

Partial FCC Test Report

Report No.: RF170309C18-1

FCC ID: TLZ-CM389NF

Test Model: AW-CM389NF

Received Date: Mar. 09, 2017

Test Date: Mar. 17, 2017 ~ Mar. 20, 2017

Issued Date: Apr. 28, 2017

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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 Summary of Test Results.....	5
2.1 Measurement Uncertainty.....	5
2.2 Modification Record	5
3 General Information	6
3.1 General Description of EUT	6
3.2 Description of Test Modes.....	8
3.2.1 Test Mode Applicability and Tested Channel Detail.....	10
3.3 Description of Support Units	12
3.3.1 Configuration of System under Test	12
3.4 General Description of Applied Standards.....	12
4 Test Types and Results	13
4.1 Radiated Emission and Bandedge Measurement	13
4.1.1 Limits of Radiated Emission and Bandedge Measurement	13
4.1.2 Limits of Unwanted Emission Out of the Restricted Bands	14
4.1.3 Test Instruments	15
4.1.4 Test Procedures.....	16
4.1.5 Deviation from Test Standard	16
4.1.6 Test Set Up	17
4.1.7 EUT Operating Conditions.....	18
4.1.8 Test Results	19
4.2 Conducted Emission Measurement.....	65
4.2.1 Limits of Conducted Emission Measurement	65
4.2.2 Test Instruments	65
4.2.3 Test Procedures.....	66
4.2.4 Deviation from Test Standard	66
4.2.5 Test Setup.....	66
4.2.6 EUT Operating Conditions.....	66
4.2.7 Test Results	67
5 Pictures of Test Arrangements.....	69
Annex A- Radiated Out of Band Emisison (OOBE) Measurement (For U-NII-3 band)	70
Appendix – Information on the Testing Laboratories	73

Release Control Record

Issue No.	Description	Date Issued
RF170309C18-1	Original Release	Apr. 28, 2017

1 Certificate of Conformity

Product: IEEE 802.11 2X2 MIMO a/b/g/n/ac Wireless LAN + Bluetooth Module

Brand: AzureWave

Test Model: AW-CM389NF

Sample Status: Identical Prototype

Applicant: AzureWave Technologies, Inc.

Test Date: Mar. 17, 2017 ~ Mar. 20, 2017

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Rona Chen , **Date:** Apr. 28, 2017
Rona Chen / Specialist

Approved by : David Huang , **Date:** Apr. 28, 2017
David Huang / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -20.63 dB at 0.26730 MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -2.8 dB at 5113.55 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	N/A	Refer to Note
15.407(a)(1/2/3)	Peak Power Spectral Density	N/A	Refer to Note
15.407(e)	6 dB Bandwidth	N/A	Refer to Note
15.407(g)	Frequency Stability	N/A	Refer to Note
15.203	Antenna Requirement	N/A	Refer to Note

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.

Note: Test items for AC Power Conducted Emission and Radiated Emissions were performed for this report.

For other test data, please refer to BV CPS Report No.: RF140407E07D-1 for module (Brand: AzureWave, Model: AW-CM389NF).

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	IEEE 802.11 2X2 MIMO a/b/g/n/ac Wireless LAN + Bluetooth Module
Brand	AzureWave
Test Model	AW-CM389NF
Status of EUT	Identical Prototype
Power Supply Rating	3.3 Vdc (Host equipment)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to MCS7 802.11ac: up to V9
Operating Frequency	5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5700 MHz, 5745 ~ 5825 MHz
Number of Channel	5180 ~ 5240 MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80) 5260 ~ 5320 MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80) 5500 ~ 5700 MHz: 11 for 802.11a, 802.11n (HT20) 5 for 802.11n (HT40) 2 for 802.11ac (VHT80) 5745 ~ 5825 MHz: 5 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80)
Antenna Type	Refer to BV CPS Report No.: RF140407E07D-1
Antenna Connector	Refer to BV CPS Report No.: RF140407E07D-1
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

- The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	Tx Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT80)	2TX

* The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for HT20 / HT40, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

2. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model
Smart IOT	Compal	EIH3

3. The information of antenna which collocated in the End-product is listed as below.

Antenna Type	Manufacturer	Antenna Gain (dBi)			
		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
Dipole	Speed	Main: 1.76	Main: 2.45	Main: 1.13	Main: 1.96
		Aux.: 5.39	Aux.: 4.82	Aux.: 4.04	Aux.: 4.85

4. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter	DVE	DSA-24PFM-12 FUS	I/P: 100-240 Vac, 0.8 A O/P: 12 Vdc, 2 A
BT/WLAN Module	AzureWave	AW-CM389NF	--
Zigbee Module	MMBnetwork	Z357PA40-SMT	--
Z-Wave Module	Sigma Designs	ZM5202AU	--

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

For 5180 ~ 5240 MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
42	5210

For 5260 ~ 5320 MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
56	5280	64	5320

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
58	5290

For 5500 ~ 5700 MHz

11 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	140	5700
120	5600		

5 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	126	5630
110	5550	134	5670
118	5590		

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610

For 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
155	5775

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To			Description
	RE $\geq$ 1G	RE<1G	PLC	
-	√	√	√	MIMO

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz **RE<1G**: Radiated Emission below 1 GHz
PLC: Power Line Conducted Emission

Radiated Emission Test (Above 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5240	802.11a	36 to 48	36, 44, 48	OFDM	BPSK	6.0
-		802.11n (HT20)	36 to 48	36, 44, 48	OFDM	BPSK	MCS0
-		802.11n (HT40)	38 to 46	38, 46	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	42	42	OFDM	BPSK	MCS0
-	5260-5320	802.11a	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-		802.11n (HT20)	52 to 64	52, 60, 64	OFDM	BPSK	MCS0
-		802.11n (HT40)	54 to 62	54, 62	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	58	58	OFDM	BPSK	MCS0
-	5500-5700	802.11a	100 to 140	100, 116, 140	OFDM	BPSK	6.0
-		802.11n (HT20)	100 to 140	100, 116, 140	OFDM	BPSK	MCS0
-		802.11n (HT40)	102 to 134	102, 110, 134	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	106 to 122	106, 122	OFDM	BPSK	MCS0
-	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-		802.11n (HT20)	149 to 165	149, 157, 165	OFDM	BPSK	MCS0
-		802.11n (HT40)	151 to 159	151, 159	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	155	155	OFDM	BPSK	MCS0

Radiated Emission Test (Below 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5240	802.11ac (VHT80)	42	42	OFDM	BPSK	MCS0
-	5260-5320	802.11ac (VHT80)	58	58	OFDM	BPSK	MCS0
-	5500-5700	802.11a	100 to 140	140	OFDM	BPSK	6.0
-	5745-5825	802.11a	149 to 165	149	OFDM	BPSK	6.0

Co-location of Radiated Emission Test:

Since WLAN is possibly operated with Zigbee or Z-Wave at the same time, so the EUT was evaluated co-location by the channel of the maximum power of WLAN and Zigbee / Z-Wave.

Tested Channel of Co-location		
		WLAN Mode
		802.11n (HT20)
Other Mode	Tested Channel	116
Zigbee	11	V
Z-Wave	2 (908.40 MHz)	V

Power Line Conducted Emission Test:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5240	802.11ac (VHT80)	42	42	OFDM	BPSK	MCS0

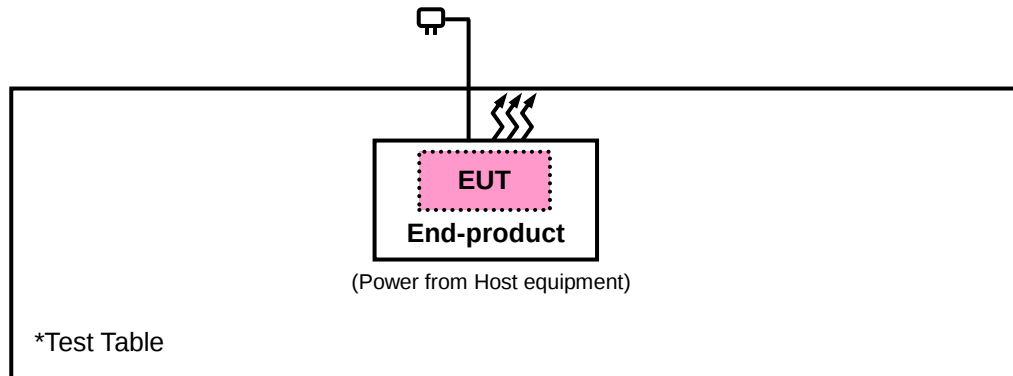
Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang

3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v01r03

644545 D01 Guidance for IEEE 802.11ac v01r02

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC).
The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

4.1.2 Limits of Unwanted Emission Out of the Restricted Bands

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v01r03		Field Strength at 3 m	
		PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

4.1.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Feb. 17, 2017	Feb. 16, 2018
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 16, 2016	Dec. 15, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 13, 2016	Dec. 12, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 26, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 12, 2016	Dec. 13, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	BW-N10W5+	NA	Jul. 08, 2016	Jul. 07, 2017
Preamplifier EMCI	EMC 012645	980115	Oct. 21, 2016	Oct. 20, 2017
Preamplifier EMCI	EMC 184045	980116	Oct. 21, 2016	Oct. 20, 2017
Preamplifier EMCI	EMC 330H	980112	Oct. 21, 2016	Oct. 20, 2017
Power Meter Anritsu	ML2495A	1232002	Sep. 08, 2016	Sep. 07, 2017
Power Sensor Anritsu	MA2411B	1207325	Sep. 08, 2016	Sep. 07, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 21, 2016	Oct. 20, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 21, 2016	Oct. 20, 2017
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 21, 2016	Oct. 20, 2017
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The FCC Site Registration No. is 690701.
5. The IC Site Registration No. is IC7450F-10.

4.1.4 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

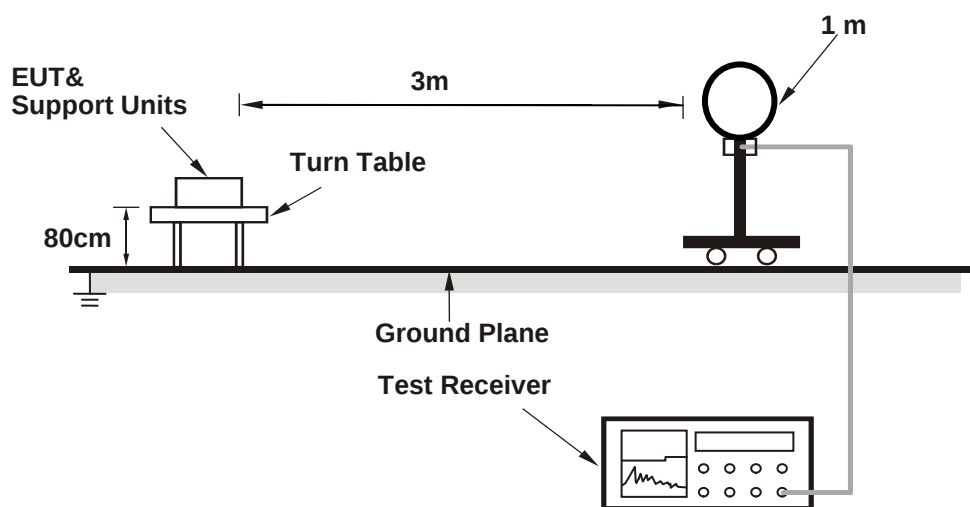
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz & 360 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1/T for Average (Duty cycle < 98 %) at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 Deviation from Test Standard

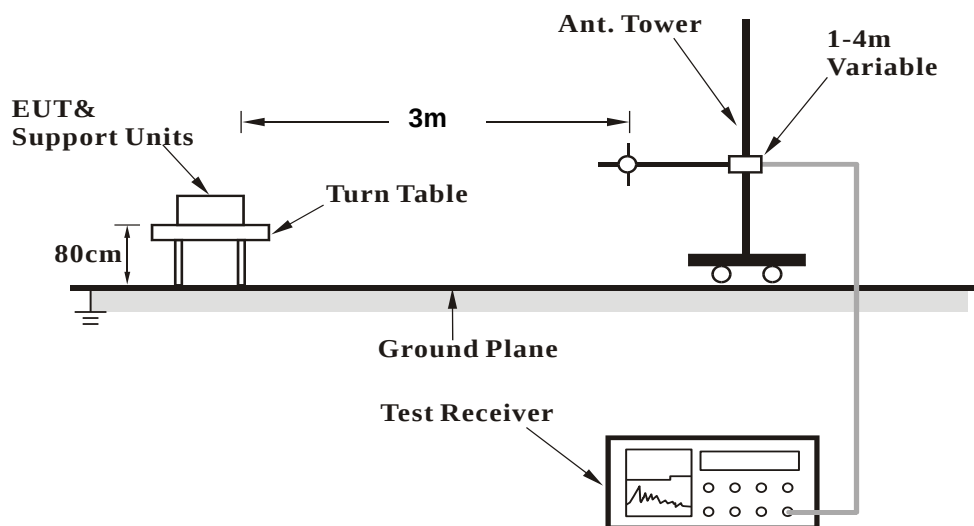
No deviation.

4.1.6 Test Set Up

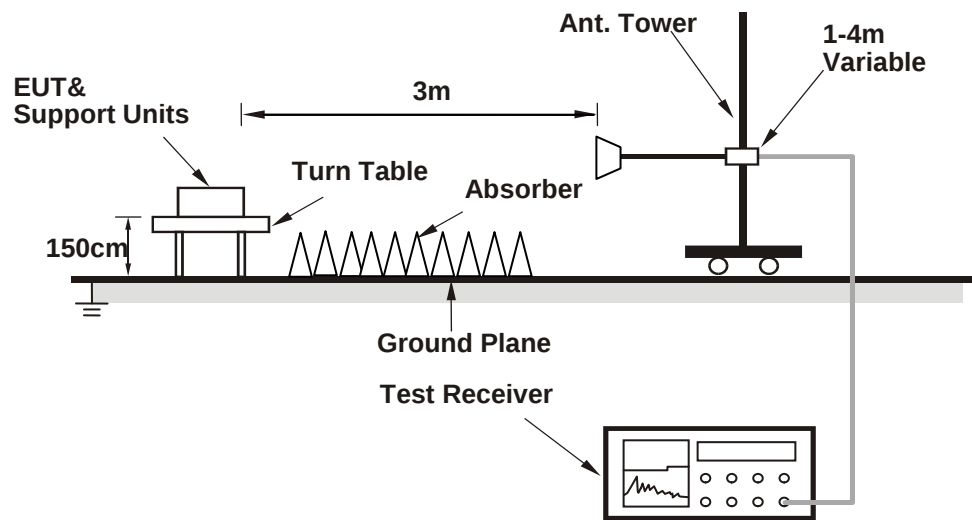
<Radiated emission below 30MHz>



<Frequency Range below 1 GHz>



<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.7 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.8 Test Results

Above 1 GHz Data :

802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5146.1	58.6	58.4	74	-15.4	31.32	6.2	37.32	194	128	Peak
5146.85	47.51	47.31	54	-6.49	31.32	6.2	37.32	194	128	Average
5180	97.22	96.99			31.35	6.22	37.34	194	128	Average
5180	104.41	104.18			31.35	6.22	37.34	194	128	Peak
*10360	53.59	57.49	68.2	-14.61	39.19	9.05	52.14	188	99	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5148.35	58.45	58.25	74	-15.55	31.32	6.2	37.32	209	34	Peak
5149.85	47.97	47.77	54	-6.03	31.32	6.2	37.32	209	34	Average
5180	98.95	98.72			31.35	6.22	37.34	209	34	Average
5180	106.06	105.83			31.35	6.22	37.34	209	34	Peak
*10360	54.5	58.4	68.2	-13.7	39.19	9.05	52.14	117	258	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5180 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5043.35	50.03	49.89	74	-23.97	31.24	6.15	37.25	195	129	Peak
5147.9	41.32	41.12	54	-12.68	31.32	6.2	37.32	195	129	Average
5220	97.39	97.14			31.37	6.24	37.36	195	129	Average
5220	104.54	104.29			31.37	6.24	37.36	195	129	Peak
*10440	54.09	58.19	68.2	-14.11	39.29	9.09	52.48	190	87	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5134.25	52.01	51.8	74	-21.99	31.31	6.2	37.3	210	32	Peak
5147.75	42.63	42.43	54	-11.37	31.32	6.2	37.32	210	32	Average
5220	98.69	98.44			31.37	6.24	37.36	210	32	Average
5220	106.07	105.82			31.37	6.24	37.36	210	32	Peak
*10440	54.24	58.34	68.2	-13.96	39.29	9.09	52.48	117	255	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5220 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5016.95	51.51	51.39	74	-22.49	31.21	6.15	37.24	195	127	Peak
5127.65	41.14	40.93	54	-12.86	31.31	6.2	37.3	195	127	Average
5240	97.44	97.12			31.39	6.25	37.32	195	127	Average
5240	104.54	104.22			31.39	6.25	37.32	195	127	Peak
*10480	55.69	59.94	68.2	-12.51	39.37	9.09	52.71	187	97	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5000.15	41.91	41.81	54	-12.09	31.2	6.13	37.23	207	30	Average
5016.2	51.08	50.95	74	-22.92	31.21	6.15	37.23	207	30	Peak
5240	98.77	98.45			31.39	6.25	37.32	207	30	Average
5240	106.12	105.8			31.39	6.25	37.32	207	30	Peak
*10480	55.26	59.51	68.2	-12.94	39.37	9.09	52.71	118	260	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5240 MHz: Fundamental Frequency
3. *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5260	94.85	94.46			31.41	6.25	37.27	198	127	Average
5260	102.81	102.42			31.41	6.25	37.27	198	127	Peak
5422.82	51.44	50.77	74	-22.56	31.53	6.32	37.18	198	127	Peak
5440.86	41.37	40.61	54	-12.63	31.55	6.34	37.13	198	127	Average
*10520	55.24	59.52	68.2	-12.96	39.43	9.12	52.83	190	102	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5260	99.04	98.65			31.41	6.25	37.27	193	34	Average
5260	106.31	105.92			31.41	6.25	37.27	193	34	Peak
5370.57	51.05	50.43	74	-22.95	31.49	6.31	37.18	193	34	Peak
5457.8	41.48	40.66	54	-12.52	31.56	6.34	37.08	193	34	Average
*10520	55.44	59.72	68.2	-12.76	39.43	9.12	52.83	116	260	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5260 MHz: Fundamental Frequency
3. *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5300	95.97	95.45			31.44	6.27	37.19	198	130	Average
5300	103.24	102.72			31.44	6.27	37.19	198	130	Peak
5350	41.99	41.4	54	-12.01	31.48	6.29	37.18	198	130	Average
5354.18	52.25	51.66	74	-21.75	31.48	6.29	37.18	198	130	Peak
10600	46.07	49.75	54	-7.93	39.57	9.16	52.41	190	102	Average
10600	54.84	58.52	74	-19.16	39.57	9.16	52.41	190	102	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5300	99.35	98.83			31.44	6.27	37.19	193	40	Average
5300	106.65	106.13			31.44	6.27	37.19	193	40	Peak
5350.11	42.48	41.89	54	-11.52	31.48	6.29	37.18	193	40	Average
5352.64	54.25	53.66	74	-19.75	31.48	6.29	37.18	193	40	Peak
10600	46.07	49.75	54	-7.93	39.57	9.16	52.41	118	249	Average
10600	54.64	58.32	74	-19.36	39.57	9.16	52.41	118	249	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5300 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5320	94.69	94.14			31.45	6.29	37.19	198	128	Average
5320	101.76	101.21			31.45	6.29	37.19	198	128	Peak
5350.66	55.9	55.31	74	-18.1	31.48	6.29	37.18	198	128	Peak
5351.43	45.31	44.72	54	-8.69	31.48	6.29	37.18	198	128	Average
10640	45.5	48.95	54	-8.5	39.62	9.2	52.27	192	98	Average
10640	57.39	60.84	74	-16.61	39.62	9.2	52.27	192	98	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5320	97.71	97.16			31.45	6.29	37.19	192	38	Average
5320	105.19	104.64			31.45	6.29	37.19	192	38	Peak
5351.54	48.27	47.68	54	-5.73	31.48	6.29	37.18	192	38	Average
5352.53	57.89	57.3	74	-16.11	31.48	6.29	37.18	192	38	Peak
10640	45.3	48.75	54	-8.7	39.62	9.2	52.27	119	261	Average
10640	54.75	58.2	74	-19.25	39.62	9.2	52.27	119	261	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5320 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5458.16	52.11	51.29	74	-21.89	31.56	6.34	37.08	186	120	Peak
5458.8	41.9	41.08	54	-12.1	31.56	6.34	37.08	186	120	Average
*5469.04	54.24	53.41	68.2	-13.96	31.57	6.34	37.08	186	120	Peak
5500	94.07	93.14			31.6	6.36	37.03	186	120	Average
5500	101.55	100.62			31.6	6.36	37.03	186	120	Peak
*5725.96	51.58	50.3	68.2	-16.62	31.96	6.75	37.43	186	120	Peak
11000	46.08	49.98	54	-7.92	40.2	9.35	53.45	131	298	Average
11000	56.89	60.79	74	-17.11	40.2	9.35	53.45	131	298	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5435.28	50.97	50.23	74	-23.03	31.55	6.32	37.13	196	73	Peak
5460.08	42.1	41.28	54	-11.9	31.56	6.34	37.08	196	73	Average
*5469.68	57.21	56.38	68.2	-10.99	31.57	6.34	37.08	196	73	Peak
5500	98.25	97.32			31.6	6.36	37.03	196	73	Average
5500	105.42	104.49			31.6	6.36	37.03	196	73	Peak
*5725.32	51.08	49.8	68.2	-17.12	31.96	6.75	37.43	196	73	Peak
11000	46.62	50.52	54	-7.38	40.2	9.35	53.45	188	49	Average
11000	55.78	59.68	74	-18.22	40.2	9.35	53.45	188	49	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5500 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5434.96	41.09	40.35	54	-12.91	31.55	6.32	37.13	187	119	Average
5450	50.66	49.84	74	-23.34	31.56	6.34	37.08	187	119	Peak
*5468.88	48.77	47.94	68.2	-19.43	31.57	6.34	37.08	187	119	Peak
5580	95.12	94.08			31.71	6.49	37.16	187	119	Average
5580	102.77	101.73			31.71	6.49	37.16	187	119	Peak
*5725.96	49.81	48.53	68.2	-18.39	31.96	6.75	37.43	187	119	Peak
11600	46.3	49.91	54	-7.7	39.71	10.09	53.41	135	301	Average
11600	56	59.61	74	-18	39.71	10.09	53.41	135	301	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5432.72	41.24	40.5	54	-12.76	31.55	6.32	37.13	198	72	Average
5449.52	50.49	49.72	74	-23.51	31.56	6.34	37.13	198	72	Peak
*5469.04	49.46	48.63	68.2	-18.74	31.57	6.34	37.08	198	72	Peak
5580	99.01	97.97			31.71	6.49	37.16	198	72	Average
5580	106.21	105.17			31.71	6.49	37.16	198	72	Peak
*5723.96	50.55	49.33	68.2	-17.65	31.96	6.69	37.43	198	72	Peak
11600	46.8	50.41	54	-7.2	39.71	10.09	53.41	121	42	Average
11600	56.01	59.62	74	-17.99	39.71	10.09	53.41	121	42	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5580 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5432.88	41.72	40.98	54	-12.28	31.55	6.32	37.13	198	113	Average
5458.16	51.61	50.79	74	-22.39	31.56	6.34	37.08	198	113	Peak
*5470.16	50.17	49.34	68.2	-18.03	31.57	6.34	37.08	198	113	Peak
5700	93.9	92.71			31.9	6.69	37.4	198	113	Average
5700	101.52	100.33			31.9	6.69	37.4	198	113	Peak
*5725.32	57.01	55.73	68.2	-11.19	31.96	6.75	37.43	198	113	Peak
11400	46.65	48.91	54	-7.35	39.96	9.91	52.13	139	306	Average
11400	58.64	60.9	74	-15.36	39.96	9.91	52.13	139	306	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5374	50.84	50.22	74	-23.16	31.49	6.31	37.18	196	74	Peak
5455.44	41.88	41.06	54	-12.12	31.56	6.34	37.08	196	74	Average
*5468.88	49.79	48.96	68.2	-18.41	31.57	6.34	37.08	196	74	Peak
5700	98.09	96.9			31.9	6.69	37.4	196	74	Average
5700	105.22	104.03			31.9	6.69	37.4	196	74	Peak
*5724.04	63.35	62.13	68.2	-4.85	31.96	6.69	37.43	196	74	Peak
11400	47.34	49.6	54	-6.66	39.96	9.91	52.13	129	38	Average
11400	58.11	60.37	74	-15.89	39.96	9.91	52.13	129	38	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5700 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5745	98.85	97.58			31.99	6.75	37.47	197	60	Average
5745	106.43	105.16			31.99	6.75	37.47	197	60	Peak
11490	45.95	48.84	54	-8.05	39.91	10.03	52.83	135	305	Average
11490	57.11	60	74	-16.89	39.91	10.03	52.83	135	305	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5745	101.54	100.27			31.99	6.75	37.47	199	74	Average
5745	108.73	107.46			31.99	6.75	37.47	199	74	Peak
11490	45.87	48.76	54	-8.13	39.91	10.03	52.83	131	42	Average
11490	57.88	60.77	74	-16.12	39.91	10.03	52.83	131	42	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5580.875	51.5	50.46	68.2	-16.7	31.71	6.49	37.16	197	60	Peak
5652.6	50.91	49.72	70.13	-19.22	31.85	6.62	37.28	197	60	Peak
5920.025	51.13	49.36	71.87	-20.74	32.26	7.01	37.5	197	60	Peak
5959.925	52.41	50.5	68.2	-15.79	32.34	7.08	37.51	197	60	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5594.175	51.04	49.97	68.2	-17.16	31.74	6.49	37.16	199	74	Peak
5650.7	51.65	50.46	68.72	-17.07	31.85	6.62	37.28	199	74	Peak
5921.925	52.91	51.11	70.47	-17.56	32.29	7.01	37.5	199	74	Peak
5984.625	53.61	51.61	68.2	-14.59	32.37	7.14	37.51	199	74	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5745 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5785	98.78	97.46			32.04	6.82	37.54	196	54	Average
5785	106.19	104.87			32.04	6.82	37.54	196	54	Peak
11570	45.23	48.69	54	-8.77	39.78	10.09	53.33	141	302	Average
11570	55.58	59.04	74	-18.42	39.78	10.09	53.33	141	302	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5785	101.35	100.03			32.04	6.82	37.54	199	74	Average
5785	108.49	107.17			32.04	6.82	37.54	199	74	Peak
11570	44.99	48.45	54	-9.01	39.78	10.09	53.33	128	40	Average
11570	55.26	58.72	74	-18.74	39.78	10.09	53.33	128	40	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5605.575	51.24	50.13	68.2	-16.96	31.77	6.56	37.22	196	54	Peak
5658.775	50.96	49.83	74.72	-23.76	31.85	6.62	37.34	196	54	Peak
5915.75	51.05	49.28	75.02	-23.97	32.26	7.01	37.5	196	54	Peak
5960.4	52.07	50.16	68.2	-16.13	32.34	7.08	37.51	196	54	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5567.1	51.16	50.08	68.2	-17.04	31.71	6.49	37.12	199	74	Peak
5659.725	51.72	50.59	75.42	-23.7	31.85	6.62	37.34	199	74	Peak
5922.875	51.98	50.18	69.77	-17.79	32.29	7.01	37.5	199	74	Peak
5930	52.36	50.56	68.2	-15.84	32.29	7.01	37.5	199	74	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5785 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5825	100.02	98.55			32.12	6.88	37.53	195	56	Average
5825	106.38	104.91			32.12	6.88	37.53	195	56	Peak
11650	44.81	48.36	54	-9.19	39.65	10.15	53.35	136	309	Average
11650	53.71	57.26	74	-20.29	39.65	10.15	53.35	136	309	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5825	101.85	100.38			32.12	6.88	37.53	202	74	Average
5825	108.52	107.05			32.12	6.88	37.53	202	74	Peak
11650	45.25	48.8	54	-8.75	39.65	10.15	53.35	126	36	Average
11650	53.93	57.48	74	-20.07	39.65	10.15	53.35	126	36	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5561.875	51.46	50.41	68.2	-16.74	31.68	6.49	37.12	195	56	Peak
5658.775	50.62	49.49	74.72	-24.1	31.85	6.62	37.34	195	56	Peak
5920.5	51.03	49.26	71.52	-20.49	32.26	7.01	37.5	195	56	Peak
5958.975	52.94	51.02	68.2	-15.26	32.34	7.08	37.5	195	56	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5559.975	52.19	51.14	68.2	-16.01	31.68	6.49	37.12	202	74	Peak
5655.45	50.12	48.99	72.25	-22.13	31.85	6.62	37.34	202	74	Peak
5916.7	51.45	49.68	74.32	-22.87	32.26	7.01	37.5	202	74	Peak
5981.3	52.72	50.78	68.2	-15.48	32.37	7.08	37.51	202	74	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5825 MHz: Fundamental Frequency
- *: Out of Restricted Band

802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5146.25	47.73	47.53	54	-6.27	31.32	6.2	37.32	187	131	Average
5148.8	59.12	58.92	74	-14.88	31.32	6.2	37.32	187	131	Peak
5180	97.39	97.16			31.35	6.22	37.34	187	131	Average
5180	104.46	104.23			31.35	6.22	37.34	187	131	Peak
*10360	53.53	57.43	68.2	-14.67	39.19	9.05	52.14	189	101	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5149.55	61.77	61.57	74	-12.23	31.32	6.2	37.32	208	36	Peak
5150	48.8	48.6	54	-5.2	31.32	6.2	37.32	208	36	Average
5180	98.72	98.49			31.35	6.22	37.34	208	36	Average
5180	106.1	105.87			31.35	6.22	37.34	208	36	Peak
*10360	53.84	57.74	68.2	-14.36	39.19	9.05	52.14	118	255	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5180 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5131.55	50.2	49.99	74	-23.8	31.31	6.2	37.3	188	126	Peak
5148.05	42.01	41.81	54	-11.99	31.32	6.2	37.32	188	126	Average
5220	97.48	97.23			31.37	6.24	37.36	188	126	Average
5220	104.56	104.31			31.37	6.24	37.36	188	126	Peak
*10440	53.86	57.96	68.2	-14.34	39.29	9.09	52.48	189	98	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5049.5	51.25	51.11	74	-22.75	31.24	6.15	37.25	206	35	Peak
5147.3	42.25	42.05	54	-11.75	31.32	6.2	37.32	206	35	Average
5220	98.87	98.62			31.37	6.24	37.36	206	35	Average
5220	106.26	106.01			31.37	6.24	37.36	206	35	Peak
*10440	53.34	57.44	68.2	-14.86	39.29	9.09	52.48	116	256	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5220 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5016.35	50.44	50.32	74	-23.56	31.21	6.15	37.24	188	130	Peak
5131.4	41.18	40.97	54	-12.82	31.31	6.2	37.3	188	130	Average
5240	97.49	97.17			31.39	6.25	37.32	188	130	Average
5240	104.66	104.34			31.39	6.25	37.32	188	130	Peak
*10480	53.53	57.78	68.2	-14.67	39.37	9.09	52.71	190	102	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5017.85	41.08	40.96	54	-12.92	31.21	6.15	37.24	207	31	Average
5136.95	50.77	50.56	74	-23.23	31.31	6.2	37.3	207	31	Peak
5240	98.74	98.42			31.39	6.25	37.32	207	31	Average
5240	106.05	105.73			31.39	6.25	37.32	207	31	Peak
*10480	56.47	60.72	68.2	-11.73	39.37	9.09	52.71	115	264	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5240 MHz: Fundamental Frequency
3. *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5260	95.84	95.45			31.41	6.25	37.27	199	129	Average
5260	103.16	102.77			31.41	6.25	37.27	199	129	Peak
5443.06	50.72	49.96	74	-23.28	31.55	6.34	37.13	199	129	Peak
5452.19	41.12	40.3	54	-12.88	31.56	6.34	37.08	199	129	Average
*10520	53.42	57.7	68.2	-14.78	39.43	9.12	52.83	187	103	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5260	99.14	98.75			31.41	6.25	37.27	196	37	Average
5260	106.3	105.91			31.41	6.25	37.27	196	37	Peak
5407.2	51.4	50.74	74	-22.6	31.52	6.32	37.18	196	37	Peak
5427.44	41.52	40.8	54	-12.48	31.53	6.32	37.13	196	37	Average
*10520	53.35	57.63	68.2	-14.85	39.43	9.12	52.83	119	261	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5260 MHz: Fundamental Frequency
3. *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5300	95.87	95.35			31.44	6.27	37.19	199	128	Average
5300	102.93	102.41			31.44	6.27	37.19	199	128	Peak
5350	53.41	52.82	74	-20.59	31.48	6.29	37.18	199	128	Peak
5350.22	41.83	41.24	54	-12.17	31.48	6.29	37.18	199	128	Average
10600	45.27	48.95	54	-8.73	39.57	9.16	52.41	198	88	Average
10600	54.95	58.63	74	-19.05	39.57	9.16	52.41	198	88	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5300	99.19	98.67			31.44	6.27	37.19	194	33	Average
5300	106.61	106.09			31.44	6.27	37.19	194	33	Peak
5352.31	52.49	51.9	74	-21.51	31.48	6.29	37.18	194	33	Peak
5352.53	42.59	42	54	-11.41	31.48	6.29	37.18	194	33	Average
10600	45.07	48.75	54	-8.93	39.57	9.16	52.41	118	256	Average
10600	54.55	58.23	74	-19.45	39.57	9.16	52.41	118	256	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5300 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5320	94.02	93.47			31.45	6.29	37.19	198	131	Average
5320	101.62	101.07			31.45	6.29	37.19	198	131	Peak
5351.54	46.87	46.28	54	-7.13	31.48	6.29	37.18	198	131	Average
5363.53	61.7	61.08	74	-12.3	31.49	6.31	37.18	198	131	Peak
10640	45.3	48.75	54	-8.7	39.62	9.2	52.27	182	89	Average
10640	55.58	59.03	74	-18.42	39.62	9.2	52.27	182	89	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5320	97.51	96.96			31.45	6.29	37.19	193	34	Average
5320	105.14	104.59			31.45	6.29	37.19	193	34	Peak
5350	48.47	47.88	54	-5.53	31.48	6.29	37.18	193	34	Average
5353.41	60.44	59.85	74	-13.56	31.48	6.29	37.18	193	34	Peak
10640	45.3	48.75	54	-8.7	39.62	9.2	52.27	119	261	Average
10640	56.34	59.79	74	-17.66	39.62	9.2	52.27	119	261	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5320 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5448.4	52.87	52.1	74	-21.13	31.56	6.34	37.13	198	116	Peak
5460.08	42.64	41.82	54	-11.36	31.56	6.34	37.08	198	116	Average
*5470	59.16	58.33	68.2	-9.04	31.57	6.34	37.08	198	116	Peak
5500	94.47	93.54			31.6	6.36	37.03	198	116	Average
5500	101.8	100.87			31.6	6.36	37.03	198	116	Peak
*5723.96	51.35	50.13	68.2	-16.85	31.96	6.69	37.43	198	116	Peak
11000	46	49.9	54	-8	40.2	9.35	53.45	145	281	Average
11000	55.74	59.64	74	-18.26	40.2	9.35	53.45	145	281	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5458.32	51.75	50.93	74	-22.25	31.56	6.34	37.08	196	77	Peak
5459.76	44.27	43.45	54	-9.73	31.56	6.34	37.08	196	77	Average
*5469.2	57.22	56.39	68.2	-10.98	31.57	6.34	37.08	196	77	Peak
5500	98.33	97.4			31.6	6.36	37.03	196	77	Average
5500	105.45	104.52			31.6	6.36	37.03	196	77	Peak
*5725.88	49.96	48.68	68.2	-18.24	31.96	6.75	37.43	196	77	Peak
11000	46.48	50.38	54	-7.52	40.2	9.35	53.45	122	45	Average
11000	56.17	60.07	74	-17.83	40.2	9.35	53.45	122	45	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5500 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5407.76	50.67	50.01	74	-23.33	31.52	6.32	37.18	195	118	Peak
5416.56	41.03	40.36	54	-12.97	31.53	6.32	37.18	195	118	Average
*5470.8	49.98	49.15	68.2	-18.22	31.57	6.34	37.08	195	118	Peak
5580	95.88	94.84			31.71	6.49	37.16	195	118	Average
5580	103.37	102.33			31.71	6.49	37.16	195	118	Peak
*5724.52	50.1	48.88	68.2	-18.1	31.96	6.69	37.43	195	118	Peak
11160	46.14	49.86	54	-7.86	40.1	9.57	53.39	142	289	Average
11160	55.81	59.53	74	-18.19	40.1	9.57	53.39	142	289	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5411.12	51.43	50.77	74	-22.57	31.52	6.32	37.18	198	71	Peak
5430.32	41.24	40.5	54	-12.76	31.55	6.32	37.13	198	71	Average
*5470	50.2	49.37	68.2	-18	31.57	6.34	37.08	198	71	Peak
5580	99.48	98.44			31.71	6.49	37.16	198	71	Average
5580	106.72	105.68			31.71	6.49	37.16	198	71	Peak
*5725.08	51.2	49.92	68.2	-17	31.96	6.75	37.43	198	71	Peak
11160	46.79	50.51	54	-7.21	40.1	9.57	53.39	125	51	Average
11160	56.65	60.37	74	-17.35	40.1	9.57	53.39	125	51	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5580 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5361.68	50.77	50.15	74	-23.23	31.49	6.31	37.18	176	71	Peak
5443.6	41.33	40.57	54	-12.67	31.55	6.34	37.13	176	71	Average
*5468.08	49.36	48.53	68.2	-18.84	31.57	6.34	37.08	176	71	Peak
5700	93.57	92.38			31.9	6.69	37.4	176	71	Average
5700	101	99.81			31.9	6.69	37.4	176	71	Peak
*5724.6	61.65	60.43	68.2	-6.55	31.96	6.69	37.43	176	71	Peak
11400	46.46	48.72	54	-7.54	39.96	9.91	52.13	148	287	Average
11400	58.46	60.72	74	-15.54	39.96	9.91	52.13	148	287	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5415.76	50.95	50.28	74	-23.05	31.53	6.32	37.18	197	77	Peak
5447.12	41.49	40.72	54	-12.51	31.56	6.34	37.13	197	77	Average
*5470.96	49.56	48.73	68.2	-18.64	31.57	6.34	37.08	197	77	Peak
5700	97.51	96.32			31.9	6.69	37.4	197	77	Average
5700	104.61	103.42			31.9	6.69	37.4	197	77	Peak
*5724.04	63.24	62.02	68.2	-4.96	31.96	6.69	37.43	197	77	Peak
11400	46.85	49.11	54	-7.15	39.96	9.91	52.13	123	48	Average
11400	58.3	60.56	74	-15.7	39.96	9.91	52.13	123	48	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5700 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5745	98.48	97.21			31.99	6.75	37.47	197	55	Average
5745	104.62	103.35			31.99	6.75	37.47	197	55	Peak
11490	45.86	48.75	54	-8.14	39.91	10.03	52.83	138	305	Average
11490	55.4	58.29	74	-18.6	39.91	10.03	52.83	138	305	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5745	99.93	98.66			31.99	6.75	37.47	199	76	Average
5745	106.77	105.5			31.99	6.75	37.47	199	76	Peak
11490	45.27	48.16	54	-8.73	39.91	10.03	52.83	133	33	Average
11490	55.27	58.16	74	-18.73	39.91	10.03	52.83	133	33	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5626.475	51.37	50.24	68.2	-16.83	31.79	6.56	37.22	197	55	Peak
5657.35	51.66	50.53	73.66	-22	31.85	6.62	37.34	197	55	Peak
5913.85	52.37	50.6	76.42	-24.05	32.26	7.01	37.5	197	55	Peak
5996.5	51.63	49.6	68.2	-16.57	32.4	7.14	37.51	197	55	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5640.725	51.34	50.24	68.2	-16.86	31.82	6.56	37.28	199	76	Peak
5657.825	50.48	49.35	74.01	-23.53	31.85	6.62	37.34	199	76	Peak
5917.175	50.21	48.44	73.97	-23.76	32.26	7.01	37.5	199	76	Peak
6001.25	51.92	49.89	68.2	-16.28	32.4	7.14	37.51	199	76	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5745 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5785	97.21	95.89			32.04	6.82	37.54	197	58	Average
5785	104.19	102.87			32.04	6.82	37.54	197	58	Peak
11570	45.3	48.76	54	-8.7	39.78	10.09	53.33	138	309	Average
11570	55.49	58.95	74	-18.51	39.78	10.09	53.33	138	309	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5785	99.73	98.41			32.04	6.82	37.54	195	73	Average
5785	106.95	105.63			32.04	6.82	37.54	195	73	Peak
11570	45.19	48.65	54	-8.81	39.78	10.09	53.33	135	45	Average
11570	54.83	58.29	74	-19.17	39.78	10.09	53.33	135	45	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5567.575	50.66	49.58	68.2	-17.54	31.71	6.49	37.12	197	58	Peak
5655.925	50.08	48.95	72.6	-22.52	31.85	6.62	37.34	197	58	Peak
5916.225	50.56	48.79	74.67	-24.11	32.26	7.01	37.5	197	58	Peak
5956.6	52.11	50.19	68.2	-16.09	32.34	7.08	37.5	197	58	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5610.8	51.99	50.88	68.2	-16.21	31.77	6.56	37.22	195	73	Peak
5656.4	48.47	47.34	72.95	-24.48	31.85	6.62	37.34	195	73	Peak
5918.6	49.67	47.9	72.92	-23.25	32.26	7.01	37.5	195	73	Peak
5962.775	51.78	49.87	68.2	-16.42	32.34	7.08	37.51	195	73	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5785 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5825	97.6	96.13			32.12	6.88	37.53	196	58	Average
5825	104.82	103.35			32.12	6.88	37.53	196	58	Peak
11650	45.32	48.87	54	-8.68	39.65	10.15	53.35	141	309	Average
11650	53.3	56.85	74	-20.7	39.65	10.15	53.35	141	309	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5825	100.3	98.83			32.12	6.88	37.53	195	74	Average
5825	106.75	105.28			32.12	6.88	37.53	195	74	Peak
11650	45.24	48.79	54	-8.76	39.65	10.15	53.35	131	42	Average
11650	54.68	58.23	74	-19.32	39.65	10.15	53.35	131	42	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5612.225	52.83	51.72	68.2	-15.37	31.77	6.56	37.22	196	58	Peak
5654.5	48.25	47.12	71.54	-23.29	31.85	6.62	37.34	196	58	Peak
5921.925	49.41	47.61	70.47	-21.06	32.29	7.01	37.5	196	58	Peak
5955.65	52.55	50.63	68.2	-15.65	32.34	7.08	37.5	196	58	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5585.15	50.32	49.25	68.2	-17.88	31.74	6.49	37.16	195	74	Peak
5662.1	50.85	49.72	77.18	-26.33	31.85	6.62	37.34	195	74	Peak
5918.6	51.24	49.47	72.92	-21.68	32.26	7.01	37.5	195	74	Peak
6019.3	52.24	50.15	68.2	-15.96	32.45	7.14	37.5	195	74	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5825 MHz: Fundamental Frequency
- *: Out of Restricted Band

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 38	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5149.85	55.98	55.78	74	-18.02	31.32	6.2	37.32	189	132	Peak
5150	47.98	47.78	54	-6.02	31.32	6.2	37.32	189	132	Average
5190	89.38	89.15			31.35	6.22	37.34	189	132	Average
5190	96.85	96.62			31.35	6.22	37.34	189	132	Peak
5391.8	51.15	50.51	74	-22.85	31.51	6.31	37.18	189	132	Peak
5447.68	41.07	40.3	54	-12.93	31.56	6.34	37.13	189	132	Average
*10380	53.41	57.4	68.2	-14.79	39.21	9.05	52.25	192	102	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5146.55	55.44	55.24	74	-18.56	31.32	6.2	37.32	208	37	Peak
5150	46.99	46.79	54	-7.01	31.32	6.2	37.32	208	37	Average
5190	91.28	91.05			31.35	6.22	37.34	208	37	Average
5190	98.38	98.15			31.35	6.22	37.34	208	37	Peak
5385.97	50.79	50.15	74	-23.21	31.51	6.31	37.18	208	37	Peak
5439.98	41.32	40.56	54	-12.68	31.55	6.34	37.13	208	37	Average
*10380	56.12	60.11	68.2	-12.08	39.21	9.05	52.25	115	253	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5190 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 46	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5146.55	52.4	52.2	74	-21.6	31.32	6.2	37.32	188	135	Peak
5149.7	43.01	42.81	54	-10.99	31.32	6.2	37.32	188	135	Average
5230	94.58	94.27			31.39	6.24	37.32	188	135	Average
5230	101.98	101.67			31.39	6.24	37.32	188	135	Peak
5373.76	41.56	40.94	54	-12.44	31.49	6.31	37.18	188	135	Average
5438.99	50.92	50.16	74	-23.08	31.55	6.34	37.13	188	135	Peak
*10460	54.42	58.61	68.2	-13.78	39.32	9.09	52.6	185	102	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5147.6	52.22	52.02	74	-21.78	31.32	6.2	37.32	209	32	Peak
5150	43.63	43.43	54	-10.37	31.32	6.2	37.32	209	32	Average
5230	95.72	95.41			31.39	6.24	37.32	209	32	Average
5230	103.03	102.72			31.39	6.24	37.32	209	32	Peak
5372.55	42.17	41.55	54	-11.83	31.49	6.31	37.18	209	32	Average
5432.83	50.47	49.73	74	-23.53	31.55	6.32	37.13	209	32	Peak
*10460	53.16	57.35	68.2	-15.04	39.32	9.09	52.6	117	255	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5230 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 54	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5080.85	51.2	51.03	74	-22.8	31.27	6.17	37.27	198	133	Peak
5127.8	41.88	41.67	54	-12.12	31.31	6.2	37.3	198	133	Average
5270	92.78	92.39			31.41	6.25	37.27	198	133	Average
5270	99.61	99.22			31.41	6.25	37.27	198	133	Peak
5350.44	51.61	51.02	74	-22.39	31.48	6.29	37.18	198	133	Peak
5351.65	43.45	42.86	54	-10.55	31.48	6.29	37.18	198	133	Average
*10540	55.23	59.34	68.2	-12.97	39.46	9.12	52.69	189	92	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5126.75	42.14	41.93	54	-11.86	31.31	6.2	37.3	195	39	Average
5126.9	51.53	51.32	74	-22.47	31.31	6.2	37.3	195	39	Peak
5270	95.5	95.11			31.41	6.25	37.27	195	39	Average
5270	102.53	102.14			31.41	6.25	37.27	195	39	Peak
5350	43.61	43.02	54	-10.39	31.48	6.29	37.18	195	39	Average
5352.97	52.79	52.2	74	-21.21	31.48	6.29	37.18	195	39	Peak
*10540	54.64	58.75	68.2	-13.56	39.46	9.12	52.69	118	265	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5270 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 62	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5057	41.12	40.95	54	-12.88	31.25	6.17	37.25	196	134	Average
5124.65	50.52	50.32	74	-23.48	31.31	6.19	37.3	196	134	Peak
5310	89.97	89.44			31.45	6.27	37.19	196	134	Average
5310	96.77	96.24			31.45	6.27	37.19	196	134	Peak
5351.32	56.37	55.78	74	-17.63	31.48	6.29	37.18	196	134	Peak
5351.54	45.27	44.68	54	-8.73	31.48	6.29	37.18	196	134	Average
10620	45.36	48.95	54	-8.64	39.59	9.16	52.34	198	94	Average
10620	56.03	59.62	74	-17.97	39.59	9.16	52.34	198	94	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5000	41.32	41.22	54	-12.68	31.2	6.13	37.23	196	28	Average
5069	50.87	50.72	74	-23.13	31.25	6.17	37.27	196	28	Peak
5310	93.08	92.55			31.45	6.27	37.19	196	28	Average
5310	100.47	99.94			31.45	6.27	37.19	196	28	Peak
5350	49.14	48.55	54	-4.86	31.48	6.29	37.18	196	28	Average
5350.77	61.11	60.52	74	-12.89	31.48	6.29	37.18	196	28	Peak
10620	45.36	48.95	54	-8.64	39.59	9.16	52.34	118	260	Average
10620	54.49	58.08	74	-19.51	39.59	9.16	52.34	118	260	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5310 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 102	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5452.72	51.62	50.8	74	-22.38	31.56	6.34	37.08	195	120	Peak
5460.08	43.64	42.82	54	-10.36	31.56	6.34	37.08	195	120	Average
*5468.88	54.24	53.41	68.2	-13.96	31.57	6.34	37.08	195	120	Peak
5510	86.23	85.33			31.6	6.36	37.06	195	120	Average
5510	93.83	92.93			31.6	6.36	37.06	195	120	Peak
*5724.92	50.54	49.32	68.2	-17.66	31.96	6.69	37.43	195	120	Peak
11020	45.26	49.21	54	-8.74	40.19	9.35	53.49	122	304	Average
11020	55.16	59.11	74	-18.84	40.19	9.35	53.49	122	304	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5439.6	50.99	50.23	74	-23.01	31.55	6.34	37.13	200	75	Peak
5459.92	43.88	43.06	54	-10.12	31.56	6.34	37.08	200	75	Average
*5470.8	57.6	56.77	68.2	-10.6	31.57	6.34	37.08	200	75	Peak
5510	89.81	88.91			31.6	6.36	37.06	200	75	Average
5510	97.37	96.47			31.6	6.36	37.06	200	75	Peak
*5724.04	51.19	49.97	68.2	-17.01	31.96	6.69	37.43	200	75	Peak
11020	46.46	50.41	54	-7.54	40.19	9.35	53.49	112	53	Average
11020	55.8	59.75	74	-18.2	40.19	9.35	53.49	112	53	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5510 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 110	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5439.12	50.71	49.95	74	-23.29	31.55	6.34	37.13	194	119	Peak
5459.44	41.79	40.97	54	-12.21	31.56	6.34	37.08	194	119	Average
*5470.96	52.19	51.36	68.2	-16.01	31.57	6.34	37.08	194	119	Peak
5550	91.09	90.08			31.68	6.42	37.09	194	119	Average
5550	98.66	97.65			31.68	6.42	37.09	194	119	Peak
*5724.52	49.83	48.61	68.2	-18.37	31.96	6.69	37.43	194	119	Peak
11100	45.37	49.38	54	-8.63	40.14	9.46	53.61	129	295	Average
11100	55.9	59.91	74	-18.1	40.14	9.46	53.61	129	295	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5438.64	50.89	50.13	74	-23.11	31.55	6.34	37.13	201	71	Peak
5459.6	42.32	41.5	54	-11.68	31.56	6.34	37.08	201	71	Average
*5470	51.45	50.62	68.2	-16.75	31.57	6.34	37.08	201	71	Peak
5550	95.09	94.08			31.68	6.42	37.09	201	71	Average
5550	102.37	101.36			31.68	6.42	37.09	201	71	Peak
*5724.28	49.76	48.54	68.2	-18.44	31.96	6.69	37.43	201	71	Peak
11100	46.13	50.14	54	-7.87	40.14	9.46	53.61	118	56	Average
11100	55.99	60	74	-18.01	40.14	9.46	53.61	118	56	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5550 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 134	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5378.64	50.82	50.18	74	-23.18	31.51	6.31	37.18	172	62	Peak
5442.64	41.42	40.66	54	-12.58	31.55	6.34	37.13	172	62	Average
*5468.24	49.63	48.8	68.2	-18.57	31.57	6.34	37.08	172	62	Peak
5670	88.83	87.67			31.88	6.62	37.34	172	62	Average
5670	96.33	95.17			31.88	6.62	37.34	172	62	Peak
*5724.52	56.57	55.35	68.2	-11.63	31.96	6.69	37.43	172	62	Peak
11340	46.45	49.16	54	-7.55	40	9.8	52.51	127	284	Average
11340	58.07	60.78	74	-15.93	40	9.8	52.51	127	284	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5447.76	51.12	50.35	74	-22.88	31.56	6.34	37.13	199	75	Peak
5458.48	41.69	40.87	54	-12.31	31.56	6.34	37.08	199	75	Average
*5469.52	49.72	48.89	68.2	-18.48	31.57	6.34	37.08	199	75	Peak
5670	92.48	91.32			31.88	6.62	37.34	199	75	Average
5670	99.8	98.64			31.88	6.62	37.34	199	75	Peak
*5724.76	54.77	53.55	68.2	-13.43	31.96	6.69	37.43	199	75	Peak
11340	46.52	49.23	54	-7.48	40	9.8	52.51	115	55	Average
11340	58.32	61.03	74	-15.68	40	9.8	52.51	115	55	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5670 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 151	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5755	94.01	92.72			32.01	6.75	37.47	196	57	Average
5755	101.84	100.55			32.01	6.75	37.47	196	57	Peak
11510	45.61	48.75	54	-8.39	39.9	10.03	53.07	141	301	Average
11510	55.23	58.37	74	-18.77	39.9	10.03	53.07	141	301	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5755	96.3	95.01			32.01	6.75	37.47	197	76	Average
5755	103.44	102.15			32.01	6.75	37.47	197	76	Peak
11510	45.84	48.98	54	-8.16	39.9	10.03	53.07	129	36	Average
11510	55.4	58.54	74	-18.6	39.9	10.03	53.07	129	36	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5636.45	52.94	51.84	68.2	-15.26	31.82	6.56	37.28	196	57	Peak
5660.2	50.26	49.13	75.77	-25.51	31.85	6.62	37.34	196	57	Peak
5919.075	50.73	48.96	72.57	-21.84	32.26	7.01	37.5	196	57	Peak
5977.5	52.53	50.59	68.2	-15.67	32.37	7.08	37.51	196	57	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5638.35	50.98	49.88	68.2	-17.22	31.82	6.56	37.28	197	76	Peak
5659.725	51.34	50.21	75.42	-24.08	31.85	6.62	37.34	197	76	Peak
5911.475	52.37	50.6	78.18	-25.81	32.26	7.01	37.5	197	76	Peak
5949	52.68	50.78	68.2	-15.52	32.32	7.08	37.5	197	76	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5755 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 159	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5795	93.63	92.28			32.07	6.82	37.54	197	56	Average
5795	101.1	99.75			32.07	6.82	37.54	197	56	Peak
11590	45.26	48.76	54	-8.74	39.74	10.09	53.33	141	302	Average
11590	54.31	57.81	74	-19.69	39.74	10.09	53.33	141	302	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5795	97.28	95.93			32.07	6.82	37.54	199	77	Average
5795	103.81	102.46			32.07	6.82	37.54	199	77	Peak
11590	45.46	48.96	54	-8.54	39.74	10.09	53.33	128	36	Average
11590	54.04	57.54	74	-19.96	39.74	10.09	53.33	128	36	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5636.925	50.66	49.56	68.2	-17.54	31.82	6.56	37.28	197	56	Peak
5657.35	50.92	49.79	73.66	-22.74	31.85	6.62	37.34	197	56	Peak
5919.075	51.01	49.24	72.57	-21.56	32.26	7.01	37.5	197	56	Peak
5934.75	52.77	50.97	68.2	-15.43	32.29	7.01	37.5	197	56	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5622.2	51.74	50.61	68.2	-16.46	31.79	6.56	37.22	199	77	Peak
5653.55	51.52	50.33	70.84	-19.32	31.85	6.62	37.28	199	77	Peak
5920.5	50.9	49.13	71.52	-20.62	32.26	7.01	37.5	199	77	Peak
5952.325	52.05	50.15	68.2	-16.15	32.32	7.08	37.5	199	77	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5795 MHz: Fundamental Frequency
- *: Out of Restricted Band

802.11ac (VHT80)

EUT Test Condition		Measurement Detail	
Channel	Channel 42	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5126.45	60.12	59.91	74	-13.88	31.31	6.2	37.3	189	137	Peak
5132.9	49.69	49.48	54	-4.31	31.31	6.2	37.3	189	137	Average
5210	84.39	84.14			31.37	6.24	37.36	189	137	Average
5210	90.18	89.93			31.37	6.24	37.36	189	137	Peak
5423.04	42.79	42.12	54	-11.21	31.53	6.32	37.18	189	137	Average
5453.51	50.77	49.95	74	-23.23	31.56	6.34	37.08	189	137	Peak
*10420	54.54	58.54	68.2	-13.66	39.27	9.09	52.36	181	200	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5113.55	51.2	51	54	-2.8	31.29	6.19	37.28	207	33	Average
5126.75	60.02	59.81	74	-13.98	31.31	6.2	37.3	207	33	Peak
5210	87.36	87.11			31.37	6.24	37.36	207	33	Average
5210	93.9	93.65			31.37	6.24	37.36	207	33	Peak
5437.01	42.64	41.88	54	-11.36	31.55	6.34	37.13	207	33	Average
5449.88	50.7	49.88	74	-23.3	31.56	6.34	37.08	207	33	Peak
*10420	54.34	58.34	68.2	-13.86	39.27	9.09	52.36	115	256	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5210 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 58	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5028.65	50.31	50.17	74	-23.69	31.23	6.15	37.24	196	128	Peak
5102.3	42.4	42.21	54	-11.6	31.28	6.19	37.28	196	128	Average
5290	84.41	83.94			31.43	6.27	37.23	196	128	Average
5290	90.72	90.25			31.43	6.27	37.23	196	128	Peak
5360.45	49.94	49.33	54	-4.06	31.48	6.31	37.18	196	128	Average
5385.75	57.45	56.81	74	-16.55	31.51	6.31	37.18	196	128	Peak
*10580	53.54	57.25	68.2	-14.66	39.54	9.16	52.41	189	98	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5000	41.34	41.24	54	-12.66	31.2	6.13	37.23	196	37	Average
5000.15	51.7	51.6	74	-22.3	31.2	6.13	37.23	196	37	Peak
5290	87.6	87.13			31.43	6.27	37.23	196	37	Average
5290	94.86	94.39			31.43	6.27	37.23	196	37	Peak
5360.56	46.98	46.36	54	-7.02	31.49	6.31	37.18	196	37	Average
5386.63	61.91	61.27	74	-12.09	31.51	6.31	37.18	196	37	Peak
*10580	54.1	57.81	68.2	-14.1	39.54	9.16	52.41	116	266	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5290 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 106	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5452.72	45.61	44.79	54	-8.39	31.56	6.34	37.08	193	123	Average
5453.36	55.89	55.07	74	-18.11	31.56	6.34	37.08	193	123	Peak
*5468.24	50.7	49.87	68.2	-17.5	31.57	6.34	37.08	193	123	Peak
5530	81.33	80.37			31.63	6.42	37.09	193	123	Average
5530	88.68	87.72			31.63	6.42	37.09	193	123	Peak
*5724.12	49.64	48.42	68.2	-18.56	31.96	6.69	37.43	193	123	Peak
11060	45.92	49.87	54	-8.08	40.16	9.46	53.57	134	292	Average
11060	55.75	59.7	74	-18.25	40.16	9.46	53.57	134	292	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5443.92	53.24	52.48	74	-20.76	31.55	6.34	37.13	199	73	Peak
5453.36	45.53	44.71	54	-8.47	31.56	6.34	37.08	199	73	Average
*5469.2	53.09	52.26	68.2	-15.11	31.57	6.34	37.08	199	73	Peak
5530	84.33	83.37			31.63	6.42	37.09	199	73	Average
5530	91.77	90.81			31.63	6.42	37.09	199	73	Peak
*5724.44	51.6	50.38	68.2	-16.6	31.96	6.69	37.43	199	73	Peak
11060	46.36	50.31	54	-7.64	40.16	9.46	53.57	116	41	Average
11060	55.37	59.32	74	-18.63	40.16	9.46	53.57	116	41	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5530 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 122	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5442	51.88	51.12	74	-22.12	31.55	6.34	37.13	181	65	Peak
5451.6	41.5	40.68	54	-12.5	31.56	6.34	37.08	181	65	Average
*5470.64	49.23	48.4	68.2	-18.97	31.57	6.34	37.08	181	65	Peak
5610	81.42	80.31			31.77	6.56	37.22	181	65	Average
5610	88.49	87.38			31.77	6.56	37.22	181	65	Peak
*5725.88	51.02	49.74	68.2	-17.18	31.96	6.75	37.43	181	65	Peak
11220	46.01	49.28	54	-7.99	40.07	9.69	53.03	141	299	Average
11220	54.67	57.94	74	-19.33	40.07	9.69	53.03	141	299	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5414.32	50.29	49.62	74	-23.71	31.53	6.32	37.18	200	74	Peak
5445.04	41.65	40.89	54	-12.35	31.55	6.34	37.13	200	74	Average
*5469.68	49.13	48.3	68.2	-19.07	31.57	6.34	37.08	200	74	Peak
5610	84.3	83.19			31.77	6.56	37.22	200	74	Average
5610	91.75	90.64			31.77	6.56	37.22	200	74	Peak
*5724.92	49.76	48.54	68.2	-18.44	31.96	6.69	37.43	200	74	Peak
11220	46.84	50.11	54	-7.16	40.07	9.69	53.03	114	37	Average
11220	55.45	58.72	74	-18.55	40.07	9.69	53.03	114	37	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5610 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 155	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

<Spurious Emission>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5775	92.26	90.9			32.04	6.82	37.5	189	56	Average
5775	98.17	96.81			32.04	6.82	37.5	189	56	Peak
11550	45.3	48.64	54	-8.7	39.81	10.09	53.24	141	308	Average
11550	53.61	56.95	74	-20.39	39.81	10.09	53.24	141	308	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5775	93.18	91.82			32.04	6.82	37.5	196	74	Average
5775	99.62	98.26			32.04	6.82	37.5	196	74	Peak
11550	45.64	48.98	54	-8.36	39.81	10.09	53.24	138	38	Average
11550	55.03	58.37	74	-18.97	39.81	10.09	53.24	138	38	Peak

<Out of Band Emission (OOBE)>

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5620.3	62.09	60.96	68.2	-6.11	31.79	6.56	37.22	189	56	Peak
5655.45	59.78	58.65	72.25	-12.47	31.85	6.62	37.34	189	56	Peak
5921.45	60.16	58.39	70.82	-10.66	32.26	7.01	37.5	189	56	Peak
5985.1	63.01	61.01	68.2	-5.19	32.37	7.14	37.51	189	56	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5649.275	63.19	62.03	68.2	-5.01	31.82	6.62	37.28	196	74	Peak
5659.25	65.12	63.99	75.07	-9.95	31.85	6.62	37.34	196	74	Peak
5923.35	62.68	60.88	69.42	-6.74	32.29	7.01	37.5	196	74	Peak
5963.725	62.75	60.84	68.2	-5.45	32.34	7.08	37.51	196	74	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5775 MHz: Fundamental Frequency
- *: Out of Restricted Band

Co-location:

802.11n (HT20) + Zigbee

EUT Test Condition		Measurement Detail	
WLAN Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Zigbee Channel	Channel 11		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
4810	43.27	58.61	54	-10.73	30.97	6.79	53.1	200	31	Average
4810	50.18	65.52	74	-23.82	30.97	6.79	53.1	200	31	Peak
11160	46.1	49.82	54	-7.9	40.1	9.57	53.39	128	63	Average
11160	56.49	60.21	74	-17.51	40.1	9.57	53.39	128	63	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
4810	44.13	59.47	54	-9.87	30.97	6.79	53.1	109	128	Average
4810	51.19	66.53	74	-22.81	30.97	6.79	53.1	109	128	Peak
11160	46.18	49.9	54	-7.82	40.1	9.57	53.39	126	59	Average
11160	55.81	59.53	74	-18.19	40.1	9.57	53.39	126	59	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

802.11n (HT20) + Z-Wave

EUT Test Condition		Measurement Detail	
WLAN Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Z-Wave Channel	Channel 2 (908.40 MHz)		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2725.2	49.3	70.22	54	-4.7	27.76	4.86	53.54	167	105	Average
2725.2	52.7	73.62	74	-21.3	27.76	4.86	53.54	167	105	Peak
3633.6	43	62.22	54	-11	29.02	5.76	54	197	85	Average
3633.6	47.81	67.03	74	-26.19	29.02	5.76	54	197	85	Peak
11160	46.42	50.14	54	-7.58	40.1	9.57	53.39	162	354	Average
11160	56.48	60.2	74	-17.52	40.1	9.57	53.39	162	354	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2725.2	47.79	68.71	54	-6.21	27.76	4.86	53.54	186	120	Average
2725.2	50.9	71.82	74	-23.1	27.76	4.86	53.54	186	120	Peak
3633.6	39.01	58.23	54	-14.99	29.02	5.76	54	211	281	Average
3633.6	43.19	62.41	74	-30.81	29.02	5.76	54	211	281	Peak
11160	46.54	50.26	54	-7.46	40.1	9.57	53.39	184	211	Average
11160	56.34	60.06	74	-17.66	40.1	9.57	53.39	184	211	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

9 kHz ~ 30 MHz DATA:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz WORST-CASE DATA:

802.11ac (VHT80)

EUT Test Condition		Measurement Detail	
Channel	Channel 42	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	32.95	51.38	43.5	-10.55	12.14	1.14	31.71	104	359	Peak
209.45	39.38	59.89	43.5	-4.12	9.77	1.33	31.61	107	334	Peak
248.25	36.17	55.2	46	-9.83	11.4	1.48	31.91	102	329	Peak
321.97	40.66	57.37	46	-5.34	13.47	1.69	31.87	133	124	Peak
453.89	34.43	48.01	46	-11.57	16.41	1.99	31.98	102	245	Peak
515	29.5	41.3	46	-16.5	17.66	2.12	31.58	139	280	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
207.51	40.35	60.97	43.5	-3.15	9.69	1.33	31.64	117	56	Peak
256.01	36.24	54.97	46	-9.76	11.65	1.51	31.89	111	305	Peak
321	41.57	58.31	46	-4.43	13.45	1.69	31.88	117	146	Peak
382.11	35.48	50.68	46	-10.52	14.91	1.86	31.97	135	296	Peak
470.38	35	48.13	46	-11	16.73	2.03	31.89	138	32	Peak
524.7	31.4	43.01	46	-14.6	17.88	2.14	31.63	121	159	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

802.11ac (VHT80)

EUT Test Condition		Measurement Detail	
Channel	Channel 58	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	33.27	51.7	43.5	-10.23	12.14	1.14	31.71	106	270	Peak
213.33	39.53	59.88	43.5	-3.97	9.93	1.35	31.63	114	273	Peak
321.97	40.46	57.17	46	-5.54	13.47	1.69	31.87	132	317	Peak
372.41	30.87	46.29	46	-15.13	14.68	1.83	31.93	130	41	Peak
453.89	34.08	47.66	46	-11.92	16.41	1.99	31.98	113	60	Peak
518.88	28.81	40.51	46	-17.19	17.75	2.12	31.57	104	26	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	24.8	43.23	43.5	-18.7	12.14	1.14	31.71	138	234	Peak
209.45	40.36	60.87	43.5	-3.14	9.77	1.33	31.61	132	227	Peak
252.13	36.23	55.12	46	-9.77	11.54	1.49	31.92	120	214	Peak
325.85	41.25	57.82	46	-4.75	13.57	1.7	31.84	126	165	Peak
376.29	35.9	51.22	46	-10.1	14.77	1.85	31.94	134	1	Peak
457.77	35.64	49.15	46	-10.36	16.48	2	31.99	123	104	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	32.86	51.29	43.5	-10.64	12.14	1.14	31.71	116	16	Peak
213.33	39.44	59.79	43.5	-4.06	9.93	1.35	31.63	107	287	Peak
321.97	40.34	57.05	46	-5.66	13.47	1.69	31.87	105	36	Peak
372.41	32.04	47.46	46	-13.96	14.68	1.83	31.93	136	190	Peak
469.41	34.16	47.33	46	-11.84	16.71	2.02	31.9	140	211	Peak
520.82	29.16	40.82	46	-16.84	17.79	2.13	31.58	113	154	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
174.53	29.75	49.09	43.5	-13.75	11.28	1.16	31.78	122	199	Peak
209.45	40.36	60.87	43.5	-3.14	9.77	1.33	31.61	138	253	Peak
325.85	41.34	57.91	46	-4.66	13.57	1.7	31.84	100	141	Peak
382.11	36.22	51.42	46	-9.78	14.91	1.86	31.97	120	77	Peak
457.77	34.95	48.46	46	-11.05	16.48	2	31.99	130	121	Peak
549.92	27.7	39.01	46	-18.3	18.46	2.18	31.95	119	131	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	33.06	51.49	43.5	-10.44	12.14	1.14	31.71	140	33	Peak
209.45	39.42	59.93	43.5	-4.08	9.77	1.33	31.61	122	209	Peak
321	40.73	57.47	46	-5.27	13.45	1.69	31.88	137	126	Peak
474.26	33.95	46.97	46	-12.05	16.81	2.04	31.87	102	166	Peak
522.76	29.14	40.78	46	-16.86	17.84	2.13	31.61	105	358	Peak
728.4	25.13	33.01	46	-20.87	21.22	2.5	31.6	126	124	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
174.53	29.77	49.11	43.5	-13.73	11.28	1.16	31.78	104	35	Peak
211.39	40.63	61.04	43.5	-2.87	9.85	1.34	31.6	113	252	Peak
325.85	41.24	57.81	46	-4.76	13.57	1.7	31.84	109	177	Peak
474.26	35.08	48.1	46	-10.92	16.81	2.04	31.87	123	330	Peak
548.95	28.38	39.69	46	-17.62	18.44	2.18	31.93	110	242	Peak
735.19	24.96	32.67	46	-21.04	21.31	2.51	31.53	120	23	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

Co-location:

802.11n (HT20) + Zigbee

EUT Test Condition		Measurement Detail	
WLAN Channel	Channel 116	Frequency Range	30 MHz ~ 1 GHz
Zigbee Channel	Channel 11		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	32.84	51.27	43.5	-10.66	12.14	1.14	31.71	127	19	Peak
174.53	35.37	54.71	43.5	-8.13	11.28	1.16	31.78	103	177	Peak
209.45	40.44	60.95	43.5	-3.06	9.77	1.33	31.61	122	28	Peak
341.37	37.96	54.1	46	-8.04	13.94	1.74	31.82	113	326	Peak
480.08	34.76	47.63	46	-11.24	16.93	2.05	31.85	129	277	Peak
859.35	27.37	33.59	46	-18.63	22.99	2.69	31.9	138	347	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	29.22	47.65	43.5	-14.28	12.14	1.14	31.71	110	256	Peak
174.53	36.98	56.32	43.5	-6.52	11.28	1.16	31.78	113	103	Peak
205.57	39.72	60.47	43.5	-3.78	9.6	1.32	31.67	135	153	Peak
346.22	41.52	57.55	46	-4.48	14.05	1.75	31.83	111	230	Peak
480.08	32.49	45.36	46	-13.51	16.93	2.05	31.85	121	14	Peak
769.14	26.19	33.15	46	-19.81	21.79	2.56	31.31	138	112	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

802.11n (HT20) + Z-Wave

EUT Test Condition		Measurement Detail	
WLAN Channel	Channel 116	Frequency Range	30 MHz ~ 1 GHz
Z-Wave Channel	Channel 2 (908.40 MHz)		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	32.84	51.27	43.5	-10.66	12.14	1.14	31.71	127	19	Peak
174.53	35.37	54.71	43.5	-8.13	11.28	1.16	31.78	103	177	Peak
209.45	40.44	60.95	43.5	-3.06	9.77	1.33	31.61	122	28	Peak
341.37	37.96	54.1	46	-8.04	13.94	1.74	31.82	113	326	Peak
480.08	34.76	47.63	46	-11.24	16.93	2.05	31.85	129	277	Peak
859.35	27.37	33.59	46	-18.63	22.99	2.69	31.9	138	347	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
136.7	29.22	47.65	43.5	-14.28	12.14	1.14	31.71	110	256	Peak
174.53	36.98	56.32	43.5	-6.52	11.28	1.16	31.78	113	103	Peak
205.57	39.72	60.47	43.5	-3.78	9.6	1.32	31.67	135	153	Peak
346.22	41.52	57.55	46	-4.48	14.05	1.75	31.83	111	230	Peak
480.08	32.49	45.36	46	-13.51	16.93	2.05	31.85	121	14	Peak
769.14	26.19	33.15	46	-19.81	21.79	2.56	31.31	138	112	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable Woken	5D-FB	Cable-cond1-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 28, 2016	Jul. 27, 2017
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

- Note:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

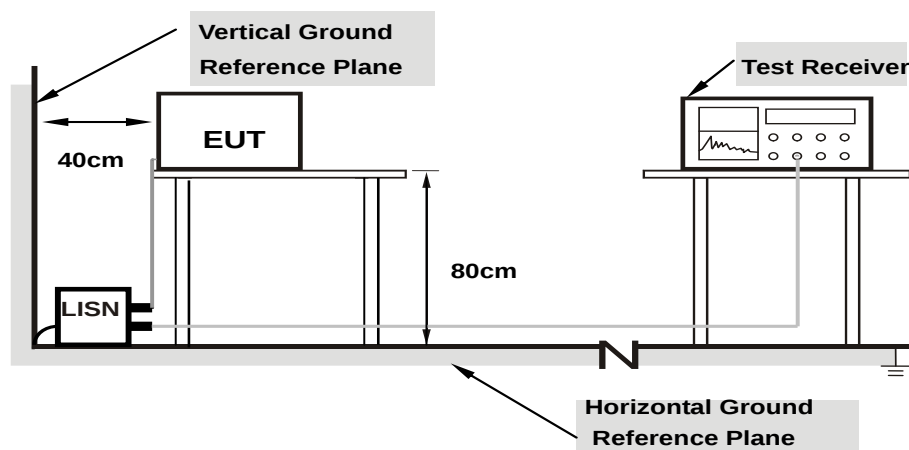
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit -20 dB) was not recorded.

Note: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



- Note:** 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

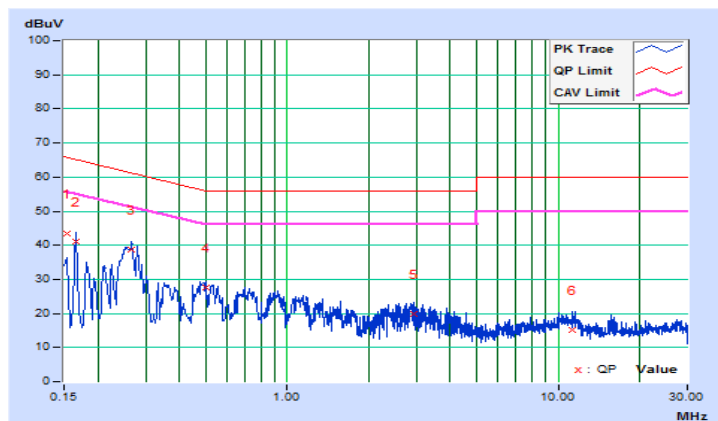
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2017/3/20

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.35	33.12	15.26	43.47	25.61	65.79	55.79	-22.32	-30.18
2	0.16564	10.35	30.79	14.93	41.14	25.28	65.18	55.18	-24.04	-29.90
3	0.26730	10.38	28.29	20.19	38.67	30.57	61.20	51.20	-22.53	-20.63
4	0.50190	10.40	17.17	10.19	27.57	20.59	56.00	46.00	-28.43	-25.41
5	2.93392	10.51	9.31	3.08	19.82	13.59	56.00	46.00	-36.18	-32.41
6	11.26613	10.89	4.41	-1.11	15.30	9.78	60.00	50.00	-44.70	-40.22

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

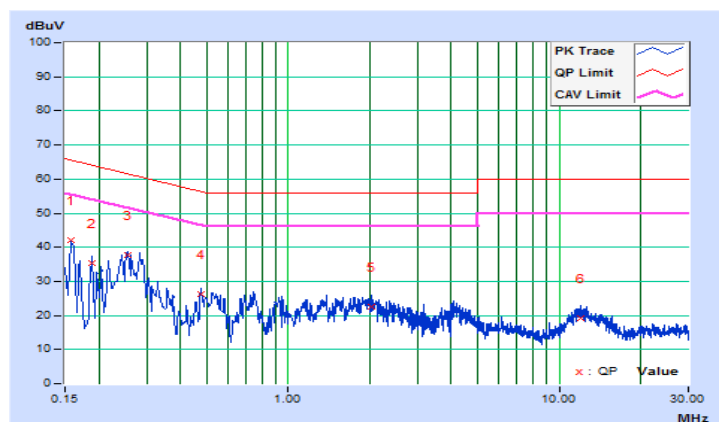


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2017/3/20

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	10.11	31.91	15.88	42.02	25.99	65.58	55.58	-23.56	-29.59
2	0.18903	10.13	25.27	9.47	35.40	19.60	64.08	54.08	-28.68	-34.48
3	0.25458	10.15	27.71	19.54	37.86	29.69	61.61	51.61	-23.75	-21.92
4	0.47453	10.16	16.08	8.81	26.24	18.97	56.43	46.43	-30.19	-27.46
5	2.01898	10.23	12.42	4.18	22.65	14.41	56.00	46.00	-33.35	-31.59
6	11.95038	10.63	8.44	3.16	19.07	13.79	60.00	50.00	-40.93	-36.21

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

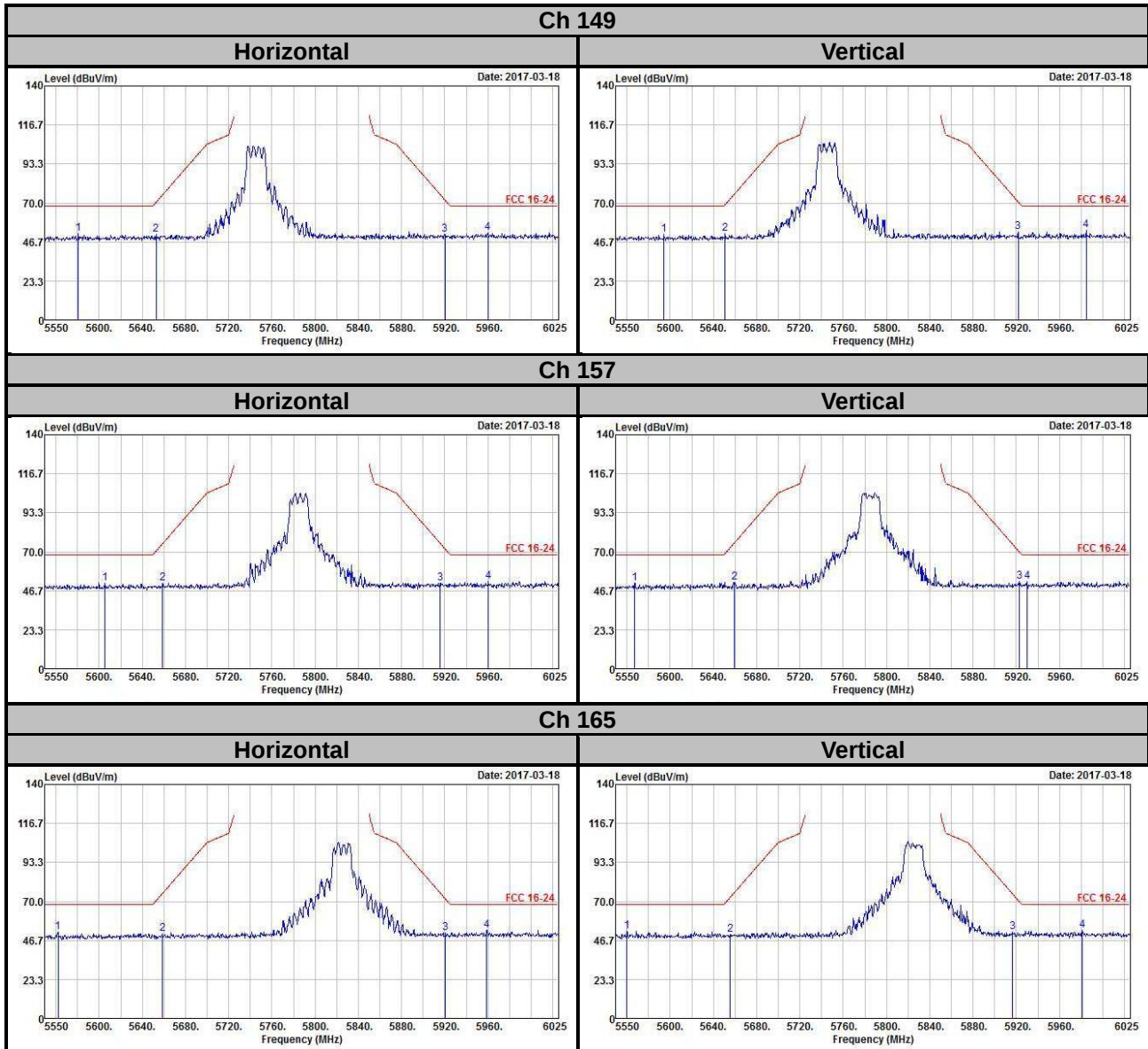


5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emisison (OOBE) Measurement (For U-NII-3 band)

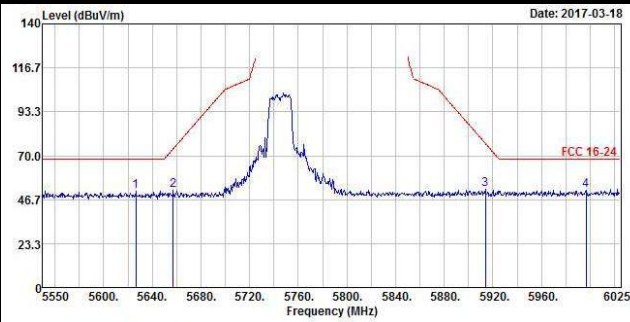
802.11a



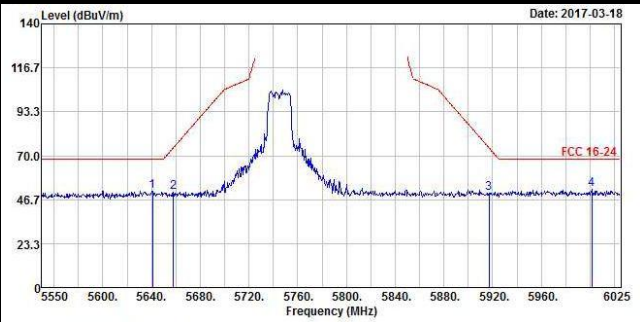
802.11n (HT20)

Ch 149

Horizontal

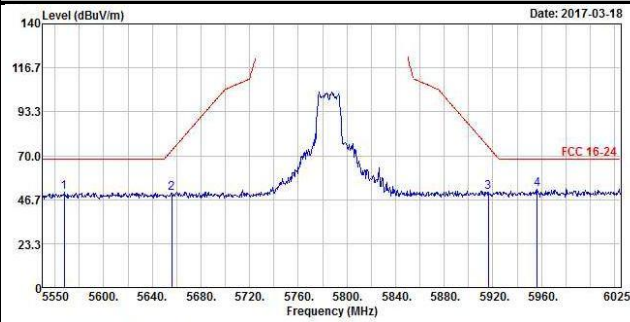


Vertical

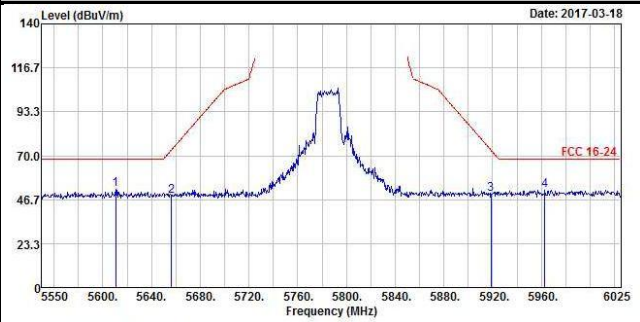


Ch 157

Horizontal

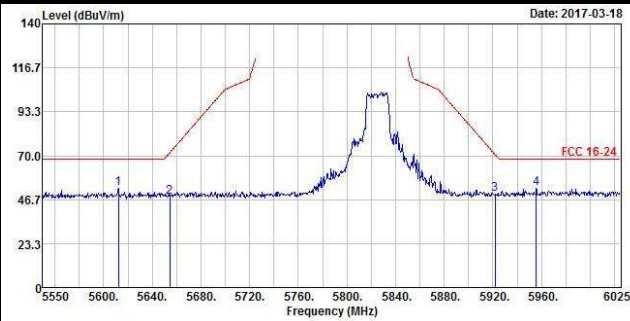


Vertical

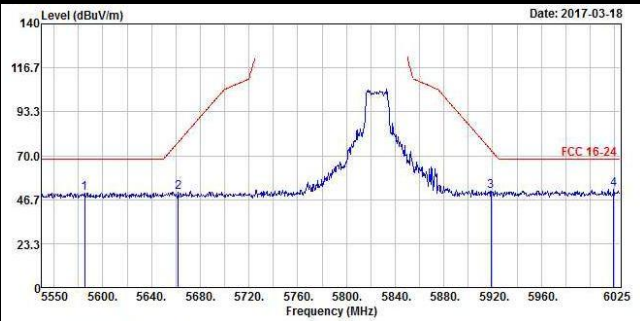


Ch 165

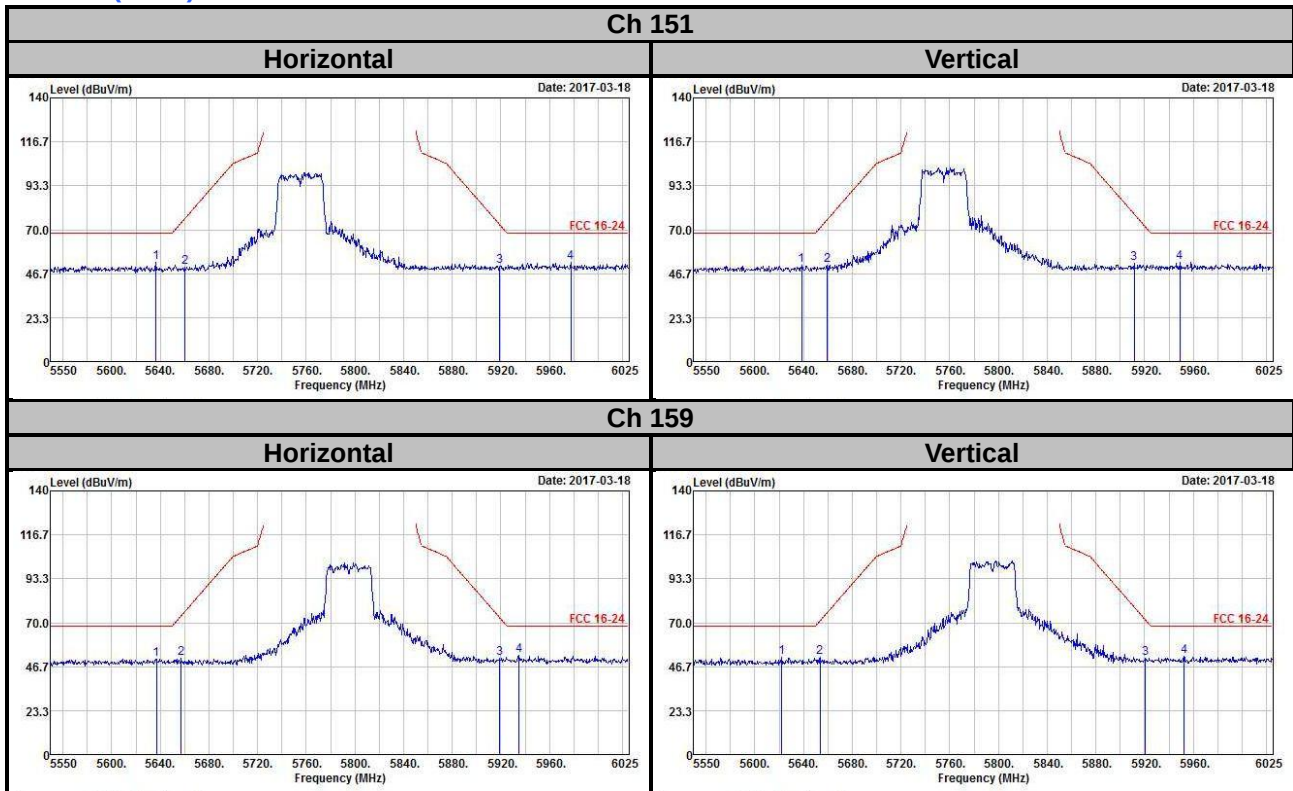
Horizontal



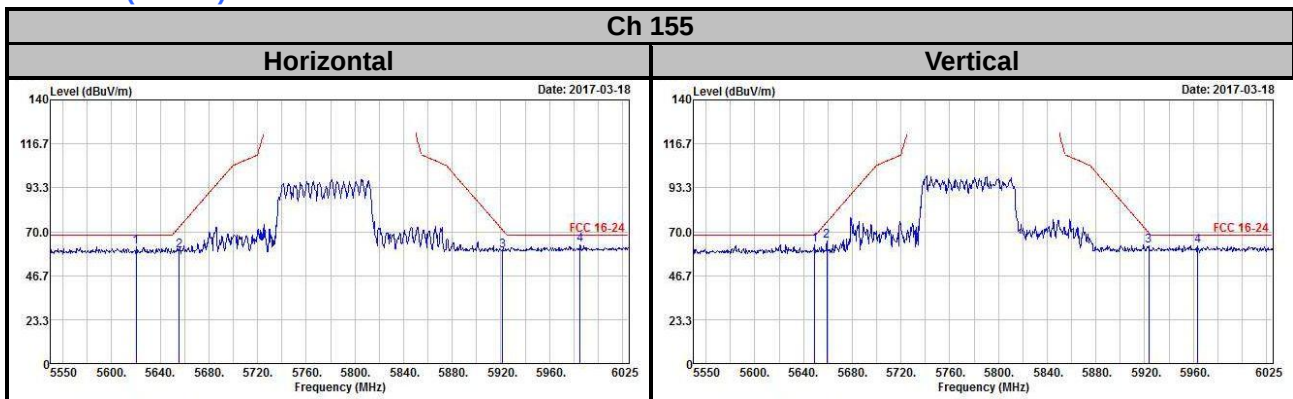
Vertical



802.11n (HT40)



802.11ac (VHT80)



Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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