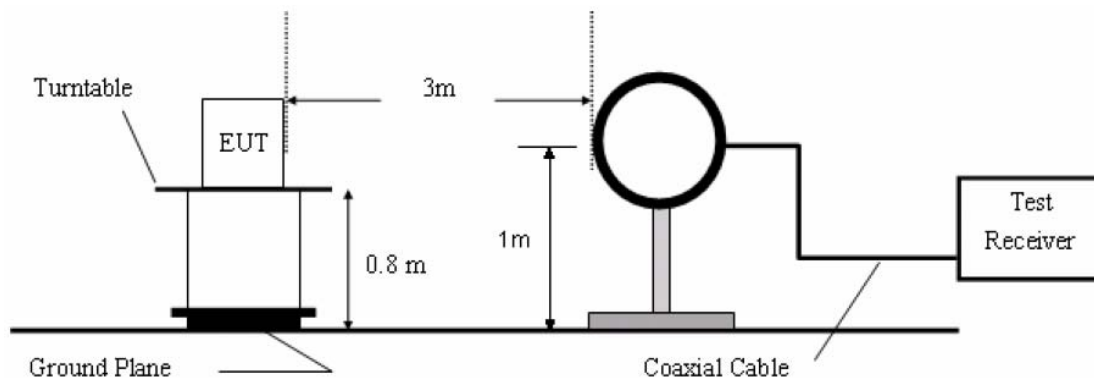
5.7.1.2. Test Limits (\geq 30 MHz)

FIELD STRENGTH of Fundamental:	FIELD STRENGTH of Harmonics	S15.209	
902-928 MHz		30 - 88 MHz	40 dBuV/m @3M
2.4-2.4835 GHz		88 - 216 MHz	43.5
94 dBuV/m @3m	54 dBuV/m @3m	216 - 960 MHz	46
		ABOVE 960 MHz	54dBuV/m

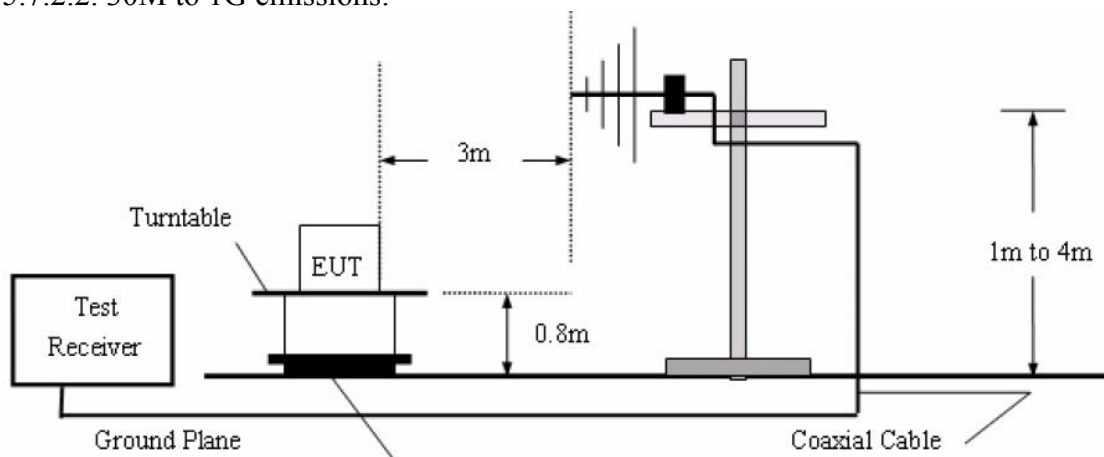
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.7.2. Test Configuration:

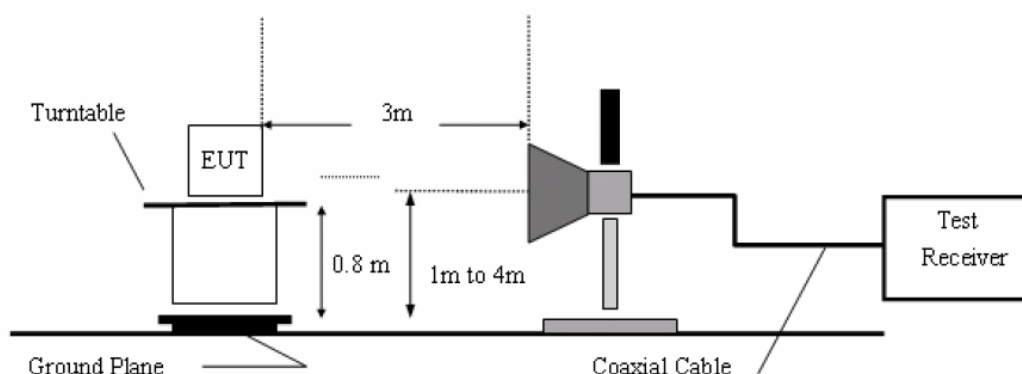
5.7.2.1. 9k to 30MHz emissions:



5.7.2.2. 30M to 1G emissions:



5.7.2.3. 1G to 40G emissions:



5.7.3. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Measurements are made on 9KHz to 30MHz and 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 5.6.4.

5.7.4. Test Results

Below 30MHz

There is no emissions were detected below 30MHz

From 30MHz to 1 GHz

Operation Mode: Normal link

Temperature: 25°C

Humidity: 70 % RH

Test Date: Jun. 24, 2012

Tested by: Andy Chen

Polarity: Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Detector Mode (PK/QP)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
60.0690	V	Peak	61.00	-25.23	35.77	40.00	-4.23
125.0066	V	Peak	64.63	-25.20	39.43	43.50	-4.07
159.7844	V	Peak	64.33	-26.49	37.84	43.50	-5.66
250.3011	V	Peak	63.83	-22.54	41.29	46.00	-4.71
480.5276	V	Peak	58.56	-19.63	38.89	46.00	-7.11
801.7862	V	Peak	53.24	-12.59	40.65	46.00	-5.35
125.0066	H	Peak	64.81	-30.00	34.81	43.50	-8.69
159.7844	H	Peak	71.35	-31.49	39.86	43.50	-3.64
250.3011	H	Peak	69.22	-26.27	42.95	46.00	-3.05
375.9384	H	Peak	60.96	-21.90	39.06	46.00	-6.94
480.5276	H	Peak	62.34	-19.90	42.44	46.00	-3.56
801.7862	H	Peak	55.41	-13.58	41.83	46.00	-4.17

Notes:

1. Measuring frequencies from 30 MHz to the 1GHz and the IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/Quasi-peak detector mode.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Above 1 GHz**■ Above 1GHz**

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.01	31.79	8.61	24.17	45.24	74.00	-28.76	Vertical
7236.00	29.39	36.19	11.68	26.52	50.74	74.00	-23.26	Vertical
9648.00	29.94	38.07	14.16	25.44	56.73	74.00	-17.27	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	26.93	31.81	8.62	24.17	43.19	74.00	-30.81	Horizontal
7236.00	27.98	36.19	11.68	26.52	49.33	74.00	-24.67	Horizontal
9648.00	28.29	38.07	14.16	25.44	55.08	74.00	-18.92	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	19.24	31.79	8.61	24.17	35.47	54.00	-18.53	Vertical
7236.00	20.15	36.19	11.68	26.52	41.50	54.00	-12.50	Vertical
9648.00	21.48	38.07	14.16	25.44	48.27	54.00	-5.73	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	21.43	31.81	8.62	24.17	37.69	54.00	-16.31	Horizontal
7236.00	21.78	36.19	11.68	26.52	43.13	54.00	-10.87	Horizontal
9648.00	17.19	38.07	14.16	25.44	43.98	54.00	-10.02	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11b	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.63	31.85	8.66	24.12	46.02	74.00	-27.98	Vertical
7311.00	29.22	36.37	11.71	26.71	50.59	74.00	-23.41	Vertical
9748.00	30.93	38.27	14.25	25.38	58.07	74.00	-15.93	Vertical
12185.00	*					74.00		Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	27.26	31.85	8.66	24.10	43.67	74.00	-30.33	Horizontal
7311.00	28.15	36.37	11.71	26.71	49.52	74.00	-24.48	Horizontal
9748.00	27.73	38.27	14.25	25.38	54.87	74.00	-19.13	Horizontal
12185.00	*					74.00		Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	20.13	31.85	8.66	24.12	36.52	54.00	-17.48	Vertical
7311.00	20.16	36.37	11.71	26.71	41.53	54.00	-12.47	Vertical
9748.00	21.35	38.27	14.25	25.38	48.49	54.00	-5.51	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	22.06	31.85	8.66	24.10	38.47	54.00	-15.53	Horizontal
7311.00	21.75	36.37	11.71	26.71	43.12	54.00	-10.88	Horizontal
9748.00	16.33	38.27	14.25	25.38	43.47	54.00	-10.53	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	28.99	31.89	8.70	24.05	45.53	74.00	-28.47	Vertical
7386.00	29.36	36.49	11.76	26.90	50.71	74.00	-23.29	Vertical
9848.00	27.95	38.62	14.31	25.30	55.58	74.00	-18.42	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	27.70	31.89	8.70	24.05	44.24	74.00	-29.76	Horizontal
7386.00	28.07	36.49	11.76	26.90	49.42	74.00	-24.58	Horizontal
9848.00	27.41	38.62	14.31	25.30	55.04	74.00	-18.96	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	19.54	31.89	8.70	24.05	36.08	54.00	-17.92	Vertical
7386.00	20.34	36.49	11.76	26.90	41.69	54.00	-12.31	Vertical
9848.00	18.67	38.62	14.31	25.30	46.30	54.00	-7.70	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	22.10	31.89	8.70	24.05	38.64	54.00	-15.36	Horizontal
7386.00	21.27	36.49	11.76	26.90	42.62	54.00	-11.38	Horizontal
9848.00	15.11	38.62	14.31	25.30	42.74	54.00	-11.26	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Pass/Fail:

Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.82	31.79	8.61	24.17	45.05	74.00	-28.95	Vertical
7236.00	28.47	36.19	11.68	26.52	49.82	74.00	-24.18	Vertical
9648.00	30.96	38.07	14.16	25.44	57.75	74.00	-16.25	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	28.23	31.81	8.62	24.17	44.49	74.00	-29.51	Horizontal
7236.00	29.50	36.19	11.68	26.52	50.85	74.00	-23.15	Horizontal
9648.00	28.17	38.07	14.16	25.44	54.96	74.00	-19.04	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	24.22	31.79	8.61	24.17	40.45	54.00	-13.55	Vertical
7236.00	22.07	36.19	11.68	26.52	43.42	54.00	-10.58	Vertical
9648.00	16.46	38.07	14.16	25.44	43.25	54.00	-10.75	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	24.03	31.81	8.62	24.17	40.29	54.00	-13.71	Horizontal
7236.00	22.80	36.19	11.68	26.52	44.15	54.00	-9.85	Horizontal
9648.00	16.97	38.07	14.16	25.44	43.76	54.00	-10.24	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.35	31.79	8.61	24.17	45.58	74.00	-28.42	Vertical
7311.00	27.71	36.37	11.71	26.71	49.08	74.00	-24.92	Vertical
9748.00	28.16	38.27	14.25	25.38	55.30	74.00	-18.70	Vertical
12185.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4874.00	30.35	31.85	8.66	24.10	46.76	74.00	-27.24	Horizontal
7311.00	28.39	36.37	11.71	26.71	49.76	74.00	-24.24	Horizontal
9748.00	27.75	38.27	14.25	25.38	54.89	74.00	-19.11	Horizontal
12185.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	24.65	31.79	8.61	24.17	40.88	54.00	-13.12	Vertical
7311.00	21.21	36.37	11.71	26.71	42.58	54.00	-11.42	Vertical
9748.00	14.76	38.27	14.25	25.38	41.90	54.00	-12.10	Vertical
12185.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4874.00	26.25	31.85	8.66	24.10	42.66	54.00	-11.34	Horizontal
7311.00	19.99	36.37	11.71	26.71	41.36	54.00	-12.64	Horizontal
9748.00	15.65	38.27	14.25	25.38	42.79	54.00	-11.21	Horizontal
12185.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	28.07	31.85	8.66	24.12	44.46	74.00	-29.54	Vertical
7386.00	27.76	36.49	11.76	26.90	49.11	74.00	-24.89	Vertical
9848.00	27.00	38.62	14.31	25.30	54.63	74.00	-19.37	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	29.07	31.89	8.70	24.05	45.61	74.00	-28.39	Horizontal
7386.00	29.62	36.49	11.76	26.90	50.97	74.00	-23.03	Horizontal
9848.00	28.47	38.62	14.31	25.30	56.10	74.00	-17.90	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	23.57	31.85	8.66	24.12	39.96	54.00	-14.04	Vertical
7386.00	21.06	36.49	11.76	26.90	42.41	54.00	-11.59	Vertical
9848.00	15.10	38.62	14.31	25.30	42.73	54.00	-11.27	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	24.57	31.89	8.70	24.05	41.11	54.00	-12.89	Horizontal
7386.00	20.72	36.49	11.76	26.90	42.07	54.00	-11.93	Horizontal
9848.00	15.07	38.62	14.31	25.30	42.70	54.00	-11.30	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.17	31.81	8.62	24.17	45.43	74.00	-28.57	Vertical
7236.00	28.92	36.19	11.68	26.52	50.27	74.00	-23.73	Vertical
9648.00	29.08	38.07	14.16	25.44	55.87	74.00	-18.13	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	26.83	31.81	8.62	24.17	43.09	74.00	-30.91	Horizontal
7236.00	27.33	36.19	11.68	26.52	48.68	74.00	-25.32	Horizontal
9648.00	27.18	38.07	14.16	25.44	53.97	74.00	-20.03	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	25.07	31.81	8.62	24.17	41.33	54.00	-12.67	Vertical
7236.00	21.02	36.19	11.68	26.52	42.37	54.00	-11.63	Vertical
9648.00	16.68	38.07	14.16	25.44	43.47	54.00	-10.53	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.83	31.81	8.62	24.17	43.09	54.00	-10.91	Horizontal
7236.00	21.10	36.19	11.68	26.52	42.45	54.00	-11.55	Horizontal
9648.00	17.48	38.07	14.16	25.44	44.27	54.00	-9.73	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11n(HT20)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.30	31.85	8.66	24.10	46.71	74.00	-27.29	Vertical
7311.00	28.54	36.37	11.71	26.71	49.91	74.00	-24.09	Vertical
9748.00	28.67	38.27	14.25	25.38	55.81	74.00	-18.19	Vertical
12185.00	*					74.00		Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	28.63	31.85	8.66	24.10	45.04	74.00	-28.96	Horizontal
7311.00	27.79	36.37	11.71	26.71	49.16	74.00	-24.84	Horizontal
9748.00	28.46	38.27	14.25	25.38	55.60	74.00	-18.40	Horizontal
12185.00	*					74.00		Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	26.30	31.85	8.66	24.10	42.71	54.00	-11.29	Vertical
7311.00	21.74	36.37	11.71	26.71	43.11	54.00	-10.89	Vertical
9748.00	15.27	38.27	14.25	25.38	42.41	54.00	-11.59	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	26.14	31.85	8.66	24.10	42.55	54.00	-11.45	Horizontal
7311.00	20.36	36.37	11.71	26.71	41.73	54.00	-12.27	Horizontal
9748.00	17.68	38.27	14.25	25.38	44.82	54.00	-9.18	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	28.96	31.89	8.70	24.05	45.50	74.00	-28.50	Vertical
7386.00	28.20	36.49	11.76	26.90	49.55	74.00	-24.45	Vertical
9848.00	28.03	38.62	14.31	25.30	55.66	74.00	-18.34	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	28.29	31.89	8.70	24.05	44.83	74.00	-29.17	Horizontal
7386.00	28.08	36.49	11.76	26.90	49.43	74.00	-24.57	Horizontal
9848.00	27.79	38.62	14.31	25.30	55.42	74.00	-18.58	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	25.56	31.89	8.70	24.05	42.10	54.00	-11.90	Vertical
7386.00	21.50	36.49	11.76	26.90	42.85	54.00	-11.15	Vertical
9848.00	14.63	38.62	14.31	25.30	42.26	54.00	-11.74	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	25.47	31.89	8.70	24.05	42.01	54.00	-11.99	Horizontal
7386.00	22.54	36.49	11.76	26.90	43.89	54.00	-10.11	Horizontal
9848.00	16.87	38.62	14.31	25.30	44.50	54.00	-9.50	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.91	31.82	8.63	24.15	45.21	74.00	-28.79	Vertical
7266.00	29.98	36.28	11.69	26.58	51.37	74.00	-22.63	Vertical
9688.00	29.97	38.13	14.21	25.41	56.90	74.00	-17.10	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	28.95	31.82	8.63	24.15	45.25	74.00	-28.75	Horizontal
7266.00	29.79	36.28	11.69	26.58	51.18	74.00	-22.82	Horizontal
9688.00	30.11	38.13	14.21	25.41	57.04	74.00	-16.96	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	24.41	31.82	8.63	24.15	40.71	54.00	-13.29	Vertical
7266.00	20.28	36.28	11.69	26.58	41.67	54.00	-12.33	Vertical
9688.00	16.57	38.13	14.21	25.41	43.50	54.00	-10.50	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	24.45	31.82	8.63	24.15	40.75	54.00	-13.25	Horizontal
7266.00	20.89	36.28	11.69	26.58	42.28	54.00	-11.72	Horizontal
9688.00	16.21	38.13	14.21	25.41	43.14	54.00	-10.86	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11n(HT40)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.30	31.85	8.66	24.10	46.71	74.00	-27.29	Vertical
7311.00	28.54	36.37	11.71	26.71	49.91	74.00	-24.09	Vertical
9748.00	28.67	38.27	14.25	25.38	55.81	74.00	-18.19	Vertical
12185.00	*					74.00		Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	30.46	31.85	8.66	24.10	46.87	74.00	-27.13	Horizontal
7311.00	29.56	36.37	11.71	26.71	50.93	74.00	-23.07	Horizontal
9748.00	29.26	38.27	14.25	25.38	56.40	74.00	-17.60	Horizontal
12185.00	*					74.00		Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	26.10	31.85	8.66	24.10	42.51	54.00	-11.49	Vertical
7311.00	21.84	36.37	11.71	26.71	43.21	54.00	-10.79	Vertical
9748.00	16.97	38.27	14.25	25.38	44.11	54.00	-9.89	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	25.06	31.85	8.66	24.10	41.47	54.00	-12.53	Horizontal
7311.00	21.16	36.37	11.71	26.71	42.53	54.00	-11.47	Horizontal
9748.00	15.06	38.27	14.25	25.38	42.20	54.00	-11.80	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Test mode:		802.11n(HT40)			Test channel:		Highest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	28.15	31.88	8.68	24.08	44.63	74.00	-29.37	Vertical
7356.00	28.56	36.45	11.74	26.84	49.91	74.00	-24.09	Vertical
9808.00	28.80	38.52	14.29	25.33	56.28	74.00	-17.72	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	29.10	31.88	8.68	24.08	45.58	74.00	-28.42	Horizontal
7356.00	28.66	36.45	11.74	26.84	50.01	74.00	-23.99	Horizontal
9808.00	29.16	38.52	14.29	25.33	56.64	74.00	-17.36	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	24.55	31.88	8.68	24.08	41.03	54.00	-12.97	Vertical
7356.00	22.06	36.45	11.74	26.84	43.41	54.00	-10.59	Vertical
9808.00	15.60	38.52	14.29	25.33	43.08	54.00	-10.92	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	24.80	31.88	8.68	24.08	41.28	54.00	-12.72	Horizontal
7356.00	19.56	36.45	11.74	26.84	40.91	54.00	-13.09	Horizontal
9808.00	16.86	38.52	14.29	25.33	44.34	54.00	-9.66	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal