

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : W153R-D022
AGR No. : A152A-137
Applicant : BLUEBIRD INC.
Address : (Dogok-dong, SEI Tower13,14)39, Eonjuro30-gil, Gangnam-gu, Seoul, South Korea
Manufacturer : BLUEBIRD INC.
Address : (Dogok-dong, SEI Tower13,14)39, Eonjuro30-gil, Gangnam-gu, Seoul, South Korea
Type of Equipment : Premium Enterprise Tablet
FCC ID. : SS4ET100
Model Name : ET100
Serial number : N/A
Total page of Report : 123 pages (including this page)
Date of Incoming : February 12, 2015
Date of issue : March 30, 2015

SUMMARY

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.247*

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by: 
Jae-Ho, Lee / Chief Engineer
ONETECH Corp.

Approved by: 
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ONETECH Corp.

CONTENTS

PAGE

1. VERIFICATION OF COMPLIANCE	5
2. TEST SUMMARY	6
2.1 TEST ITEMS AND RESULTS	6
2.2 ADDITIONS, DEVIATIONS, EXCLUSIONS FROM STANDARDS	6
2.3 RELATED SUBMITTAL(S) / GRANT(S)	6
2.4 PURPOSE OF THE TEST	6
2.5 TEST METHODOLOGY	6
2.6 TEST FACILITY	6
3. GENERAL INFORMATION	7
3.1 PRODUCT DESCRIPTION	7
3.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT	7
4. EUT MODIFICATIONS	7
5. SYSTEM TEST CONFIGURATION	8
5.1 JUSTIFICATION	8
5.2 PERIPHERAL EQUIPMENT	8
5.3 MODE OF OPERATION DURING THE TEST	9
5.4 CONFIGURATION OF TEST SYSTEM	11
6. PRELIMINARY TEST	12
6.1 AC POWER LINE CONDUCTED EMISSIONS TESTS	12
6.2 GENERAL RADIATED EMISSIONS TESTS	12
7. 100 KHZ BANDWIDTH OUTSIDE THE FREQUENCY BAND	13
7.1 OPERATING ENVIRONMENT	13
7.2 TEST SET-UP FOR CONDUCTED MEASUREMENT	13
7.3 TEST SET-UP FOR RADIATED MEASUREMENT	13
7.4 TEST EQUIPMENT USED	오류! 책갈피가 정의되어 있지 않습니다.
7.5 TEST DATA FOR RADIATED EMISSION	14
7.5.1 Radiated Emission which fall in the Restricted Band	14
7.5.2 Spurious & Harmonic Radiated Emission	36
8. RADIATED EMISSION TEST	74
8.1 OPERATING ENVIRONMENT	74
8.2 TEST SET-UP	74
8.3 TEST EQUIPMENT USED	74
8.4 TEST DATA FOR 802.11B WLAN MODE	75
8.5 TEST DATA FOR 802.11A WLAN MODE	83

8.6 TEST DATA FOR BLUETOOTH LE MODE.....	91
9. CONDUCTED EMISSION TEST.....	99
9.1 OPERATING ENVIRONMENT	99
9.2 TEST SET-UP	99
9.3 TEST EQUIPMENT USED.....	99
9.4 TEST DATA FOR 802.11B WLAN MODE.....	100
9.5 TEST DATA FOR 802.11A WLAN MODE.....	108
9.6 TEST DATA FOR BLUETOOTH LE MODE	116

Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
W153R-D022	March 30, 2015	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

- . APPLICANT : BLUEBIRD INC.
- . ADDRESS : (Dogok-dong, SEI Tower 13,14) 39, Eonjuro30-gil, Gangnam-gu, Seoul, South Korea
- . CONTACT PERSON : Jaeho, Lee / Research Engineer
- . TELEPHONE NO : +82-70-7730-8210
- . FCC ID : SS4ET100
- . MODEL NO/NAME : ET100
- . SERIAL NUMBER : N/A
- . DATE : March 30, 2015

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Premium Enterprise Tablet
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production, Modular Approval
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

- . The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2009. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The open area test site is located at 307-51 Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do and 10 m Semi Anechoic Chamber (SAC) and conducted measurement facilities are located at 301-14, Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do, 464-862, Korea. The Onetech Corp. has been accredited as a Conformity Assessment Body (CAB) with designation number KR0013 under APEC TEL MAR between the RRA and the FCC.

3. GENERAL INFORMATION

3.1 Product Description

The BLUEBIRD INC. Model ET100 (referred to as the EUT in this report) is a Premium Enterprise Tablet. Product specification information described herein was obtained from product data sheet or user’s manual.

DEVICE TYPE	Premium Enterprise Tablet	
LIST OF EACH OSC. or CRY. FREQ.(FREQ. >= 1 MHz)	27.12 MHz, 26 M, 25 MHz , 12 MHz, 8 MHz	
EMISSION DESIGNATOR	WLAN(2.4 GHz band) : 802.11b/g/n(HT20)/n(HT40) WLAN(5 GHz band) : 802.11a/n(HT20)/ac(VHT20)/n(HT40)/ ac(VHT40)/ac(VHT80) BT : LE	
OPERATING FREQUENCY	WLAN (2.4 GHz band)	802.11b/g/n(HT20) : 2 412 MHz ~ 2 472 MHz
		802.11n(HT40) : 2 422 MHz ~ 2 462 MHz
	WLAN (5 GHz band)	802.11a/n(HT20)/ac(VHT20) : 5 745 MHz ~ 5 825 MHz
		802.11n(HT40)/ac(VHT40) : 5 755 MHz ~ 5 795 MHz
		802.11ac(VHT80) : 5 775 MHz
BT	LE : 2 402 MHz ~ 2 480 MHz	
ANTENNA TYPE	WWAN, WLAN : PiFA BT : Chip antenna NFC : PCB antenna	
USED AC/DC ADAPTER	Output: DC 12 V, 4.17 A Model No: KPL-050F Manufacturer: Ningbo ISO Electronic Co., Ltd.	
EXTERNAL CONNECTOR	DC IN, Micro SD slot, USIM slot, USB port, AUX port	

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Mother board	N/A	PCB-BP80S-MAIN-REV.0.2	N/A
LCD panel	Innolux Display	EJ101IA-01G	N/A
Card slot board	N/A	FPCB-BP80S-SD-SIMSAM-REV.0.1	N/A
Flash LED board	N/A	PCB-BP80S-FLASH-LED-REV.0.1	N/A
Battery	XIAMEN POWERLONG INDUSTRY JOINT-STOCK CO., LTD.	PL8046135/3.7V	N/A
Light sensor board	N/A	LIGHT-SENSOR-REV.0.1	N/A
Camera module	N/A	HU106-B	N/A
SSD	N/A	MS-0460SSN	N/A
Touch sensor board	N/A	BP80_REV05	N/A
GPS antenna	N/A	PE8G4006GB1_Rev1.0	N/A
Value sub board	N/A	PCB-BP80S-VALUE-SUB-REV01	N/A
Wireless module	CINTERION	PHS8-P	QIPPHS8-P
WLAN module	INTEL	7265NGW	PD97265NG
WWAN antenna	DONGNAM	BP80S (MAIN)	N/A
WLAN antenna	DONGNAM	BP80S (WiFi)	N/A
NFC antenna	N/A	N/A	N/A
Adaptor	Ningbo Electronic Co., Ltd.	KPL-050F	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
ET100	Bluebird Inc.	Premium Enterprise Tablet (EUT)	Adaptor
KPL-050F	Ningbo Electronic Co., Ltd.	Adaptor	EUT

5.3 Mode of operation during the test

- For the testing, software used to control the EUT for staying in continuous transmitting mode is programmed.
- Test should proceed in the worst of conditions.

Maximum Output Power

WLAN(2.4 GHz band)

Modulation	Frequency	OUTPUT POWER(dBm)	
		Ant 0	Ant 1
802.11 b	Low frequency	16.12	16.33
	Middle frequency	17.21	17.31
	High frequency	16.55	16.20
802.11g	Low frequency	13.91	14.37
	Middle frequency	17.19	17.60
	High frequency	12.13	12.64
802.11n(HT 20)	Low frequency	13.76	14.65
	Middle frequency	17.18	17.84
	High frequency	12.15	12.18
802.11n(HT 40)	Low frequency	13.27	13.54
	Middle frequency	17.25	17.34
	High frequency	12.29	11.28
Modulation	Frequency	OUTPUT POWER (dBm)	
802.11n(HT 20) (MIMO)	Low frequency	14.84	
	Middle frequency	20.18	
	High frequency	14.99	
802.11n(HT 40) (MIMO)	Low frequency	12.54	
	Middle frequency	16.50	
	High frequency	12.38	

WLAN(5 GHz band)

Modulation	Frequency	OUTPUT POWER(dBm)	
		Ant 0	Ant 1
802.11a	Low frequency	15.27	15.02
	Middle frequency	15.67	14.70
	High frequency	15.42	15.35
802.11n(HT20)	Low frequency	15.49	15.13
	Middle frequency	15.26	14.88
	High frequency	15.36	14.89
802.11n(HT40)	Low frequency	16.29	16.21
	High frequency	16.29	16.15
802.11ac(VHT80)	Low frequency	16.42	16.63
Modulation	Frequency	OUTPUT POWER (dBm)	
802.11n(HT20) (MIMO)	Low frequency	16.35	
	Middle frequency	16.20	
	High frequency	16.56	
802.11n(HT40) (MIMO)	Low frequency	19.52	
	High frequency	19.46	
802.11n(VHT80) (MIMO)	Low frequency	19.54	

Bluetooth

Modulation	Frequency	OUTPUT POWER(dBm)
LE	Low frequency	3.29
	Middle frequency	3.51
	High frequency	3.44

-2.4 GHz Band(WLAN)

The worse case data rate for each modulation is determined Middle channel for all conditions.

5.4 Configuration of Test System

Line Conducted Test: The EUT was connected to USB and the power of USB was connected to Notebook PC. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2009 7.3.3 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter open area test site. The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to 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.

Antenna Construction:

The transmitter antenna of the EUT is a PIFA antenna, so no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X
Receiving Mode	-

6.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X
Receiving Mode	-

7. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

7.1 Operating environment

Temperature : 20 °C
Relative humidity : 45 % R.H.

7.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



7.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m, open-field test site. The EUT was placed on a non-conductive turntable above the ground plane.

The frequency spectrum from 30 MHz to 40 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

7.4 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
□ -	ESCI	Rohde & Schwarz	EMI Test Receiver	101012	Nov. 03, 2014(1Y)
■ -	ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 29, 2014(1Y)
□ -	8564E	HP	Spectrum Analyzer	3650A00756	Apr. 28, 2014(1Y)
□ -	FSP	Rohde & Schwarz	Spectrum Analyzer	100017	Oct. 08, 2014(1Y)
■ -	310N	Sonoma Instrument	AMPLIFIER	312544	Apr. 28, 2014(1Y)
■ -	FSV30	Rohde & Schwarz	Signal Analyzer	101372	Apr. 28, 2014(1Y)
■ -	SCU-18	Rohde & Schwarz	PRE-AMPLIFIER	102209	Jun. 12, 2014(1Y)
■ -	MA240	HD GmbH	Antenna Master	N/A	N/A
■ -	HD100	HD GmbH	Position Controller	N/A	N/A
■ -	DS420S	HD GmbH	Turn Table	N/A	N/A
■ -	HFH2-Z2	Rohde & Schwarz	Loop Antenna	879 285/26	Dec. 09, 2014(2Y)
■ -	VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-255	May 02, 2014(2Y)
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Sep. 05, 2013(2Y)
■ -	BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	N/A
■ -	83051A	Agilent	Microwave System Preamplifier	3950M00201	Apr. 30, 2014(1Y)

All test equipment used is calibrated on a regular basis.

7.5 Test data for radiated emission

7.5.1 Radiated Emission which fall in the Restricted Band

7.5.1.1 Test data for 802.11b WLAN Mode

7.5.1.1.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

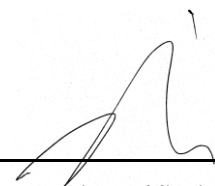
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 387.54	61.13	Peak	H	27.10	7.50	43.00	52.63	74.00	21.37
	48.22	Average	H				39.72	54.00	14.28
2 387.45	57.74	Peak	V				49.24	74.00	24.76
	45.15	Average	V				36.65	54.00	17.35
Test Data for High Channel									
2 499.71	60.6	Peak	H	27.40	7.70	43.00	52.7	74.00	21.30
	46.98	Average	H				39.08	54.00	14.92
2 499.71	57.24	Peak	V				49.34	74.00	24.66
	44.77	Average	V				36.87	54.00	17.13

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.1.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

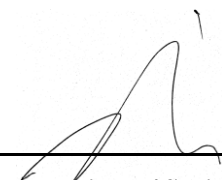
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 386.01	58.73	Peak	H	27.10	7.50	43.00	50.23	74.00	23.77
	47.34	Average	H				38.84	54.00	15.16
2 386.01	56.80	Peak	V				48.30	74.00	25.70
	44.62	Average	V				36.12	54.00	17.88
Test Data for High Channel									
2 483.67	59.26	Peak	H	27.40	7.70	43.00	51.36	74.00	22.64
	45.91	Average	H				38.01	54.00	15.99
2 483.67	56.60	Peak	V				48.70	74.00	25.30
	43.50	Average	V				35.60	54.00	18.40

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.2 Test data for 802.11g WLAN Mode

7.5.1.2.1 Test data for Antenna 0

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Result : PASSED


Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2389.95	67.62	Peak	H	27.00	7.50	43.00	59.12	74.00	14.88
	56.15	Average	H				47.65	54.00	6.35
2389.95	63.07	Peak	V				54.57	74.00	19.43
	51.31	Average	V				42.81	54.00	11.19
Test Data for High Channel									
2483.54	61.31	Peak	H	27.40	7.70	43.00	53.41	74.00	20.59
	47.55	Average	H				39.65	54.00	14.35
2483.54	58.25	Peak	V				50.35	74.00	23.65
	44.74	Average	V				36.84	54.00	17.16

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.2.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

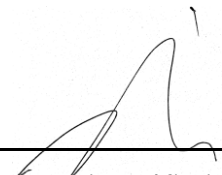
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.91	68.48	Peak	H	27.00	7.50	43.00	59.98	74.00	14.02
	54.01	Average	H				45.51	54.00	8.49
2 389.91	62.60	Peak	V				54.10	74.00	19.90
	50.17	Average	V				41.67	54.00	12.33
Test Data for High Channel									
2 483.59	60.47	Peak	H	27.40	7.70	43.00	52.57	74.00	21.43
	47.47	Average	H				39.57	54.00	14.43
2 483.59	57.27	Peak	V				49.37	74.00	24.63
	44.72	Average	V				36.82	54.00	17.18

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.3 Test data for 802.11n_HT20 WLAN Mode

7.5.1.3.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED


Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.85	70.83	Peak	H	27.00	7.50	43.00	62.33	74.00	11.67
	57.75	Average	H				49.25	54.00	4.75
2 389.85	65.44	Peak	V				56.94	74.00	17.06
	53.58	Average	V				45.08	54.00	8.92
Test Data for High Channel									
2 483.62	64.93	Peak	H	27.40	7.70	43.00	57.03	74.00	16.97
	49.80	Average	H				41.90	54.00	12.10
2 483.62	62.77	Peak	V				54.87	74.00	19.13
	46.37	Average	V				38.47	54.00	15.53

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.3.2 Test data for Antenna 1

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Result : PASSED

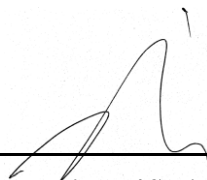
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.97	69.52	Peak	H	27.00	7.50	43.00	61.02	74.00	12.98
	56.15	Average	H				47.65	54.00	6.35
2 389.97	65.28	Peak	V				56.78	74.00	17.22
	52.77	Average	V				44.27	54.00	9.73
Test Data for High Channel									
2 483.56	64.60	Peak	H	27.40	7.70	43.00	56.70	74.00	17.30
	50.99	Average	H				43.09	54.00	10.91
2 483.56	61.25	Peak	V				53.35	74.00	20.65
	48.12	Average	V				40.22	54.00	13.78

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.3.3 Test data for Multiple transmit

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Result : PASSED

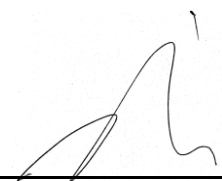
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.93	74.07	Peak	H	27.00	7.50	43.00	65.57	74.00	8.43
	59.37	Average	H				50.87	54.00	3.13
2 389.93	66.98	Peak	V				58.48	74.00	15.52
	56.19	Average	V				47.69	54.00	6.31
Test Data for High Channel									
2 483.53	72.26	Peak	H	27.40	7.70	43.00	64.36	74.00	9.64
	57.68	Average	H				49.78	54.00	4.22
2 483.53	65.86	Peak	V				57.96	74.00	16.04
	55.08	Average	V				47.18	54.00	6.82

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.4 Test data for 802.11n_HT40 WLAN Mode

7.5.1.4.1 Test data for Antenna 0

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Result : PASSED


Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.97	68.55	Peak	H	27.00	7.50	43.00	60.05	74.00	13.95
	57.81	Average	H				49.31	54.00	4.69
2 389.97	65.05	Peak	V				56.55	74.00	17.45
	54.28	Average	V				45.78	54.00	8.22
Test Data for High Channel									
2 483.57	67.28	Peak	H	27.40	7.70	43.00	59.38	74.00	14.62
	52.26	Average	H				44.36	54.00	9.64
2 483.57	62.44	Peak	V				54.54	74.00	19.46
	51.08	Average	V				43.18	54.00	10.82

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.4.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

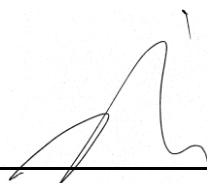
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.93	72.27	Peak	H	27.00	7.50	43.00	63.77	74.00	10.23
	61.34	Average	H				52.84	54.00	1.16
2 389.93	68.59	Peak	V				60.09	74.00	13.91
	58.62	Average	V				50.12	54.00	3.88
Test Data for High Channel									
2 483.59	67.17	Peak	H	27.40	7.70	43.00	59.27	74.00	14.73
	54.00	Average	H				46.10	54.00	7.90
2 483.59	62.10	Peak	V				54.20	74.00	19.80
	50.88	Average	V				42.98	54.00	11.02

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.4.3 Test data for Multiple transmit

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Result : PASSED

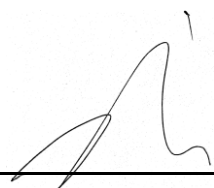
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.77	71.09	Peak	H	27.00	7.50	43.00	62.59	74.00	11.41
	59.28	Average	H				50.78	54.00	3.22
2 389.77	66.14	Peak	V				57.64	74.00	16.36
	54.83	Average	V				46.33	54.00	7.67
Test Data for High Channel									
2 483.55	67.90	Peak	H	27.40	7.70	43.00	60.00	74.00	14.00
	54.61	Average	H				46.71	54.00	7.29
2 483.55	63.71	Peak	V				55.81	74.00	18.19
	50.86	Average	V				42.96	54.00	11.04

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.5 Test data for 802.11a RLAN Mode

7.5.1.5.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

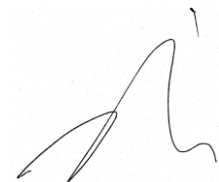
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.35	Peak	H	31.9	12.1	42.2	45.15	74.00	28.85
	35.45	Average	H				37.25	54.00	16.75
5 725.00	43.88	Peak	V				45.68	74.00	28.32
	35.63	Average	V				37.43	54.00	16.57
Test Data for High Channel									
5 850.00	43.34	Peak	H	32.1	12.2	42.2	45.44	74.00	28.56
	35.55	Average	H				37.65	54.00	16.35
5 850.00	43.63	Peak	V				45.73	74.00	28.27
	35.72	Average	V				37.82	54.00	16.18

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.5.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

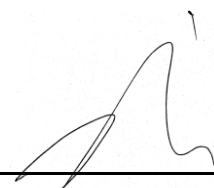
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.32	Peak	H	31.9	12.1	42.2	45.12	74.00	28.88
	35.48	Average	H				37.28	54.00	16.72
5 725.00	43.77	Peak	V				45.57	74.00	28.43
	35.84	Average	V				37.64	54.00	16.36
Test Data for High Channel									
5 850.00	43.88	Peak	H	32.1	12.2	42.2	45.98	74.00	28.02
	35.36	Average	H				37.46	54.00	16.54
5 850.00	43.17	Peak	V				45.27	74.00	28.73
	35.29	Average	V				37.39	54.00	16.61

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.6 Test data for 802.11n_HT20 RLAN Mode

7.5.1.6.1 Test data for Antenna 0

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 40 GHz
- . Measurement distance : 3 m
- . Result : PASSED


Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.99	Peak	H	31.9	12.1	42.2	45.79	74.00	28.21
	36.18	Average	H				37.98	54.00	16.02
5 725.00	44.01	Peak	V				45.81	74.00	28.19
	35.85	Average	V				37.65	54.00	16.35
Test Data for High Channel									
5 850.00	43.53	Peak	H	32.1	12.2	42.2	45.63	74.00	28.37
	35.21	Average	H				37.31	54.00	16.69
5 850.00	43.66	Peak	V				45.76	74.00	28.24
	35.40	Average	V				37.50	54.00	16.50

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.6.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

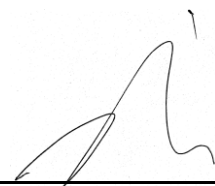
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.58	Peak	H	31.9	12.1	42.2	45.38	74.00	28.62
	35.63	Average	H				37.43	54.00	16.57
5 725.00	43.77	Peak	V				45.57	74.00	28.43
	35.65	Average	V				37.45	54.00	16.55
Test Data for High Channel									
5 850.00	43.64	Peak	H	32.1	12.2	42.2	45.74	74.00	28.26
	35.15	Average	H				37.25	54.00	16.75
5 850.00	43.82	Peak	V				45.92	74.00	28.08
	35.93	Average	V				38.03	54.00	15.97

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.6.3 Test data for Multiple transmit

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

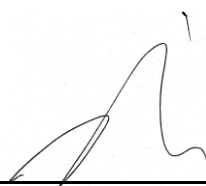
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.55	Peak	H	31.9	12.1	42.2	45.35	74.00	28.65
	35.76	Average	H				37.56	54.00	16.44
5 725.00	43.48	Peak	V				45.28	74.00	28.72
	36.20	Average	V				38.00	54.00	16.00
Test Data for High Channel									
5 850.00	43.35	Peak	H	32.1	12.2	42.2	45.45	74.00	28.55
	35.59	Average	H				37.69	54.00	16.31
5 850.00	43.90	Peak	V				46.00	74.00	28.00
	35.82	Average	V				37.92	54.00	16.08

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.7 Test data for 802.11n_HT40 RLAN Mode

7.5.1.7.1 Test data for Antenna 0

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 40 GHz
- . Measurement distance : 3 m
- . Result : PASSED

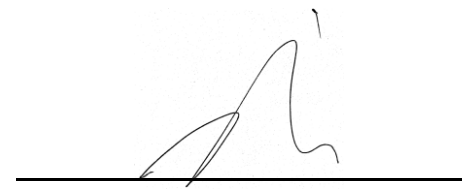
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	44.04	Peak	H	31.9	12.1	42.2	45.84	74.00	28.16
	36.18	Average	H				37.98	54.00	16.02
5 725.00	43.46	Peak	V				45.26	74.00	28.74
	35.64	Average	V				37.44	54.00	16.56
Test Data for High Channel									
5 850.00	43.61	Peak	H	32.1	12.2	42.2	45.71	74.00	28.29
	35.90	Average	H				38.00	54.00	16.00
5 850.00	43.78	Peak	V				45.88	74.00	28.12
	35.39	Average	V				37.49	54.00	16.51

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.7.2 Test data for Antenna 1

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 40 GHz
- . Measurement distance : 3 m
- . Result : PASSED

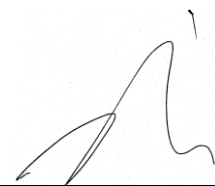
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.39	Peak	H	31.90	12.10	42.20	45.19	74.00	28.81
	35.89	Average	H				37.69	54.00	16.31
5 725.00	44.07	Peak	V				45.87	74.00	28.13
	36.06	Average	V				37.86	54.00	16.14
Test Data for High Channel									
5 850.00	43.18	Peak	H	32.10	12.20	42.20	45.28	74.00	28.72
	35.55	Average	H				37.65	54.00	16.35
5 850.00	43.74	Peak	V				45.84	74.00	28.16
	35.88	Average	V				37.98	54.00	16.02

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.7.3 Test data for Multiple transmit

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 40 GHz
- . Measurement distance : 3 m
- . Result : PASSED

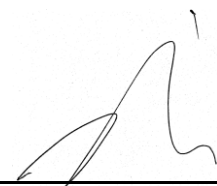
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.59	Peak	H	31.90	12.10	42.20	45.39	74.00	28.61
	35.53	Average	H				37.33	54.00	16.67
5 725.00	43.78	Peak	V				45.58	74.00	28.42
	36.01	Average	V				37.81	54.00	16.19
Test Data for High Channel									
5 850.00	43.47	Peak	H	32.10	12.20	42.20	45.57	74.00	28.43
	35.52	Average	H				37.62	54.00	16.38
5 850.00	43.79	Peak	V				45.89	74.00	28.11
	35.72	Average	V				37.82	54.00	16.18

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.8 Test data for 802.11ac_VHT80 RLAN Mode

7.5.1.8.1 Test data for Antenna 0

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 40 GHz
- . Measurement distance : 3 m
- . Result : PASSED

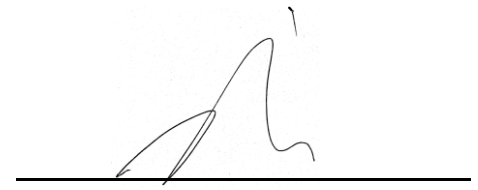
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.93	Peak	H	31.90	12.10	42.20	45.73	74.00	28.27
	36.04	Average	H				37.84	54.00	16.16
5 725.00	43.51	Peak	V				45.31	74.00	28.69
	35.51	Average	V				37.31	54.00	16.69
Test Data for High Channel									
5 850.00	42.95	Peak	H	32.10	12.20	42.20	45.05	74.00	28.95
	35.25	Average	H				37.35	54.00	16.65
5 850.00	43.74	Peak	V				45.84	74.00	28.16
	35.46	Average	V				37.56	54.00	16.44

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.8.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

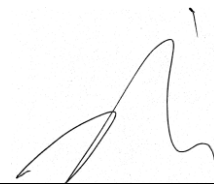
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.82	Peak	H	31.90	12.10	42.20	45.62	74.00	28.38
	36.04	Average	H				37.84	54.00	16.16
5 725.00	44.03	Peak	V				45.83	74.00	28.17
	36.25	Average	V				38.05	54.00	15.95
Test Data for High Channel									
5 850.00	43.87	Peak	H	32.10	12.20	42.20	45.97	74.00	28.03
	35.19	Average	H				37.29	54.00	16.71
5 850.00	44.02	Peak	V				46.12	74.00	27.88
	35.48	Average	V				37.58	54.00	16.42

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.8.3 Test data for Multiple transmit

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 40 GHz
- . Measurement distance : 3 m
- . Result : PASSED

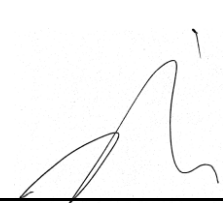
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 725.00	43.88	Peak	H	31.90	12.10	42.20	45.68	74.00	28.32
	35.91	Average	H				37.71	54.00	16.29
5 725.00	43.53	Peak	V				45.33	74.00	28.67
	36.05	Average	V				37.85	54.00	16.15
Test Data for High Channel									
5 850.00	43.56	Peak	H	32.10	12.20	42.20	45.66	74.00	28.34
	35.32	Average	H				37.42	54.00	16.58
5 850.00	43.74	Peak	V				45.84	74.00	28.16
	35.97	Average	V				38.07	54.00	15.93

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.1.9 Test data for Bluetooth LE Mode

- . Test Date : March 27, 2015
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 30 MHz ~ 12.75 GHz
- . Measurement distance : 3 m
- . Result : PASSED

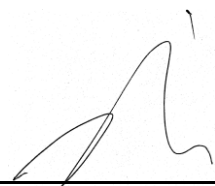
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2362.00	54.83	Peak	H	31.90	12.10	42.20	46.33	74.00	27.67
	46.14	Average	H				37.64	54.00	16.36
2362.00	52.76	Peak	V				44.26	74.00	29.74
	45.87	Average	V				37.37	54.00	16.63
Test Data for High Channel									
2484.90	59.37	Peak	H	32.10	12.20	42.20	51.47	74.00	22.53
	47.68	Average	H				39.78	54.00	14.22
2484.90	56.16	Peak	V				48.26	74.00	25.74
	45.69	Average	V				37.79	54.00	16.21

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2 Spurious & Harmonic Radiated Emission

7.5.2.1 Test data for 802.11b WLAN Mode

7.5.2.1.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

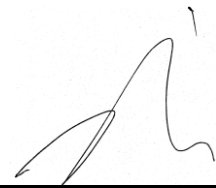
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	107.88	Peak	H	27.20	7.50	42.80	99.78	113.98	14.20
	95.36	Average	H				87.26	93.98	6.72
	108.51	Peak	V				100.41	113.98	13.57
	96.75	Average	V				88.65	93.98	5.33
7 236.00	40.67	Peak	H	35.1	11.1	41.8	45.07	73.98	28.91
	37.48	Average	H				41.88	53.98	12.10
	41.72	Peak	V				46.12	73.98	27.86
	38.25	Average	V				42.65	53.98	11.33
Test Data for Middle Channel									
2 437.00	108.18	Peak	H	27.30	7.60	42.90	100.18	113.98	13.80
	95.67	Average	H				87.67	93.98	6.31
	109.35	Peak	V				101.35	113.98	12.63
	96.97	Average	V				88.97	93.98	5.01
7 311.00	41.44	Peak	H	35.1	11.2	41.8	45.94	73.98	28.04
	36.27	Average	H				40.77	53.98	13.21
	42.85	Peak	V				47.35	73.98	26.63
	38.37	Average	V				42.87	53.98	11.11

Test Data for High Channel									
2 462.00	106.64	Peak	H	27.40	7.70	42.90	98.84	113.98	15.14
	94.34	Average	H				86.54	93.98	7.44
	108.77	Peak	V				100.97	113.98	13.01
	95.15	Average	V				87.35	93.98	6.63
7 386.00	39.58	Peak	H	35.1	11.8	41.8	44.68	73.98	29.3
	35.24	Average	H				40.34	53.98	13.64
	43.52	Peak	V				48.62	73.98	25.36
	38.39	Average	V				43.49	53.98	10.49

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.1.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

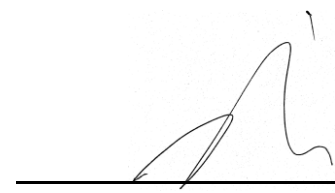
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	105.61	Peak	H	27.20	7.50	42.80	97.51	113.98	16.47
	93.06	Average	H				84.96	93.98	9.02
	106.53	Peak	V				98.43	113.98	15.55
	93.37	Average	V				85.27	93.98	8.71
4 824.00	45.57	Peak	H	30.70	11.10	42.50	44.87	73.98	29.11
	41.35	Average	H				40.65	53.98	13.33
	48.32	Peak	V				47.62	73.98	26.36
	43.57	Average	V				42.87	53.98	11.11
Test Data for Middle Channel									
2 437.00	108.65	Peak	H	27.30	7.60	42.90	100.65	113.98	13.33
	96.15	Average	H				88.15	93.98	5.83
	109.12	Peak	V				101.12	113.98	12.86
	96.97	Average	V				88.97	93.98	5.01
4 874.00	42.85	Peak	H	30.70	11.20	42.40	42.35	73.98	31.63
	40.05	Average	H				39.55	53.98	14.43
	44.8	Peak	V				44.3	73.98	29.68
	40.86	Average	V				40.36	53.98	13.62

Test Data for High Channel									
2 462.00	107.65	Peak	H	27.40	7.70	42.90	99.85	113.98	14.13
	94.86	Average	H				87.06	93.98	6.92
	108.15	Peak	V				100.35	113.98	13.63
	95.97	Average	V				88.17	93.98	5.81
4 924.00	52.44	Peak	H	30.80	11.80	42.30	52.74	73.98	21.24
	51.08	Average	H				51.38	53.98	2.60
	53.29	Peak	V				53.59	73.98	20.39
	52.17	Average	V				52.47	53.98	1.51

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.2 Test data for 802.11g WLAN Mode

7.5.2.2.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

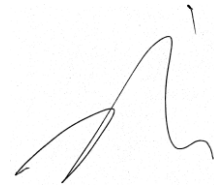
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	106.39	Peak	H	27.20	7.50	42.80	98.29	113.98	15.69
	95.55	Average	H				87.45	93.98	6.53
	107.45	Peak	V				99.35	113.98	14.63
	96.79	Average	V				88.69	93.98	5.29
4 824.00	38.80	Peak	H	30.70	11.10	42.50	38.10	73.98	35.88
	37.99	Average	H				37.29	53.98	16.69
	40.95	Peak	V				40.25	73.98	33.73
	38.18	Average	V				37.48	53.98	16.50
Test Data for Middle Channel									
2 437.00	106.13	Peak	H	27.30	7.60	42.90	98.13	113.98	15.85
	94.35	Average	H				86.35	93.98	7.63
	108.37	Peak	V				100.37	113.98	13.61
	95.68	Average	V				87.68	93.98	6.30
4 874.00	44.44	Peak	H	30.70	11.20	42.50	43.94	73.98	30.04
	43.22	Average	H				42.72	53.98	11.26
	46.88	Peak	V				46.38	73.98	27.60
	43.62	Average	V				43.12	53.98	10.86

Test Data for High Channel									
2 462.00	105.45	Peak	H	27.40	7.70	42.90	97.65	113.98	16.33
	93.82	Average	H				86.02	93.98	7.96
	107.25	Peak	V				99.45	113.98	14.53
	94.70	Average	V				86.90	93.98	7.08
7 386.00	42.21	Peak	H	35.1	11.8	41.8	47.31	73.98	26.67
	40.07	Average	H				45.17	53.98	8.81
	43.90	Peak	V				49.00	73.98	24.98
	41.24	Average	V				46.34	53.98	7.64

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.2.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

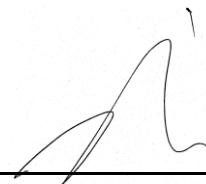
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	106.54	Peak	H	27.20	7.50	42.80	98.44	113.98	15.54
	95.55	Average	H				87.45	93.98	6.53
	108.67	Peak	V				100.57	113.98	13.41
	97.05	Average	V				88.95	93.98	5.03
4 824.00	55.97	Peak	H	30.70	11.10	42.50	55.27	73.98	18.71
	44.03	Average	H				43.33	53.98	10.65
	59.16	Peak	V				58.46	73.98	15.52
	46.67	Average	V				45.97	53.98	8.01
Test Data for Middle Channel									
2 437.00	107.06	Peak	H	27.30	7.60	42.90	99.06	113.98	14.92
	95.75	Average	H				87.75	93.98	6.23
	109.13	Peak	V				101.13	113.98	12.85
	97.32	Average	V				89.32	93.98	4.66
4 874.00	56.85	Peak	H	30.70	11.20	42.50	56.35	73.98	17.63
	49.71	Average	H				49.21	53.98	4.77
	60.37	Peak	V				59.87	73.98	14.11
	50.62	Average	V				50.12	53.98	3.86

Test Data for High Channel									
2 462.00	106.43	Peak	H	27.40	7.70	42.90	98.63	113.98	15.35
	94.81	Average	H				87.01	93.98	6.97
	108.02	Peak	V				100.22	113.98	13.76
	96.58	Average	V				88.78	93.98	5.20
4 924.00	47.26	Peak	H	30.80	11.80	42.50	47.56	73.98	26.42
	41.84	Average	H				42.14	53.98	11.84
	48.72	Peak	V				49.02	73.98	24.96
	45.57	Average	V				45.87	53.98	8.11

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.3 Test data for 802.11n_HT20 WLAN Mode

7.5.2.3.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

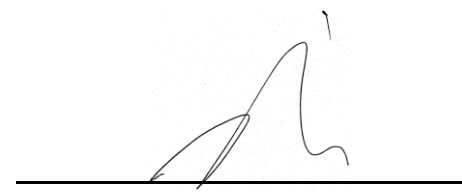
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	104.64	Peak	H	27.20	7.50	42.80	96.54	113.98	17.44
	94.67	Average	H				86.57	93.98	7.41
	106.45	Peak	V				98.35	113.98	15.63
	94.90	Average	V				86.80	93.98	7.18
4 824.00	41.02	Peak	H	30.70	11.10	42.50	40.32	73.98	33.66
	38.06	Average	H				37.36	53.98	16.62
	41.43	Peak	V				40.73	73.98	33.25
	38.21	Average	V				37.51	53.98	16.47
Test Data for Middle Channel									
2 437.00	105.02	Peak	H	27.30	7.60	42.90	97.02	113.98	16.96
	94.83	Average	H				86.83	93.98	7.15
	108.05	Peak	V				100.05	113.98	13.93
	95.34	Average	V				87.34	93.98	6.64
4 874.00	43.31	Peak	H	30.70	11.20	42.40	42.81	73.98	31.17
	39.07	Average	H				38.57	53.98	15.41
	47.18	Peak	V				46.68	73.98	27.30
	42.37	Average	V				41.87	53.98	12.11

Test Data for High Channel									
2 462.00	104.34	Peak	H	27.40	7.70	42.90	96.54	113.98	17.44
	93.48	Average	H				85.68	93.98	8.30
	107.01	Peak	V				99.21	113.98	14.77
	93.91	Average	V				86.11	93.98	7.87
4 924.00	40.87	Peak	H	30.80	11.80	42.30	41.17	73.98	32.81
	37.57	Average	H				37.87	53.98	16.11
	40.68	Peak	V				40.98	73.98	33.00
	37.93	Average	V				38.23	53.98	15.75

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.3.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

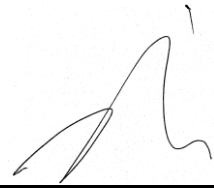
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	103.70	Peak	H	27.20	7.50	42.80	95.60	113.98	18.38
	92.57	Average	H				84.47	93.98	9.51
	106.55	Peak	V				98.45	113.98	15.53
	94.55	Average	V				86.45	93.98	7.53
4 824.00	41.57	Peak	H	30.70	11.10	42.50	40.87	73.98	33.11
	38.09	Average	H				37.39	53.98	16.59
	42.28	Peak	V				41.58	73.98	32.40
	37.96	Average	V				37.26	53.98	16.72
Test Data for Middle Channel									
2 437.00	103.79	Peak	H	27.30	7.60	42.90	95.79	113.98	18.19
	92.68	Average	H				84.68	93.98	9.30
	108.02	Peak	V				100.02	113.98	13.96
	97.36	Average	V				89.36	93.98	4.62
4 874.00	58.95	Peak	H	30.70	11.20	42.40	58.45	73.98	15.53
	53.11	Average	H				52.61	53.98	1.37
	59.98	Peak	V				59.48	73.98	14.50
	50.63	Average	V				50.13	53.98	3.85

Test Data for High Channel									
2 462.00	103.45	Peak	H	27.40	7.70	42.90	95.65	113.98	18.33
	92.83	Average	H				85.03	93.98	8.95
	107.04	Peak	V				99.24	113.98	14.74
	96.18	Average	V				88.38	93.98	5.60
4 924.00	41.08	Peak	H	30.80	11.80	42.30	41.38	73.98	32.60
	37.82	Average	H				38.12	53.98	15.86
	42.03	Peak	V				42.33	73.98	31.65
	38.51	Average	V				38.81	53.98	15.17

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.3.3 Test data for Multiple transmit

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

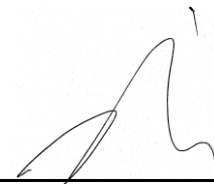
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	104.29	Peak	H	27.20	7.50	42.80	96.19	113.98	17.79
	93.47	Average	H				85.37	93.98	8.61
	107.31	Peak	V				99.21	113.98	14.77
	95.51	Average	V				87.41	93.98	6.57
4 824.00	41.05	Peak	H	30.70	11.10	42.50	40.35	73.98	33.63
	37.92	Average	H				37.22	53.98	16.76
	41.27	Peak	V				40.57	73.98	33.41
	38.67	Average	V				37.97	53.98	16.01
Test Data for Middle Channel									
2 437.00	104.27	Peak	H	27.30	7.60	42.90	96.27	113.98	17.71
	93.60	Average	H				85.60	93.98	8.38
	107.85	Peak	V				99.85	113.98	14.13
	95.69	Average	V				87.69	93.98	6.29
4 874.00	53.37	Peak	H	30.70	11.20	42.40	52.87	73.98	21.11
	40.85	Average	H				40.35	53.98	13.63
	56.51	Peak	V				56.01	73.98	17.97
	45.25	Average	V				44.75	53.98	9.23

Test Data for High Channel									
2 462.00	103.99	Peak	H	27.40	7.70	42.90	96.19	113.98	17.79
	92.79	Average	H				84.99	93.98	8.99
	107.15	Peak	V				99.35	113.98	14.63
	95.88	Average	V				88.08	93.98	5.90
4 924.00	42.96	Peak	H	30.80	11.80	42.30	43.26	73.98	30.72
	38.54	Average	H				38.84	53.98	15.14
	43.90	Peak	V				44.20	73.98	29.78
	41.67	Average	V				41.97	53.98	12.01

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.4 Test data for 802.11n_HT40 WLAN Mode

7.5.2.4.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

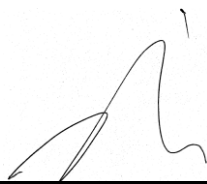
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 422.00	101.31	Peak	H	27.20	7.50	42.80	93.21	113.98	20.77
	90.59	Average	H				82.49	93.98	11.49
	103.78	Peak	V				95.68	113.98	18.30
	93.15	Average	V				85.05	93.98	8.93
4 844.00	41.17	Peak	H	31.10	11.80	42.50	41.57	73.98	32.41
	37.56	Average	H				37.96	53.98	16.02
	41.09	Peak	V				41.49	73.98	32.49
	38.21	Average	V				38.61	53.98	15.37
Test Data for Middle Channel									
2 437.00	101.54	Peak	H	27.30	7.60	42.90	93.54	113.98	20.44
	90.97	Average	H				82.97	93.98	11.01
	104.77	Peak	V				96.77	113.98	17.21
	93.84	Average	V				85.84	93.98	8.14
7 311.00	36.31	Peak	H	35.1	11.7	41.8	41.31	73.98	32.67
	32.28	Average	H				37.28	53.98	16.70
	37.15	Peak	V				42.15	73.98	31.83
	33.28	Average	V				38.28	53.98	15.7

Test Data for High Channel									
2 452.00	100.79	Peak	H	27.4	7.7	42.9	92.99	113.98	20.99
	89.76	Average	H				81.96	93.98	12.02
	103.92	Peak	V				96.12	113.98	17.86
	93.35	Average	V				85.55	93.98	8.43
4 904.00	40.69	Peak	H	31.3	11.8	42.5	41.29	73.98	32.69
	36.97	Average	H				37.57	53.98	16.41
	41.05	Peak	V				41.65	73.98	32.33
	37.38	Average	V				37.98	53.98	16.00

Remark: “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.4.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED


Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	101.39	Peak	H	27.20	7.50	42.80	93.29	113.98	20.69
	91.01	Average	H				82.91	93.98	11.07
	104.68	Peak	V				96.58	113.98	17.40
	93.24	Average	V				85.14	93.98	8.84
4 824.00	41.04	Peak	H	31.10	11.80	42.50	41.44	73.98	32.54
	37.17	Average	H				37.57	53.98	16.41
	41.42	Peak	V				41.82	73.98	32.16
	37.54	Average	V				37.94	53.98	16.04
Test Data for Middle Channel									
2 372.00	101.68	Peak	H	27.30	7.60	42.90	93.68	113.98	20.30
	90.67	Average	H				82.67	93.98	11.31
	104.72	Peak	V				96.72	113.98	17.26
	93.18	Average	V				85.18	93.98	8.80
4 874.00	51.14	Peak	H	31.20	11.70	42.50	51.54	73.98	22.44
	43.90	Average	H				44.30	53.98	9.68
	54.53	Peak	V				54.93	73.98	19.05
	45.27	Average	V				45.67	53.98	8.31

Test Data for High Channel									
2 462.00	100.88	Peak	H	27.40	7.70	42.90	93.08	113.98	20.90
	100.17	Average	H				92.37	93.98	1.61
	104.05	Peak	V				96.25	113.98	17.73
	93.26	Average	V				85.46	93.98	8.52
4 924.00	40.49	Peak	H	31.30	11.80	42.50	41.09	73.98	32.89
	36.40	Average	H				37.00	53.98	16.98
	40.98	Peak	V				41.58	73.98	32.40
	37.05	Average	V				37.65	53.98	16.33

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.4.3 Test data for Multiple transmit

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

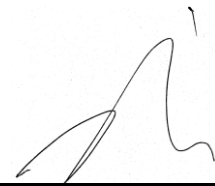
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 412.00	103.98	Peak	H	27.20	7.50	42.80	95.88	113.98	18.10
	93.49	Average	H				85.39	93.98	8.59
	105.82	Peak	V				97.72	113.98	16.26
	93.22	Average	V				85.12	93.98	8.86
4 824.00	41.44	Peak	H	31.10	11.80	42.50	41.84	73.98	32.14
	37.59	Average	H				37.99	53.98	15.99
	42.24	Peak	V				42.64	73.98	31.34
	39.61	Average	V				40.01	53.98	13.97
Test Data for Middle Channel									
2 437.00	104.84	Peak	H	27.30	7.60	42.90	96.84	113.98	17.14
	93.79	Average	H				85.79	93.98	8.19
	106.05	Peak	V				98.05	113.98	15.93
	95.81	Average	V				87.81	93.98	6.17
4 874.00	51.72	Peak	H	31.20	11.70	42.50	52.12	73.98	21.86
	48.28	Average	H				48.68	53.98	5.30
	44.58	Peak	V				44.98	73.98	29.00
	40.25	Average	V				40.65	53.98	13.33

Test Data for High Channel									
2 462.00	103.75	Peak	H	27.40	7.70	42.90	95.95	113.98	18.03
	92.10	Average	H				84.30	93.98	9.68
	105.35	Peak	V				97.55	113.98	16.43
	93.93	Average	V				86.13	93.98	7.85
4 924.00	40.62	Peak	H	31.30	11.80	42.50	41.22	73.98	32.76
	37.13	Average	H				37.73	53.98	16.25
	41.46	Peak	V				42.06	73.98	31.92
	38.98	Average	V				39.58	53.98	14.4

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.5 Test data for 802.11a RLAN Mode

7.5.2.5.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

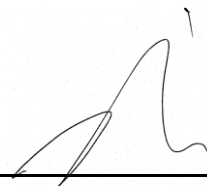
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 745.00	84.83	Peak	H	32.10	12.20	42.20	86.93	113.98	27.05
	73.35	Average	H				75.45	93.98	18.53
	89.82	Peak	V				91.92	113.98	22.06
	79.33	Average	V				81.43	93.98	12.55
11 490.00	42.44	Peak	H	41.10	17.50	40.80	60.24	73.98	13.74
	27.52	Average	H				45.32	53.98	8.66
	48.32	Peak	V				66.12	73.98	7.86
	32.55	Average	V				50.35	53.98	3.63
Test Data for Middle Channel									
5 785.00	85.43	Peak	H	32.10	12.20	42.20	87.53	113.98	26.45
	74.03	Average	H				76.13	93.98	17.85
	90.35	Peak	V				92.45	113.98	21.53
	79.23	Average	V				81.33	93.98	12.65
11 570.00	42.62	Peak	H	41.20	17.50	41.20	60.12	73.98	13.86
	26.86	Average	H				44.36	53.98	9.62
	47.57	Peak	V				65.07	73.98	8.91
	32.02	Average	V				49.52	53.98	4.46

Test Data for High Channel									
5 825.00	85.11	Peak	H	32.10	12.20	42.20	87.21	113.98	26.77
	72.56	Average	H				74.66	93.98	19.32
	89.22	Peak	V				91.32	113.98	22.66
	78.35	Average	V				80.45	93.98	13.53
11 650.00	46.24	Peak	H	39.50	17.50	42.70	60.54	73.98	13.44
	30.87	Average	H				45.17	53.98	8.81
	51.48	Peak	V				65.78	73.98	8.20
	35.86	Average	V				50.16	53.98	3.82

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.5.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

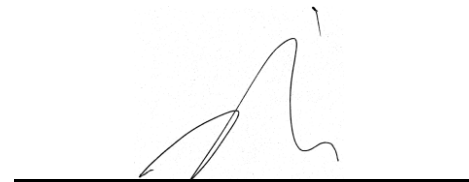
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 745.00	84.44	Peak	H	32.10	12.20	42.20	86.54	113.98	27.44
	72.23	Average	H				74.33	93.98	19.65
	90.45	Peak	V				92.55	113.98	21.43
	79.33	Average	V				81.43	93.98	12.55
11 490.00	41.77	Peak	H	41.10	17.50	40.80	59.57	73.98	14.41
	26.92	Average	H				44.72	53.98	9.26
	46.36	Peak	V				64.16	73.98	9.82
	33.41	Average	V				51.21	53.98	2.77
Test Data for Middle Channel									
5 785.00	86.13	Peak	H	32.10	12.20	42.20	88.23	113.98	25.75
	76.23	Average	H				78.33	93.98	15.65
	93.23	Peak	V				95.33	113.98	18.65
	81.46	Average	V				83.56	93.98	10.42
11 570.00	44.15	Peak	H	39.50	17.50	42.70	58.45	73.98	15.53
	29.97	Average	H				44.27	53.98	9.71
	48.77	Peak	V				63.07	73.98	10.91
	36.03	Average	V				50.33	53.98	3.65

Test Data for High Channel									
5 825.00	86.46	Peak	H	32.10	12.20	42.20	88.56	113.98	25.42
	73.34	Average	H				75.44	93.98	18.54
	92.56	Peak	V				94.66	113.98	19.32
	80.03	Average	V				82.13	93.98	11.85
11 650.00	44.56	Peak	H	39.50	17.50	42.70	58.86	73.98	15.12
	30.20	Average	H				44.50	53.98	9.48
	48.95	Peak	V				63.25	73.98	10.73
	36.39	Average	V				50.69	53.98	3.29

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.6 Test data for 802.11n_HT20 RLAN Mode

7.5.2.6.1 Test data for Antenna 0

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

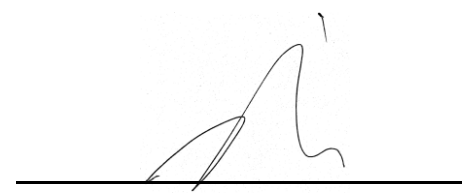
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 745.00	81.34	Peak	H	32.10	12.20	42.20	83.44	113.98	30.54
	69.56	Average	H				71.66	93.98	22.32
	87.55	Peak	V				89.65	113.98	24.33
	76.55	Average	V				78.65	93.98	15.33
11 490.00	43.44	Peak	H	41.10	17.50	40.80	61.24	73.98	12.74
	29.78	Average	H				47.58	53.98	6.40
	46.53	Peak	V				64.33	73.98	9.65
	33.52	Average	V				51.32	53.98	2.66
Test Data for Middle Channel									
5 785.00	83.26	Peak	H	32.10	12.20	42.20	85.36	113.98	28.62
	71.16	Average	H				73.26	93.98	20.72
	89.35	Peak	V				91.45	113.98	22.53
	78.12	Average	V				80.22	93.98	13.76
11 570.00	43.83	Peak	H	41.20	17.50	41.20	61.33	73.98	12.65
	29.19	Average	H				46.69	53.98	7.29
	48.21	Peak	V				65.71	73.98	8.27
	34.18	Average	V				51.68	53.98	2.30

Test Data for High Channel									
5 825.00	82.23	Peak	H	32.10	12.20	42.20	84.33	113.98	29.65
	70.59	Average	H				72.69	93.98	21.29
	88.56	Peak	V				90.66	113.98	23.32
	76.34	Average	V				78.44	93.98	15.54
11 650.00	43.11	Peak	H	41.30	17.50	41.60	60.31	73.98	13.67
	28.57	Average	H				45.77	53.98	8.21
	46.85	Peak	V				64.05	73.98	9.93
	33.77	Average	V				50.97	53.98	3.01

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.6.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

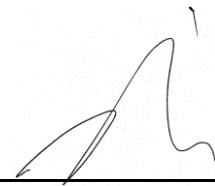
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 745.00	81.59	Peak	H	32.10	12.20	42.20	83.69	113.98	30.29
	70.00	Average	H				72.10	93.98	21.88
	86.34	Peak	V				88.44	113.98	25.54
	76.23	Average	V				78.33	93.98	15.65
11 490.00	41.17	Peak	H	41.10	17.50	41.40	58.37	73.98	15.61
	27.06	Average	H				44.26	53.98	9.72
	46.33	Peak	V				63.53	73.98	10.45
	33.84	Average	V				51.04	53.98	2.94
Test Data for Middle Channel									
5 785.00	86.50	Peak	H	32.10	12.20	42.20	88.60	113.98	25.38
	74.13	Average	H				76.23	93.98	17.75
	92.01	Peak	V				94.11	113.98	19.87
	78.46	Average	V				80.56	93.98	13.42
11 570.00	43.34	Peak	H	41.20	17.50	41.80	60.24	73.98	13.74
	29.68	Average	H				46.58	53.98	7.40
	47.86	Peak	V				64.76	73.98	9.22
	34.45	Average	V				51.35	53.98	2.63

Test Data for High Channel									
5 825.00	84.45	Peak	H	32.10	12.20	42.20	86.55	113.98	27.43
	72.23	Average	H				74.33	93.98	19.65
	89.55	Peak	V				91.65	113.98	22.33
	78.13	Average	V				80.23	93.98	13.75
11 650.00	38.81	Peak	H	39.50	17.50	42.70	53.11	73.98	20.87
	28.56	Average	H				42.86	53.98	11.12
	42.30	Peak	V				56.60	73.98	17.38
	32.23	Average	V				46.53	53.98	7.45

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.6.3 Test data for Multiple transmit

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

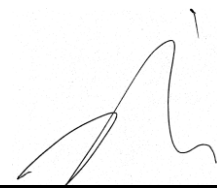
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 745.00	83.23	Peak	H	32.10	12.20	42.20	85.33	113.98	28.65
	70.56	Average	H				72.66	93.98	21.32
	88.43	Peak	V				90.53	113.98	23.45
	77.24	Average	V				79.34	93.98	14.64
11 490.00	39.93	Peak	H	41.10	17.50	41.40	57.13	73.98	16.85
	25.87	Average	H				43.07	53.98	10.91
	46.22	Peak	V				63.42	73.98	10.56
	31.15	Average	V				48.35	53.98	5.63
Test Data for Middle Channel									
5 785.00	86.03	Peak	H	32.10	12.20	42.20	88.13	113.98	25.85
	74.47	Average	H				76.57	93.98	17.41
	92.55	Peak	V				94.65	113.98	19.33
	80.50	Average	V				82.60	93.98	11.38
11 570.00	43.46	Peak	H	41.20	17.50	41.80	60.36	73.98	13.62
	28.08	Average	H				44.98	53.98	9.00
	47.97	Peak	V				64.87	73.98	9.11
	31.29	Average	V				48.19	53.98	5.79

Test Data for High Channel									
5 825.00	85.55	Peak	H	32.10	12.20	42.20	87.65	113.98	26.33
	72.63	Average	H				74.73	93.98	19.25
	90.51	Peak	V				92.61	113.98	21.37
	79.23	Average	V				81.33	93.98	12.65
11 650.00	42.17	Peak	H	41.30	17.50	42.20	58.77	73.98	15.21
	30.87	Average	H				47.47	53.98	6.51
	46.65	Peak	V				63.25	73.98	10.73
	34.70	Average	V				51.30	53.98	2.68

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jvun-Hui, Lee/ Senior Engineer

7.5.2.7 Test data for 802.11n_HT40 RLAN Mode

7.5.2.7.1 Test data for Antenna 0

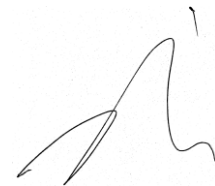
- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 755.00	83.26	Peak	H	32.10	12.20	42.20	85.36	113.98	28.62
	70.03	Average	H				72.13	93.98	21.85
	90.00	Peak	V				92.10	113.98	21.88
	77.23	Average	V				79.33	93.98	14.65
11 510.00	37.06	Peak	H	41.10	17.50	41.40	54.26	73.98	19.72
	23.15	Average	H				40.35	53.98	13.63
	44.58	Peak	V				61.78	73.98	12.20
	33.36	Average	V				50.56	53.98	3.42
Test Data for High Channel									
5 795.00	82.00	Peak	H	32.10	12.20	42.20	84.10	113.98	29.88
	68.13	Average	H				70.23	93.98	23.75
	89.35	Peak	V				91.45	113.98	22.53
	76.13	Average	V				78.23	93.98	15.75
11 590.00	37.80	Peak	H	41.20	17.50	41.80	54.70	73.98	19.28
	23.42	Average	H				40.32	53.98	13.66
	45.53	Peak	V				62.43	73.98	11.55
	34.38	Average	V				51.28	53.98	2.70

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.7.2 Test data for Antenna 1

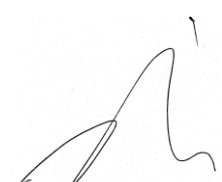
- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 755.00	83.35	Peak	H	32.10	12.20	42.20	85.45	113.98	28.53
	70.01	Average	H				72.11	93.98	21.87
	90.55	Peak	V				92.65	113.98	21.33
	77.46	Average	V				79.56	93.98	14.42
11 510.00	39.68	Peak	H	41.10	17.50	41.40	56.88	73.98	17.10
	27.09	Average	H				44.29	53.98	9.69
	43.01	Peak	V				60.21	73.98	13.77
	31.69	Average	V				48.89	53.98	5.09
Test Data for High Channel									
5 795.00	82.55	Peak	H	32.10	12.20	42.20	84.65	113.98	29.33
	68.55	Average	H				70.65	93.98	23.33
	90.03	Peak	V				92.13	113.98	21.85
	77.58	Average	V				79.68	93.98	14.30
11 590.00	39.02	Peak	H	41.20	17.50	41.80	55.92	73.98	18.06
	28.97	Average	H				45.87	53.98	8.11
	43.78	Peak	V				60.68	73.98	13.30
	32.02	Average	V				48.92	53.98	5.06

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.7.3 Test data for Multiple transmit

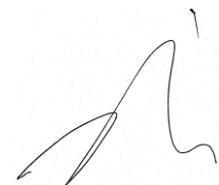
- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5 755.00	84.20	Peak	H	32.10	12.20	42.20	86.30	113.98	27.68
	71.57	Average	H				73.67	93.98	20.31
	90.06	Peak	V				92.16	113.98	21.82
	77.58	Average	V				79.68	93.98	14.30
11 510.00	40.64	Peak	H	41.10	17.50	41.40	57.84	73.98	16.14
	28.29	Average	H				45.49	53.98	8.49
	44.58	Peak	V				61.78	73.98	12.20
	32.88	Average	V				50.08	53.98	3.90
Test Data for High Channel									
5 795.00	83.24	Peak	H	32.10	12.20	42.20	85.34	113.98	28.64
	68.55	Average	H				70.65	93.98	23.33
	90.55	Peak	V				92.65	113.98	21.33
	80.46	Average	V				82.56	93.98	11.42
11 590.00	42.81	Peak	H	41.20	17.50	41.80	59.71	73.98	14.27
	30.13	Average	H				47.03	53.98	6.95
	46.68	Peak	V				63.58	73.98	10.40
	34.52	Average	V				51.42	53.98	2.56

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.8 Test data for 802.11ac_VHT80 RLAN Mode

7.5.2.8.1 Test data for Antenna 0


- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5775.00	84.12	Peak	H	32.10	12.20	42.20	86.22	113.98	27.76
	69.13	Average	H				71.23	93.98	22.75
	88.03	Peak	V				90.13	113.98	23.85
	76.23	Average	V				78.33	93.98	15.65
11 550.00	41.97	Peak	H	41.20	17.50	41.80	58.87	73.98	15.11
	31.80	Average	H				48.70	53.98	5.28
	45.60	Peak	V				62.50	73.98	11.48
	33.08	Average	V				49.98	53.98	4.00

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.8.2 Test data for Antenna 1

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5775.00	81.56	Peak	H	32.10	12.20	42.20	83.66	113.98	30.32
	68.70	Average	H				70.80	93.98	23.18
	89.69	Peak	V				91.79	113.98	22.19
	76.55	Average	V				78.65	93.98	15.33
11 550.00	43.44	Peak	H	41.20	17.50	41.80	60.34	73.98	13.64
	30.35	Average	H				47.25	53.98	6.73
	45.71	Peak	V				62.61	73.98	11.37
	33.05	Average	V				49.95	53.98	4.03

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.8.3 Test data for Multiple transmit


- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
5775.00	81.29	Peak	H	32.10	12.20	42.20	83.39	113.98	30.59
	68.50	Average	H				70.60	93.98	23.38
	89.56	Peak	V				91.66	113.98	22.32
	76.25	Average	V				78.35	93.98	15.63
11 550.00	41.81	Peak	H	41.20	17.50	41.80	58.71	73.98	15.27
	30.42	Average	H				47.32	53.98	6.66
	45.10	Peak	V				62.00	73.98	11.98
	33.36	Average	V				50.26	53.98	3.72

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

7.5.2.9 Test data for Bluetooth LE Mode

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Result : PASSED

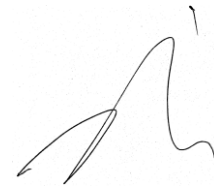
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 402.00	95.74	Peak	H	27.20	7.50	42.80	87.64	113.98	26.34
	88.22	Average	H				80.12	93.98	13.86
	97.23	Peak	V				89.13	113.98	24.85
	90.73	Average	V				82.63	93.98	11.35
4 804.00	42.64	Peak	H	30.70	11.10	42.50	41.94	73.98	32.04
	40.76	Average	H				40.06	53.98	13.92
	43.54	Peak	V				42.84	73.98	31.14
	42.01	Average	V				41.31	53.98	12.67
Test Data for High Channel									
2 440.00	95.12	Peak	H	27.30	7.60	42.90	87.12	113.98	26.86
	87.9	Average	H				79.9	93.98	14.08
	97.02	Peak	V				89.02	113.98	24.96
	90.68	Average	V				82.68	93.98	11.30
4 880.00	40.98	Peak	H	30.70	11.20	42.40	40.48	73.98	33.50
	39.11	Average	H				38.61	53.98	15.37
	42.26	Peak	V				41.76	73.98	32.22
	40.54	Average	V				40.04	53.98	13.94

Test Data for High Channel									
2 480.00	94.48	Peak	H	27.40	7.70	42.90	86.68	113.98	27.30
	87.05	Average	H				79.25	93.98	14.73
	96.43	Peak	V				88.63	113.98	25.35
	89.23	Average	V				81.43	93.98	12.55
4 960.00	39.66	Peak	H	30.80	11.80	42.30	39.96	73.98	34.02
	37.11	Average	H				37.41	53.98	16.57
	40.57	Peak	V				40.87	73.98	33.11
	39.37	Average	V				39.67	53.98	14.31

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Jun-Hui, Lee/ Senior Engineer

8. RADIATED EMISSION TEST

8.1 Operating environment

Temperature : 20 °C
Relative humidity : 45 % R.H.

8.2 Test set-up

The radiated emissions measurements were on the 3 m, open-field test site. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

8.3 Test equipment used

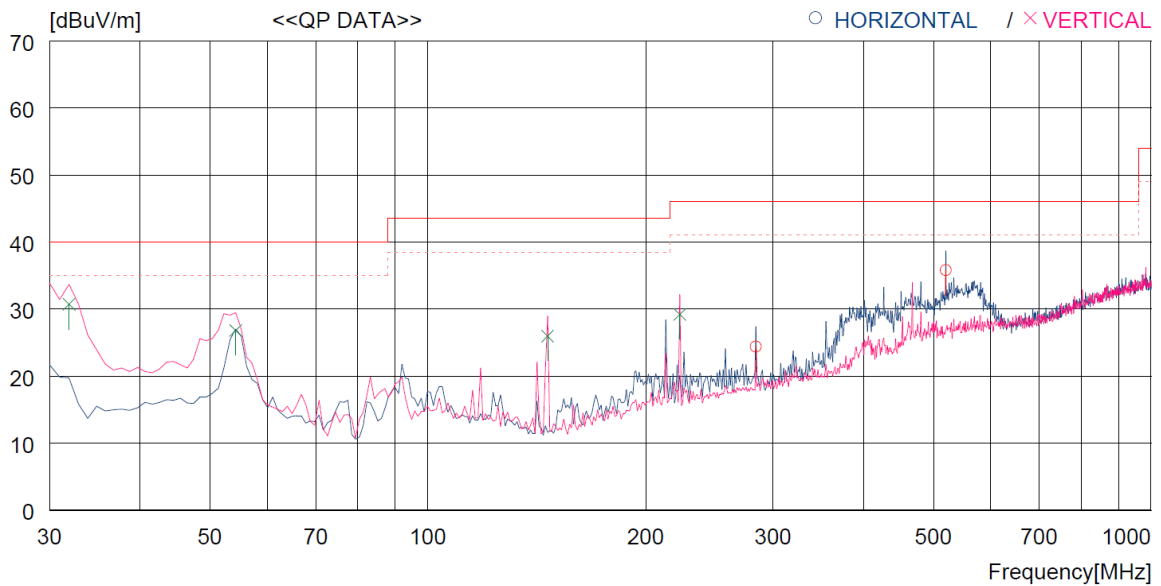
	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
□ -	ESCI	Rohde & Schwarz	EMI Test Receiver	101012	Nov. 03, 2014(1Y)
■ -	ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 29, 2014(1Y)
□ -	8564E	HP	Spectrum Analyzer	3650A00756	Apr. 28, 2014(1Y)
□ -	FSP	Rohde & Schwarz	Spectrum Analyzer	100017	Nov. 05, 2013(1Y)
■ -	310N	Sonoma Instrument	AMPLIFIER	312544	Apr. 28, 2014(1Y)
■ -	FSV30	Rohde & Schwarz	Signal Analyzer	101372	Apr. 28, 2014(1Y)
■ -	SCU-18	Rohde & Schwarz	Signal Conditioning Unit	102209	Jun. 12, 2014(1Y)
■ -	MA240	HD GmbH	Antenna Master	N/A	N/A
■ -	HD100	HD GmbH	Position Controller	N/A	N/A
■ -	DS420S	HD GmbH	Turn Table	N/A	N/A
■ -	HFH2-Z2	Rohde & Schwarz	Loop Antenna	879 285/26	Dec. 09, 2014(2Y)
■ -	VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-255	May 02, 2014(2Y)
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Sep. 05, 2013(2Y)
■ -	BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	N/A
■ -	83051A	Agilent	Microwave System Preamplifier	3950M00201	Apr. 30, 2014(1Y)

All test equipment used is calibrated on a regular basis.

8.4 Test data for 802.11b WLAN Mode

Humidity Level : 44 % R.H. Temperature: 21.1 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247
 Result : PASSED

EUT : Premium Enterprise Tablet Date: March 27, 2015
 Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
 Operating condition : Tablet pc Charging Mode



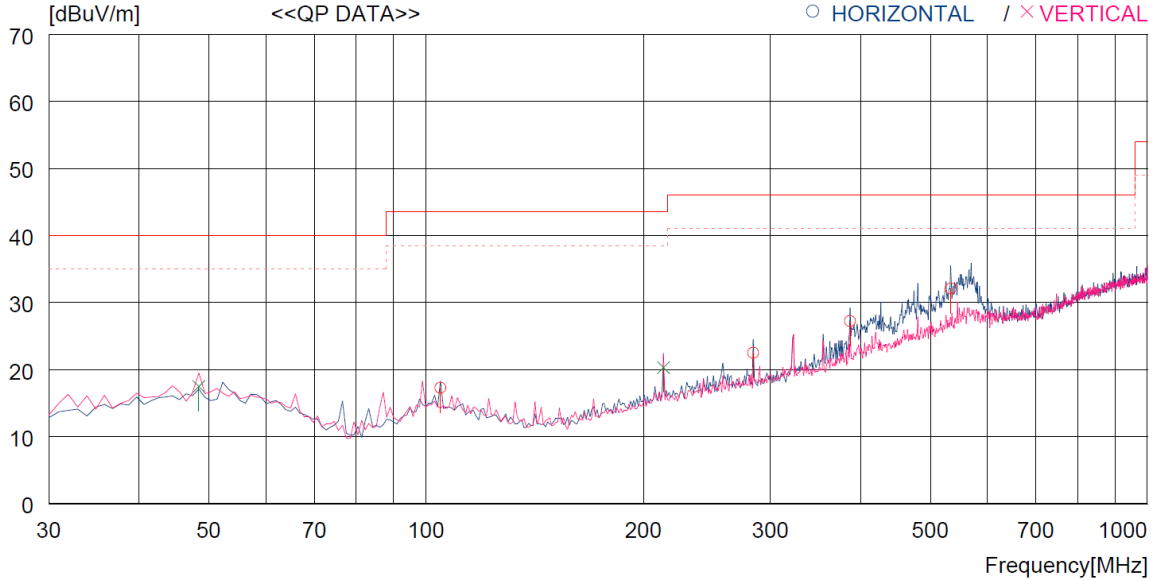
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	284.140	33.6	14.4	9.4	33.0	24.4	46.0	21.6	100	12
2	519.850	39.4	18.8	10.7	33.1	35.8	46.0	10.2	200	65
----- Vertical -----										
3	31.940	43.8	13.1	7.0	33.2	30.7	40.0	9.3	200	214
4	54.250	37.9	14.7	7.4	33.2	26.8	40.0	13.2	138	0
5	146.400	41.5	9.2	8.4	33.1	26.0	43.5	17.5	300	307
6	223.030	40.3	12.9	9.0	33.0	29.2	46.0	16.8	138	0

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Portable Portable Mode



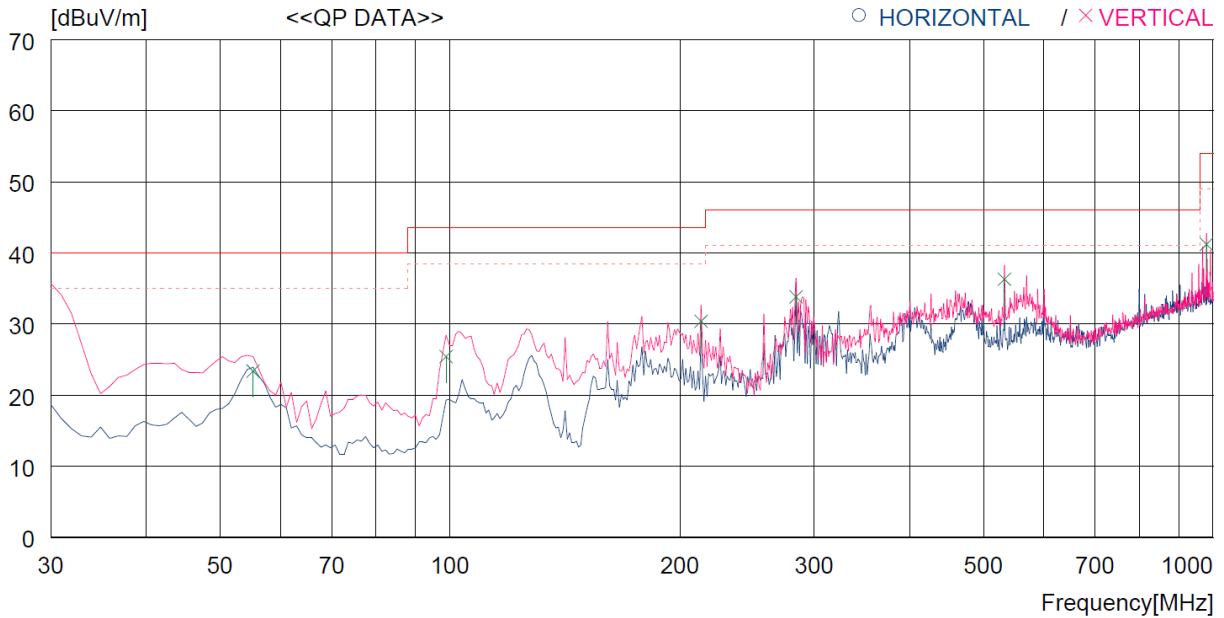
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	104.690	29.3	13.1	8.0	33.1	17.3	43.5	26.2	400	60
2	284.140	31.7	14.4	9.4	33.0	22.5	46.0	23.5	200	0
3	386.960	33.6	16.6	10.0	33.0	27.2	46.0	18.8	300	359
4	533.430	35.4	19.1	10.8	33.2	32.1	46.0	13.9	200	59
----- Vertical -----										
5	48.430	28.1	15.2	7.4	33.2	17.5	40.0	22.5	200	81
6	213.330	31.8	12.6	8.9	33.0	20.3	43.5	23.2	100	341

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Cradle Charging Mode



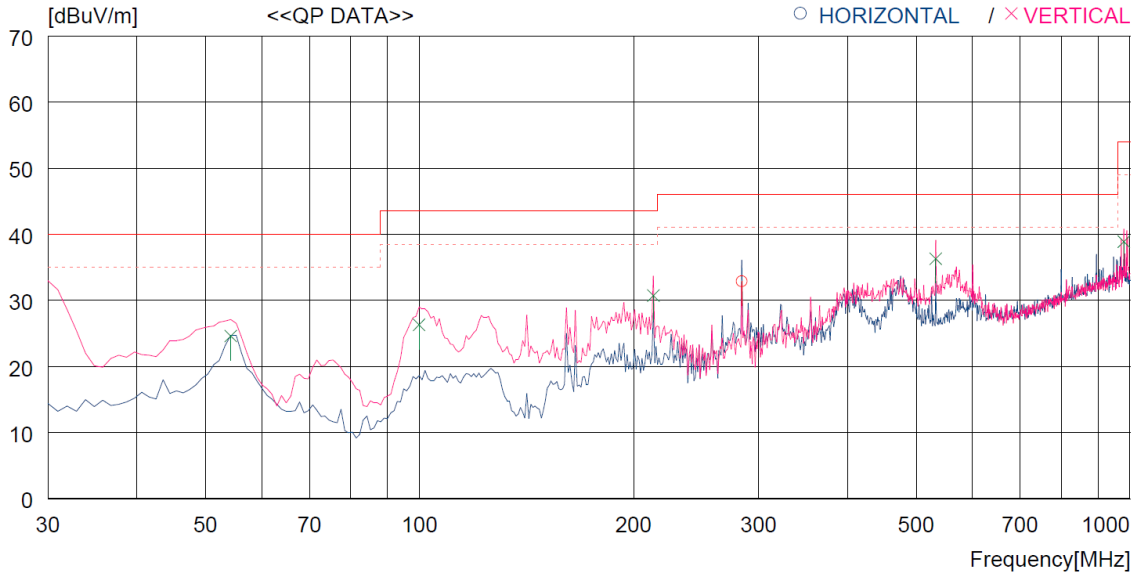
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Vertical -----										
1	55.220	35.7	13.5	7.3	33.1	23.4	40.0	16.6	100	235
2	98.870	38.6	11.7	8.2	33.1	25.4	43.5	18.1	100	123
3	213.330	42.4	11.2	9.7	32.9	30.4	43.5	13.1	100	0
4	284.140	43.2	13.2	10.3	32.9	33.8	46.0	12.2	200	355
5	532.460	38.9	17.9	12.7	33.2	36.3	46.0	9.7	100	59
6	979.617	34.8	22.6	15.6	31.8	41.2	54.0	12.8	100	0

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Emission Level (dB}\mu\text{V/m)}$$

Tested by: Jun-Hui, Lee/ Senior Engineer

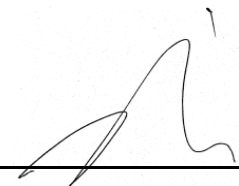
Operating condition : Tablet pc IC Card Reader Charging Mode



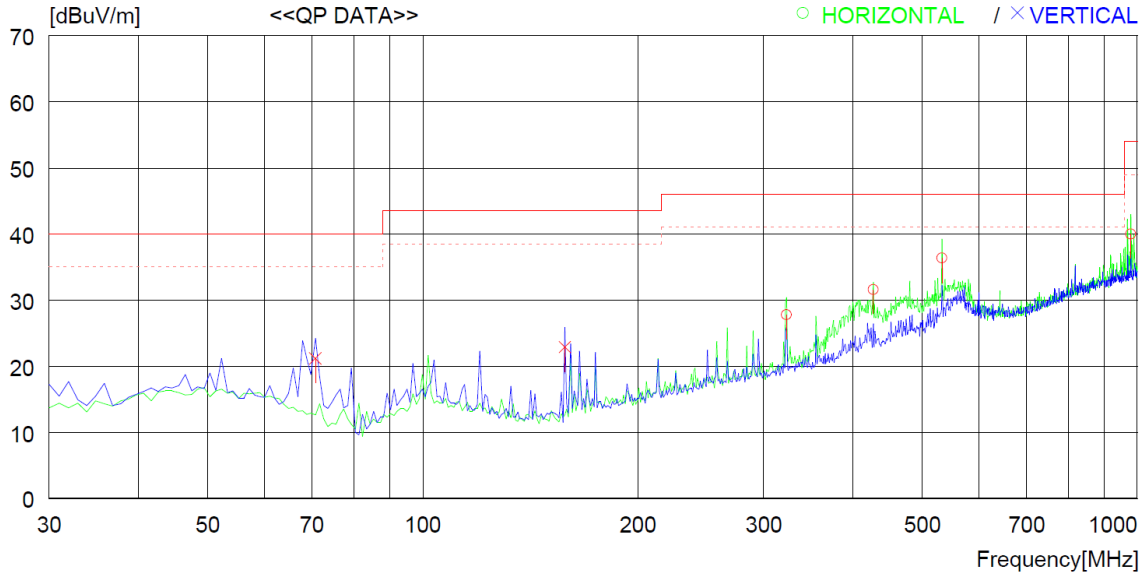
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	284.140	42.3	13.2	10.3	32.9	32.9	46.0	13.1	100	223
----- Vertical -----										
2	54.250	36.8	13.5	7.3	33.0	24.6	40.0	15.4	111	0
3	99.840	39.3	11.9	8.2	33.1	26.3	43.5	17.2	100	131
4	213.330	42.7	11.2	9.7	32.9	30.7	43.5	12.8	100	358
5	532.460	38.9	17.9	12.7	33.2	36.3	46.0	9.7	100	74
6	979.617	32.5	22.6	15.6	31.8	38.9	54.0	15.1	100	152

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Emission Level (dB}\mu\text{V/m)}$$


Tested by: Jun-Hui, Lee/ Senior Engineer

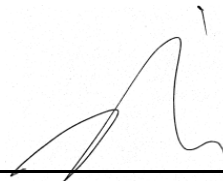
Operating condition : Tablet pc IC Card Reader Portable Mode



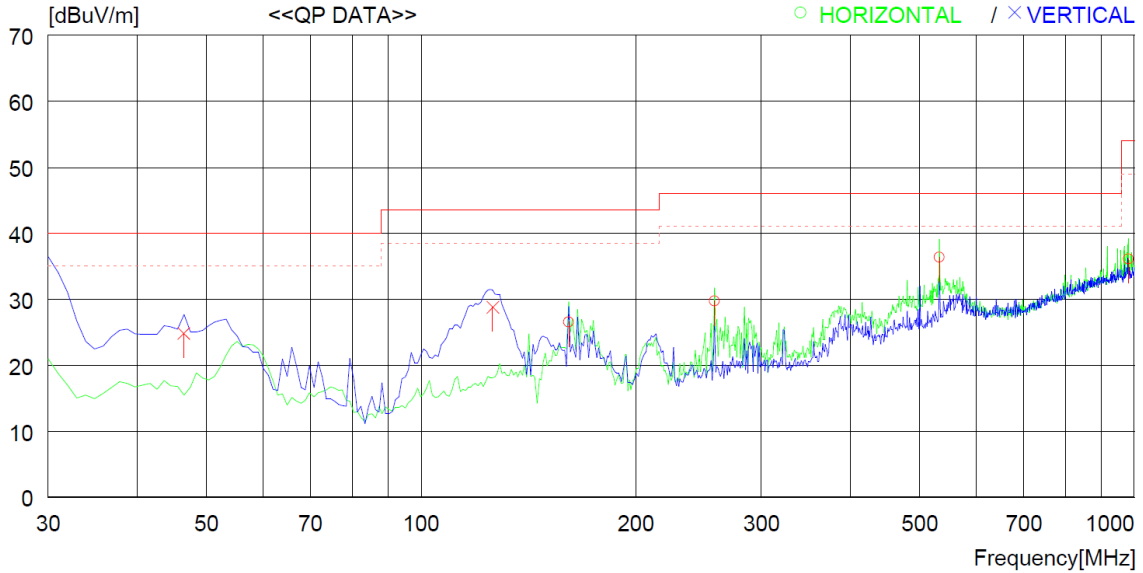
No.	FREQ [MHz]	READING [dBuV]	ANT QP FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	322.940	35.8	14.1	10.8	32.9	27.8	46.0	18.2	100	172
2	426.731	36.7	16.3	11.7	33.1	31.6	46.0	14.4	100	0
3	532.460	38.9	17.9	12.7	33.2	36.3	46.0	9.7	200	201
4	979.617	33.6	22.6	15.6	31.8	40.0	54.0	14.0	100	250
----- Vertical -----										
5	70.740	36.9	9.6	7.7	33.0	21.2	40.0	18.8	100	152
6	158.040	38.3	8.6	9.0	33.0	22.9	43.5	20.6	200	145

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBuV/m) - Emission Level (dBuV/m)


Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Barcord Reader Charging Mode



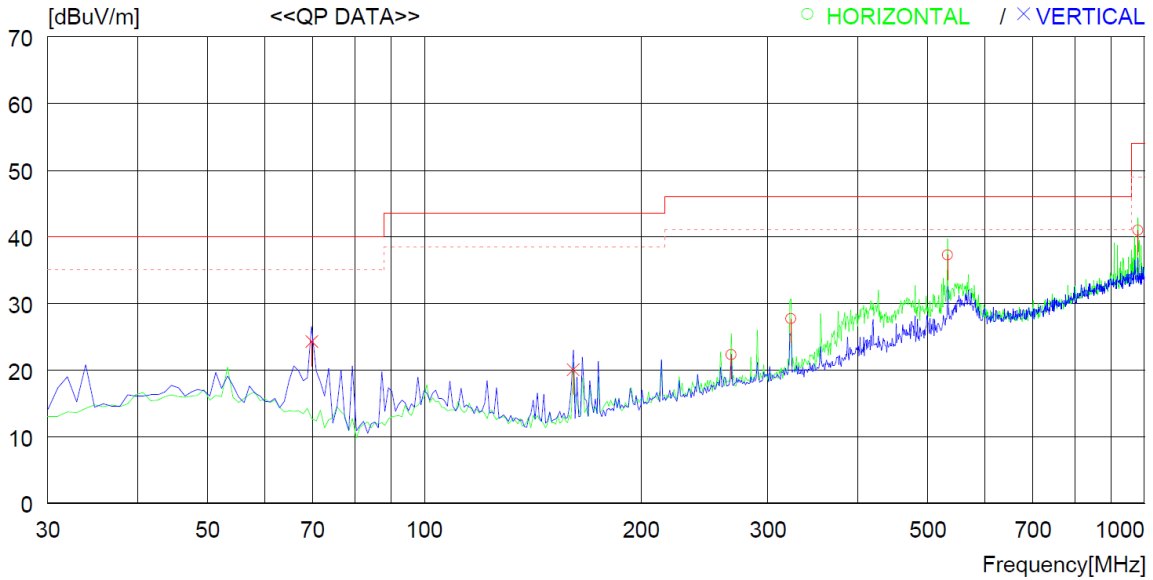
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	160.950	41.8	8.7	9.0	33.0	26.5	43.5	17.0	200	0
2	257.950	39.7	12.6	10.3	32.9	29.7	46.0	16.3	100	359
3	532.460	38.9	17.9	12.7	33.2	36.3	46.0	9.7	200	0
4	980.586	29.7	22.6	15.6	31.8	36.1	54.0	17.9	100	152
----- Vertical -----										
5	46.490	36.7	13.9	7.2	33.0	24.8	40.0	15.2	100	53
6	126.030	43.5	9.6	8.7	33.0	28.8	43.5	14.7	100	60

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Emission Level (dB}\mu\text{V/m)}$$

Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Barcord Reader Portable Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	266.680	32.1	12.8	10.3	32.9	22.3	46.0	23.7	100	150
2	322.940	35.7	14.1	10.8	32.9	27.7	46.0	18.3	100	192
3	532.460	39.8	17.9	12.7	33.2	37.2	46.0	8.8	200	359
4	979.617	34.5	22.6	15.6	31.8	40.9	54.0	13.1	100	200
----- Vertical -----										
5	69.770	39.8	9.8	7.7	33.0	24.3	40.0	15.7	100	359
6	160.950	35.3	8.7	9.0	33.0	20.0	43.5	23.5	100	160

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Emission Level (dB}\mu\text{V/m)}$$

Tested by: Jun-Hui, Lee/ Senior Engineer

8.4.1.2 Test data for Below 30 MHz


- Test Date : March 27, 2015
- Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- Frequency range : 9 kHz ~ 30 MHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.								

8.4.1.3 Test data for above 1 GHz

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.								

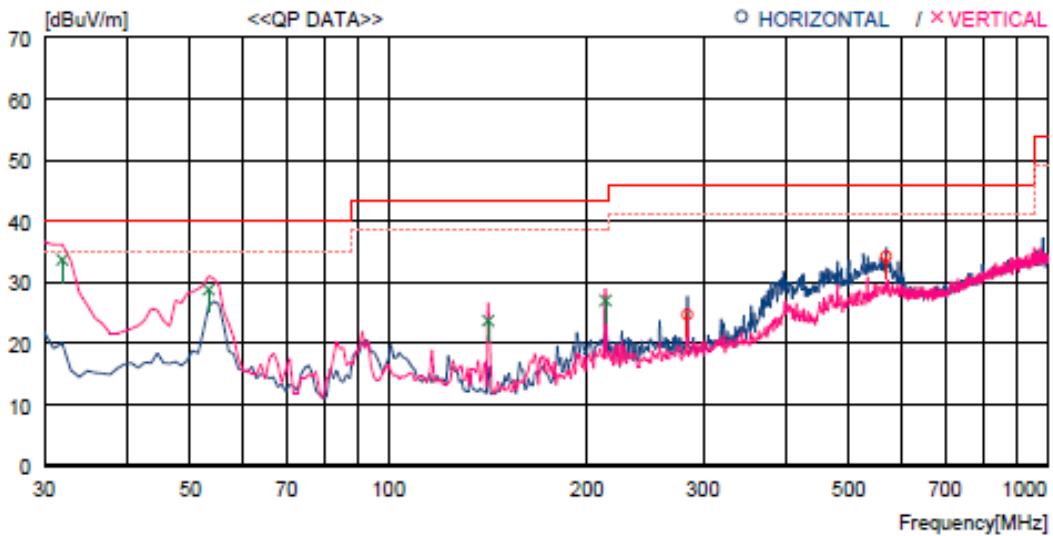


Tested by: Jun-Hui, Lee/ Senior Engineer

8.5 Test data for 802.11a WLAN Mode

Humidity Level : 44 % R.H. Temperature: 21.1 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247
 Result : PASSED

EUT : Premium Enterprise Tablet Date: March 27, 2015
 Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
 Operating condition : Tablet pc Charging Mode



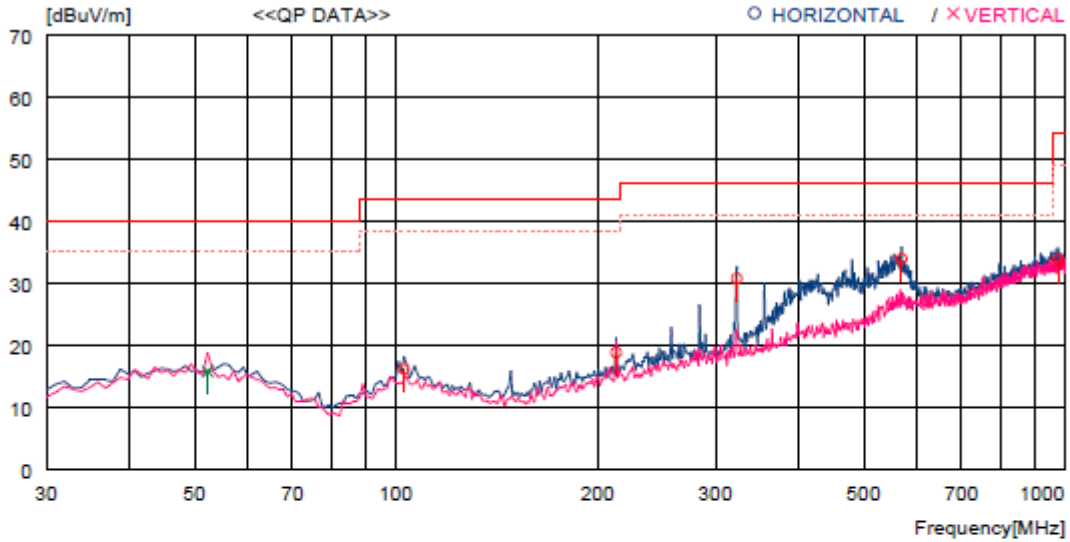
No.	FREQ [MHz]	READING QP [dBUV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBUV/m]	LIMIT [dBUV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	284.140	33.9	14.4	9.4	33.0	24.7	46.0	21.3	100	7
2	569.319	36.7	19.8	10.9	33.2	34.2	46.0	11.8	200	306
---- Vertical ----										
3	31.940	46.8	13.1	7.0	33.2	33.7	40.0	6.3	100	0
4	53.280	39.8	14.8	7.4	33.2	28.8	40.0	11.2	100	157
5	141.550	39.3	9.2	8.3	33.1	23.7	43.5	19.8	100	0
6	213.330	38.5	12.6	8.9	33.0	27.0	43.5	16.5	100	0

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

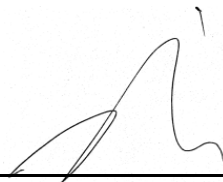
Operating condition : Tablet pc Portable Portable Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	102.750	27.9	13.4	8.0	33.1	16.2	43.5	27.3	400	326
2	213.330	30.3	12.6	8.9	33.0	18.8	43.5	24.7	100	359
3	322.940	38.8	15.3	9.6	33.0	30.7	46.0	15.3	100	359
4	569.319	36.4	19.8	10.9	33.2	33.9	46.0	12.1	200	31
5	975.737	28.9	23.9	12.7	31.8	33.7	54.0	20.3	200	151
---- Vertical ----										
6	52.310	26.7	14.9	7.4	33.2	15.8	40.0	24.2	400	273

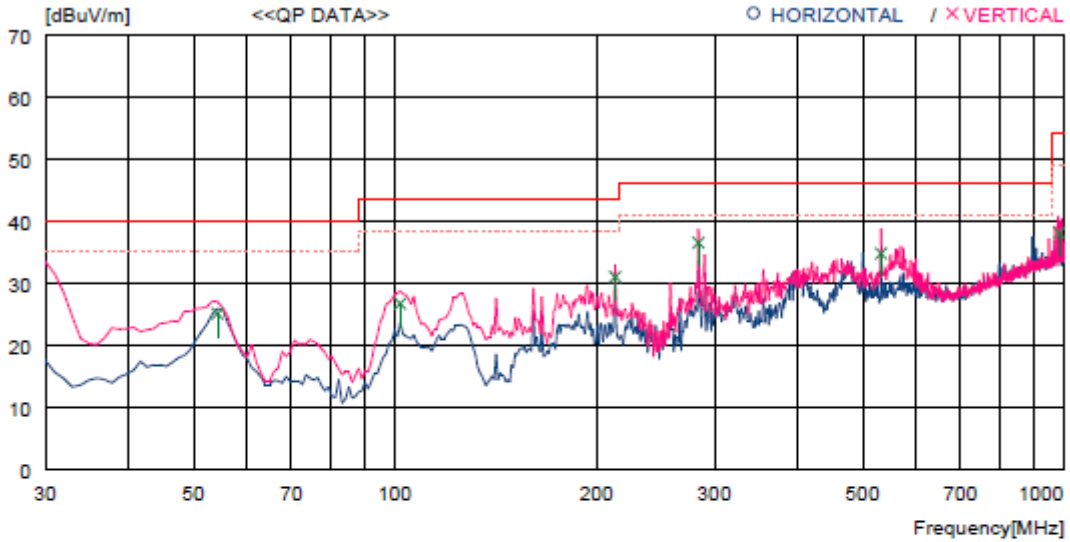
Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Emission Level (dB}\mu\text{V/m)}$$



Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Cradle Charging Mode



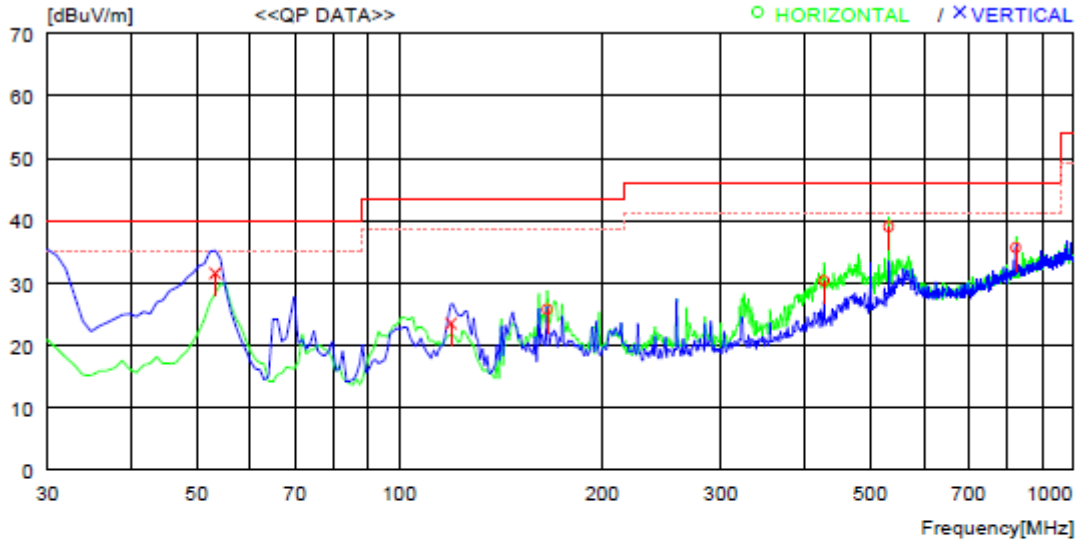
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Vertical ----										
1	54.250	38.2	14.7	7.4	33.2	25.1	40.0	14.9	100	0
2	101.780	38.3	13.5	8.0	33.1	26.7	43.5	16.8	100	81
3	213.330	42.5	12.8	8.9	33.0	31.0	43.5	12.5	100	0
4	284.140	45.7	14.4	9.4	33.0	36.5	48.0	9.5	200	152
5	532.460	38.1	19.1	10.8	33.2	34.8	46.0	11.2	100	0
6	982.526	33.2	24.0	12.7	31.8	38.1	54.0	15.9	100	0

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc IC Card Reader Charging Mode



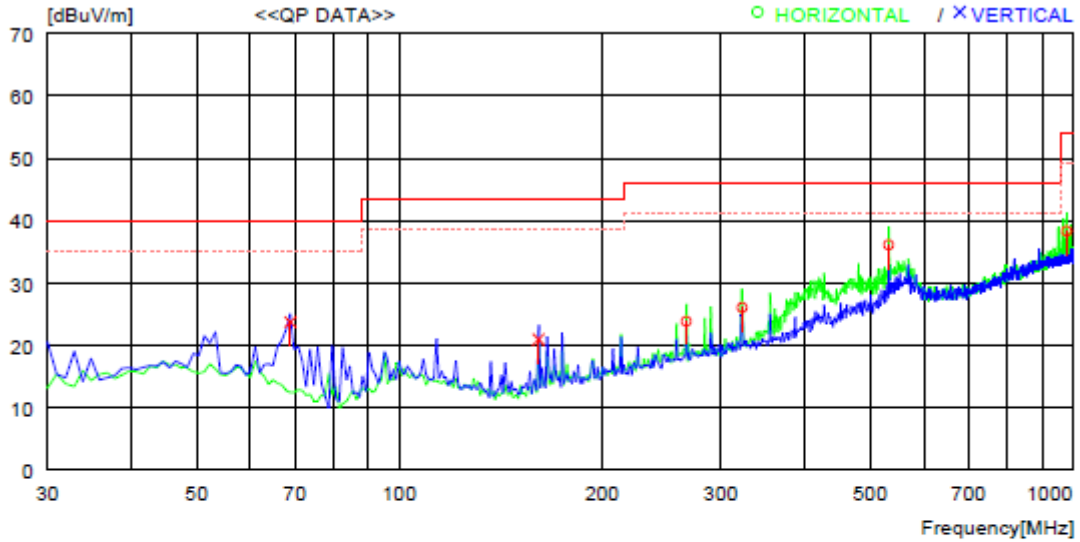
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	165.800	40.6	8.9	9.1	33.0	25.6	43.5	17.9	200	0
2	426.731	35.3	16.3	11.7	33.1	30.2	46.0	15.8	100	359
3	532.460	41.5	17.9	12.7	33.2	38.9	46.0	7.1	200	144
4	823.451	32.4	21.2	14.8	32.9	35.5	46.0	10.5	300	222
----- Vertical -----										
5	53.280	43.5	13.6	7.3	33.0	31.4	40.0	8.6	100	0
6	119.240	37.5	10.3	8.7	33.1	23.4	43.5	20.1	100	151

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

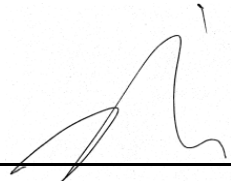
Operating condition : Tablet pc IC Card Reader Portable Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	266.680	33.5	12.8	10.3	32.9	23.7	46.0	22.3	100	0
2	322.940	33.9	14.1	10.8	32.9	25.9	46.0	20.1	100	0
3	532.460	38.6	17.9	12.7	33.2	36.0	46.0	10.0	200	194
4	979.617	31.8	22.6	15.6	31.8	38.2	54.0	15.8	100	60
----- Vertical -----										
5	68.800	38.7	10.2	7.7	33.0	23.6	40.0	16.4	100	359
6	160.950	36.1	8.7	9.0	33.0	20.8	43.5	22.7	100	359

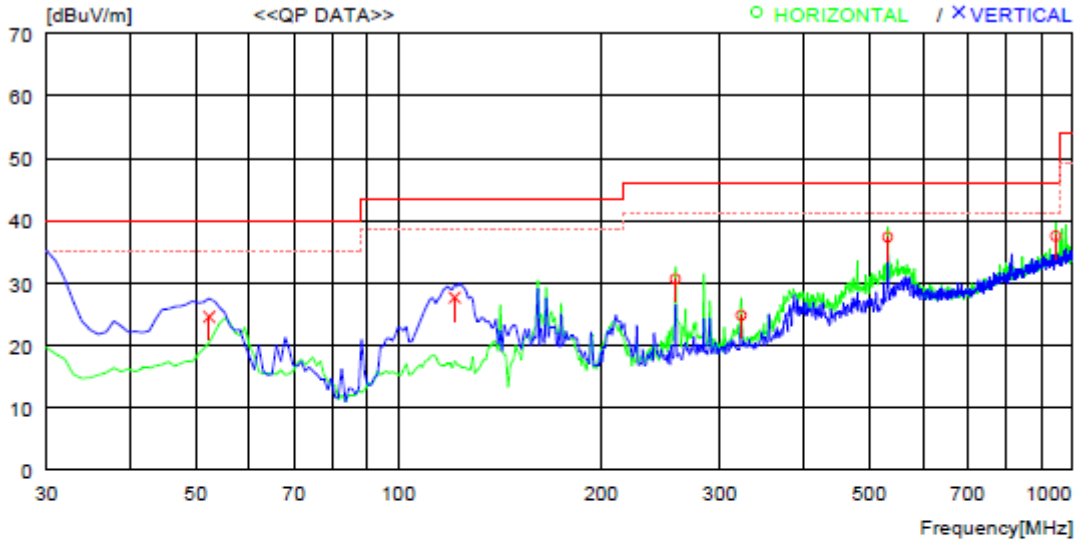
Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)



Tested by: Jun-Hui, Lee/ Senior Engineer

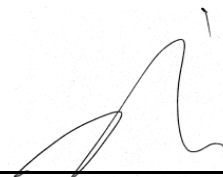
Operating condition : Tablet pc Barcord Reader Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	257.950	40.5	12.6	10.3	32.9	30.5	46.0	15.5	100	181
2	322.940	32.7	14.1	10.8	32.9	24.7	46.0	21.3	100	181
3	532.460	39.8	17.9	12.7	33.2	37.2	46.0	8.8	200	87
4	947.607	31.5	22.5	15.4	32.0	37.4	46.0	8.6	100	359
---- Vertical ----										
5	52.310	36.5	13.6	7.3	33.0	24.4	40.0	15.6	100	0
6	121.180	41.8	10.1	8.7	33.1	27.5	43.5	16.0	100	0

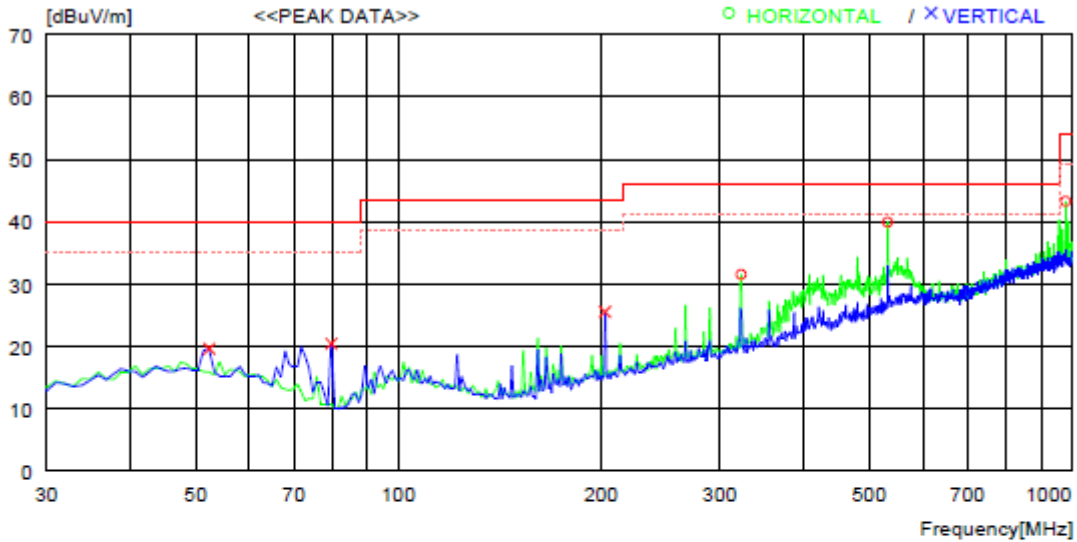
Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)



Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Barcord Reader Portable Mode



No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	322.940	39.4	14.1	10.8	32.9	31.4	46.0	14.6	100	193
2	532.460	42.4	17.9	12.7	33.2	39.8	46.0	6.2	200	359
3	979.617	36.7	22.6	15.6	31.8	43.1	54.0	10.9	100	0
---- Vertical ----										
4	52.310	31.6	13.6	7.3	33.0	19.5	40.0	20.5	300	359
5	79.470	38.0	7.6	7.8	33.1	20.3	40.0	19.7	200	18
6	202.660	37.9	10.8	9.6	32.9	25.4	43.5	18.1	400	130

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

8.4.1.2 Test data for Below 30 MHz

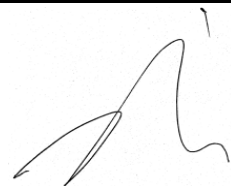
- Test Date : March 27, 2015
- Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- Frequency range : 9 kHz ~ 30 MHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.								

8.4.1.3 Test data for above 1 GHz

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.								

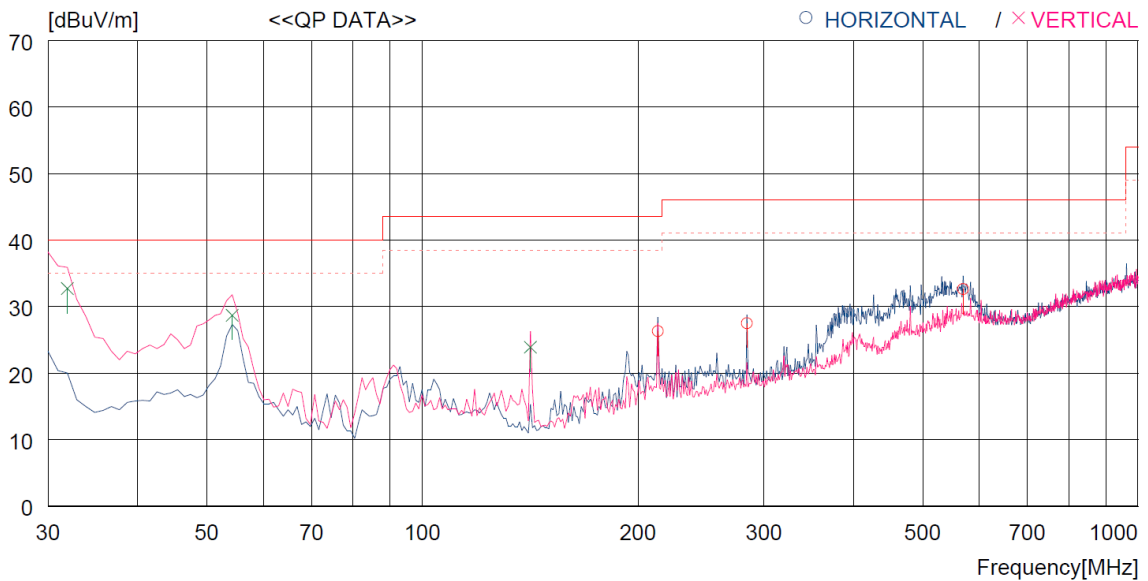


Tested by: Jun-Hui, Lee/ Senior Engineer

8.6 Test data for Bluetooth LE Mode

Humidity Level : 44 % R.H. Temperature: 21.1 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247
 Result : PASSED

EUT : Premium Enterprise Tablet Date: March 27, 2015
 Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
 Operating condition : Tablet pc Charging Mode



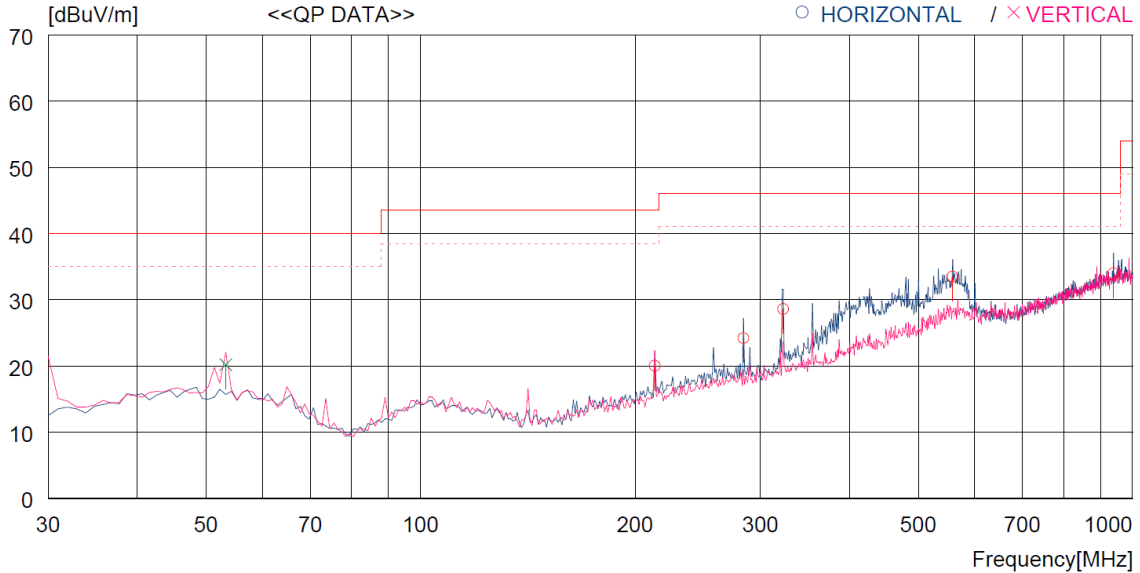
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	213.330	37.8	12.6	8.9	33.0	26.3	43.5	17.2	200	271
2	284.140	36.7	14.4	9.4	33.0	27.5	46.0	18.5	200	18
3	569.319	35.1	19.8	10.9	33.2	32.6	46.0	13.4	200	46
----- Vertical -----										
4	31.940	45.8	13.1	7.0	33.2	32.7	40.0	7.3	100	2
5	54.250	39.8	14.7	7.4	33.2	28.7	40.0	11.3	100	272
6	141.550	39.5	9.2	8.3	33.1	23.9	43.5	19.6	100	359

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hu`i, Lee/ Senior Engineer

Operating condition : Tablet pc Portable Portable Mode



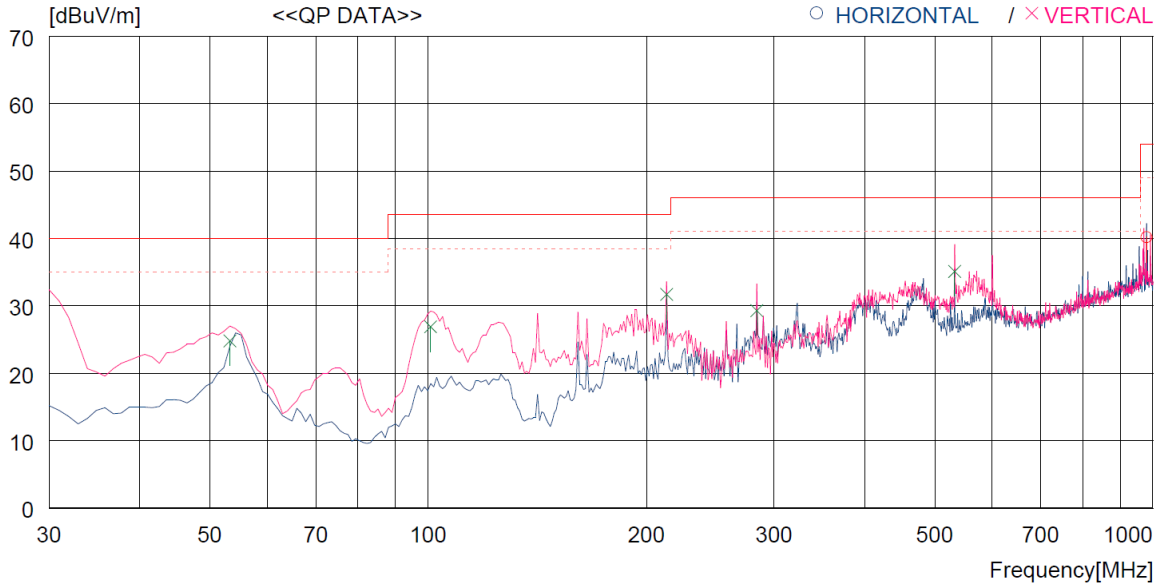
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	213.330	31.5	12.6	8.9	33.0	20.0	43.5	23.5	200	0
2	284.140	33.4	14.4	9.4	33.0	24.2	46.0	21.8	100	359
3	322.940	36.7	15.3	9.6	33.0	28.6	46.0	17.4	100	173
4	558.649	36.3	19.5	10.9	33.2	33.5	46.0	12.5	200	0
5	939.848	29.8	23.7	12.6	32.1	34.0	46.0	12.0	100	359
----- Vertical -----										
6	53.280	31.2	14.8	7.4	33.2	20.2	40.0	19.8	290	0

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Cradle Charging Mode



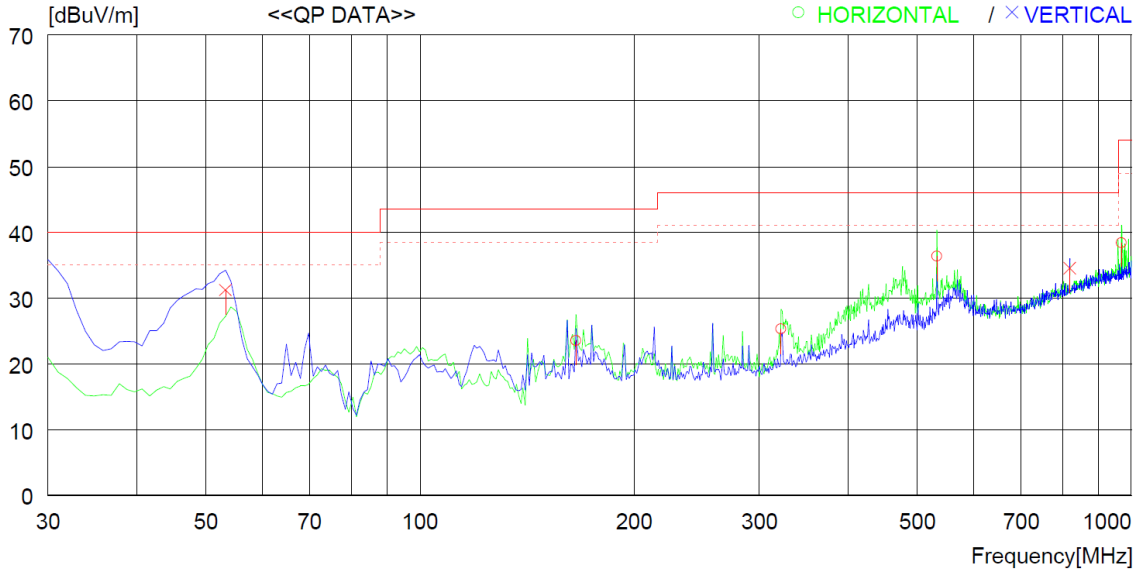
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	979.617	35.3	24.0	12.7	31.8	40.2	54.0	13.8	111	0
----- Vertical -----										
2	53.280	35.8	14.8	7.4	33.2	24.8	40.0	15.2	100	265
3	100.810	38.4	13.6	8.0	33.1	26.9	43.5	16.6	100	124
4	213.330	43.2	12.6	8.9	33.0	31.7	43.5	11.8	100	357
5	284.140	38.5	14.4	9.4	33.0	29.3	46.0	16.7	111	359
6	532.460	38.4	19.1	10.8	33.2	35.1	46.0	10.9	100	89

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer


Operating condition : Tablet pc IC Card Reader Charging Mode



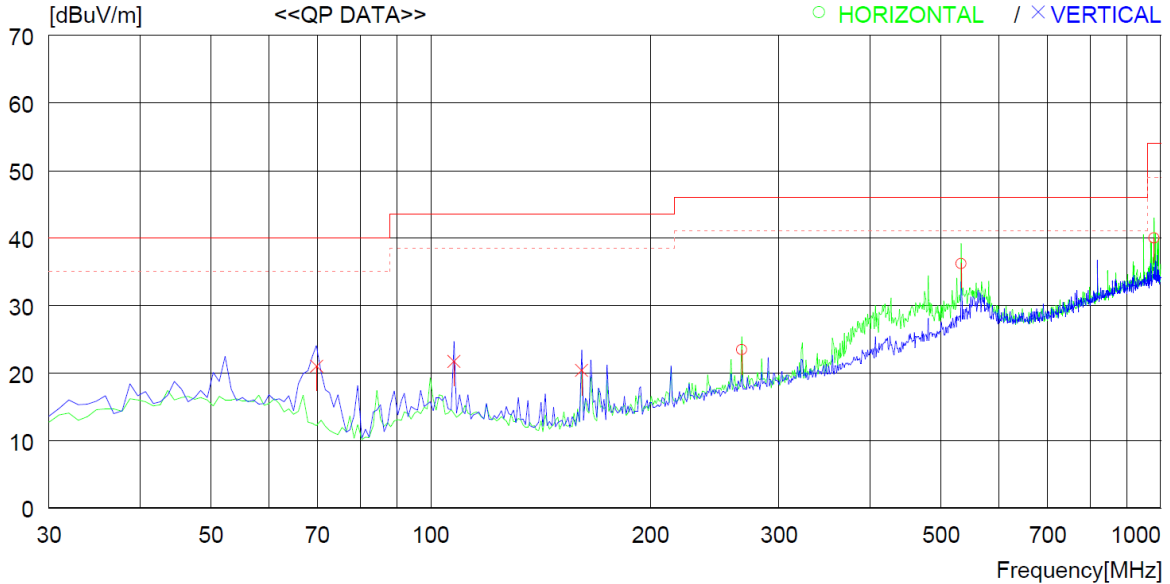
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	165.800	38.5	8.9	9.1	33.0	23.5	43.5	20.0	200	359
2	321.970	33.3	14.1	10.8	32.9	25.3	46.0	20.7	100	0
3	532.460	38.9	17.9	12.7	33.2	36.3	46.0	9.7	200	359
4	967.977	32.3	22.5	15.5	31.9	38.4	54.0	15.6	100	0
----- Vertical -----										
5	53.280	43.3	13.6	7.3	33.0	31.2	40.0	8.8	100	359
6	819.571	31.5	21.1	14.8	32.9	34.5	46.0	11.5	400	0

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)


Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc IC Card Reader Portable Mode



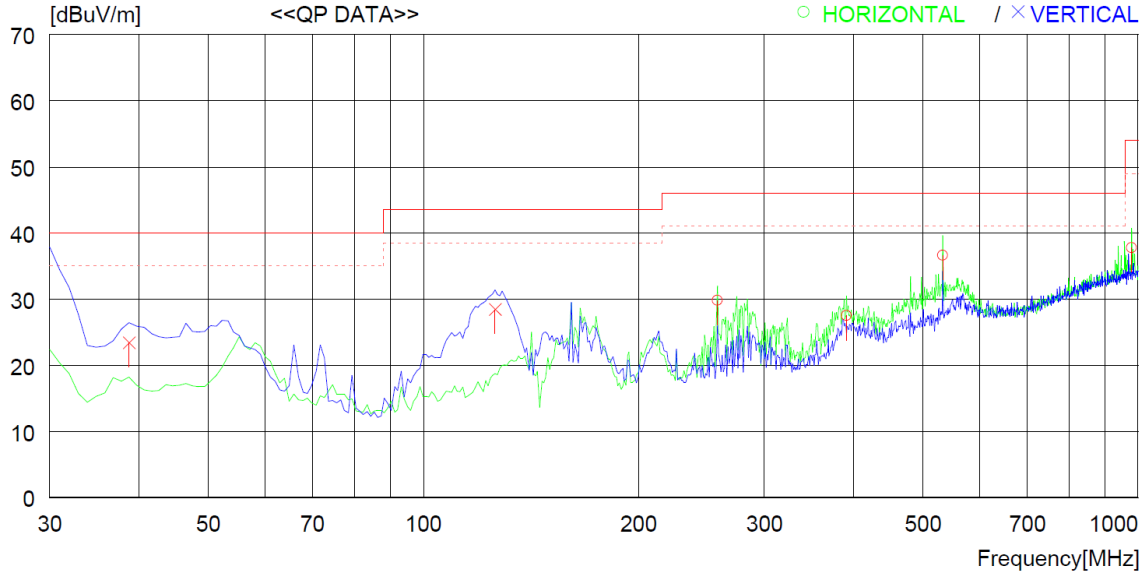
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	266.680	33.2	12.8	10.3	32.9	23.4	46.0	22.6	100	0
2	532.460	38.8	17.9	12.7	33.2	36.2	46.0	9.8	200	201
3	979.617	33.6	22.6	15.6	31.8	40.0	54.0	14.0	100	0
----- Vertical -----										
4	69.770	36.5	9.8	7.7	33.0	21.0	40.0	19.0	200	102
5	107.600	35.1	11.3	8.4	33.1	21.7	43.5	21.8	100	131
6	160.950	35.7	8.7	9.0	33.0	20.4	43.5	23.1	100	90

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Barcord Reader Charging Mode



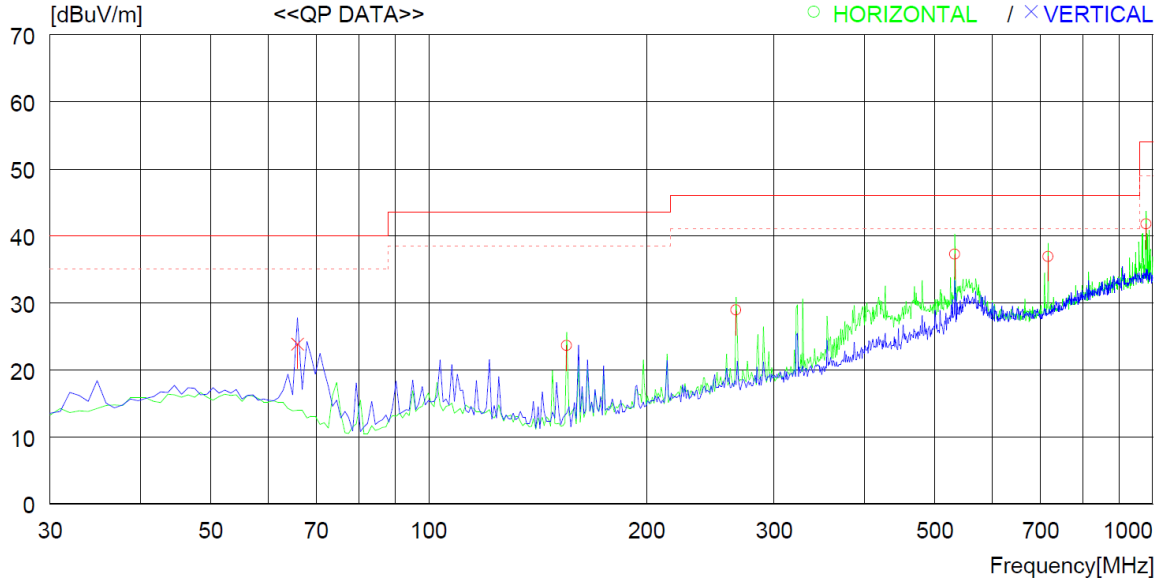
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	257.950	39.8	12.6	10.3	32.9	29.8	46.0	16.2	100	188
2	390.840	33.5	15.7	11.3	33.0	27.5	46.0	18.5	100	359
3	532.460	39.2	17.9	12.7	33.2	36.6	46.0	9.4	200	116
4	979.617	31.3	22.6	15.6	31.8	37.7	54.0	16.3	100	359
----- Vertical -----										
5	38.730	36.3	13.0	7.1	33.0	23.4	40.0	16.6	100	243
6	126.030	43.1	9.6	8.7	33.0	28.4	43.5	15.1	100	0

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Emission Level (dB}\mu\text{V/m)}$$

Tested by: Jun-Hui, Lee/ Senior Engineer

Operating condition : Tablet pc Barcord Reader Portable Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	155.130	39.1	8.5	9.0	33.0	23.6	43.5	19.9	200	116
2	265.710	38.7	12.8	10.3	32.9	28.9	46.0	17.1	200	116
3	532.460	39.8	17.9	12.7	33.2	37.2	46.0	8.8	200	0
4	716.754	36.3	19.9	13.9	33.2	36.9	46.0	9.1	200	109
5	979.617	35.3	22.6	15.6	31.8	41.7	54.0	12.3	100	359
----- Vertical -----										
6	65.890	38.1	11.2	7.5	33.0	23.8	40.0	16.2	100	39

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

Tested by: Jun-Hui, Lee/ Senior Engineer

8.5.1.2 Test data for Below 30 MHz

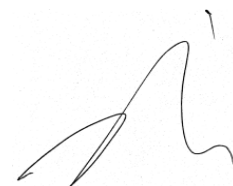
- Test Date : March 27, 2015
- Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- Frequency range : 9 kHz ~ 30 MHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.								

8.5.1.3 Test data for above 1 GHz

- Test Date : March 27, 2015
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.								



Tested by: Jun-Hui, Lee/ Senior Engineer

9. CONDUCTED EMISSION TEST

9.1 Operating environment

Temperature : 27 °C
 Relative humidity : 46 % R.H.

9.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μH + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

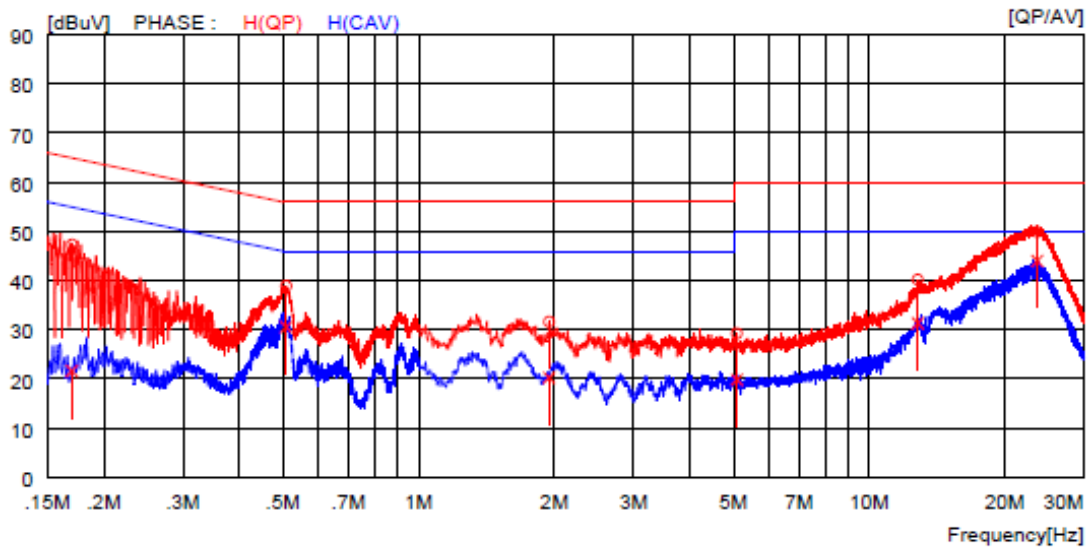
9.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ -	ESCI	Rohde & Schwarz	EMI Test Receiver	101012	Nov. 03, 2014 (1Y)
■ -	NSLK 8128	Schwarzbeck	LISN	8128-216	Apr. 11, 2014 (1Y)
□ -	3825/2	EMCO	LISN	9109-1867	Apr. 29, 2014 (1Y)

All test equipment used is calibrated on a regular basis.

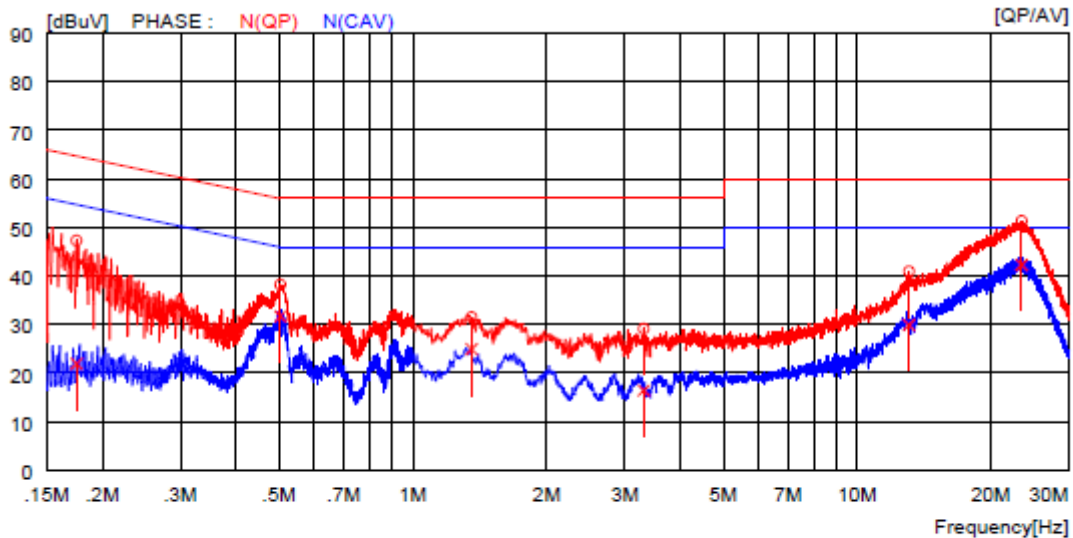
9.4 Test data for 802.11b WLAN Mode

- Test Date : March 27, 2015
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Operating condition : Tablet pc Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17000	37.4	----	9.9	47.3	----	65.0	----	17.7	----	H(QP)
2	0.50800	28.9	----	10.0	38.9	----	56.0	----	17.1	----	H(QP)
3	1.94800	21.6	----	10.0	31.6	----	56.0	----	24.4	----	H(QP)
4	5.09000	19.2	----	10.0	29.2	----	60.0	----	30.8	----	H(QP)
5	12.83000	30.0	----	10.2	40.2	----	60.0	----	19.8	----	H(QP)
6	23.62000	39.7	----	10.2	49.9	----	60.0	----	10.1	----	H(QP)
7	0.17000	----	11.7	9.9	----	21.6	----	55.0	----	33.4	H(CAV)
8	0.50800	----	20.5	10.0	----	30.5	----	46.0	----	15.5	H(CAV)
9	1.94800	----	10.2	10.0	----	20.2	----	46.0	----	25.8	H(CAV)
10	5.09000	----	9.8	10.0	----	19.8	----	50.0	----	30.2	H(CAV)
11	12.83000	----	21.1	10.2	----	31.3	----	50.0	----	18.7	H(CAV)
12	23.62000	----	33.8	10.2	----	44.0	----	50.0	----	6.0	H(CAV)

- Test Line : NEUTRAL LINE



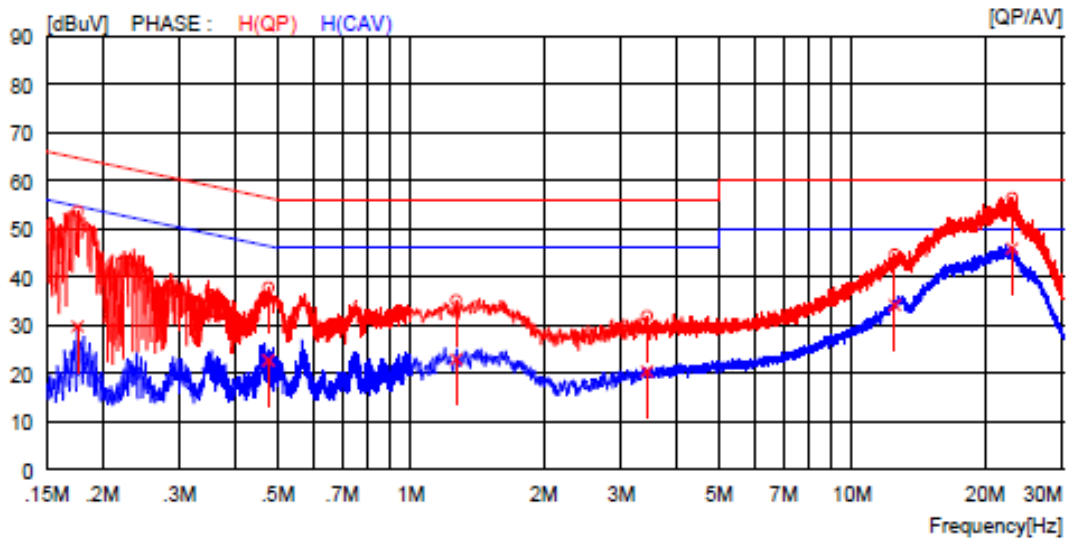
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17500	37.4	----	9.9	47.3	----	64.7	----	17.4	----	N (QP)
2	0.50300	28.2	----	10.0	38.2	----	56.0	----	17.8	----	N (QP)
3	1.35600	21.5	----	10.0	31.5	----	56.0	----	24.5	----	N (QP)
4	3.30800	19.1	----	10.0	29.1	----	56.0	----	26.9	----	N (QP)
5	13.09000	30.7	----	10.2	40.9	----	60.0	----	19.1	----	N (QP)
6	23.48000	41.1	----	10.2	51.3	----	60.0	----	8.7	----	N (QP)
7	0.17500	----	12.0	9.9	----	21.9	----	54.7	----	32.8	N (CAV)
8	0.50300	----	21.7	10.0	----	31.7	----	46.0	----	14.3	N (CAV)
9	1.35600	----	14.9	10.0	----	24.9	----	46.0	----	21.1	N (CAV)
10	3.30800	----	6.4	10.0	----	16.4	----	46.0	----	29.6	N (CAV)
11	13.09000	----	19.7	10.2	----	29.9	----	50.0	----	20.1	N (CAV)
12	23.48000	----	32.1	10.2	----	42.3	----	50.0	----	7.7	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

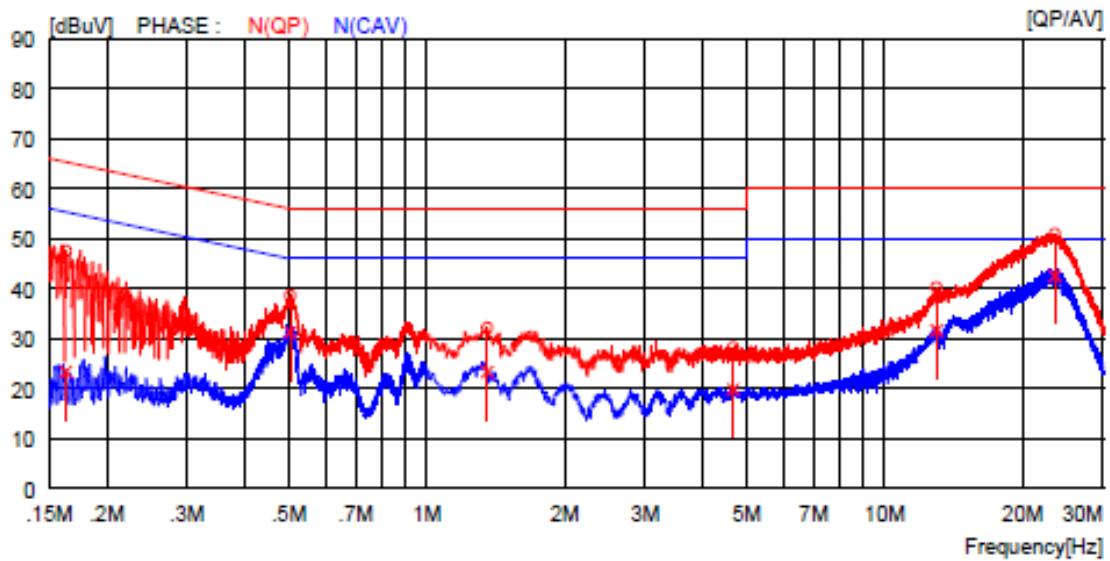
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc Cradle Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17600	43.7	----	9.9	53.6	----	64.7	----	11.1	----	H(QP)
2	0.47600	27.8	----	10.0	37.8	----	56.4	----	18.6	----	H(QP)
3	1.26800	25.1	----	10.0	35.1	----	56.0	----	20.9	----	H(QP)
4	3.42800	21.9	----	10.0	31.9	----	56.0	----	24.1	----	H(QP)
5	12.48000	34.5	----	10.2	44.7	----	60.0	----	15.3	----	H(QP)
6	23.04000	46.2	----	10.2	56.4	----	60.0	----	3.6	----	H(QP)
7	0.17600	----	19.8	9.9	----	29.7	----	54.7	----	25.0	H(CAV)
8	0.47600	----	12.7	10.0	----	22.7	----	46.4	----	23.7	H(CAV)
9	1.26800	----	12.9	10.0	----	22.9	----	46.0	----	23.1	H(CAV)
10	3.42800	----	10.4	10.0	----	20.4	----	46.0	----	25.6	H(CAV)
11	12.48000	----	23.9	10.2	----	34.1	----	50.0	----	15.9	H(CAV)
12	23.04000	----	35.7	10.2	----	45.9	----	50.0	----	4.1	H(CAV)

-. Tested Line : NEUTRAL LINE



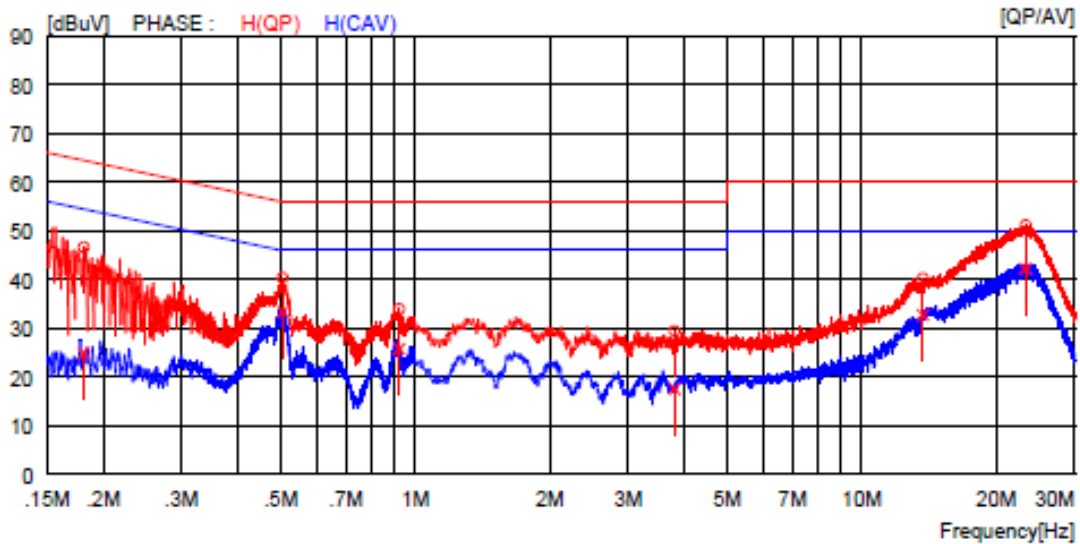
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16300	37.6	----	9.9	47.5	----	65.3	----	17.8	----	N (QP)
2	0.50300	28.6	----	10.0	38.6	----	56.0	----	17.4	----	N (QP)
3	1.35600	22.1	----	10.0	32.1	----	56.0	----	23.9	----	N (QP)
4	4.66800	18.2	----	10.0	28.2	----	56.0	----	27.8	----	N (QP)
5	12.97000	30.0	----	10.2	40.2	----	60.0	----	19.8	----	N (QP)
6	23.55000	40.7	----	10.2	50.9	----	60.0	----	9.1	----	N (QP)
7	0.16300	----	13.4	9.9	----	23.3	----	55.3	----	32.0	N (CAV)
8	0.50300	----	21.2	10.0	----	31.2	----	46.0	----	14.8	N (CAV)
9	1.35600	----	13.3	10.0	----	23.3	----	46.0	----	22.7	N (CAV)
10	4.66800	----	9.8	10.0	----	19.8	----	46.0	----	26.2	N (CAV)
11	12.97000	----	21.4	10.2	----	31.6	----	50.0	----	18.4	N (CAV)
12	23.55000	----	32.3	10.2	----	42.5	----	50.0	----	7.5	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

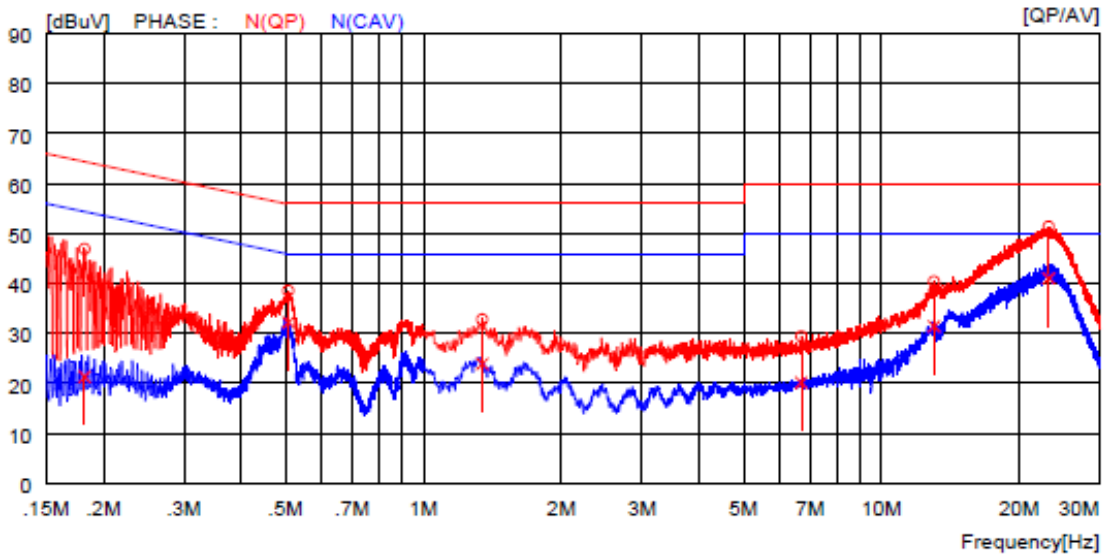
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc IC Card Reader Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18100	36.7	----	9.9	46.6	----	64.4	----	17.8	----	H (QP)
2	0.50500	30.3	----	10.0	40.3	----	56.0	----	15.7	----	H (QP)
3	0.92100	23.9	----	10.0	33.9	----	56.0	----	22.1	----	H (QP)
4	3.80800	19.4	----	10.0	29.4	----	56.0	----	26.6	----	H (QP)
5	13.69000	30.0	----	10.2	40.2	----	60.0	----	19.8	----	H (QP)
6	23.27000	40.9	----	10.2	51.1	----	60.0	----	8.9	----	H (QP)
7	0.18100	----	15.0	9.9	----	24.9	----	54.4	----	29.5	H (CAV)
8	0.50500	----	23.4	10.0	----	33.4	----	46.0	----	12.6	H (CAV)
9	0.92100	----	15.7	10.0	----	25.7	----	46.0	----	20.3	H (CAV)
10	3.80800	----	7.5	10.0	----	17.5	----	46.0	----	28.5	H (CAV)
11	13.69000	----	22.5	10.2	----	32.7	----	50.0	----	17.3	H (CAV)
12	23.27000	----	32.0	10.2	----	42.2	----	50.0	----	7.8	H (CAV)

- Test Line : NEUTRAL LINE



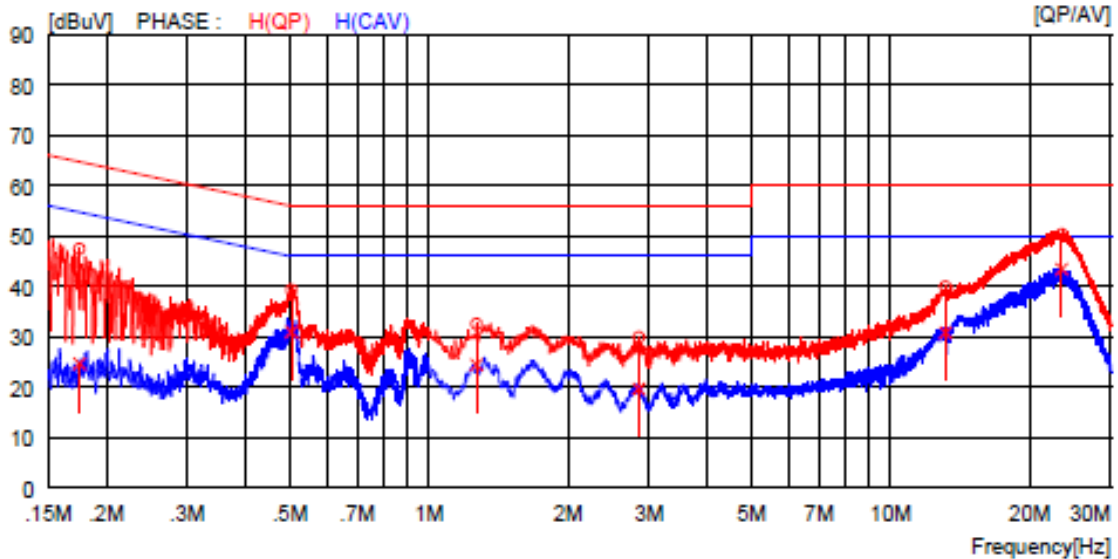
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18200	37.0	----	9.9	46.9	----	64.4	----	17.5	----	N(QP)
2	0.50700	28.5	----	10.0	38.5	----	56.0	----	17.5	----	N(QP)
3	1.34400	22.8	----	10.0	32.8	----	56.0	----	23.2	----	N(QP)
4	6.68500	19.4	----	10.0	29.4	----	60.0	----	30.6	----	N(QP)
5	13.03000	30.2	----	10.2	40.4	----	60.0	----	19.6	----	N(QP)
6	23.20000	41.2	----	10.2	51.4	----	60.0	----	8.6	----	N(QP)
7	0.18200	----	11.4	9.9	----	21.3	----	54.4	----	33.1	N(CAV)
8	0.50700	----	22.2	10.0	----	32.2	----	46.0	----	13.8	N(CAV)
9	1.34400	----	13.9	10.0	----	23.9	----	46.0	----	22.1	N(CAV)
10	6.68500	----	10.1	10.0	----	20.1	----	50.0	----	29.9	N(CAV)
11	13.03000	----	21.2	10.2	----	31.4	----	50.0	----	18.6	N(CAV)
12	23.20000	----	30.8	10.2	----	41.0	----	50.0	----	9.0	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

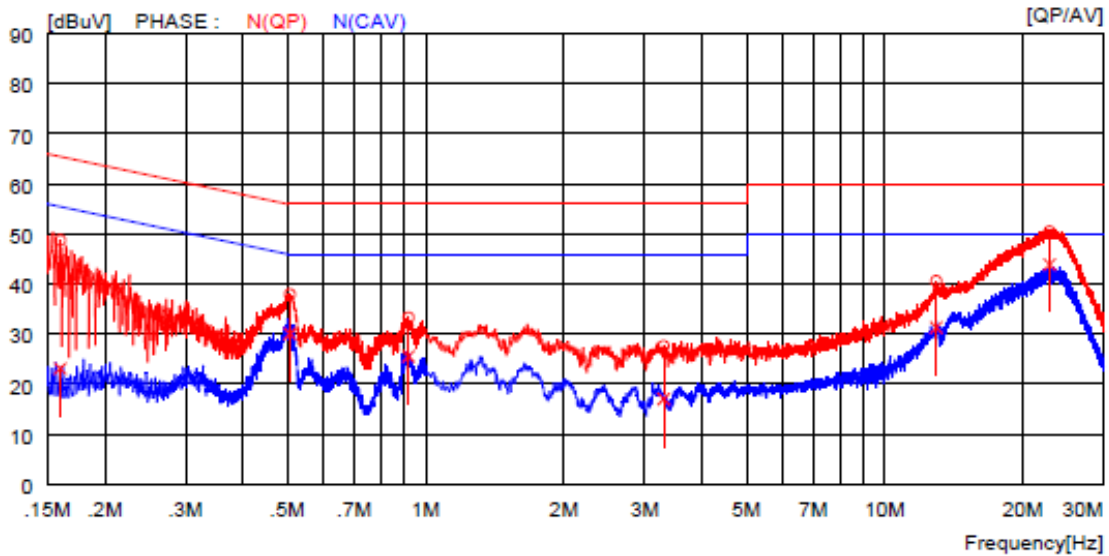
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc Barcord Reader Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17500	37.5	----	9.9	47.4	----	64.7	----	17.3	----	H (QP)
2	0.50400	29.2	----	10.0	39.2	----	56.0	----	16.8	----	H (QP)
3	1.26800	22.5	----	10.0	32.5	----	56.0	----	23.5	----	H (QP)
4	2.84800	19.9	----	10.0	29.9	----	56.0	----	26.1	----	H (QP)
5	13.14000	29.7	----	10.2	39.9	----	60.0	----	20.1	----	H (QP)
6	23.47000	40.1	----	10.2	50.3	----	60.0	----	9.7	----	H (QP)
7	0.17500	----	14.7	9.9	----	24.6	----	54.7	----	30.1	H (CAV)
8	0.50400	----	20.9	10.0	----	30.9	----	46.0	----	15.1	H (CAV)
9	1.26800	----	14.4	10.0	----	24.4	----	46.0	----	21.6	H (CAV)
10	2.84800	----	9.6	10.0	----	19.6	----	46.0	----	26.4	H (CAV)
11	13.14000	----	20.6	10.2	----	30.8	----	50.0	----	19.2	H (CAV)
12	23.47000	----	33.2	10.2	----	43.4	----	50.0	----	6.6	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16000	38.8	----	9.9	48.7	----	65.5	----	16.8	----	N (QP)
2	0.50600	27.9	----	10.0	37.9	----	56.0	----	18.1	----	N (QP)
3	0.91800	23.3	----	10.0	33.3	----	56.0	----	22.7	----	N (QP)
4	3.30000	17.6	----	10.0	27.6	----	56.0	----	28.4	----	N (QP)
5	12.96000	30.4	----	10.2	40.6	----	60.0	----	19.4	----	N (QP)
6	22.88000	40.3	----	10.2	50.5	----	60.0	----	9.5	----	N (QP)
7	0.16000	----	13.2	9.9	----	23.1	----	55.5	----	32.4	N (CAV)
8	0.50600	----	20.0	10.0	----	30.0	----	46.0	----	16.0	N (CAV)
9	0.91800	----	15.5	10.0	----	25.5	----	46.0	----	20.5	N (CAV)
10	3.30000	----	7.0	10.0	----	17.0	----	46.0	----	29.0	N (CAV)
11	12.96000	----	21.1	10.2	----	31.3	----	50.0	----	18.7	N (CAV)
12	22.88000	----	33.7	10.2	----	43.9	----	50.0	----	6.1	N (CAV)

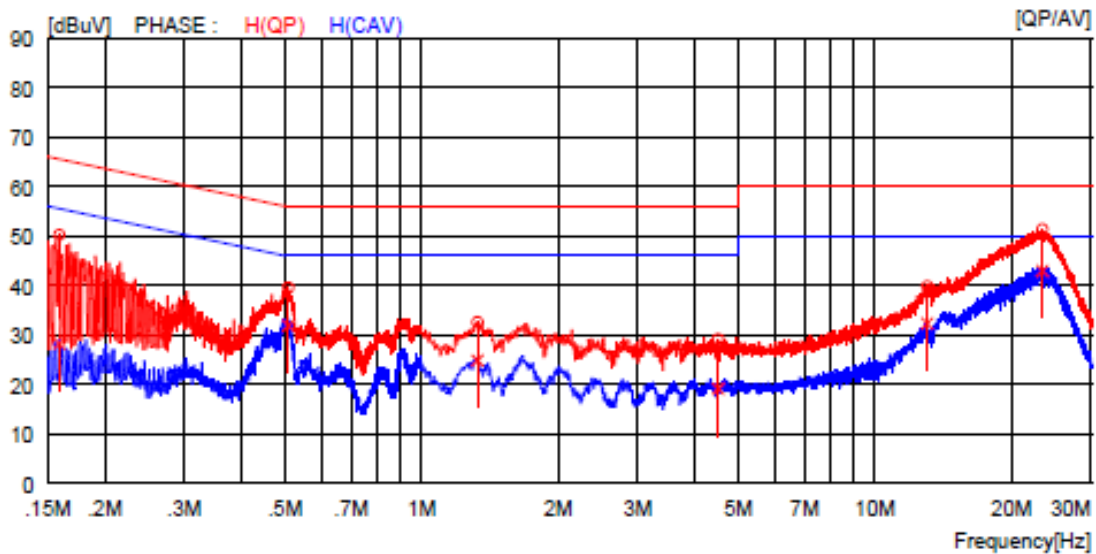
Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

Tested by: Jun-Hui, Lee/ Senior Engineer

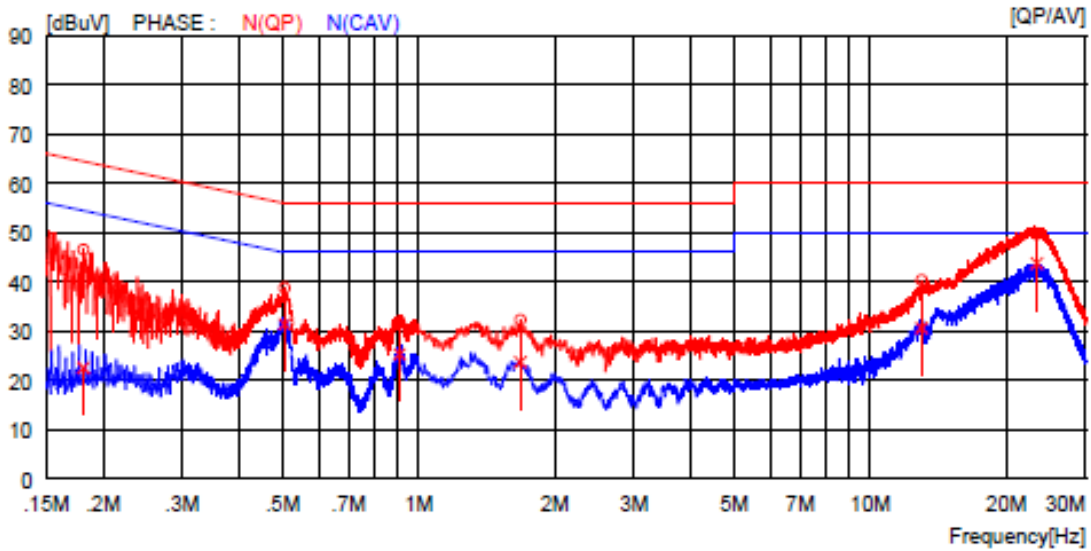
9.5 Test data for 802.11a WLAN Mode

- . Test Date : March 27, 2015
- . Resolution bandwidth : 9 kHz
- . Frequency range : 0.15 MHz ~ 30 MHz
- . Operating condition : Tablet pc Charging Mode
- . Tested Line : HOT LINE



NO	FRBQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15900	40.3	----	9.9	50.2	----	65.5	----	15.3	----	H (QP)
2	0.50800	29.5	----	10.0	39.5	----	56.0	----	16.5	----	H (QP)
3	1.32800	22.6	----	10.0	32.6	----	56.0	----	23.4	----	H (QP)
4	4.51200	19.1	----	10.0	29.1	----	56.0	----	26.9	----	H (QP)
5	13.04000	29.6	----	10.2	39.8	----	60.0	----	20.2	----	H (QP)
6	23.39000	41.1	----	10.2	51.3	----	60.0	----	8.7	----	H (QP)
7	0.15900	----	18.3	9.9	----	28.2	----	55.5	----	27.3	H (CAV)
8	0.50800	----	21.8	10.0	----	31.8	----	46.0	----	14.2	H (CAV)
9	1.32800	----	14.8	10.0	----	24.8	----	46.0	----	21.2	H (CAV)
10	4.51200	----	9.1	10.0	----	19.1	----	46.0	----	26.9	H (CAV)
11	13.04000	----	22.1	10.2	----	32.3	----	50.0	----	17.7	H (CAV)
12	23.39000	----	32.7	10.2	----	42.9	----	50.0	----	7.1	H (CAV)

-. Tested Line : NEUTRAL LINE



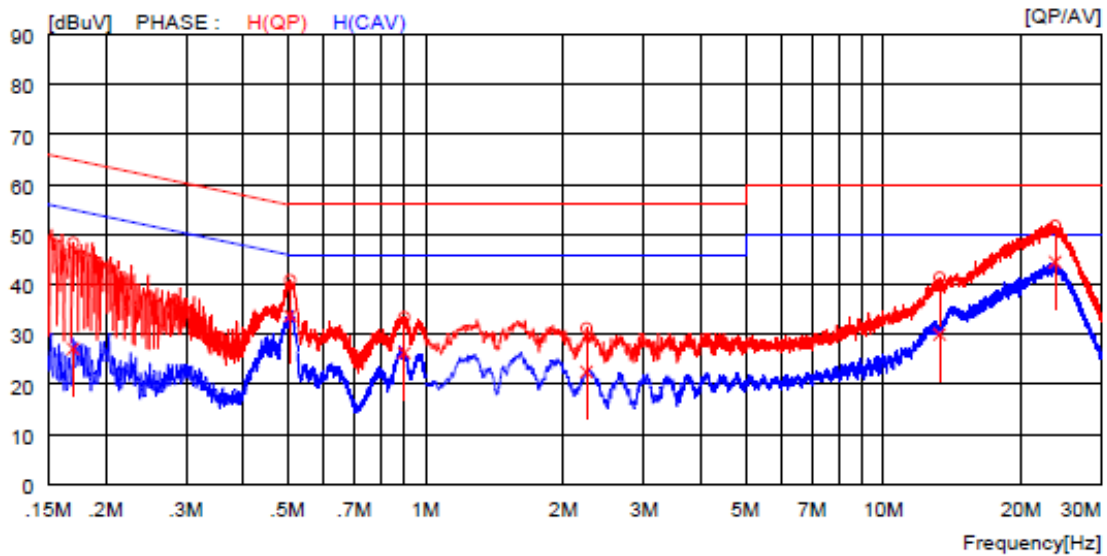
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18100	36.6	----	9.9	46.5	----	64.4	----	17.9	----	N (QP)
2	0.50500	28.7	----	10.0	38.7	----	56.0	----	17.3	----	N (QP)
3	0.90700	21.8	----	10.0	31.8	----	56.0	----	24.2	----	N (QP)
4	1.68000	22.2	----	10.0	32.2	----	56.0	----	23.8	----	N (QP)
5	12.99000	30.1	----	10.2	40.3	----	60.0	----	19.7	----	N (QP)
6	23.36000	39.5	----	10.2	49.7	----	60.0	----	10.3	----	N (QP)
7	0.18100	----	12.6	9.9	----	22.5	----	54.4	----	31.9	N (CAV)
8	0.50500	----	21.4	10.0	----	31.4	----	46.0	----	14.6	N (CAV)
9	0.90700	----	15.3	10.0	----	25.3	----	46.0	----	20.7	N (CAV)
10	1.68000	----	13.7	10.0	----	23.7	----	46.0	----	22.3	N (CAV)
11	12.99000	----	20.4	10.2	----	30.6	----	50.0	----	19.4	N (CAV)
12	23.36000	----	33.5	10.2	----	43.7	----	50.0	----	6.3	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

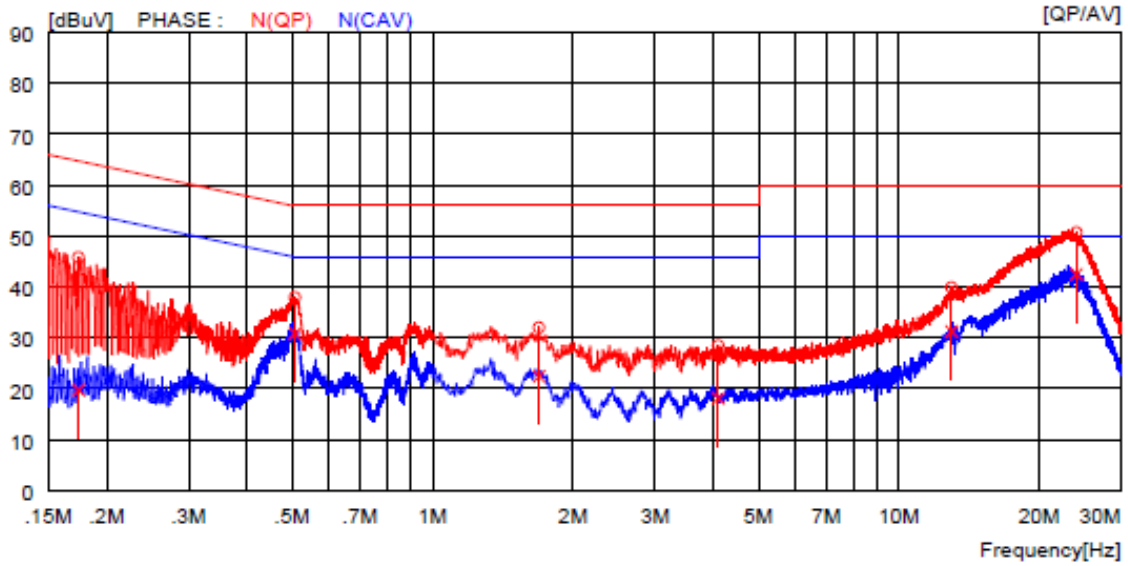
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc Cradle Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17000	38.4	----	9.9	48.3	----	65.0	----	16.7	----	H(QP)
2	0.50600	30.8	----	10.0	40.8	----	56.0	----	15.2	----	H(QP)
3	0.89900	23.4	----	10.0	33.4	----	56.0	----	22.6	----	H(QP)
4	2.24800	21.2	----	10.0	31.2	----	56.0	----	24.8	----	H(QP)
5	13.28000	31.2	----	10.2	41.4	----	60.0	----	18.6	----	H(QP)
6	23.72000	41.6	----	10.2	51.8	----	60.0	----	8.2	----	H(QP)
7	0.17000	----	17.2	9.9	----	27.1	----	55.0	----	27.9	H(CAV)
8	0.50600	----	23.7	10.0	----	33.7	----	46.0	----	12.3	H(CAV)
9	0.89900	----	16.3	10.0	----	26.3	----	46.0	----	19.7	H(CAV)
10	2.24800	----	12.5	10.0	----	22.5	----	46.0	----	23.5	H(CAV)
11	13.28000	----	19.8	10.2	----	30.0	----	50.0	----	20.0	H(CAV)
12	23.72000	----	34.3	10.2	----	44.5	----	50.0	----	5.5	H(CAV)

-. Tested Line : NEUTRAL LINE



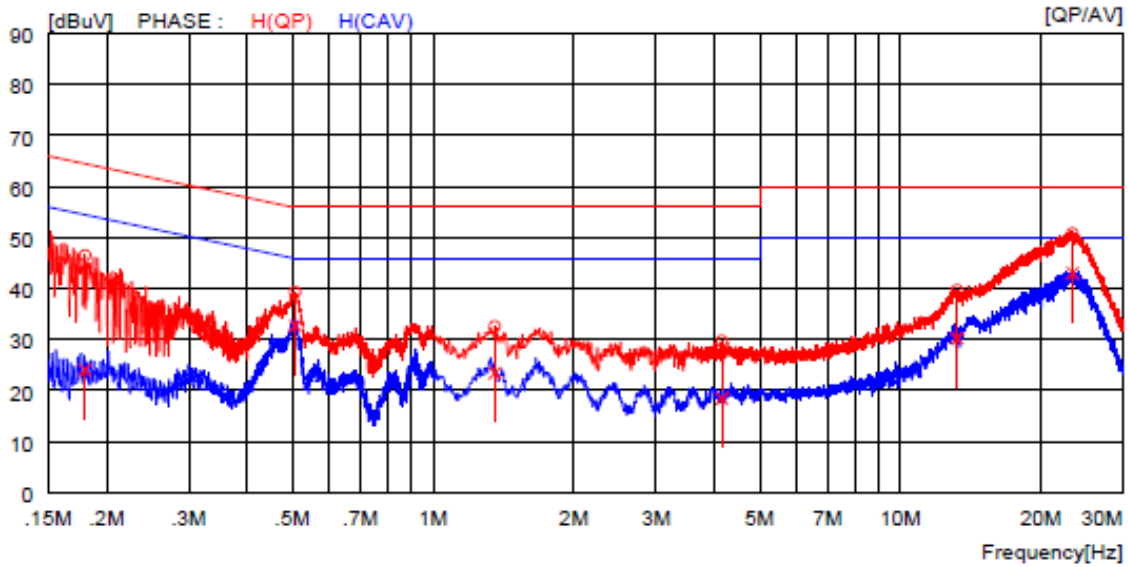
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17400	35.9	----	9.9	45.8	----	64.8	----	19.0	----	N (QP)
2	0.50700	27.9	----	10.0	37.9	----	56.0	----	18.1	----	N (QP)
3	1.69200	22.0	----	10.0	32.0	----	56.0	----	24.0	----	N (QP)
4	4.10000	18.5	----	10.0	28.5	----	56.0	----	27.5	----	N (QP)
5	12.98000	29.7	----	10.2	39.9	----	60.0	----	20.1	----	N (QP)
6	24.06000	40.5	----	10.2	50.7	----	60.0	----	9.3	----	N (QP)
7	0.17400	----	9.8	9.9	----	19.7	----	54.8	----	35.1	N (CAV)
8	0.50700	----	20.8	10.0	----	30.8	----	46.0	----	15.2	N (CAV)
9	1.69200	----	12.4	10.0	----	22.4	----	46.0	----	23.6	N (CAV)
10	4.10000	----	8.1	10.0	----	18.1	----	46.0	----	27.9	N (CAV)
11	12.98000	----	21.0	10.2	----	31.2	----	50.0	----	18.8	N (CAV)
12	24.06000	----	32.3	10.2	----	42.5	----	50.0	----	7.5	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

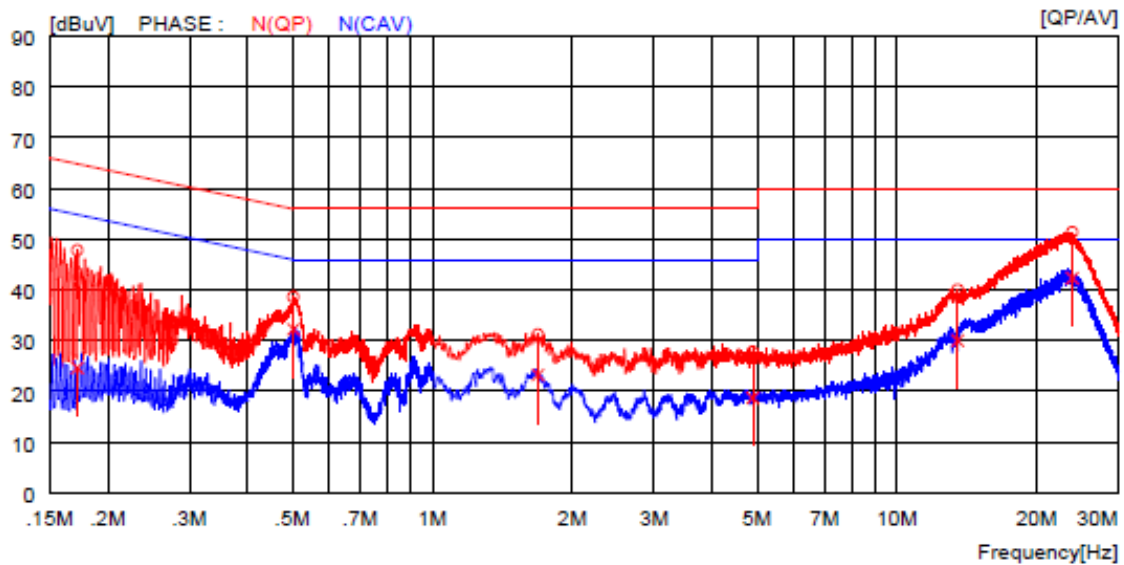
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc IC Card Reader Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18000	36.6	----	9.9	46.5	----	64.5	----	18.0	----	H (QP)
2	0.50700	29.3	----	10.0	39.3	----	56.0	----	16.7	----	H (QP)
3	1.35600	22.6	----	10.0	32.6	----	56.0	----	23.4	----	H (QP)
4	4.15200	19.7	----	10.0	29.7	----	56.0	----	26.3	----	H (QP)
5	13.23000	29.5	----	10.2	39.7	----	60.0	----	20.3	----	H (QP)
6	23.37000	40.6	----	10.2	50.8	----	60.0	----	9.2	----	H (QP)
7	0.18000	----	14.1	9.9	----	24.0	----	54.5	----	30.5	H (CAV)
8	0.50700	----	22.7	10.0	----	32.7	----	46.0	----	13.3	H (CAV)
9	1.35600	----	13.4	10.0	----	23.4	----	46.0	----	22.6	H (CAV)
10	4.15200	----	8.4	10.0	----	18.4	----	46.0	----	27.6	H (CAV)
11	13.23000	----	20.0	10.2	----	30.2	----	50.0	----	19.8	H (CAV)
12	23.37000	----	32.8	10.2	----	43.0	----	50.0	----	7.0	H (CAV)

-. Tested Line : NEUTRAL LINE



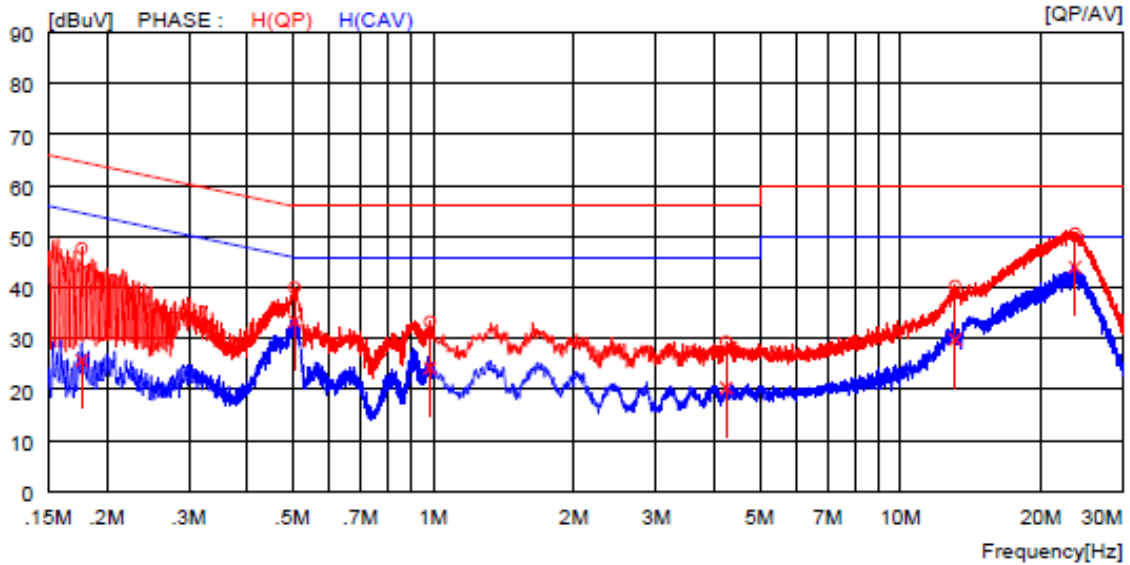
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17200	37.9	----	9.9	47.8	----	64.9	----	17.1	----	N(QP)
2	0.50200	28.6	----	10.0	38.6	----	56.0	----	17.4	----	N(QP)
3	1.68800	21.2	----	10.0	31.2	----	56.0	----	24.8	----	N(QP)
4	4.89600	17.8	----	10.0	27.8	----	56.0	----	28.2	----	N(QP)
5	13.52000	29.8	----	10.2	40.0	----	60.0	----	20.0	----	N(QP)
6	23.87000	41.2	----	10.2	51.4	----	60.0	----	8.6	----	N(QP)
7	0.17200	----	14.7	9.9	----	24.6	----	54.9	----	30.3	N(CAV)
8	0.50200	----	22.2	10.0	----	32.2	----	46.0	----	13.8	N(CAV)
9	1.68800	----	13.2	10.0	----	23.2	----	46.0	----	22.8	N(CAV)
10	4.89600	----	8.7	10.0	----	18.7	----	46.0	----	27.3	N(CAV)
11	13.52000	----	19.8	10.2	----	30.0	----	50.0	----	20.0	N(CAV)
12	23.87000	----	32.1	10.2	----	42.3	----	50.0	----	7.7	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

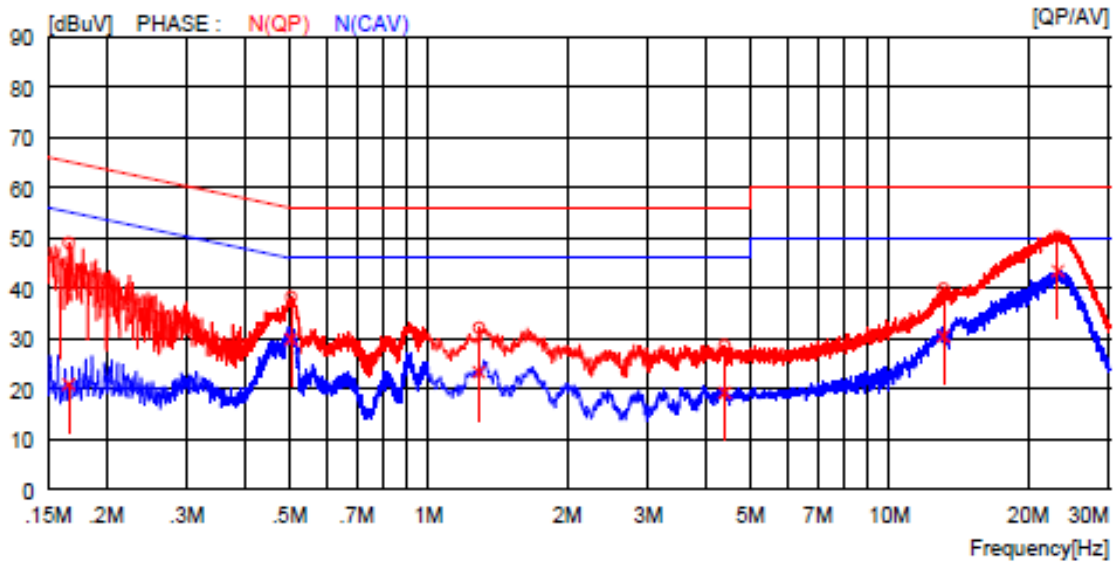
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc Barcord Reader Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17700	37.8	----	9.9	47.7	----	64.6	----	16.9	----	H(QP)
2	0.50500	30.0	----	10.0	40.0	----	56.0	----	16.0	----	H(QP)
3	0.98400	23.3	----	10.0	33.3	----	56.0	----	22.7	----	H(QP)
4	4.24000	19.3	----	10.0	29.3	----	56.0	----	26.7	----	H(QP)
5	13.11000	30.1	----	10.2	40.3	----	60.0	----	19.7	----	H(QP)
6	23.67000	40.4	----	10.2	50.6	----	60.0	----	9.4	----	H(QP)
7	0.17700	----	15.8	9.9	----	25.7	----	54.6	----	28.9	H(CAV)
8	0.50500	----	23.4	10.0	----	33.4	----	46.0	----	12.6	H(CAV)
9	0.98400	----	14.2	10.0	----	24.2	----	46.0	----	21.8	H(CAV)
10	4.24000	----	10.3	10.0	----	20.3	----	46.0	----	25.7	H(CAV)
11	13.11000	----	19.6	10.2	----	29.8	----	50.0	----	20.2	H(CAV)
12	23.67000	----	33.8	10.2	----	44.0	----	50.0	----	6.0	H(CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16600	39.1	----	9.9	49.0	----	65.2	----	16.2	----	N (QP)
2	0.50400	28.2	----	10.0	38.2	----	56.0	----	17.8	----	N (QP)
3	1.28800	22.1	----	10.0	32.1	----	56.0	----	23.9	----	N (QP)
4	4.39200	18.6	----	10.0	28.6	----	56.0	----	27.4	----	N (QP)
5	13.10000	29.7	----	10.2	39.9	----	60.0	----	20.1	----	N (QP)
6	23.18000	40.1	----	10.2	50.3	----	60.0	----	9.7	----	N (QP)
7	0.16600	----	11.0	9.9	----	20.9	----	55.2	----	34.3	N (CAV)
8	0.50400	----	19.9	10.0	----	29.9	----	46.0	----	16.1	N (CAV)
9	1.28800	----	13.3	10.0	----	23.3	----	46.0	----	22.7	N (CAV)
10	4.39200	----	9.2	10.0	----	19.2	----	46.0	----	26.8	N (CAV)
11	13.10000	----	20.2	10.2	----	30.4	----	50.0	----	19.6	N (CAV)
12	23.18000	----	33.2	10.2	----	43.4	----	50.0	----	6.6	N (CAV)

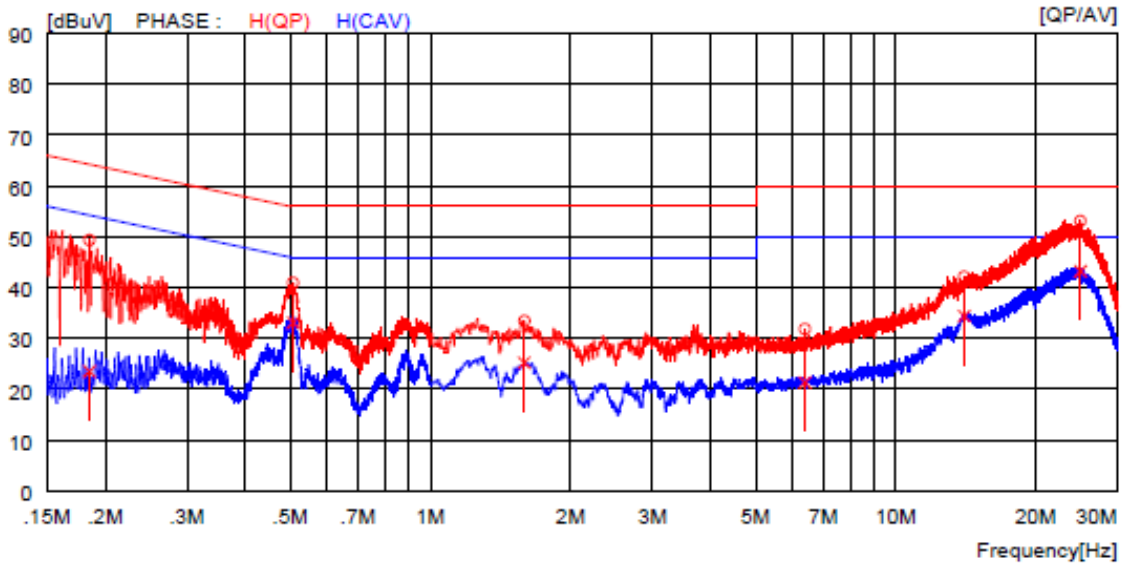
Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

Tested by: Jun-Hui, Lee/ Senior Engineer

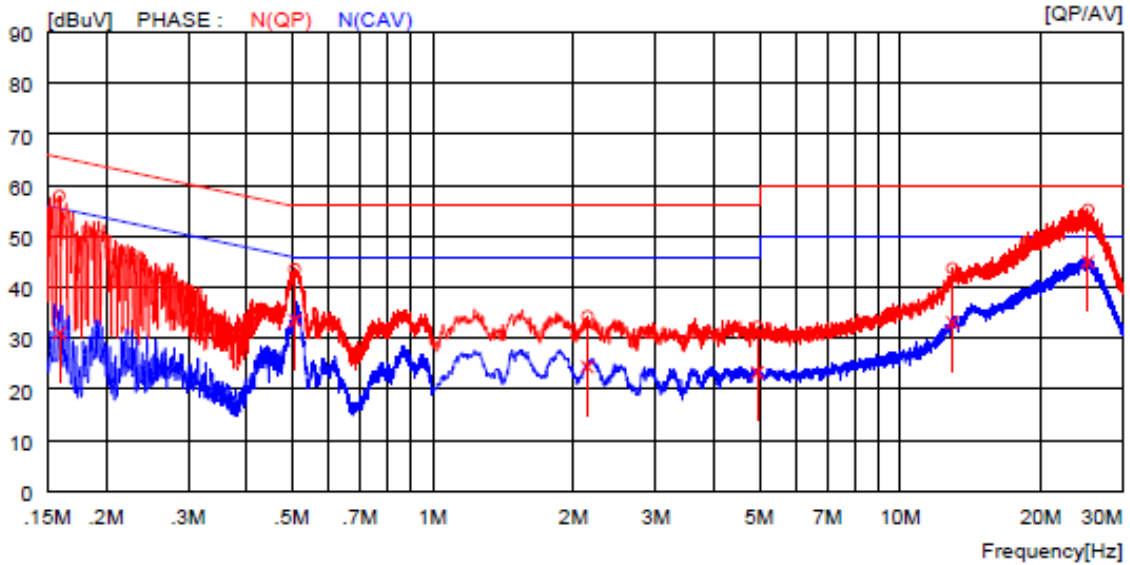
9.6 Test data for BlueTooth LE Mode

- Test Date : March 27, 2015
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Operating condition : Tablet pc Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18500	39.3	----	10.0	49.3	----	64.3	----	15.0	----	H(QP)
2	0.50700	30.9	----	10.0	40.9	----	56.0	----	15.1	----	H(QP)
3	1.59200	23.4	----	10.0	33.4	----	56.0	----	22.6	----	H(QP)
4	6.38000	21.7	----	10.1	31.8	----	60.0	----	28.2	----	H(QP)
5	14.03000	31.9	----	10.2	42.1	----	60.0	----	17.9	----	H(QP)
6	24.94000	42.9	----	10.2	53.1	----	60.0	----	6.9	----	H(QP)
7	0.18500	----	13.5	10.0	----	23.5	----	54.3	----	30.8	H(CAV)
8	0.50700	----	23.1	10.0	----	33.1	----	46.0	----	12.9	H(CAV)
9	1.59200	----	15.2	10.0	----	25.2	----	46.0	----	20.8	H(CAV)
10	6.38000	----	11.2	10.1	----	21.3	----	50.0	----	28.7	H(CAV)
11	14.03000	----	24.2	10.2	----	34.4	----	50.0	----	15.6	H(CAV)
12	24.94000	----	33.0	10.2	----	43.2	----	50.0	----	6.8	H(CAV)

-. Tested Line : NEUTRAL LINE



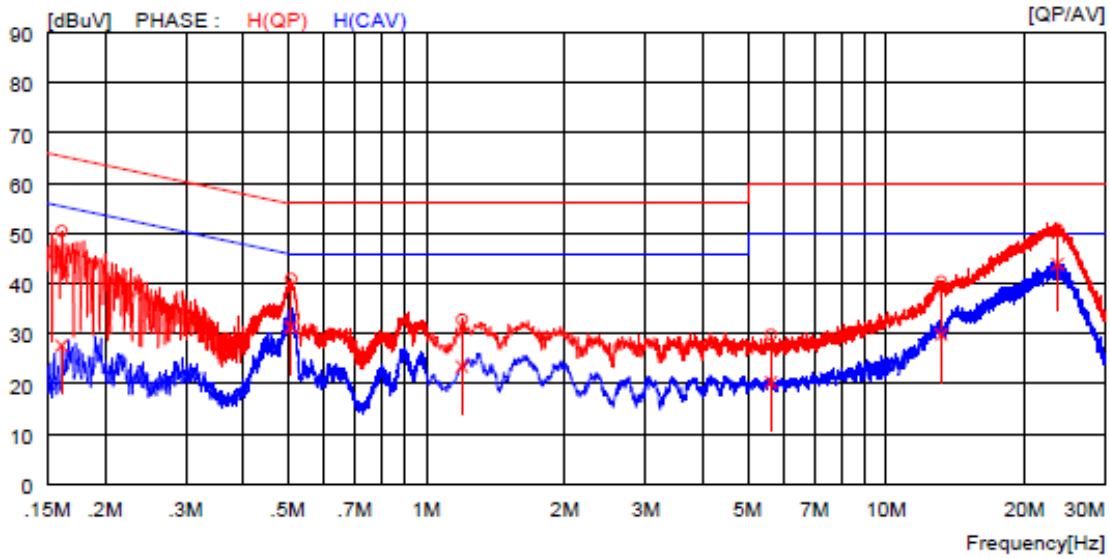
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15900	47.9	----	10.0	57.9	----	65.5	----	7.6	----	N(QP)
2	0.50700	33.5	----	10.0	43.5	----	56.0	----	12.5	----	N(QP)
3	2.14400	24.3	----	10.0	34.3	----	56.0	----	21.7	----	N(QP)
4	4.95200	22.1	----	10.1	32.2	----	56.0	----	23.8	----	N(QP)
5	12.93000	33.5	----	10.2	43.7	----	60.0	----	16.3	----	N(QP)
6	25.22000	45.0	----	10.2	55.2	----	60.0	----	4.8	----	N(QP)
7	0.15900	----	21.0	10.0	----	31.0	----	55.5	----	24.5	N(CAV)
8	0.50700	----	23.5	10.0	----	33.5	----	46.0	----	12.5	N(CAV)
9	2.14400	----	14.4	10.0	----	24.4	----	46.0	----	21.6	N(CAV)
10	4.95200	----	13.2	10.1	----	23.3	----	46.0	----	22.7	N(CAV)
11	12.93000	----	22.9	10.2	----	33.1	----	50.0	----	16.9	N(CAV)
12	25.22000	----	34.8	10.2	----	45.0	----	50.0	----	5.0	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

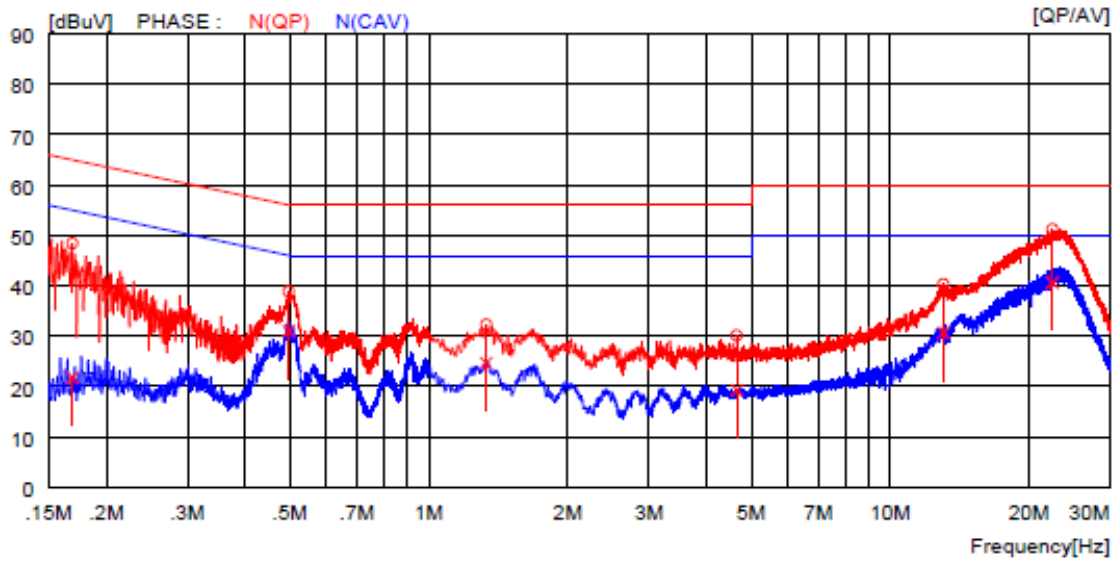
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc Cradle Charging Mode
- Tested Line : HOT LINE



NO	PREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16100	40.6	----	9.9	50.5	----	65.4	----	14.9	----	H (QP)
2	0.50800	30.9	----	10.0	40.9	----	56.0	----	15.1	----	H (QP)
3	1.19600	22.8	----	10.0	32.8	----	56.0	----	23.2	----	H (QP)
4	5.62500	19.8	----	10.0	29.8	----	60.0	----	30.2	----	H (QP)
5	13.18000	30.2	----	10.2	40.4	----	60.0	----	19.6	----	H (QP)
6	23.60000	40.6	----	10.2	50.8	----	60.0	----	9.2	----	H (QP)
7	0.16100	----	17.7	9.9	----	27.6	----	55.4	----	27.8	H (CAV)
8	0.50800	----	21.3	10.0	----	31.3	----	46.0	----	14.7	H (CAV)
9	1.19600	----	13.4	10.0	----	23.4	----	46.0	----	22.6	H (CAV)
10	5.62500	----	10.3	10.0	----	20.3	----	50.0	----	29.7	H (CAV)
11	13.18000	----	19.6	10.2	----	29.8	----	50.0	----	20.2	H (CAV)
12	23.60000	----	33.7	10.2	----	43.9	----	50.0	----	6.1	H (CAV)

-. Tested Line : NEUTRAL LINE



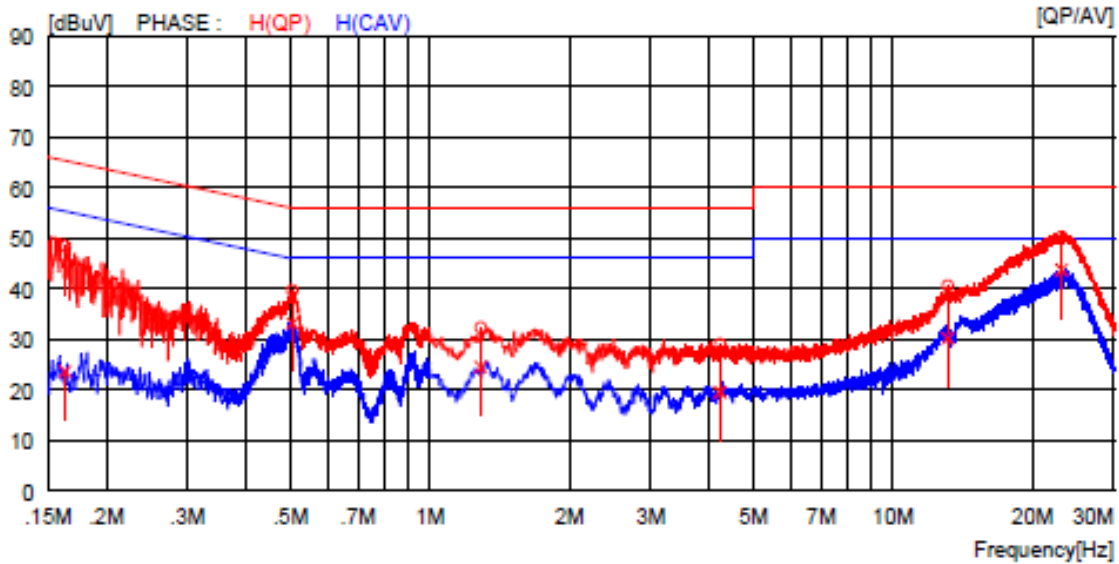
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16900	38.5	----	9.9	48.4	----	65.0	----	16.6	----	N (QP)
2	0.49700	28.8	----	10.0	38.8	----	56.0	----	17.2	----	N (QP)
3	1.33200	22.3	----	10.0	32.3	----	56.0	----	23.7	----	N (QP)
4	4.65200	20.1	----	10.0	30.1	----	56.0	----	25.9	----	N (QP)
5	13.05000	30.1	----	10.2	40.3	----	60.0	----	19.7	----	N (QP)
6	22.47000	41.0	----	10.2	51.2	----	60.0	----	8.8	----	N (QP)
7	0.16900	----	11.9	9.9	----	21.8	----	55.0	----	33.2	N (CAV)
8	0.49700	----	21.0	10.0	----	31.0	----	46.0	----	15.0	N (CAV)
9	1.33200	----	14.6	10.0	----	24.6	----	46.0	----	21.4	N (CAV)
10	4.65200	----	9.2	10.0	----	19.2	----	46.0	----	26.8	N (CAV)
11	13.05000	----	20.5	10.2	----	30.7	----	50.0	----	19.3	N (CAV)
12	22.47000	----	30.4	10.2	----	40.6	----	50.0	----	9.4	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

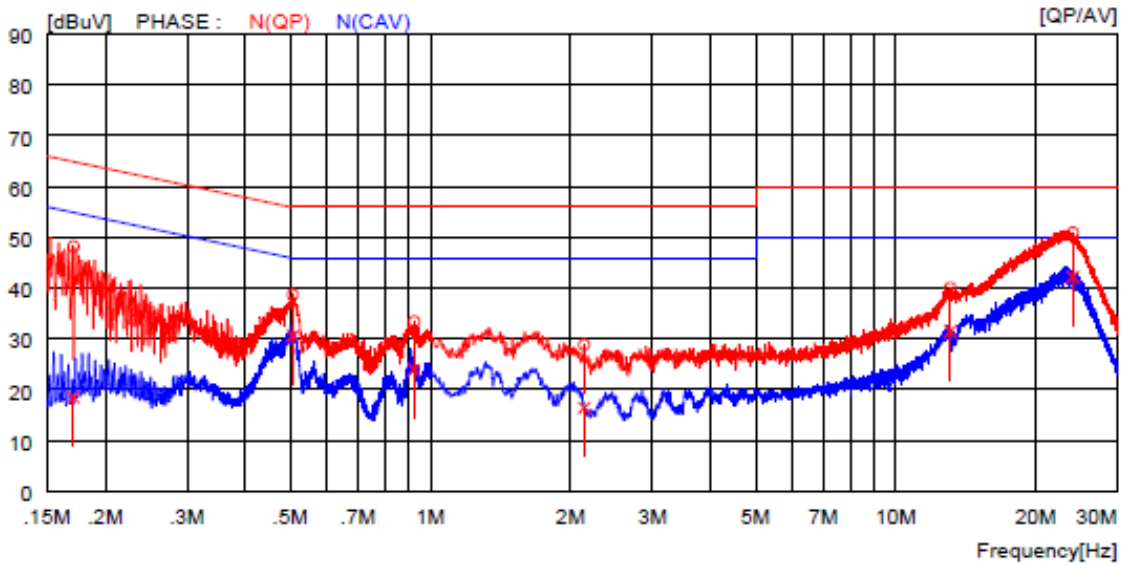
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc IC Card Reader Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16300	38.5	----	9.9	48.4	----	65.3	----	16.9	----	H (QP)
2	0.50500	29.6	----	10.0	39.6	----	56.0	----	16.4	----	H (QP)
3	1.28800	22.3	----	10.0	32.3	----	56.0	----	23.7	----	H (QP)
4	4.22800	19.0	----	10.0	29.0	----	56.0	----	27.0	----	H (QP)
5	13.12000	30.4	----	10.2	40.6	----	60.0	----	19.4	----	H (QP)
6	23.11000	40.0	----	10.2	50.2	----	60.0	----	9.8	----	H (QP)
7	0.16300	----	13.7	9.9	----	23.6	----	55.3	----	31.7	H (CAV)
8	0.50500	----	23.1	10.0	----	33.1	----	46.0	----	12.9	H (CAV)
9	1.28800	----	14.5	10.0	----	24.5	----	46.0	----	21.5	H (CAV)
10	4.22800	----	9.5	10.0	----	19.5	----	46.0	----	26.5	H (CAV)
11	13.12000	----	19.9	10.2	----	30.1	----	50.0	----	19.9	H (CAV)
12	23.11000	----	33.5	10.2	----	43.7	----	50.0	----	6.3	H (CAV)

-. Tested Line : NEUTRAL LINE



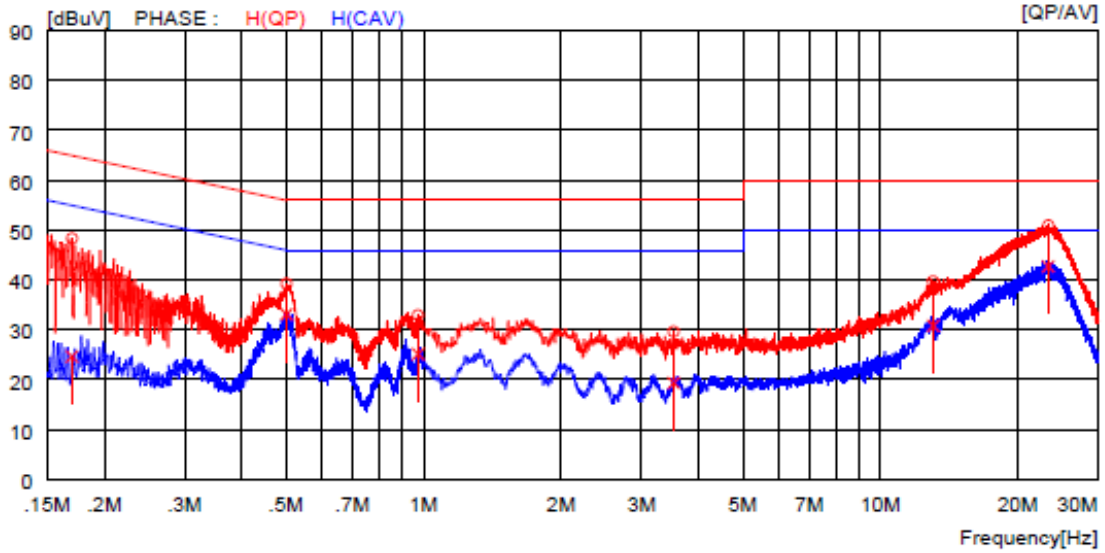
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17100	38.3	----	9.9	48.2	----	64.9	----	16.7	----	N(QP)
2	0.50600	28.7	----	10.0	38.7	----	56.0	----	17.3	----	N(QP)
3	0.92300	23.4	----	10.0	33.4	----	56.0	----	22.6	----	N(QP)
4	2.14000	18.8	----	10.0	28.8	----	56.0	----	27.2	----	N(QP)
5	13.11000	29.8	----	10.2	40.0	----	60.0	----	20.0	----	N(QP)
6	24.06000	40.7	----	10.2	50.9	----	60.0	----	9.1	----	N(QP)
7	0.17100	----	8.6	9.9	----	18.5	----	54.9	----	36.4	N(CAV)
8	0.50600	----	20.6	10.0	----	30.6	----	46.0	----	15.4	N(CAV)
9	0.92300	----	13.9	10.0	----	23.9	----	46.0	----	22.1	N(CAV)
10	2.14000	----	6.4	10.0	----	16.4	----	46.0	----	29.6	N(CAV)
11	13.11000	----	21.3	10.2	----	31.5	----	50.0	----	18.5	N(CAV)
12	24.06000	----	32.0	10.2	----	42.2	----	50.0	----	7.8	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

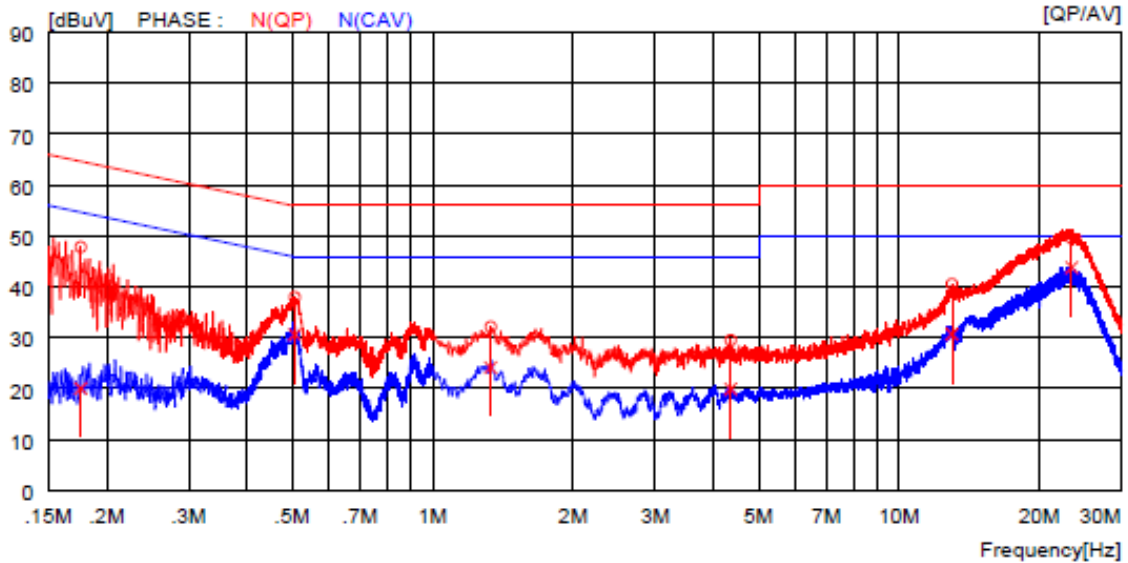
Tested by: Jun-Hui, Lee/ Senior Engineer

- Operating condition : Tablet pc Barcord Reader Charging Mode
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17000	38.4	----	9.9	48.3	----	65.0	----	16.7	----	H(QP)
2	0.50100	29.2	----	10.0	39.2	----	56.0	----	16.8	----	H(QP)
3	0.97200	22.9	----	10.0	32.9	----	56.0	----	23.1	----	H(QP)
4	3.52800	19.6	----	10.0	29.6	----	56.0	----	26.4	----	H(QP)
5	13.06000	29.5	----	10.2	39.7	----	60.0	----	20.3	----	H(QP)
6	23.32000	40.7	----	10.2	50.9	----	60.0	----	9.1	----	H(QP)
7	0.17000	----	14.7	9.9	----	24.6	----	55.0	----	30.4	H(CAV)
8	0.50100	----	23.1	10.0	----	33.1	----	46.0	----	12.9	H(CAV)
9	0.97200	----	15.1	10.0	----	25.1	----	46.0	----	20.9	H(CAV)
10	3.52800	----	9.3	10.0	----	19.3	----	46.0	----	26.7	H(CAV)
11	13.06000	----	20.6	10.2	----	30.8	----	50.0	----	19.2	H(CAV)
12	23.32000	----	32.5	10.2	----	42.7	----	50.0	----	7.3	H(CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17600	37.9	----	9.9	47.8	----	64.7	----	16.9	----	N (QP)
2	0.50600	27.9	----	10.0	37.9	----	56.0	----	18.1	----	N (QP)
3	1.33200	22.1	----	10.0	32.1	----	56.0	----	23.9	----	N (QP)
4	4.35600	19.5	----	10.0	29.5	----	56.0	----	26.5	----	N (QP)
5	12.99000	30.3	----	10.2	40.5	----	60.0	----	19.5	----	N (QP)
6	23.48000	39.3	----	10.2	49.5	----	60.0	----	10.5	----	N (QP)
7	0.17600	----	10.1	9.9	----	20.0	----	54.7	----	34.7	N (CAV)
8	0.50600	----	20.6	10.0	----	30.6	----	46.0	----	15.4	N (CAV)
9	1.33200	----	14.1	10.0	----	24.1	----	46.0	----	21.9	N (CAV)
10	4.35600	----	9.9	10.0	----	19.9	----	46.0	----	26.1	N (CAV)
11	12.99000	----	20.5	10.2	----	30.7	----	50.0	----	19.3	N (CAV)
12	23.48000	----	33.6	10.2	----	43.8	----	50.0	----	6.2	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

Tested by: Jun-Hui, Lee/ Senior Engineer