



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Applicant: Shenzhen KEP Technology Co., Ltd

Address: 4th floor south, Building B20, Heng Feng Industrial Area, Xixiang Town, Bao'an District, Shenzhen, China, 518126

Product Name: Tablet PC

Model Name: K-B708, SAT716Z

Brand Name: N/A

FCC ID: 2AAJFK-B708

Report No.: DPH130617F02

Date of Issue: June 25, 2013

Issued by: Shenzhen Top-cert Service Co., Ltd.

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Revision History		
Issue	Date	Reason for Revision
1.0	June 25, 2013	First edition

1. VERIFICATION OF CONFORMITY

Equipment Under Test:	Tablet PC
Brand Name:	N/A
Model Number:	K-B708
Series Model Name:	SAT716Z
Difference description:	Only the model name and color is different.
FCC ID:	2AAJFK-B708
Applicant:	Shenzhen KEP Technology Co., Ltd 4th floor south, Building B20, Heng Feng Industrial Area, Xixiang Town, Bao'an District, Shenzhen, China, 518126
Manufacturer:	Shenzhen KEP Technology Co., Ltd 4th floor south, Building B20, Heng Feng Industrial Area, Xixiang Town, Bao'an District, Shenzhen, China, 518126
Technical Standards:	47 CFR Part 15 Subpart C
File Number:	DPH130617F02
Date of test:	June 11, 2013 - June 25, 2013
Date of issue:	June 25, 2013
Condition of Test Sample:	Normal
Test Result:	PASS

The above equipment was tested by Top-cert. For compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Rex Luo

Rex Luo
Test Engineer



Approved by (+ signature):

Joe Jia

Joe Jia
Manager

2. GENERAL INFORMATION

2.1 Product Information

Description:	Tablet PC
Brand Name:	N/A
Model Name:	K- B708
Frequency Range:	2412MHz-2462MHz
Test Frequency:	Low: 2412MHz, Mid: 2437MHz, High: 2462MHz
Number of Channels:	11 Channels
Modulation Technique:	IEEE 802.11b mode: DSSS (1, 2, 5.5 and 11 Mbps) IEEE 802.11g mode: OFDM (6, 9, 12, 18, 24, 36, 48 and 54 Mbps)
Antenna Type:	Internal
Antenna Gain:	0 dBi
Power Supply:	DC 3.7V by Battery DC 5V by AC/DC adapter
Temperature Range:	-20°C ~ +50°C

NOTE:

1. For more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15(10-1-09 Edition)	Radio Frequency Devices

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.247(a)(2)	6dB Bandwidth	PASS	2013-06-25
2	15.247(b)(3)	Peak Output Power	PASS	2013-06-25
3	15.247(d)	conducted spurious emission	PASS	2013-06-25
4	15.247(d)	Band Edge	PASS	2013-06-25
5	15.247(e)	Power Spectral Density	PASS	2013-06-25
6	15.207	Conducted Emission	PASS	2013-06-22
7	15.247(d) 15.205 15.209	Radiated Emission	PASS	2013-06-22

Note: 1. The test result judgment is decided by the limit of measurement standard
 2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY

3.1 Test Facility

Test Site:	Most Technology Service Co., Ltd.
Location:	No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements. The FCC Registration Number is 490827 .
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

3.2 General Test Procedures

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009,Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC Part 15.205 Restricted Bands of Operations

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasipeak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

4. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1/ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/03/09
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2014/03/09
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014/03/09
4	Terminator	Hubersuhner	50Ω	No.1	2014/03/09
5	RF Cable	SchwarzBeck	N/A	No.1	N/A
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2014/03/09
7	Test Antenna – Horn	Schwarzbeck	BBHA 9120C	--	2014/03/02
8	Test Antenna – Bi-Log	Schwarzbeck	VULB 9163	--	2014/03/02
9	Power Splitter	Weinschel	1506A	NW521	N/A
10	Spectrum Analyzer	Agilent	4408B	MY41440460	2014/03/09
11	Cable	Resenberger	N/A	NO.1	2014/03/02
12	Cable	SchwarzBeck	N/A	NO.2	2014/03/02
13	Cable	SchwarzBeck	N/A	NO.3	2014/03/02
14	Signal Generator	IFR	2032	203002/100	2014/03/09
15	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2014/03/09
16	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2014/03/02
17	DC Power Supply	Good Will	GPS-3030DD	EF920938	2014/03/09
18	Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014/03/09

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C 15.247 Requirements

5.1 6dB Bandwidth

5.1.1 Definition

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.1.2 Test Description

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 50Ohm.

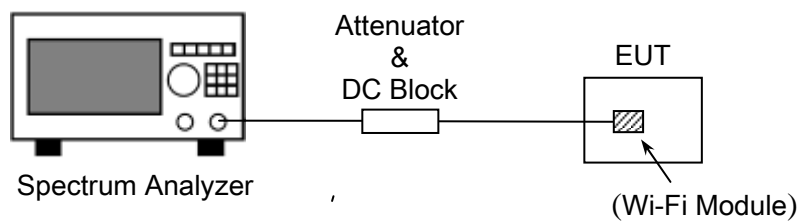


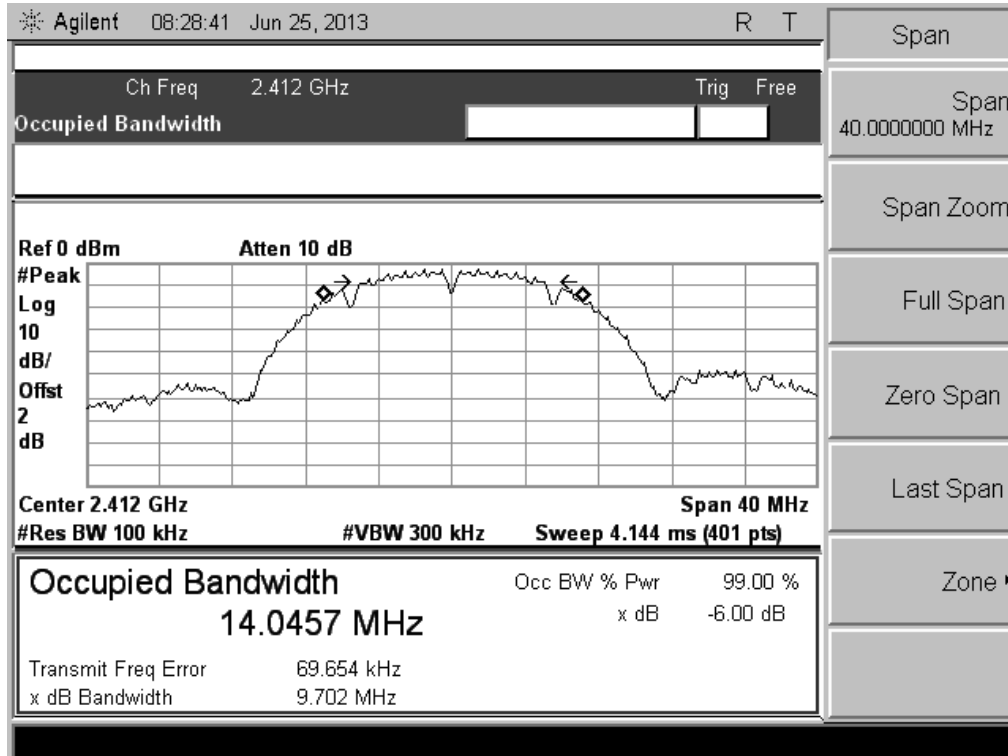
Figure 1: RF Test Setup

5.1.3 Test Result

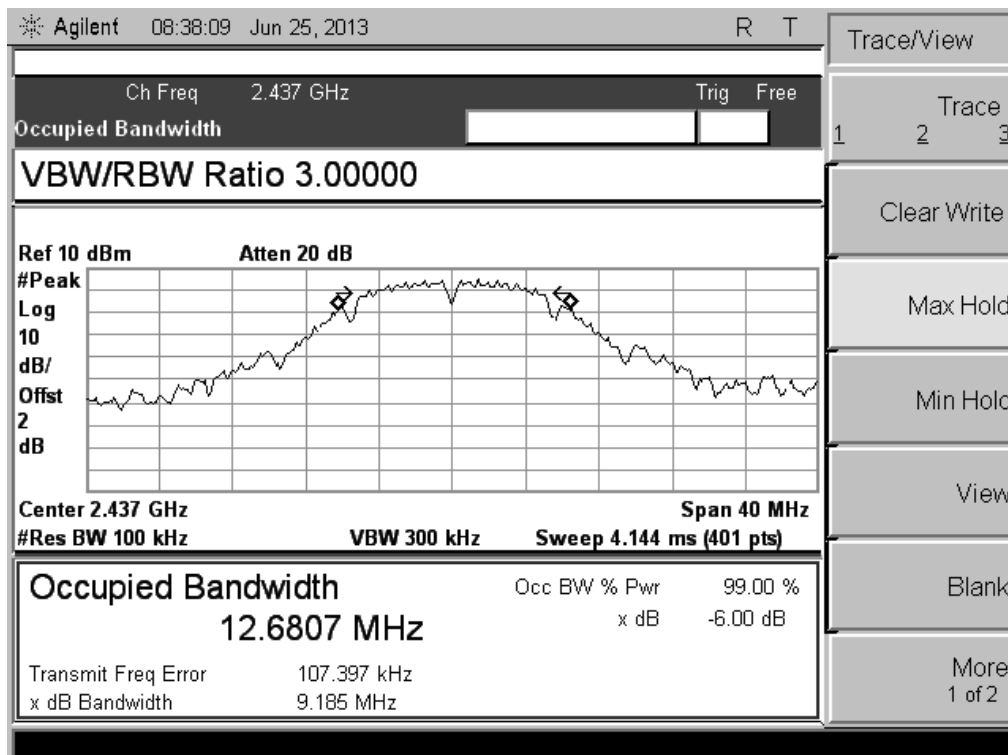
The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

802.11b Test Mode

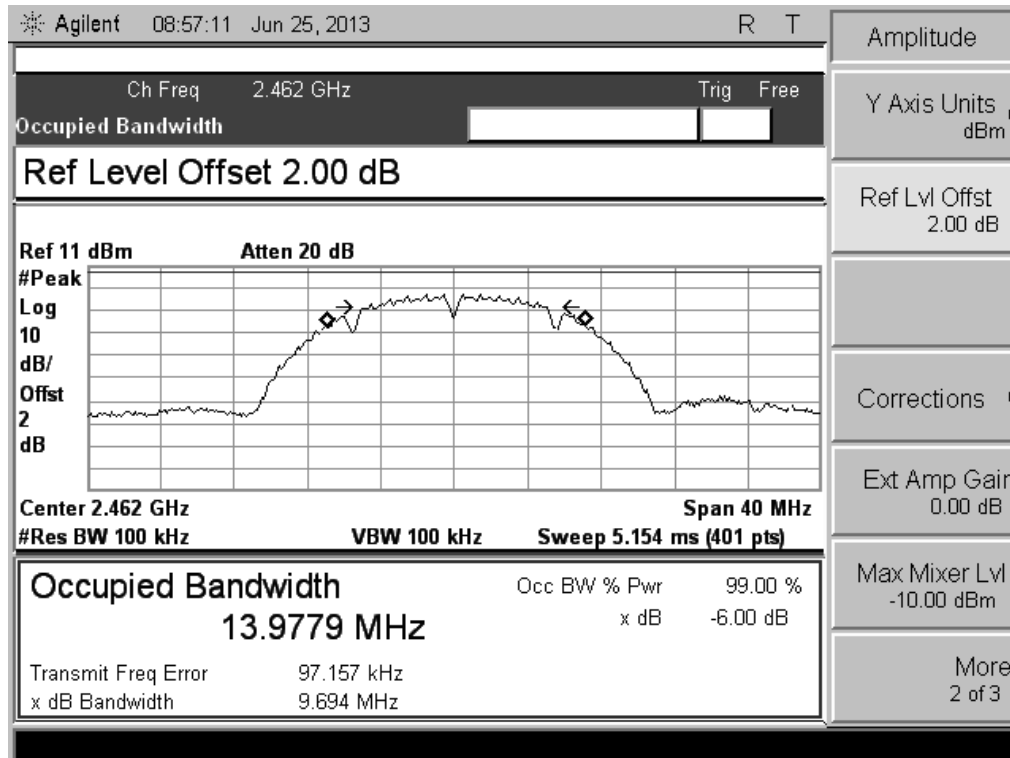
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	9.702	≥500	PASS
6	2437	9.185	≥500	PASS
11	2462	9.694	≥500	PASS



(CH Low)



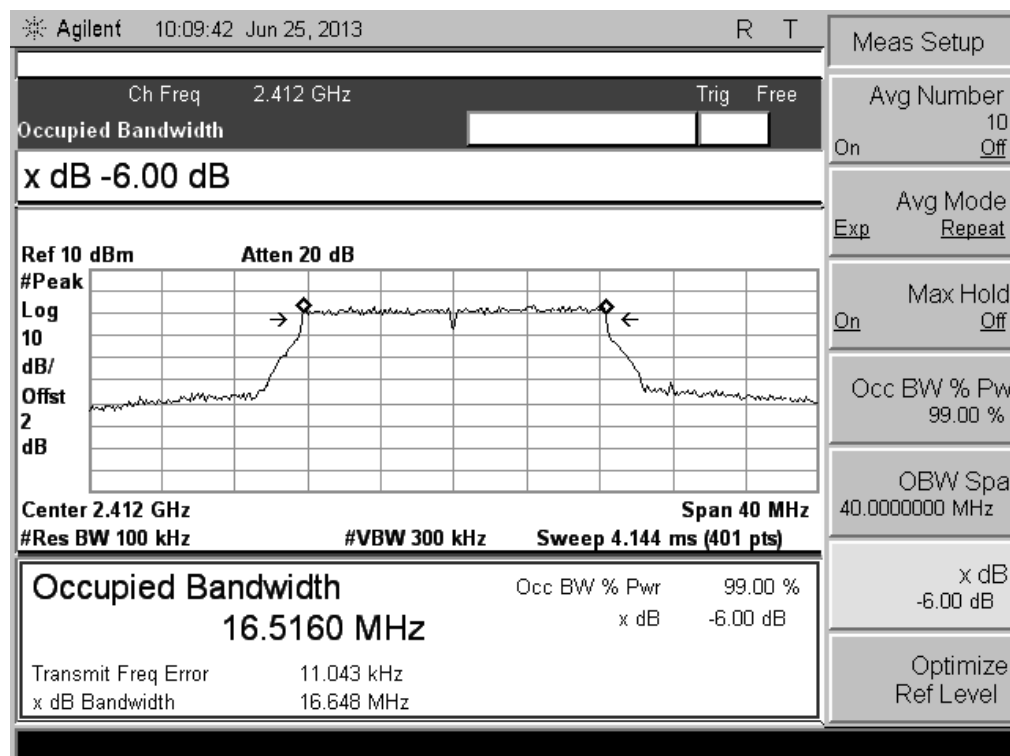
(CH Mid)



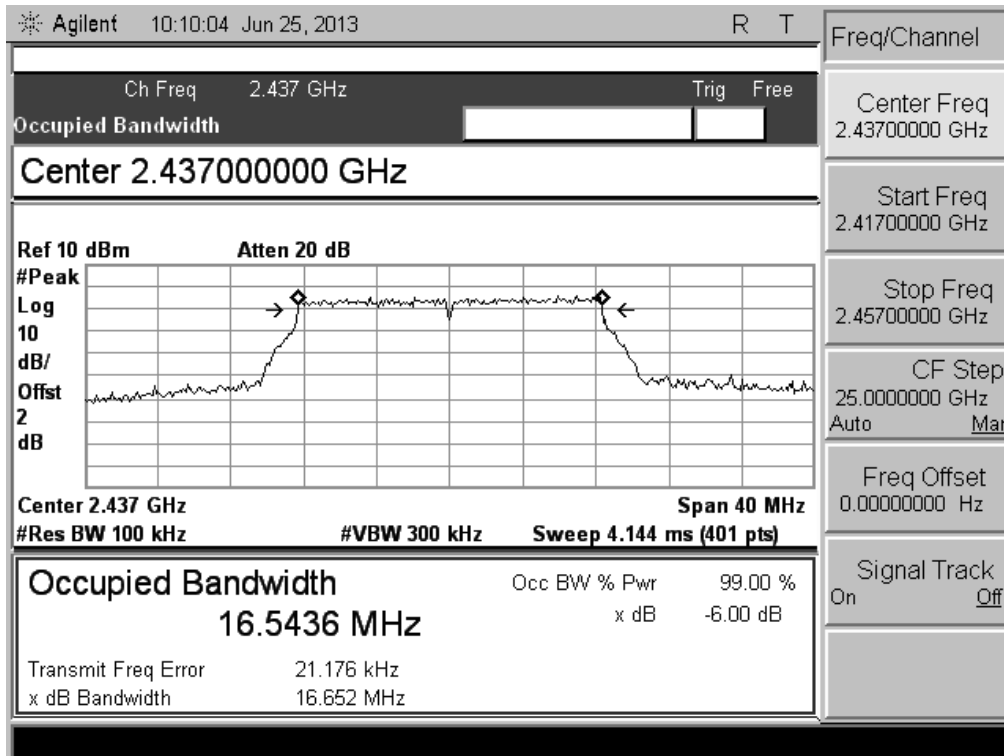
(CH High)

802.11g Test Mode

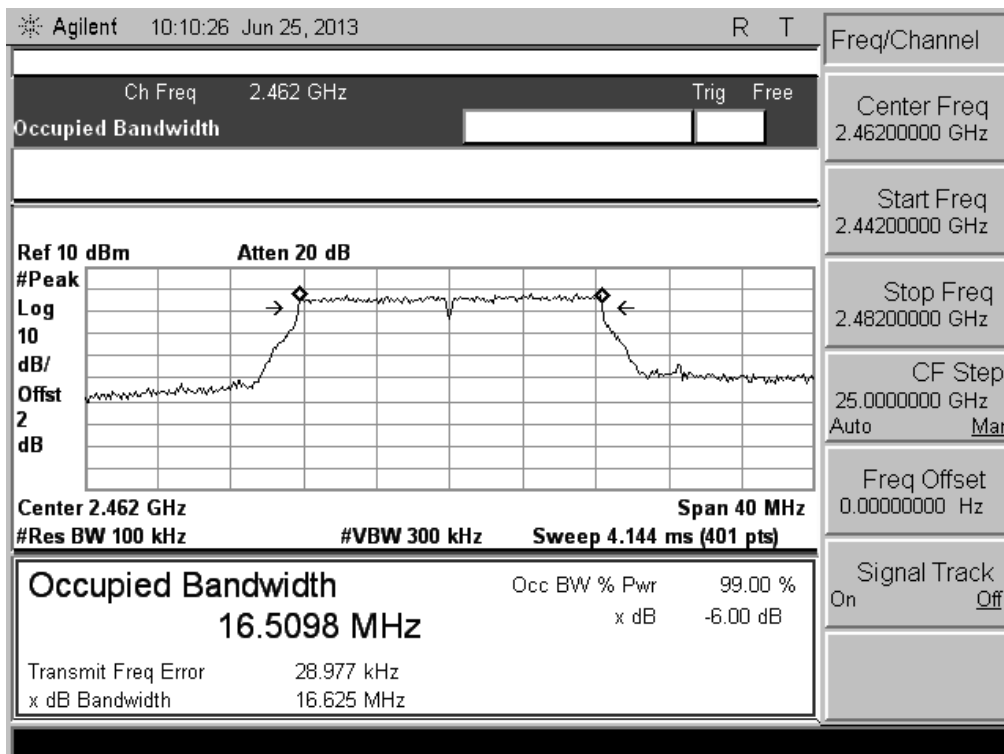
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.648	≥500	PASS
6	2437	16.652	≥500	PASS
11	2462	16.625	≥500	PASS



(CH Low)



(CH Mid)



(CH High)

5.2 Peak Output Power

5.2.1 Definition

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

5.2.2 Test Description

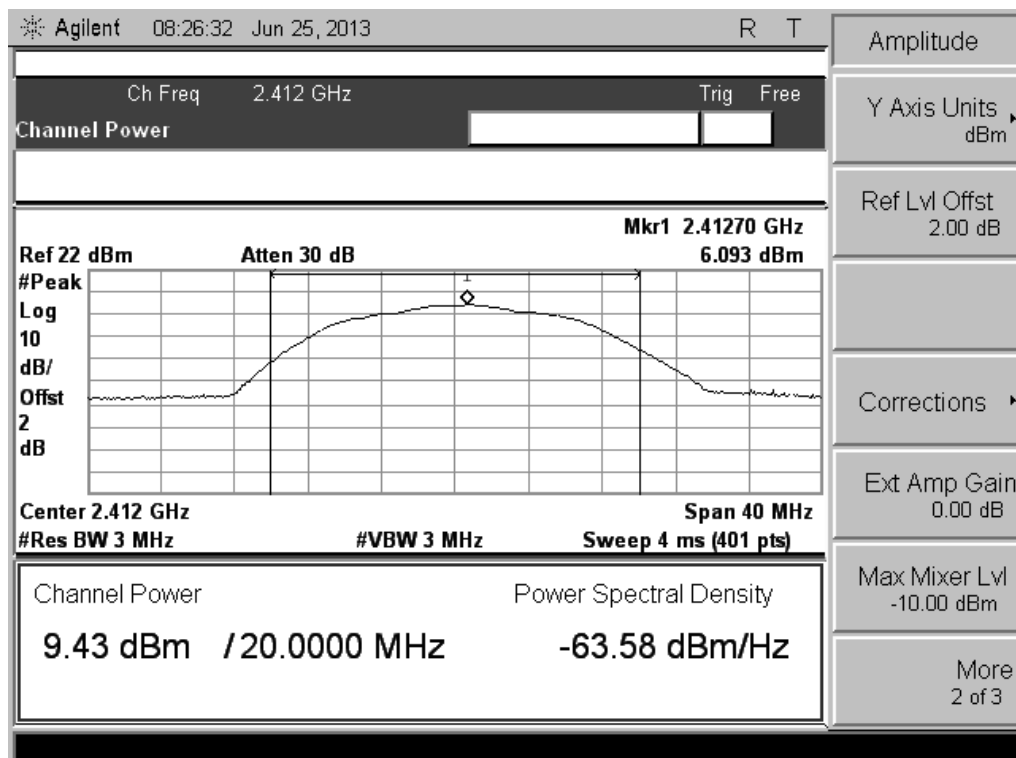
See section 5.1.2 of this report.

5.2.3 Test Result

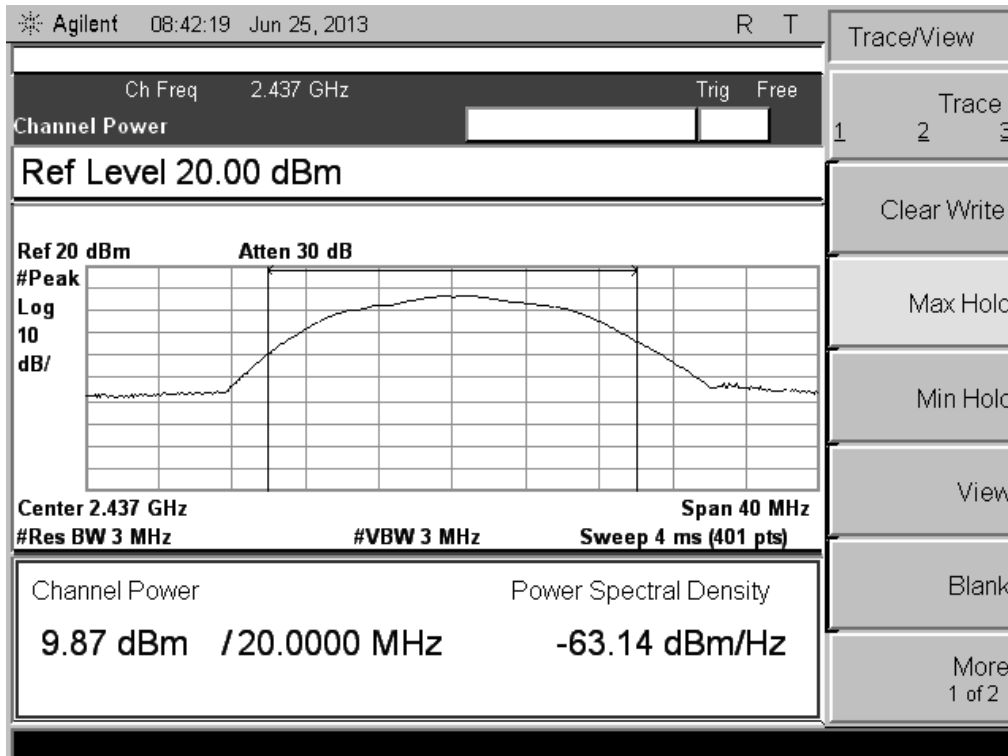
The lowest and highest data rate are selected to perform testing to verify the conducted RF output peak power of the Module. Only the maximum conducted RF output peak power recorded in the report.

802.11b Test Mode

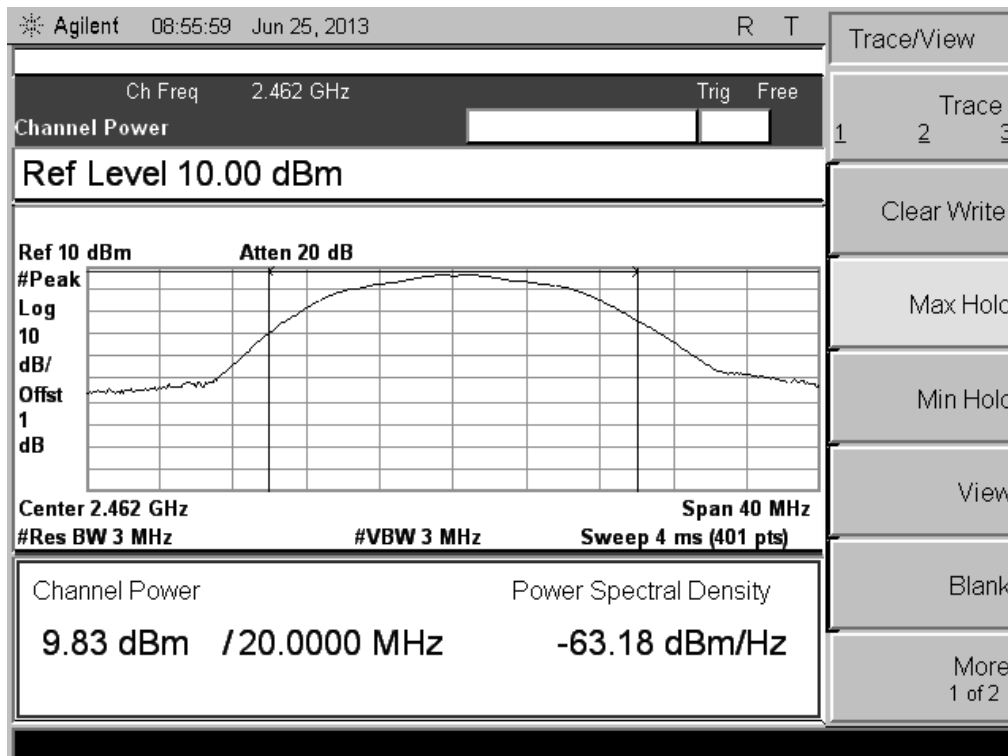
Channel	Frequency (MHz)	Rate (Mbps)	Measured Output Peak Power		Limit		Verdict
			dBm	W	dBm	W	
1	2412	1Mbps	9.43	0.0088	30	1	PASS
6	2437	1Mbps	9.87	0.0097			PASS
11	2462	1Mbps	9.83	0.0096			PASS



(CH Low)



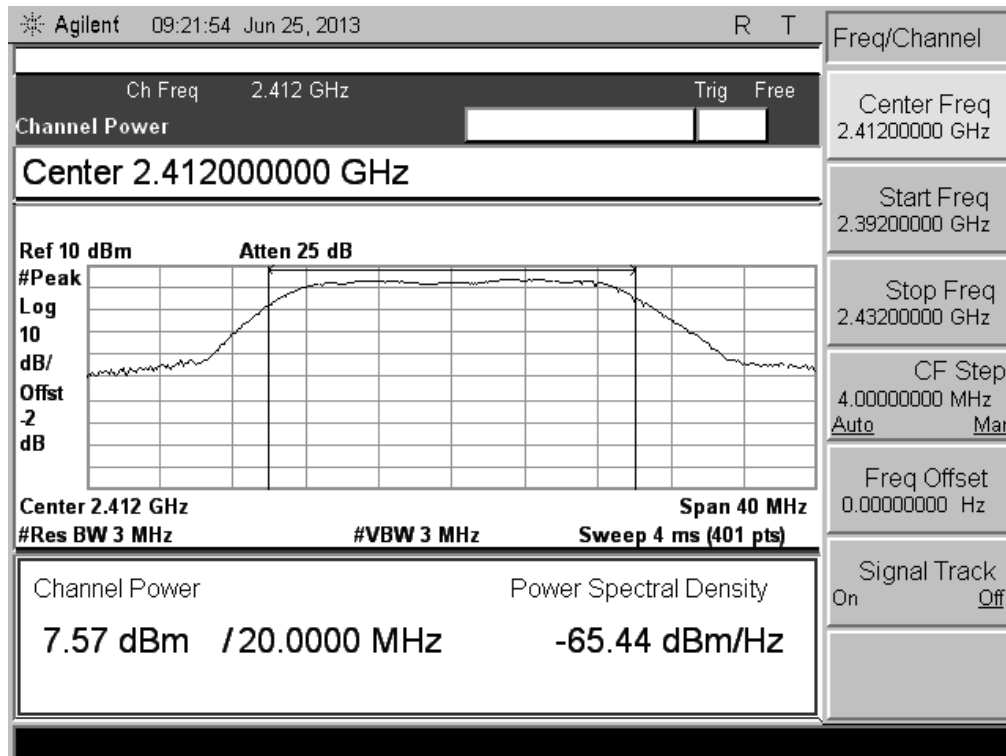
(CH Mid)



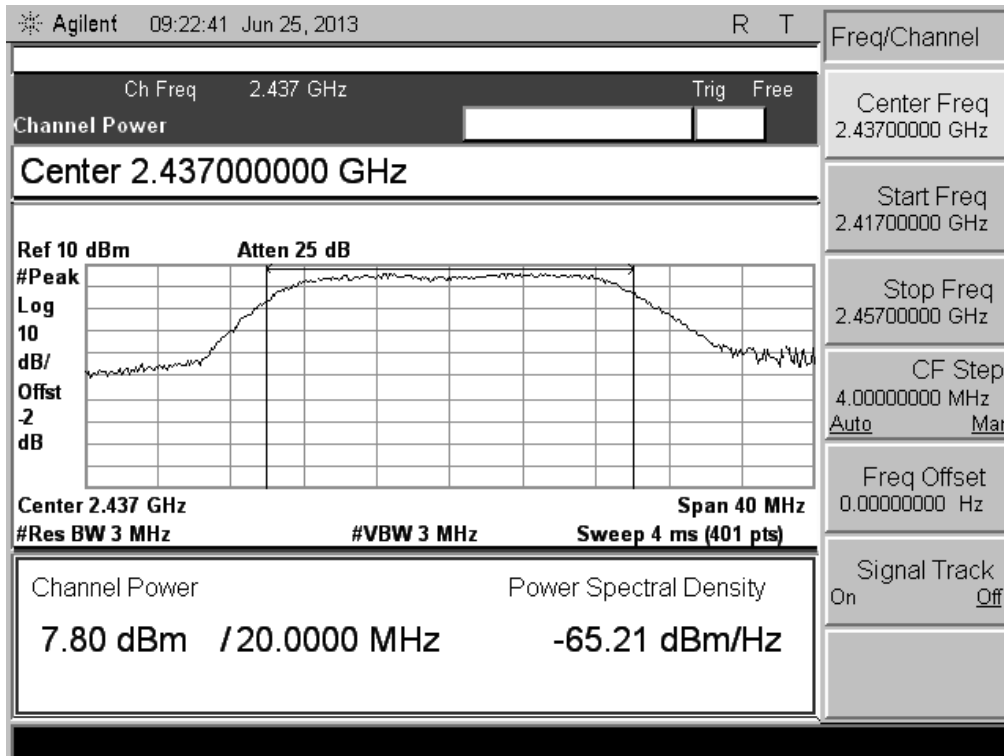
(CH High)

802.11g Test Mode

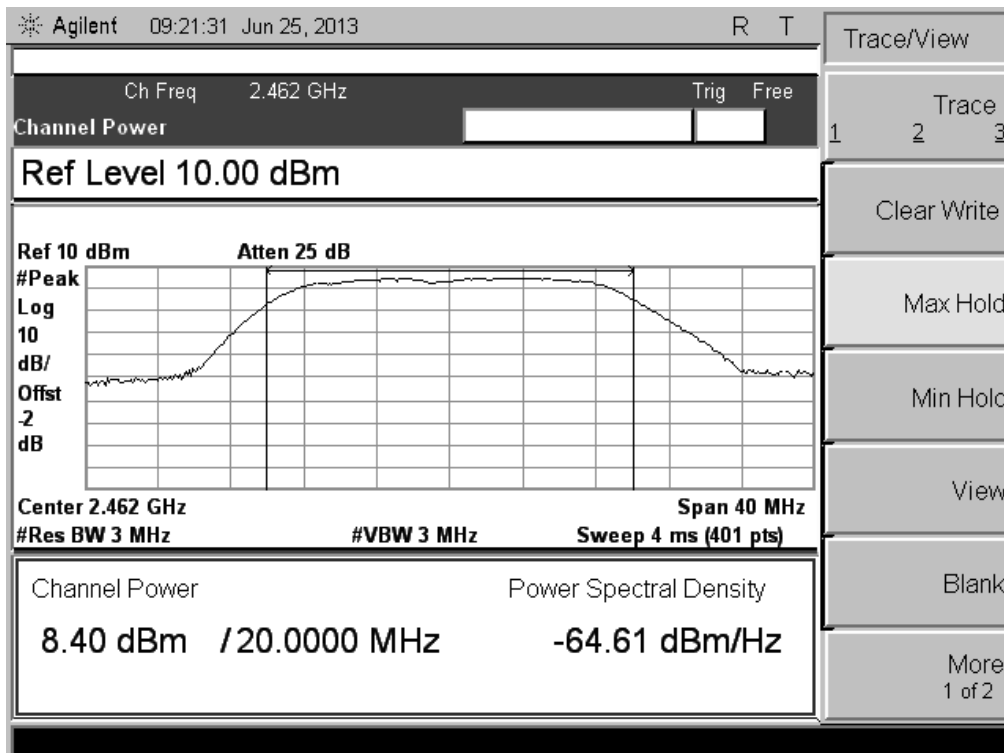
Channel	Frequency (MHz)	Rate (Mbps)	Measured Output Peak Power		Limit		Verdict
			dBm	W	dBm	W	
1	2412	6Mbps	7.57	0.0057	30	1	PASS
6	2437	6Mbps	7.80	0.0060			PASS
11	2462	6Mbps	8.40	0.0069			PASS



(CH Low)



(CH Mid)



(CH High)

5.3 Conducted Spurious Emission

5.3.1 Definition

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.

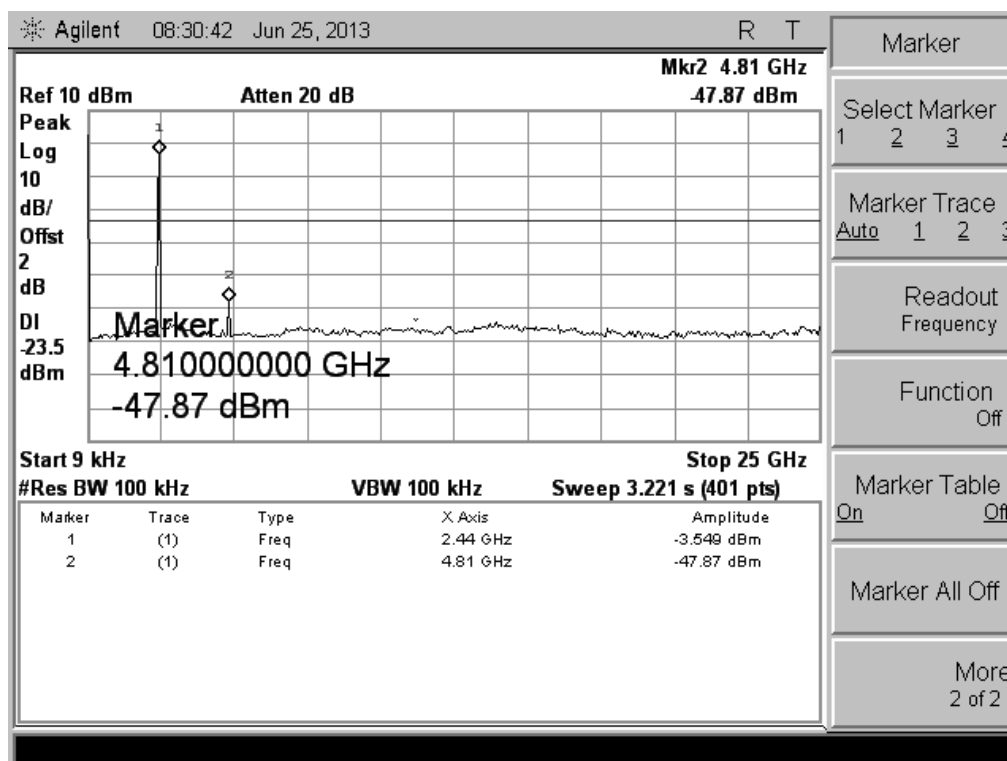
5.3.2 Test Description

See section 5.1.2 of this report.

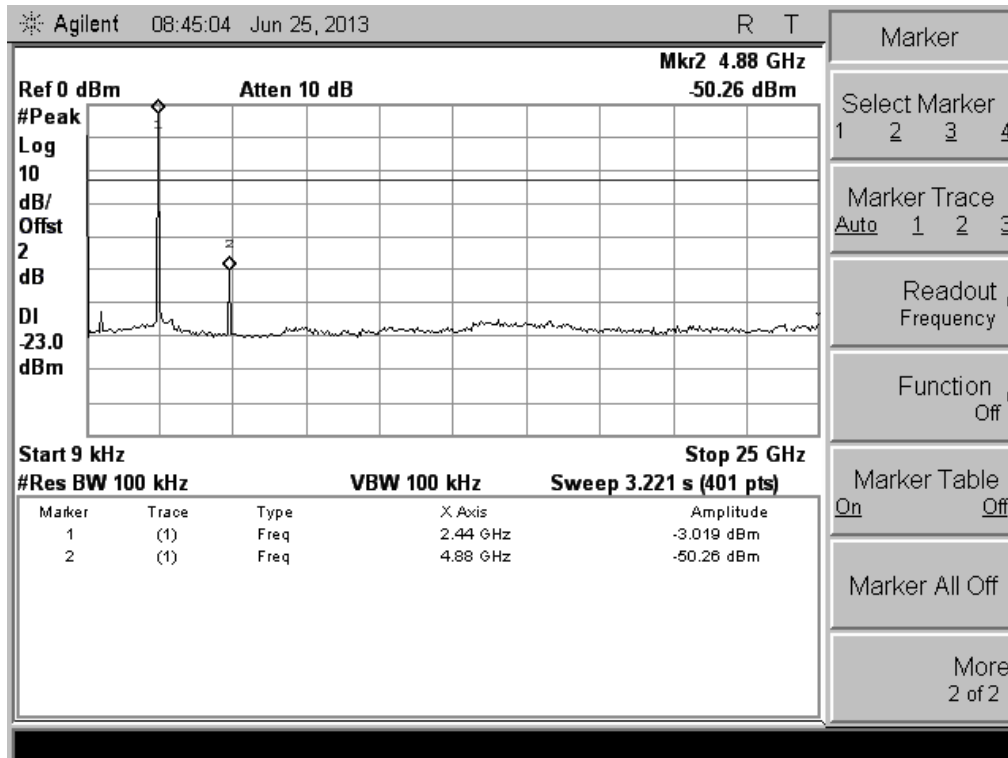
5.3.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

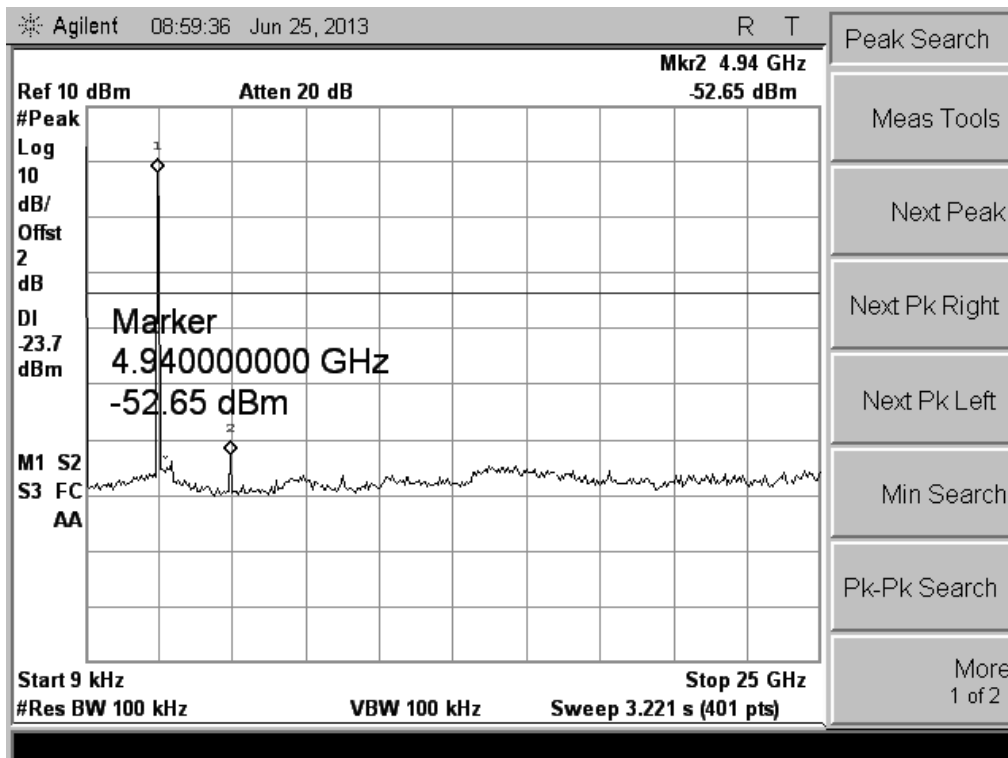
802.11b Test Mode



(CH Low, 30MHz to 25GHz)



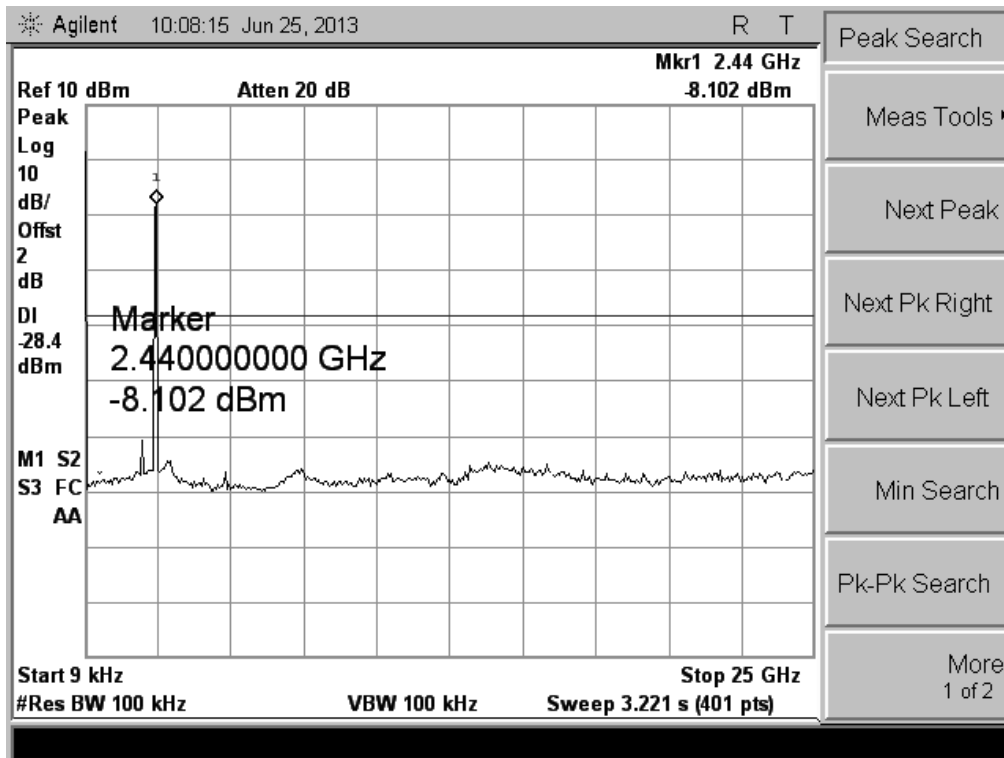
(CH Mid, 30MHz to 25GHz)



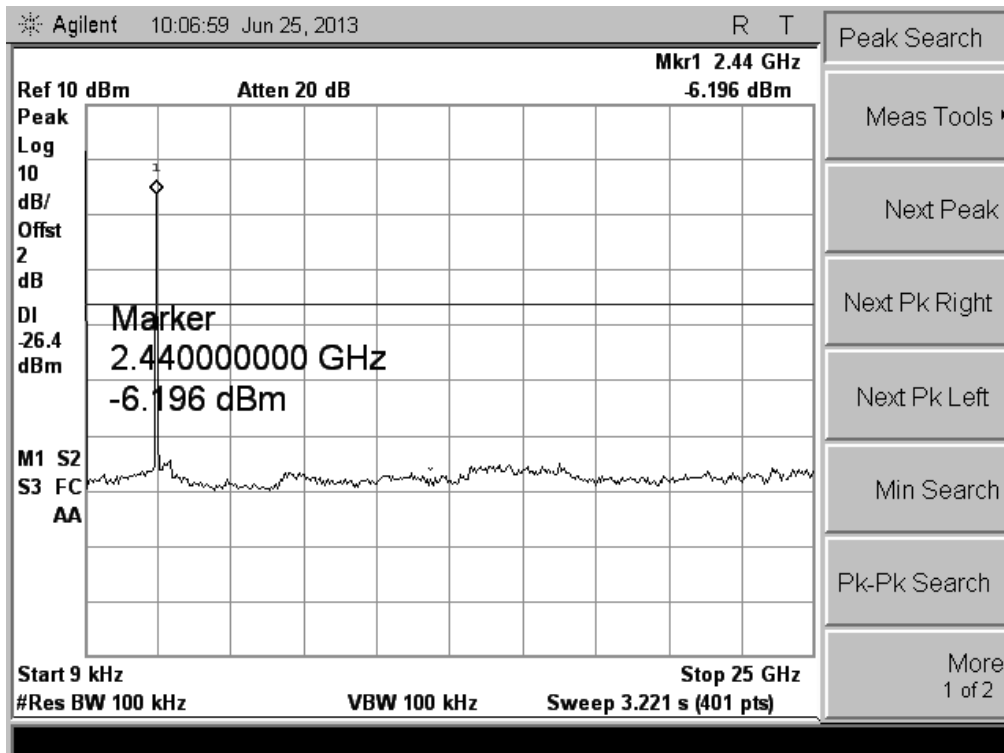
(CH High, 30MHz to 25GHz)

Note: The power of the Module transmitting frequency should be ignored.

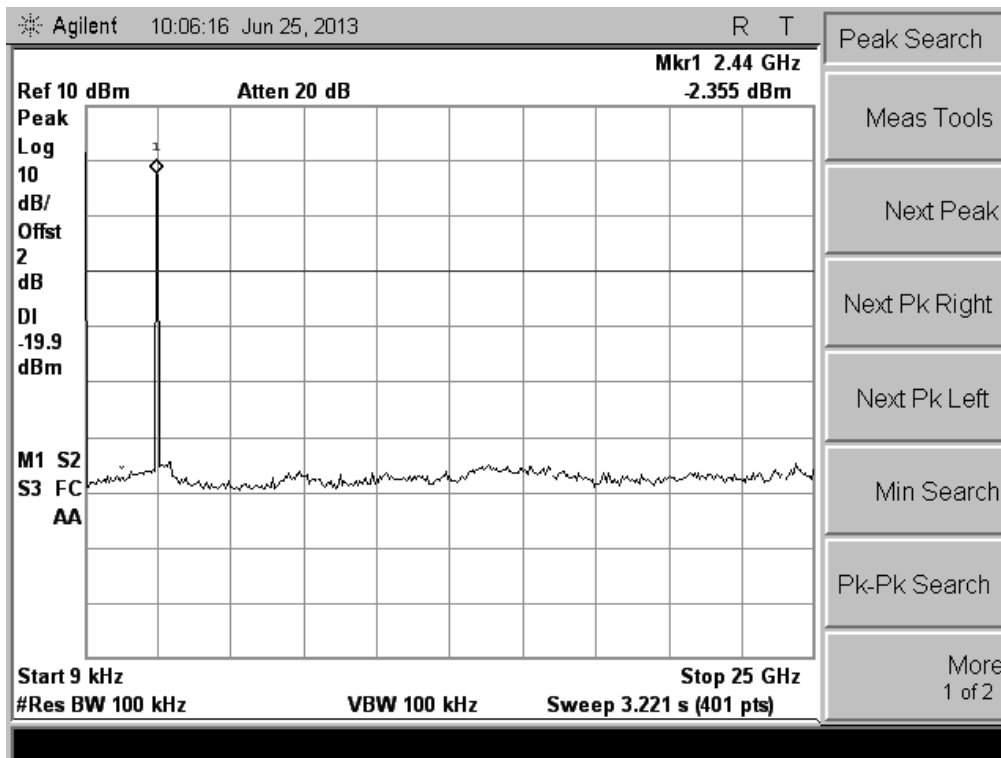
802.11g Test Mode



(CH Low, 30MHz to 25GHz)



(CH Mid, 30MHz to 25GHz)



(CH High, 30MHz to 25GHz)

Note: The power of the Module transmitting frequency should be ignored.

5.4 Band Edge

5.4.1 Definition

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.

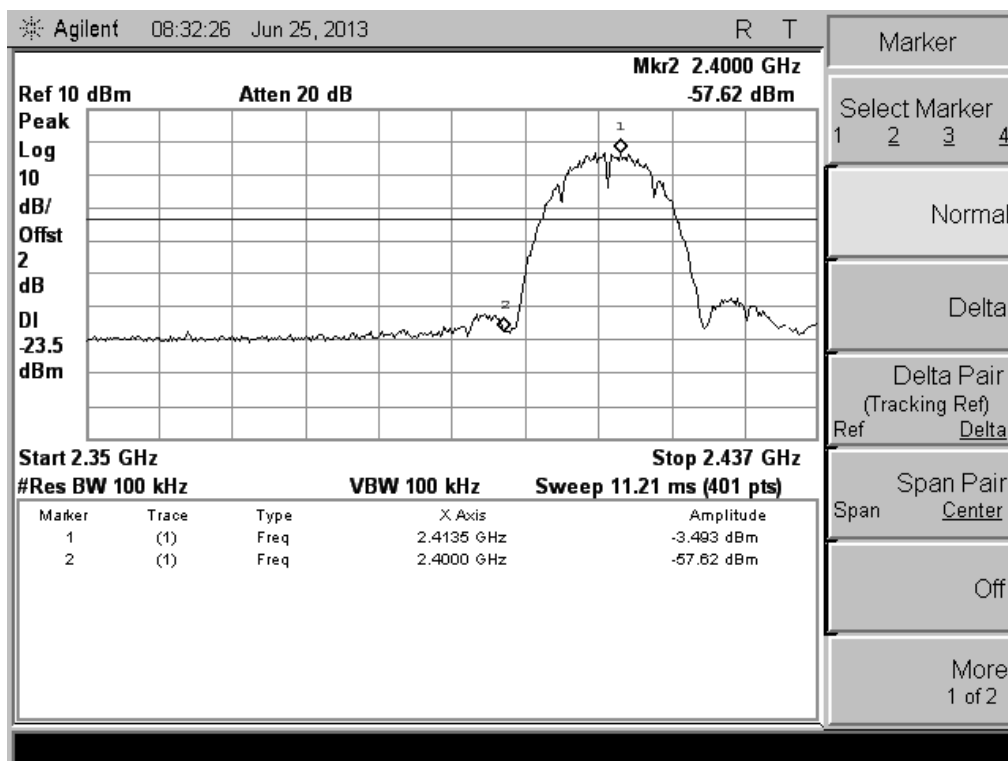
5.4.2 Test Description

See section 5.1.2 of this report.

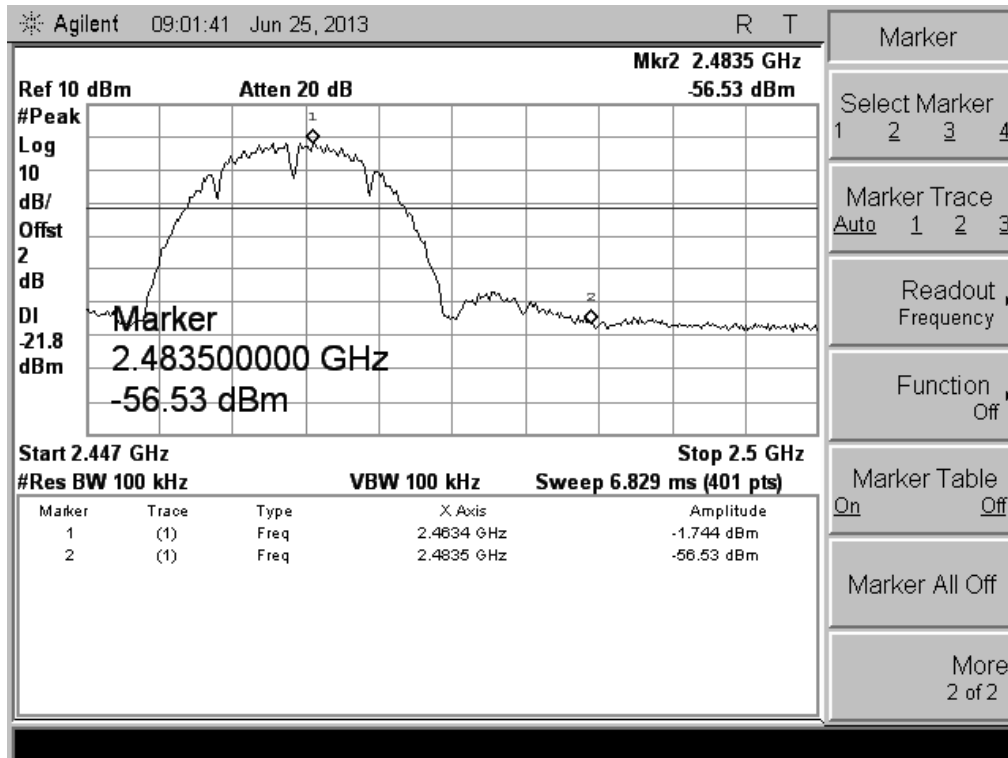
5.4.3 Test Result

The EUT operates at continuous transmit test mode. The test data of the lowest and highest channels are tested to verify the band edge emissions.

802.11b Test Mode

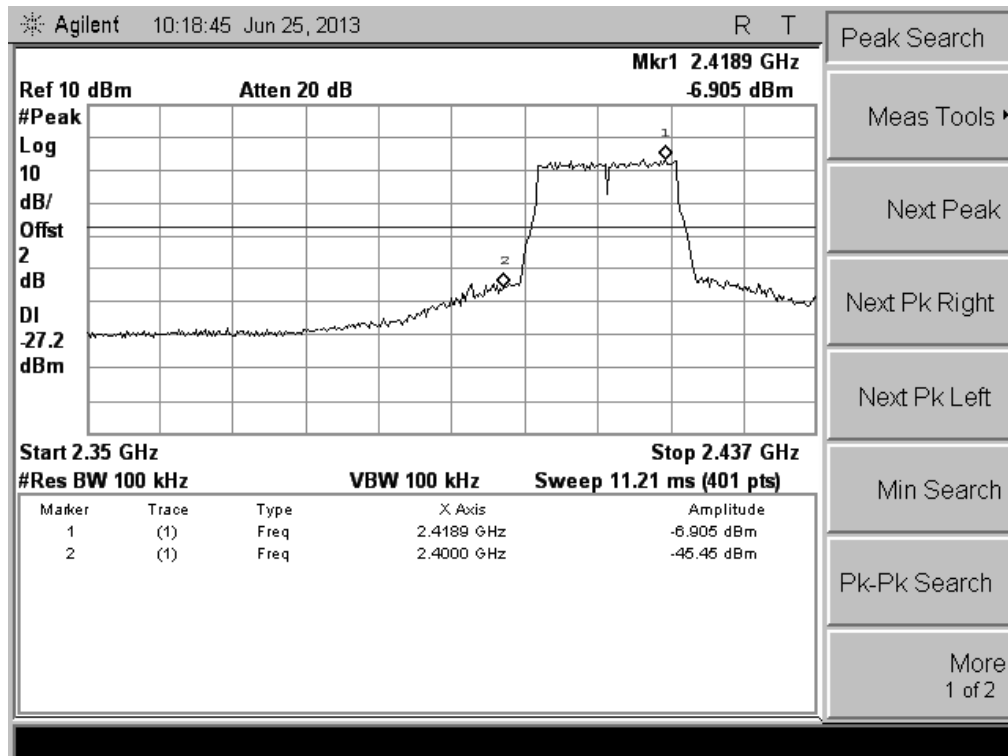


(CH Low)

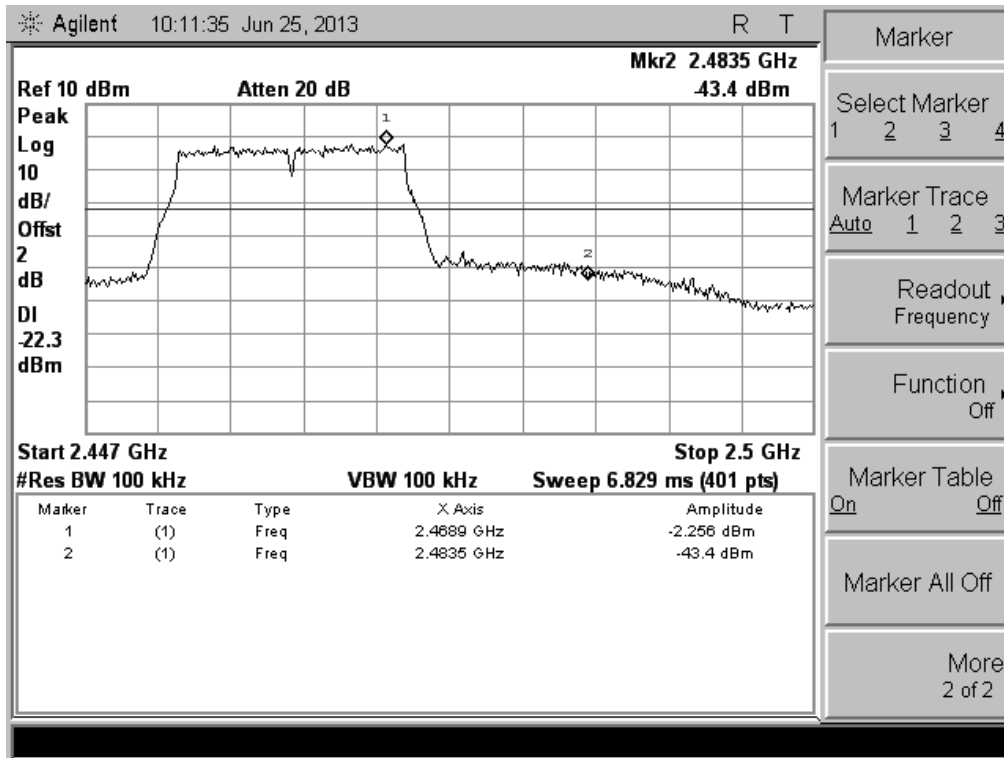


(CH High)

802.11g Test Mode



(CH Low)



(CH High, Peak)

5.5 Power Spectral Density (PSD)

5.5.1 Definition

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.5.2 Test Description

See section 5.1.2 of this report.

5.5.3 Test Result

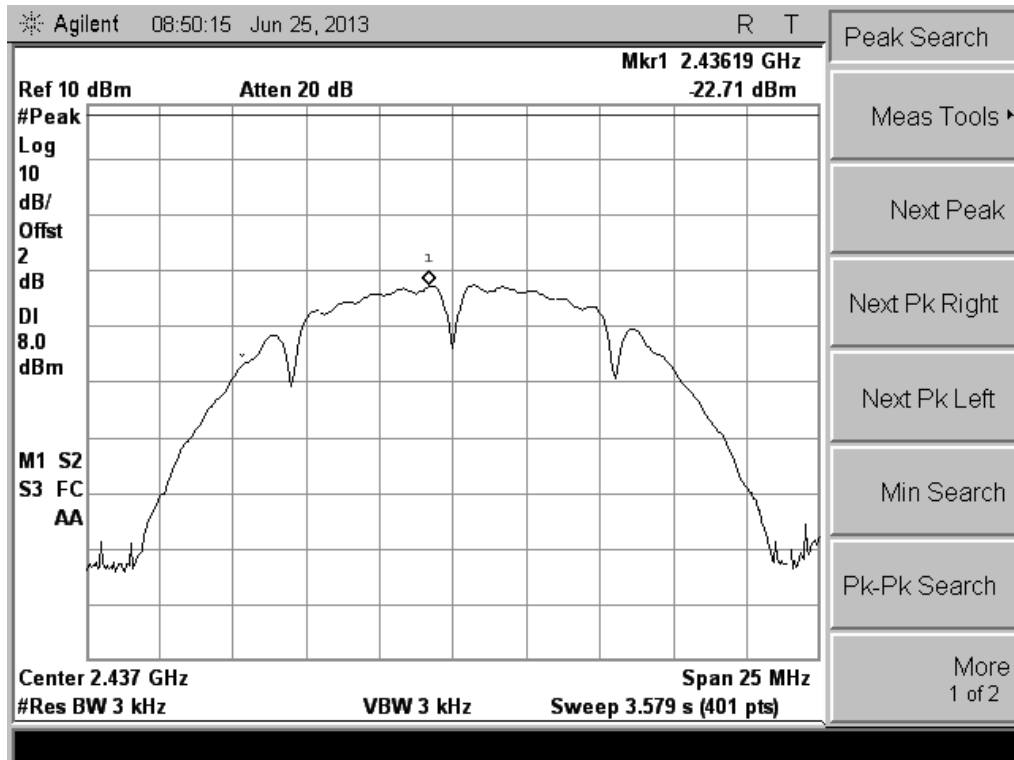
The lowest, middle and highest channels are tested to verify the power spectral density.

802.11b Test Mode

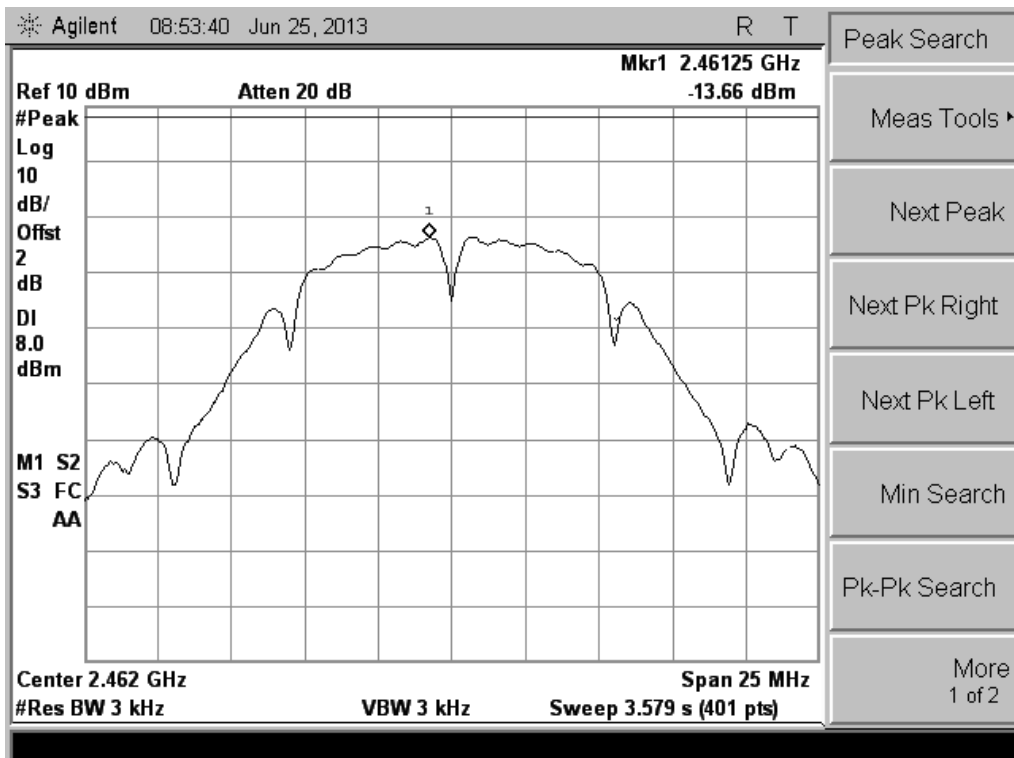
Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-8.14	≤8	PASS
6	2437	-8.425	≤8	PASS
11	2462	-8.45	≤8	PASS



(CH Low)



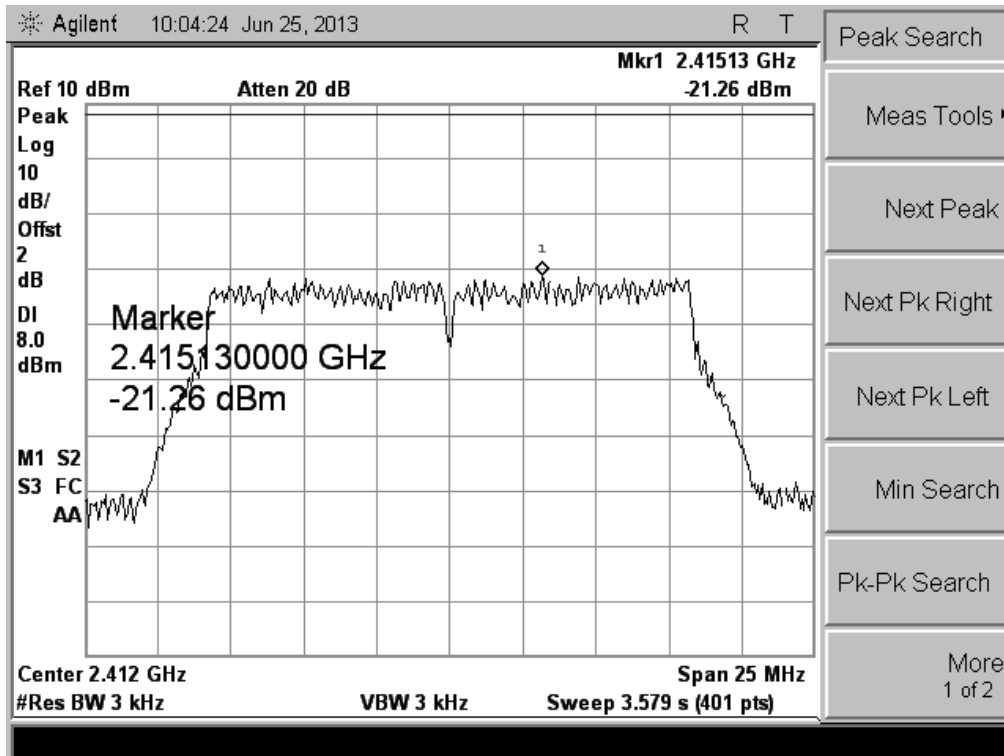
(CH Mid)



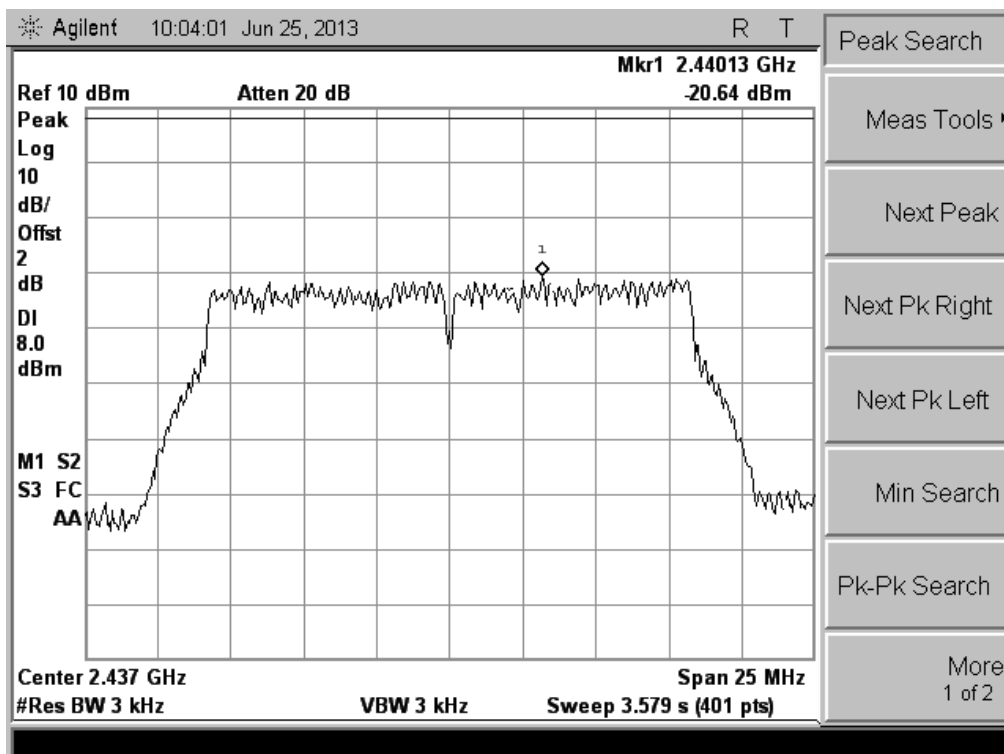
(CH High)

802.11g Test Mode

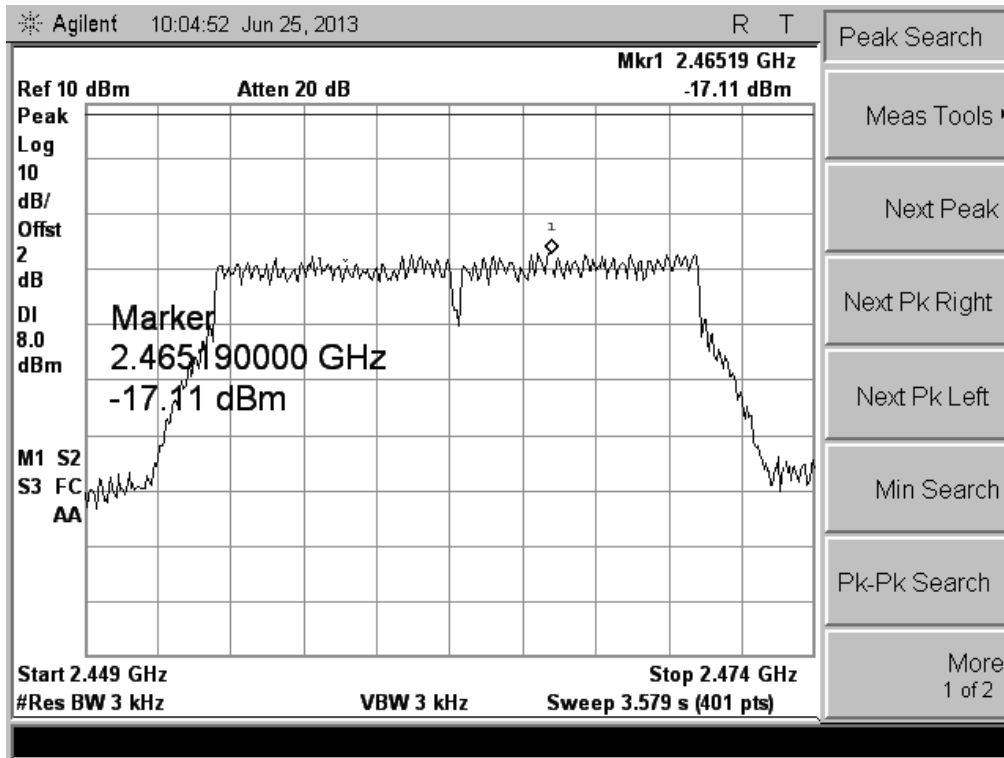
Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-7.512	≤8	PASS
6	2437	-6.724	≤8	PASS
11	2462	-6.553	≤8	PASS



(CH Low)



(CH Mid)



(CH High)

5.6 Conducted Emission

5.6.1 Definition

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

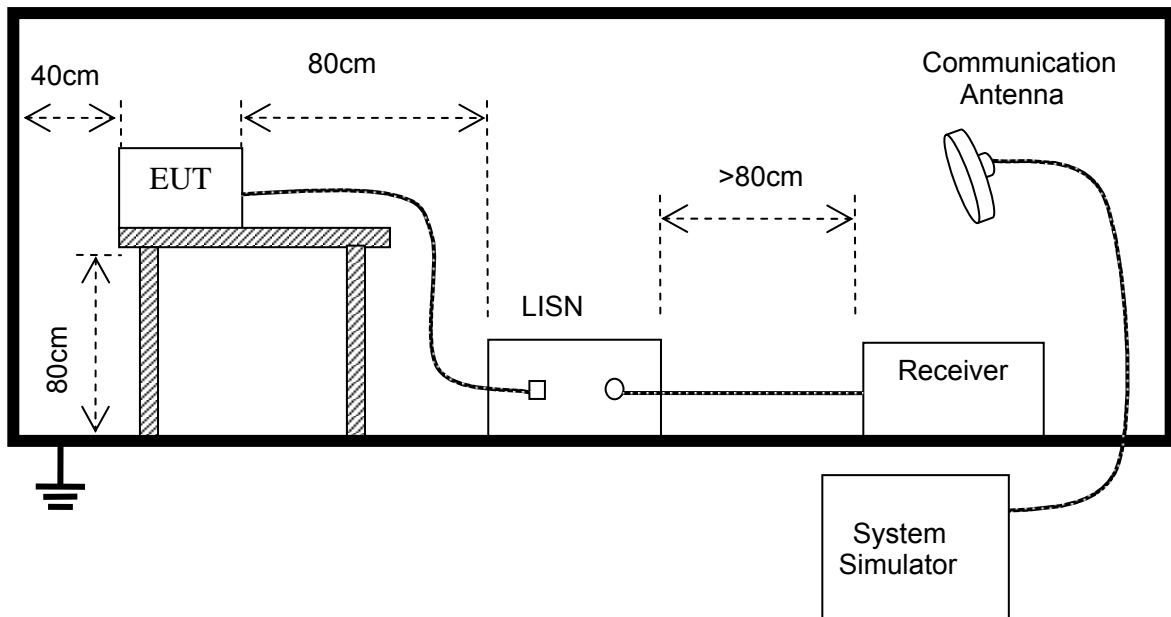
Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

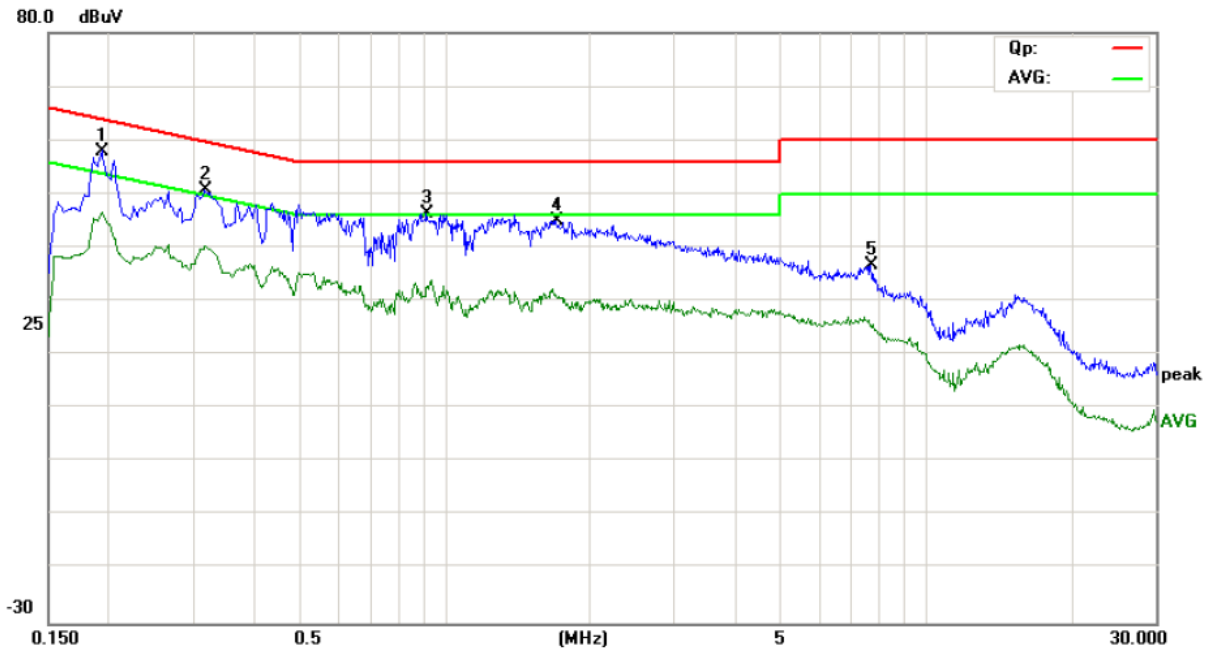
5.6.2 Test Description

The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power.



5.6.3 Test Result

Conducted Emission Measurement



Site site #1
 Limit: FCC Part 15B QP
 EUT: MID
 M/N: K-B708
 Mode: WIFI MODE
 Note:

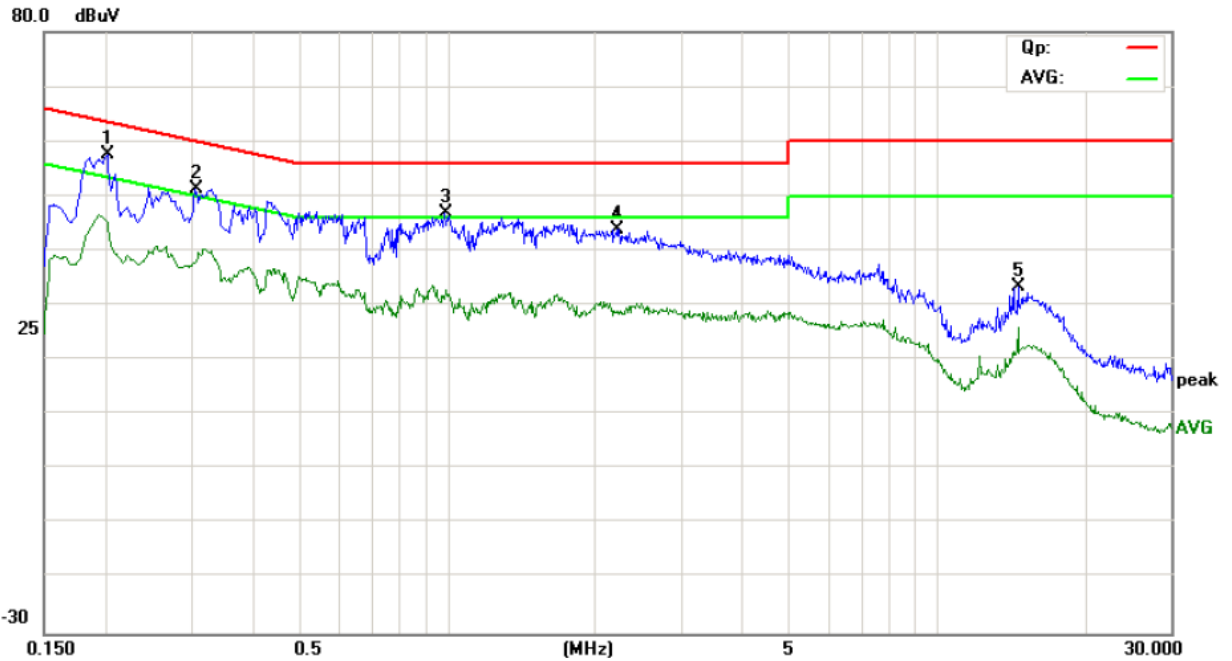
Phase: **N**
 Power: AC 120V/60Hz

Temperature: 26
 Humidity: 60 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1940	46.36	11.64	58.00	63.86	-5.86	peak	
2		0.3180	39.39	11.21	50.60	59.76	-9.16	peak	
3		0.9140	36.23	10.00	46.23	56.00	-9.77	peak	
4		1.7060	35.69	9.29	44.98	56.00	-11.02	peak	
5		7.6820	26.32	10.39	36.71	60.00	-23.29	peak	

*:Maximum data x:Over limit !:over margin

Conducted Emission Measurement



Site site #1 Phase: **N** Temperature: 26
 Limit: FCC Part 15B QP Power: AC 120V/60Hz Humidity: 60 %
 EUT: MID
 M/N: K-B708
 Mode: WIFI MODE
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2020	45.56	11.99	57.55	63.53	-5.98	peak	
2		0.3060	39.98	11.29	51.27	60.08	-8.81	peak	
3		0.9860	36.88	10.00	46.88	56.00	-9.12	peak	
4		2.2220	34.63	9.22	43.85	56.00	-12.15	peak	
5		14.6300	24.43	9.00	33.43	60.00	-26.57	peak	

*:Maximum data x:Over limit !:over margin

5.7 Radiated Emission

5.7.1 Definition

According to FCC section 15.247(d), radiated emission outside the frequency band 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)).

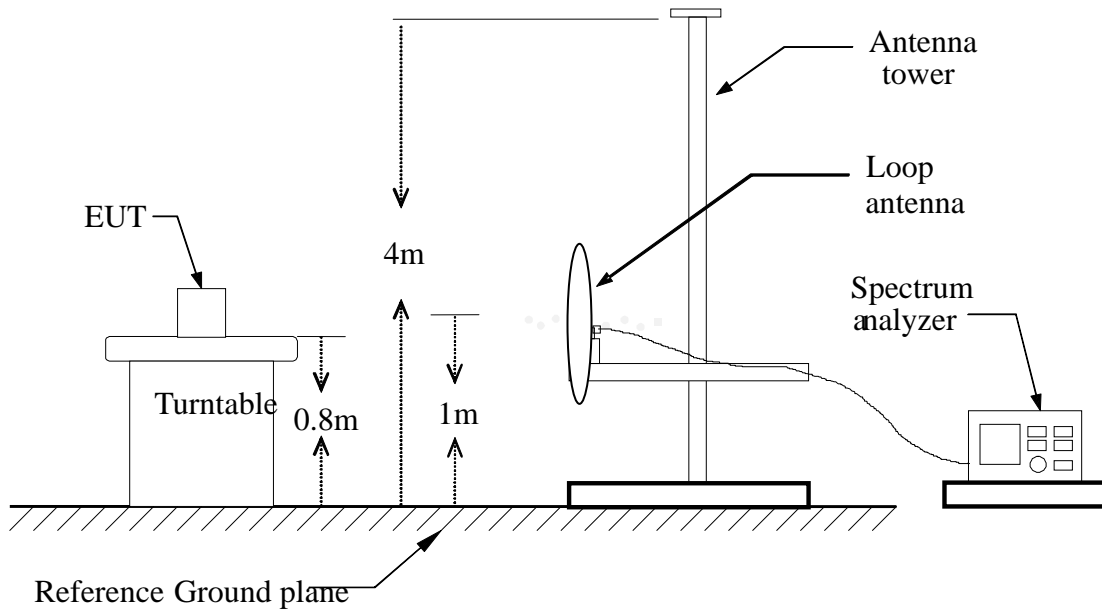
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

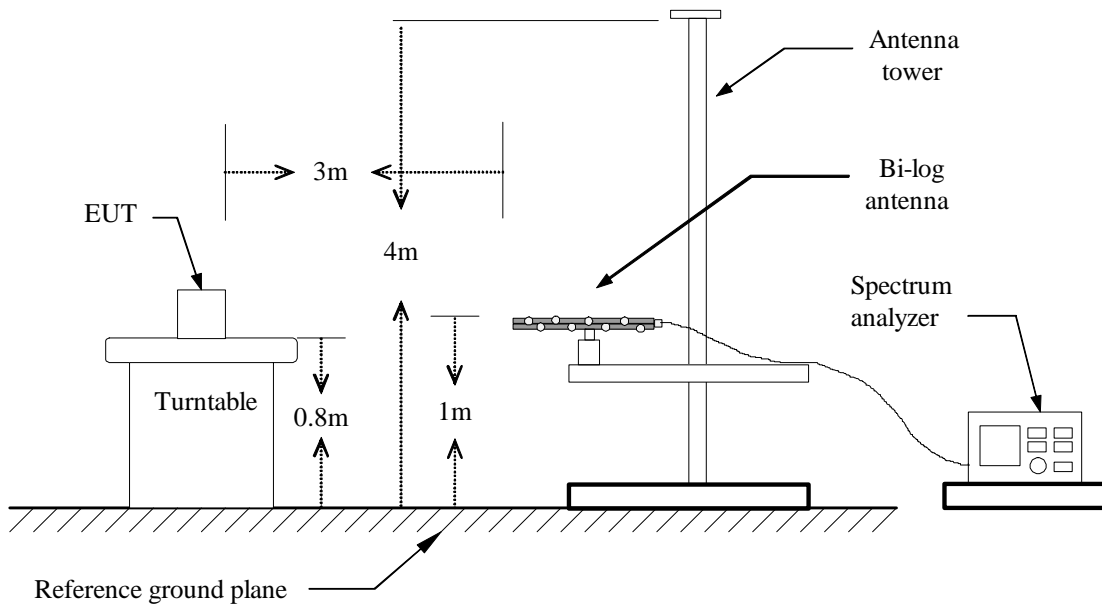
As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

5.7.2 Test Description

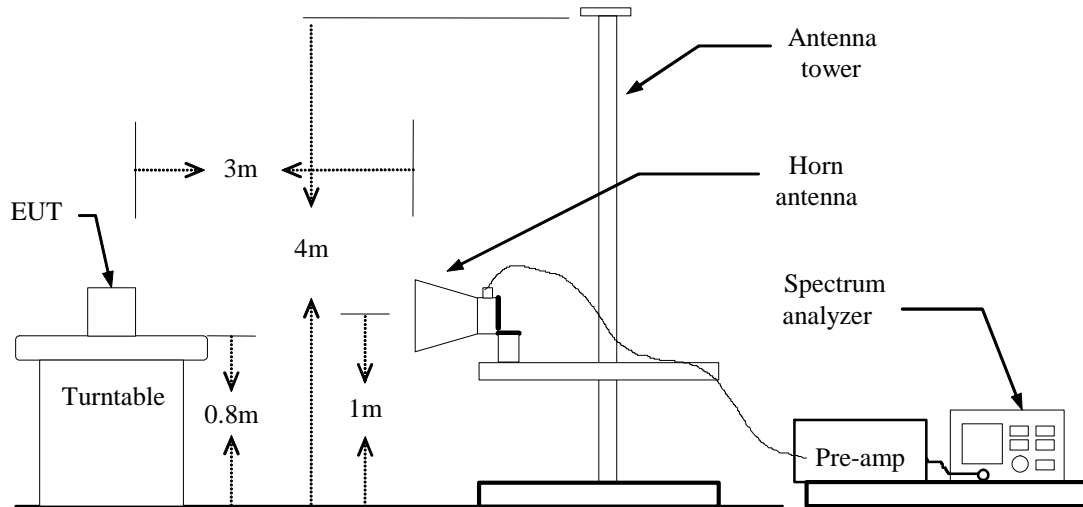
A. Test Setup:



Blow 1GHz:



Above 1GHz:



B. Test procedures

1. The EUT is placed on a turntable, which is 0.8m above 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 emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
 Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO
 Above 1GHz : (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 (b) AVERAGE: RBW=1MHz / VBW=1MHz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

5.7.3 Test Result

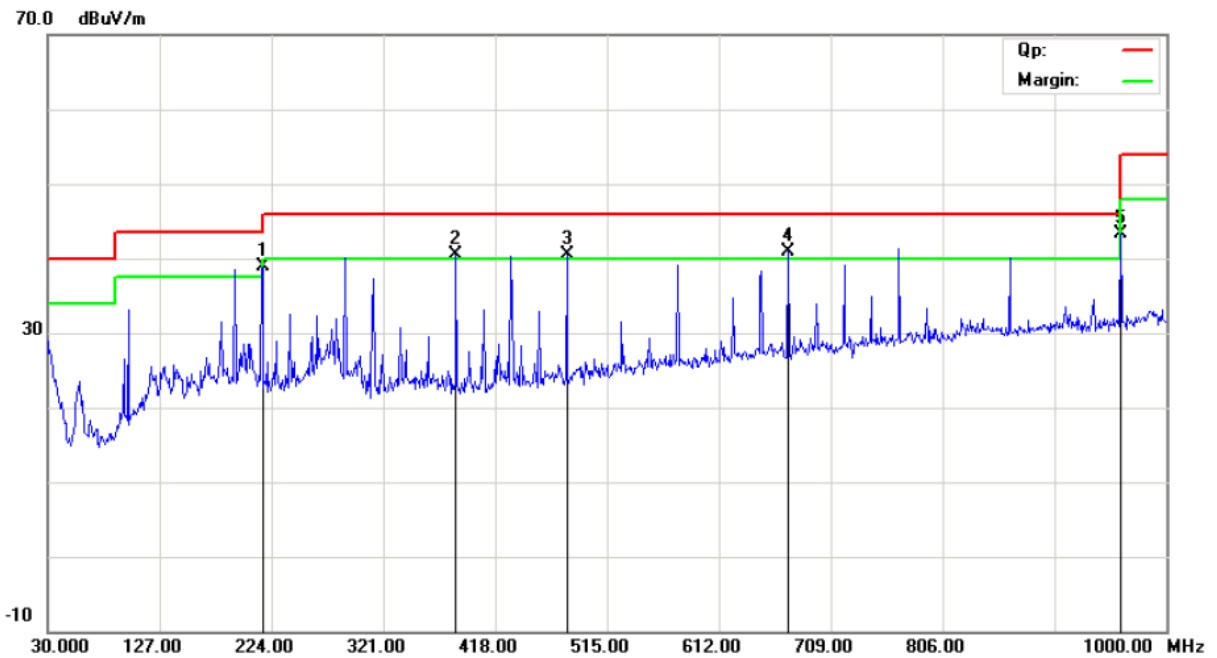
Form 9 KHz to 30MHz:

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs Peak (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)
	H					
	H					
	H					
N/A						>20
	V					
	V					
	V					
N/A						>20

-Note: No test data was detected in below 30MHz.

Below 1 GHz

Radiated Emission Measurement

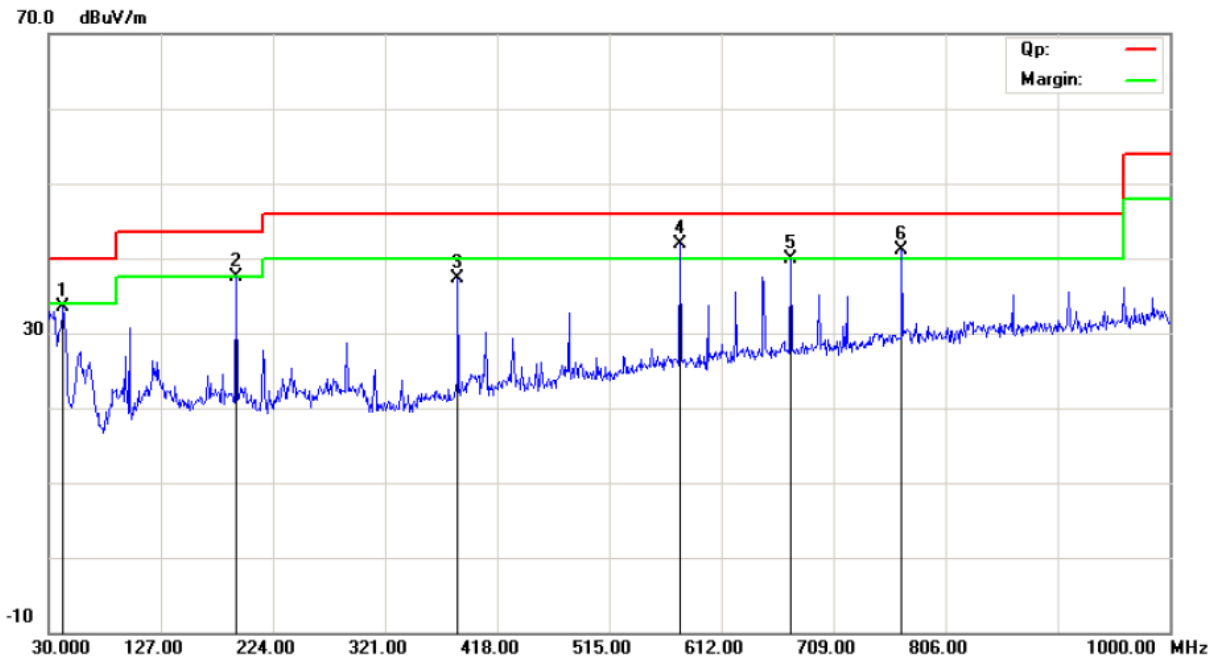


Site site #1 Polarization: *Horizontal* Temperature: 26
 Limit: FCC Part15 B 3M Radiation Power: AC 120V/60Hz Humidity: 61 %
 EUT: MID Distance:
 M/N: K-B708
 Mode: WIFI
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		216.2400	22.85	16.14	38.99	46.00	-7.01	peak		0	
2	!	384.0500	22.28	18.18	40.46	46.00	-5.54	peak		0	
3	!	480.0800	18.87	21.70	40.57	46.00	-5.43	peak		0	
4	*	672.1400	16.47	24.52	40.99	46.00	-5.01	peak		0	
5		960.2300	15.33	28.00	43.33	54.00	-10.67	peak		0	

*:Maximum data x:Over limit !:over margin

Radiated Emission Measurement



Site site #1 Polarization: *Vertical* Temperature: 26
 Limit: FCC Part15 B 3M Radiation Power: AC 120V/60Hz Humidity: 61 %
 EUT: MID Distance:
 M/N: K-B708
 Mode: WIFI
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		42.6100	18.38	15.13	33.51	40.00	-6.49	peak	0	
2		191.9900	20.72	16.70	37.42	43.50	-6.08	peak	0	
3		384.0500	19.20	18.18	37.38	46.00	-8.62	peak	0	
4	*	576.1100	19.00	22.82	41.82	46.00	-4.18	peak	0	
5		672.1400	15.41	24.52	39.93	46.00	-6.07	peak	0	
6	!	768.1700	15.33	25.86	41.19	46.00	-4.81	peak	0	

*:Maximum data x:Over limit !:over margin

Above 1 GHz

Operation Mode: TX/ IEEE 802.11b/CH Low **Test Date:** 2013-6-22
Temperature: 20°C **Humidity:** 65 % RH

Freq. (MHz)	Ant. Pol H/V	Peak Reading dBuV	AV Reading dBuV	Ant. / CL CF dB)	Actual Fs		Peak Limit dBuV/m	AV Limit dBuV/m	AV Margin dB
					Peak dBuV/m	AV dBuV/m			
4824.5	V	40.70	21.38	23.58	64.28	44.96	74.00	54.00	-9.04
N/A	H								
4824.5	H	42.29	22.43	23.58	65.87	46.01	74.00	54.00	-7.99
N/A	H								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. 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.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH Mid **Test Date:** 2013-6-22
Temperature: 20°C **Humidity:** 65 % RH

Freq. (MHz)	Ant. Pol H/V	Peak Reading dBuV	AV Reading dBuV	Ant. / CL CF dB	Actual Fs		Peak Limit dBuV/m	AV Limit dBuV/m	AV Margin dB
					Peak	AV			
					dBuV/m	dBuV/m			
4874.5	V	41.23	21.04	23.98	65.21	45.02	74.00	54.00	-8.98
N/A	V								
4874.5	H	42.44	22.91	23.98	66.42	46.89	74.00	54.00	-7.11
N/A	H								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. 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.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH High **Test Date:** 2013-6-22
Temperature: 20°C **Humidity:** 65 % RH

Freq. (MHz)	Ant. Pol H/V	Peak Reading dBuV	AV Reading dBuV	Ant. / CL CF dB	Actual Fs		Peak Limit dBuV/m	AV Limit dBuV/m	AV Margin dB
					Peak	AV			
					dBuV/m	dBuV/m			
4924.5	V	44.01	23.24	24.14	68.15	47.38	74.00	54.00	-6.62
N/A	V								
4924.5	H	42.69	22.48	24.14	66.83	46.62	74.00	54.00	-7.38
N/A	H								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. 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.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Low **Test Date:** 2013-6-22
Temperature: 20°C **Humidity:** 65 % RH

Freq. (MHz)	Ant. Pol H/V	Peak Reading dBuV	AV Reading dBuV	Ant. / CL CF dB)	Actual Fs		Peak Limit dBuV/m	AV Limit dBuV/m	AV Margin dB
					Peak dBuV/m	AV dBuV/m			
4824.5	V	41.55	23.00	23.58	65.13	46.58	74.00	54.00	-7.42
N/A	V								
4824.5	H	42.78	22.19	23.58	66.36	45.77	74.00	54.00	-8.23
N/A	H								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. 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.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Mid **Test Date:** 2013-6-22
Temperature: 20°C **Humidity:** 65 % RH

Freq. (MHz)	Ant. Pol H/V	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
		Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		dBuV	dBuV	dB)			dBuV/m	dBuV/m	dB
4874.5	V	42.44	22.24	23.98	66.42	46.22	74.00	54.00	-7.78
N/A	V								
4874.5	H	44.03	21.65	23.98	68.01	45.63	74.00	54.00	-8.37
N/A	H								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. 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.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH High **Test Date:** 2013-6-22
Temperature: 20°C **Humidity:** 65 % RH

Freq. (MHz)	Ant. Pol H/V	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
		Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		dBuV	dBuV	dB)			dBuV/m	dBuV/m	dB
4924.5	V	43.13	21.91	24.14	67.27	46.05	74.00	54.00	-7.95
N/A	V								
4924.5	H	41.59	21.19	24.14	65.73	45.33	74.00	54.00	-8.67
N/A	H								

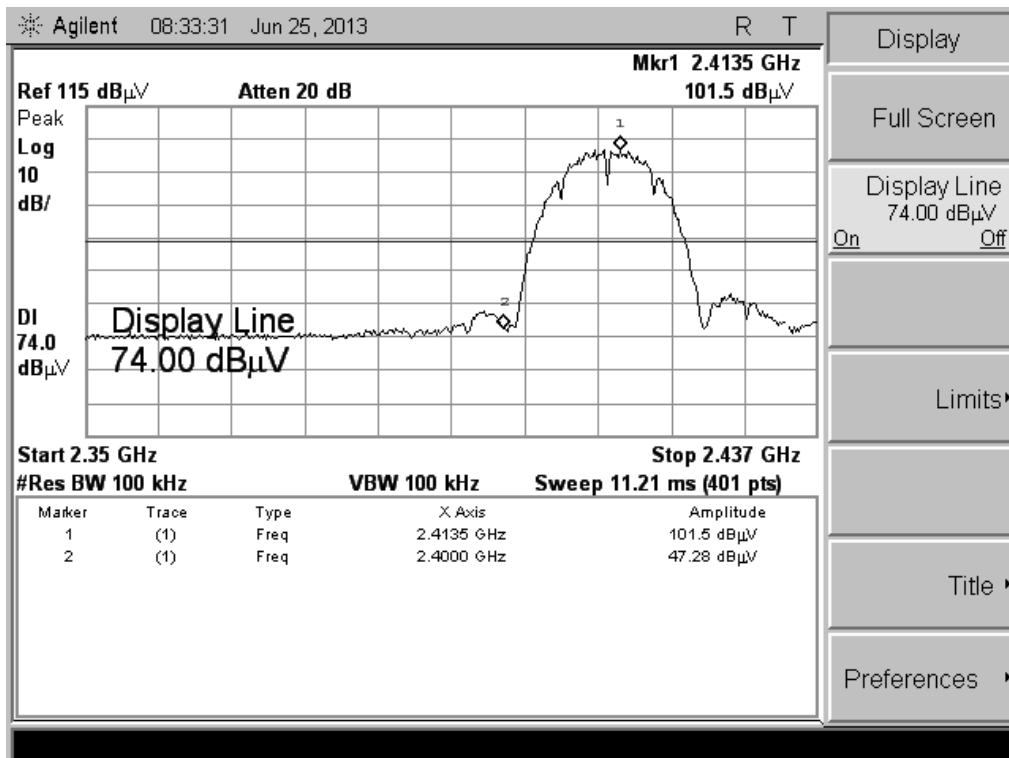
Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. 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.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

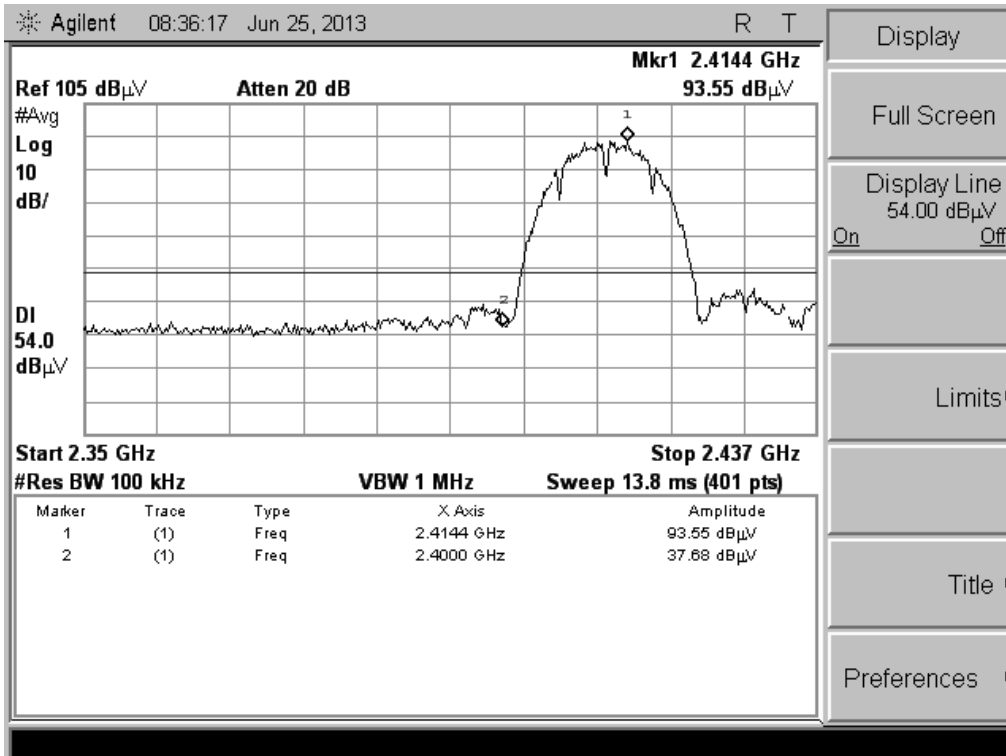
Test Range of "2.31GHz to 2.5GHz"

802.11b Test Mode

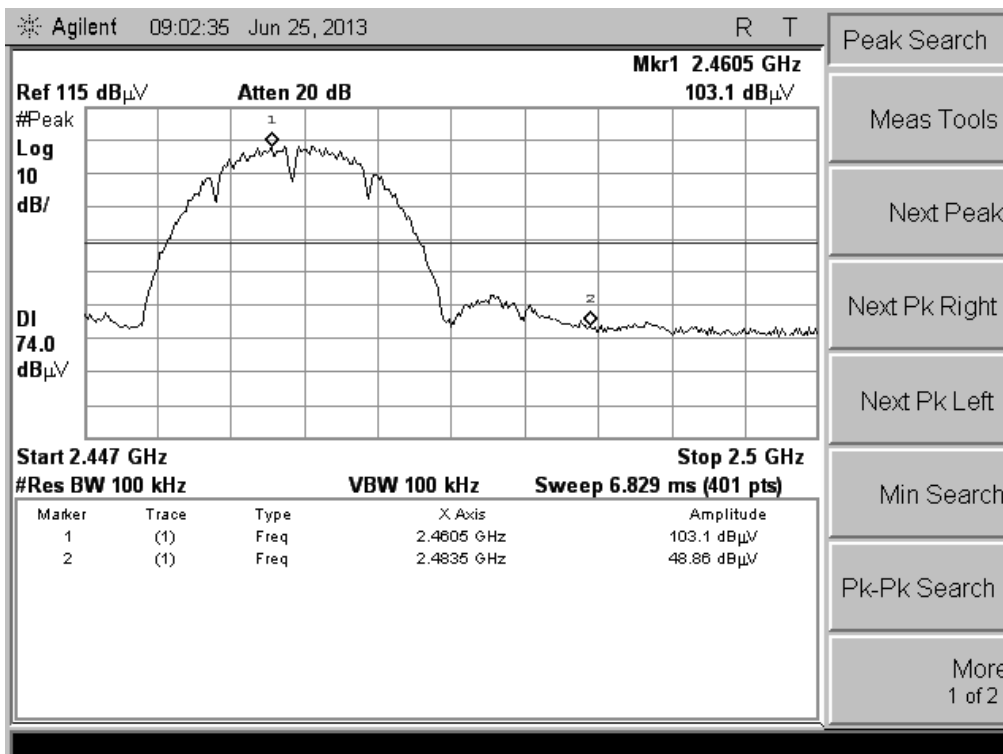
Fre. (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarization	Detector
2400.00	47.28	74.00	26.72	100.00	180.00	Vertical	Peak
	37.68	54.00	16.32	100.00	180.00	Vertical	Average
2483.50	48.86	74.00	25.14	100.00	180.00	Vertical	Peak
	34.87	54.00	19.13	100.00	180.00	Vertical	Average



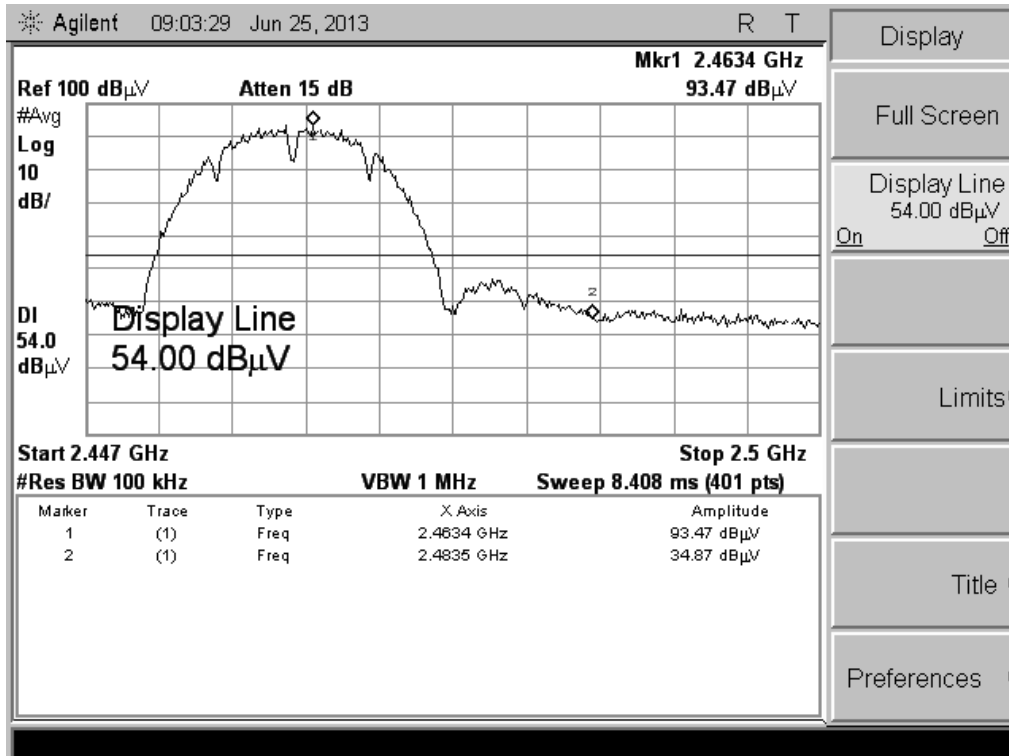
(CH Low, Peak)



(CH Low, Average)



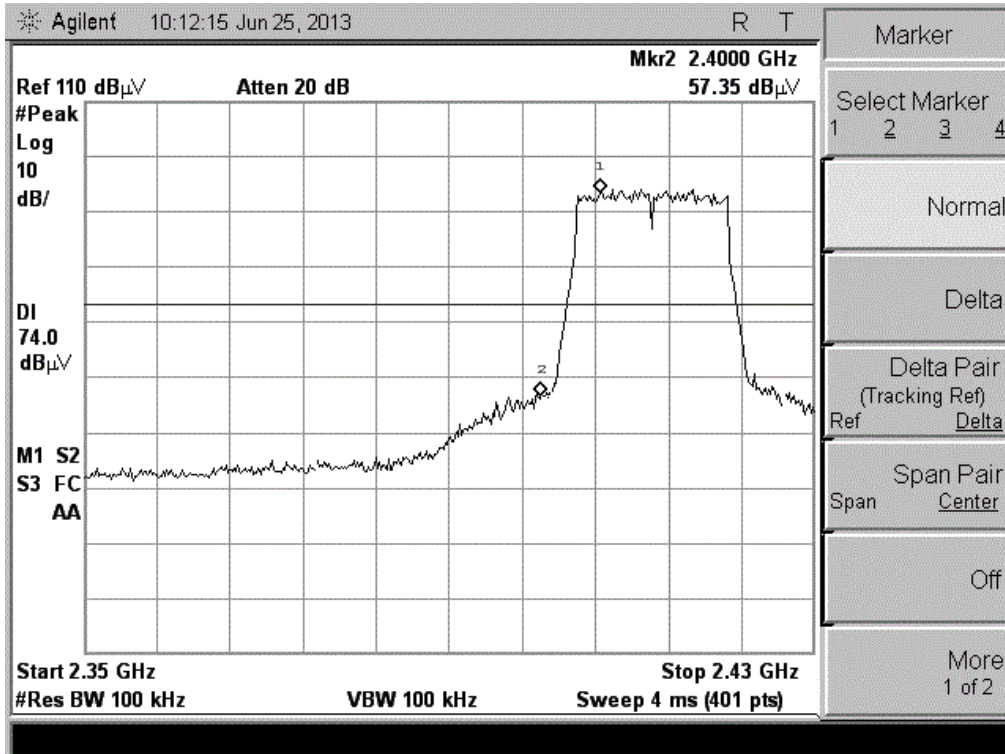
(CH High, Peak)



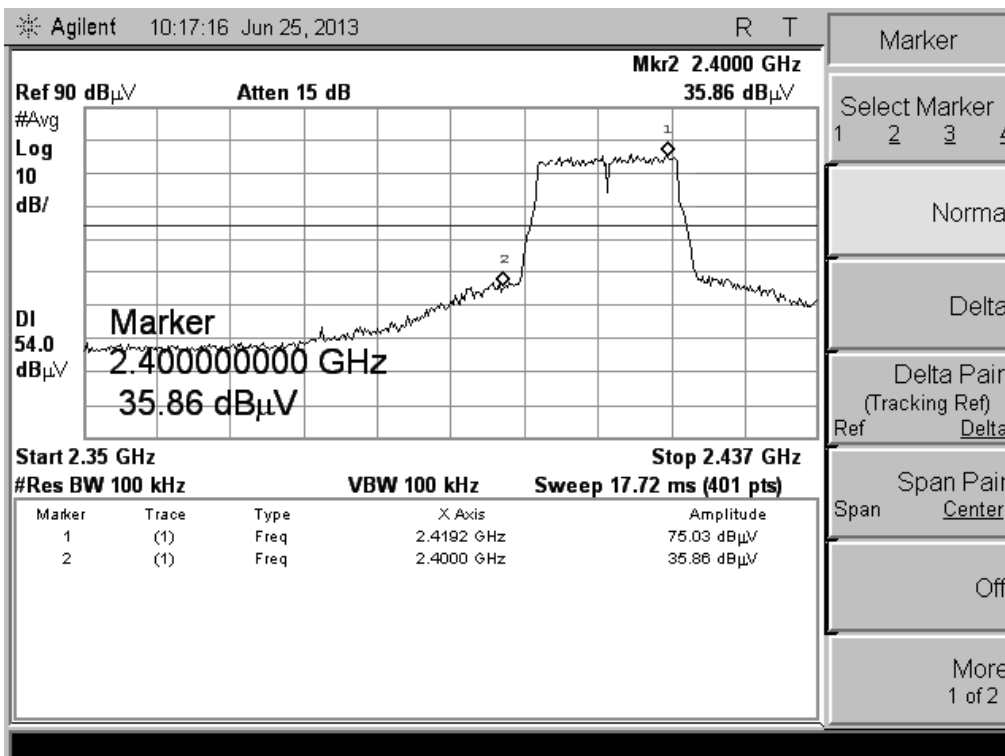
(CH High, Average)

802.11g Test Mode

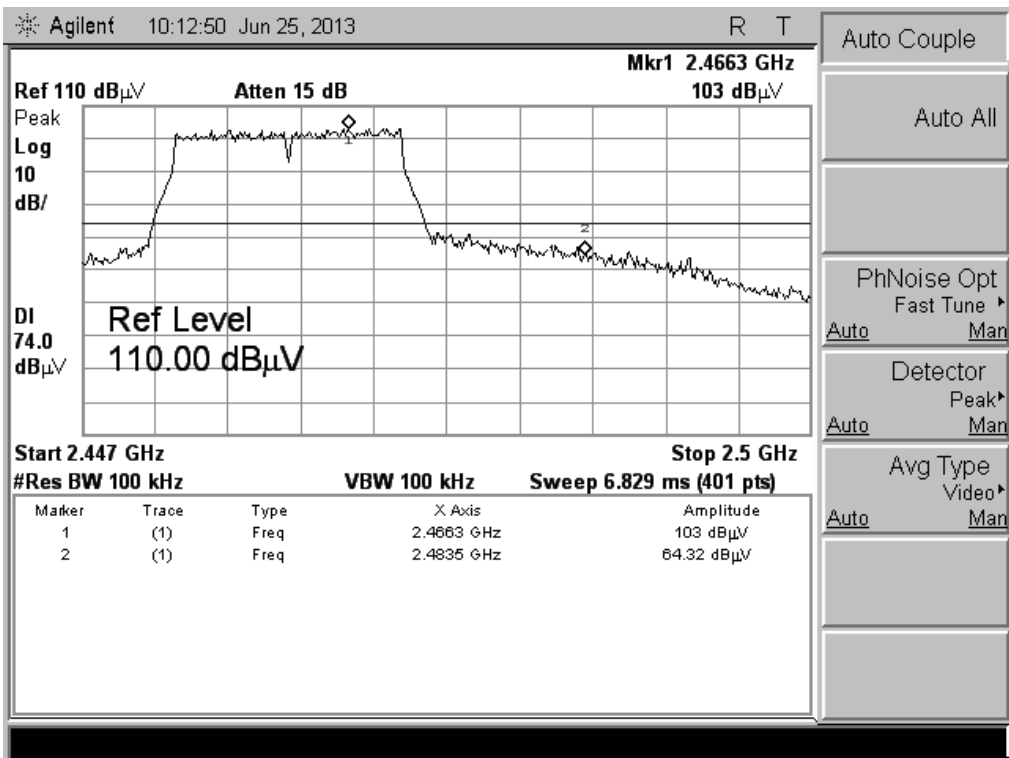
Fre. (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarization	Detector
2400.00	44.18	74.00	29.82	100.00	180.00	Vertical	Peak
	35.86	54.00	13.47	100.00	180.00	Vertical	Average
2483.50	64.32	74.00	33.92	100.00	180.00	Vertical	Peak
	41.05	54.00	16.35	100.00	180.00	Vertical	Average



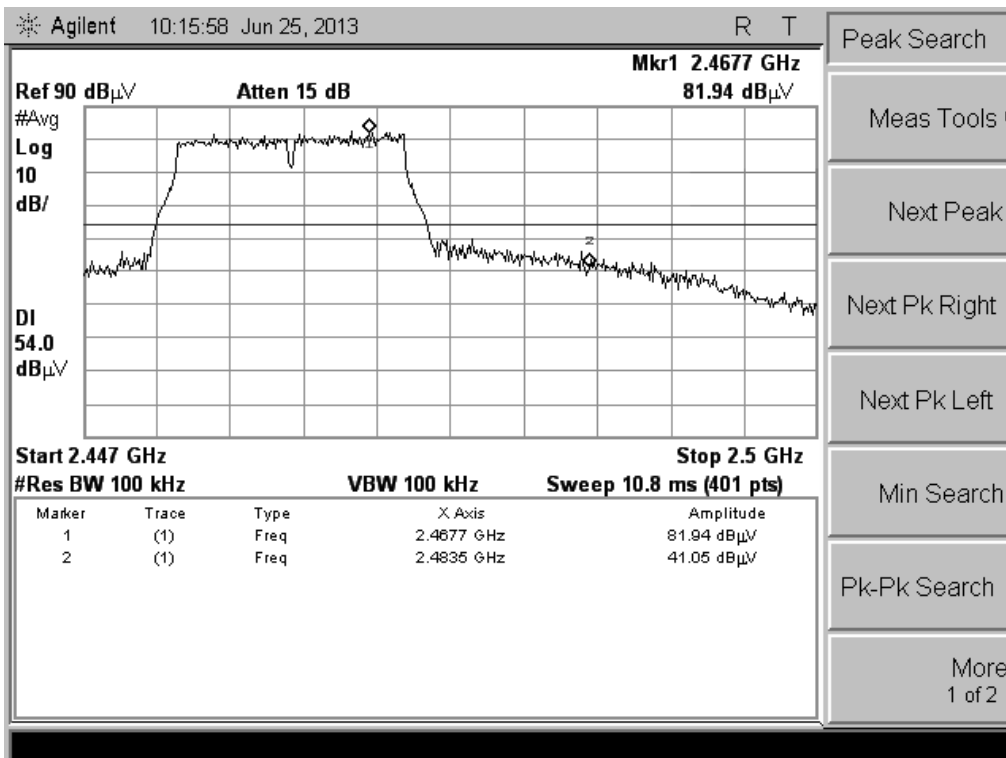
(CH Low, Peak)



(CH Low, Average)



(CH High, Peak)



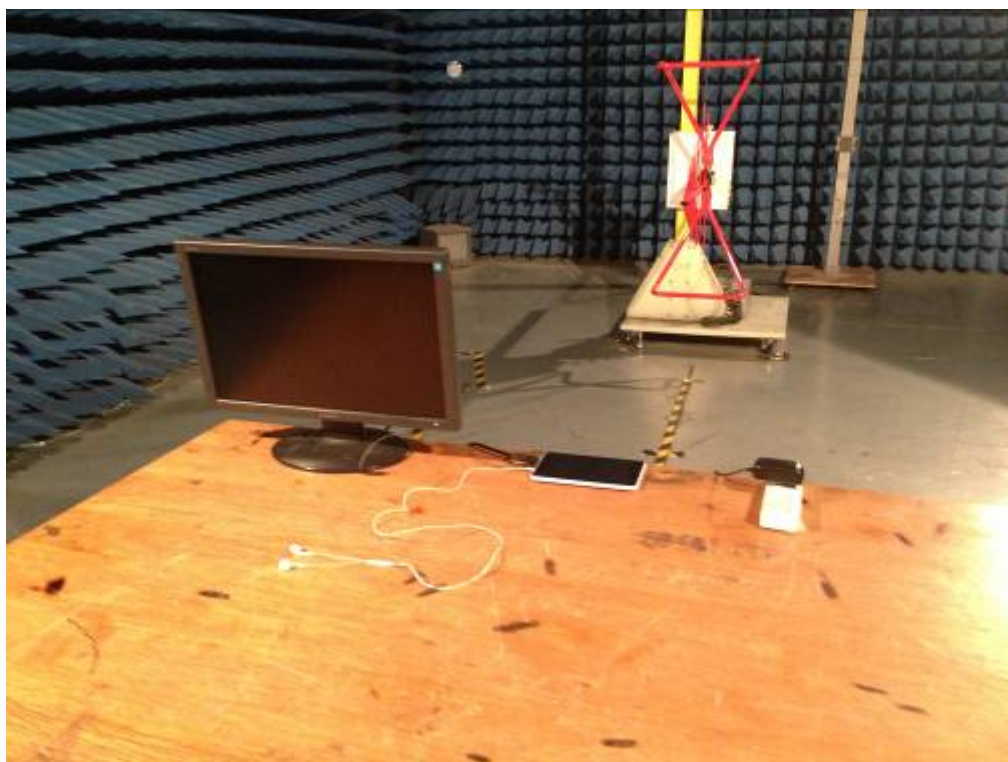
(CH High, Average)

APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP



RE TEST SETUP



CONDUCTED TEST SETUP



APPENDIX 2
PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



UP VIEW OF SAMPLE



DOWN VIEW OF SAMPLE



PHOTO OF CHARGER



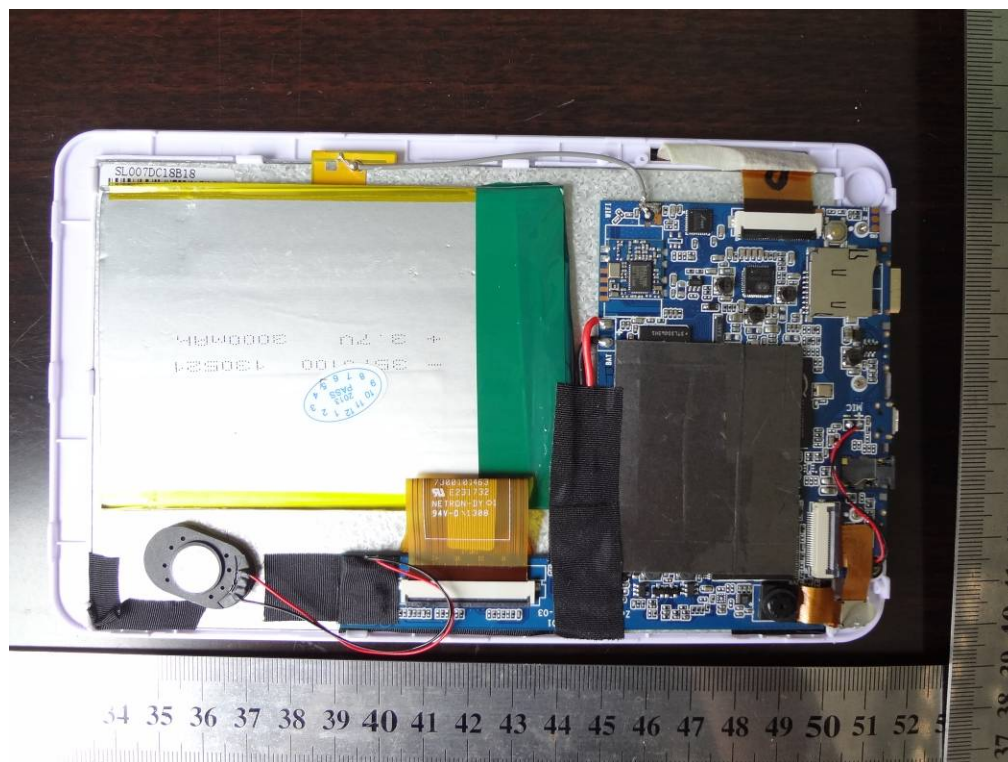
PHOTO OF USB CABLE



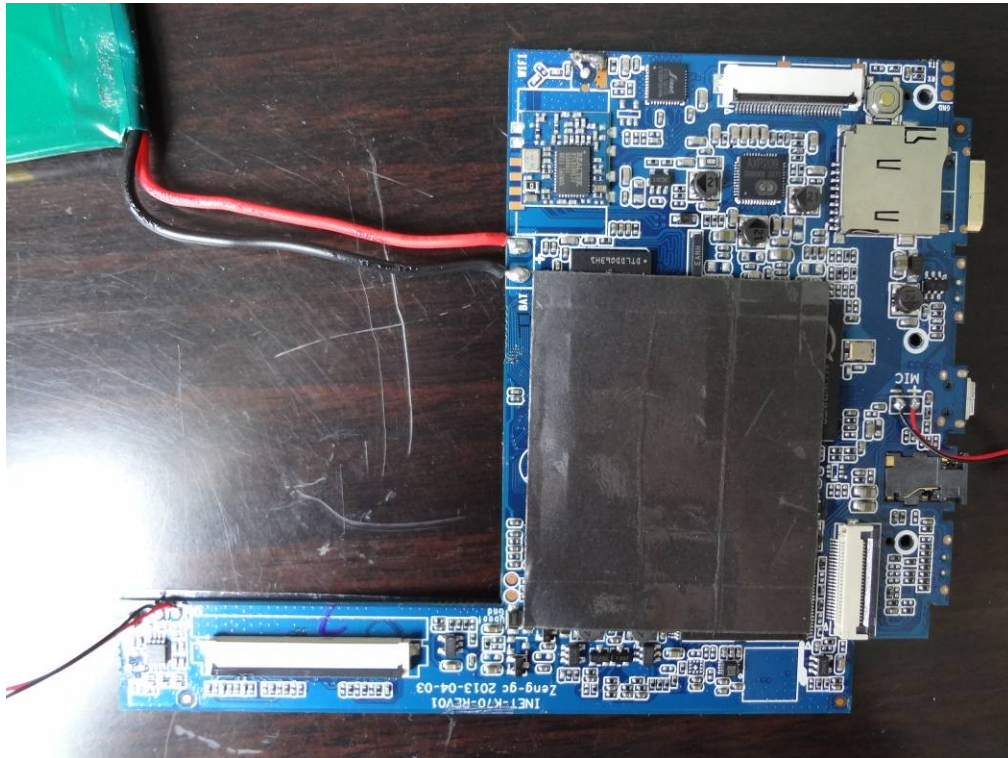
INTERNAL PHOTO OF SAMPLE - 1



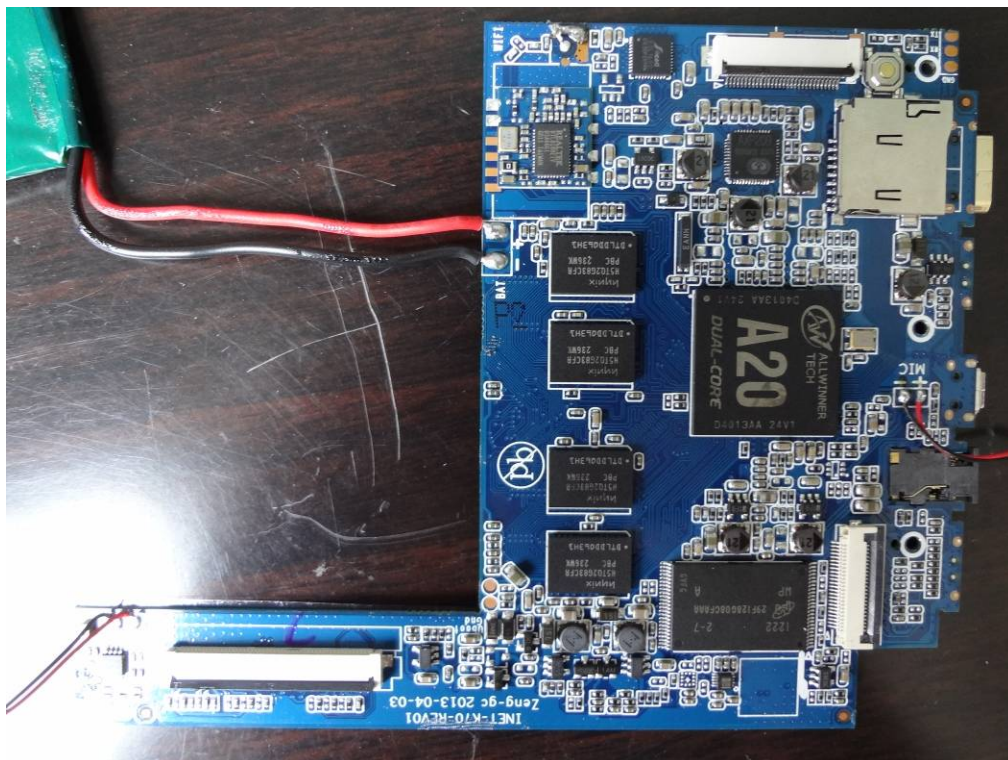
INTERNAL PHOTO OF SAMPLE -2



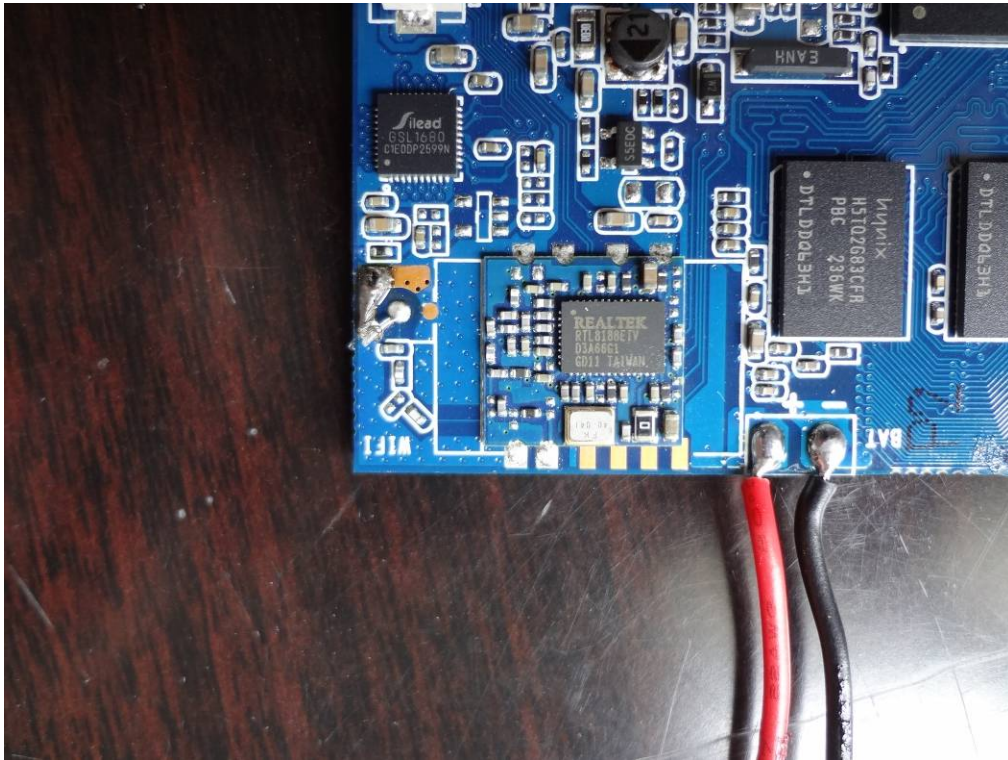
INTERNAL PHOTO OF SAMPLE - 3



INTERNAL PHOTO OF SAMPLE - 4



INTERNAL PHOTO OF SAMPLE - 5



INTERNAL PHOTO OF SAMPLE - 6



INTERNAL PHOTO OF SAMPLE - 7

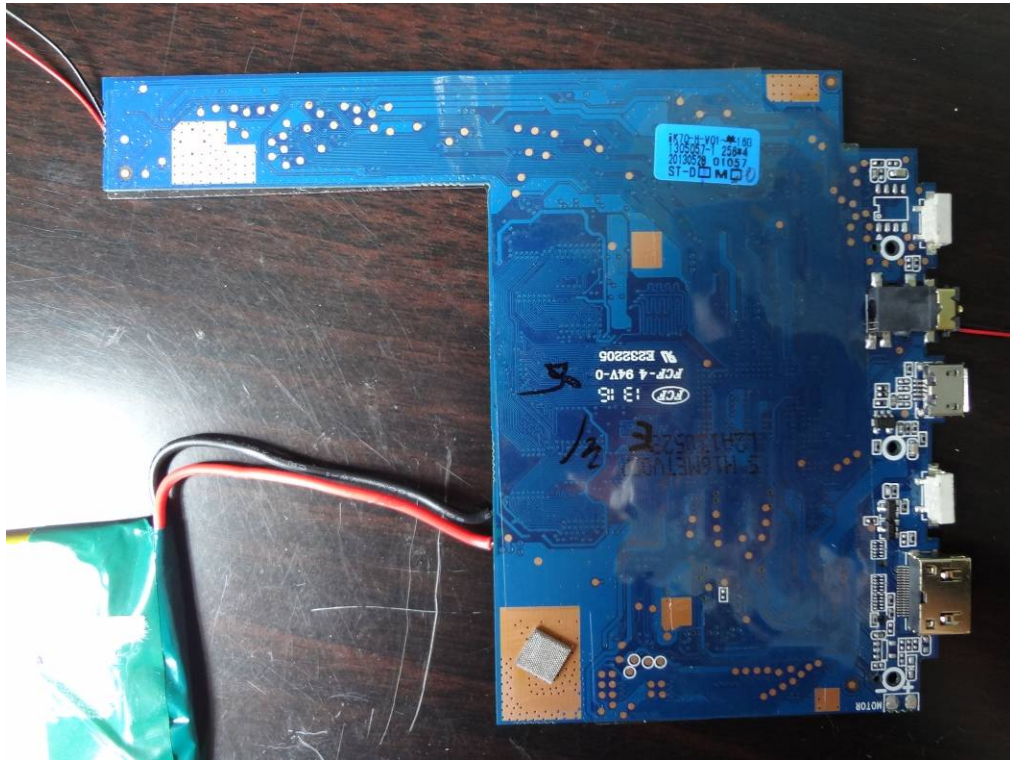
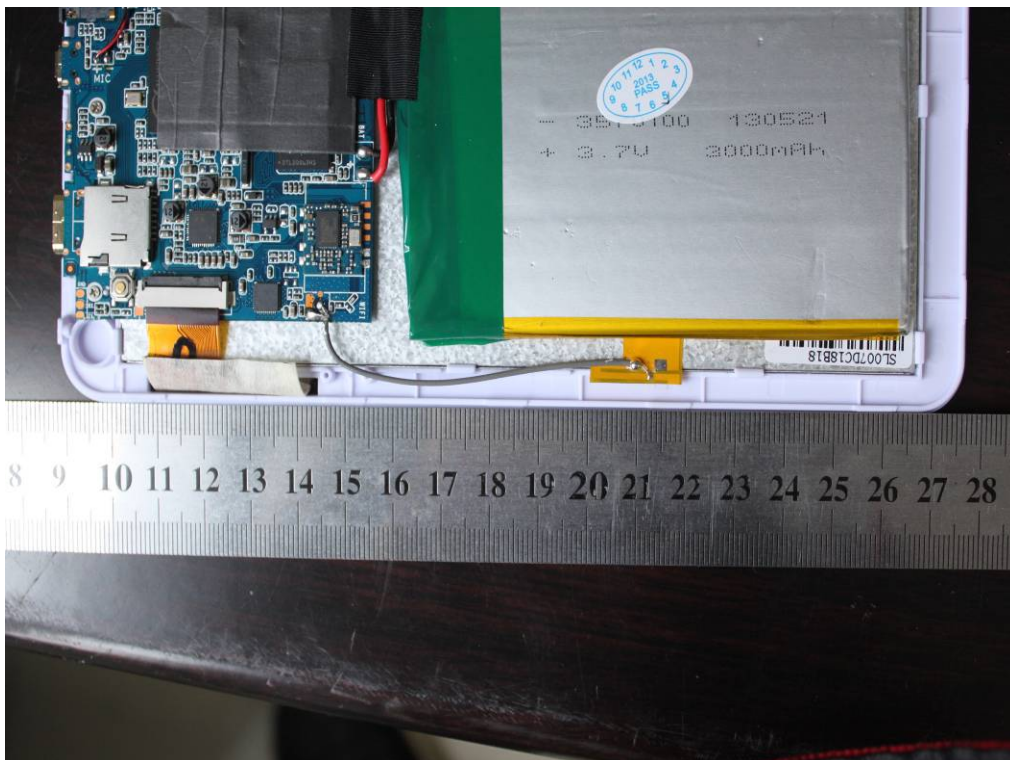


PHOTO OF WIFI ANTENNA



-----END OF REPORT-----