

FCC TEST REPORT
for
Shenzhen Lenkewi Technology Co., Ltd.

Smart VR Instruction
Model No.: G200, G300, G400, G500, G600, G700, G800, G900

Prepared for : Shenzhen Lenkewi Technology Co., Ltd.
Address : 3rd Floor, 1st Block, No.88 Fuqian Road, Guanlan Street, New
Longhua Area, Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,
Nanshan District, Shenzhen, Guangdong, China
Tel: (86) 755-26066544
Fax: (86) 755-26014772

Report Number : R011608398Z
Date of Test : Aug. 12~Nov. 30, 2016
Date of Report : Nov. 30, 2016

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TEST REPORT

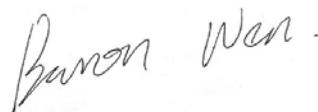
Applicant : Shenzhen Lenkewi Technology Co., Ltd.
Manufacturer : Shenzhen Lenkewi Technology Co., Ltd.
EUT : Smart VR Instruction
Model No. : G200, G300, G400, G500, G600, G700, G800, G900
Serial No. : N.A.
Trade Mark : N.A.
Rating : DC 5V, 2000mA Via Adapter (Input: AC 100-240V, 50/60Hz, 0.5A,
Output: DC 5V, 2000mA)
DC 3.7V, 2500mAh Via Battery *2

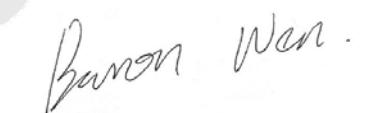
Measurement Procedure Used:
FCC Part15 Subpart C 2016, Paragraph 15.247

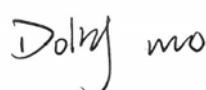
The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen 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.

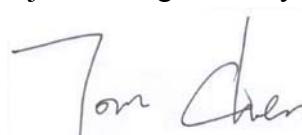
This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : Aug. 12~Nov. 30, 2016



Prepared by : (Tested Engineer / Baron Wen)


Reviewer : (Project Manager / Dolly Mo)


Approved & Authorized Signer : (Manager / Tom Chen)


1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: Smart VR Instruction
Model Number	: G200, G300, G400, G500, G600, G700, G800, G900 (Note: All samples are the same except the model number and colour, so we prepare "G200" for test only.)
Test Power Supply	: AC 120V, 60Hz for adapter/ AC 240V, 60Hz for adapter
RF Transmission Frequency	: WiFi: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) BT4.0: 2402~2480MHz
Channels	: WiFi: 11 For (802.11b/802.11g/802.11n(HT20)) BT4.0: 40
Modulation	: WiFi: 802.11b CCK; 802.11g OFDM; 802.11n MCS BT4.0: GFSK
Antenna Gain:	: 2dBi
Applicant Address	: Shenzhen Lenkewi Technology Co., Ltd. : 3rd Floor, 1st Block, No.88 Fuqian Road, Guanlan Street, New Longhua Area, Shenzhen, China
Manufacturer Address	: Shenzhen Lenkewi Technology Co., Ltd. : 3rd Floor, 1st Block, No.88 Fuqian Road, Guanlan Street, New Longhua Area, Shenzhen, China
Factory Address	: Shenzhen Lenkewi Technology Co., Ltd. : 3rd Floor, 1st Block, No.88 Fuqian Road, Guanlan Street, New Longhua Area, Shenzhen, China
Date of receipt	: Aug. 12, 2016
Date of Test	: Aug. 12~Nov. 30, 2016
Note	: This report is for WiFi module

1.2. Auxiliary Equipment Used during Test

Adapter : Manufacturer: Samsung
M/N: ETA-U90CBC
S/N: RT6FB17ZS/B-E
Input: AC 100-240V, 50-60Hz, 0.35A
Output: DC 5V, 2A

1.3. Description of Test Facility

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

FCC-Registration No.: 752021

Shenzhen 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, July 06, 2016.

IC-Registration No.: 8058A-1

Shenzhen 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, June 13, 2016.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)
Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC Part 15, Paragraph 15.247.

2.1. 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)	Maximum 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

2.2. 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 1 Mbps lowest data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6 Mbps lowest 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 MCS 0 Mbps lowest data rate (the worst case) are chosen for the final testing.

2.3. List of channels:

√ - available

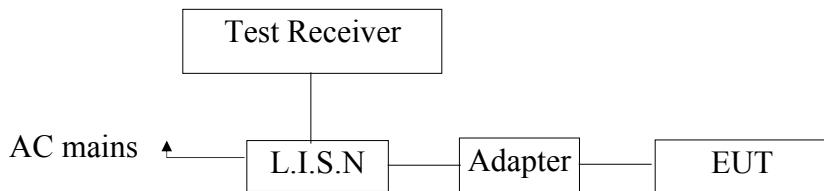
X - tested

Number	Frequency(MHz)		802.11 b/g/n (HT20)	802.11 b/g/n (HT40)
1	2412	√	X	
2	2417	√		
3	2422	√		
4	2427	√		
5	2432	√		
6	2437	√	X	
7	2442	√		
8	2447	√		
9	2452	√		
10	2457	√		
11	2462	√	X	

3. Conducted Emission Test

3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



3.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency MHz	Limits dB(μ V)	
	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.

3.3. 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.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (Charging) and measure it.

3.5. 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 C63.10-2013 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 3.6.

3.6. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Two-Line V-network	Rohde & Schwarz	ENV216	100055	Jul. 19, 2016	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jun. 17, 2016	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Jun. 17, 2016	1 Year

3.7. Power Line Conducted Emission Measurement Results

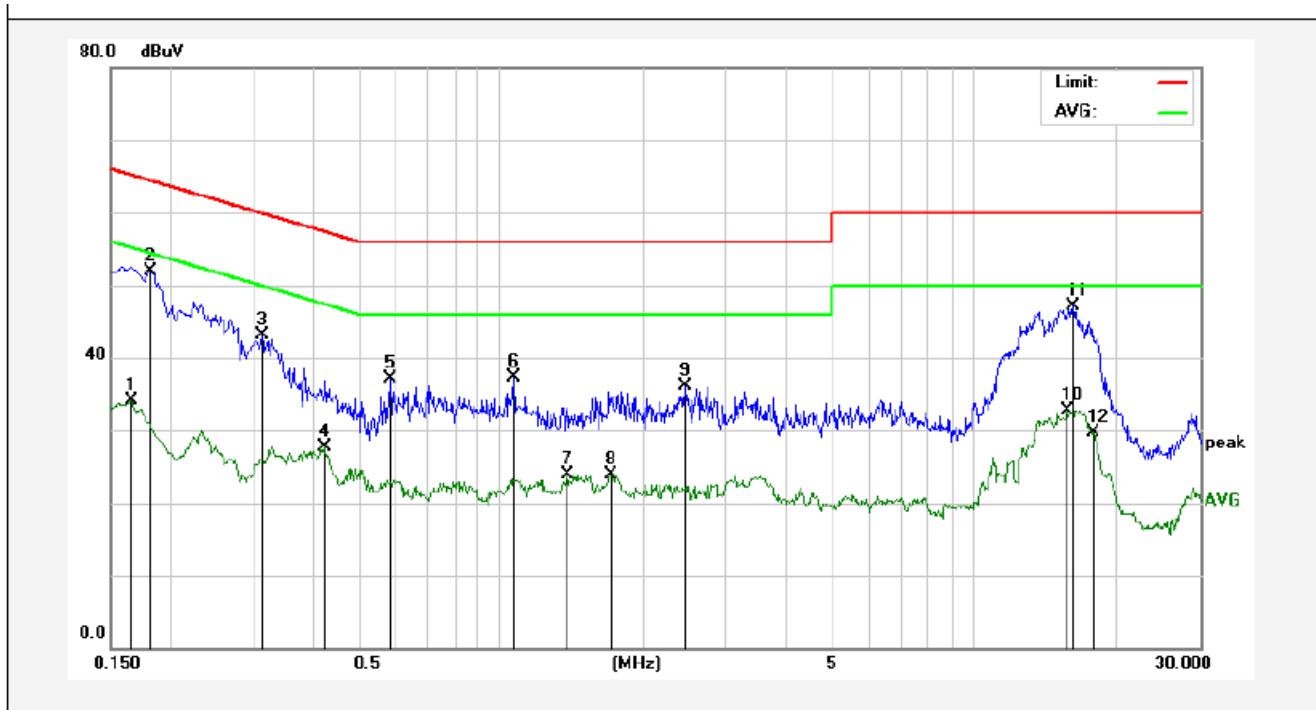
PASS.

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

Please refer the following pages.

CONDUCTED EMISSION TEST DATA

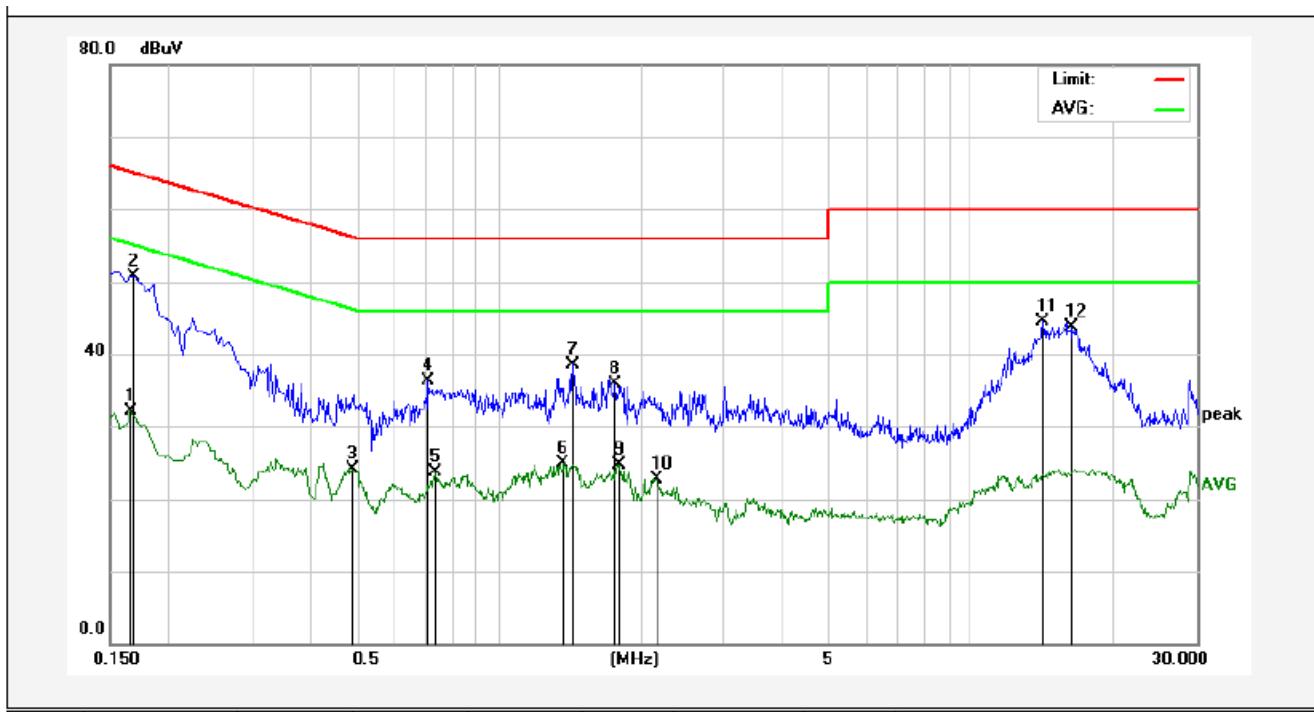
Test Site: 1# Shielded Room
 Operating Condition: Charging
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1660	14.28	19.90	34.18	55.15	-20.97	AVG	
2	0.1819	32.10	19.90	52.00	64.39	-12.39	QP	
3	0.3140	23.15	19.90	43.05	59.86	-16.81	QP	
4	0.4237	7.66	19.95	27.61	47.37	-19.76	AVG	
5	0.5856	17.08	20.01	37.09	56.00	-18.91	QP	
6	1.0700	17.24	20.12	37.36	56.00	-18.64	QP	
7	1.3855	3.84	20.13	23.97	46.00	-22.03	AVG	
8	1.7137	3.77	20.13	23.90	46.00	-22.10	AVG	
9	2.4539	15.93	20.15	36.08	56.00	-19.92	QP	
10	15.7499	12.52	20.27	32.79	50.00	-17.21	AVG	
11	16.1899	26.91	20.28	47.19	60.00	-12.81	QP	
12	17.8934	9.47	20.31	29.78	50.00	-20.22	AVG	

CONDUCTED EMISSION TEST DATA

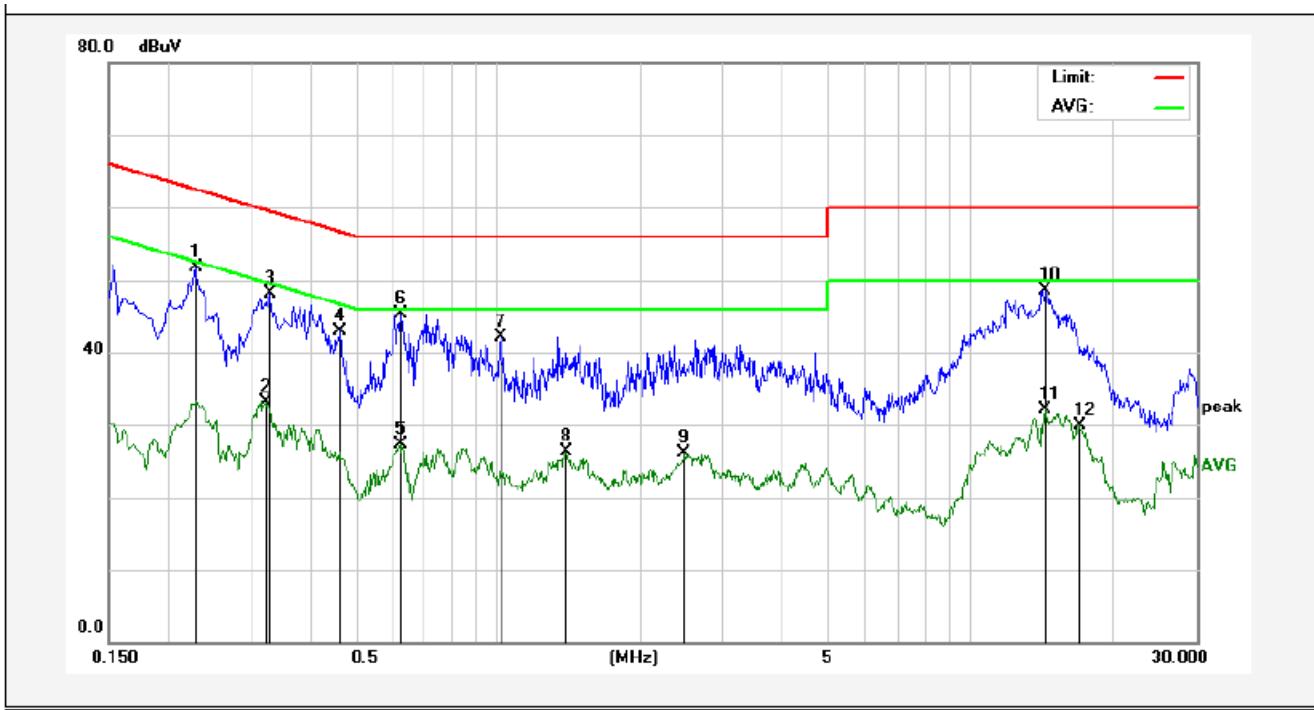
Test Site: 1# Shielded Room
 Operating Condition: Charging
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1660	12.11	19.90	32.01	55.15	-23.14	AVG	
2	0.1685	30.72	19.90	50.62	65.03	-14.41	QP	
3	0.4899	4.21	19.98	24.19	46.17	-21.98	AVG	
4	0.7096	16.24	20.04	36.28	56.00	-19.72	QP	
5	0.7338	3.65	20.05	23.70	46.00	-22.30	AVG	
6	1.3700	4.77	20.13	24.90	46.00	-21.10	AVG	
7	1.4336	18.47	20.13	38.60	56.00	-17.40	QP	
8	1.7660	15.70	20.14	35.84	56.00	-20.16	QP	
9	1.7940	4.62	20.14	24.76	46.00	-21.24	AVG	
10	2.1659	2.65	20.14	22.79	46.00	-23.21	AVG	
11	14.1417	24.15	20.27	44.42	60.00	-15.58	QP	
12	16.2419	23.44	20.28	43.72	60.00	-16.28	QP	

CONDUCTED EMISSION TEST DATA

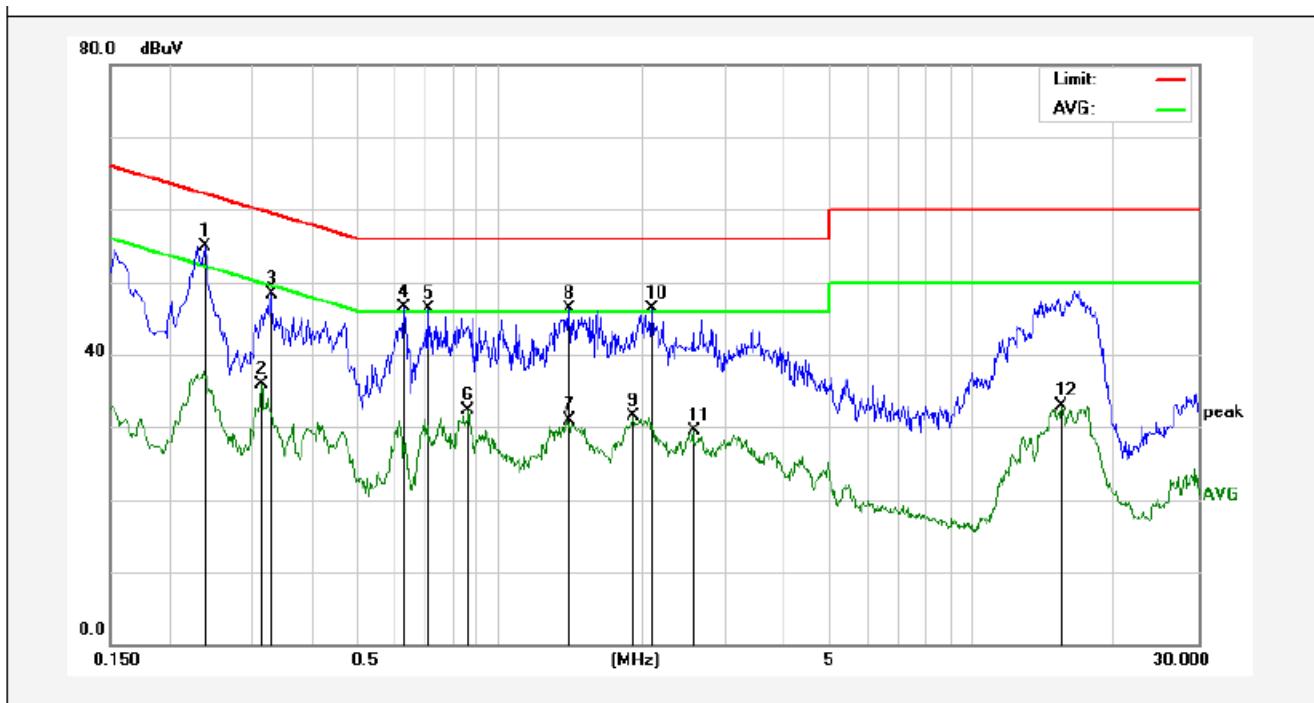
Test Site: 1# Shielded Room
 Operating Condition: Charging
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2300	31.89	19.89	51.78	62.45	-10.67	QP	
2	0.3220	13.29	19.90	33.19	49.65	-16.46	AVG	
3	0.3300	28.21	19.90	48.11	59.45	-11.34	QP	
4	0.4660	23.01	19.96	42.97	56.58	-13.61	QP	
5	0.6219	7.30	20.02	27.32	46.00	-18.68	AVG	
6	0.6260	25.27	20.02	45.29	56.00	-10.71	QP	
7	1.0140	22.07	20.12	42.19	56.00	-13.81	QP	
8	1.3895	6.15	20.13	26.28	46.00	-19.72	AVG	
9	2.4780	5.86	20.15	26.01	46.00	-19.99	AVG	
10	14.3139	28.17	20.27	48.44	60.00	-11.56	QP	
11	14.4219	11.83	20.27	32.10	50.00	-17.90	AVG	
12	16.9375	9.61	20.29	29.90	50.00	-20.10	AVG	

CONDUCTED EMISSION TEST DATA

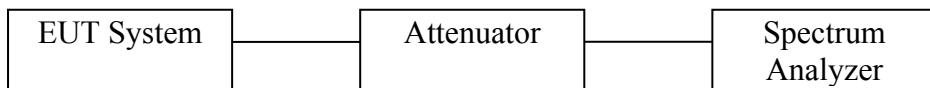
Test Site: 1# Shielded Room
 Operating Condition: Charging
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2379	34.94	19.89	54.83	62.17	-7.34	QP	
2	0.3140	15.93	19.90	35.83	49.86	-14.03	Avg	
3	0.3300	28.45	19.90	48.35	59.45	-11.10	QP	
4	0.6300	26.46	20.02	46.48	56.00	-9.52	QP	
5	0.7056	26.33	20.04	46.37	56.00	-9.63	QP	
6	0.8578	12.26	20.08	32.34	46.00	-13.66	Avg	
7	1.4015	10.68	20.13	30.81	46.00	-15.19	Avg	
8	1.4056	26.12	20.13	46.25	56.00	-9.75	QP	
9	1.9216	11.31	20.14	31.45	46.00	-14.55	Avg	
10	2.1018	26.21	20.14	46.35	56.00	-9.65	QP	
11	2.5698	9.44	20.15	29.59	46.00	-16.41	Avg	
12	15.4618	12.70	20.27	32.97	50.00	-17.03	Avg	

4. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

4.1 Test Setup



4.2 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 = 100kHz, VBW \geq 3*RBW =300kHz,
Detector= Peak
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

20dB Bandwidth:

C63.10

Occupied Bandwidth (OBW=20dB Bandwidth)

1. Set RBW=1%~5% OBW
2. Set the VBW \geq 3*RBW
3. Set the span range between 2 times and 5 times of the OBW
4. Sweep Time= Auto
Detector= Peak
Trace= Max hold
5. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst case (i.e. the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the -20dB levels with respect to the reference level.

c. Test Setup See 4.1

d. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Jul. 12, 2016	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Jun. 17, 2016	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Jun. 17, 2016	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	May 06, 2016	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 06, 2016	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Jun. 17, 2016	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8	Power Sensor	Agilent	KFSW150 502	15I00041SN0 45	Jun. 17, 2016	1 Year
9	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun. 17, 2016	1 Year
10	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun. 17, 2016	1 Year
11	Signal Generator	Agilent	E4421B	MY41000743	Jun. 17, 2016	1 Year
12	DC Power supply	IV	IV-8080	YQSB0096	Jun. 17, 2016	1 Year
13	TEMP&HUMI PROGRAMMABLE CHAMBER	Bell Group	BE-THK-1 50M8	SE-0137	Jun. 17, 2016	1 Year

e. Test Results

Pass.

f. Test Data**6dB Bandwidth**

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	10.03		Pass
Mid	2437	10.03	>500	Pass
High	2462	9.569		Pass

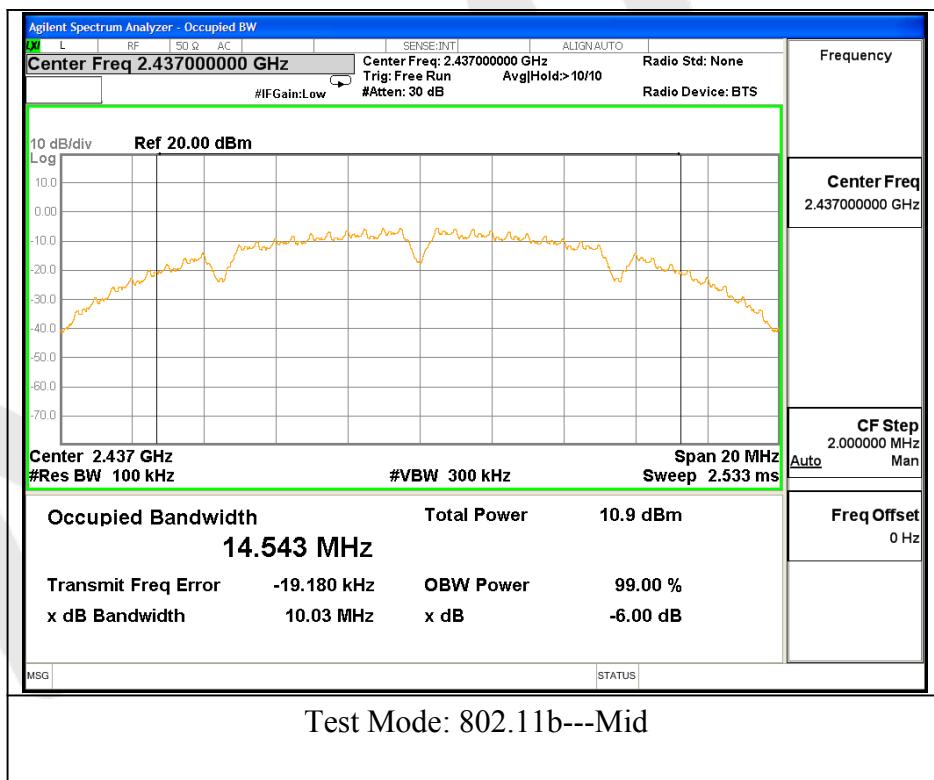
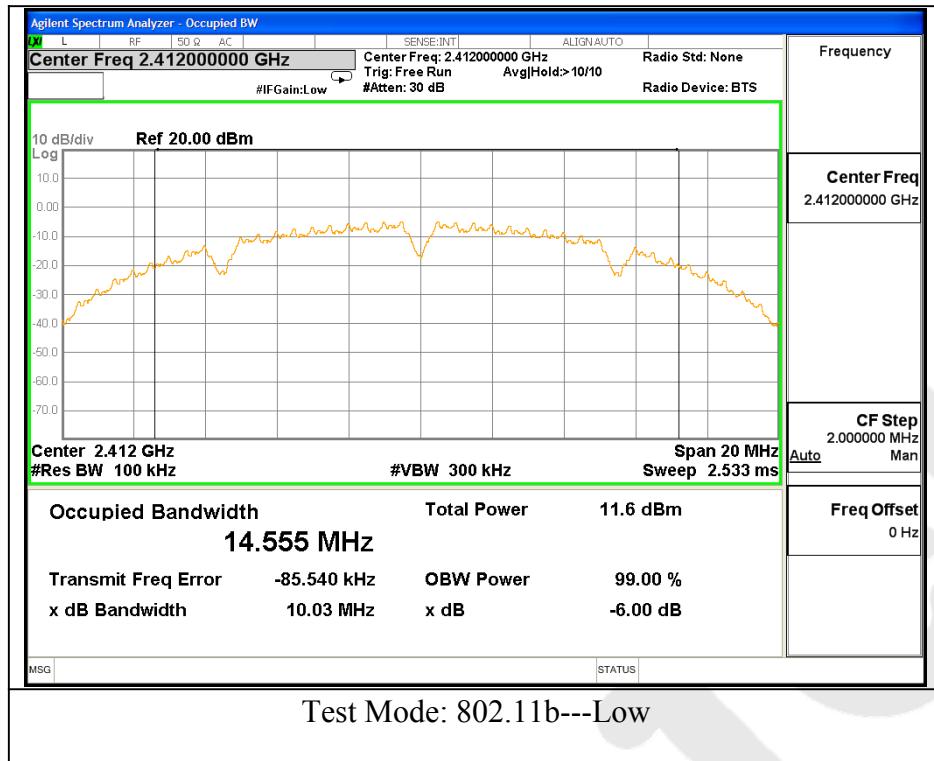
Test mode: IEEE 802.11g

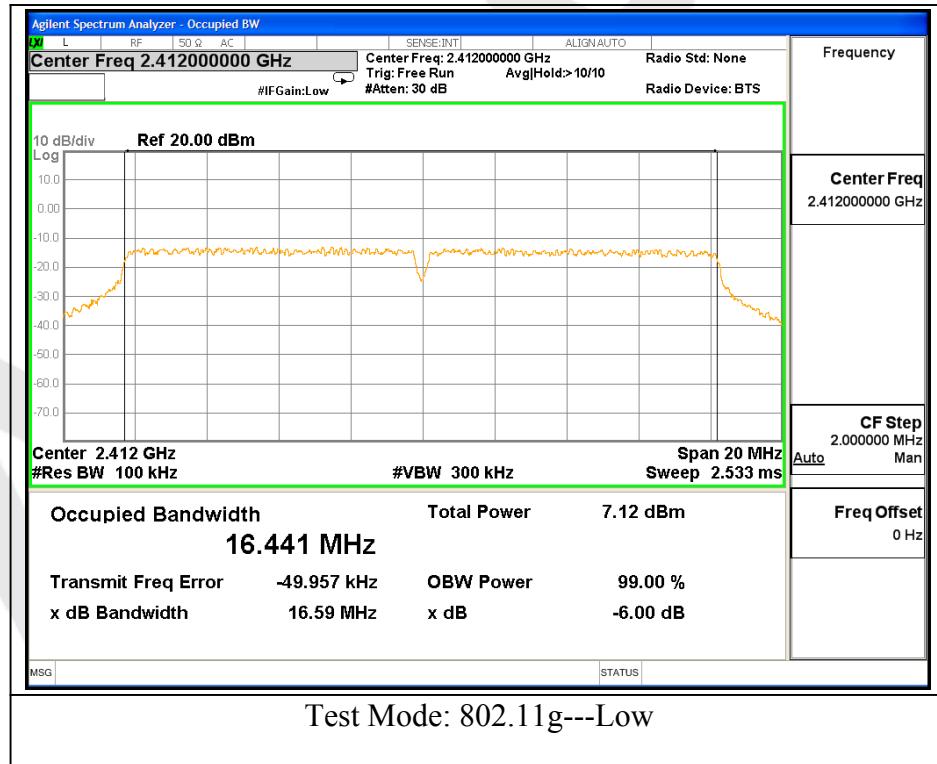
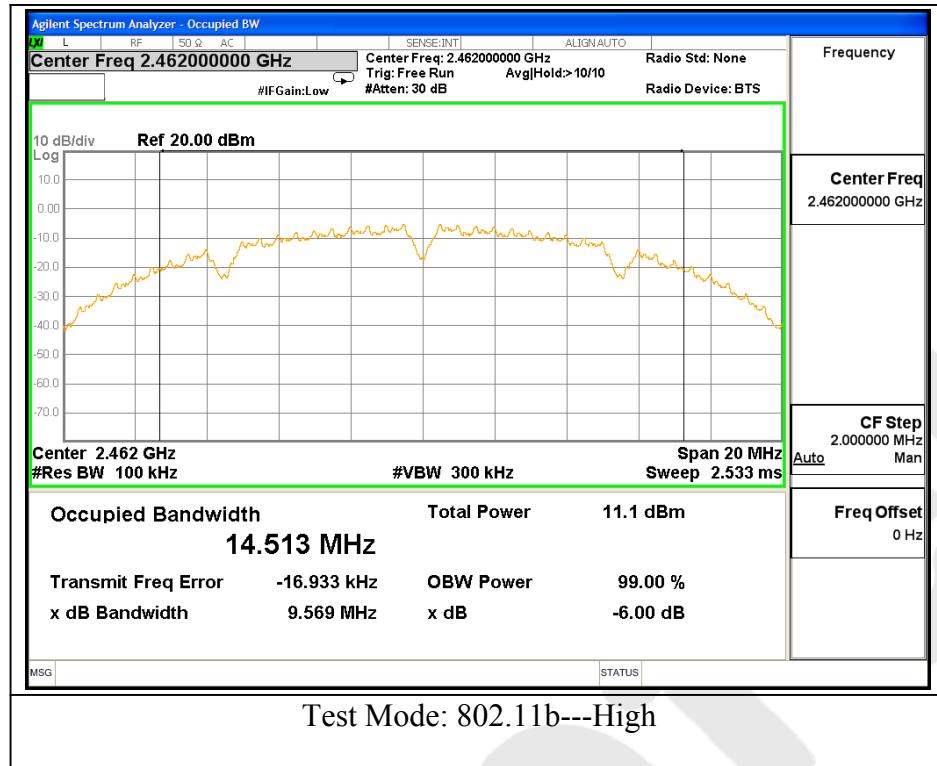
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	16.59		Pass
Mid	2437	16.36	>500	Pass
High	2462	16.08		Pass

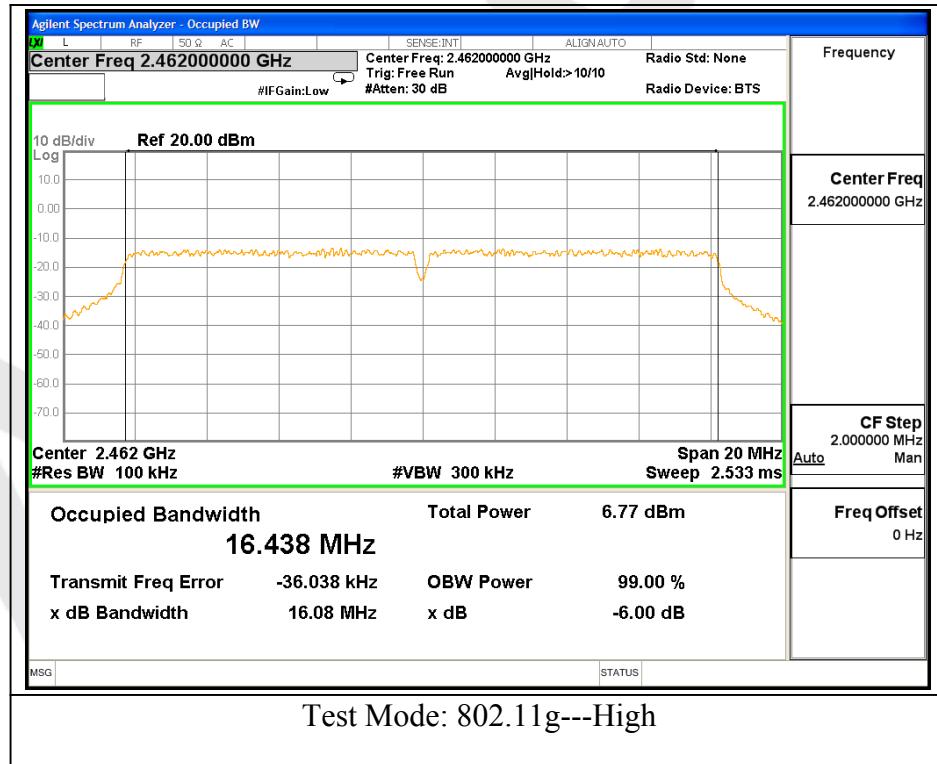
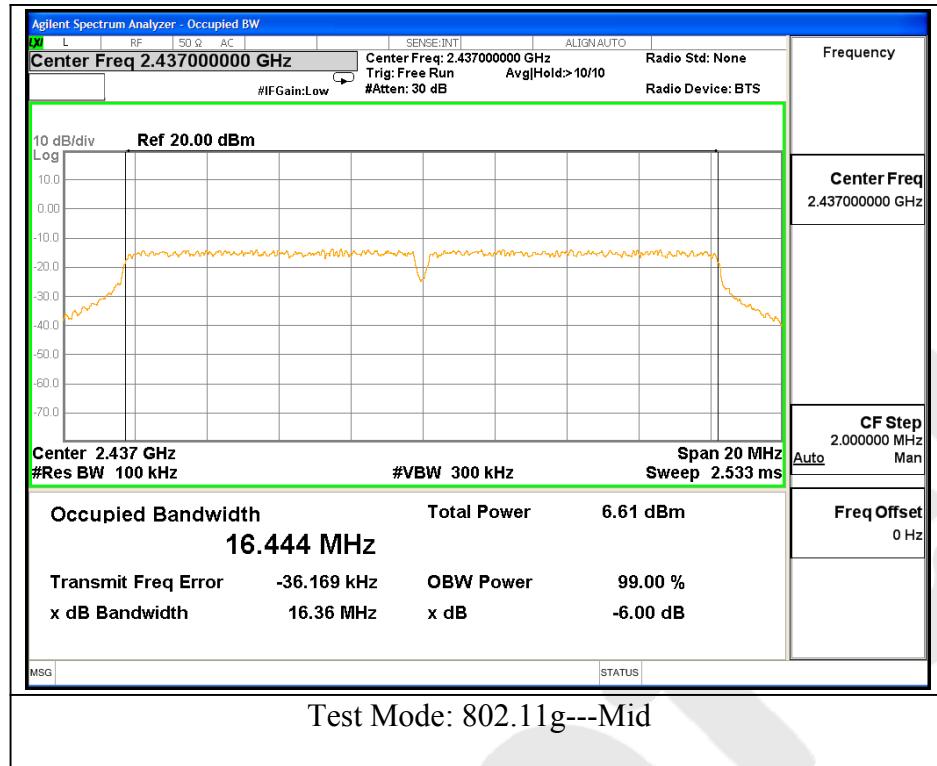
Test mode: IEEE 802.11n (HT20)

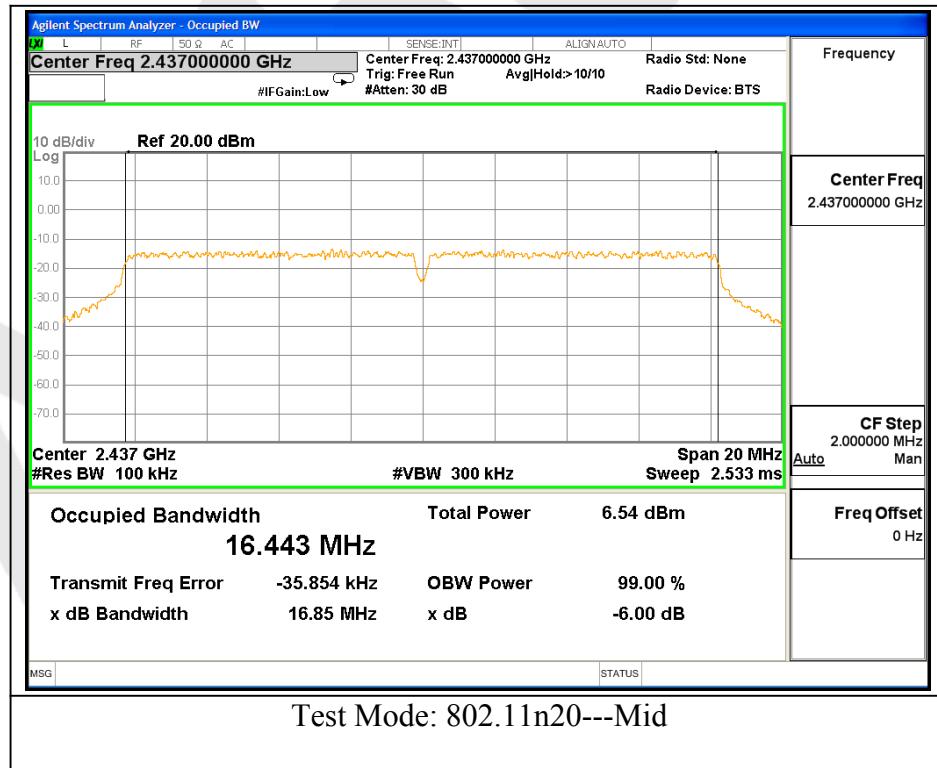
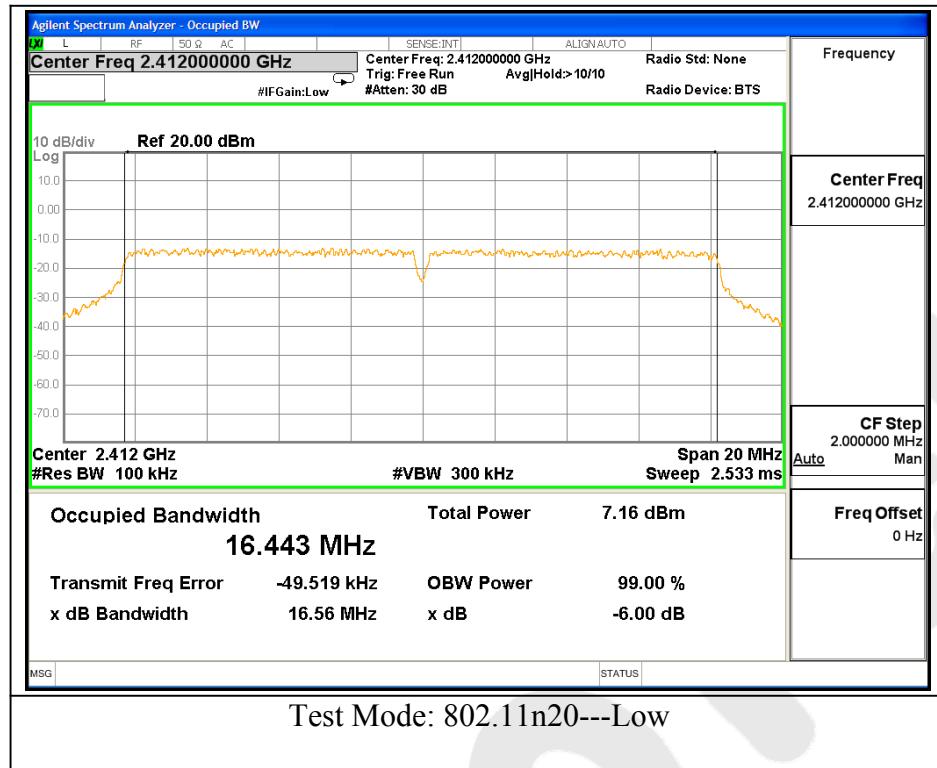
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	16.56		Pass
Mid	2437	16.85	>500	Pass
High	2462	16.96		Pass

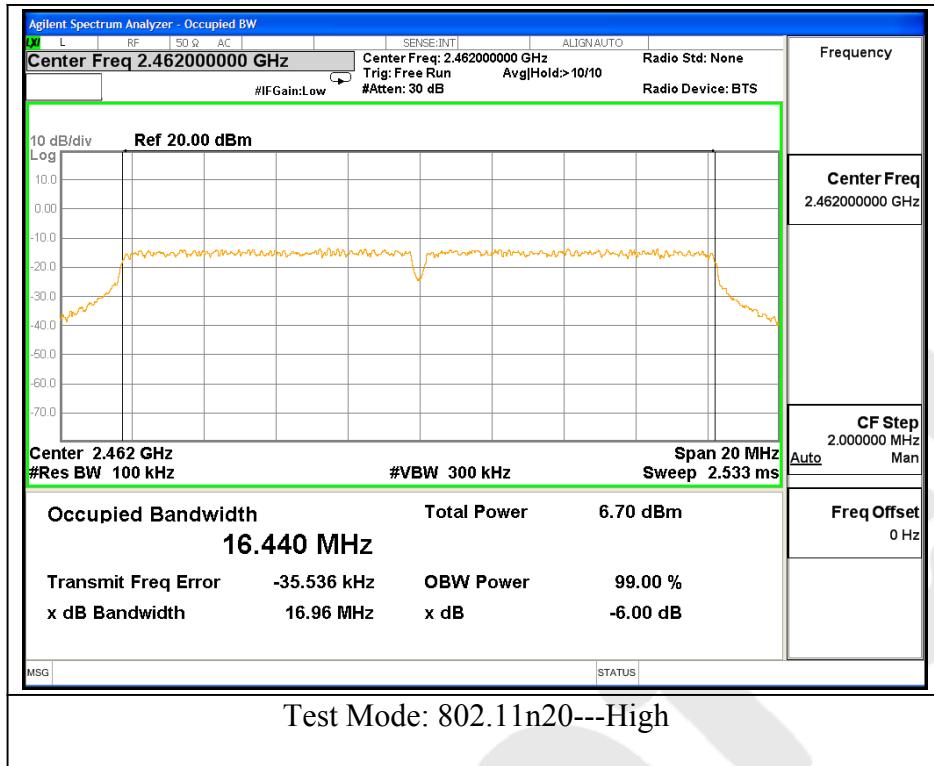
Test Plots See the following page.











20dB Bandwidth

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	2412	16.72	Pass
Mid	2437	17.03	Pass
High	2462	16.35	Pass

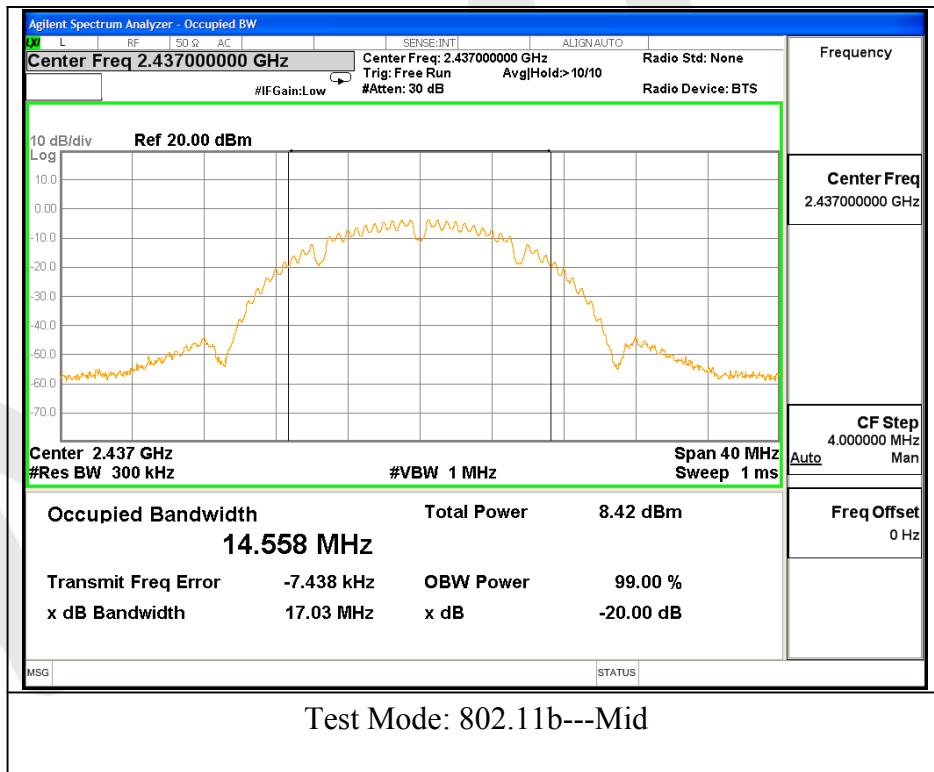
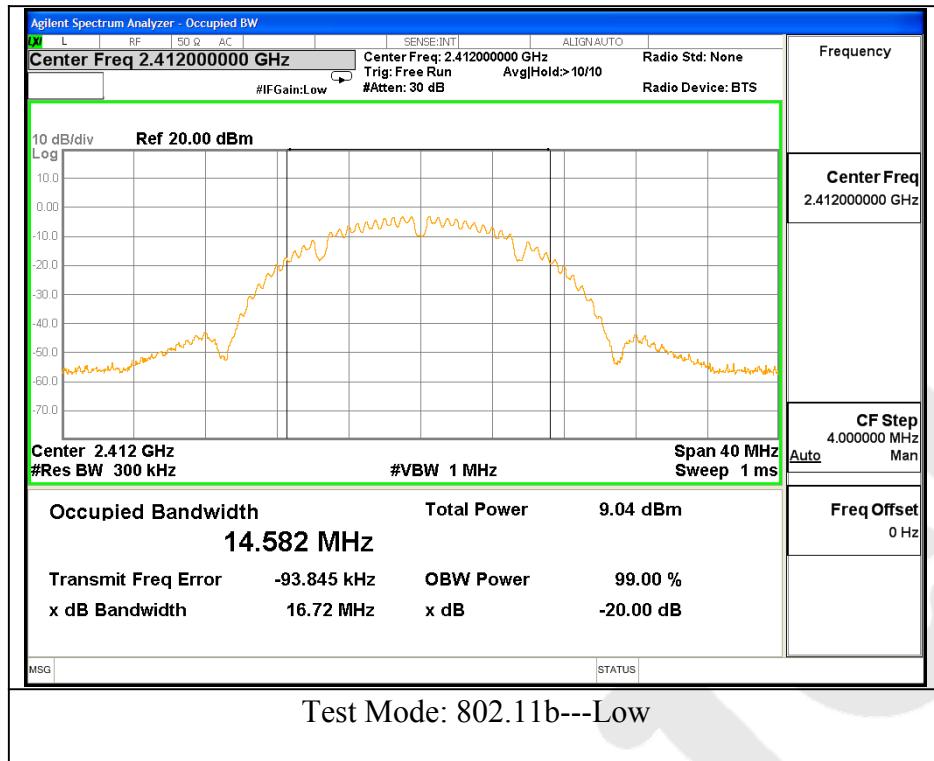
Test mode: IEEE 802.11g

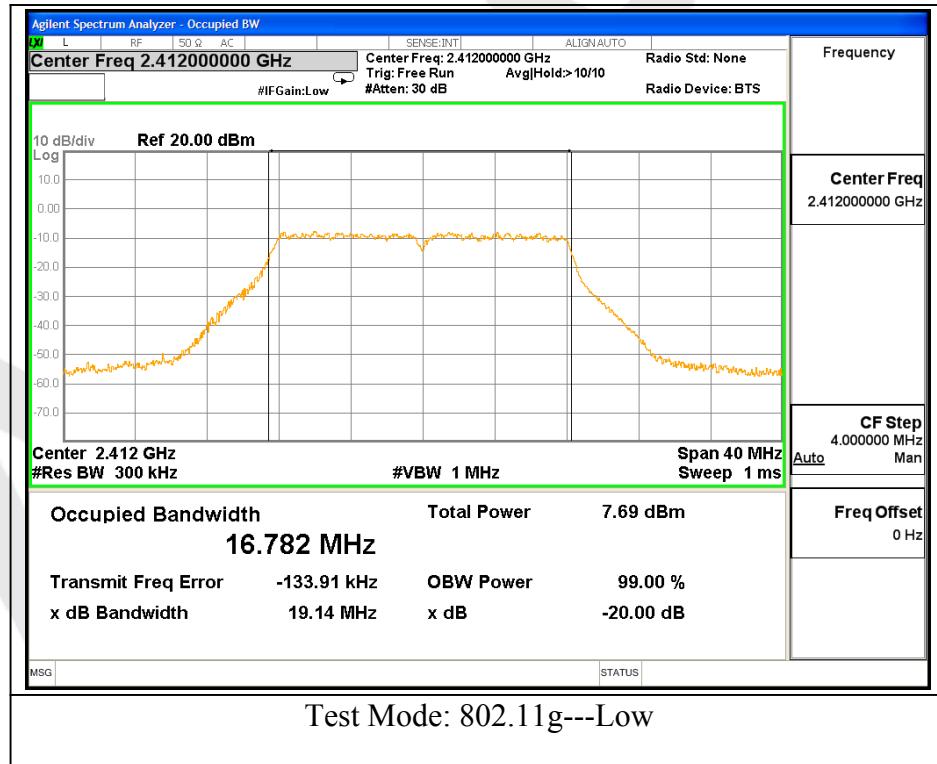
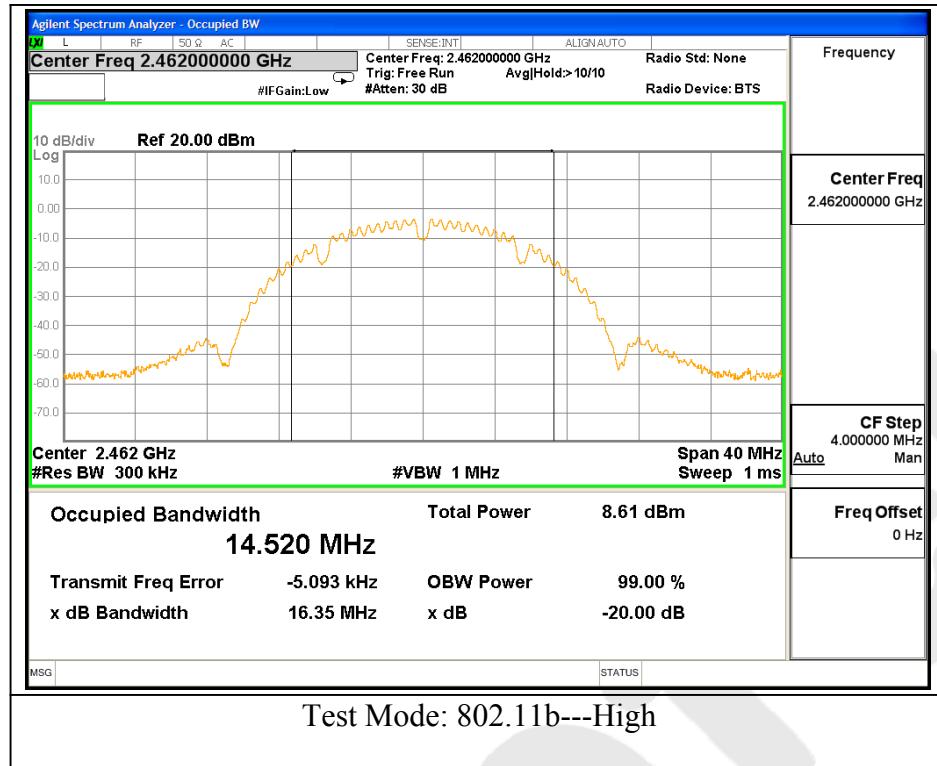
Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	2412	19.14	Pass
Mid	2437	19.17	Pass
High	2462	19.05	Pass

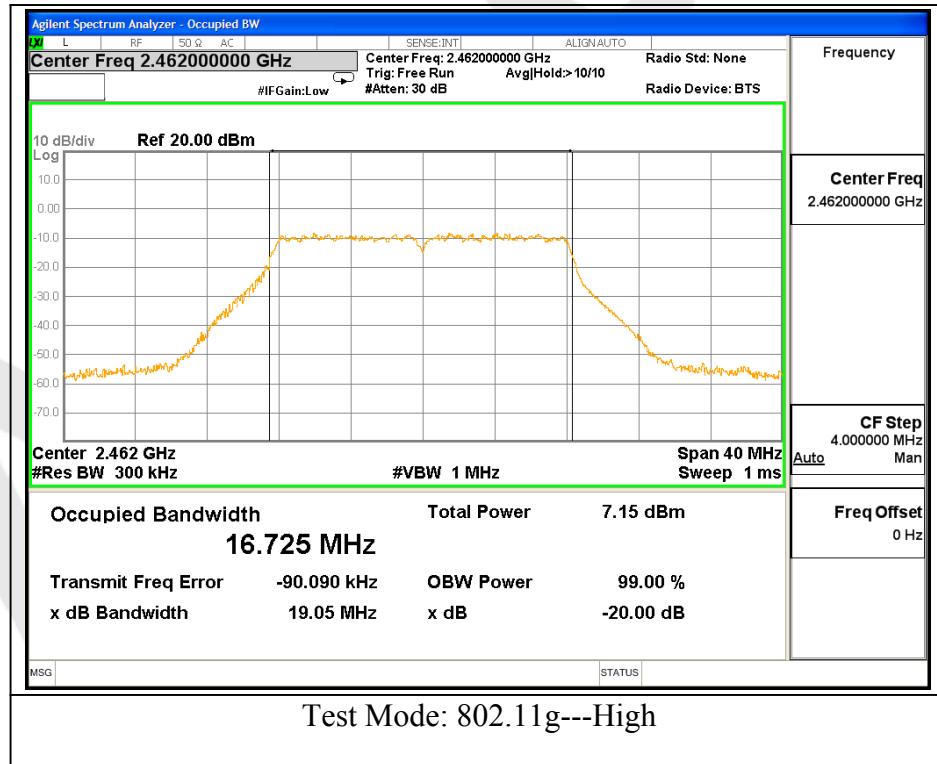
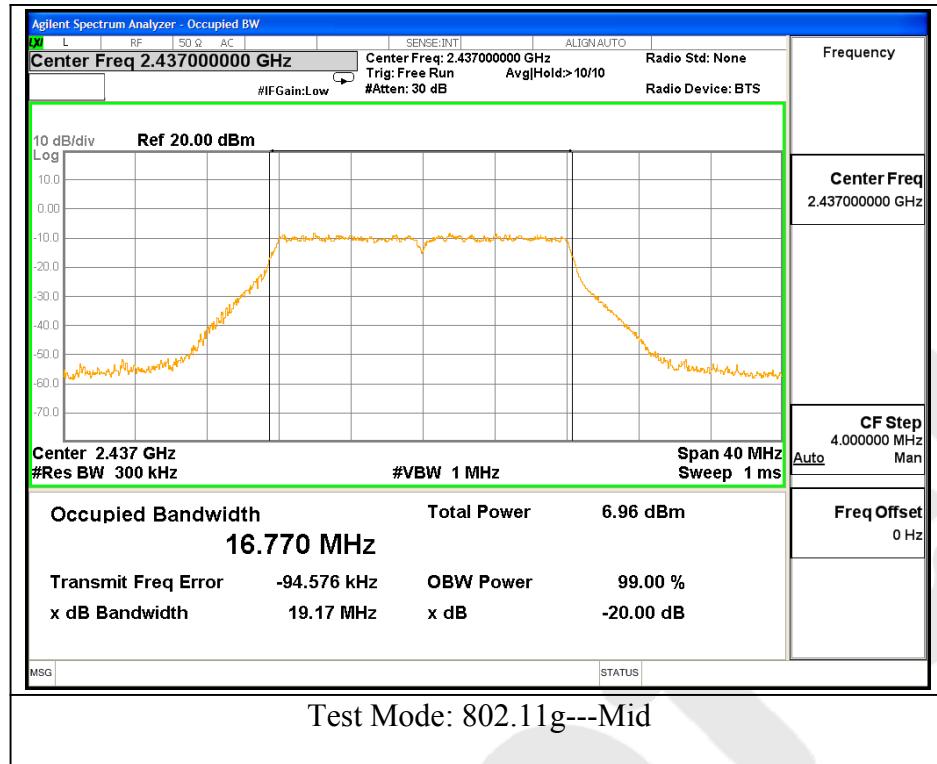
Test mode: IEEE 802.11n (HT20)

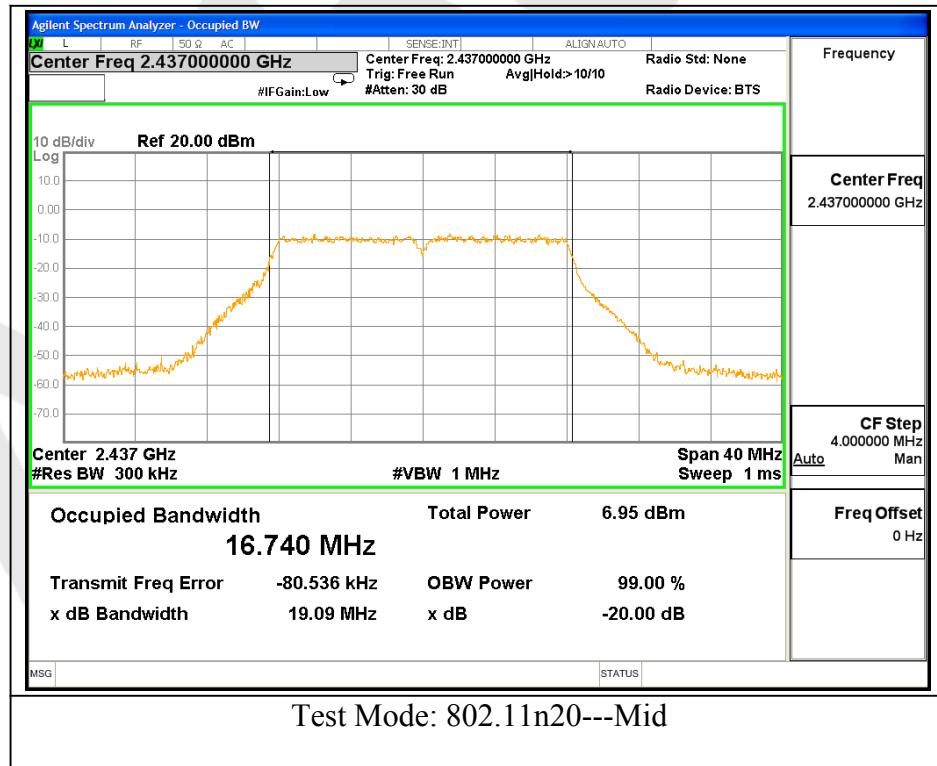
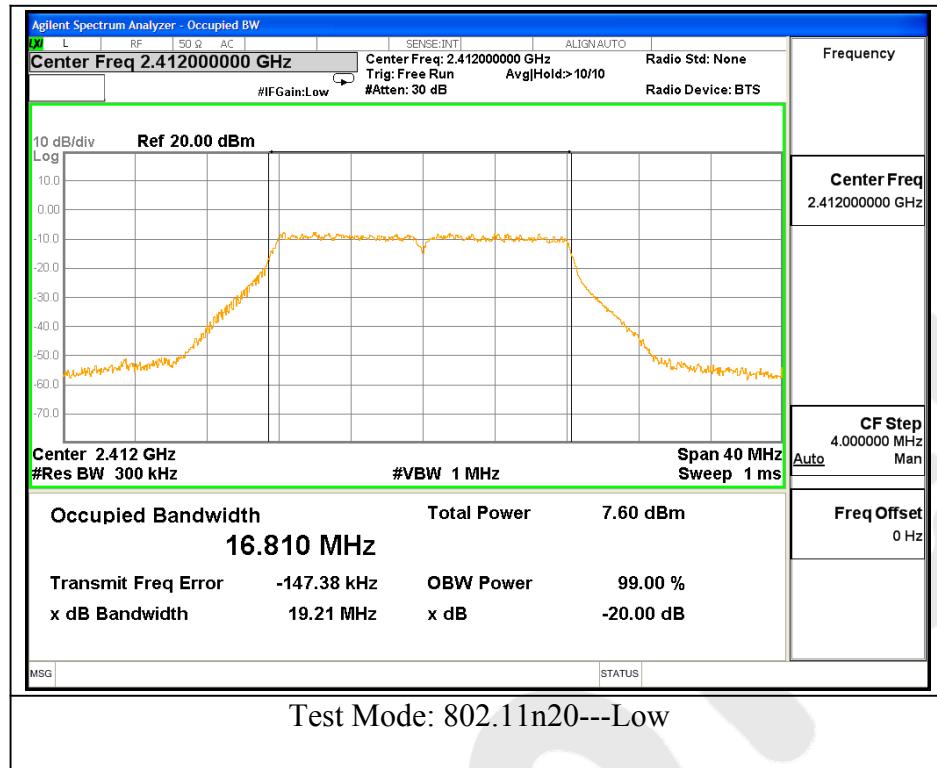
Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	2412	19.21	Pass
Mid	2437	19.09	Pass
High	2462	19.18	Pass

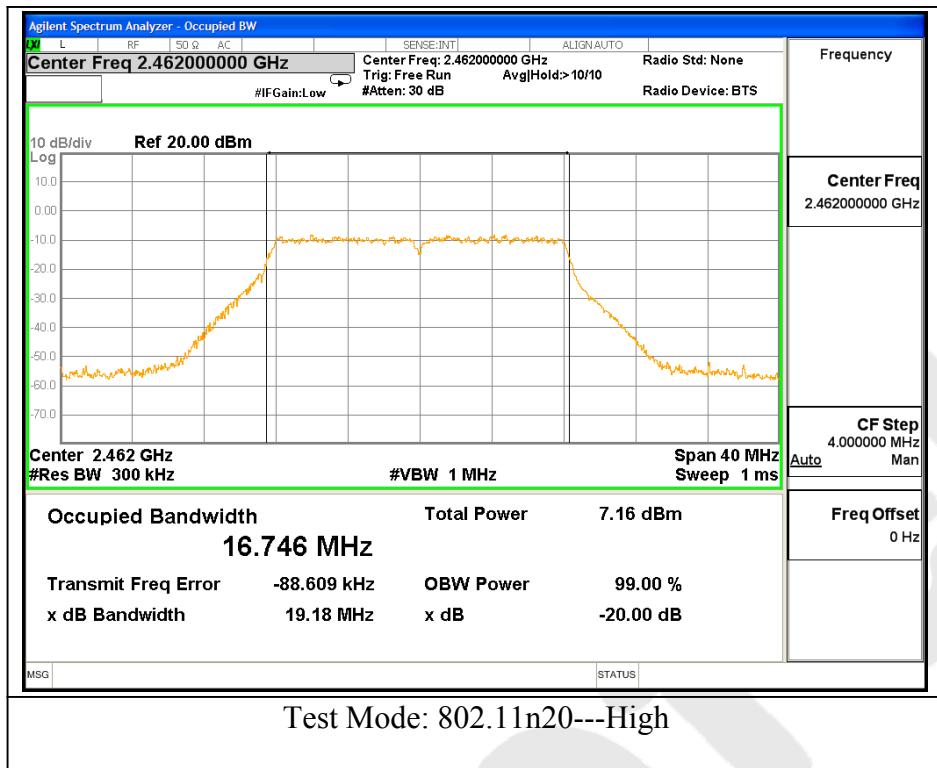
Test Plots See the following page.











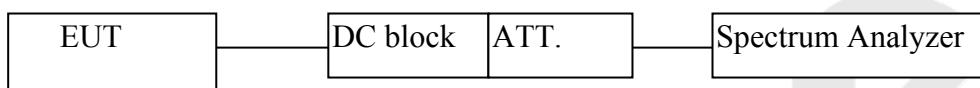
4.3. Maximum Output Power Test

a. Limit

The maximum 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 1 Mbps data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6 Mbps 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.

d. Test Procedure

This test was according the kDB 558074 D01 DTS Meas Guidance v03r05 9.1.1:

1. Set span to at least 1.5 times the OBW.
2. Set the RBW =1~5% of the OBW, not to exceed 1MHz.
3. Set VBW \geq 3*RBW.
4. Detector = Average.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

e. Test Equipment

Same as the equipment listed in 4.2.

f. Test Results

Pass.

g. Test Data

Test mode: IEEE 802.11b

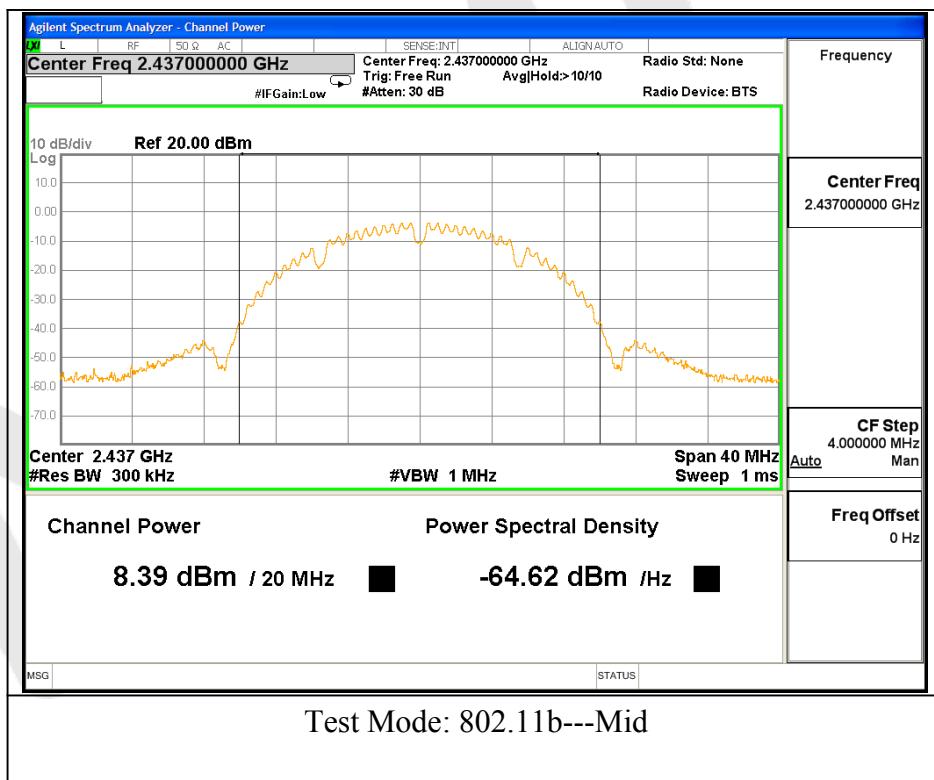
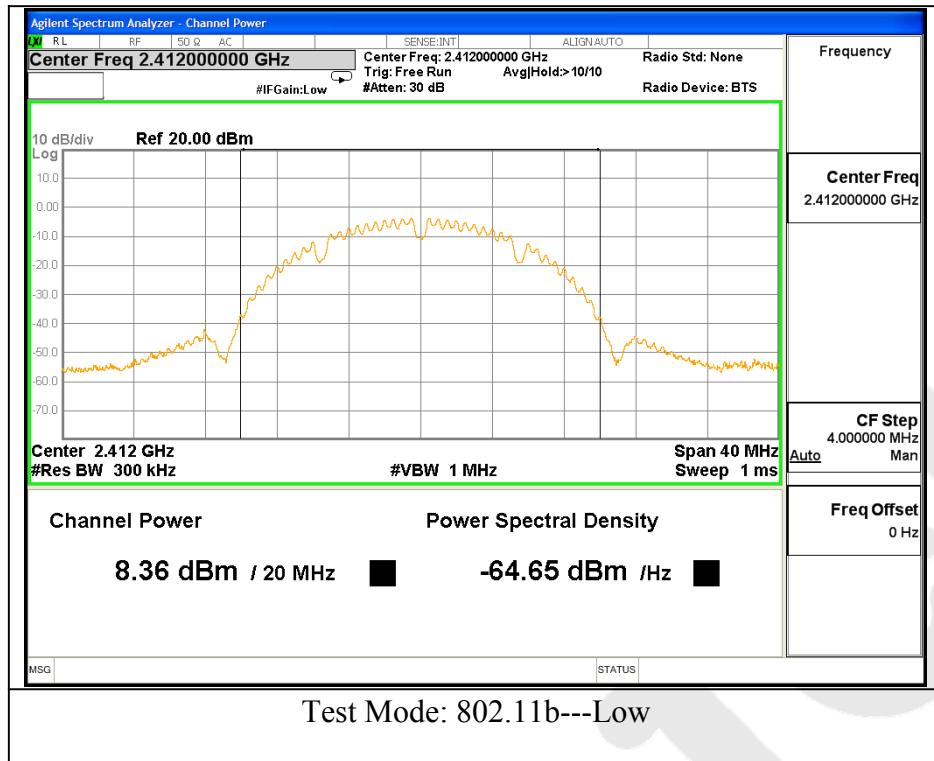
Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	8.36	30	1	Pass
Mid	2437	8.39			Pass
High	2462	8.55			Pass

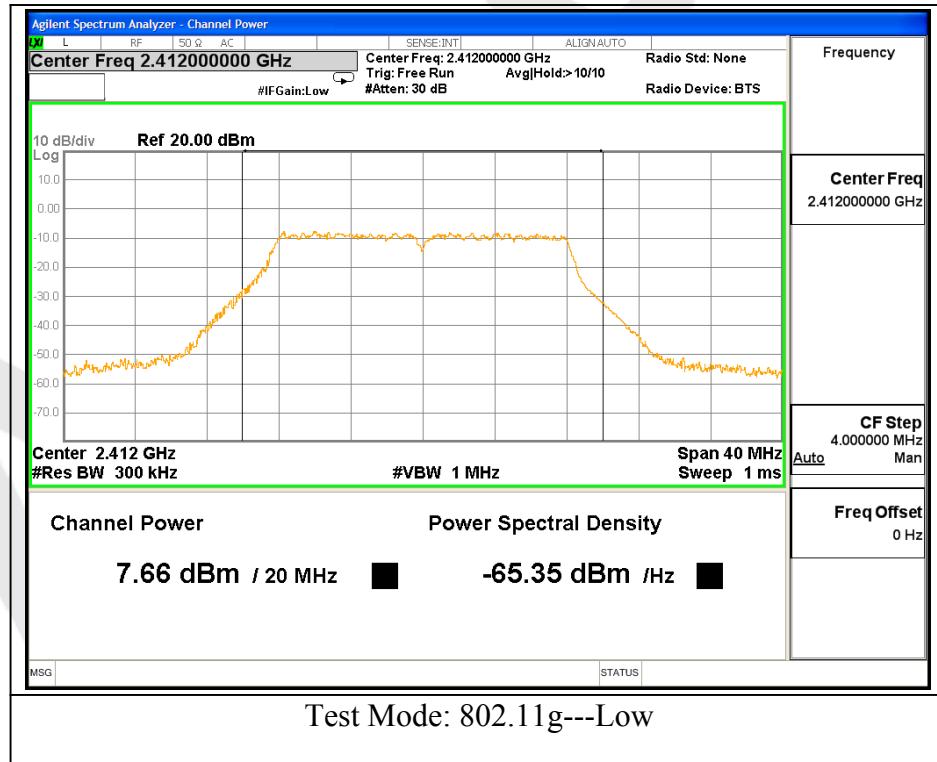
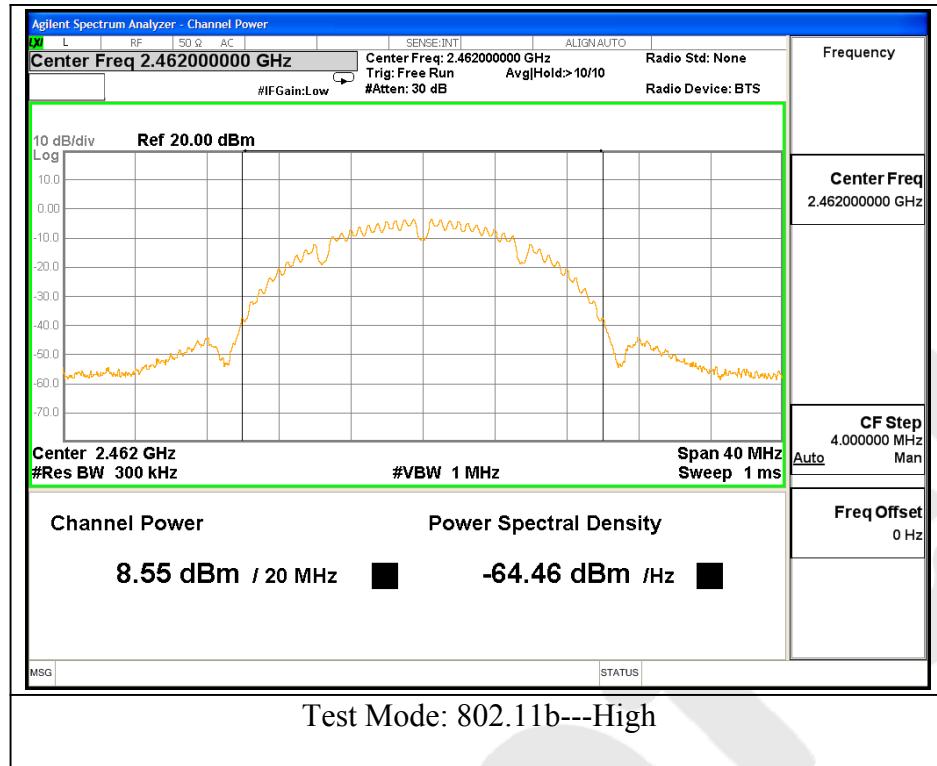
Test mode: IEEE 802.11g

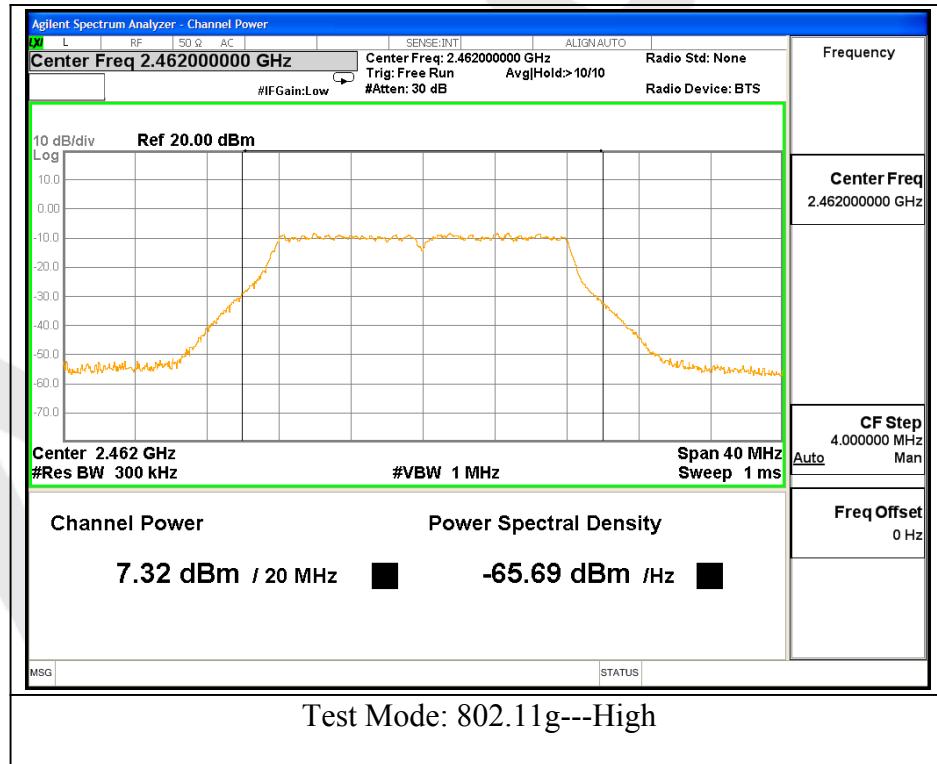
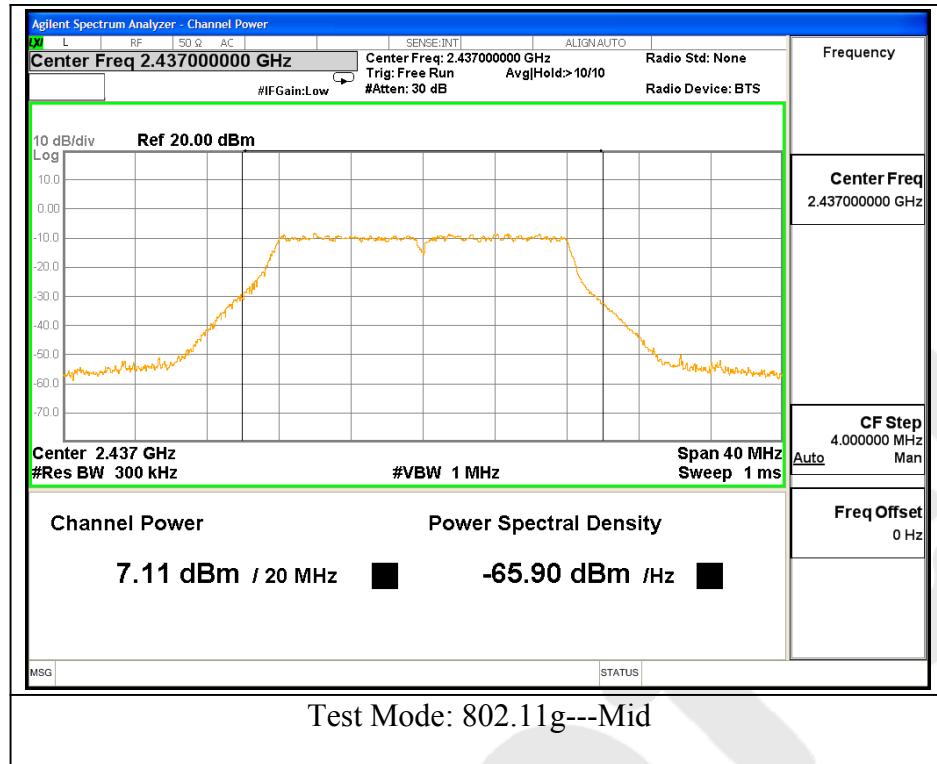
Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	7.66	30	1	Pass
Mid	2437	7.11			Pass
High	2462	7.32			Pass

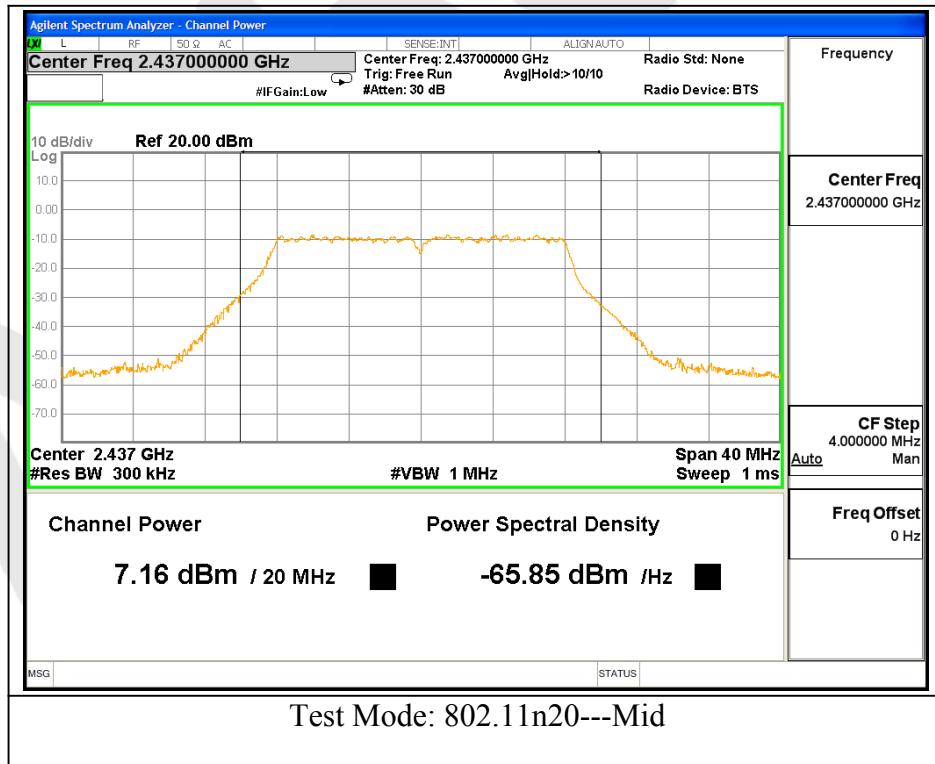
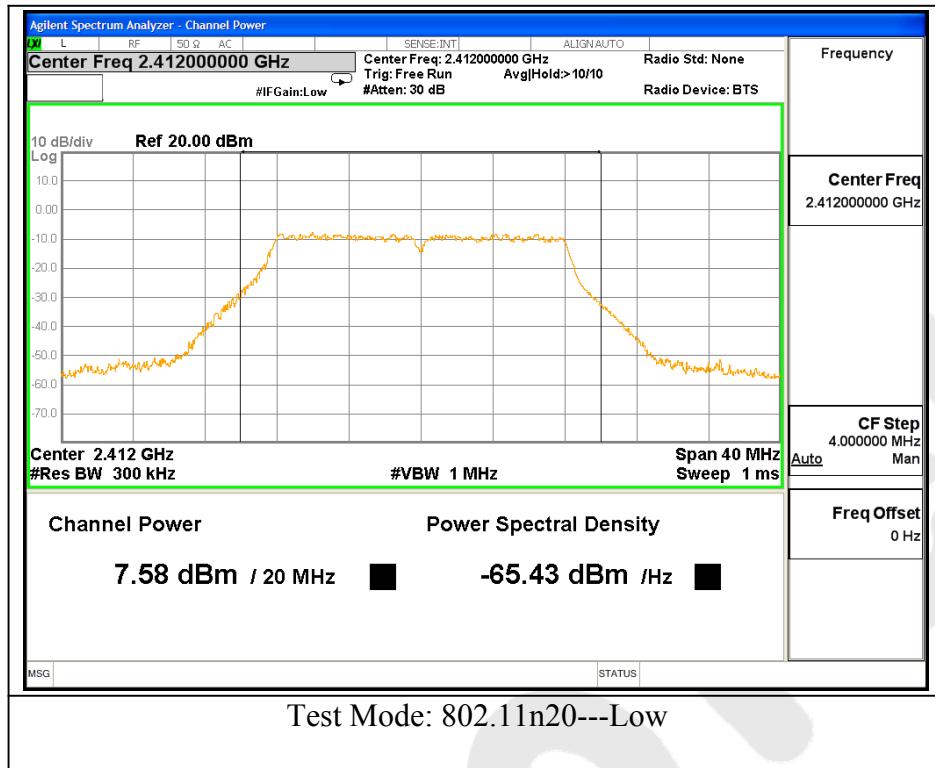
Test mode: IEEE 802.11n (HT20)

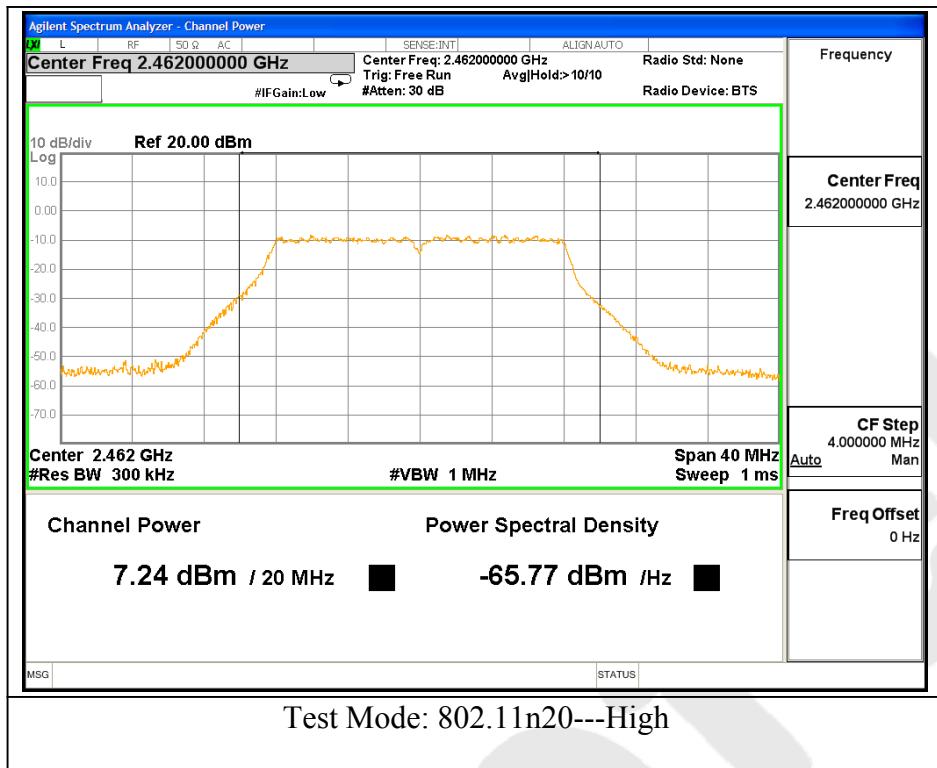
Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	7.58	30	1	Pass
Mid	2437	7.16			Pass
High	2462	7.24			Pass











4.4. Band Edges Measurement

a. Applicable Standard

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

b. Test Procedure

1. Conducted Method:

- 1) Set RBW=100KHz, VBW=300KHz
- 2) Detector=peak
- 3) Sweep time= auto
- 4) Trace mode=max hold.

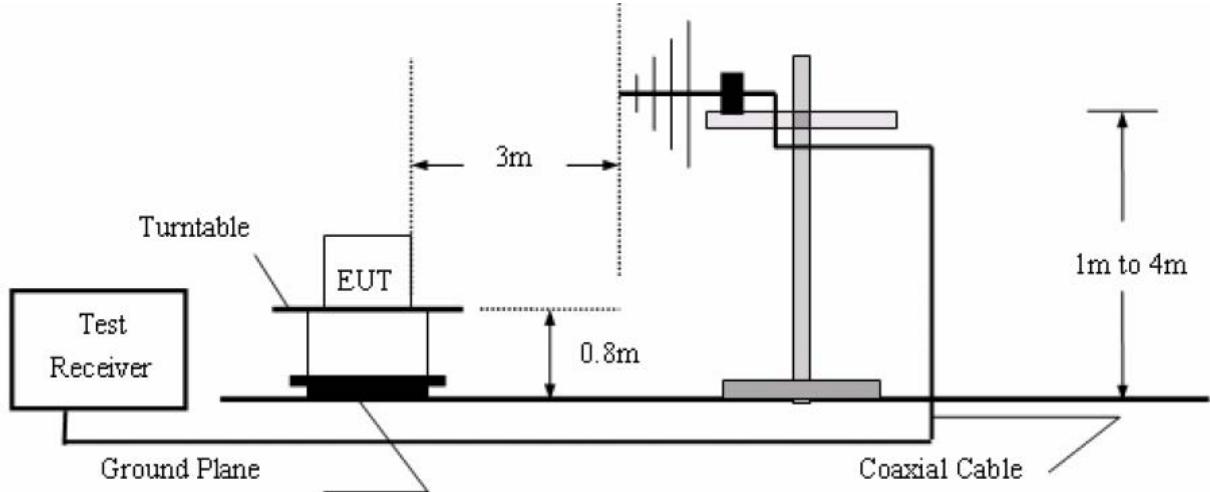
2. Radiated Method:

- 1) For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. The EUT is tested in 9*6*6 Chamber.

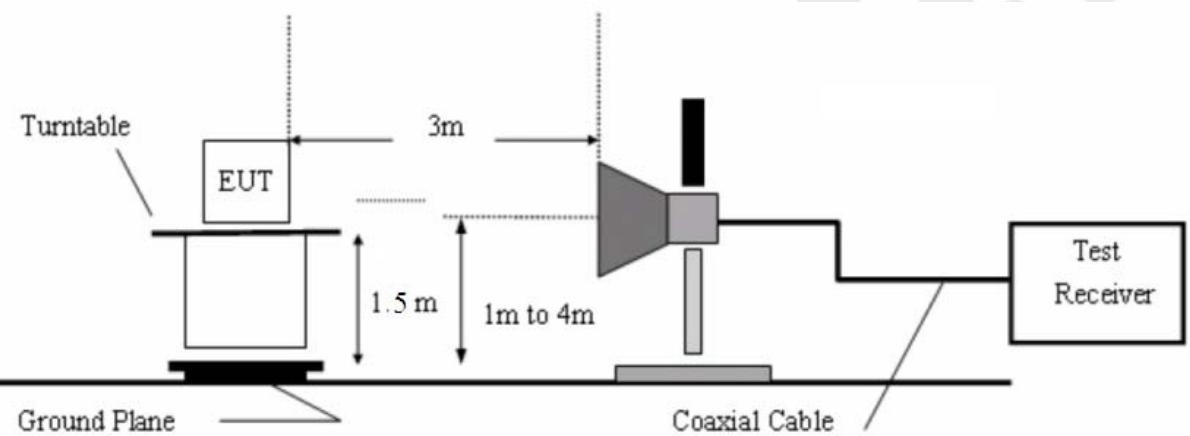
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. The EUT is tested in 9*6*6 Chamber.

- 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=1MHz, VBW=3MHz, 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.

30M to 1G emissions:



1G to 40G emissions:



c. Test Equipment

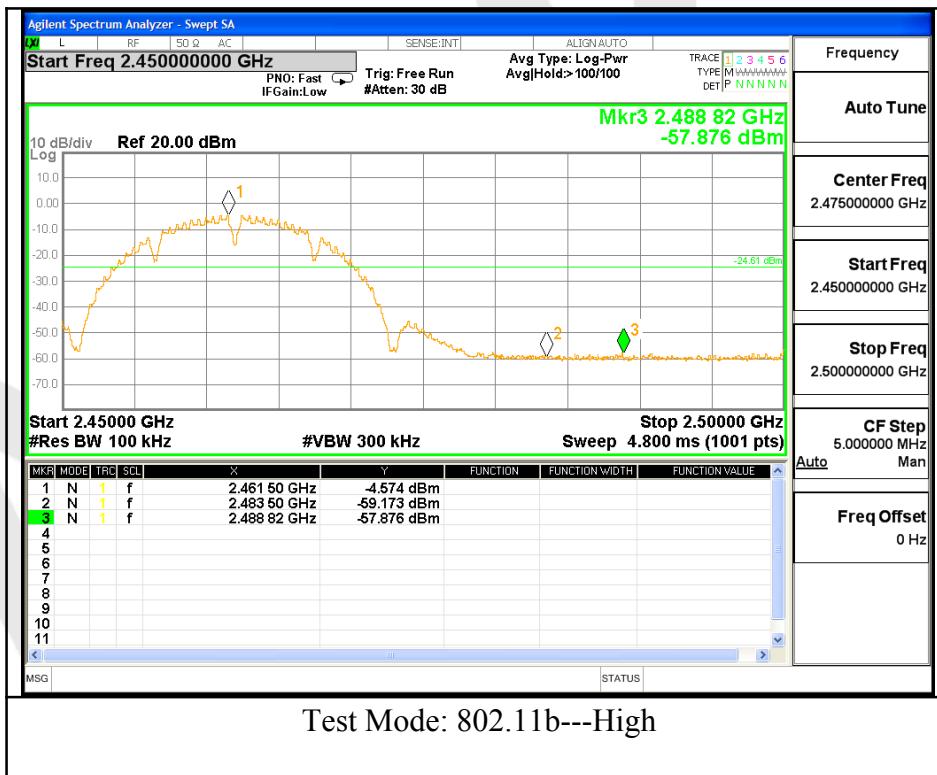
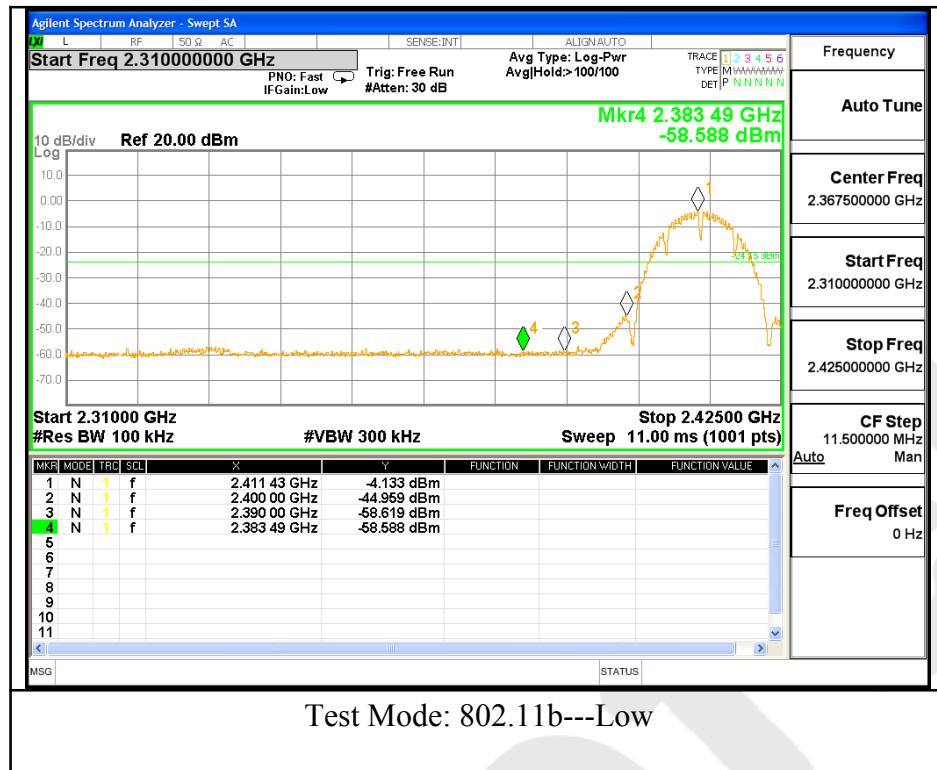
Same as the equipment listed in 4.2.

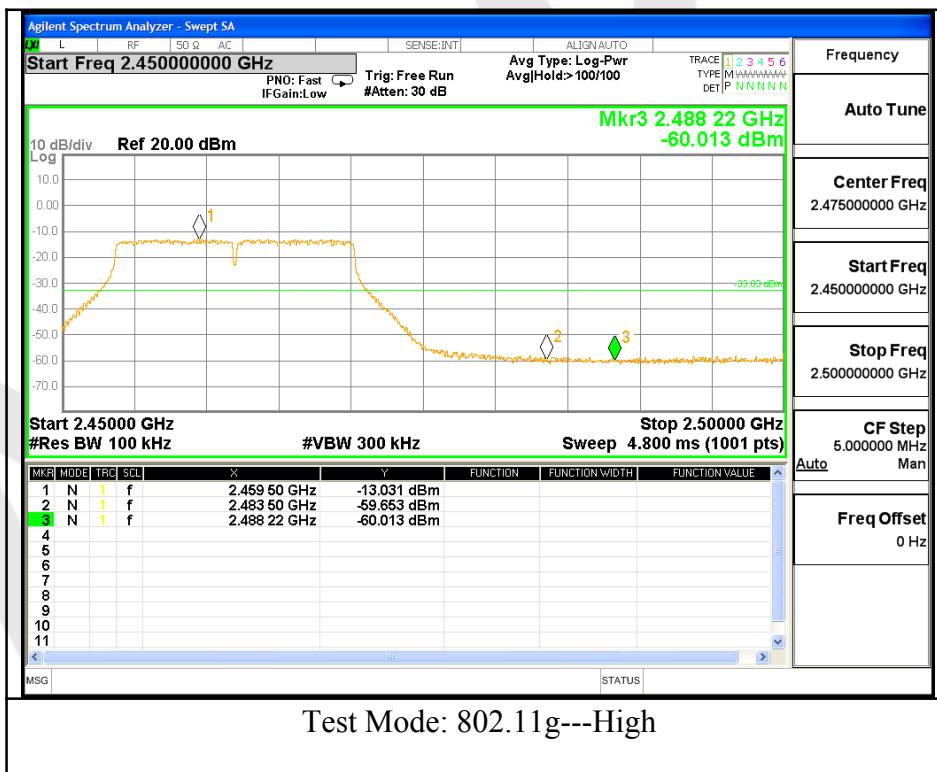
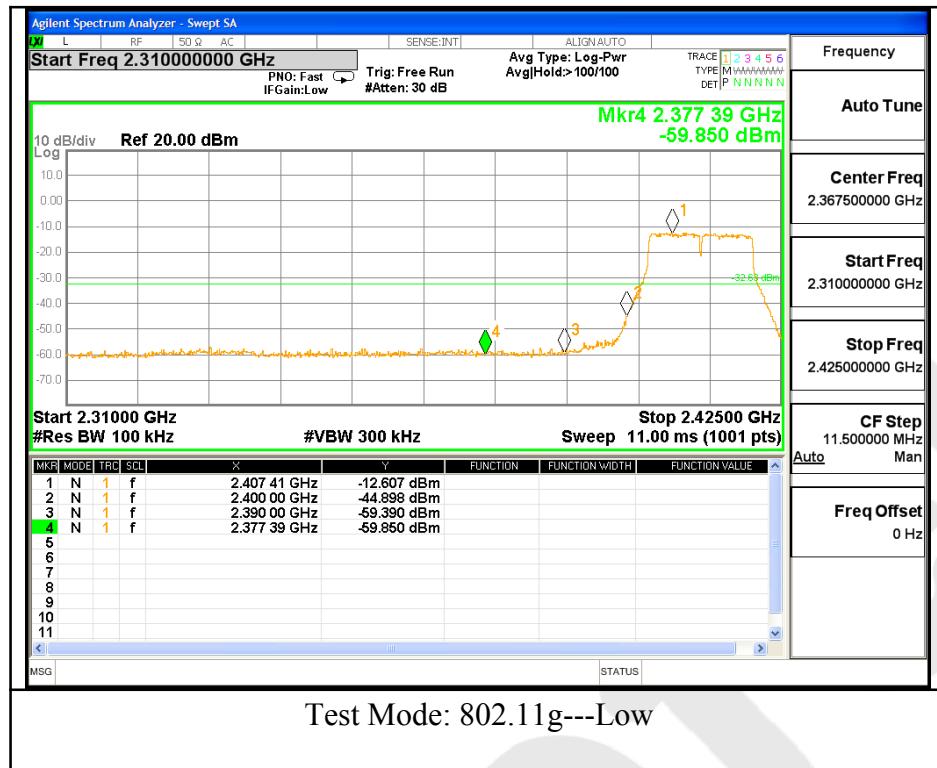
d. Test Results

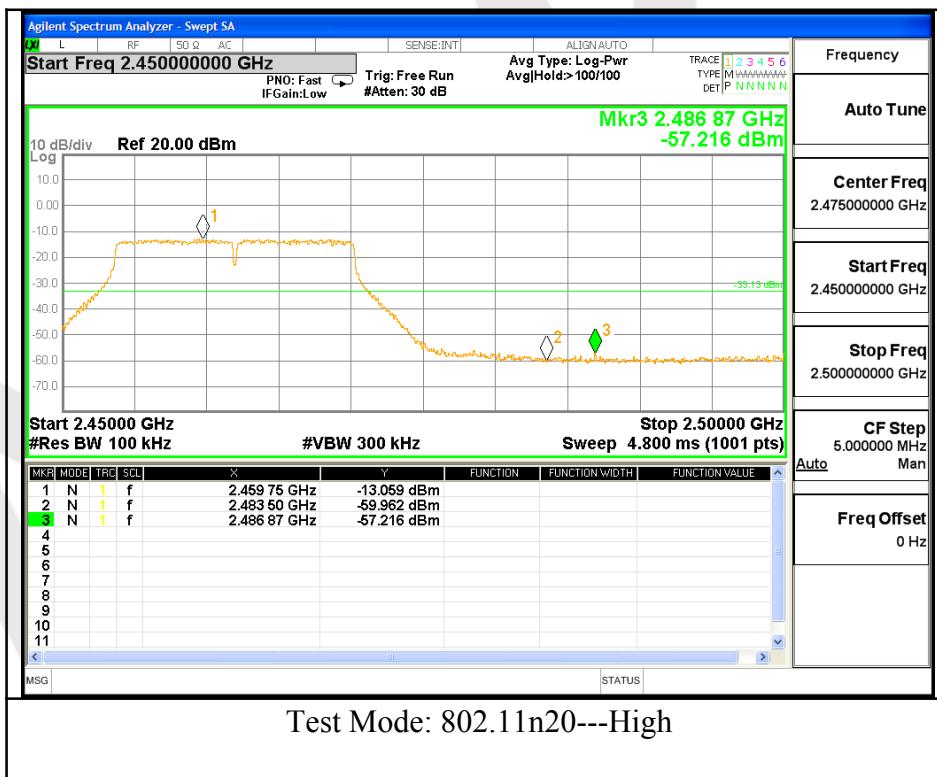
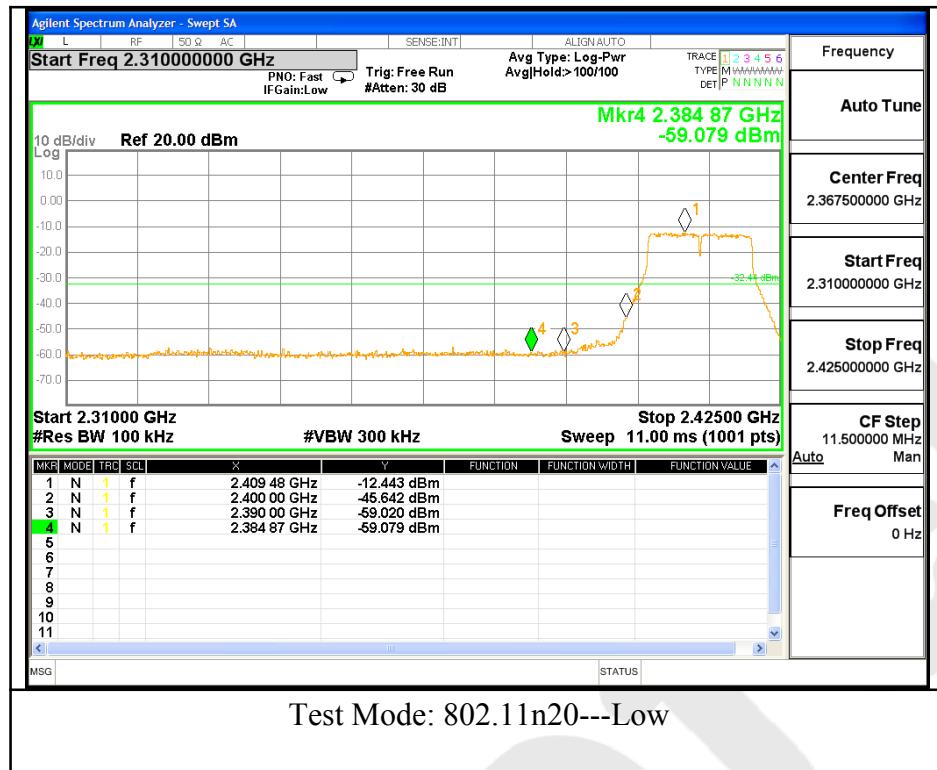
Pass.

e. Test Plots

See the following page.



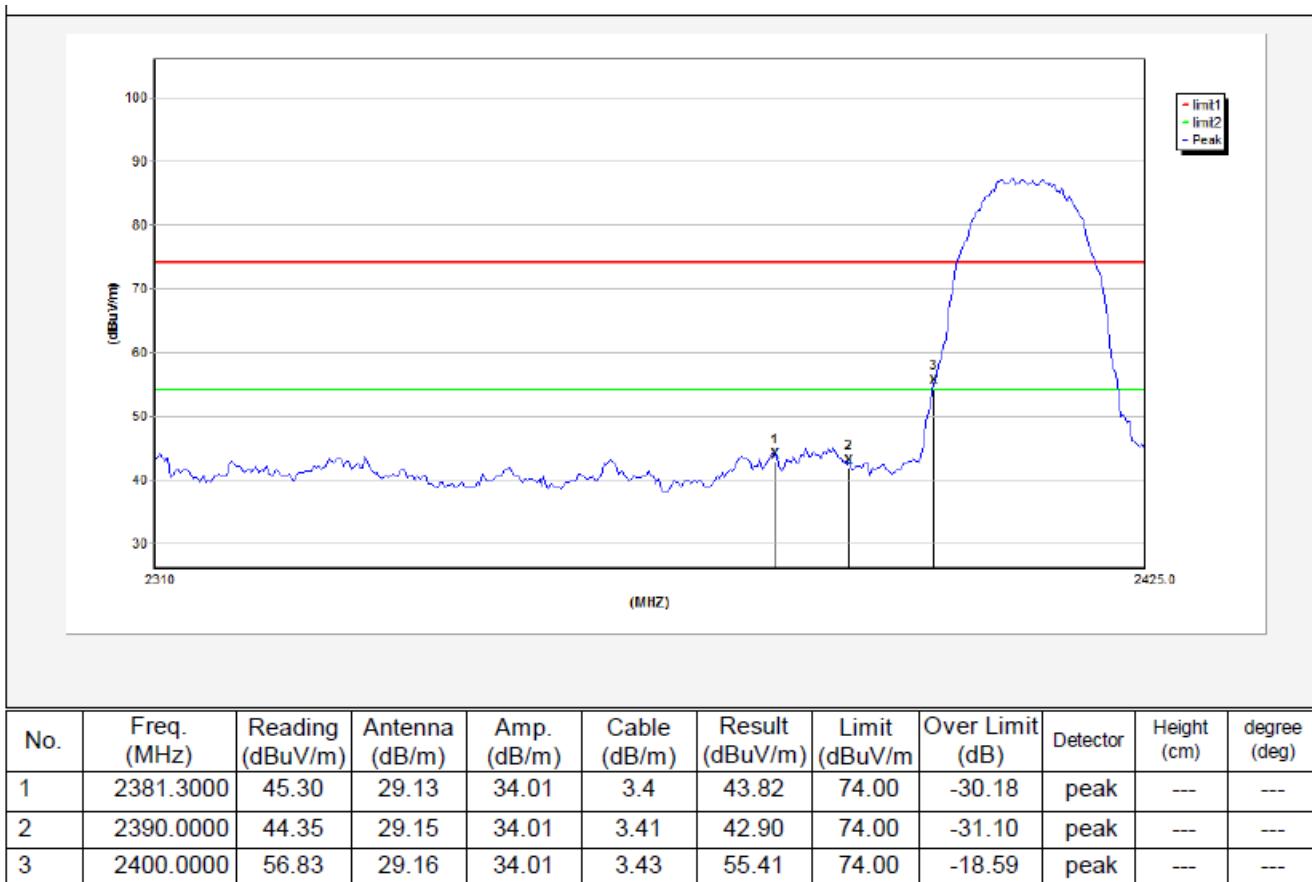




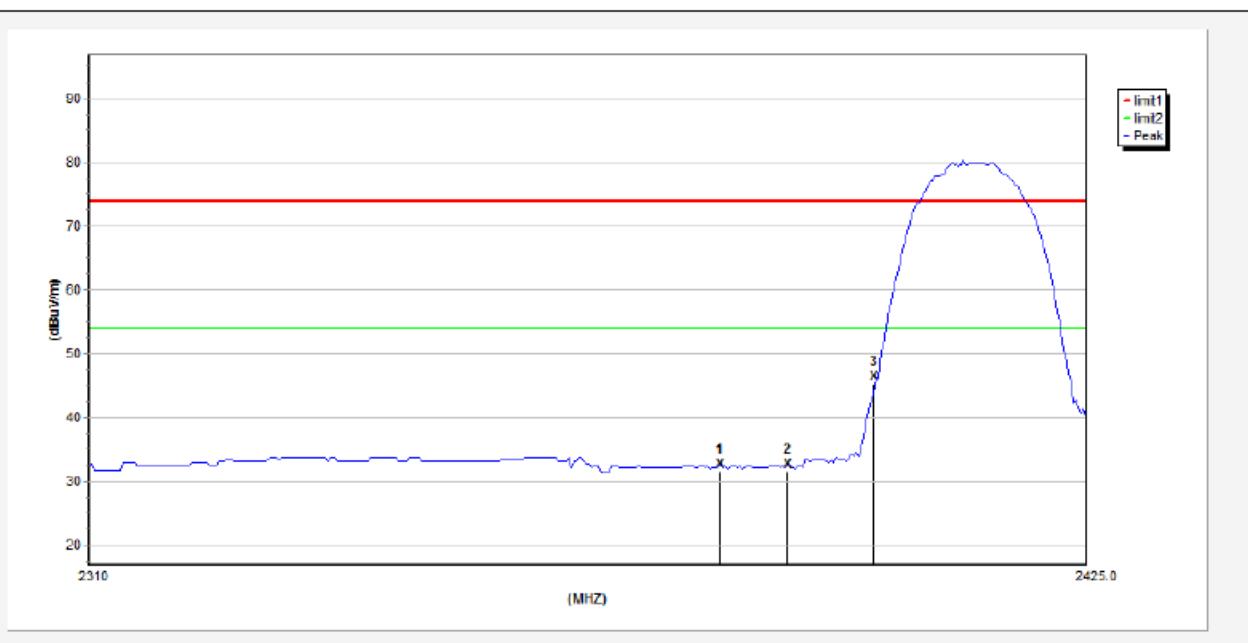
Test Mode: 802.11b

2412MHz

Horizontal-PEAK:



Horizontal-AV:

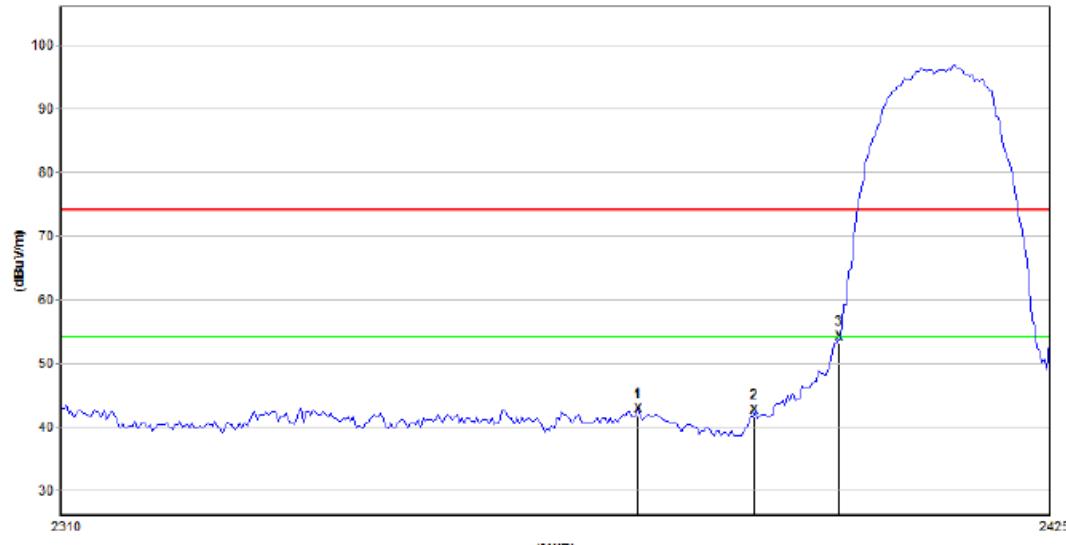


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2382.1624	34.06	29.14	34.01	3.4	32.59	54.00	-21.41	AVG	---	---
2	2390.0000	33.96	29.15	34.01	3.41	32.51	54.00	-21.49	AVG	---	---
3	2400.0000	47.80	29.16	34.01	3.43	46.38	54.00	-7.62	AVG	---	---

Test Mode: 802.11b

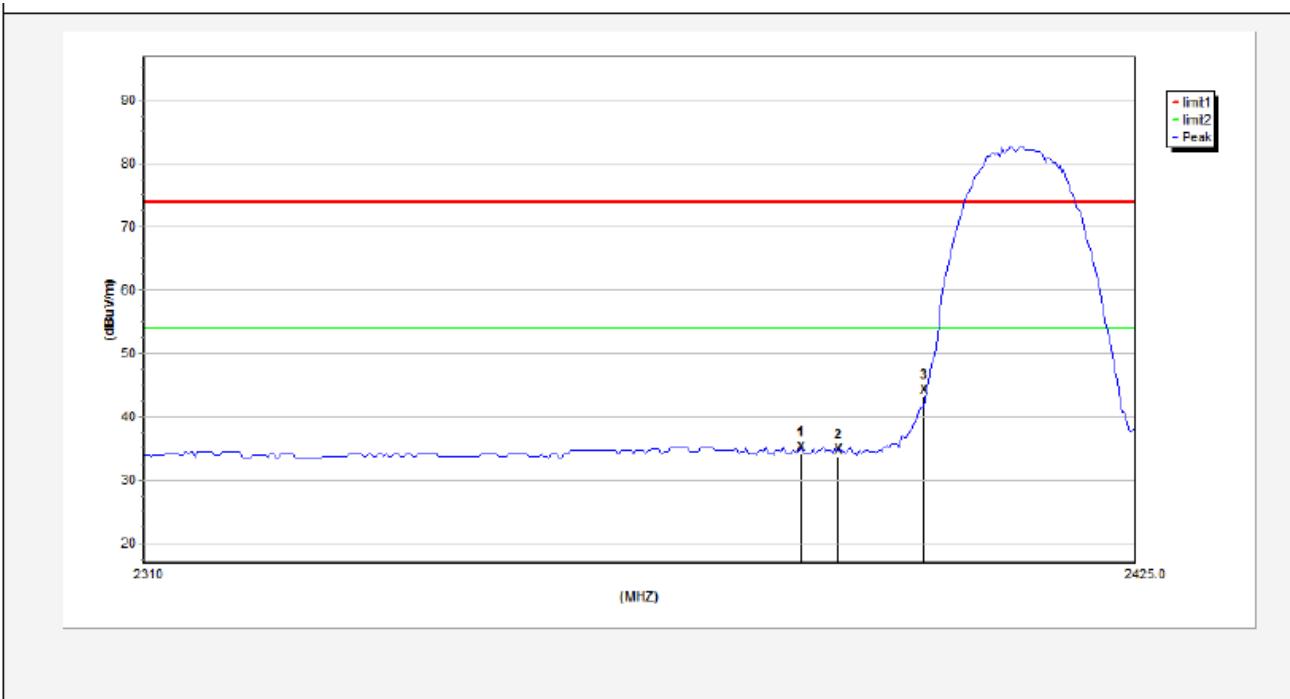
2412MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2376.4124	44.15	29.13	34.01	3.39	42.66	74.00	-31.34	peak	---	---
2	2390.0000	43.85	29.15	34.01	3.41	42.40	74.00	-31.60	peak	---	---
3	2400.0000	55.54	29.16	34.01	3.43	54.12	74.00	-19.88	peak	---	---

Vertical-AV:

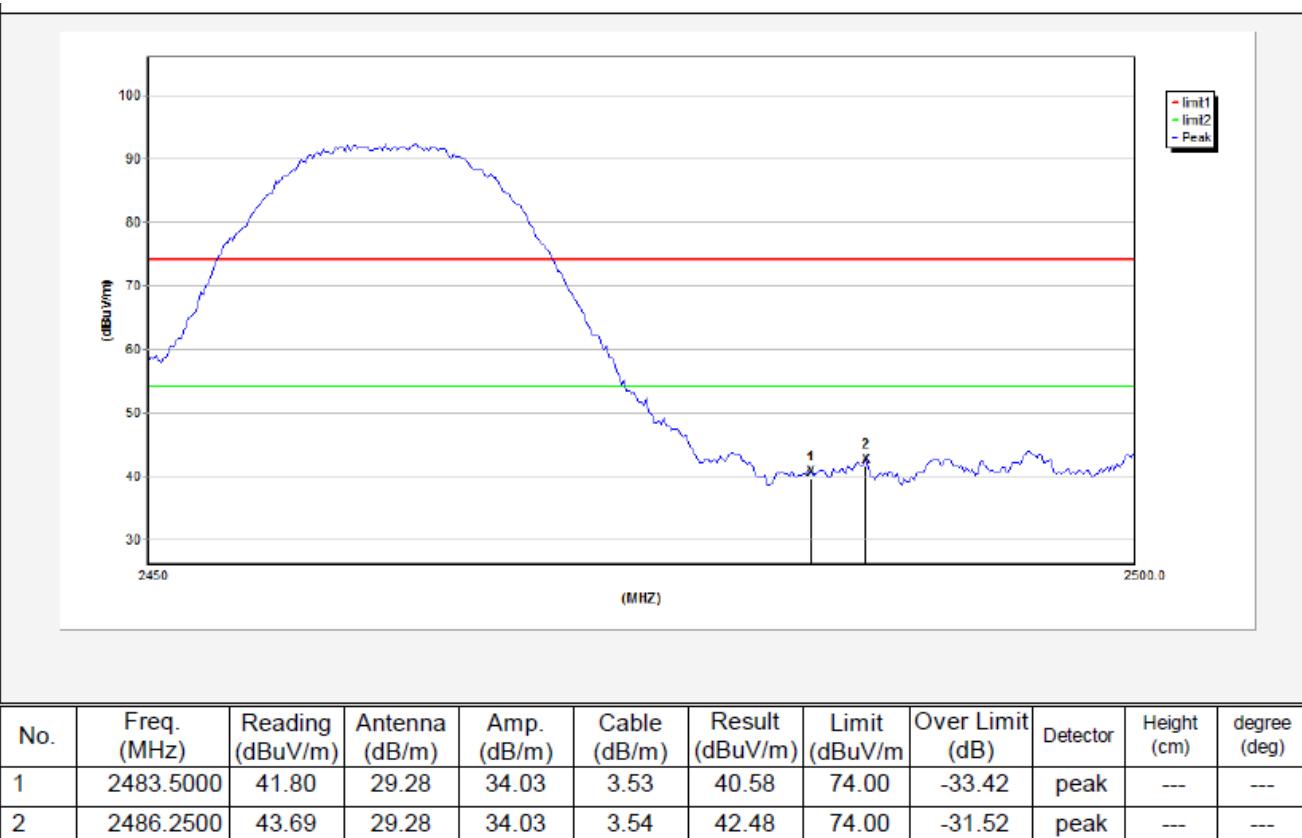


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2385.6125	36.63	29.14	34.01	3.41	35.17	54.00	-18.83	AVG	---	---
2	2390.0000	36.27	29.15	34.01	3.41	34.82	54.00	-19.18	AVG	---	---
3	2400.0000	45.58	29.16	34.01	3.43	44.16	54.00	-9.84	AVG	---	---

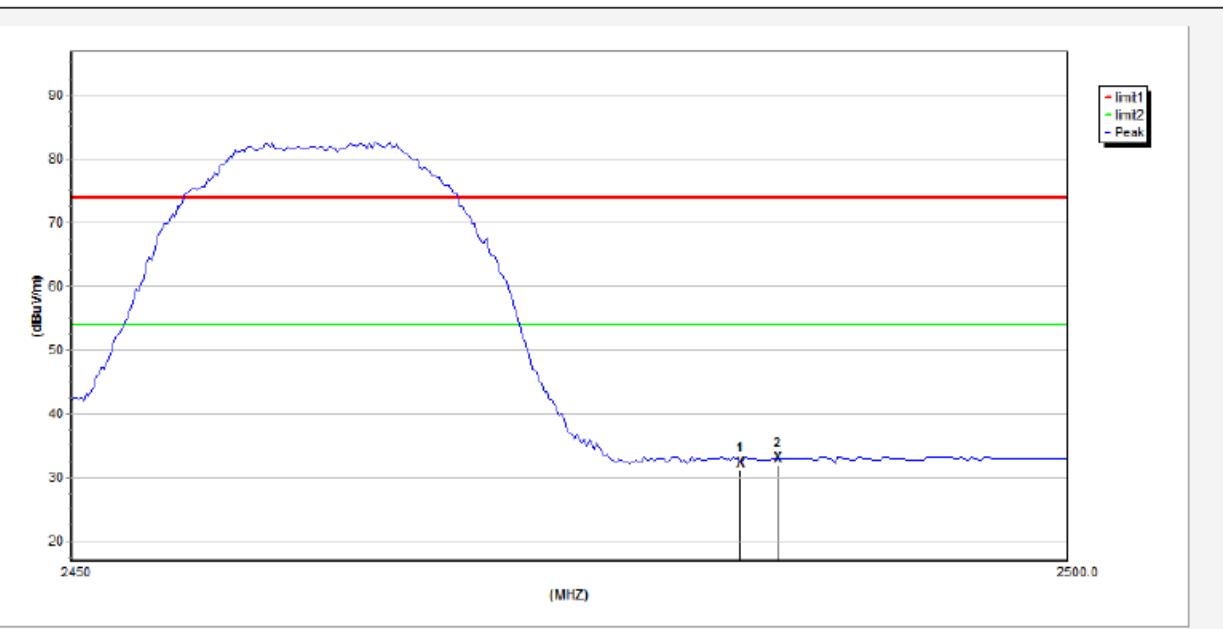
Test Mode: 802.11b

2462MHz

Horizontal-PEAK:



Horizontal-AV:

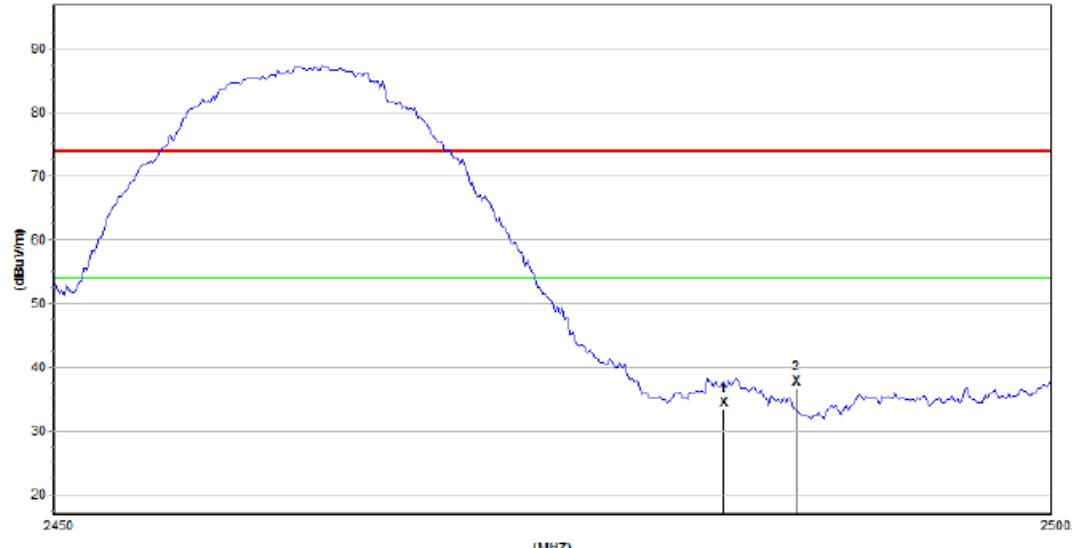


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	33.51	29.28	34.03	3.53	32.29	54.00	-21.71	AVG	---	---
2	2485.3750	34.13	29.28	34.03	3.54	32.92	54.00	-21.08	AVG	---	---

Test Mode: 802.11b

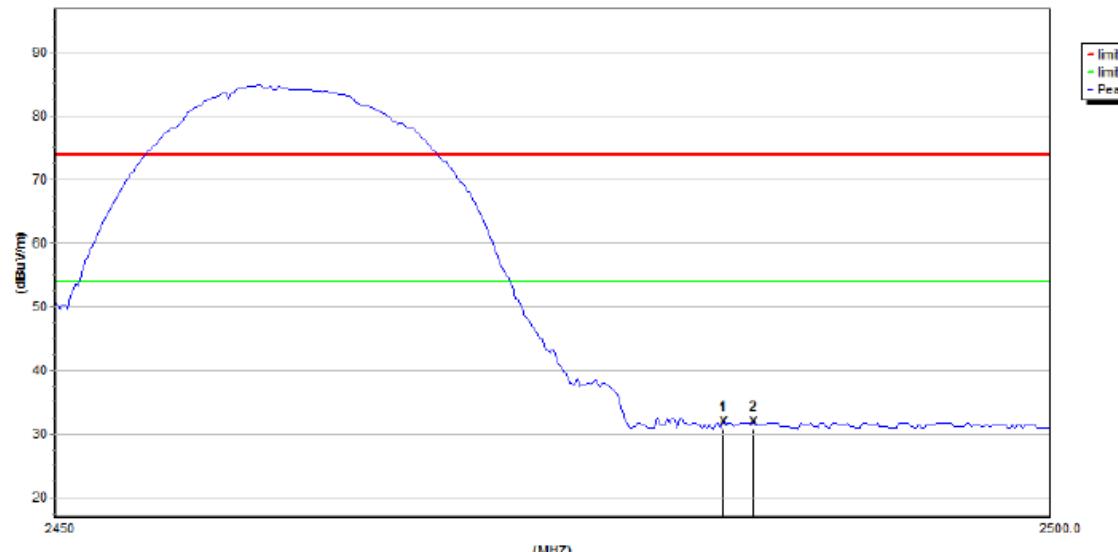
2462MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	35.63	29.28	34.03	3.53	34.41	74.00	-39.59	peak	---	---
2	2487.1250	38.91	29.28	34.03	3.54	37.70	74.00	-36.30	peak	---	---

Vertical-AV:

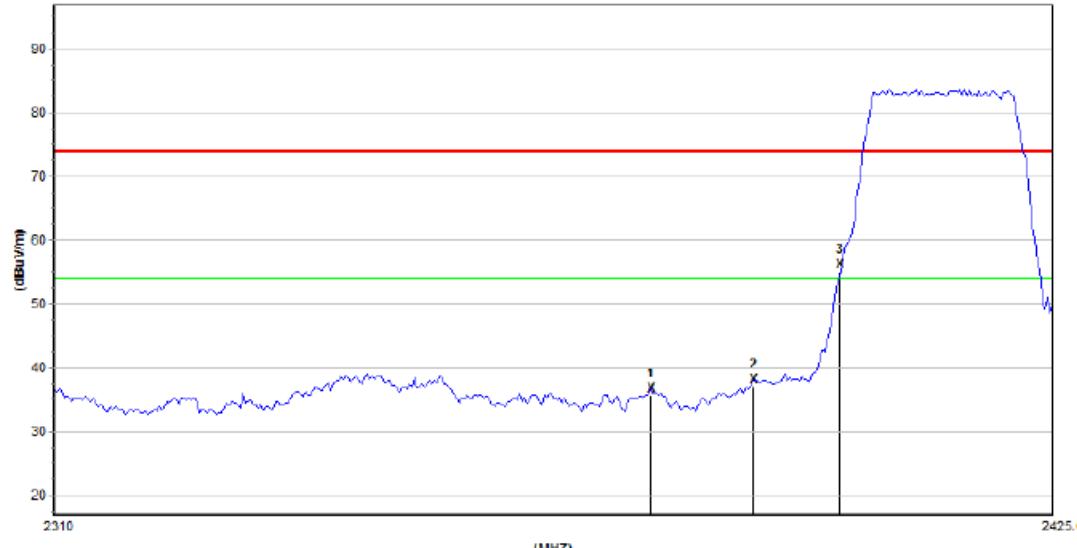


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	33.03	29.28	34.03	3.53	31.81	54.00	-22.19	AVG	---	---
2	2485.0000	33.10	29.28	34.03	3.54	31.89	54.00	-22.11	AVG	---	---

Test Mode: 802.11g

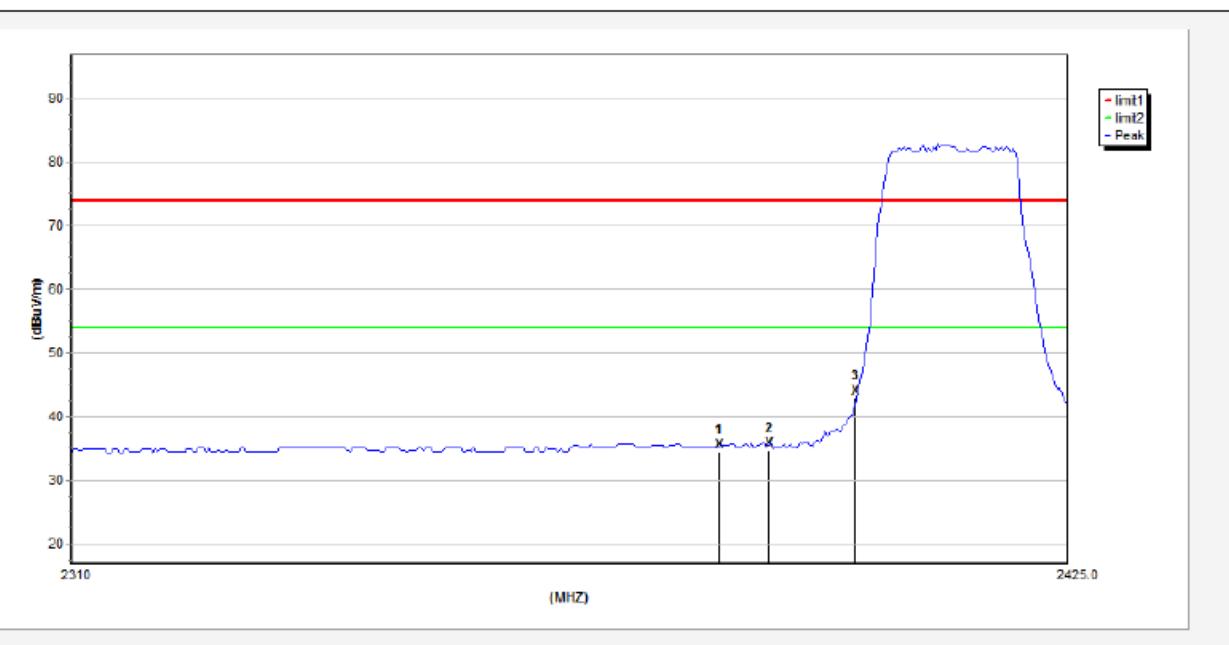
2412MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2378.1374	38.23	29.13	34.01	3.4	36.75	74.00	-37.25	peak	---	---
2	2390.0000	39.56	29.15	34.01	3.41	38.11	74.00	-35.89	peak	---	---
3	2400.0000	57.49	29.16	34.01	3.43	56.07	74.00	-17.93	peak	---	---

Horizontal-AV:

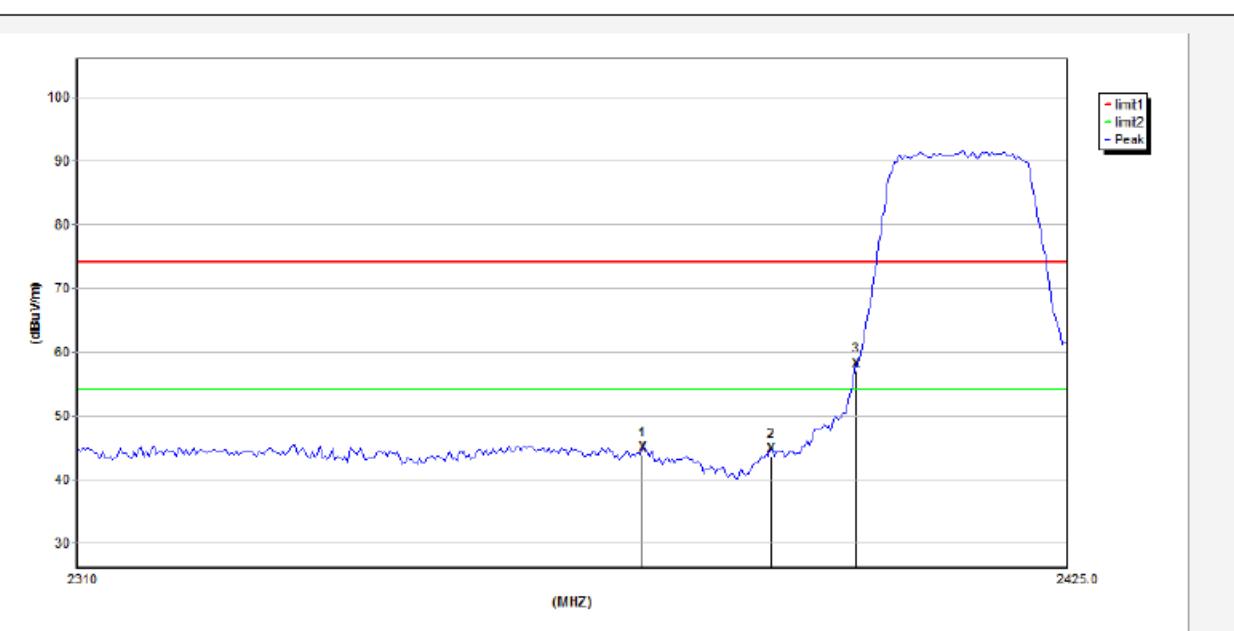


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2384.1750	36.90	29.14	34.01	3.4	35.43	54.00	-18.57	AVG	---	---
2	2390.0000	37.21	29.15	34.01	3.41	35.76	54.00	-18.24	AVG	---	---
3	2400.0000	45.30	29.16	34.01	3.43	43.88	54.00	-10.12	AVG	---	---

Test Mode: 802.11g

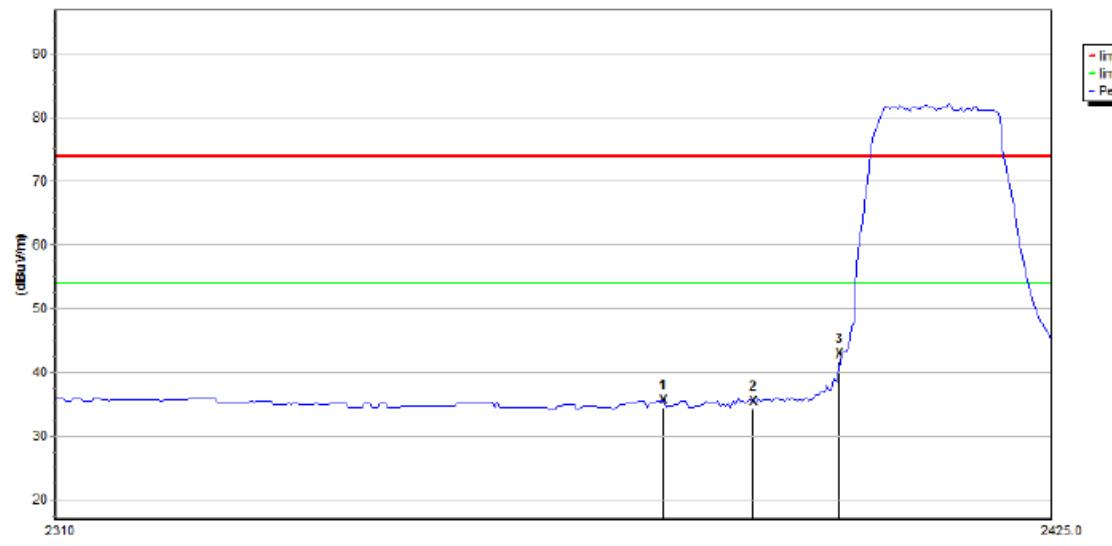
2412MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2374.9750	46.42	29.12	34.01	3.39	44.92	74.00	-29.08	peak	---	---
2	2390.0000	46.01	29.15	34.01	3.41	44.56	74.00	-29.44	peak	---	---
3	2400.0000	59.37	29.16	34.01	3.43	57.95	74.00	-16.05	peak	---	---

Vertical-AV:

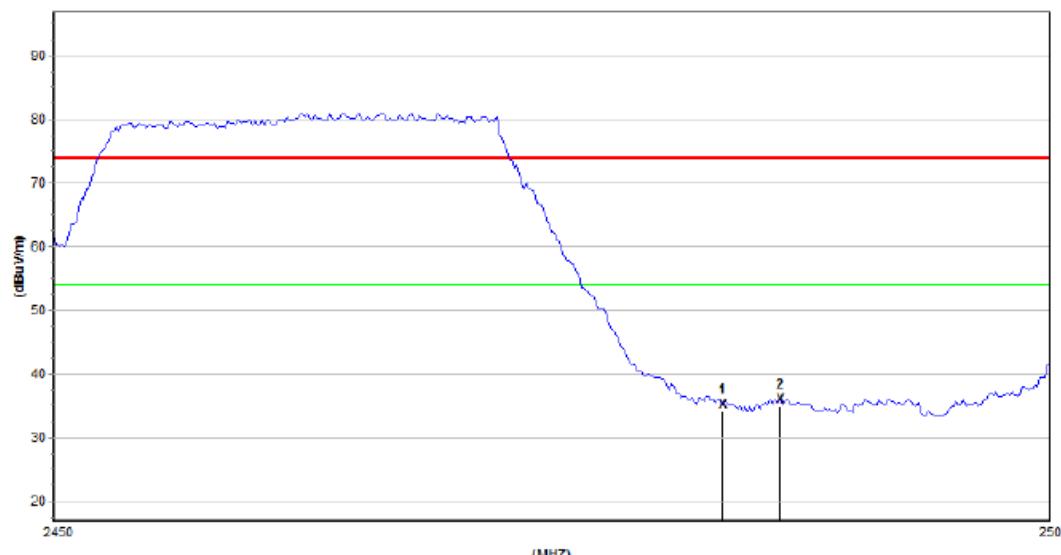


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2379.5750	37.01	29.13	34.01	3.4	35.53	54.00	-18.47	AVG	---	---
2	2390.0000	36.85	29.15	34.01	3.41	35.40	54.00	-18.60	AVG	---	---
3	2400.0000	44.22	29.16	34.01	3.43	42.80	54.00	-11.20	AVG	---	---

Test Mode: 802.11g

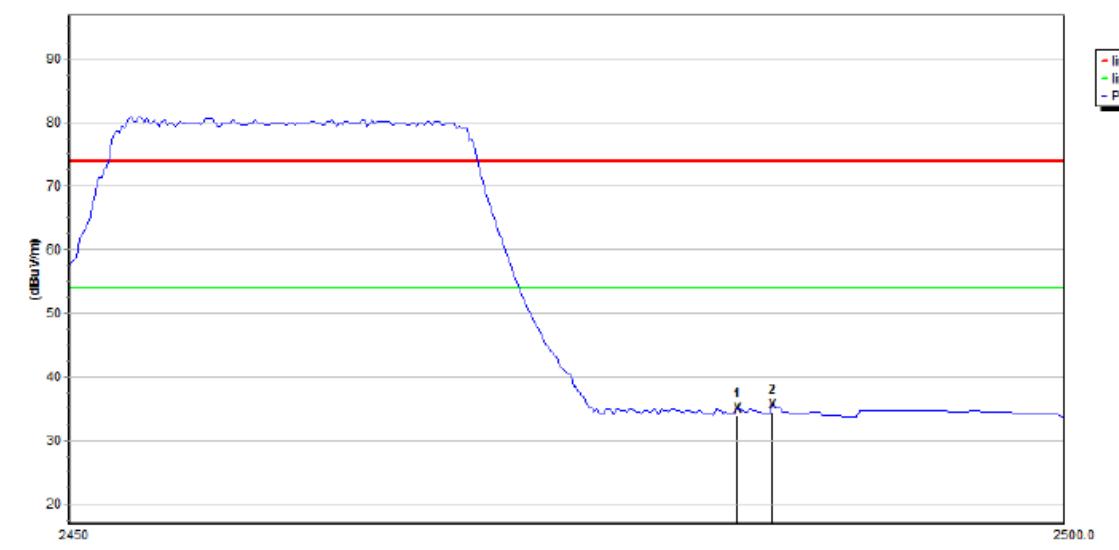
2462MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	36.35	29.28	34.03	3.53	35.13	74.00	-38.87	peak	---	---
2	2486.3750	37.19	29.28	34.03	3.54	35.98	74.00	-38.02	peak	---	---

Horizontal-AV:

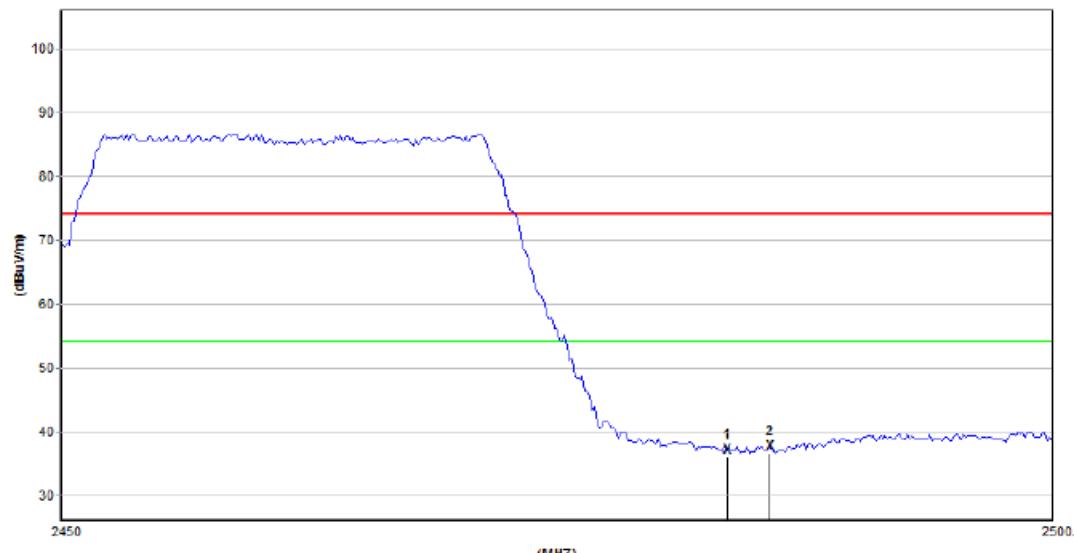


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	36.20	29.28	34.03	3.53	34.98	54.00	-19.02	AVG	---	---
2	2485.2500	36.69	29.28	34.03	3.54	35.48	54.00	-18.52	AVG	---	---

Test Mode: 802.11g

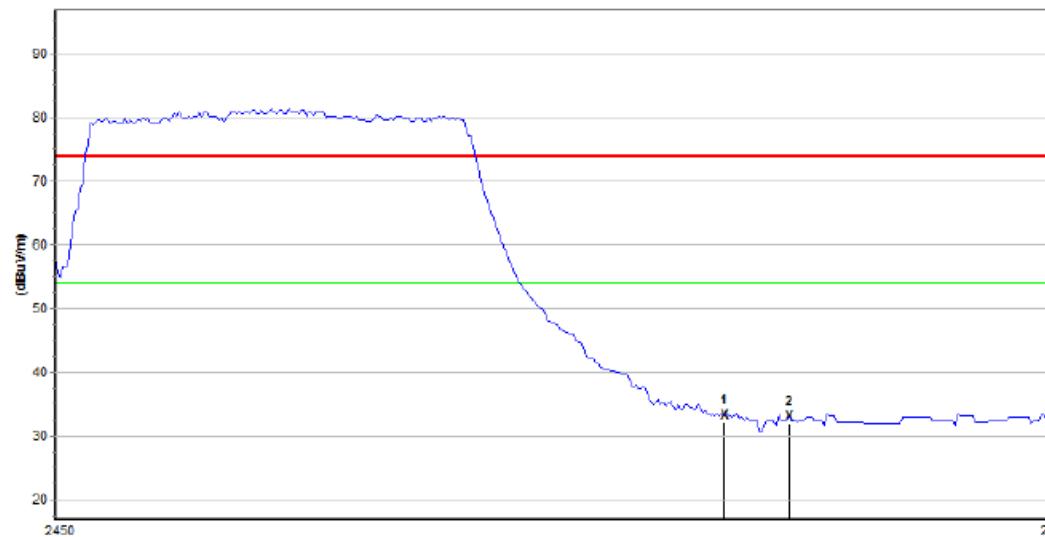
2462MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	38.15	29.28	34.03	3.53	36.93	74.00	-37.07	peak	---	---
2	2485.6250	38.77	29.28	34.03	3.54	37.56	74.00	-36.44	peak	---	---

Vertical-AV:

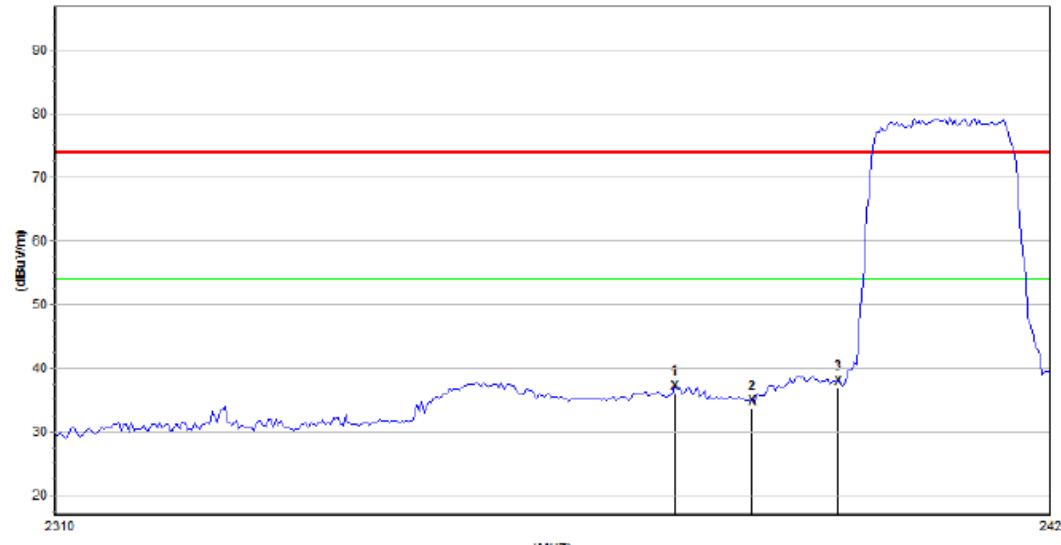


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	34.42	29.28	34.03	3.53	33.20	54.00	-20.80	AVG	---	---
2	2486.7500	34.14	29.28	34.03	3.54	32.93	54.00	-21.07	AVG	---	---

Test Mode: 802.11n (HT20)

2412MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2381.0124	38.60	29.13	34.01	3.4	37.12	74.00	-36.88	peak	---	---
2	2390.0000	36.18	29.15	34.01	3.41	34.73	74.00	-39.27	peak	---	---
3	2400.0000	39.33	29.16	34.01	3.43	37.91	74.00	-36.09	peak	---	---

Horizontal-AV:

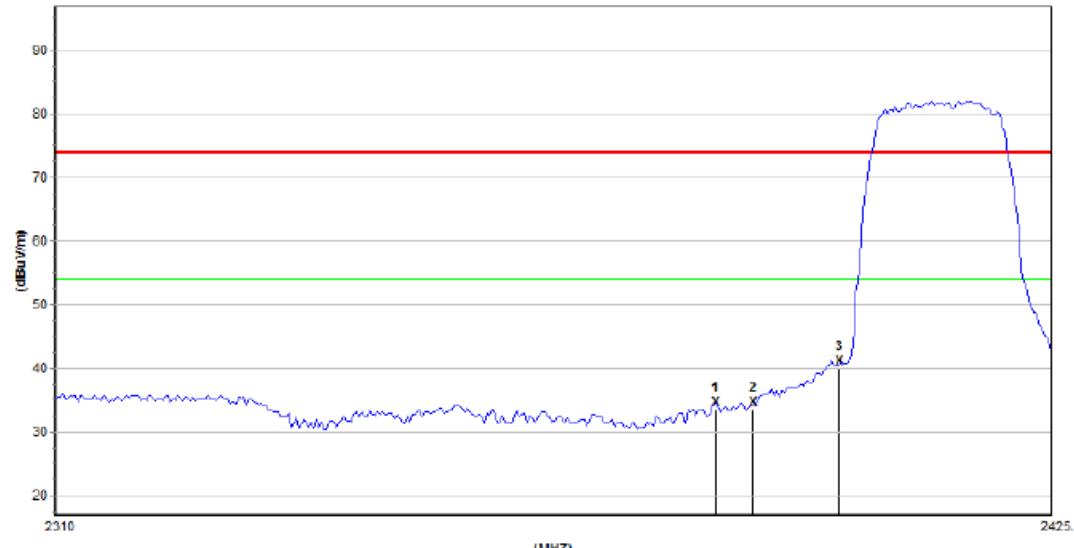


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2383.8874	35.02	29.14	34.01	3.4	33.55	54.00	-20.45	AVG	---	---
2	2390.0000	35.01	29.15	34.01	3.41	33.56	54.00	-20.44	AVG	---	---
3	2400.0000	36.46	29.16	34.01	3.43	35.04	54.00	-18.96	AVG	---	---

Test Mode: 802.11n (HT20)

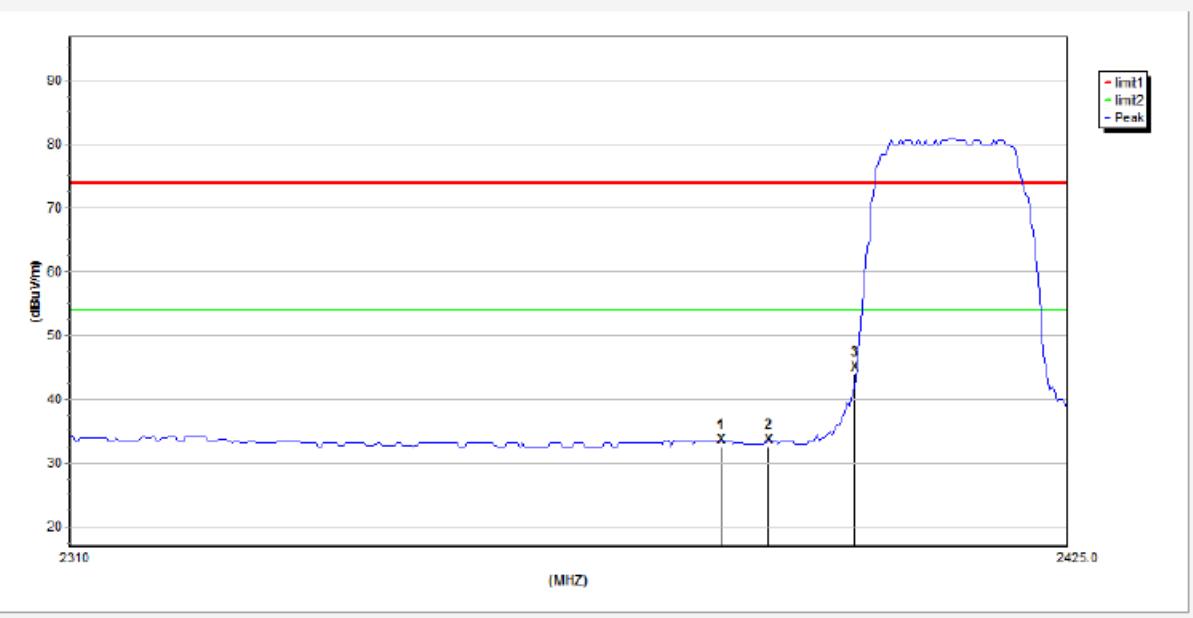
2412MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2385.6125	36.10	29.14	34.01	3.41	34.64	74.00	-39.36	peak	---	---
2	2390.0000	36.03	29.15	34.01	3.41	34.58	74.00	-39.42	peak	---	---
3	2400.0000	42.51	29.16	34.01	3.43	41.09	74.00	-32.91	peak	---	---

Vertical-AV:

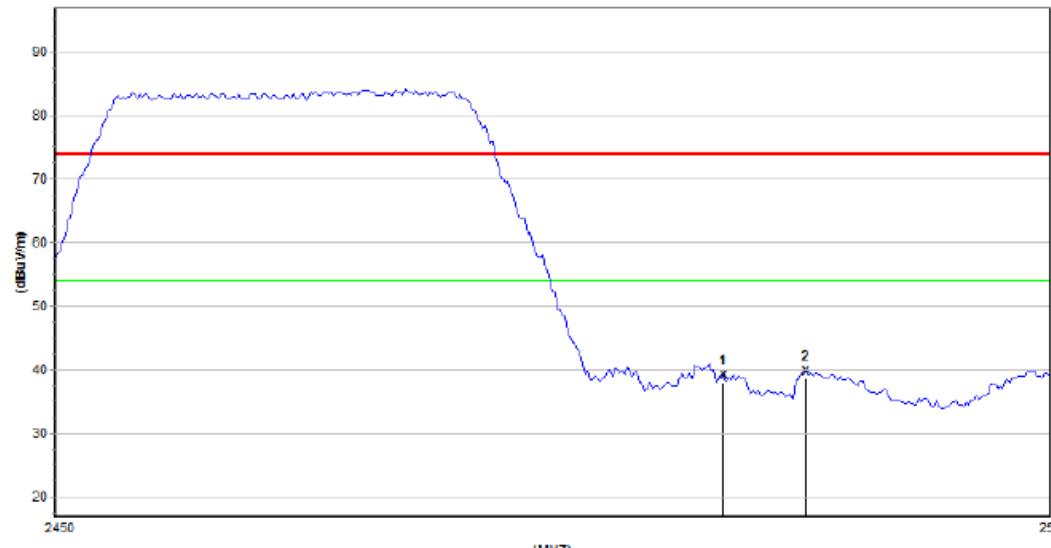


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2384.4625	35.05	29.14	34.01	3.4	33.58	54.00	-20.42	AVG	---	---
2	2390.0000	35.03	29.15	34.01	3.41	33.58	54.00	-20.42	AVG	---	---
3	2400.0000	46.43	29.16	34.01	3.43	45.01	54.00	-8.99	AVG	---	---

Test Mode: 802.11n (HT20)

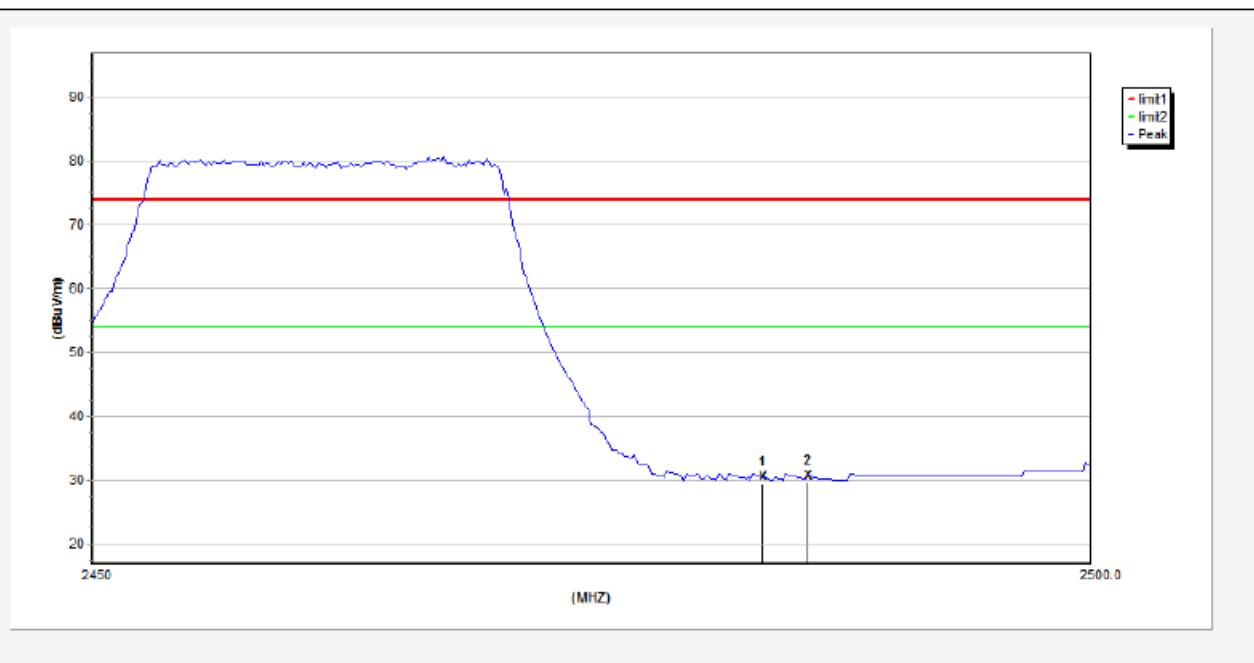
2462MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	40.35	29.28	34.03	3.53	39.13	74.00	-34.87	peak	---	---
2	2487.6250	40.86	29.28	34.03	3.54	39.65	74.00	-34.35	peak	---	---

Horizontal-AV:

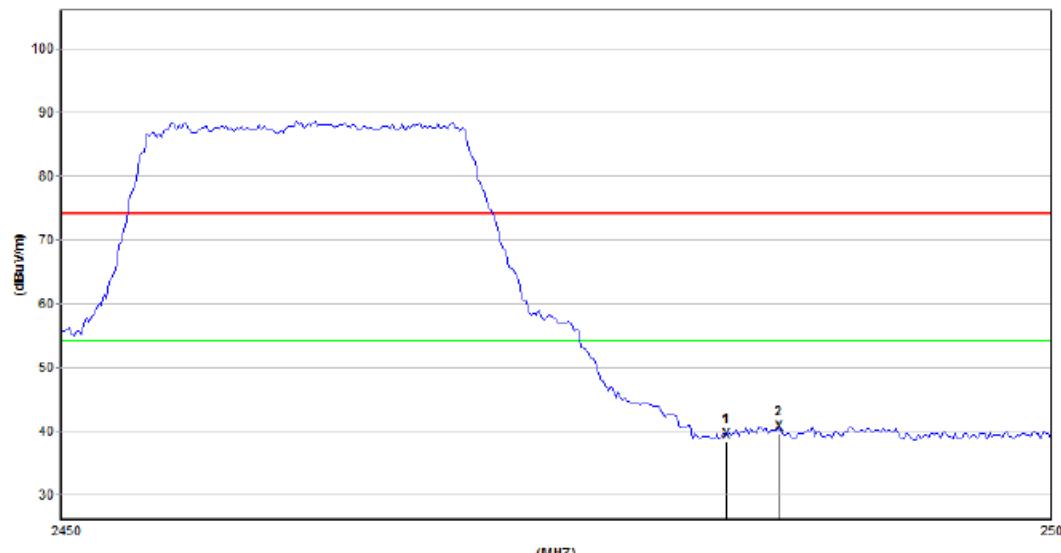


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	31.70	29.28	34.03	3.53	30.48	54.00	-23.52	AVG	---	---
2	2485.7500	31.83	29.28	34.03	3.54	30.62	54.00	-23.38	AVG	---	---

Test Mode: 802.11n (HT20)

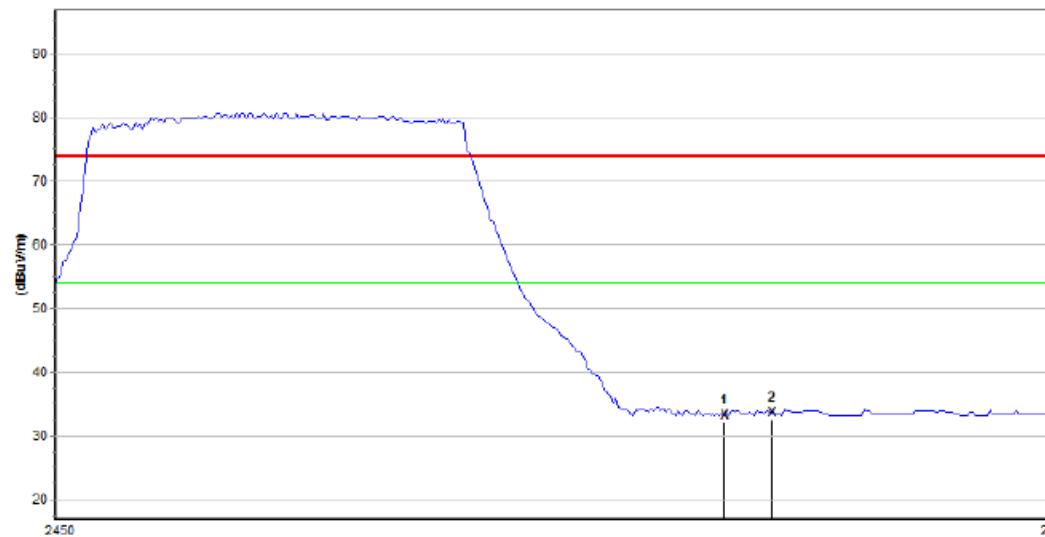
2462MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	40.65	29.28	34.03	3.53	39.43	74.00	-34.57	peak	---	---
2	2486.1250	41.70	29.28	34.03	3.54	40.49	74.00	-33.51	peak	---	---

Vertical-AV:



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	34.42	29.28	34.03	3.53	33.20	54.00	-20.80	AVG	---	---
2	2485.8750	34.87	29.28	34.03	3.54	33.66	54.00	-20.34	AVG	---	---

4.5. 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 = 3.0kHz, VBW = 10kHz, Span = 1.5xDTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Setup

See 4.1

e. Test Results

Pass

f. Test Data

Please refer to the following data.

g. Test Plot

See the following pages

Test mode: IEEE 802.11b

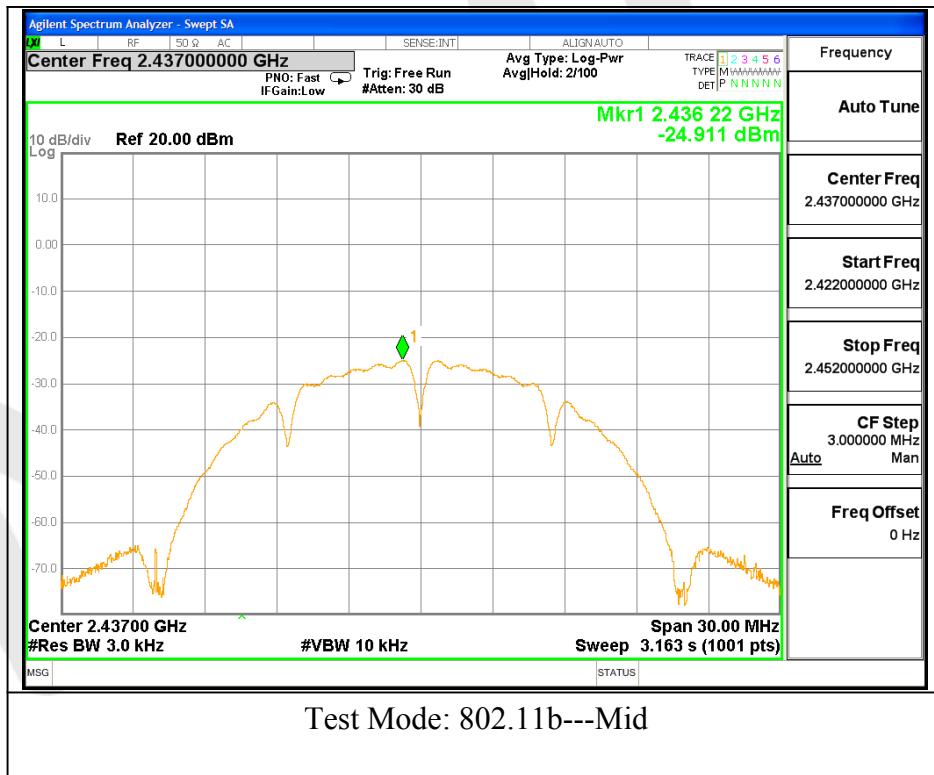
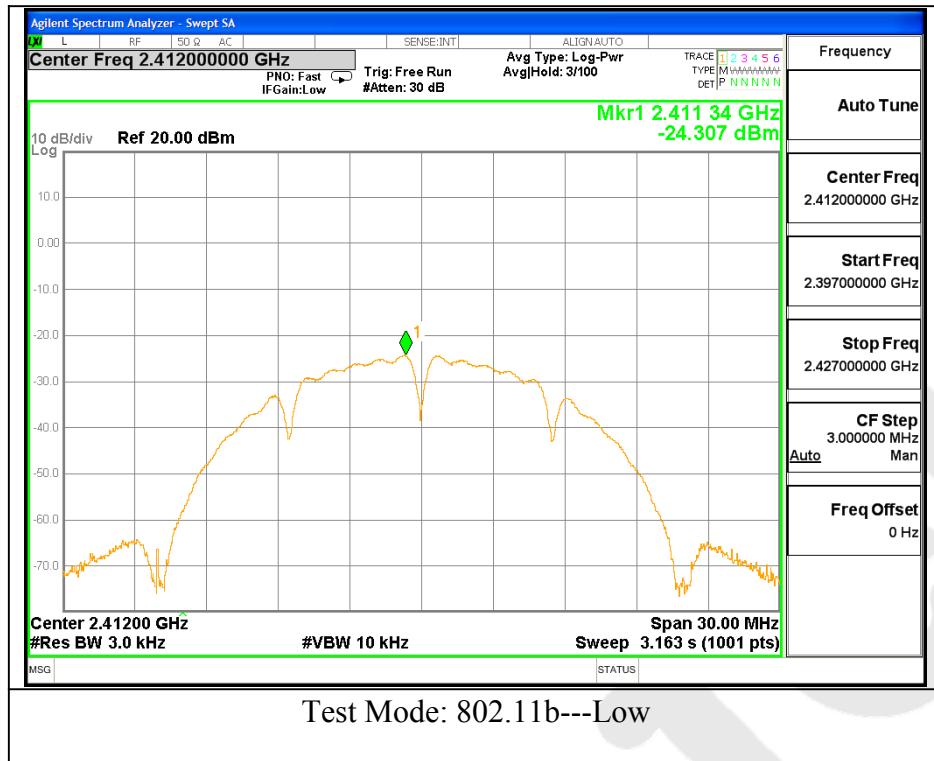
Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-24.307	-		Pass
Mid	2437	-24.911	-	8.00	Pass
High	2462	-24.761	-		Pass

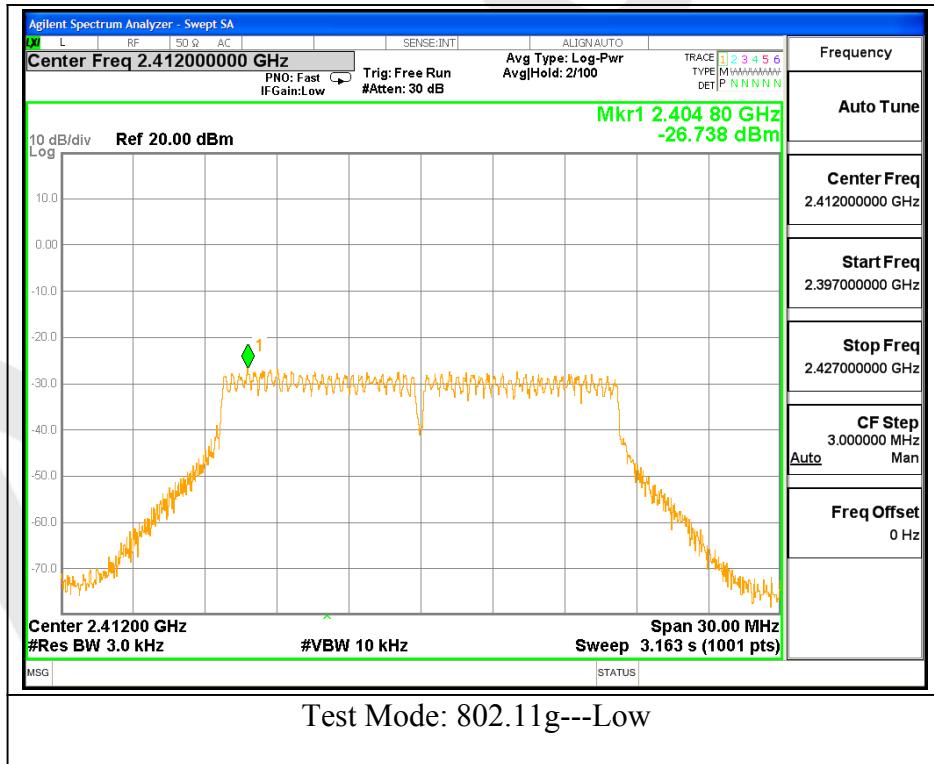
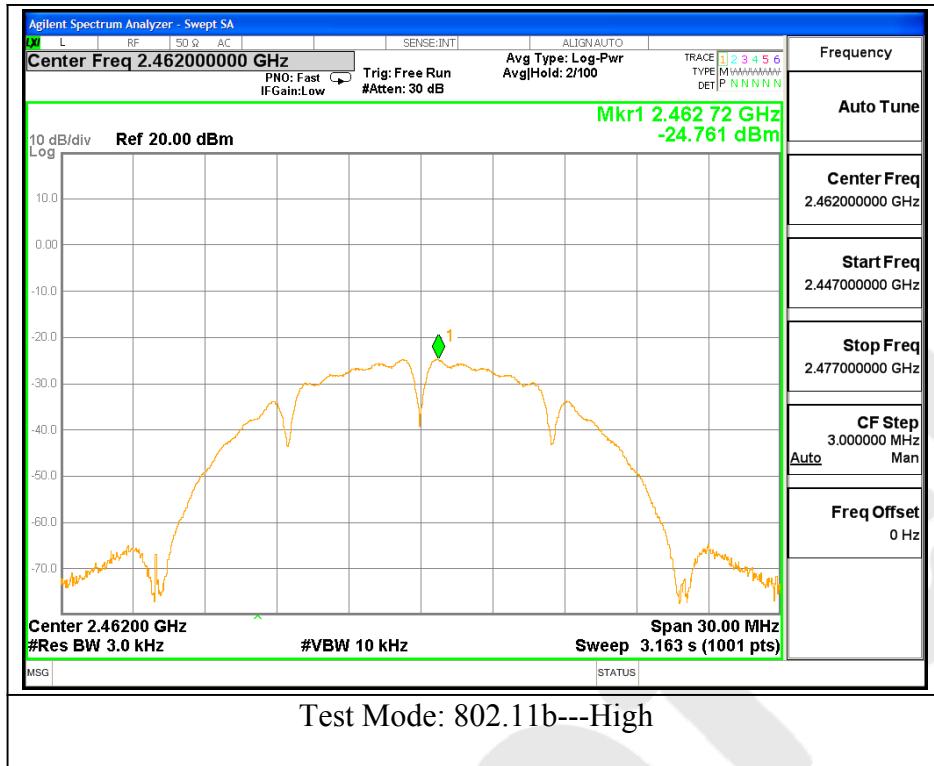
Test mode: IEEE 802.11g

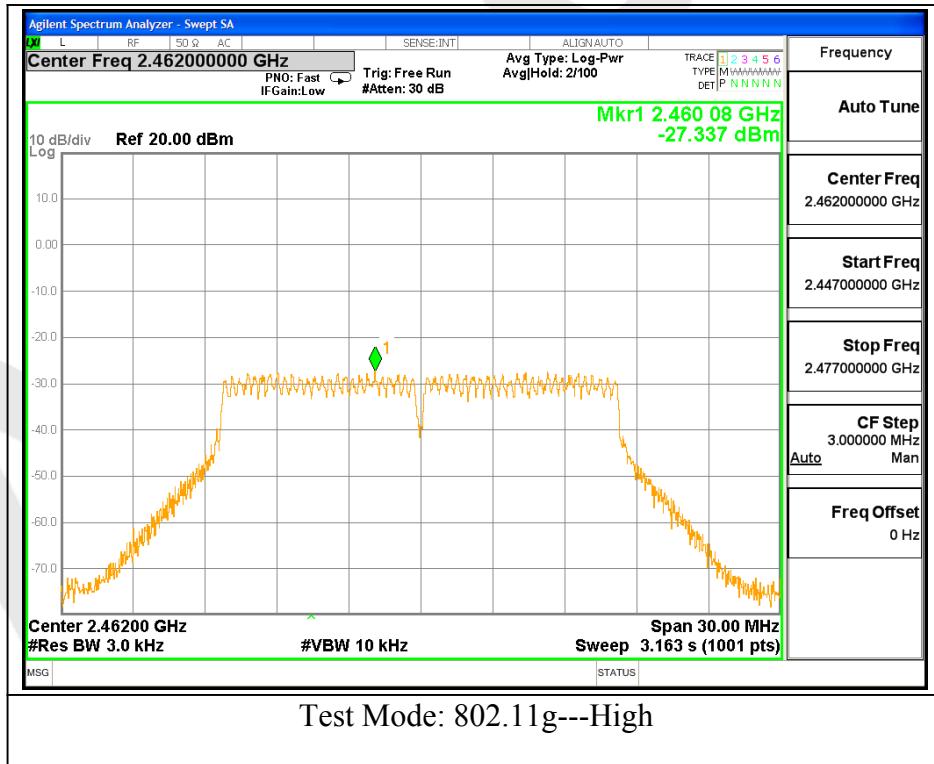
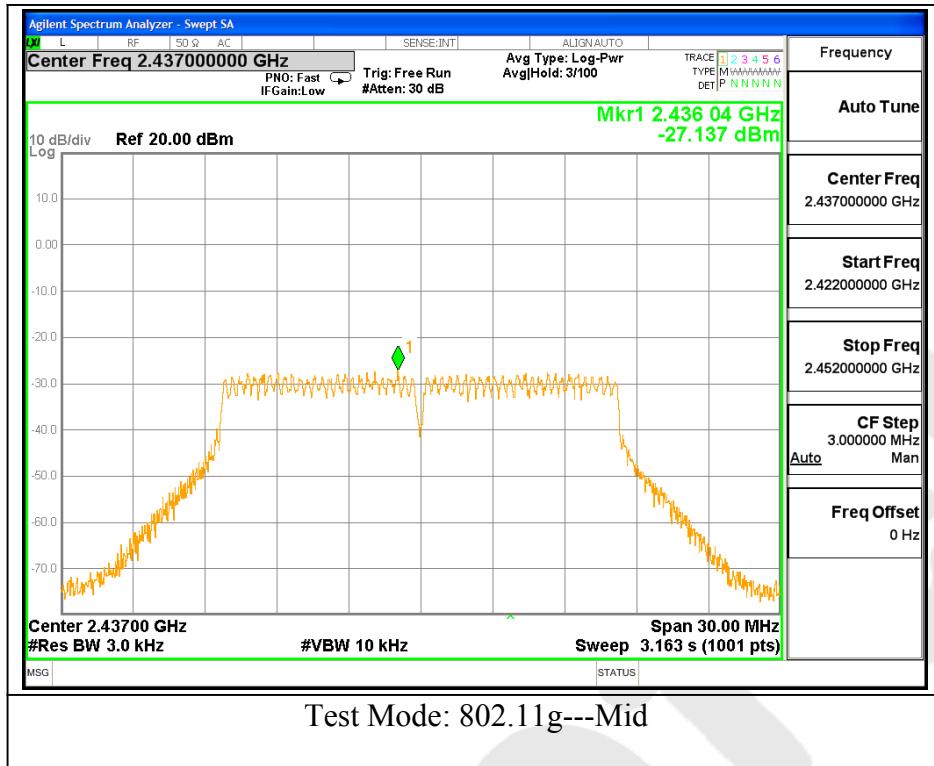
Channel	Frequency (MHz)	PPSD (dBm)	Σ PPSD (dBm)	Limit (dBm)	Result
Low	2412	-26.738	-		Pass
Mid	2437	-27.137	-	8.00	Pass
High	2462	-27.337	-		Pass

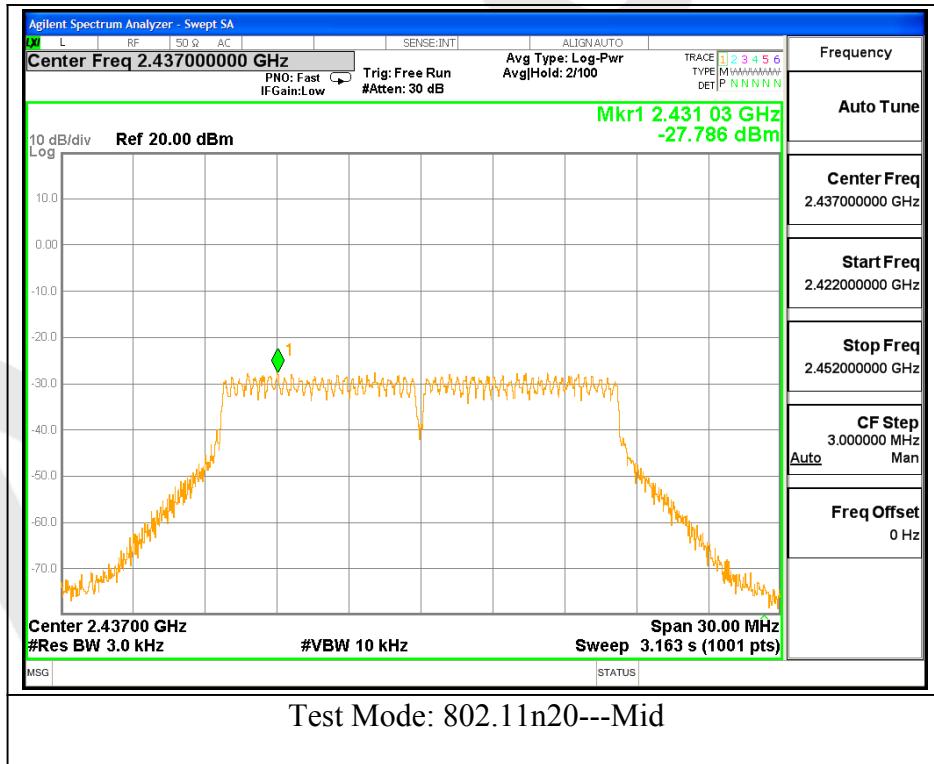
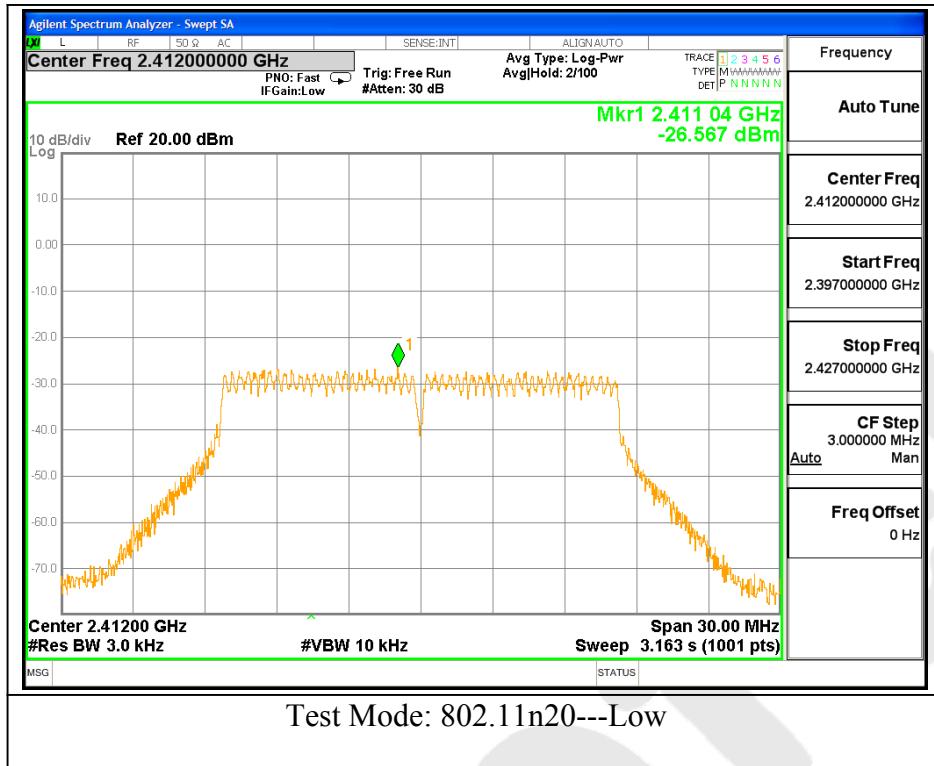
Test mode: IEEE 802.11n (HT20)

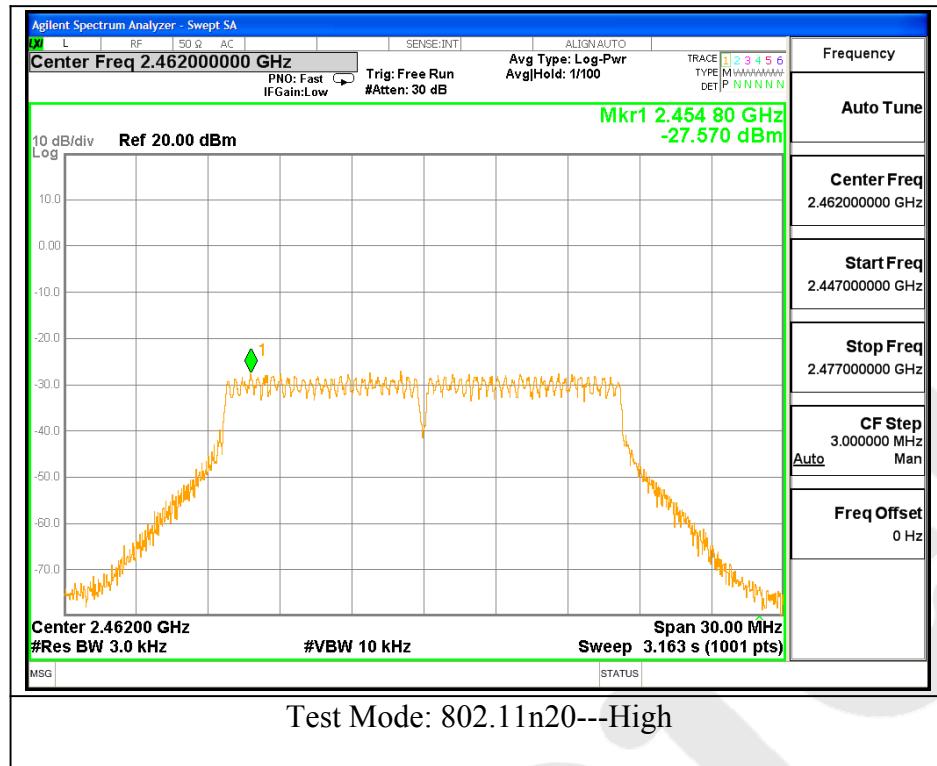
Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-26.567	-		Pass
Mid	2437	-27.786	-	8.00	Pass
High	2462	-27.570	-		Pass











4.6. Radiated Emissions

4.6.1.1. 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

4.6.1.2. Test Limits (\geq 30 MHZ)

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

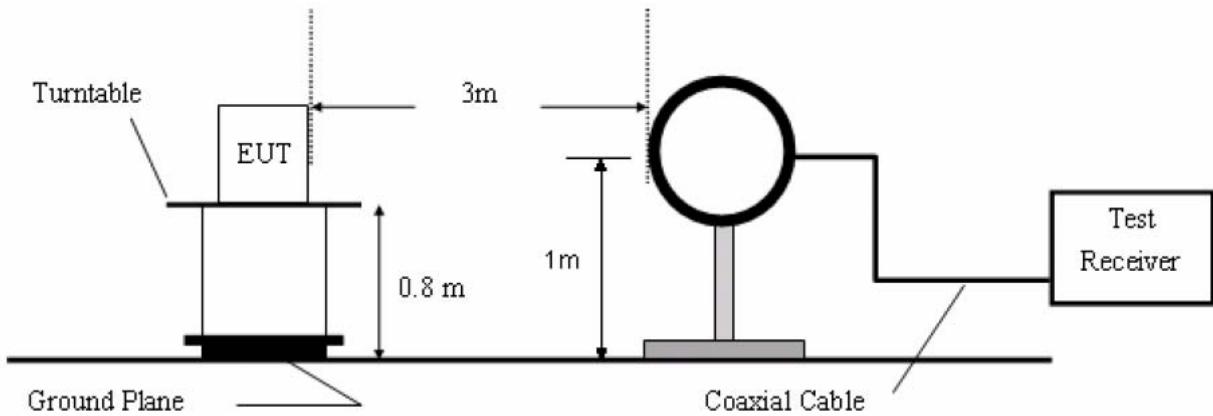
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

Test Equipment

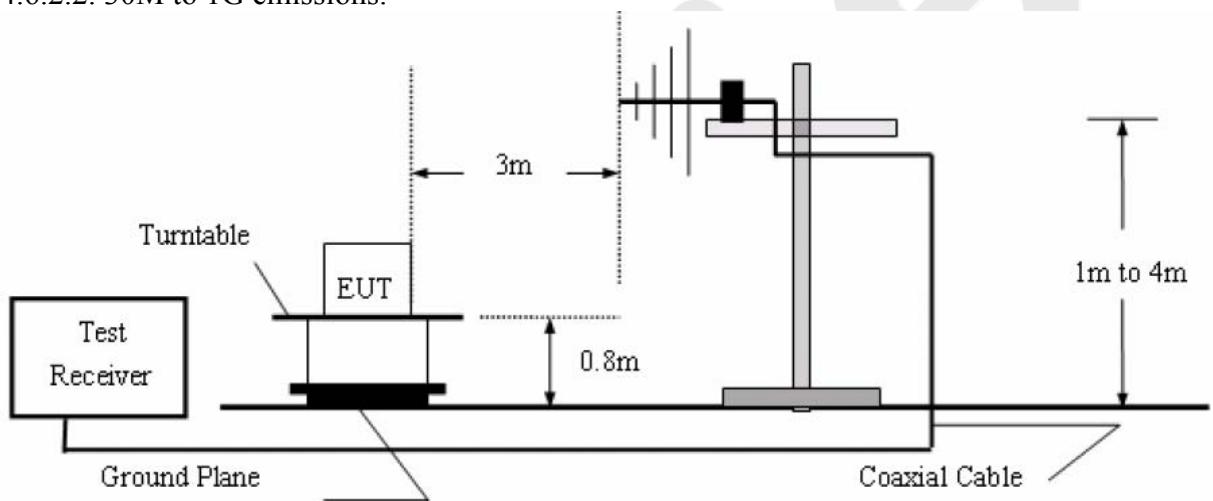
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Jul. 12, 2016	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Jun. 17, 2016	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Jun. 17, 2016	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	May 06, 2016	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 06, 2016	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Jun. 17, 2016	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8	Power Sensor	Agilent	KFSW15050 2	15I00041SN045	Jun. 17, 2016	1 Year
9	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun. 17, 2016	1 Year
10	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun. 17, 2016	1 Year
11	Signal Generator	Agilent	E4421B	MY41000743	Jun. 17, 2016	1 Year
12	DC Power supply	IV	IV-8080	YQSB0096	Jun. 17, 2016	1 Year
13	TEMP&HUMI PROGRAMMABLE CHAMBER	Bell Group	BE-THK-15 0M8	SE-0137	Jun. 17, 2016	1 Year

4.6.2. Test Configuration:

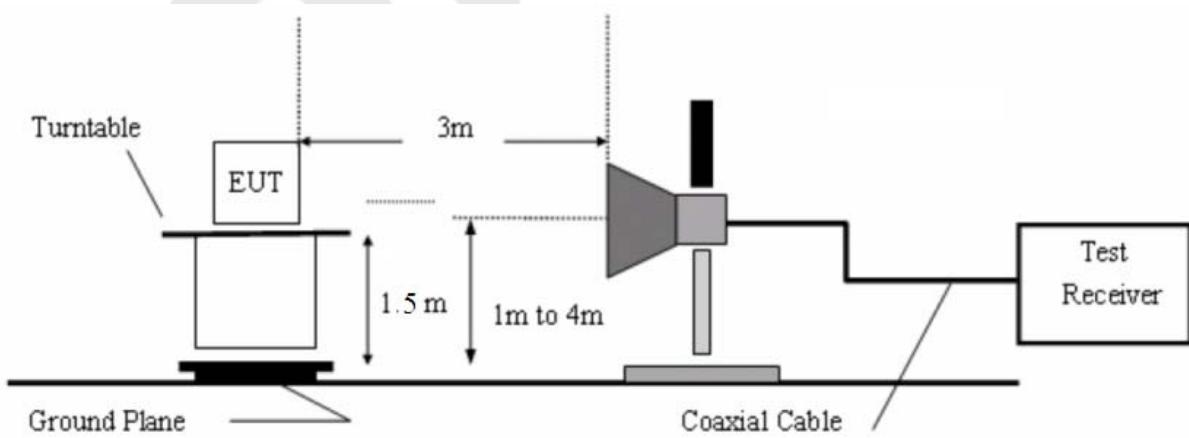
4.6.2.1. 9k to 30MHz emissions:



4.6.2.2. 30M to 1G emissions:



4.6.2.3. 1G to 40G emissions:



4.6.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.
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 device is evaluated in xyz orientation.

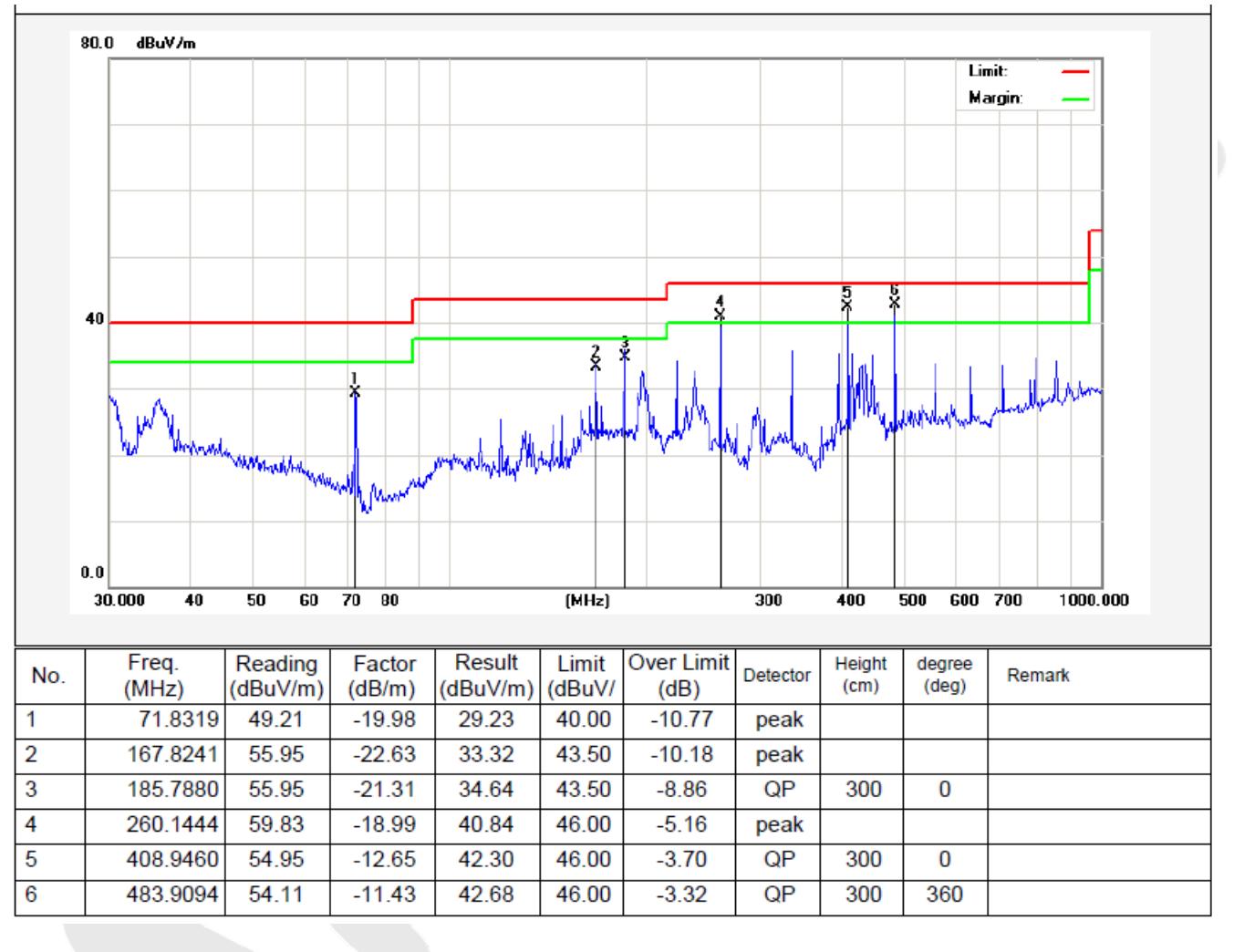
The test results are listed in Section 4.6.4.

4.6.4. Test Results

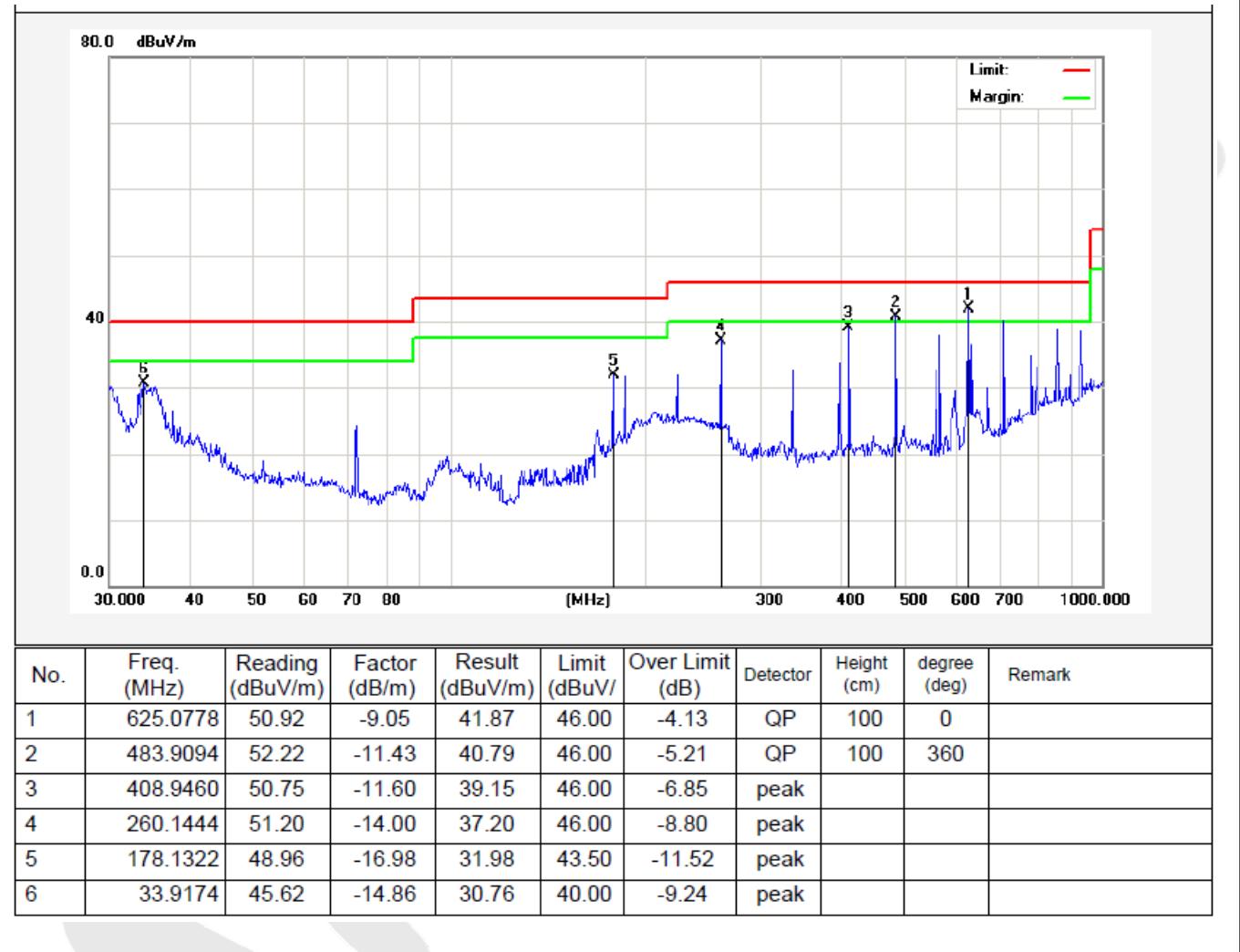
The EUT was tested on (Charging, BT Mode, WiFi Mode) modes, only the worst data of (WiFi Mode) is attached in the following pages.
Only the worst case (x orientation).

The test results of above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

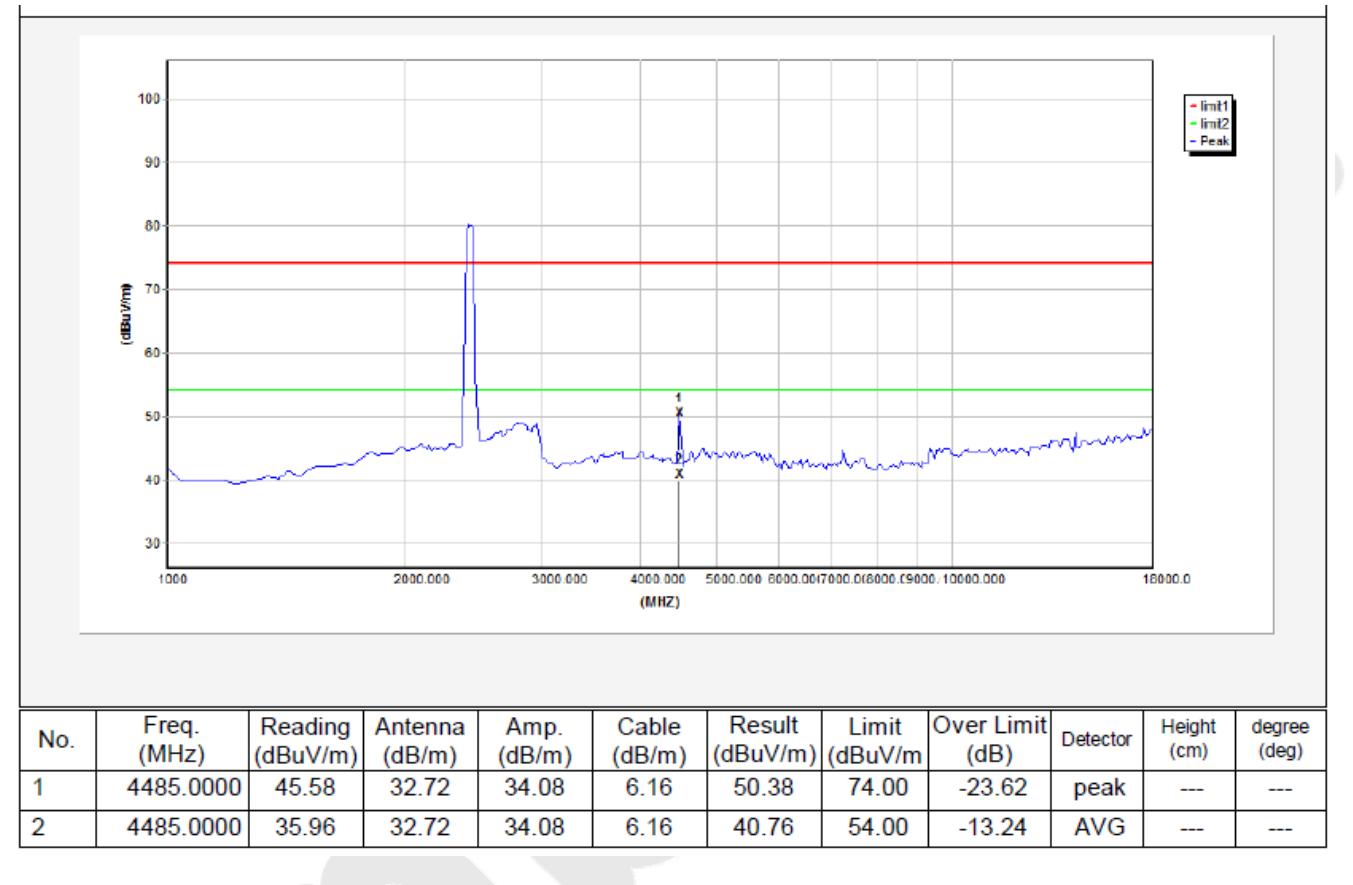
Job No.:	011608398I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH
Test Mode:	WiFi Mode	Distance:	3m



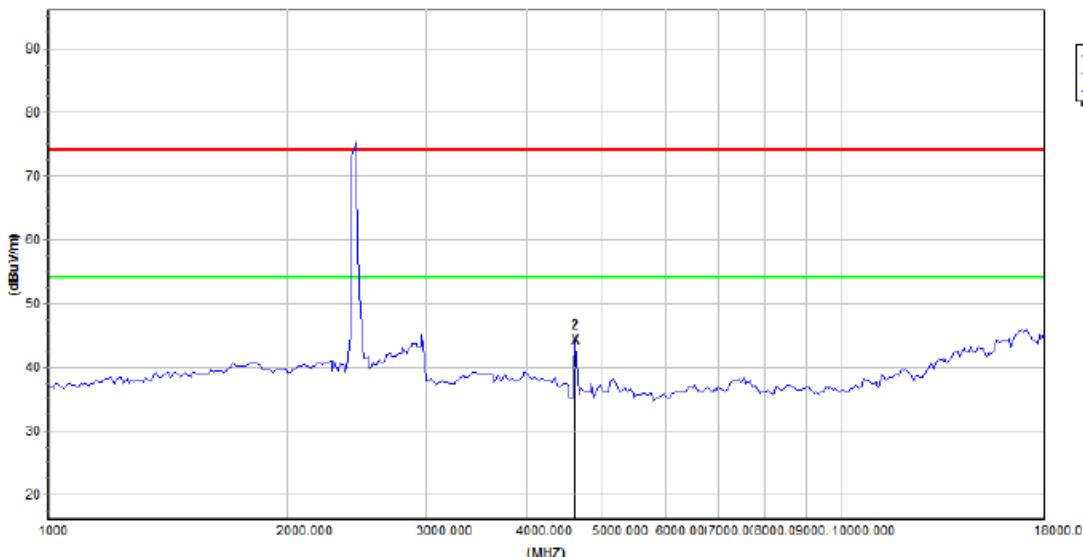
Job No.:	011608398I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH
Test Mode:	WiFi Mode	Distance:	3m



Job No.:	011608398I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH
Note:	802.11b(2412MHz)	Distance:	3m



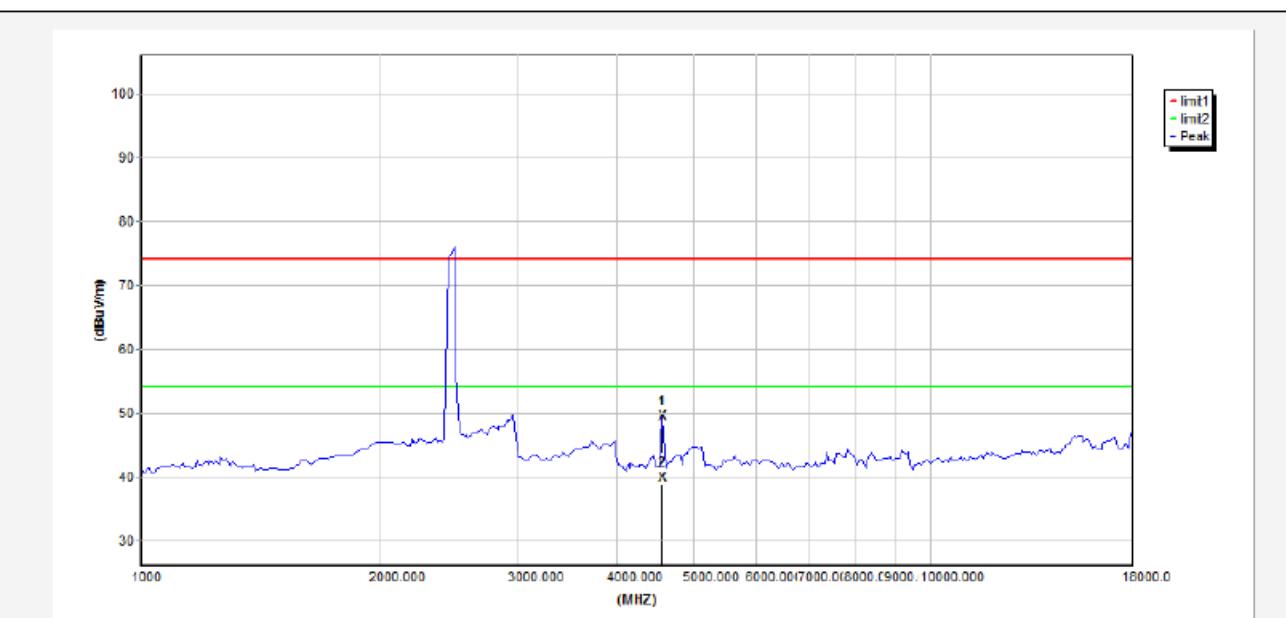
Job No.:	011608398I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH
Note:	802.11b(2412MHz)	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	4612.5000	38.62	33.2	34.09	6.33	44.06	74.00	-29.94	peak	---	---
2	4612.5000	38.62	33.2	34.09	6.33	44.06	54.00	-9.94	AVG	---	---

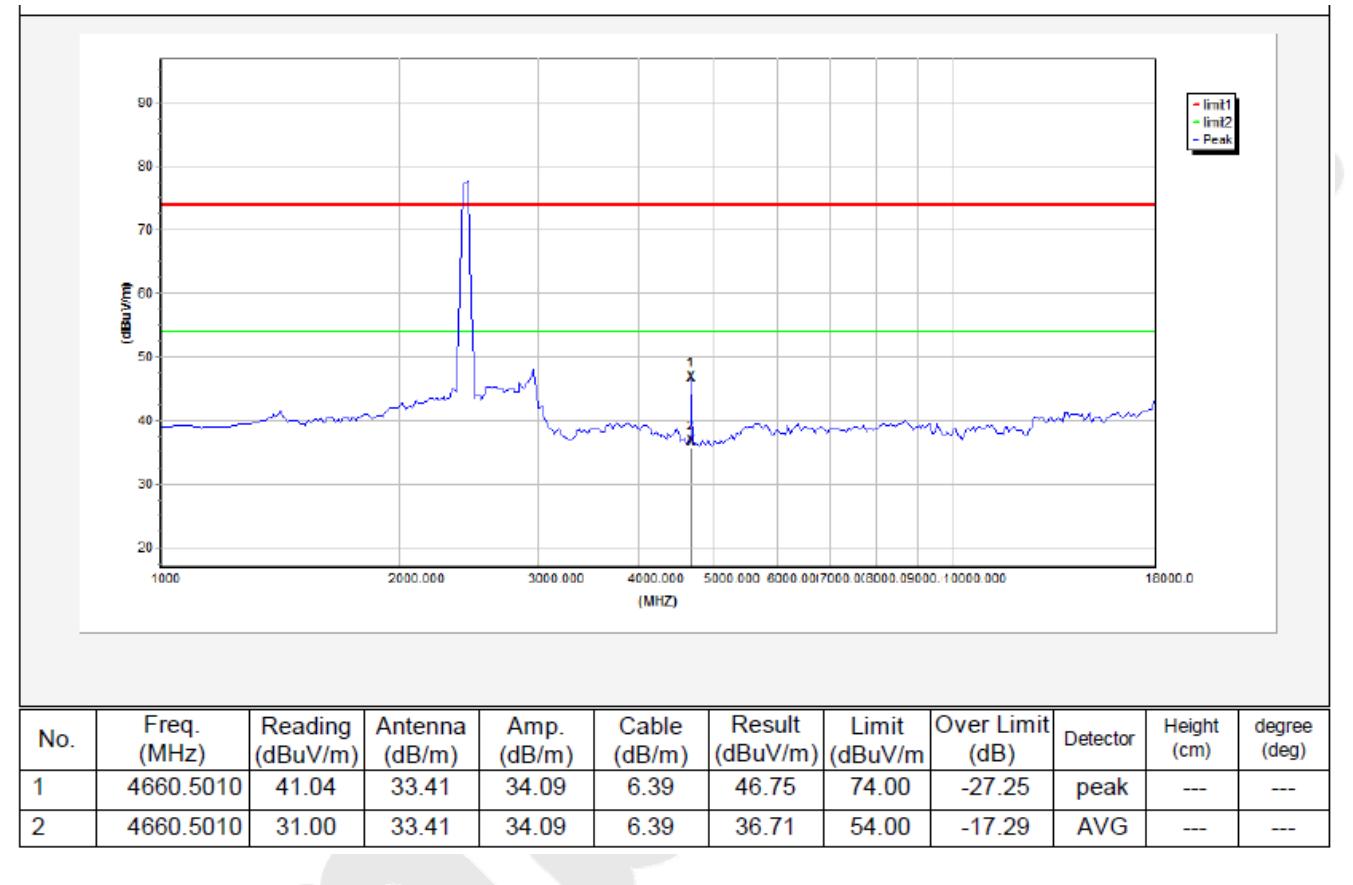
Job No.:	011608398I	Polarization:	Horizontal								
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter								
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH								
Note:	802.11b(2437MHz)	Distance:	3m								
No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	4315.0000	42.18	32.92	34.08	5.94	46.96	74.00	-27.04	peak	---	---
2	4315.0000	31.65	32.92	34.08	5.94	36.43	54.00	-17.57	AVG	---	---

Job No.:	011608398I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH
Note:	802.11b(2437MHz)	Distance:	3m

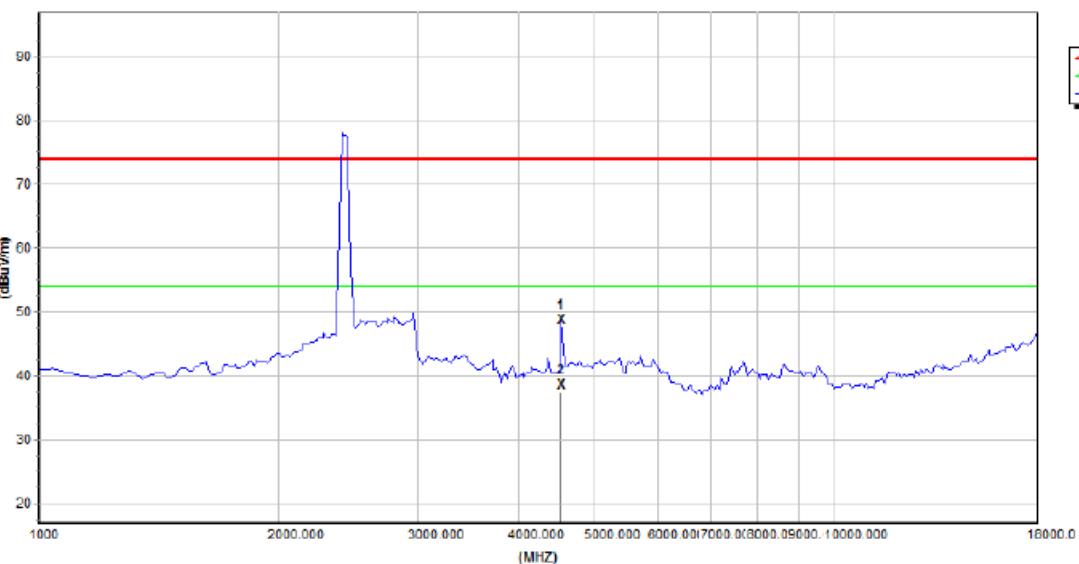


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	4570.0000	44.10	33.01	34.09	6.28	49.30	74.00	-24.70	peak	---	---
2	4570.0000	34.47	33.01	34.09	6.28	39.67	54.00	-14.33	AVG	---	---

Job No.:	011608398I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH
Note:	802.11b(2462MHz)	Distance:	3m



Job No.:	011608398I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.6(C)/53%RH
Note:	802.11b(2462MHz)	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	4527.7232	43.66	32.82	34.09	6.22	48.61	74.00	-25.39	peak	---	---
2	4527.7232	33.61	32.82	34.09	6.22	38.56	54.00	-15.44	AVG	---	---

5. ANTENNA APPLICATION

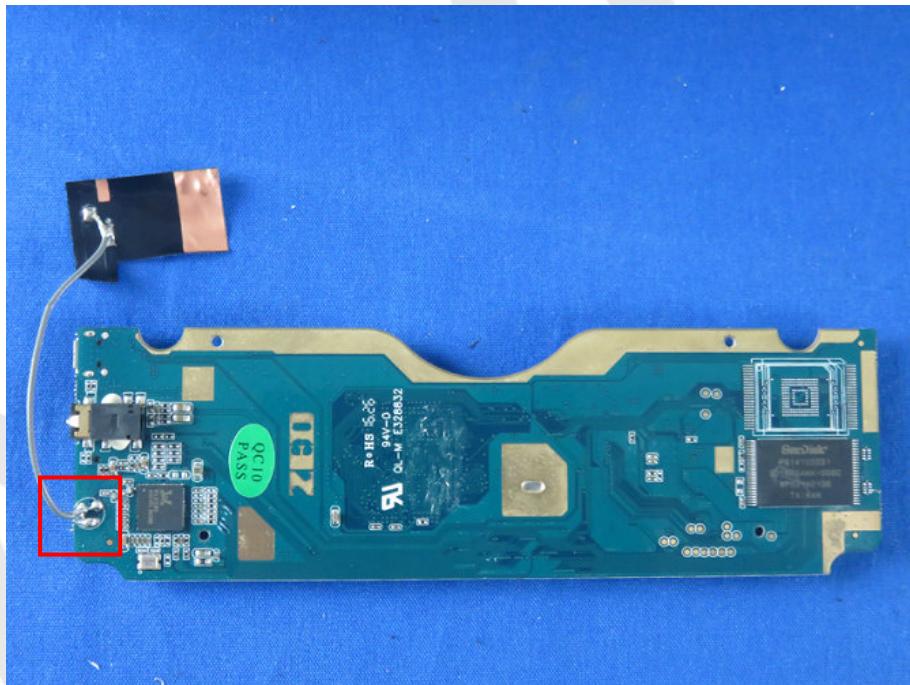
5.1. Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

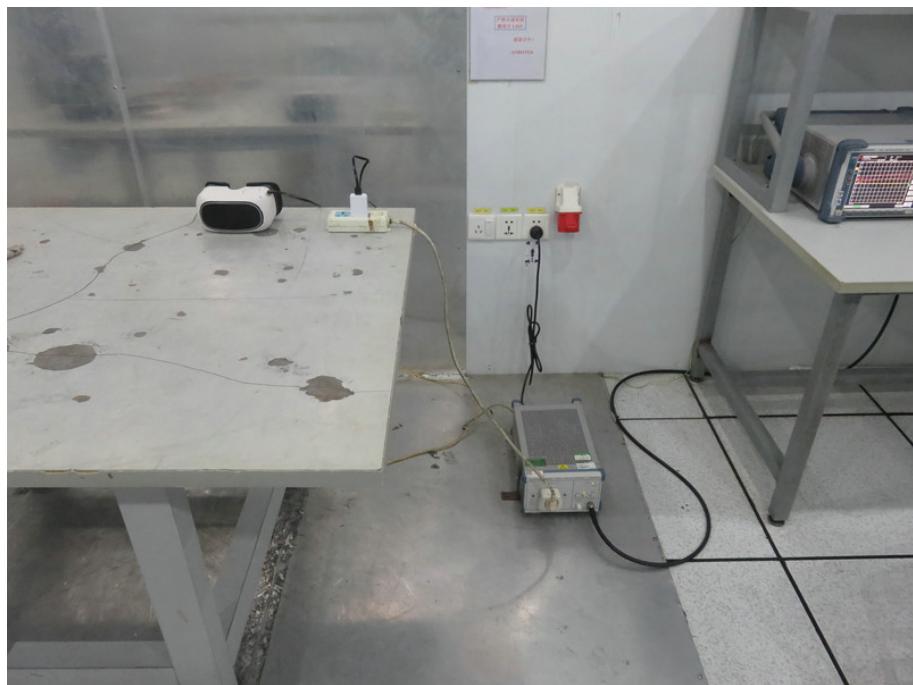
5.2. Result

The EUT's antenna used a external antenna which is permanently attached, The antenna's gain is 2dBi and meets the requirement.

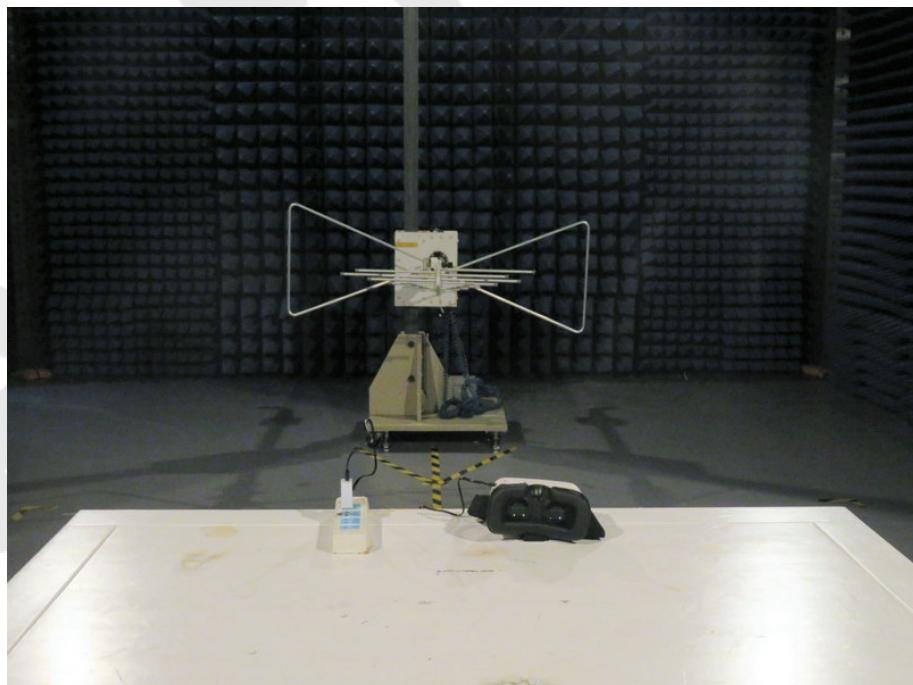


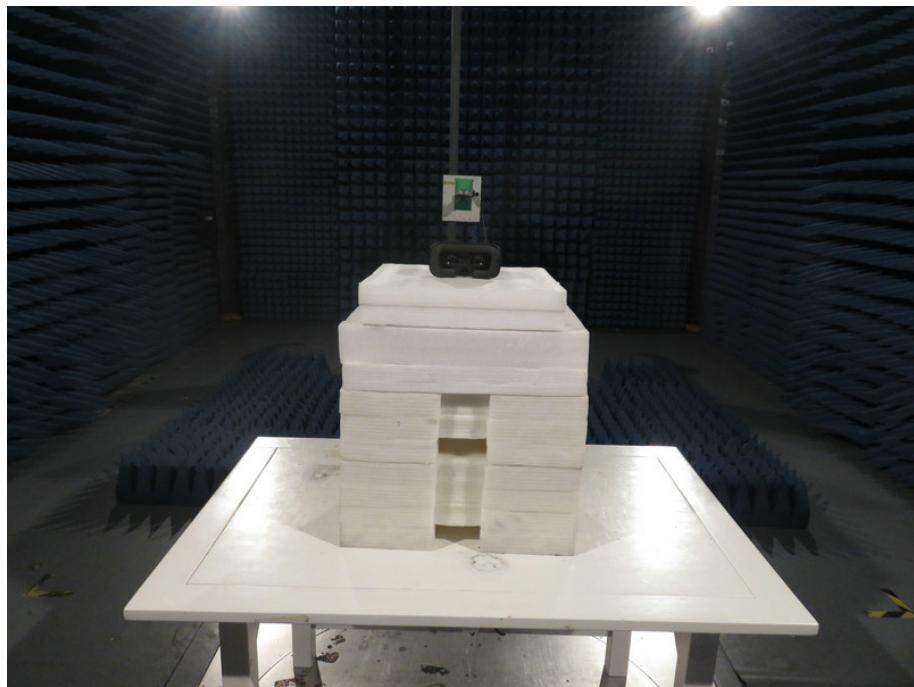
6. PHOTOGRAPH

6.1. Photo of Conducted Emission Measurement



6.2. Photo of Radiation Emission Test





Anbotek

APPENDIX I (EXTERNAL PHOTOS)

1. Figure



2. Figure



3. Figure



4. Figure



5. Figure



6. Figure



7. Figure

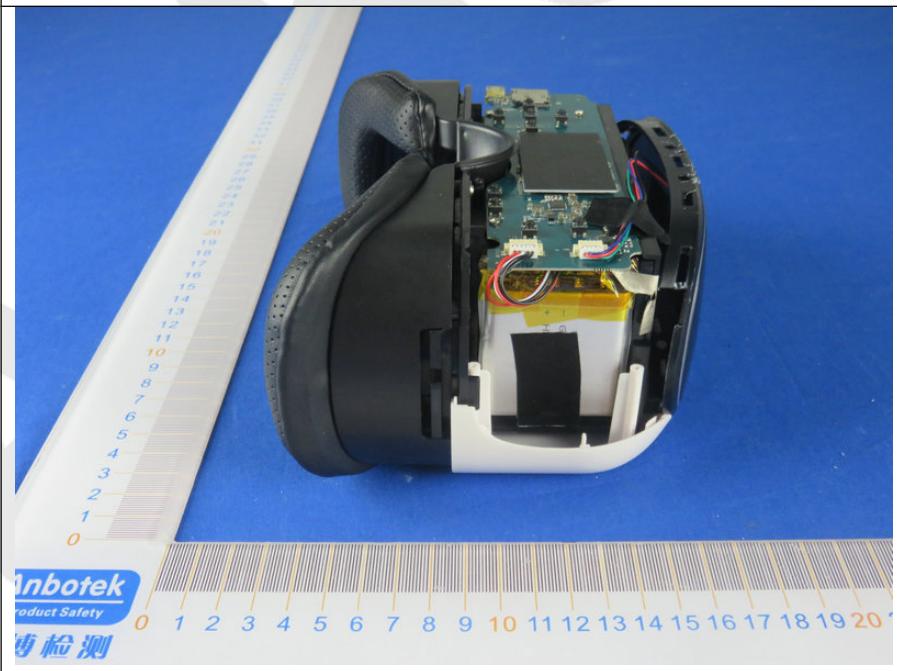


APPENDIX II (INTERNAL PHOTOS)

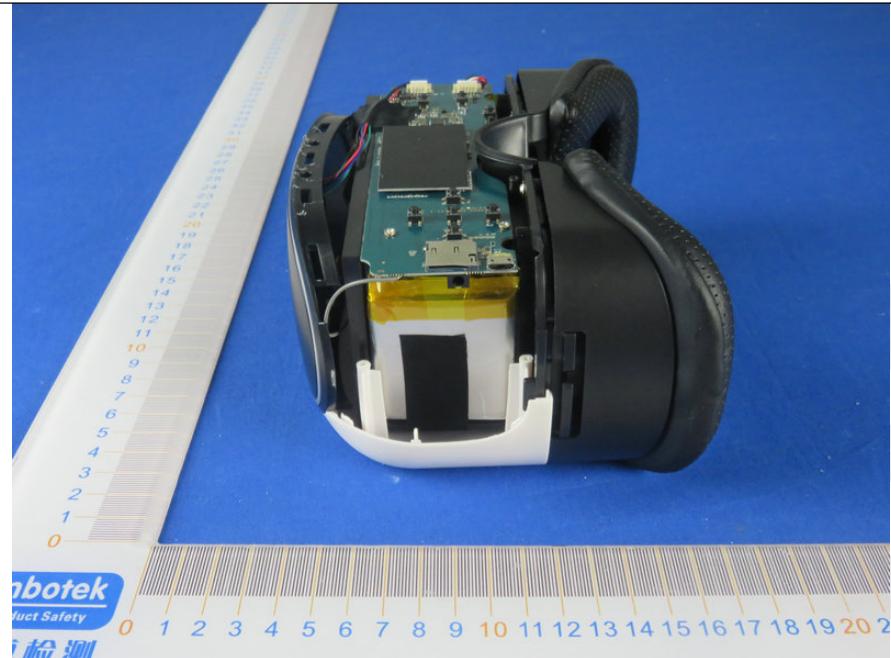
1. Figure



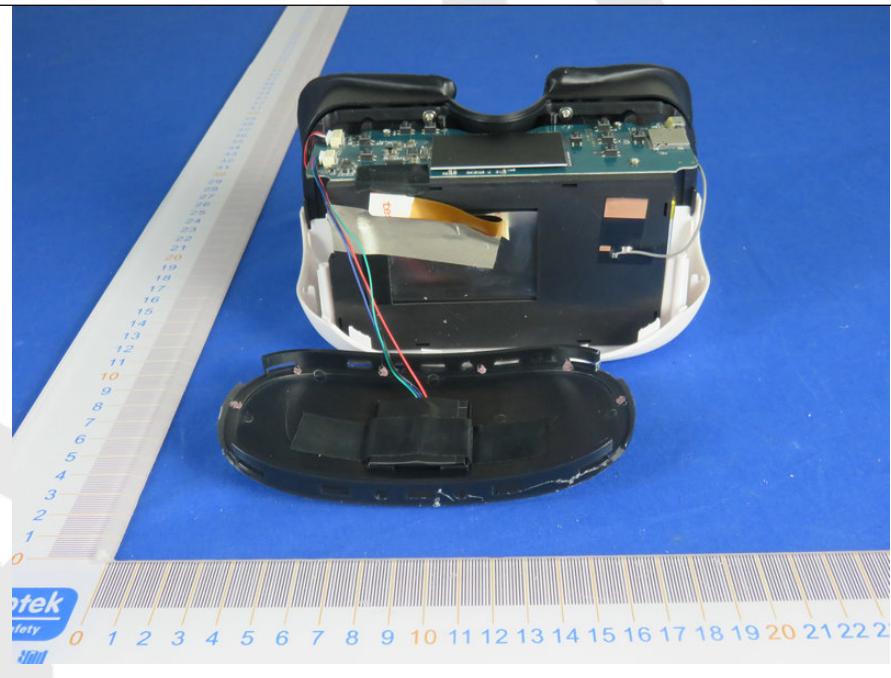
2. Figure



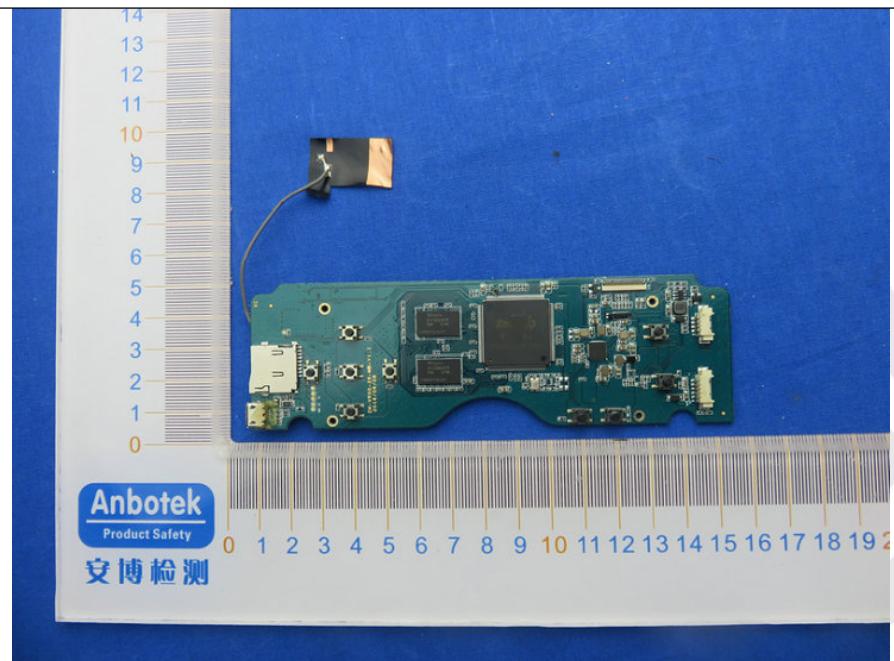
3. Figure



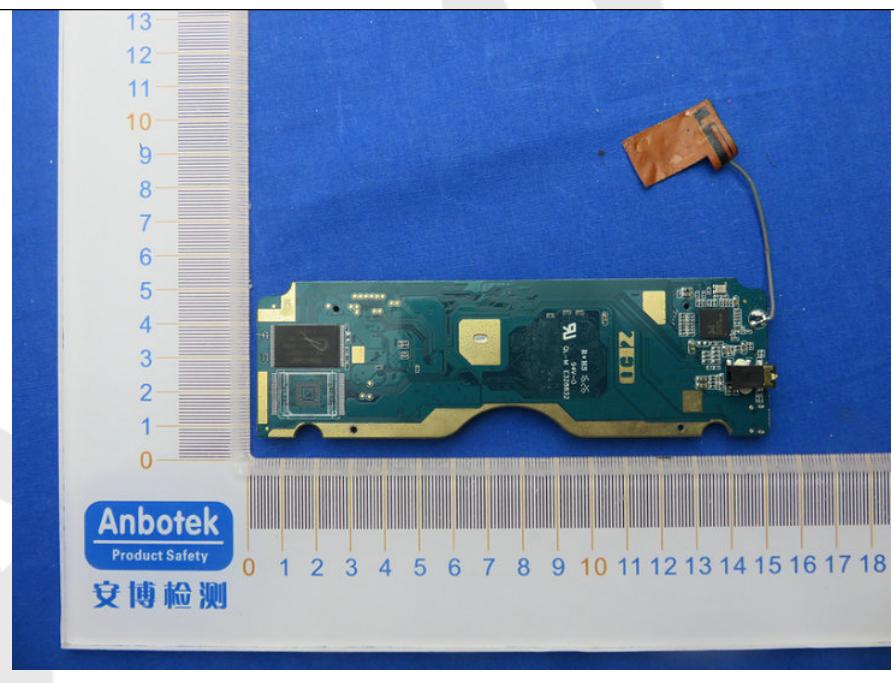
4. Figure



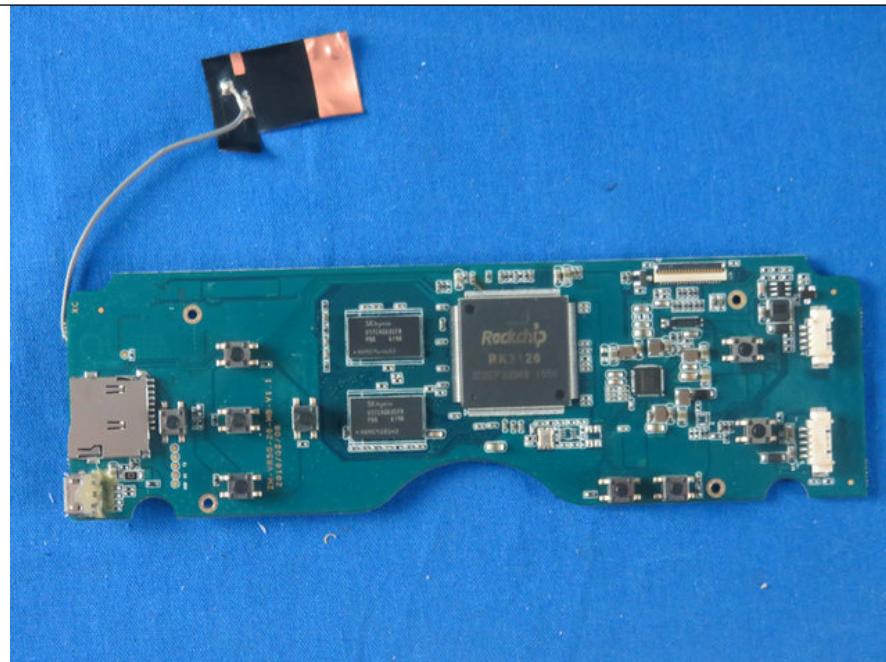
5. Figure



6. Figure



7. Figure



8. Figure

