TEST REPORT

Date: 2013-09-09
Report No.: 60.870.13.030.01F

Applicant:	XiangDe Electronic Technology (Shenzhen)Co., Ltd Blg C16 Fuyuan Industrial Area,No.111,Zhoushi Road, Xixiang Street, Baoan, Shenzhen City, China
Description of Samples:	Model name: 7" MID Brand name: --- Model no.: PI070H04AA FCCID: RQ2PI070H04AA
Date Samples Received:	2013-07-27
Date Tested:	2013-07-31 to 2013-08-19
Investigation Requested:	FCC Part 15 Subpart C, Section 15.247
Conclusions:	The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.
Remarks:	----

Checked by:

Ray Cheung
Project Engineer
Wireless & Telecom department

Approved by:-

Jeff Pong
Operation Manager
Wireless & Telecom department

CONTENT:

5.0 List of Measurement Equipments

Appendix A

Photos of Test Setup

Appendix B

External EUT Photos

Appendix C

Internal EUT Photos

1.0 General Details

1.1 Test Laboratory

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.
Electronic testing Building, Shahe Road, Xili, Nanshan District,
Shenzhen, 518055, P.R. China

Registration Number: 406086

Tested By: 
Lu Lei

Note: All the data of this report which are copied by Report No. SET2013-05310 from CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

1.2 Applicant Details

Applicant

XiangDe Electronic Technology (Shenzhen)Co., Ltd
Blg C16 Fuyuan Industrial Area, No.111, Zhoushi Road,
Xixiang Street, Baoan, Shenzhen City, China

Manufacturers

XiangDe Electronic Technology (Shenzhen)Co., Ltd
Blg C16 Fuyuan Industrial Area, No.111, Zhoushi Road,
Xixiang Street, Baoan, Shenzhen City, China

1.3 Equipment Under Test [EUT]

Description of EUT

Product Description:	7" MID
Model No.:	PI070H04AA
Brand Name:	---
FCCID:	RQ2PI070H04AA
Rating:	5VDC, 1000mA Powered by AD/DC Switching Adaptor
Operated Frequency:	2412 – 2462 MHz (802.11b/g/n – H20) 2422 – 2452 MHz (802.11n – HT40)
No. of Operated Channel:	11 CH / (802.11b/g/n-HT20) ; 9CH / (802.11n – HT40)
Data Rate:	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0-7, up to 150Mbps
Modulation:	DSSS (BPSK, QPSK, CCK) and OFDM (BPSK/QPSK/16-QAM/ 64-QAM)
Accessories and Auxiliary Equipments:	AC/DC Switching Adaptor (JD-050100), Router, Notebook
Software / Hardware version	Android 4.1 / V3.0
Antenna Type:	PIFA
Manufacturer of Antenna:	---
Antenna Gain:	2.0dBi

General Operation of EUT

The EUT is a Tablet, it contains WIFI Module operating at 2.4GHz ISM band; it supports 802.11b, 802.11g, 802.11n.

Description of Test Modes

The EUT has been tested under operating condition. Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1Mbps data rate (worst case) are chosen for the final testing.
IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6Mbps data rate (the worst case) are chosen for the final testing.
IEEE802.11n – HT20: Channel 1(2412MHz), Channel 6 (2437MHz) and Channel 11 (2462MHz) with MSC0 (worst case) are chosen for the final testing.
IEEE802.11n – HT40: Channel 1(2422MHz), Channel 6 (2437MHz) and Channel 11 (2452MHz) with MSC0 (worst case) are chosen for the final testing.

1.4 Related Submittal(s) Grants

This is a signal application subject to Certificate Authorization.

2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4: 2003

2.2 Test Standards and Results Summary Tables

Test Condition	Test Requirement	Test Result	
		Pass	N/A
Number of Frequency Hopping	Section 15.247 (a1)	☐	☒
6dB Bandwidth Measurement	Section 15.247 (a2)	☒	☐
Power Spectral Density	Section 15.247 (e)	☒	☐
Pseudorandom Hopping Algorithm	Section 15.247 (a1)	☐	☒
Band Edge Measurement	Section 15.247	☒	☐
Maximum Output Power	Section 15.247 (b3)	☒	☐
Out of Band Emission	Section 15.247 (d)	☒	☐
Radiated Emission in Restricted Band	Section 15.247 (d)	☒	☐
Conducted Emission on AC Mains	Section 15.207	☒	☐
RF Exposure	Section 15.247 (i)	☒	☐
Antenna Requirement	Section 15.203	☒ See note 1	☐

Note 1 : The EUT uses a permanently attached antenna, which in accordance to Section 15.203, is considered sufficient to comply with the provisions of this section.

Remark: N/A - Not Applicable

3.0 Test Methodology

3.1 Radiated Emission

The sample was placed 0.8m above the ground plane on a standard emission test site *. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

3.2 Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

FS = R + System Factor
System Factor = AF + CF + FA – PA

Where FS = Net Field Strength in dBuV/m at 3 meters.
R = Reading of Spectrum Analyzer / Test Receiver in dBuV.
AF = Antenna Factor in dB.
CF = Cable Attenuation Factor in dB.
FA = Filter Attenuation Factor in dB.
PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.

3.3 Conducted Emissions

The test was performed in accordance with ANSI C63.4: 2003, with the following: initial measurements were performed in peak and average detection modes on the live line of personal computer, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

4.0 Test Results

4.1 6 dB Bandwidth Measurement

Test Requirement:	FCC part 15 section 15.247 (a2)
Test Date:	2013-08-01
Mode of Operation:	Transmitting continuously mode
Detector Function:	Max Hold

Result: PASS

Test Setup:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

For 802.11B Mode

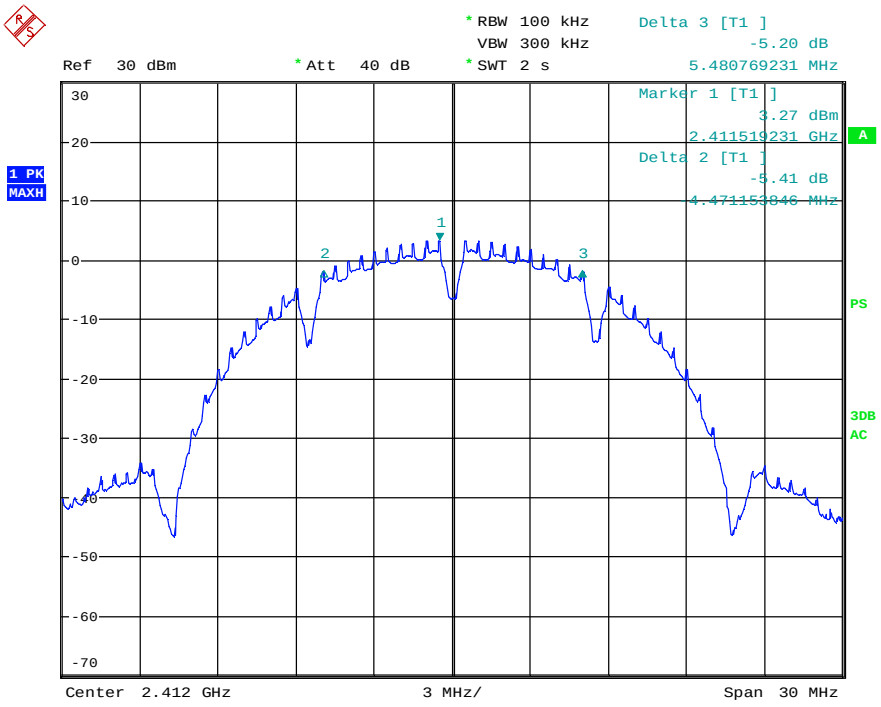
Channel	Measured frequency (MHz)	6dB Bandwidth (MHz)
Lowest	2412	9.95
Middle	2437	10.09
Highest	2462	10.05

This result is used for checking the systems using digital modulation techniques may operate in the 2400–2483.5 MHz.

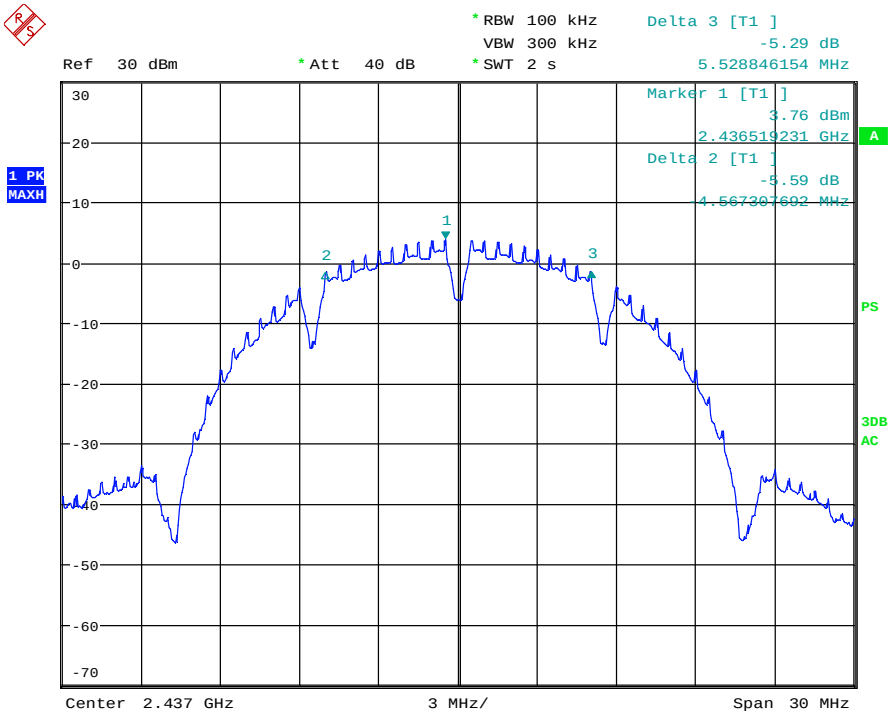
Limits for 6 dB bandwidth [Section 15.247 (a2)]:

The minimum 6 dB bandwidth shall be at least 500 kHz.

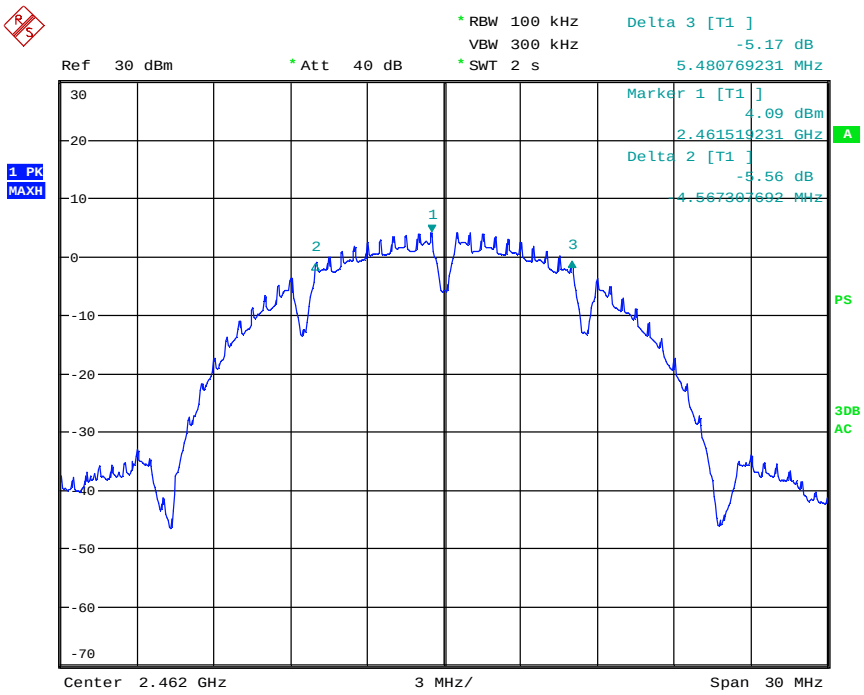
For 802.11B Mode
Result data graph shows 6 dB bandwidth, CF = 2.412GHz



Result data graph shows 6 dB bandwidth, CF = 2.437GHz



Result data graph shows 6 dB bandwidth, CF = 2.462GHz



For 802.11G Mode

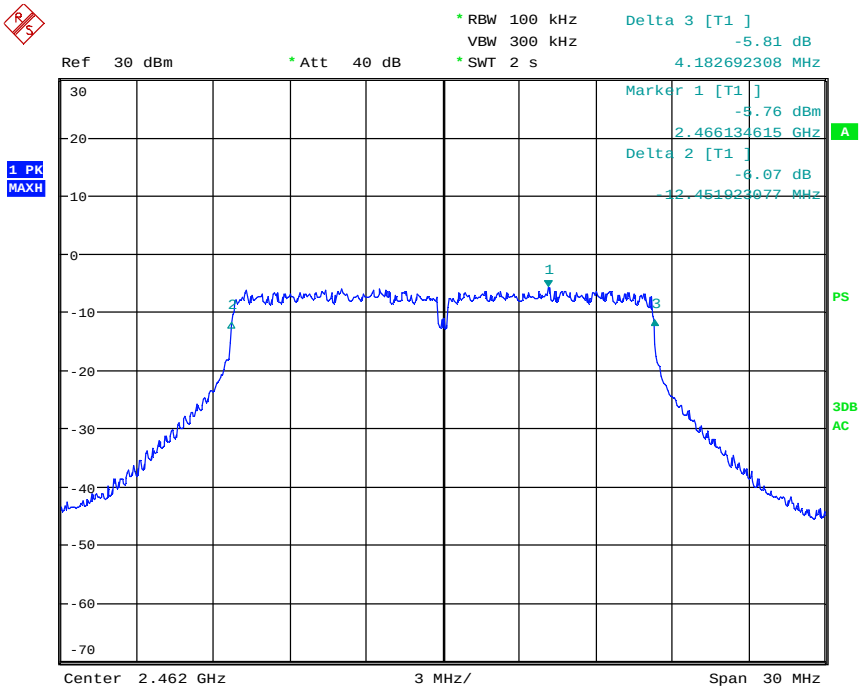
Channel	Measured frequency (MHz)	6dB Bandwidth (MHz)
Lowest	2412	16.63
Middle	2437	16.58
Highest	2462	16.63

This result is used for checking the systems using digital modulation techniques may operate in the 2400–2483.5 MHz.

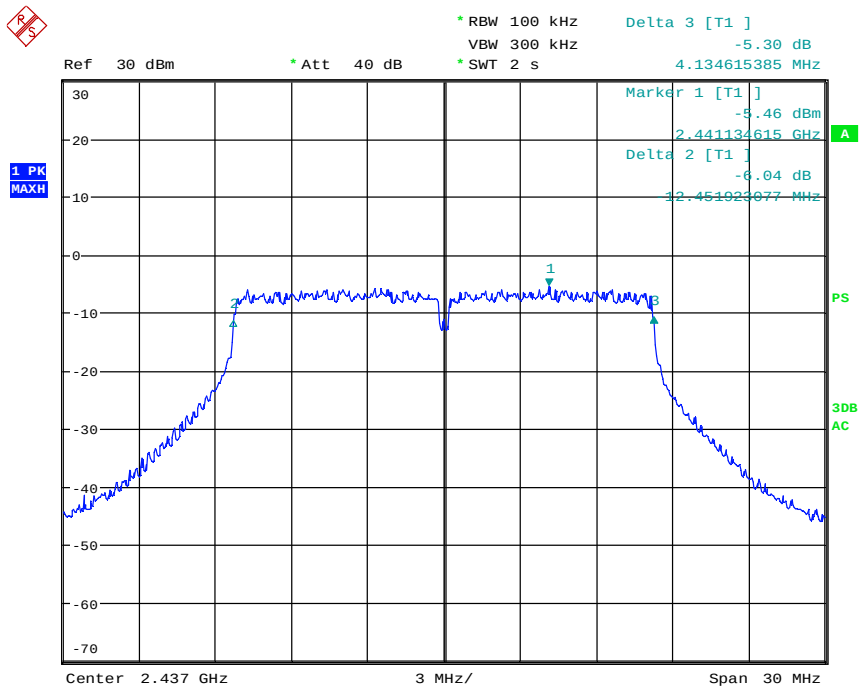
Limits for 6 dB bandwidth [Section 15.247 (a2)]:

The minimum 6 dB bandwidth shall be at least 500 kHz.

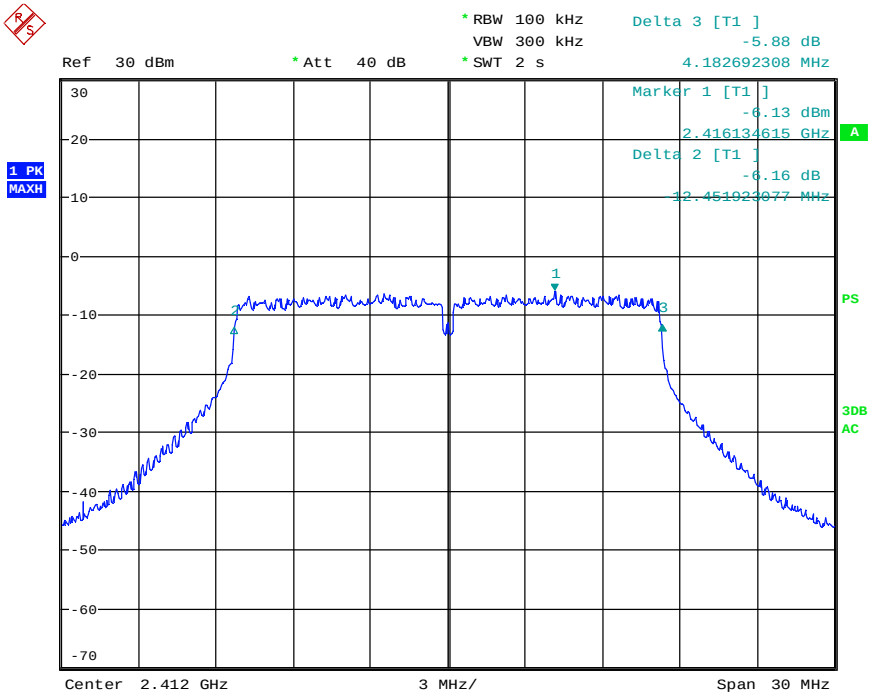
For 802.11G Mode
Result data graph shows 6 dB bandwidth, CF = 2.412GHz



Result data graph shows 6 dB bandwidth, CF = 2.437GHz



Result data graph shows 6 dB bandwidth, CF = 2.462GHz



For 802.11N – HT20 Mode

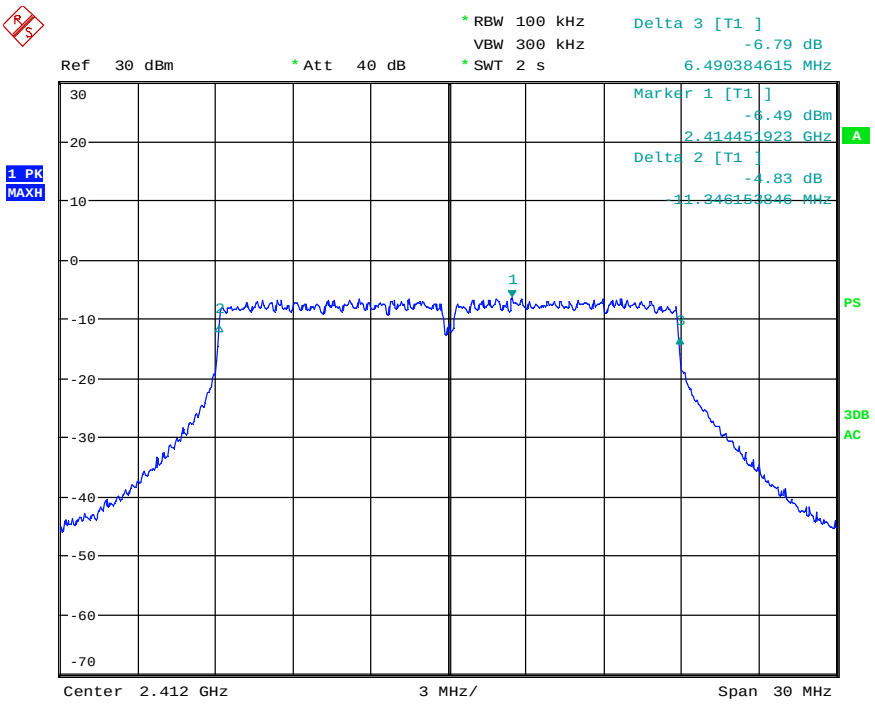
Channel	Measured frequency (MHz)	6dB Bandwidth (MHz)
Lowest	2412	17.84
Middle	2437	17.79
Highest	2462	17.84

This result is used for checking the systems using digital modulation techniques may operate in the 2400–2483.5 MHz.

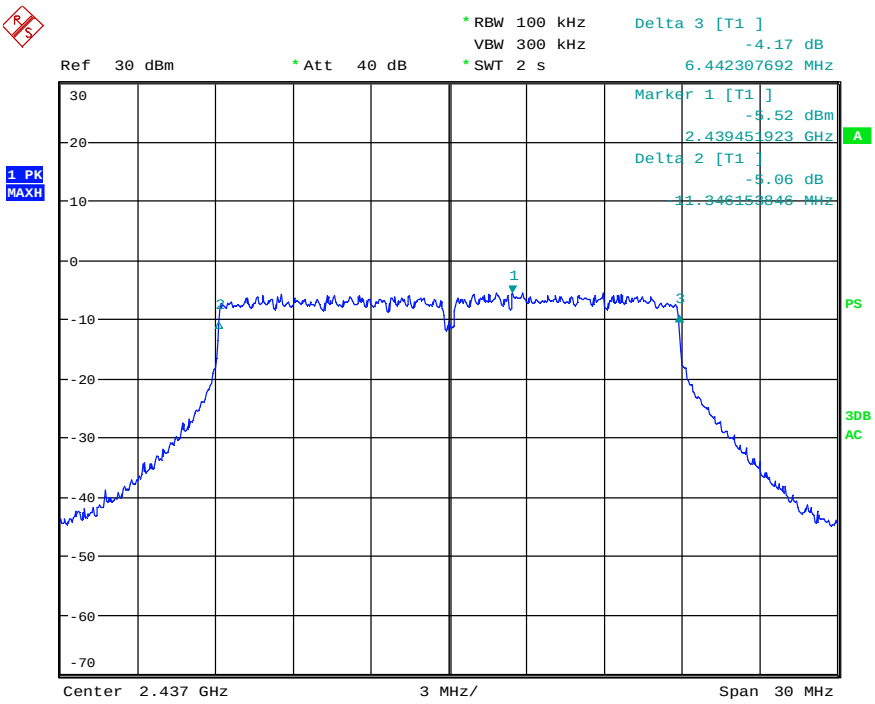
Limits for 6 dB bandwidth [Section 15.247 (a2)]:

The minimum 6 dB bandwidth shall be at least 500 kHz.

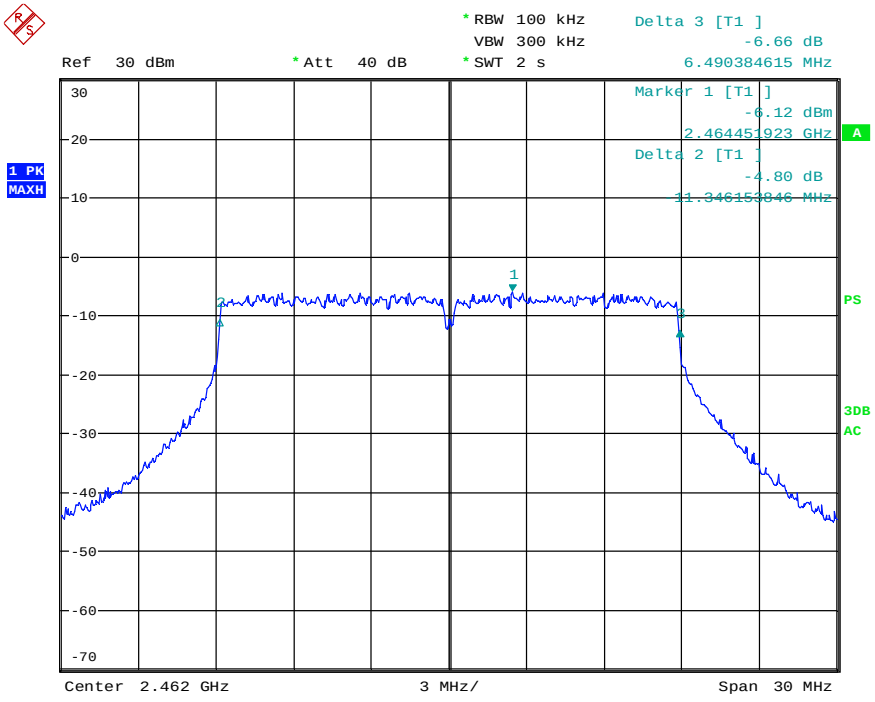
For 802.11N – HT20 Mode
Result data graph shows 6 dB bandwidth, CF = 2.412GHz



Result data graph shows 6 dB bandwidth, CF = 2.437GHz



Result data graph shows 6 dB bandwidth, CF = 2.462GHz



For 802.11N – HT40 Mode

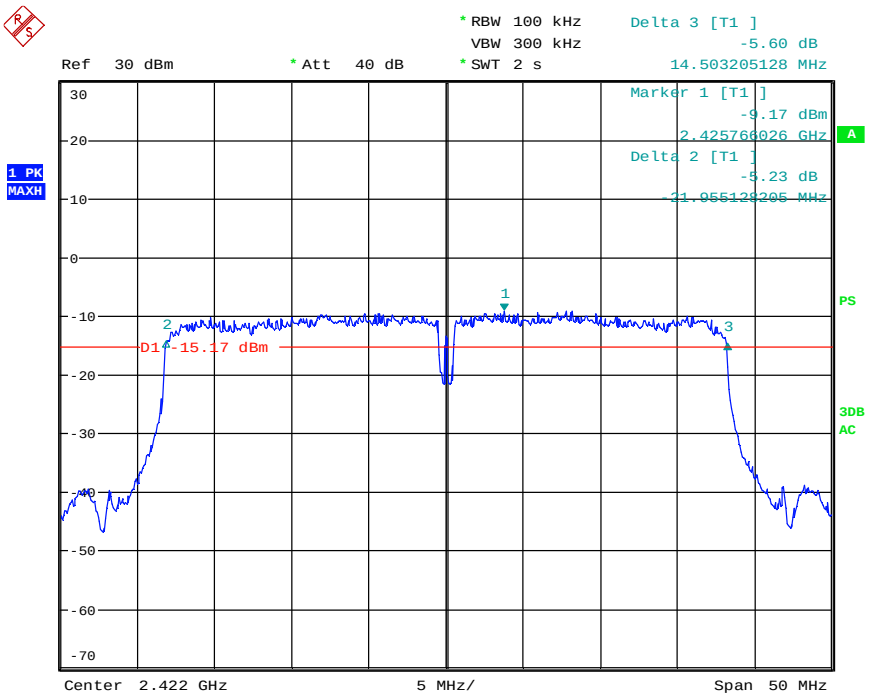
Channel	Measured frequency (MHz)	6dB Bandwidth (MHz)
Lowest	2422	36.46
Middle	2437	37.32
Highest	2452	37.31

This result is used for checking the systems using digital modulation techniques may operate in the 2400–2483.5 MHz.

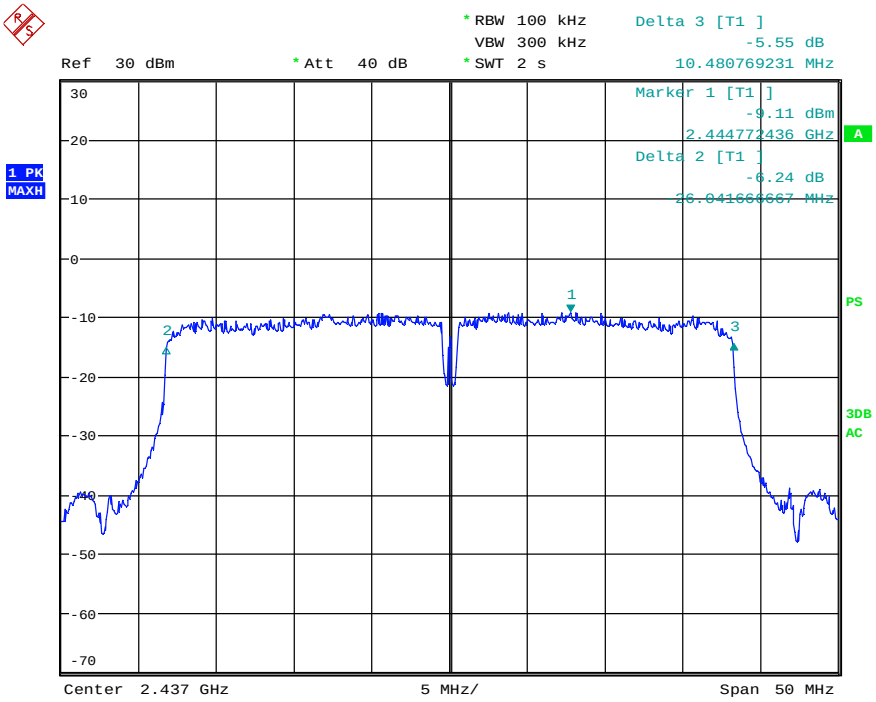
Limits for 6 dB bandwidth [Section 15.247 (a2)]:

The minimum 6 dB bandwidth shall be at least 500 kHz.

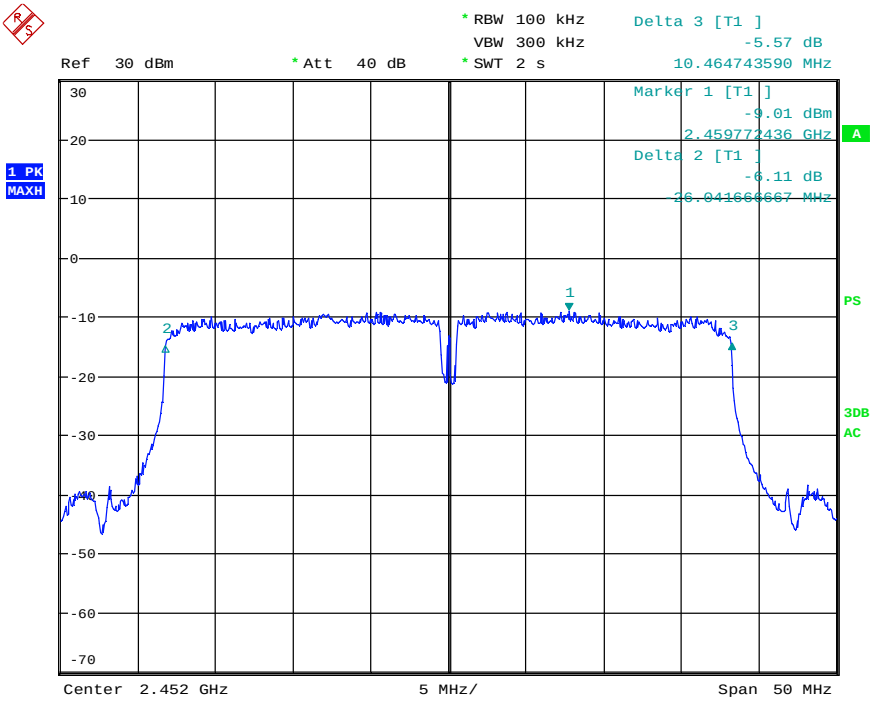
For 802.11N – HT40 Mode
Result data graph shows 6 dB bandwidth, CF = 2.422GHz



Result data graph shows 6 dB bandwidth, CF = 2.437GHz



Result data graph shows 6 dB bandwidth, CF = 2.452GHz



4.2 Power Spectral Density

Test Requirement: FCC part 15 section 15.247 (e)
Test Date: 2013-08-01
Mode of Operation: Transmitting continuously mode
Detector Function: Peak

Result : PASS

Measured Result :

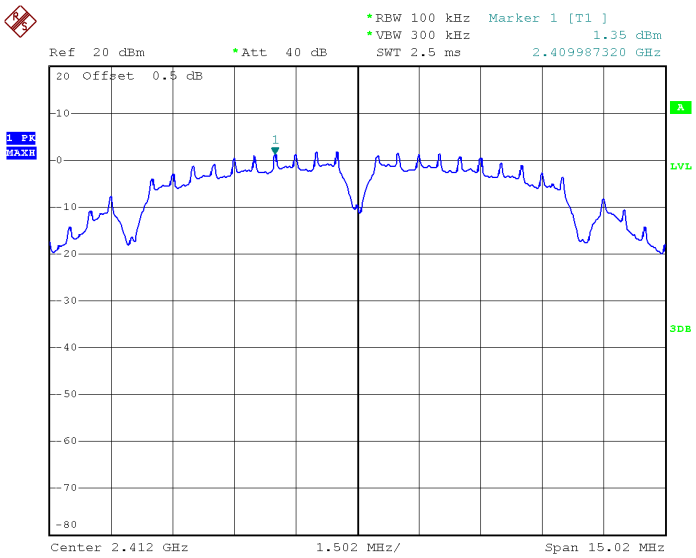
Test mode	Test channel	Reading (dBm)	Limit (dBm)
802.11B	Low channel (2412MHz)	1.35	8
	Middle channel (2437MHz)	1.73	8
	High channel (2462MHz)	1.65	8
802.11G	Low channel (2412MHz)	-6.06	8
	Middle channel (2437MHz)	-5.98	8
	High channel (2462MHz)	-6.20	8
802.11N-HT20	Low channel (2412MHz)	-6.92	8
	Middle channel (2437MHz)	-6.46	8
	High channel (2462MHz)	-6.47	8
802.11N-HT40	Low channel (2422MHz)	-9.28	8
	Middle channel (2437MHz)	-8.96	8
	High channel (2452MHz)	-9.05	8

Note: 1. Above testing data has been considered with 0.2dB cable loss which between antenna port and spectrum.

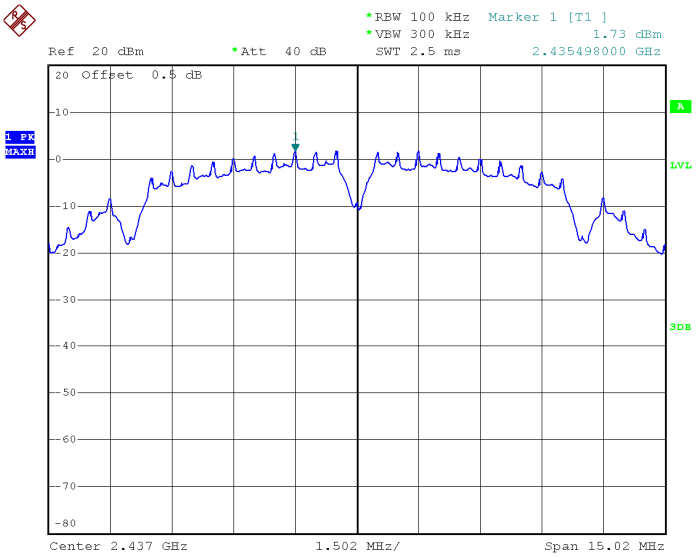
Limits for power spectral density [Section 15.247 (e)]:

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

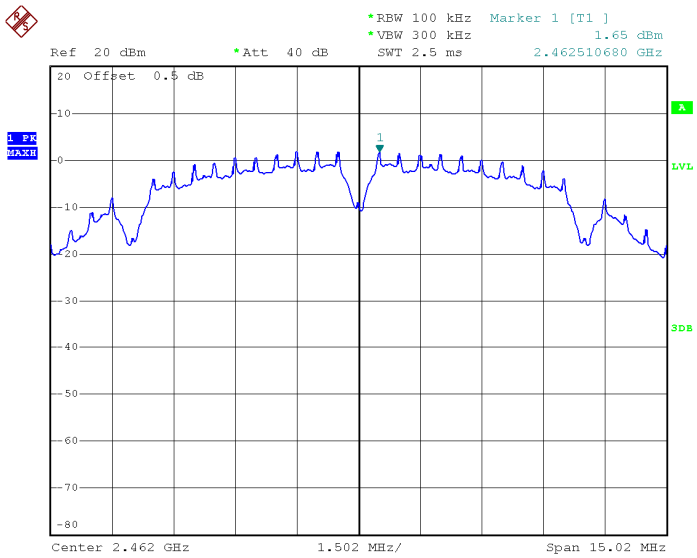
For 802.11B Mode
Result data graph shows Low channel power spectrum density



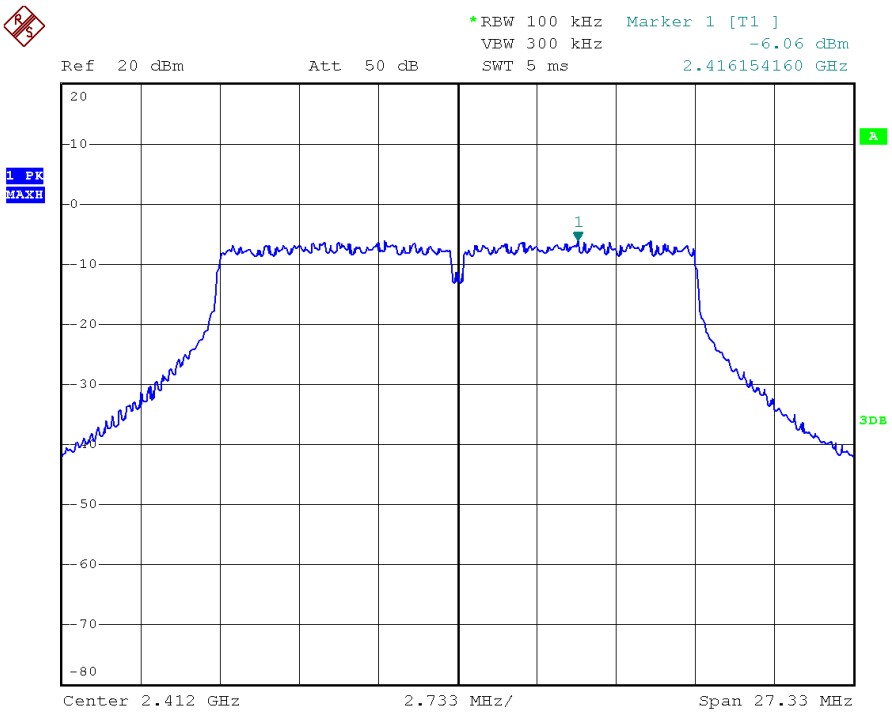
Result data graph shows middle channel power spectrum density



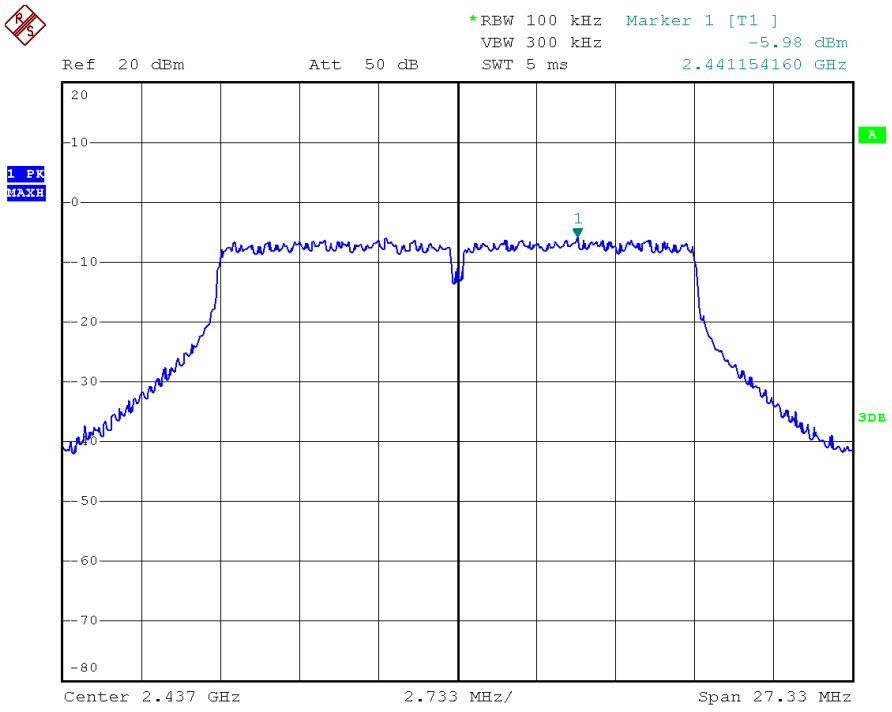
Result data graph shows high channel power spectrum density



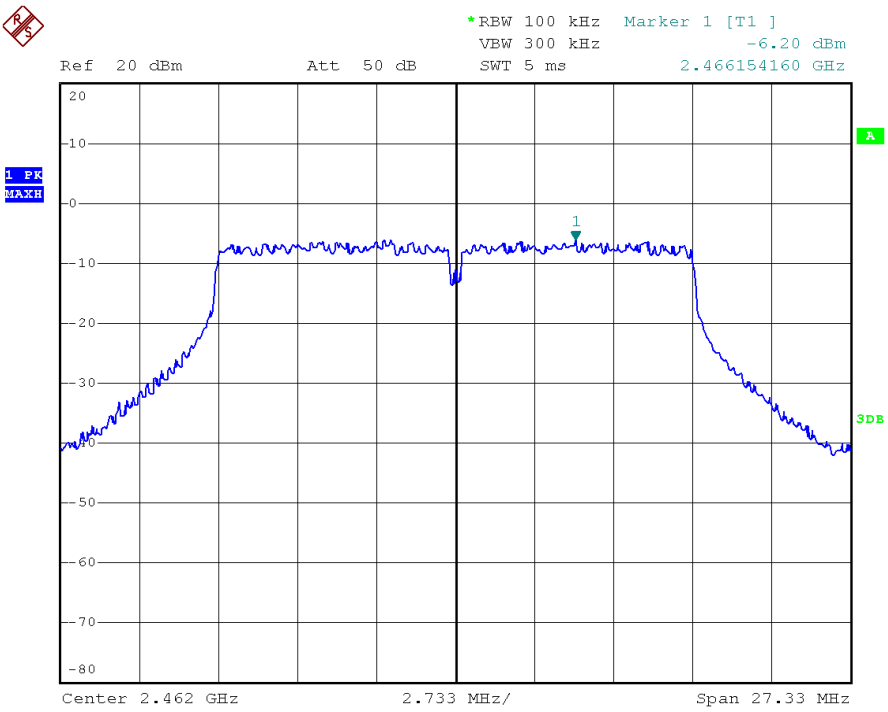
For 802.11G Mode
Result data graph shows Low channel power spectrum density



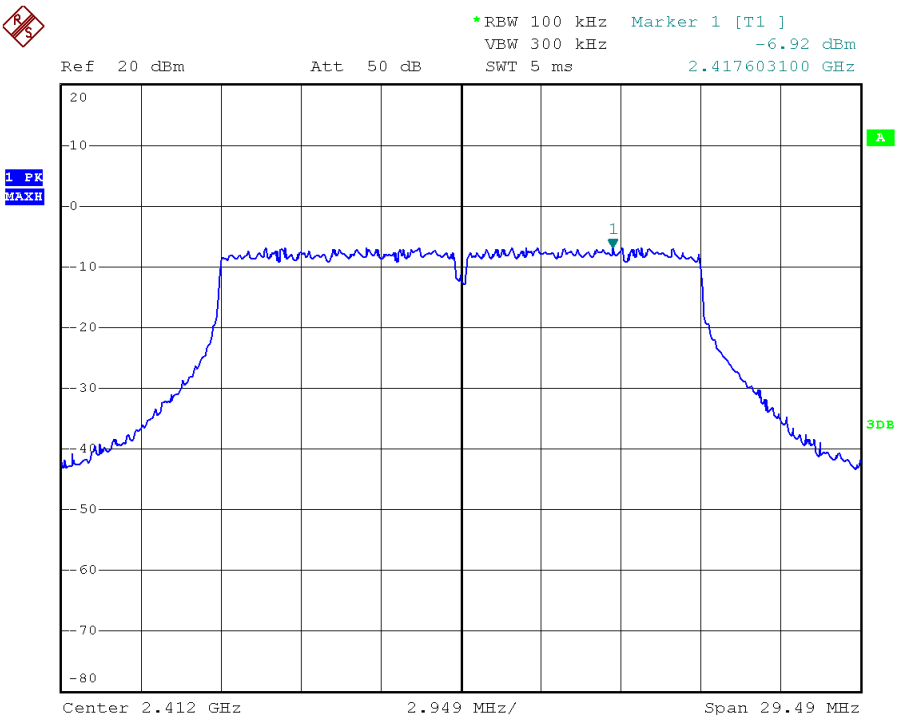
Result data graph shows middle channel power spectrum density



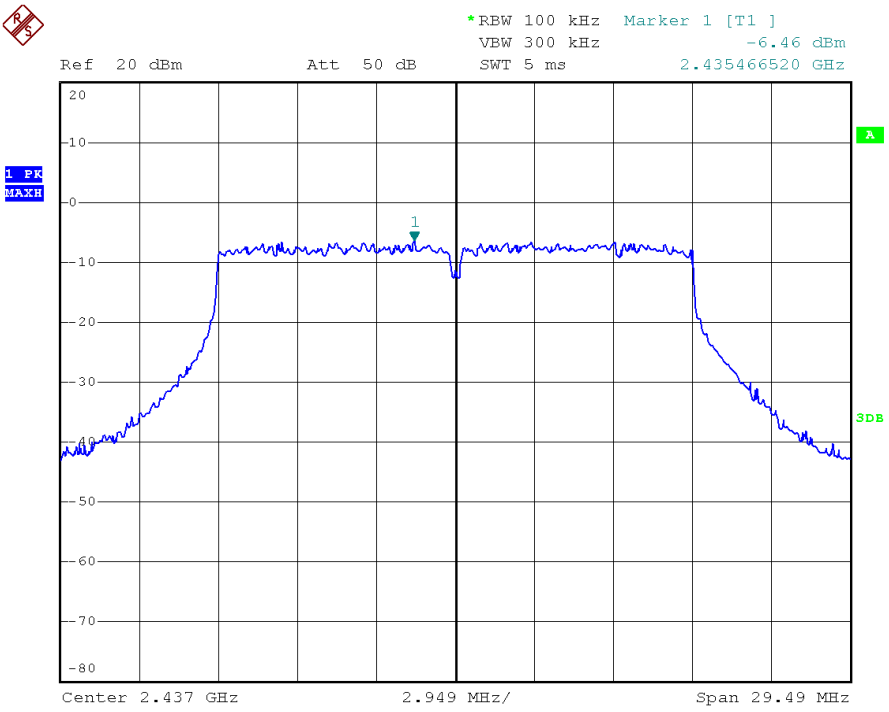
Result data graph shows high channel power spectrum density



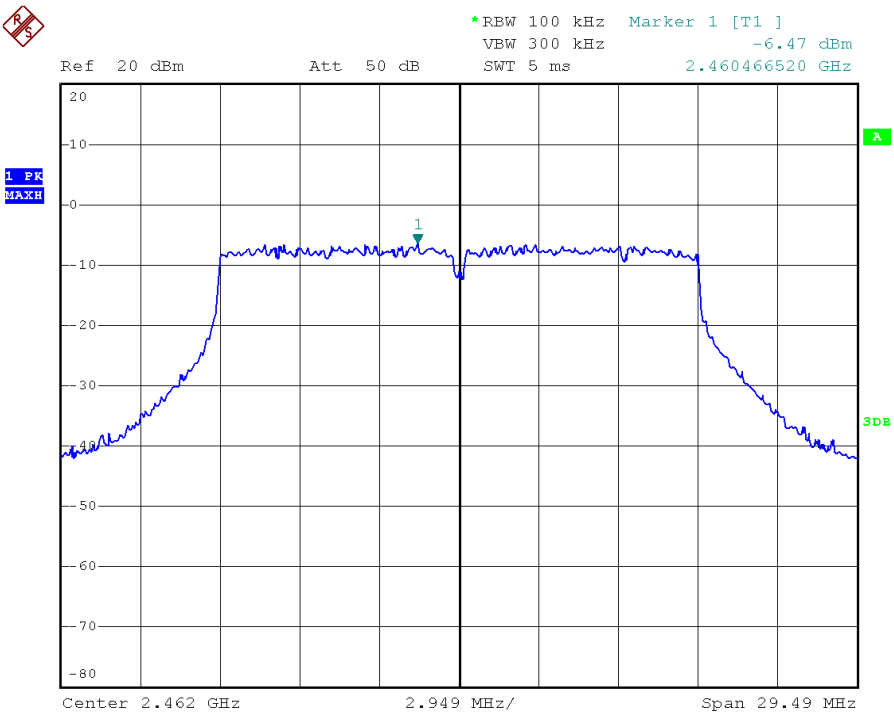
For 802.11N-HT20 Mode
Result data graph shows Low channel power spectrum density



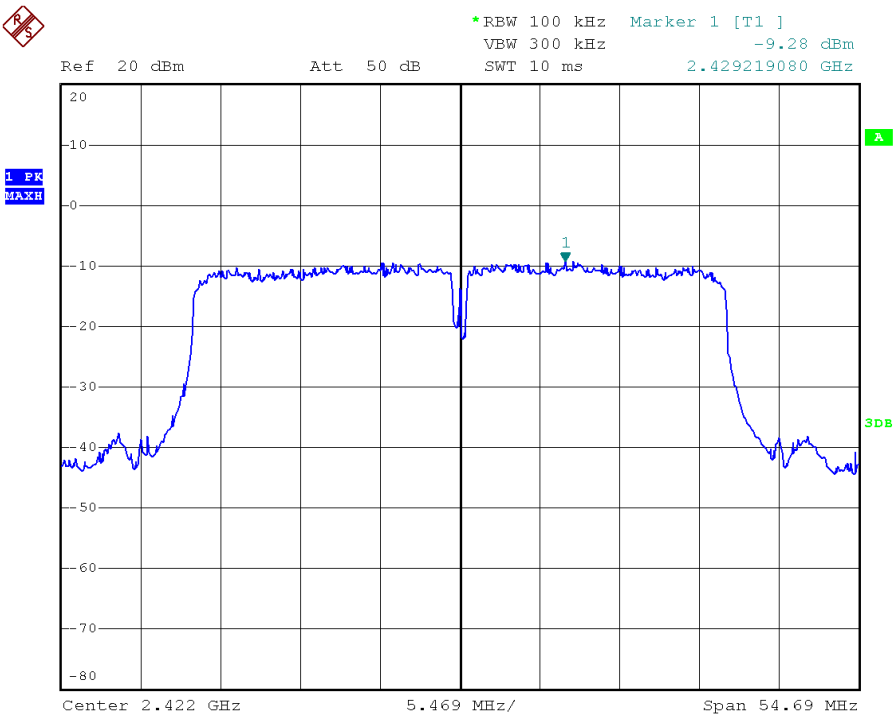
Result data graph shows middle channel power spectrum density



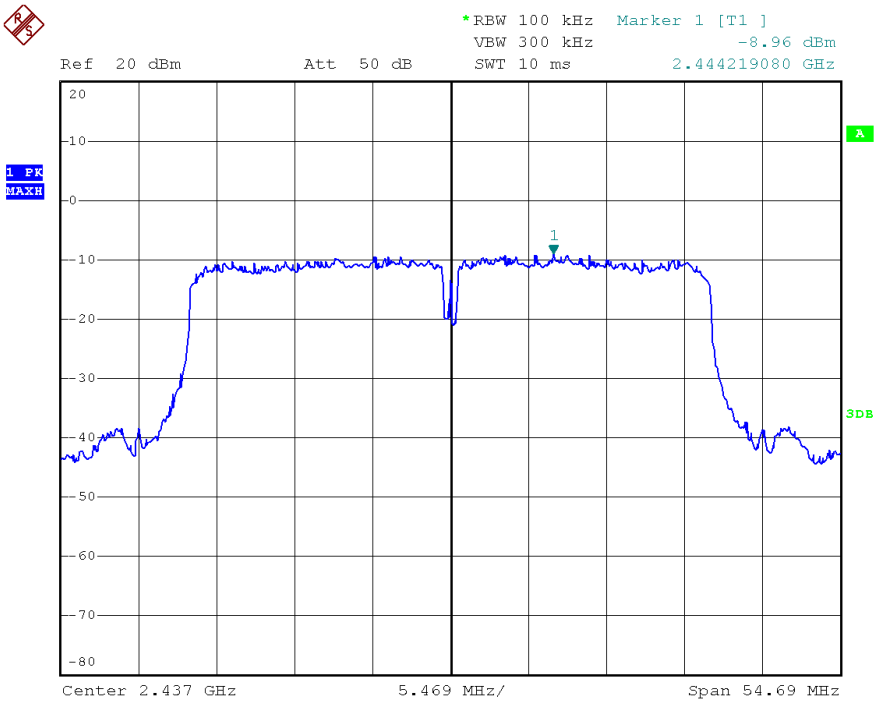
Result data graph shows high channel power spectrum density



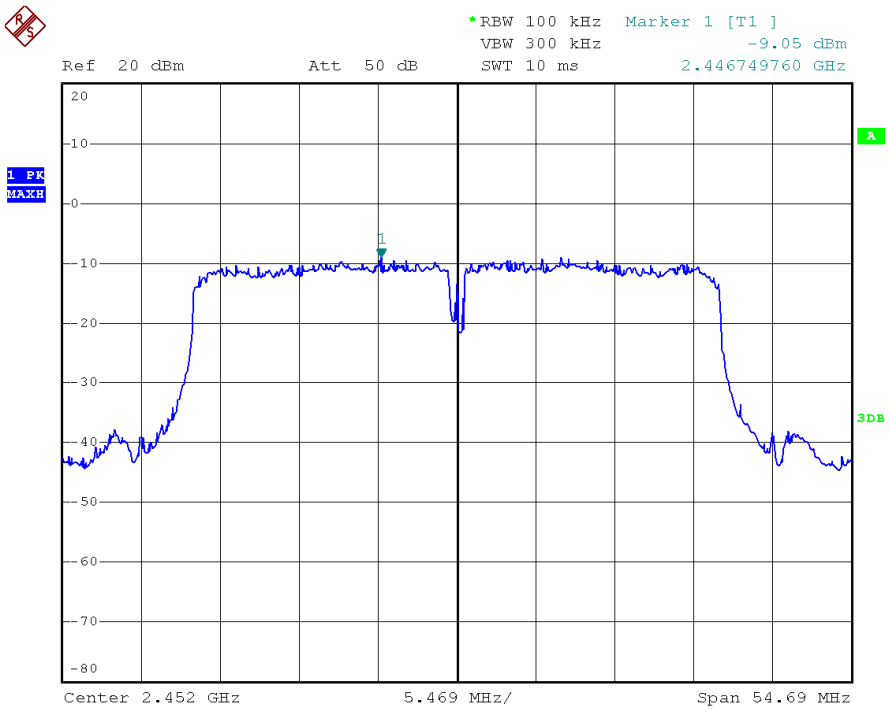
For 802.11N-HT40 Mode
Result data graph shows Low channel power spectrum density



Result data graph shows middle channel power spectrum density



Result data graph shows high channel power spectrum density



4.3 Band Edge Measurement

Test Requirement:	FCC part 15 section 15.247
Test Date:	2013-08-01
Mode of Operation:	Transmitting continuously mode.
Detector Function:	Max Hold

Result: PASS

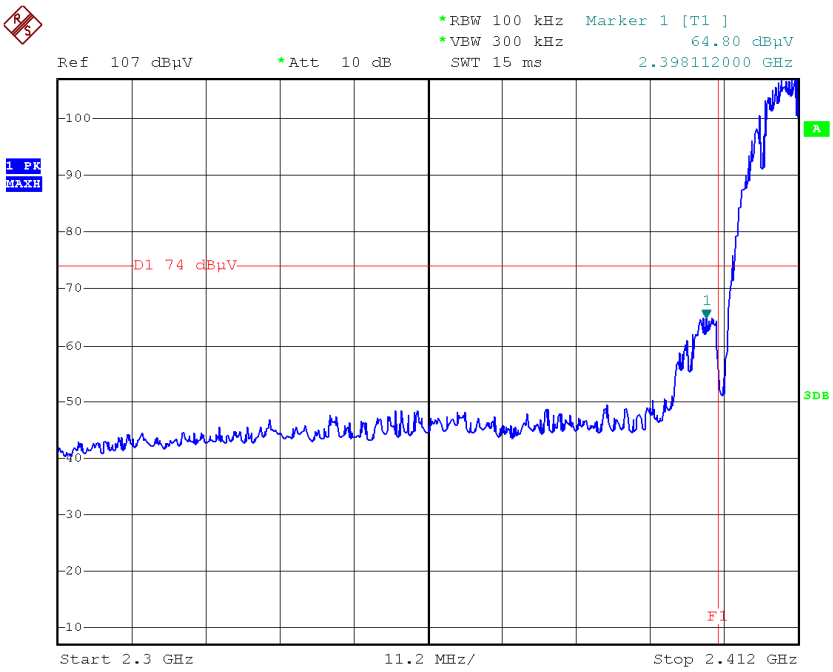
Measured Result :

Refer to the figure, it shows the frequency of lower band edge and upper band edge separately.

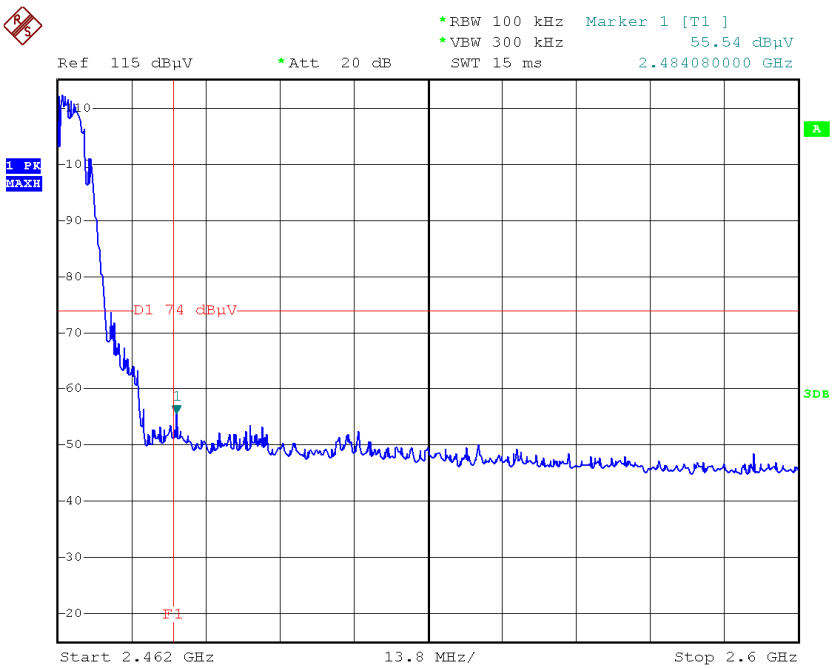
Limits of Band Edge for Carrier Frequencies Operated within the Bands [Section 15.247]:

The carrier frequencies should operate within 2400-2483.5MHz.

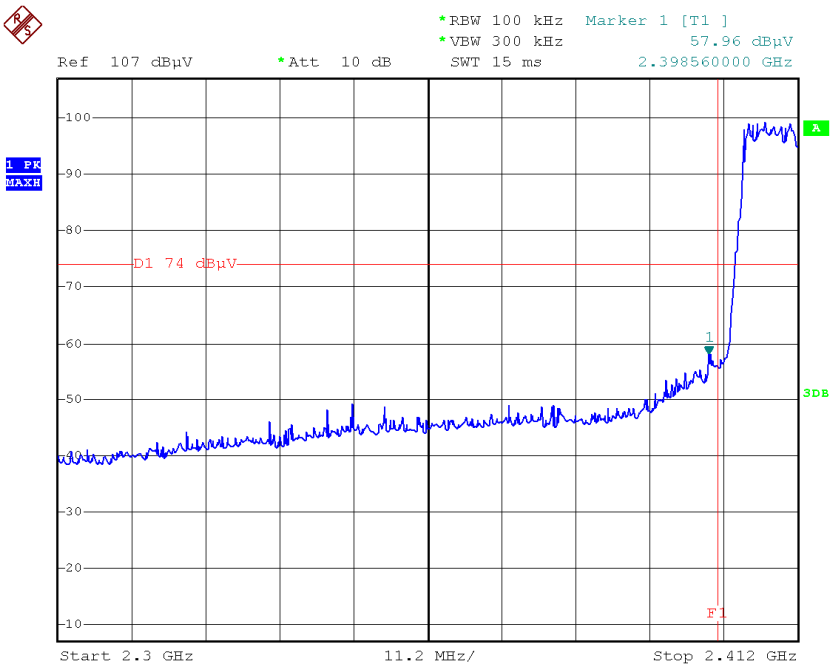
Result data graph shows the frequency of lowest channel.
For 802.11B Low Channel Mode



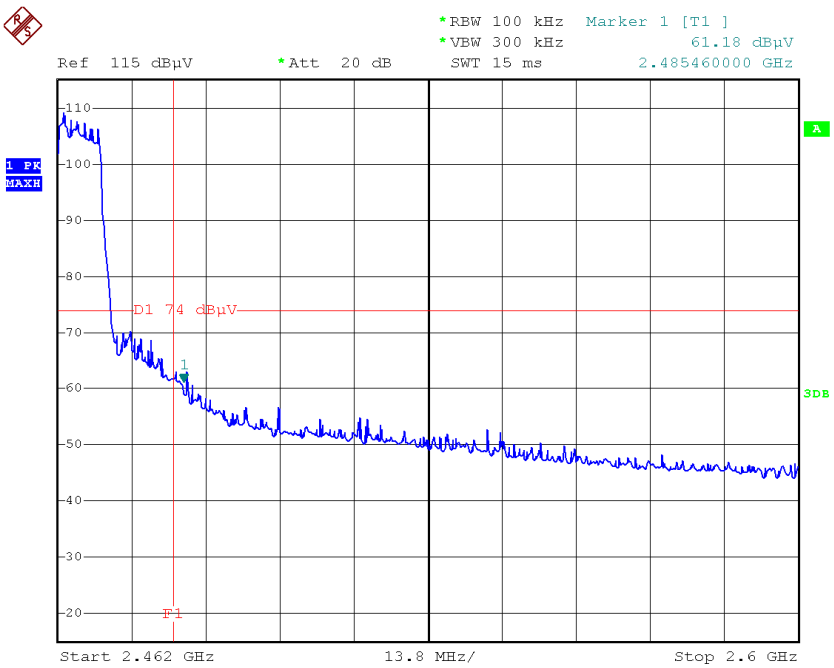
For 802.11B High Channel Mode



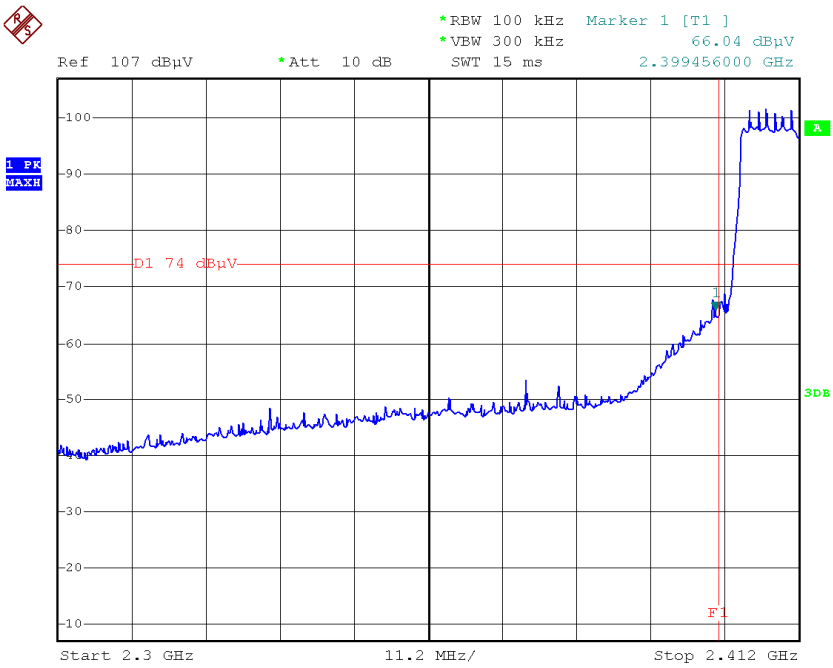
For 802.11G Low Channel Mode



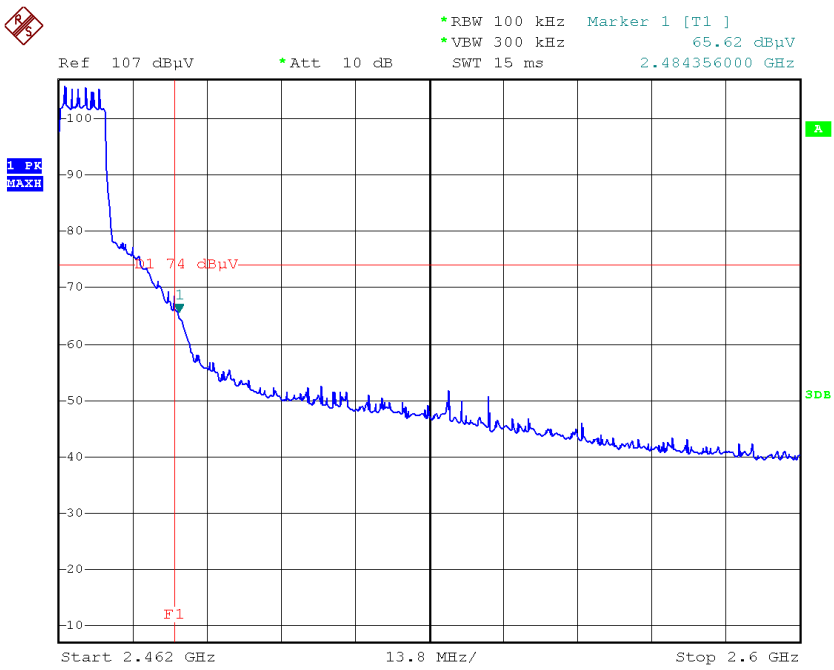
For 802.11G High Channel Mode



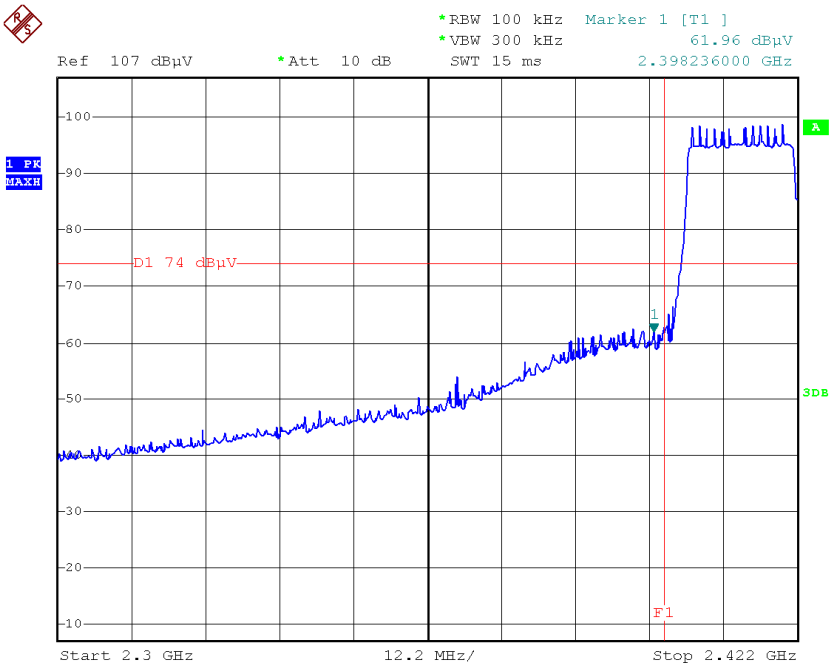
For 802.11N – HT20 Low Channel Mode



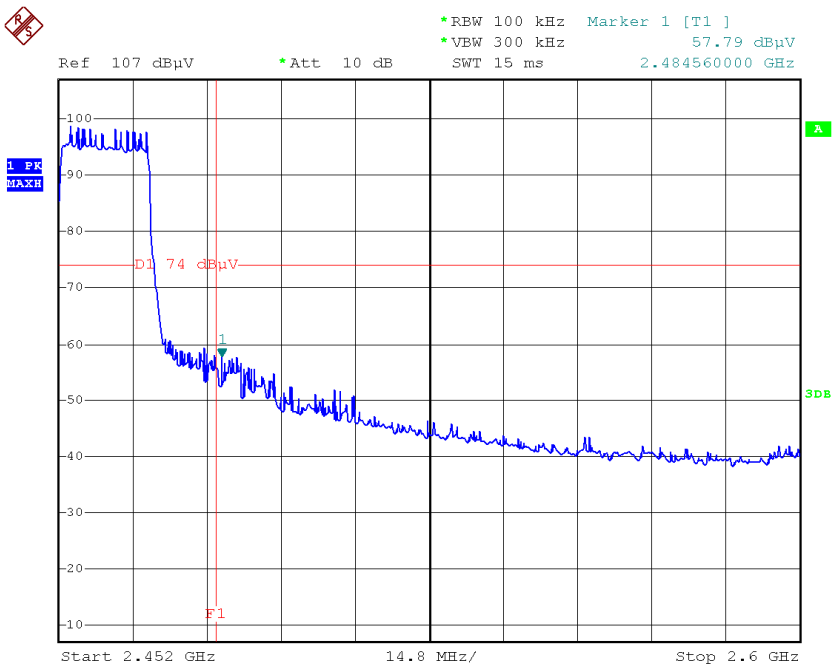
For 802.11N – HT20 High Channel Mode



For 802.11N – HT40 Low Channel Mode



For 802.11N – HT40 High Channel Mode



4.4 Maximum Output Power

Test Requirement:	FCC part 15 section 15.247 (b3)
Test Method:	ANSI C63.4:2003
Test Date:	2013-08-01
Mode of Operation:	Transmitting continuously mode
Detector Function:	Peak
Measurement BW:	RBW 1MHz ; VBW 3MHz

Test Procedure :

According to section 15.247(b)-power output of the KDB-558074 (2013), the measurement procedure PK2 was used, the following is the measurement procedure.

1. Set the span ≥ 1.5 x DTS bandwidth (6dB bandwidth).

2. Set RBW = 1 MHz, Set VBW =3 MHz.

3. Detector = peak; sweep time =auto couple.

4. Trace mode = max hold; allow the trace to fully stabilize.

5. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

Result : PASS

Transmitting Mode: Transmits continuously

Test mode	Frequency MHz	Output Power dBm	Limit dBm	Limit mW
802.11b 1Mbps	2412	17.02	30	1000
	2437	18.44	30	1000
	2462	18.51	30	1000
802.11g 6Mbps	2412	16.95	30	1000
	2437	16.57	30	1000
	2462	16.25	30	1000
802.11n – HT20 MCS0	2412	16.28	30	1000
	2437	16.24	30	1000
	2462	16.74	30	1000
802.11n – HT40 MSC0	2422	15.81	30	1000
	2437	15.86	30	1000
	2452	16.30	30	1000

Note: Above testing data is base on the cable loss which between antenna port and spectrum is 0.2dB

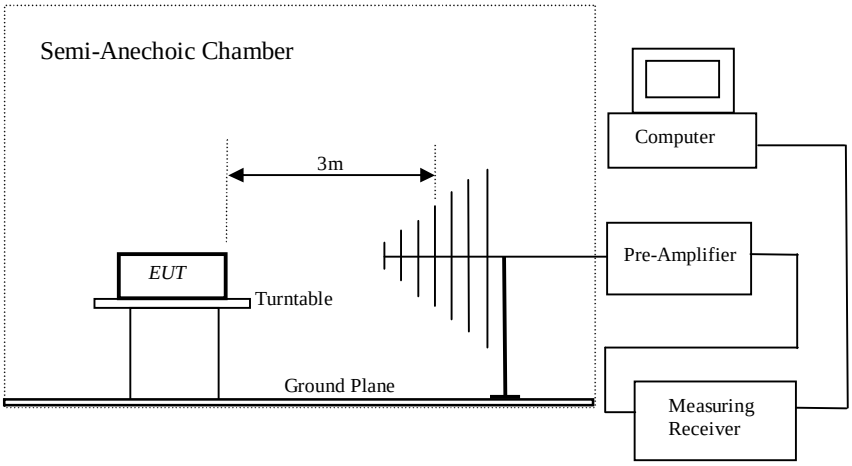
Limits for Maximum Output Power [Section 15.247 (b3)]:

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

4.5 Out of Band Emissions and Emissions in Restricted Bands

Test Requirement:	FCC part 15 section 15.247 (d)
Test Method:	ANSI C63.4:2003
Test Date:	2013-08-01
Mode of Operation:	Transmitting continuously mode
Detector Function:	Peak
Measurement BW:	RBW 100KHz ; VBW 300KHz

Test Setup:



Result : PASS

Out of Frequency Band Emissions:

For out of band emissions that are close to or exceed 20dB attenuation requirement, and emission falls into restricted band, radiated emission was performed in order to show compliance with the general radiated emission requirement.

Result Summary:

Refer to the emission data graph, result shows that the significant emissions detected are with more than 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

Limits for Out of Frequency Band Emission [Section 15.247 (d)]:

In any 100kHz 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 100kHz bandwidth within the band that contains the highest level of the desired power. Attenuation below the general limits specified in Section 15.209(a) is not required.

Limit for Radiated Emission Falling in Restricted Bands [Section 15.209]:

Frequency (MHz)	Field Strength [μV/m]	Field Strength [dBμV/m]
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

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.

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

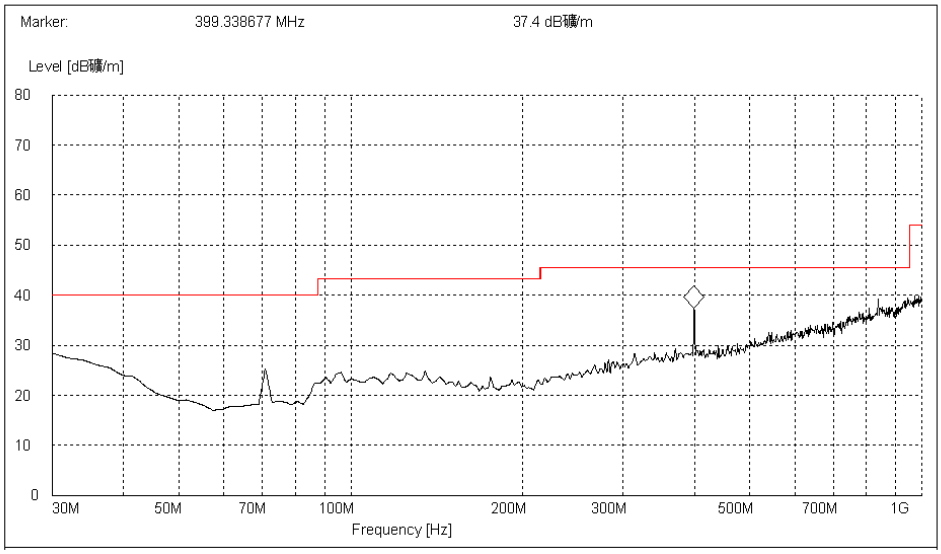
Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

For 9KHz to 30MHz

The test has been performed, and the Radiated Emission level is too low to the limit.

For 30MHz to 1000 MHz



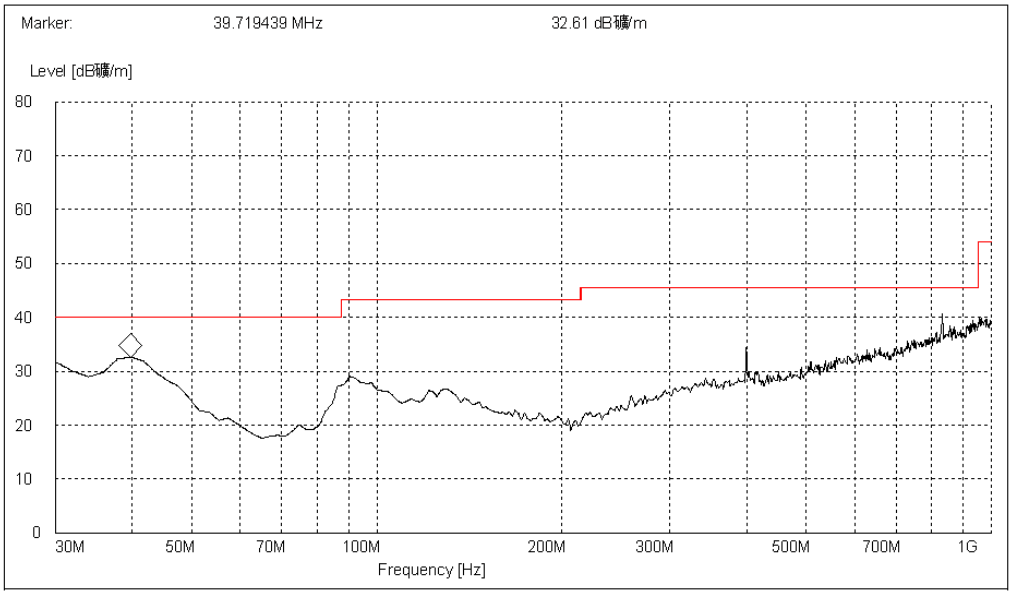
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Degree	Antenna	Verdict
399.339	37.40	N.A	N.A	N.A	46.0	N.A	17	Horizontal	PASS

(Plot A: 30MHz to 1GHz, Antenna Horizontal)

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

Below 1GHz emissions



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Degree	Antenna	Verdict
39.719	32.61	N.A	N.A	N.A	40.0	N.A	72	Vertical	PASS

(Plot B: 30MHz to 1GHz, Antenna Vertical)

For 1GHz to 25GHz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11b--2412MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2412.00	110.31	PK	/	/	1.00 H	84	113.71	28.3	4.90	-36.6
1	*2412.00	99.85	AV	/	/	1.00 H	84	103.25	28.3	4.90	-36.6
2	4824.00	54.19	PK	74.00	19.81	1.00 H	61	50.99	32.7	7.00	-36.5
2	4824.00	46.38	AV	54.00	7.62	1.00 H	61	43.18	32.7	7.00	-36.5
3	7236.00	51.32	PK	74.00	22.68	1.00 H	348	41.92	35.8	8.90	-35.3
3	7236.00	44.03	AV	54.00	9.97	1.00 H	348	34.63	35.8	8.90	-35.3
4	9648.00	50.65	PK	74.00	23.35	1.00 H	277	38.05	37.2	10.20	-34.8
4	9648.00	44.30	AV	54.00	9.70	1.00 H	277	31.7	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11b–2412MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2412.00	112.89	PK	/	/	1.00 V	268	116.29	28.3	4.90	-36.6
1	*2412.00	103.77	AV	/	/	1.00 V	268	107.17	28.3	4.90	-36.6
2	4824.00	53.71	PK	74.00	20.29	1.00 V	332	50.51	32.7	7.00	-36.5
2	4824.00	45.96	AV	54.00	8.04	1.00 V	332	42.76	32.7	7.00	-36.5
3	7236.00	53.44	PK	74.00	20.56	1.00 V	311	44.04	35.8	8.90	-35.3
3	7236.00	47.07	AV	54.00	6.93	1.00 V	311	37.67	35.8	8.90	-35.3
4	9648.00	54.47	PK	74.00	19.53	1.00 V	172	41.87	37.2	10.20	-34.8
4	9648.00	47.45	AV	54.00	6.55	1.00 V	172	34.85	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11b--2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	111.64	PK	/	/	1.00 H	241	114.84	28.3	5.10	-36.6
1	*2437.00	101.72	AV	/	/	1.00 H	241	104.92	28.3	5.10	-36.6
2	4874.00	52.95	PK	74.00	21.05	1.00 H	232	49.55	32.3	7.60	-36.5
2	4874.00	45.72	AV	54.00	8.28	1.00 H	232	42.32	32.3	7.60	-36.5
3	7311.00	51.56	PK	74.00	22.44	1.00 H	254	42.16	36.1	8.60	-35.3
3	7311.00	43.69	AV	54.00	10.31	1.00 H	254	34.29	36.1	8.60	-35.3
4	9748.00	53.57	PK	74.00	20.43	1.00 H	114	40.97	37.2	10.20	-34.8
4	9748.00	47.05	AV	54.00	6.95	1.00 H	114	34.45	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11b–2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	109.37	PK	/	/	1.00 V	307	112.57	28.3	5.10	-36.6
1	*2437.00	98.50	AV	/	/	1.00 V	307	101.7	28.3	5.10	-36.6
2	4874.00	50.84	PK	74.00	23.16	1.00 V	215	47.44	32.3	7.60	-36.5
2	4874.00	43.27	AV	54.00	10.73	1.00 V	215	39.87	32.3	7.60	-36.5
3	7311.00	53.96	PK	74.00	20.04	1.00 V	355	44.56	36.1	8.60	-35.3
3	7311.00	47.90	AV	54.00	6.1	1.00 V	355	38.5	36.1	8.60	-35.3
4	9748.00	53.28	PK	74.00	20.72	1.00 V	110	40.68	37.2	10.20	-34.8
4	9748.00	45.34	AV	54.00	8.66	1.00 V	110	32.74	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11b--2462MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2462.00	108.73	PK	/	/	1.00 H	42	112.03	28.6	4.70	-36.6
1	*2462.00	99.47	AV	/	/	1.00 H	42	102.77	28.6	4.70	-36.6
2	4924.00	53.78	PK	74.00	20.22	1.00 H	336	49.98	33.0	7.00	-36.2
2	4924.00	47.08	AV	54.00	6.92	1.00 H	336	43.28	33.0	7.00	-36.2
3	7386.00	54.52	PK	74.00	19.48	1.00 H	257	45.12	36.2	8.50	-35.3
3	7386.00	48.07	AV	54.00	5.93	1.00 H	257	38.67	36.2	8.50	-35.3
4	9848.00	52.25	PK	74.00	21.75	1.00 H	292	39.65	37.2	10.20	-34.8
4	9848.00	45.14	AV	54.00	8.86	1.00 H	292	32.54	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11b–2462MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2462.00	109.08	PK	/	/	1.00 V	163	112.38	28.6	4.70	-36.6
1	*2462.00	98.34	AV	/	/	1.00 V	163	101.64	28.6	4.70	-36.6
2	4924.00	53.27	PK	74.00	20.73	1.00 V	160	49.47	33.0	7.00	-36.2
2	4924.00	46.24	AV	54.00	7.76	1.00 V	160	42.44	33.0	7.00	-36.2
3	7386.00	52.05	PK	74.00	21.95	1.00 V	61	42.65	36.2	8.50	-35.3
3	7386.00	44.82	AV	54.00	9.18	1.00 V	61	35.42	36.2	8.50	-35.3
4	9848.00	52.50	PK	74.00	21.5	1.00 V	232	39.9	37.2	10.20	-34.8
4	9848.00	45.31	AV	54.00	8.69	1.00 V	232	32.71	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11g--2412MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2412.00	109.06	PK	/	/	1.00 H	193	112.36	28.3	5.00	-36.6
1	*2412.00	99.79	AV	/	/	1.00 H	193	103.09	28.3	5.00	-36.6
2	4824.00	52.68	PK	74.00	21.32	1.00 H	305	48.88	32.7	7.30	-36.2
2	4824.00	45.92	AV	54.00	8.08	1.00 H	305	42.12	32.7	7.30	-36.2
3	7236.00	51.57	PK	74.00	22.43	1.00 H	62	42.17	35.8	8.90	-35.3
3	7236.00	45.12	AV	54.00	8.88	1.00 H	62	35.72	35.8	8.90	-35.3
4	9648.00	51.50	PK	74.00	22.5	1.00 H	104	38.9	37.2	10.20	-34.8
4	9648.00	43.94	AV	54.00	10.06	1.00 H	104	31.34	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11g--2412MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2412.00	112.24	PK	/	/	1.00 V	272	115.54	28.3	5.00	-36.6
1	*2412.00	102.99	AV	/	/	1.00 V	272	106.29	28.3	5.00	-36.6
2	4824.00	52.62	PK	74.00	21.38	1.00 V	153	48.82	32.7	7.30	-36.2
2	4824.00	45.04	AV	54.00	8.96	1.00 V	153	41.24	32.7	7.30	-36.2
3	7236.00	50.34	PK	74.00	23.66	1.00 V	216	40.94	35.8	8.90	-35.3
3	7236.00	43.93	AV	54.00	10.07	1.00 V	216	34.53	35.8	8.90	-35.3
4	9648.00	51.04	PK	74.00	22.96	1.00 V	145	38.44	37.2	10.20	-34.8
4	9648.00	44.70	AV	54.00	9.3	1.00 V	145	32.1	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11g--2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	110.04	PK	/	/	1.00 H	179	113.24	28.3	5.10	-36.6
1	*2437.00	99.42	AV	/	/	1.00 H	179	102.62	28.3	5.10	-36.6
2	4874.00	52.58	PK	74.00	21.42	1.00 H	50	49.18	32.8	7.10	-36.5
2	4874.00	46.33	AV	54.00	7.67	1.00 H	50	42.93	32.8	7.10	-36.5
3	7311.00	53.13	PK	74.00	20.87	1.00 H	142	43.73	36.1	8.60	-35.3
3	7311.00	45.42	AV	54.00	8.58	1.00 H	142	36.02	36.1	8.60	-35.3
4	9748.00	53.03	PK	74.00	20.97	1.00 H	212	40.43	37.2	10.20	-34.8
4	9748.00	45.61	AV	54.00	8.39	1.00 H	212	33.01	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11g--2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	110.96	PK	/	/	1.00 V	145	114.16	28.3	5.10	-36.6
1	*2437.00	100.40	AV	/	/	1.00 V	145	103.6	28.3	5.10	-36.6
2	4874.00	52.35	PK	74.00	21.65	1.00 V	163	48.95	32.8	7.10	-36.5
2	4874.00	44.85	AV	54.00	9.15	1.00 V	163	41.45	32.8	7.10	-36.5
3	7311.00	53.01	PK	74.00	20.99	1.00 V	250	43.61	36.1	8.60	-35.3
3	7311.00	46.39	AV	54.00	7.61	1.00 V	250	36.99	36.1	8.60	-35.3
4	9748.00	50.65	PK	74.00	23.35	1.00 V	231	38.05	37.2	10.20	-34.8
4	9748.00	43.79	AV	54.00	10.21	1.00 V	231	31.19	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11g--2462MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2462.00	110.87	PK	/	/	1.00 V	262	114.17	28.2	5.10	-36.6
1	*2462.00	100.95	AV	/	/	1.00 V	262	104.25	28.2	5.10	-36.6
2	4924.00	54.15	PK	74.00	19.85	1.00 V	56	50.35	33.0	7.00	-36.2
2	4924.00	46.93	AV	54.00	7.07	1.00 V	56	43.13	33.0	7.00	-36.2
3	7386.00	54.23	PK	74.00	19.77	1.00 V	342	44.83	36.2	8.50	-35.3
3	7386.00	47.89	AV	54.00	6.11	1.00 V	342	38.49	36.2	8.50	-35.3
4	9848.00	51.13	PK	74.00	22.87	1.00 V	233	38.53	37.3	10.10	-34.8
4	9848.00	43.50	AV	54.00	10.5	1.00 V	233	30.9	37.3	10.10	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11g--2462MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2462.00	107.86	PK	/	/	1.00 H	244	111.16	28.2	5.10	-36.6
1	*2462.00	97.54	AV	/	/	1.00 H	244	100.84	28.2	5.10	-36.6
2	4924.00	54.25	PK	74.00	19.75	1.00 H	272	50.45	33.0	7.00	-36.2
2	4924.00	48.21	AV	54.00	5.79	1.00 H	272	44.41	33.0	7.00	-36.2
3	7386.00	50.25	PK	74.00	23.75	1.00 H	89	40.85	36.2	8.50	-35.3
3	7386.00	42.87	AV	54.00	11.13	1.00 H	89	33.47	36.2	8.50	-35.3
4	9848.00	52.65	PK	74.00	21.35	1.00 H	34	40.05	37.3	10.10	-34.8
4	9848.00	45.70	AV	54.00	8.3	1.00 H	34	33.1	37.3	10.10	-34.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11n-20--2412MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2412.00	109.90	PK	/	/	1.00 H	308	113.2	28.3	5.00	-36.6
1	*2412.00	99.60	AV	/	/	1.00 H	308	102.9	28.3	5.00	-36.6
2	4824.00	51.90	PK	74.00	22.1	1.00 H	280	48.1	32.7	7.30	-36.2
2	4824.00	44.53	AV	54.00	9.47	1.00 H	280	40.73	32.7	7.30	-36.2
3	7236.00	51.23	PK	74.00	22.77	1.00 H	213	41.83	35.8	8.90	-35.3
3	7236.00	43.71	AV	54.00	10.29	1.00 H	213	34.31	35.8	8.90	-35.3
4	9648.00	53.88	PK	74.00	20.12	1.00 H	319	41.28	37.2	10.20	-34.8
4	9648.00	47.49	AV	54.00	6.51	1.00 H	319	34.89	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11n-20--2412MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2412.00	109.97	PK	/	/	1.00 V	69	113.27	28.3	5.00	-36.6
1	*2412.00	99.56	AV	/	/	1.00 V	69	102.86	28.3	5.00	-36.6
2	4824.00	52.09	PK	74.00	21.91	1.00 V	301	48.29	32.7	7.30	-36.2
2	4824.00	44.51	AV	54.00	9.49	1.00 V	301	40.71	32.7	7.30	-36.2
3	7236.00	51.54	PK	74.00	22.46	1.00 V	335	42.14	35.8	8.90	-35.3
3	7236.00	44.95	AV	54.00	9.05	1.00 V	335	35.55	35.8	8.90	-35.3
4	9648.00	51.54	PK	74.00	22.46	1.00 V V1.00	47	38.94	37.2	10.20	-34.8
4	9648.00	45.15	AV	54.00	8.85	1.00 V	47	32.55	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11n-20--2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	111.75	PK	/	/	1.00 H	191	114.95	28.3	5.10	-36.6
1	*2437.00	102.49	AV	/	/	1.00 H	191	105.69	28.3	5.10	-36.6
2	4874.00	52.93	PK	74.00	21.07	1.00 H	171	49.53	32.3	7.60	-36.5
2	4874.00	46.18	AV	54.00	7.82	1.00 H	171	42.78	32.3	7.60	-36.5
3	7311.00	52.23	PK	74.00	21.77	1.00 H	54	42.83	36.1	8.60	-35.3
3	7311.00	44.44	AV	54.00	9.56	1.00 H	54	35.04	36.1	8.60	-35.3
4	9748.00	51.58	PK	74.00	22.42	1.00 H	225	38.98	37.2	10.20	-34.8
4	9748.00	45.02	AV	54.00	8.98	1.00 H	225	32.42	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11n-20--2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	109.45	PK	/	/	1.00 V	31	112.65	28.3	5.10	-36.6
1	*2437.00	99.36	AV	/	/	1.00 V	31	102.56	28.3	5.10	-36.6
2	4874.00	52.01	PK	74.00	21.99	1.00 V	193	48.61	32.3	7.60	-36.5
2	4874.00	45.30	AV	54.00	8.7	1.00 V	193	41.9	32.3	7.60	-36.5
3	7311.00	54.19	PK	74.00	19.81	1.00 V	37	44.79	36.1	8.60	-35.3
3	7311.00	46.62	AV	54.00	7.38	1.00 V	37	37.22	36.1	8.60	-35.3
4	9748.00	50.61	PK	74.00	23.39	1.00 V	64	38.01	37.2	10.20	-34.8
4	9748.00	43.33	AV	54.00	10.67	1.00 V	64	30.73	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11n-20--2462MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2462.00	112.88	PK	/	/	1.00 H	356	116.18	28.2	5.10	-36.6
1	*2462.00	103.54	AV	/	/	1.00 H	356	106.84	28.2	5.10	-36.6
2	4924.00	53.16	PK	74.00	20.84	1.00 H	329	49.36	33.0	7.00	-36.2
2	4924.00	46.74	AV	54.00	7.26	1.00 H	329	42.94	33.0	7.00	-36.2
3	7386.00	50.25	PK	74.00	23.75	1.00 H	230	40.85	36.2	8.50	-35.3
3	7386.00	43.93	AV	54.00	10.07	1.00 H	230	34.53	36.2	8.50	-35.3
4	9848.00	50.78	PK	74.00	23.22	1.00 H	56	38.18	37.3	10.10	-34.8
4	9848.00	44.28	AV	54.00	9.72	1.00 H	56	31.68	37.3	10.10	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11n-20--2462MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2462.00	108.51	PK	/	/	1.00 V	212	111.81	28.2	5.10	-36.6
1	*2462.00	98.17	AV	/	/	1.00 V	212	101.47	28.2	5.10	-36.6
2	4924.00	51.57	PK	74.00	22.43	1.00 V	247	47.77	33.0	7.00	-36.2
2	4924.00	45.45	AV	54.00	8.55	1.00 V	247	41.65	33.0	7.00	-36.2
3	7386.00	52.03	PK	74.00	21.97	1.00 V	121	42.63	36.2	8.50	-35.3
3	7386.00	45.57	AV	54.00	8.43	1.00 V	121	36.17	36.2	8.50	-35.3
4	9848.00	52.33	PK	74.00	21.67	1.00 V	162	39.73	37.3	10.10	-34.8
4	9848.00	44.58	AV	54.00	9.42	1.00 V	162	31.98	37.3	10.10	-34.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11n-40--2422MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2422.00	112.52	PK	/	/	1.00 H	163	115.82	28.3	5.00	-36.6
1	*2422.00	101.65	AV	/	/	1.00 H	163	104.95	28.3	5.00	-36.6
2	4844.00	54.96	PK	74.00	19.04	1.00 H	357	51.16	32.7	7.30	-36.2
2	4844.00	48.08	AV	54.00	5.92	1.00 H	357	44.28	32.7	7.30	-36.2
3	7266.00	54.63	PK	74.00	19.37	1.00 H	301	45.23	35.8	8.90	-35.3
3	7266.00	48.29	AV	54.00	5.71	1.00 H	301	38.89	35.8	8.90	-35.3
4	9688.00	52.62	PK	74.00	21.38	1.00 H	213	40.02	37.2	10.20	-34.8
4	9688.00	46.16	AV	54.00	7.84	1.00 H	213	33.56	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11n-40--2422MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2422.00	107.16	PK	/	/	1.00 V	121	110.46	28.3	5.00	-36.6
1	*2422.00	97.55	AV	/	/	1.00 V	121	100.85	28.3	5.00	-36.6
2	4844.00	51.60	PK	74.00	22.4	1.00 V	230	47.8	32.7	7.30	-36.2
2	4844.00	43.93	AV	54.00	10.07	1.00 V	230	40.13	32.7	7.30	-36.2
3	7266.00	50.45	PK	74.00	23.55	1.00 V	254	41.05	35.8	8.90	-35.3
3	7266.00	44.07	AV	54.00	9.93	1.00 V	254	34.67	35.8	8.90	-35.3
4	9688.00	51.30	PK	74.00	22.7	1.00 V	45	38.7	37.2	10.20	-34.8
4	9688.00	44.01	AV	54.00	9.99	1.00 V	45	31.41	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11n-40--2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	112.73	PK	/	/	1.00 H	314	115.93	28.3	5.10	-36.6
1	*2437.00	102.54	AV	/	/	1.00 H	314	105.74	28.3	5.10	-36.6
2	4874.00	52.94	PK	74.00	21.06	1.00 H	175	49.54	32.3	7.60	-36.5
2	4874.00	45.76	AV	54.00	8.24	1.00 H	175	42.36	32.3	7.60	-36.5
3	7311.00	52.77	PK	74.00	21.23	1.00 H	120	43.37	36.1	8.60	-35.3
3	7311.00	45.90	AV	54.00	8.1	1.00 H	120	36.5	36.1	8.60	-35.3
4	9748.00	54.61	PK	74.00	19.39	1.00 H	89	42.01	37.2	10.20	-34.8
4	9748.00	48.32	AV	54.00	5.68	1.00 H	89	35.72	37.2	10.20	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11n-40--2437MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2437.00	108.29	PK	/	/	1.00 V	338	111.49	28.3	5.10	-36.6
1	*2437.00	98.01	AV	/	/	1.00 V	338	101.21	28.3	5.10	-36.6
2	4874.00	54.56	PK	74.00	19.44	1.00 V	252	51.16	32.3	7.60	-36.5
2	4874.00	47.36	AV	54.00	6.64	1.00 V	252	43.96	32.3	7.60	-36.5
3	7311.00	54.47	PK	74.00	19.53	1.00 V	352	45.07	36.1	8.60	-35.3
3	7311.00	47.58	AV	54.00	6.42	1.00 V	352	38.18	36.1	8.60	-35.3
4	9748.00	54.64	PK	74.00	19.36	1.00 V	222	42.04	37.2	10.20	-34.8
4	9748.00	47.91	AV	54.00	6.09	1.00 V	222	35.31	37.2	10.20	-34.8

Result : PASS

All Emission and Emissions Fall into Restricted Band were recorded as below:

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M（802.11n-40--2452MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2452.00	107.58	PK	/	/	1.00 H	249	110.78	28.2	5.20	-36.6
1	*2452.00	96.68	AV	/	/	1.00 H	249	99.88	28.2	5.20	-36.6
2	4904.00	54.05	PK	74.00	19.95	1.00 H	323	50.25	33.0	7.00	-36.2
2	4904.00	47.81	AV	54.00	6.19	1.00 H	323	44.01	33.0	7.00	-36.2
3	7356.00	53.42	PK	74.00	20.58	1.00 H	149	44.02	36.2	8.50	-35.3
3	7356.00	46.31	AV	54.00	7.69	1.00 H	149	36.91	36.2	8.50	-35.3
4	9808.00	54.78	PK	74.00	19.22	1.00 H	179	42.18	37.3	10.10	-34.8
4	9808.00	48.59	AV	54.00	5.41	1.00 H	179	35.99	37.3	10.10	-34.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M（802.11n-40--2452MHz）											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2452.00	109.04	PK	/	/	1.00 V	148	112.24	28.2	5.20	-36.6
1	*2452.00	99.86	AV	/	/	1.00 V	148	103.06	28.2	5.20	-36.6
2	4904.00	50.57	PK	74.00	23.43	1.00 V	78	46.77	33.0	7.00	-36.2
2	4904.00	43.03	AV	54.00	10.97	1.00 V	78	39.23	33.0	7.00	-36.2
3	7356.00	54.72	PK	74.00	19.28	1.00 V	245	45.32	36.2	8.50	-35.3
3	7356.00	47.29	AV	54.00	6.71	1.00 V	245	37.89	36.2	8.50	-35.3
4	9808.00	51.45	PK	74.00	22.55	1.00 V	91	38.85	37.3	10.10	-34.8
4	9808.00	45.36	AV	54.00	8.64	1.00 V	91	32.76	37.3	10.10	-34.8

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Antenna Factor (dB/m) + Cable Factor (dB) + Factor (dB) + Pre-amplifier Factor
2. The other emission levels were very low against the limit.
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission level
5. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

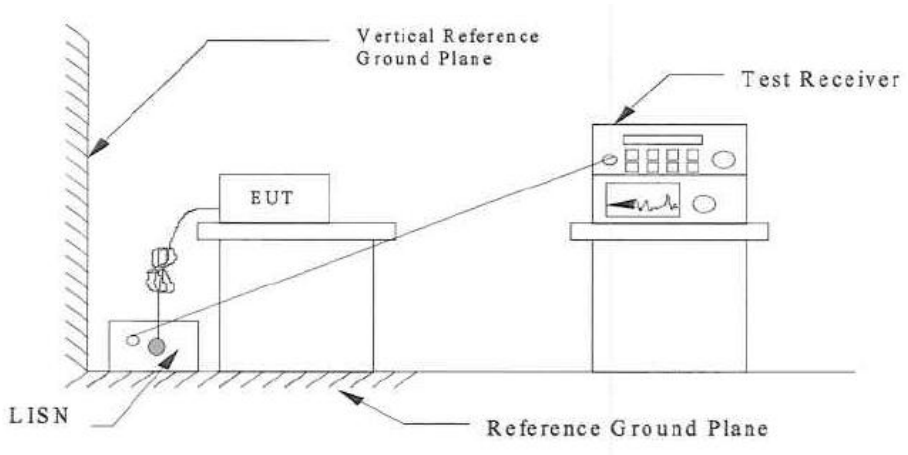
.

4.6 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC part 15 Section 15.207 Class B
Test Method:	ANSI C63.4:2003
Test Date:	2013-08-01
Mode of Operation:	Transmitting continuously mode
Detector Function:	CISPR Quasi Peak
Measurement BW:	100 kHz
Worst Case Channel:	Highest Channel

Results : PASS

Test Setup:



Limits for Conducted Emission [Section 15.207]:

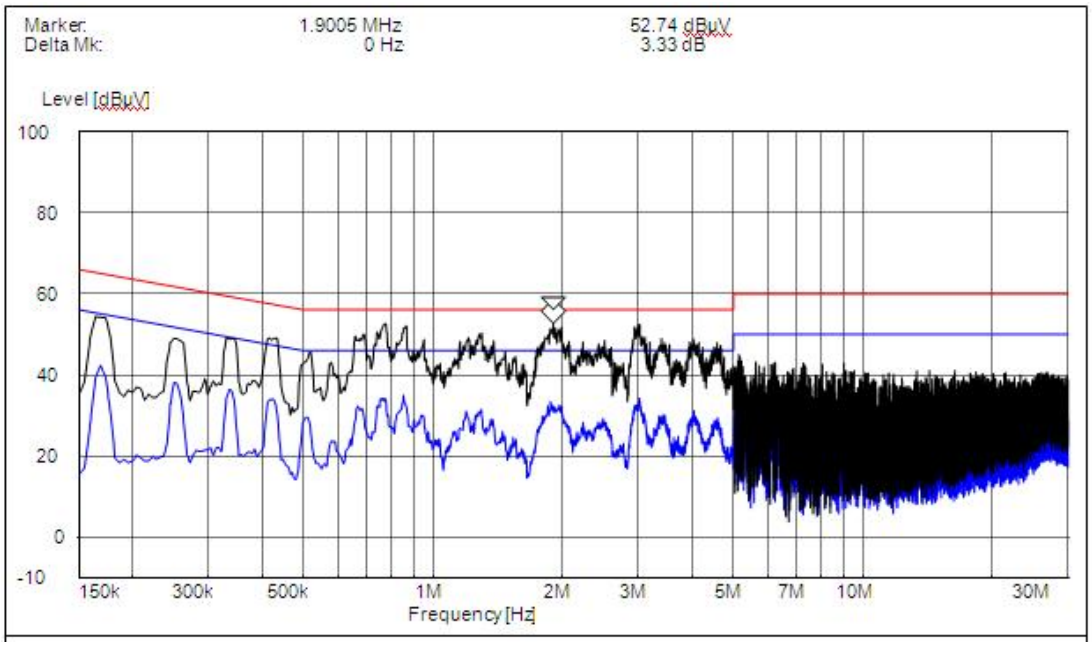
Frequency Range [MHz]	Quasi-Peak Limit [dBμV]	Average Limit [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Remarks:
Calculated measurement uncertainty: ±1.54dB

Result data graph shows the conducted emission (Line and Neutral).

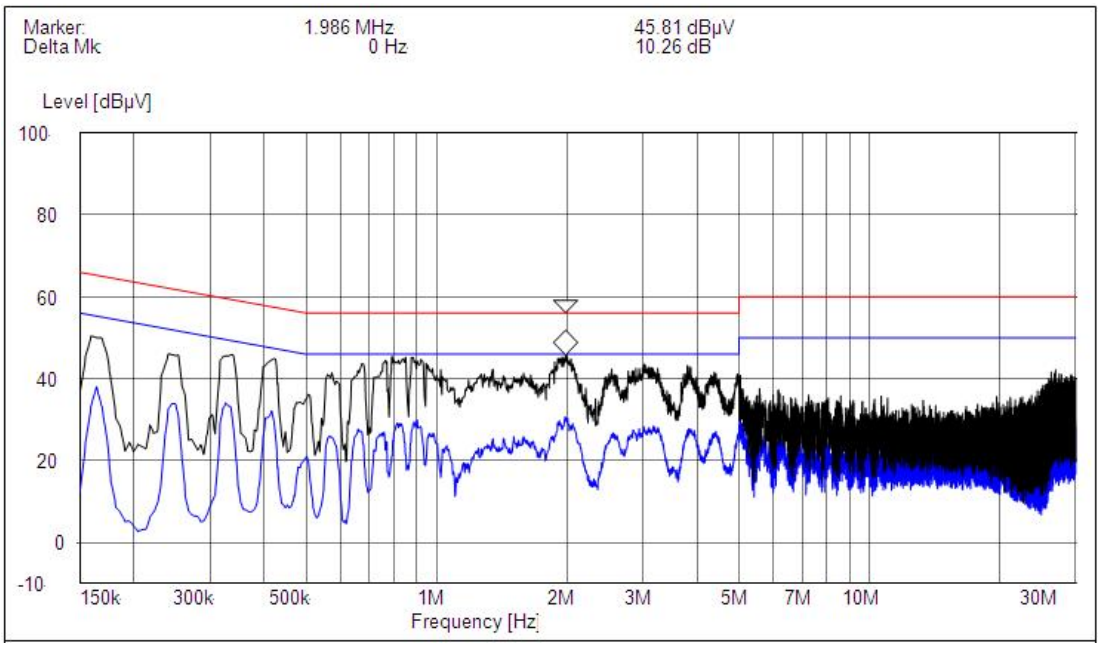
Phase L



2013-8-1 18:37

Frequency MHz	Level dBµV	Limit-QP dBµV	Level dBµV	Limit-AV dBµV
0.429000	47.80	57.30	32.20	47.30
0.775500	46.50	56.00	34.20	46.00
1.900500	46.80	56.00	34.90	46.00
3.025500	46.80	56.00	34.60	46.00

Phase N



2013-8-1 18:42

Frequency MHz	Level dBµV	Limit-QP dBµV	Level dBµV	Limit-AV dBµV
0.420000	42.20	57.40	29.70	47.40
0.789000	42.10	56.00	31.40	46.00
1.986000	41.70	56.00	30.20	46.00

5.0 List of Measurement Equipment

Radiated Emission

Manufacturer	Equipment	Model No.	Serial No.	Due Date
R&S	Power Meter	NRVS	1020.1809.02	07 Jun 2014
R&S	Power Sensor	NRV-Z4	823.3618.03	07 Jun 2014
R&S	Spectrum Analyzer	FSP40	1164.4391.40	10 Jun 2014
R&S	Receiver	ESIB26	A0304218	07 Jun 2014
Albatross	Full-Anechoic Chamber	12.8m*6.4m	A0412372	07 Jun 2014
R&S	Double ridge horn antenna	HF906	100150	10 Jun 2014
R&S	Amplifier 1G-18GHz	MITEQ AFS42-00101800	25-S-42	05 Jun 2014
R&S	Receiver	ESIB26	A0304218	07 Jun 2014
Albatross	Full-Anechoic Chamber	12.8m*6.8m*6.4m	A0412372	07 Jun 2014
Schwarzbeck	Test Antenna – Bi-Log	VULB 9163	9163-274	09 Jun 2014
R&S	Amplifier 1G-18GHz	MITEQ AFS42-00101800	25-S-42	05 Jun 2014
R&S	Amplifier 18G-40GHz	JS42-18002600-28-5A	12111.0980.00	05 Jun 2014
R&S	Amplifier 20M-3GHz	PAP-0203H	22018	10 Jun 2014

Line Conducted

Manufacturer	Equipment	Model No.	Serial No.	Due Date
ROHDE & SCHWARZ	Test Receiver	ESCS30	A0304260	10 Jun 2014
ROHDE & SCHWARZ	LISN	ESHS2-Z5	A0304221	10 Jun 2014

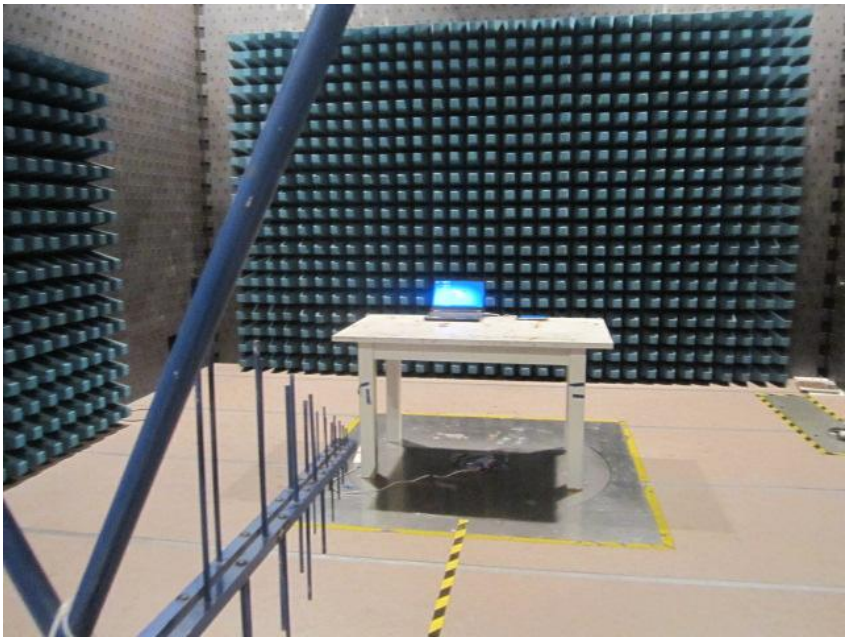
N/A Not Applicable or Not Available

Appendix A

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of Test Setup:

Radiated Emissions



TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Phase 2, 10 Science Park West Avenue, Shatin, Hong Kong

Appendix A

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of Test Setup:

Conducted Emissions

Appendix B

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of EUT – External EUT Photos

TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Phase 2, 10 Science Park West Avenue, Shatin, Hong Kong

Appendix B

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of EUT – External EUT Photos

Appendix B

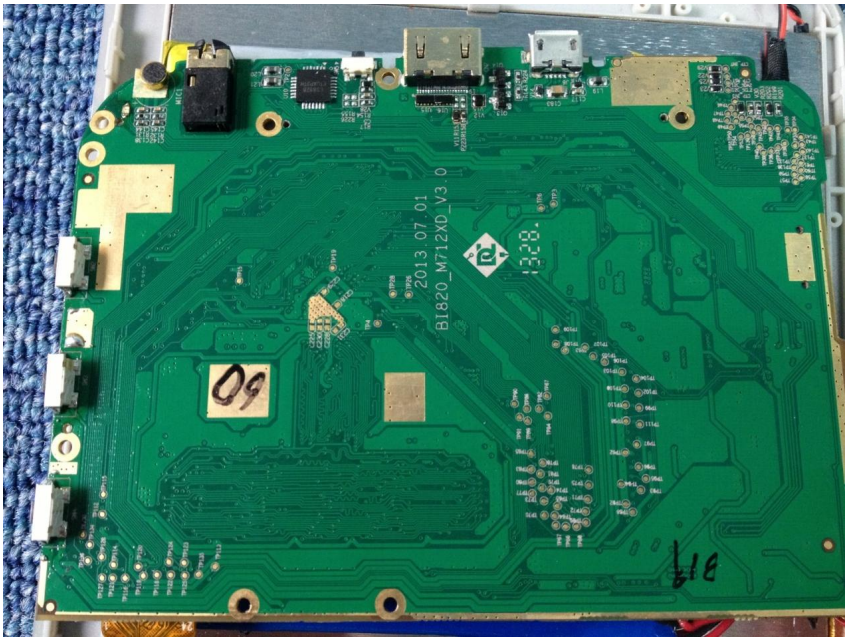
Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of EUT – External EUT Photos

Appendix C

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of EUT – Internal EUT Photos

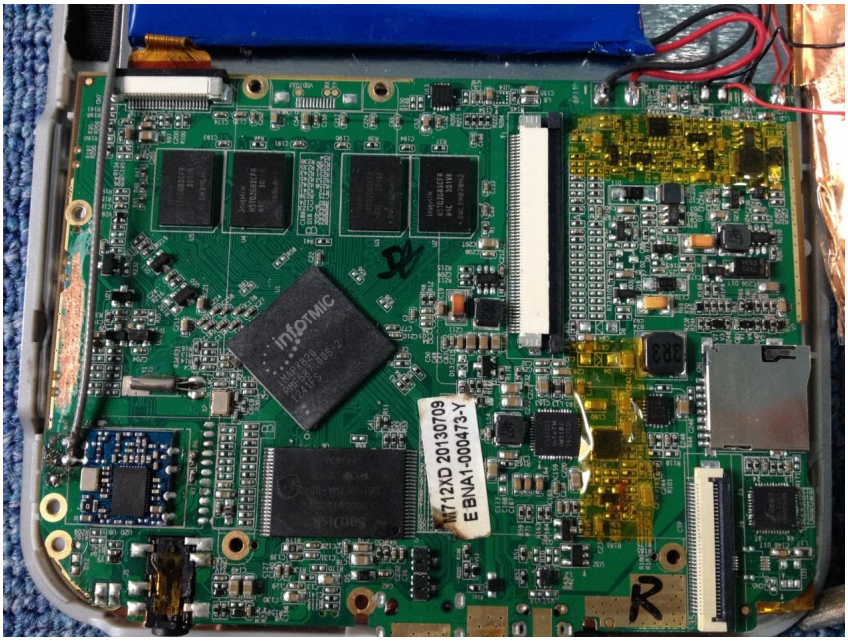


TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Phase 2, 10 Science Park West Avenue, Shatin, Hong Kong

Appendix C

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

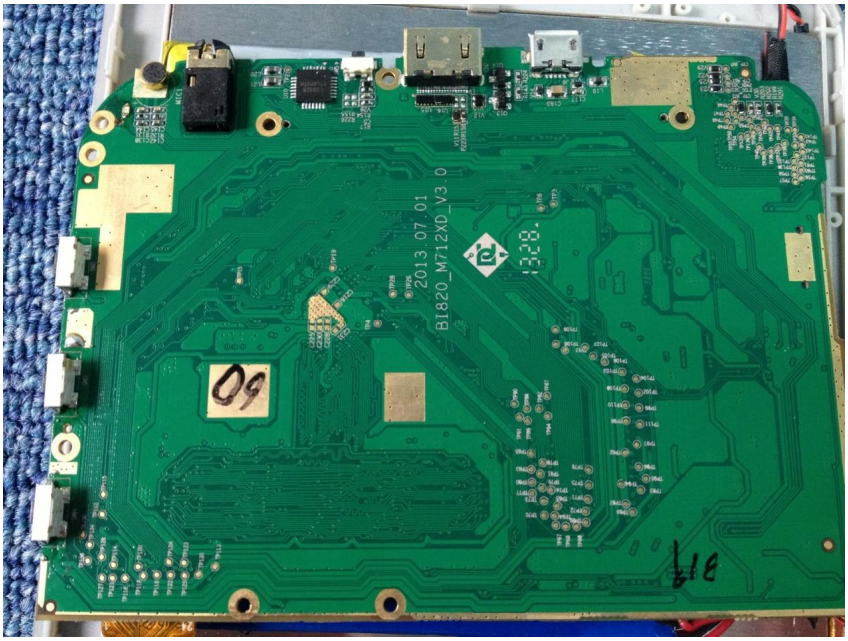
Photo of EUT – Internal EUT Photos



Appendix C

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of EUT – Internal EUT Photos



TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Phase 2, 10 Science Park West Avenue, Shatin, Hong Kong

Appendix C

Date: 2013-09-09
Report No.: 60.870.13.030.01F
Model No.: PI070H04AA

Photo of EUT – Internal EUT Photos