



FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : LTE/CDMA Multi-Mode Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z6410S
FCC ID : SRQ-Z6410S
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Apr. 02, 2018 and testing was completed on Aug. 01, 2018. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.
No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335
China



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant.....	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	6
1.5 Modification of EUT	6
1.6 Testing Location	7
1.7 Applicable Standards.....	7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1 Carrier Frequency and Channel	8
2.2 Test Mode.....	9
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example.....	11
3 TEST RESULT.....	12
3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement	12
3.2 Maximum Conducted Output Power Measurement	15
3.3 Power Spectral Density Measurement	16
3.4 Unwanted Emissions Measurement.....	18
3.5 AC Conducted Emission Measurement.....	22
3.6 Automatically Discontinue Transmission	24
3.7 Antenna Requirements.....	25
4 LIST OF MEASURING EQUIPMENT	26
5 UNCERTAINTY OF EVALUATION	27
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX C. RADIATED SPURIOUS EMISSION	
APPENDIX D. DUTY CYCLE PLOTS	
APPENDIX E. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR840202E	Rev. 01	Initial issue of report	Aug. 30, 2018



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 8.74 dB at 11650.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.68 dB at 0.151 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE/CDMA Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z6410S
FCC ID	SRQ-Z6410S
EUT supports Radios application	CDMA/EVDO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40 Bluetooth BR/EDR/LE
IMEI/MEID Code	Conducted: 99001041001156 Conduction: 990010410011606 Radiation: 99001041001159
HW Version	Z6410SHW1.0
SW Version	Z6410SV1.0.0B01
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	<5745 MHz ~ 5825 MHz> 802.11a : 13.21 dBm / 0.0209 W 802.11n HT20 : 13.32 dBm / 0.0215 W 802.11n HT40 : 12.97 dBm / 0.0198 W 802.11ac VHT20: 13.27 dBm / 0.0212 W 802.11ac VHT40: 12.93 dBm / 0.0196 W
99% Occupied Bandwidth	802.11a : 18.53 MHz 802.11n HT20 : 19.33 MHz 802.11n HT40 : 36.56 MHz
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Antenna Type / Gain	PIFA Antenna with gain -3.0 dBi

Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11an HT20/ HT40 by referring to their normal higher conducted power.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

Test Site	Sporton International (Kunshan) Inc.			
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958			
Test Site No.	Sporton Site No.			FCC Test Firm Registration No.
	TH01-KS	03CH04-KS	CO01-KS	630927

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5745-5825 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
			165	5825

Note: The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.

2.2 Test Mode

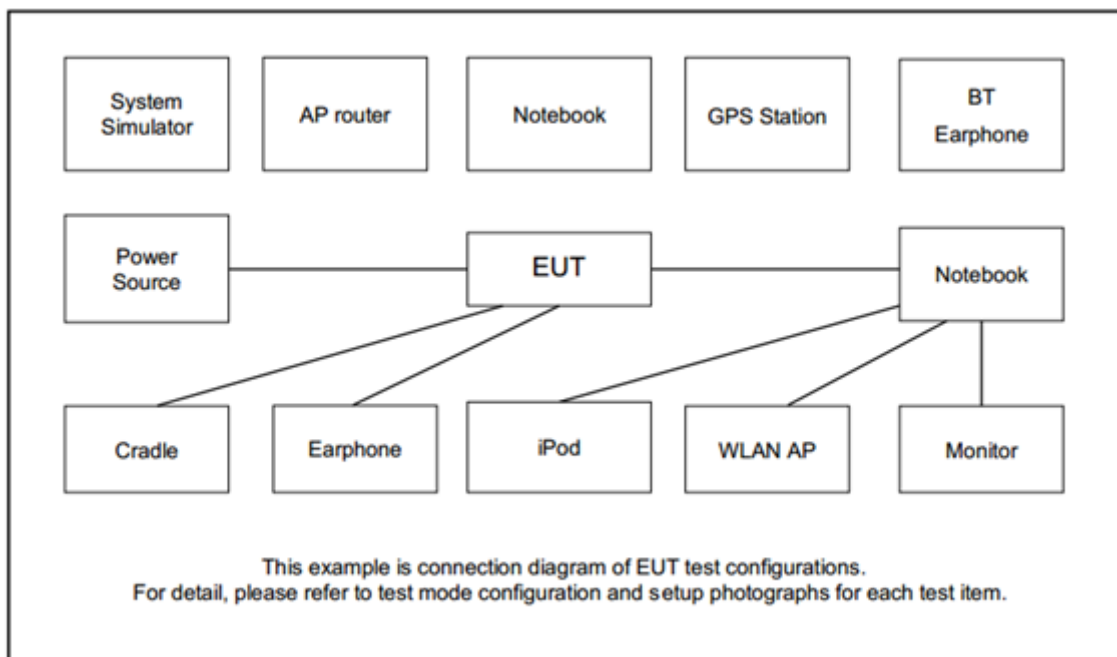
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link(5G) + USB Cable(Charging from Adapter) + Earphone
Remark: For Radiated Test Cases, The tests were performed with Adapter, Battery, Earphone and USB Cable.	

Ch. #		Band IV : 5745-5825 MHz		
		802.11a	802.11n HT20	802.11n HT40
L	Low	149	149	151
M	Middle	157	157	-
H	High	165	165	159

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m
2.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8m
3.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
5.	Earphone	Lenovo	LH102	N/A	Unshielded, 1.2m	N/A
6.	Earphone	Lenovo	SH100	NA	Unshielded, 1.2m	NA

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.5 dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.5 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

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

26dB and 99% Occupied bandwidth are reporting only.

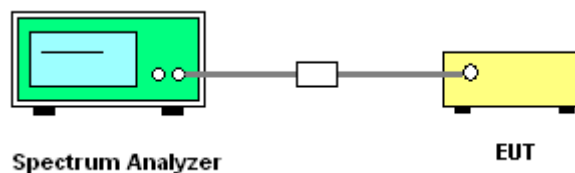
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

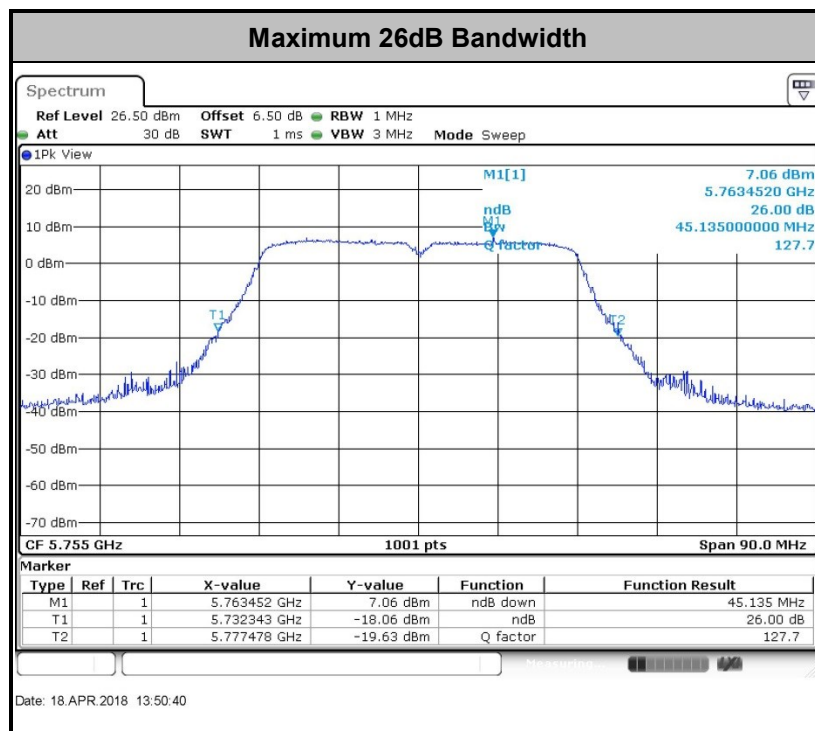
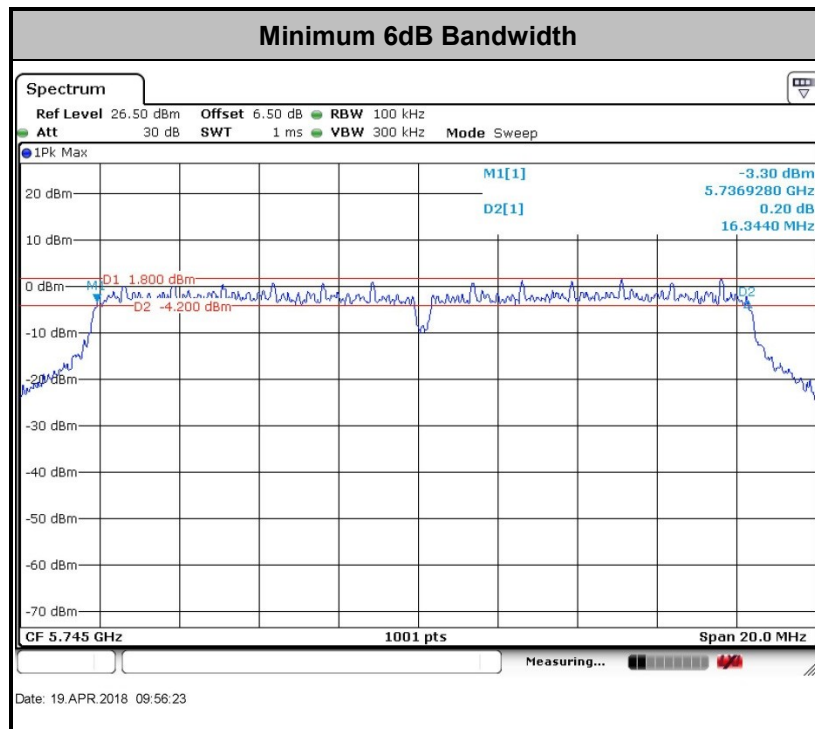
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

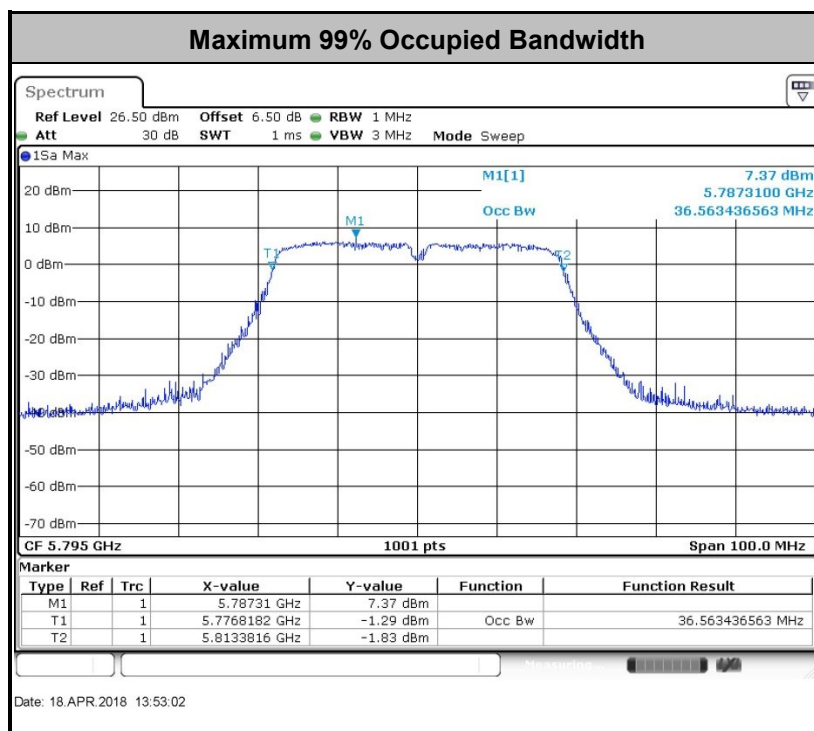
3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

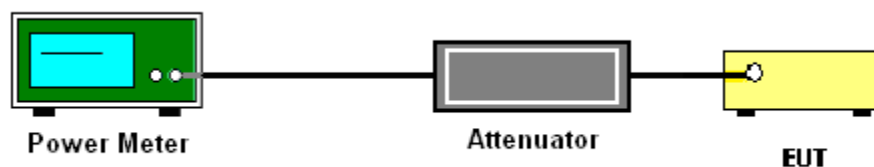
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

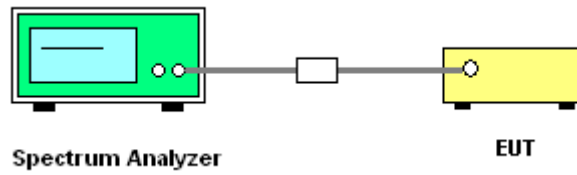
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

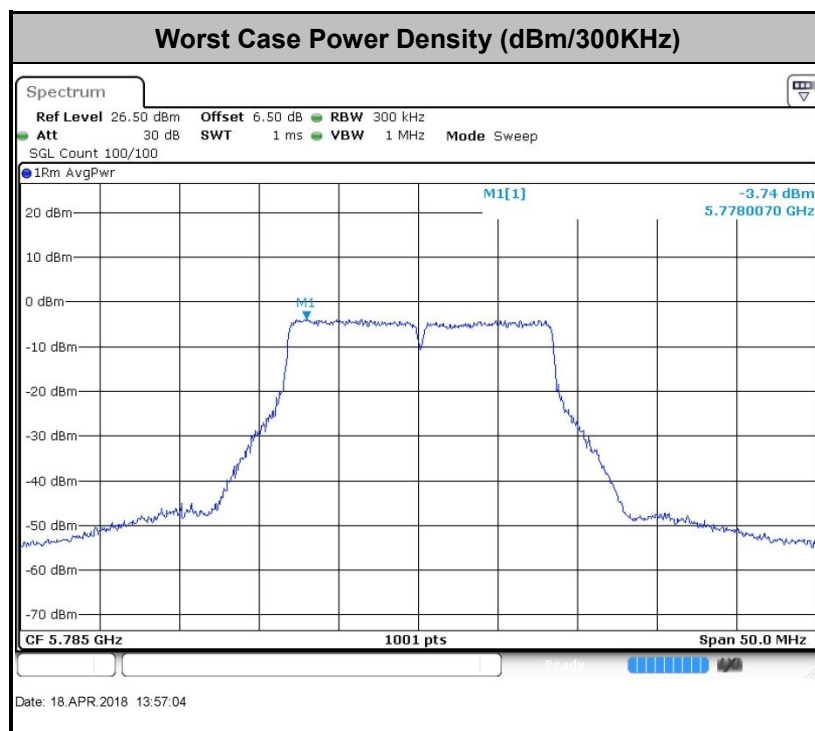
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

Note: The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

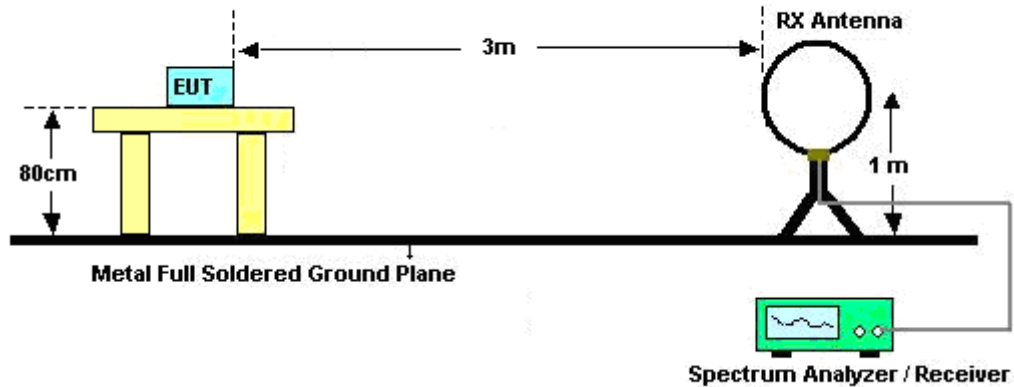
The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

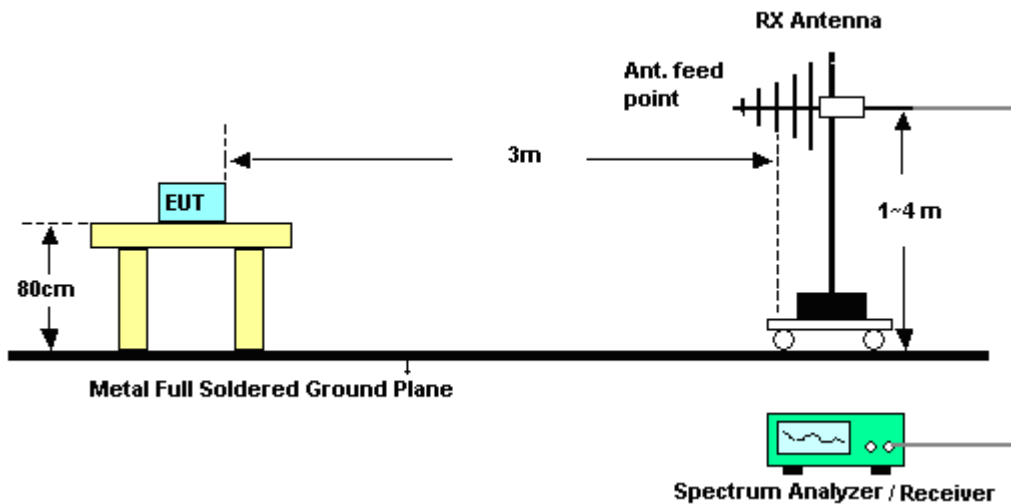
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

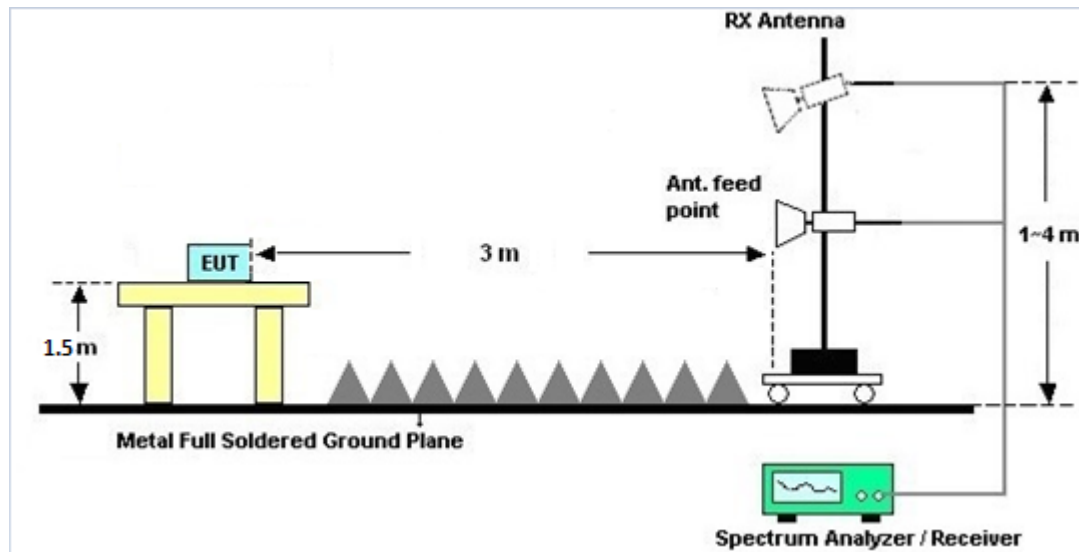
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

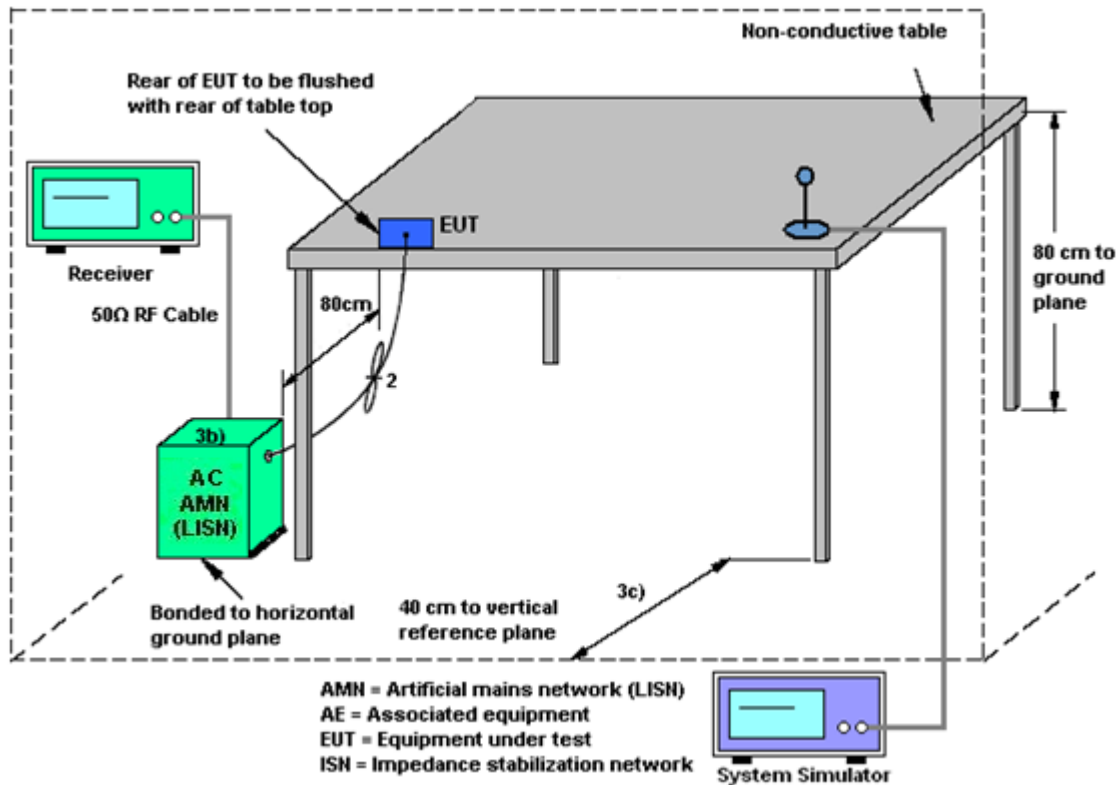
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 08, 2017	Apr. 18, 2018~ Apr. 19, 2018	Aug. 07, 2018	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 18, 2018	Apr. 18, 2018~ Apr. 19, 2018	Jan. 17, 2019	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 18, 2018	Apr. 18, 2018~ Apr. 19, 2018	Jan. 17, 2019	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 12, 2017	Apr. 18, 2018~ Apr. 19, 2018	Oct. 11, 2018	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz; Max 30dBm	Oct. 19, 2017	Aug. 01, 2018	Oct. 18, 2018	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44GHz	Oct. 10, 2017	Aug. 01, 2018	Oct. 09, 2018	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 22, 2017	Aug. 01, 2018	Oct. 21, 2018	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Jan. 29, 2018	Aug. 01, 2018	Jan. 28, 2019	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1648	1GHz~18GHz	Dec. 16, 2017	Aug. 01, 2018	Dec. 15, 2018	Radiation (03CH04-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Aug. 01, 2018	Feb. 06, 2019	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz~3000MHz	Dec. 16, 2017	Aug. 01, 2018	Dec. 15, 2018	Radiation (03CH04-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Feb. 08, 2018	Aug. 01, 2018	Feb. 07, 2019	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Aug. 01, 2018	Apr. 16, 2019	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Dec. 16, 2017	Aug. 01, 2018	Dec. 15, 2018	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 01, 2018	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 01, 2018	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 01, 2018	NCR	Radiation (03CH04-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 19, 2018	Apr. 22, 2018	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Apr. 22, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Apr. 22, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Apr. 22, 2018	Oct. 11, 2018	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.9dB
--	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.9dB
--	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0dB
--	-------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0dB
--	-------



Appendix A. Conducted Test Results

Test Engineer:	Start Xu	Temperature:	21~25	°C
Test Date:	2018/4/18~2018/4/19	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	6dB Bandwidth min. Limit (MHz)	Pass/Fail
11a	6M bps	1	149	5745	18.48	23.526	16.344	0.5	Pass
11a	6Mbps	1	157	5785	18.53	23.477	16.344	0.5	Pass
11a	6Mbps	1	165	5825	18.38	23.277	16.384	0.5	Pass
HT20	MCS 0	1	149	5745	19.23	23.776	17.582	0.5	Pass
HT20	MCS 0	1	157	5785	19.33	23.826	17.562	0.5	Pass
HT20	MCS 0	1	165	5825	19.18	23.976	17.582	0.5	Pass
HT40	MCS 0	1	151	5755	36.56	45.135	35.524	0.5	Pass
HT40	MCS 0	1	159	5795	36.56	45.045	35.524	0.5	Pass

TEST RESULTS DATA
Average Power Table

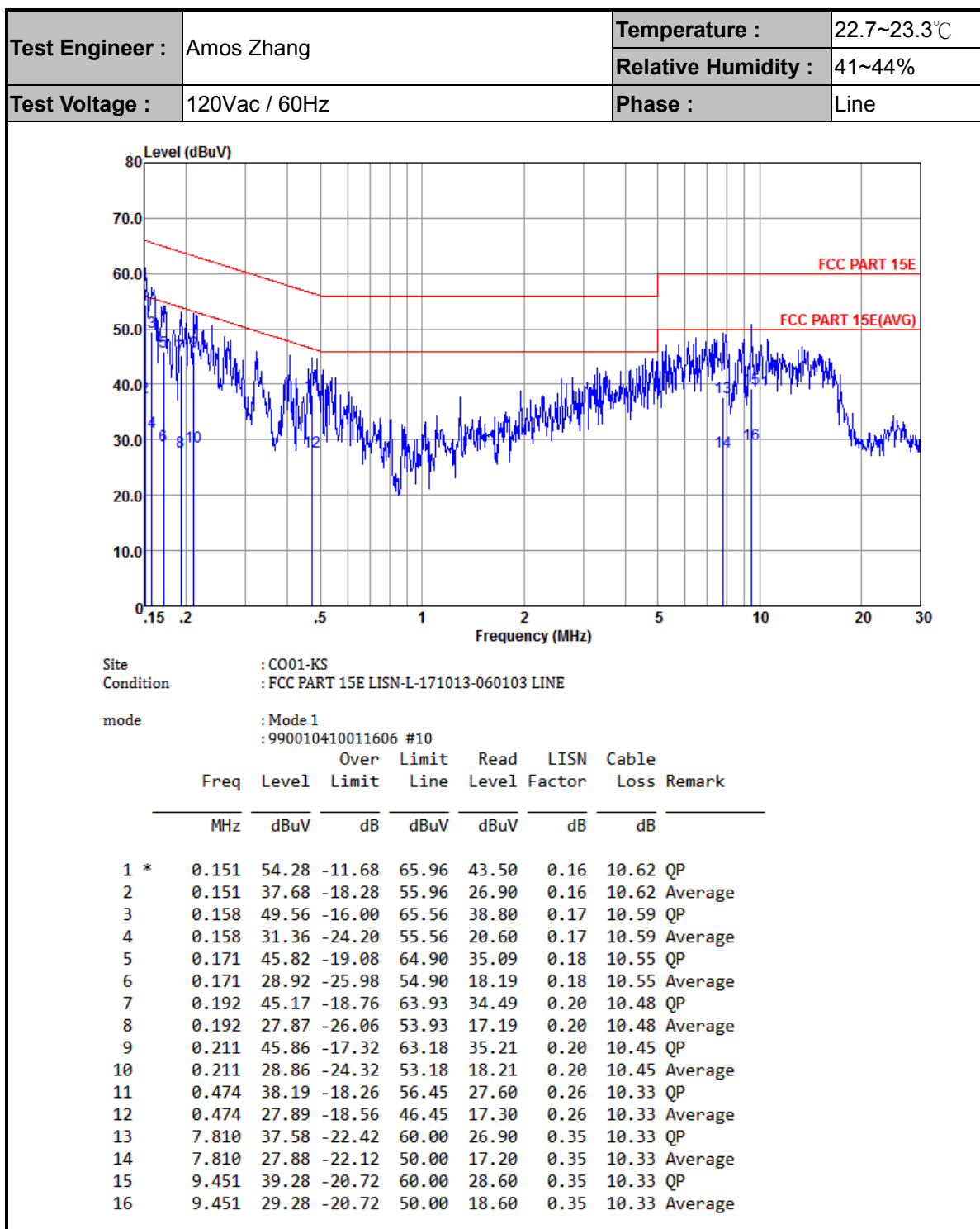
Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6M bps	1	149	5745	0.59	13.21	30.00	-3.00		Pass
11a	6Mbps	1	157	5785	0.59	13.10	30.00	-3.00		Pass
11a	6Mbps	1	165	5825	0.59	13.08	30.00	-3.00		Pass
HT20	MCS 0	1	149	5745	0.65	13.32	30.00	-3.00		Pass
HT20	MCS 0	1	157	5785	0.65	13.18	30.00	-3.00		Pass
HT20	MCS 0	1	165	5825	0.65	13.13	30.00	-3.00		Pass
HT40	MCS 0	1	151	5755	0.63	12.97	30.00	-3.00		Pass
HT40	MCS 0	1	159	5795	0.63	12.84	30.00	-3.00		Pass
VHT20	MCS 0	1	149	5745	0.81	13.27	30.00	-3.00		Pass
VHT20	MCS 0	1	157	5785	0.81	13.15	30.00	-3.00		Pass
VHT20	MCS 0	1	165	5825	0.81	13.09	30.00	-3.00		Pass
VHT40	MCS 0	1	151	5755	1.48	12.93	30.00	-3.00		Pass
VHT40	MCS 0	1	159	5795	1.48	12.79	30.00	-3.00		Pass

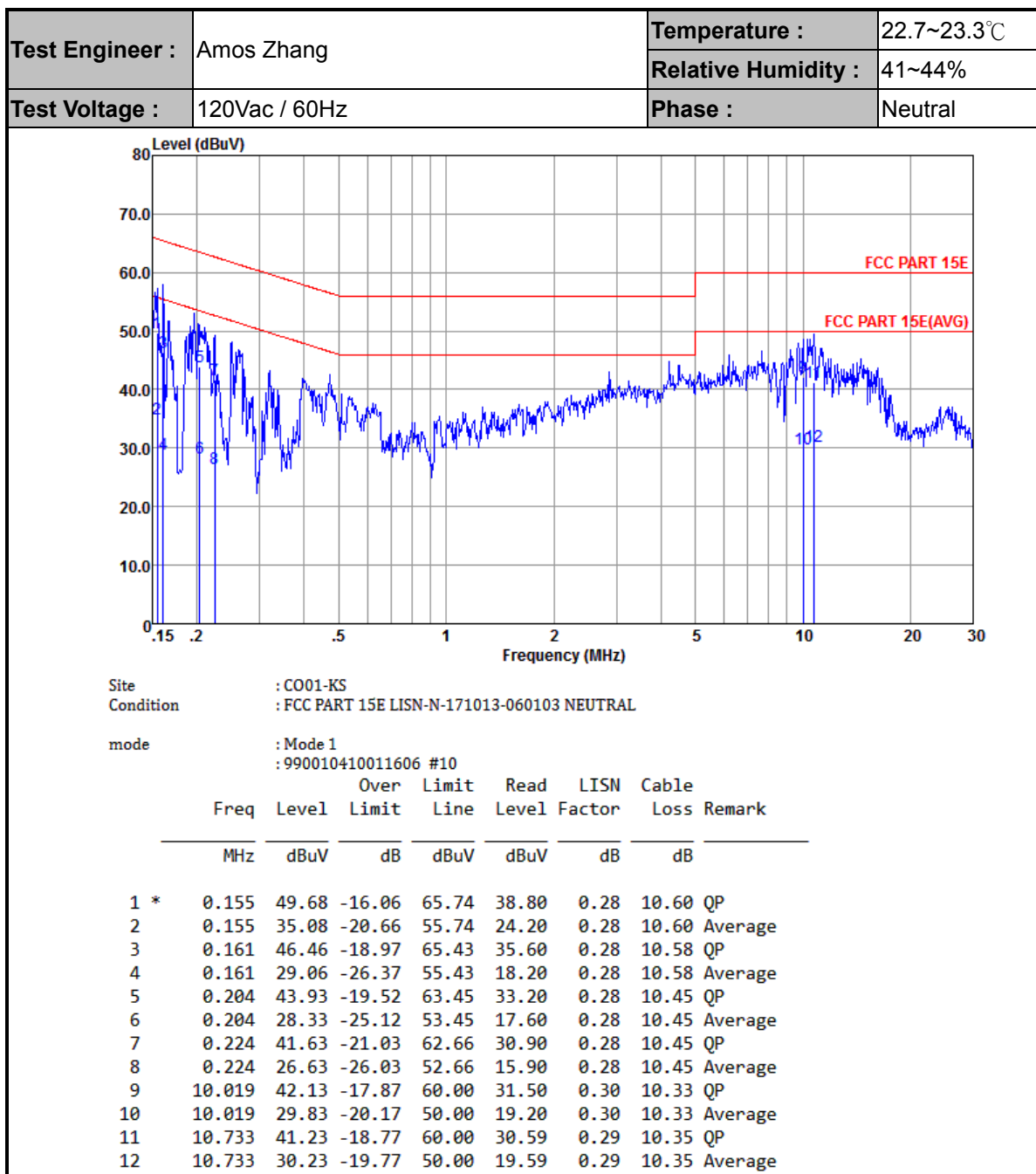
TEST RESULTS DATA
Power Spectral Density

Band IV										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	10log (500kHz /RBW) Factor (dB)	Average Power Density (dBm/500kHz)	Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass/Fail
11a	6M bps	1	149	5745	0.59	2.22	-1.05	30.00	-3.00	Pass
11a	6Mbps	1	157	5785	0.59	2.22	-0.93	30.00	-3.00	Pass
11a	6Mbps	1	165	5825	0.59	2.22	-1.32	30.00	-3.00	Pass
HT20	MCS 0	1	149	5745	0.65	2.22	-1.00	30.00	-3.00	Pass
HT20	MCS 0	1	157	5785	0.65	2.22	-1.10	30.00	-3.00	Pass
HT20	MCS 0	1	165	5825	0.65	2.22	-1.33	30.00	-3.00	Pass
HT40	MCS 0	1	151	5755	0.63	2.22	-4.58	30.00	-3.00	Pass
HT40	MCS 0	1	159	5795	0.63	2.22	-4.12	30.00	-3.00	Pass



Appendix B. AC Conducted Emission Test Results







Appendix C. Radiated Spurious Emission

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5618.8	51.86	-16.44	68.3	41.47	35.01	8.56	33.18	100	352	P	H
		5664.8	51.78	-27.51	79.29	41.4	34.98	8.57	33.17	100	352	P	H
		5717.6	51.23	-59	110.23	40.9	34.92	8.58	33.17	100	352	P	H
		5723.2	52.45	-65.75	118.2	42.12	34.92	8.58	33.17	100	352	P	H
		5750	98.47	-	-	88.14	34.91	8.59	33.17	100	352	P	H
		5750	92.15	-	-	81.82	34.91	8.59	33.17	100	352	A	H
		5606.4	51.41	-16.89	68.3	41.01	35.03	8.55	33.18	291	121	P	V
		5691.2	52.06	-46.75	98.81	41.71	34.95	8.57	33.17	291	121	P	V
		5704.8	51.61	-55.04	106.65	41.26	34.94	8.58	33.17	291	121	P	V
		5724.8	55.44	-66.4	121.84	45.11	34.92	8.58	33.17	291	121	P	V
		5750	99.24	-	-	88.91	34.91	8.59	33.17	291	121	P	V
		5750	91.9	-	-	81.57	34.91	8.59	33.17	291	121	A	V
802.11a CH 165 5825MHz		5820	98.96	-	-	88.69	34.83	8.61	33.17	122	16	P	H
		5820	92.16	-	-	81.89	34.83	8.61	33.17	122	16	A	H
		5850.01	52.16	-70.12	122.28	41.9	34.82	8.61	33.17	122	16	P	H
		5861.2	50.77	-58.39	109.16	40.52	34.8	8.62	33.17	122	16	P	H
		5924.4	52.13	-16.61	68.74	41.88	34.81	8.64	33.2	122	16	P	H
		5974.8	51.1	-17.2	68.3	40.87	34.81	8.65	33.23	122	16	P	H
		5820	98.36	-	-	88.09	34.83	8.61	33.17	268	125	P	V
		5820	91.32	-	-	81.05	34.83	8.61	33.17	268	125	A	V
		5854	50.89	-62.29	113.18	40.64	34.8	8.62	33.17	268	125	P	V
		5868	51.65	-55.61	107.26	41.4	34.8	8.62	33.17	268	125	P	V
		5904	51.31	-32.49	83.8	41.06	34.8	8.63	33.18	268	125	P	V
		5945.2	51.48	-16.82	68.3	41.24	34.81	8.64	33.21	268	125	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a		11490	47.39	-26.61	74	60.54	39.29	12.91	65.35	100	360	P	H
CH 149		11490	50.05	-23.95	74	63.2	39.29	12.91	65.35	100	360	P	V
5745MHz													
802.11a		11570	47.02	-26.98	74	60.25	39.37	12.84	65.44	100	0	P	H
CH 157		11570	49.26	-24.74	74	62.49	39.37	12.84	65.44	100	0	P	V
5785MHz													
802.11a		11650	47.9	-26.1	74	61.22	39.44	12.78	65.54	100	360	P	H
CH 165		11650	51.51	-22.49	74	64.83	39.44	12.78	65.54	100	266	P	V
5825MHz		11650	45.26	-8.74	54	58.58	39.44	12.78	65.54	100	266	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5641.6	52.1	-16.2	68.3	41.71	35	8.56	33.17	102	5	P	H
		5676.4	51.74	-36.14	87.88	41.37	34.97	8.57	33.17	102	5	P	H
		5714.4	53.11	-56.22	109.33	42.76	34.94	8.58	33.17	102	5	P	H
		5724	53.6	-66.42	120.02	43.27	34.92	8.58	33.17	102	5	P	H
		5740	98.26	-	-	87.93	34.91	8.59	33.17	102	5	P	H
		5740	91.8	-	-	81.47	34.91	8.59	33.17	102	5	A	H
		5628	51.94	-16.36	68.3	41.55	35.01	8.56	33.18	259	131	P	V
		5656	51.58	-21.18	72.76	41.2	34.98	8.57	33.17	259	131	P	V
		5717.2	51.03	-59.09	110.12	40.68	34.94	8.58	33.17	259	131	P	V
		5723.6	53.5	-65.61	119.11	43.17	34.92	8.58	33.17	259	131	P	V
		5746	97.74	-	-	87.41	34.91	8.59	33.17	259	131	P	V
		5746	91.1	-	-	80.77	34.91	8.59	33.17	259	131	A	V
802.11n HT20 CH 165 5825MHz		5820	98.95	-	-	88.68	34.83	8.61	33.17	107	7	P	H
		5820	91.81	-	-	81.54	34.83	8.61	33.17	107	7	A	H
		5852.8	52.15	-63.77	115.92	41.89	34.82	8.61	33.17	107	7	P	H
		5873.6	51.38	-54.31	105.69	41.14	34.8	8.62	33.18	107	7	P	H
		5908	52.99	-27.85	80.84	42.74	34.81	8.63	33.19	107	7	P	H
		5962.8	51.47	-16.83	68.3	41.23	34.81	8.65	33.22	107	7	P	H
		5820	98.31	-	-	88.04	34.83	8.61	33.17	109	288	P	V
		5820	91.53	-	-	81.26	34.83	8.61	33.17	109	288	A	V
		5853.2	51	-64	115	40.74	34.82	8.61	33.17	109	288	P	V
		5856.4	50.97	-59.54	110.51	40.72	34.8	8.62	33.17	109	288	P	V
		5906.8	51.83	-29.9	81.73	41.58	34.81	8.63	33.19	109	288	P	V
		5953.6	52.11	-16.19	68.3	41.87	34.81	8.64	33.21	109	288	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	46.49	-27.51	74	59.64	39.29	12.91	65.35	100	0	P	H
		11490	49.97	-24.03	74	63.12	39.29	12.91	65.35	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	46.65	-27.35	74	59.88	39.37	12.84	65.44	100	0	P	H
		11570	52.09	-21.91	74	65.32	39.37	12.84	65.44	100	25	P	V
		11570	43.91	-10.09	54	57.14	39.37	12.84	65.44	100	25	A	V
802.11n HT20 CH 165 5825MHz		11650	48.27	-25.73	74	61.59	39.44	12.78	65.54	100	360	P	H
		11650	54.7	-19.3	74	68.02	39.44	12.78	65.54	100	265	P	V
		11650	44.94	-9.06	54	58.26	39.44	12.78	65.54	100	265	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5640.8	51.85	-16.45	68.3	41.46	35	8.56	33.17	111	5	P	H
		5674.4	52.43	-33.97	86.4	42.06	34.97	8.57	33.17	111	5	P	H
		5719.2	53.24	-57.44	110.68	42.91	34.92	8.58	33.17	111	5	P	H
		5722.4	53.5	-62.87	116.37	43.17	34.92	8.58	33.17	111	5	P	H
		5768	96.04	-	-	85.73	34.89	8.59	33.17	111	5	P	H
		5768	88.91	-	-	78.6	34.89	8.59	33.17	111	5	A	H
		5853.6	49.88	-64.21	114.09	39.63	34.8	8.62	33.17	111	5	P	H
		5866.4	51.81	-55.9	107.71	41.56	34.8	8.62	33.17	111	5	P	H
		5906.8	51.29	-30.44	81.73	41.04	34.81	8.63	33.19	111	5	P	H
		5951.2	51.44	-16.86	68.3	41.2	34.81	8.64	33.21	111	5	P	H
		5607.2	51.83	-16.47	68.3	41.43	35.03	8.55	33.18	100	287	P	V
		5667.2	51.7	-29.36	81.06	41.33	34.97	8.57	33.17	100	287	P	V
		5718.4	52.86	-57.59	110.45	42.53	34.92	8.58	33.17	100	287	P	V
		5724.8	55.37	-66.47	121.84	45.04	34.92	8.58	33.17	100	287	P	V
		5768	96.9	-	-	86.59	34.89	8.59	33.17	100	287	P	V
		5768	88.79	-	-	78.48	34.89	8.59	33.17	100	287	A	V
		5850.8	50.78	-69.7	120.48	40.52	34.82	8.61	33.17	100	287	P	V
		5857.6	51.29	-58.88	110.17	41.04	34.8	8.62	33.17	100	287	P	V
		5910.4	51.38	-27.69	79.07	41.13	34.81	8.63	33.19	100	287	P	V
		5948	51.61	-16.69	68.3	41.37	34.81	8.64	33.21	100	287	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5645.6	51.73	-16.57	68.3	41.34	35	8.56	33.17	112	5	P	H
		5691.2	51.69	-47.12	98.81	41.34	34.95	8.57	33.17	112	5	P	H
		5715.6	51.83	-57.84	109.67	41.48	34.94	8.58	33.17	112	5	P	H
		5723.2	51.51	-66.69	118.2	41.18	34.92	8.58	33.17	112	5	P	H
		5788	96.03	-	-	85.74	34.86	8.6	33.17	112	5	P	H
		5788	88.97	-	-	78.68	34.86	8.6	33.17	112	5	A	H
		5853.6	51.02	-63.07	114.09	40.77	34.8	8.62	33.17	112	5	P	H
		5869.6	50.96	-55.85	106.81	40.71	34.8	8.62	33.17	112	5	P	H
		5902.8	51.17	-33.52	84.69	40.92	34.8	8.63	33.18	112	5	P	H
		5944.8	51.35	-16.95	68.3	41.11	34.81	8.64	33.21	112	5	P	H
		5624.8	51.47	-16.83	68.3	41.08	35.01	8.56	33.18	101	316	P	V
		5672	52.12	-32.5	84.62	41.75	34.97	8.57	33.17	101	316	P	V
		5703.2	52.2	-54	106.2	41.85	34.94	8.58	33.17	101	316	P	V
		5721.6	50.29	-64.26	114.55	39.96	34.92	8.58	33.17	101	316	P	V
		5806	94.84	-	-	84.56	34.85	8.6	33.17	101	316	P	V
		5806	87.59	-	-	77.31	34.85	8.6	33.17	101	316	A	V
		5853.2	51.26	-63.74	115	41	34.82	8.61	33.17	101	316	P	V
		5858.8	52.13	-57.7	109.83	41.88	34.8	8.62	33.17	101	316	P	V
		5878	52.26	-50.81	103.07	42.02	34.8	8.62	33.18	101	316	P	V
		5965.6	51.19	-17.11	68.3	40.95	34.81	8.65	33.22	101	316	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	46.42	-27.58	74	59.56	39.3	12.9	65.34	100	360	P	H
		11510	48.69	-25.31	74	61.83	39.3	12.9	65.34	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	45.91	-28.09	74	59.17	39.39	12.82	65.47	100	360	P	H
		11590	48.18	-25.82	74	61.44	39.39	12.82	65.47	200	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		30.97	21.42	-18.58	40	28.93	23.93	0.59	32.03	100	0	P	H
		224	23.85	-22.15	46	38.33	15.54	1.59	31.61	-	-	P	H
		391.81	21.83	-24.17	46	29.12	21.4	2.05	30.74	-	-	P	H
		554.77	24.44	-21.56	46	28.03	23.8	2.56	29.95	-	-	P	H
		729.37	25.6	-20.4	46	26.61	24.95	2.79	28.75	-	-	P	H
		930.16	26.97	-19.03	46	24.37	26.73	3.16	27.29	-	-	P	H
		30	23.97	-16.03	40	30.93	24.5	0.57	32.03	-	-	P	V
		53.28	24.59	-15.41	40	42.57	13.38	0.75	32.11	100	0	P	V
		224.97	22.37	-23.63	46	36.73	15.65	1.6	31.61	-	-	P	V
		576.11	24.27	-21.73	46	27.46	24.03	2.59	29.81	-	-	P	V
		759.44	25.02	-20.98	46	25.52	25.31	2.78	28.59	-	-	P	V
		883.6	27.05	-18.95	46	25.31	26.3	3.08	27.64	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

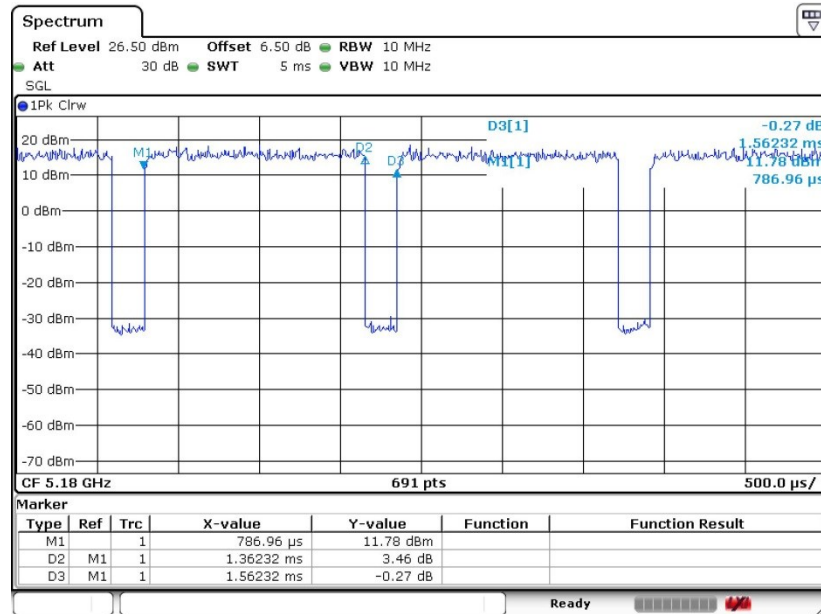


Appendix D. Duty Cycle Plots

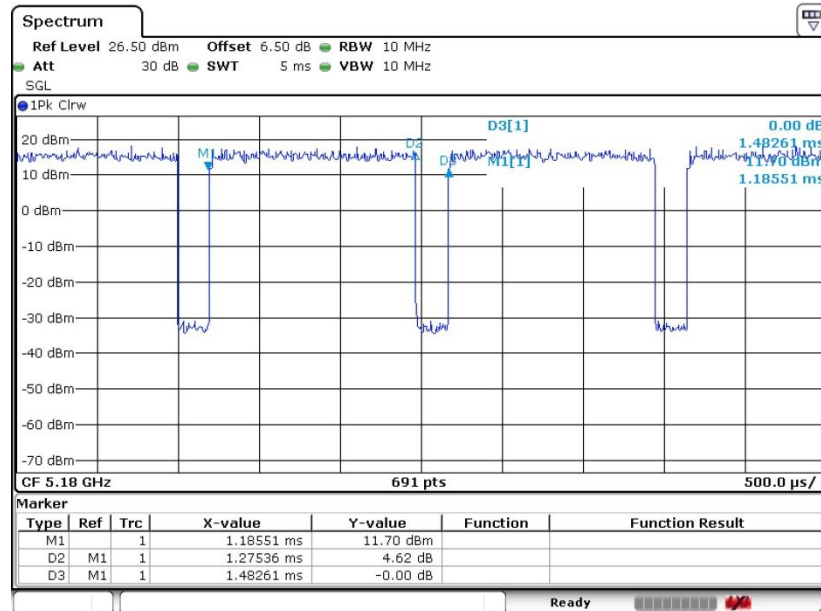
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	87.20	1.362	0.734	0.750KHz
802.11n HT20	86.02	1.275	0.784	0.820KHz
802.11n HT40	86.47	1.232	0.812	0.820KHz



802.11a



802.11n HT20





802.11n HT40

