



FCC RF Test Report

APPLICANT : Motorola Mobility, LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 6574
FCC ID : IHDT56VB2
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

This is a variant report which is only valid together with the original test report. The product was received on May 17, 2016 and testing was completed on May 22, 2016. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR640145-15D	Rev. 01	This is a variant report. All the test cases were performed base on the worst case identified in the original report. The test purpose is to verify the influence caused by additional accessory applied, hence only RSE and AC conducted emission need to be considered. Please referred to appendix D for the original report.(Sporton Report Number FR640145D)	Jun. 01, 2016
FR640145-15D	Rev. 02	Revising the standard in section 1.7.	Jun. 22, 2016



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.407(b)	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band) &15.209(a)	Pass	Under limit 0.17 dB at 5147.300 MHz
3.2	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 5.70 dB at 0.238 MHz



1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	6574
FCC ID	IHDT56VB2
IMEI Code	354107070048603 (for Radiation) 354107070049056 (for Conduction)
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11b/g/n HT20/VHT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v3.0 EDR Bluetooth v4.2 LE
HW Version	DVT2
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.

Accessory List	
WPC Cover	Brand Name : INCIPIO
	Model Name : MT-043-CASE

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Type	Fixed Internal Antenna type (The antenna peak gain of EUT is less than 6 dBi)		
Antenna Function Description		Ant.1	Ant.2
	802.11 a/a/n/ac SISO	V	V
	802.11 a/n/ac MIMO	V	V

1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	CO05-HY	03CH07-HY

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 v01r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ♦ KDB 648474 D03 Handset Wireless Chargers Battery Covers v01r04
- ♦ 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

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: conducted emission (150 kHz to 30 MHz) and radiated 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.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240
	42	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320
	58	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	120	5600
	102	5510	122	5610
	104	5520	124	5620
	108	5540	126	5630
	110	5550	128	5640
	112	5560	132	5660
	114	5570	134	5670
	116	5580	136	5680
	118	5590	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	144	5720	142	5710
	138	5690		

Note: The above Frequency and Channel in boldface were 802.11n HT40.

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

MIMO Antenna

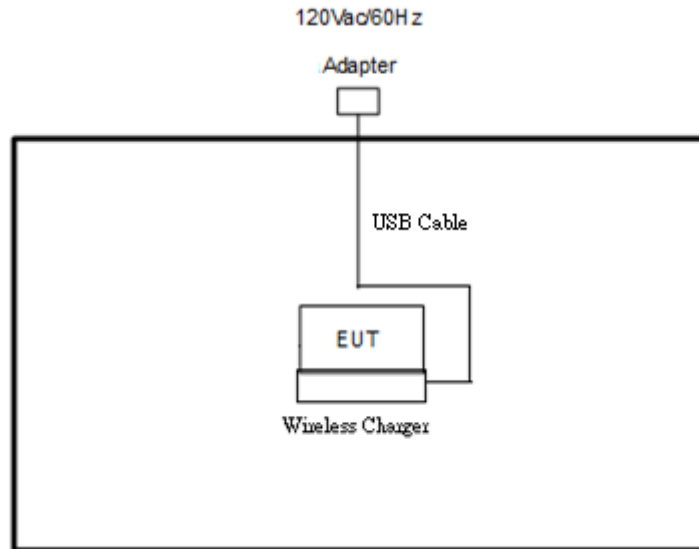
Modulation	Data Rate
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Camera + WPC Back Cover + WPC Charging Pad + USB Cable (Charging from Adapter)
	Mode 2 : WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + WPC Back Cover + PMA Charging Pad + Adapter

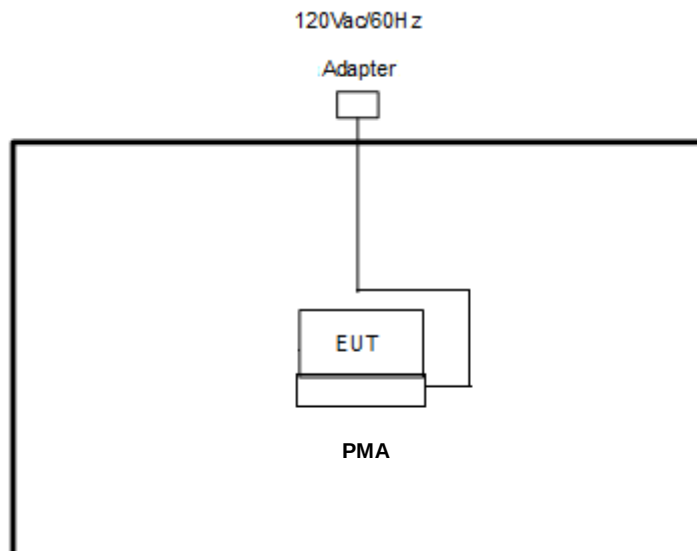
Ch. #		Band I : 5150-5250 MHz
		802.11ac VHT80
L	Low	-
M	Middle	42
H	High	-
Straddle		-

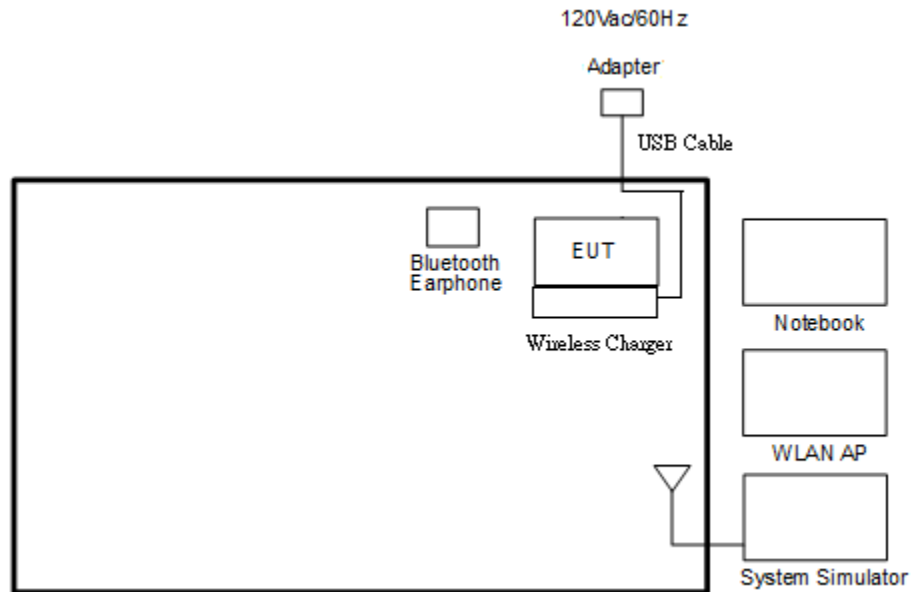
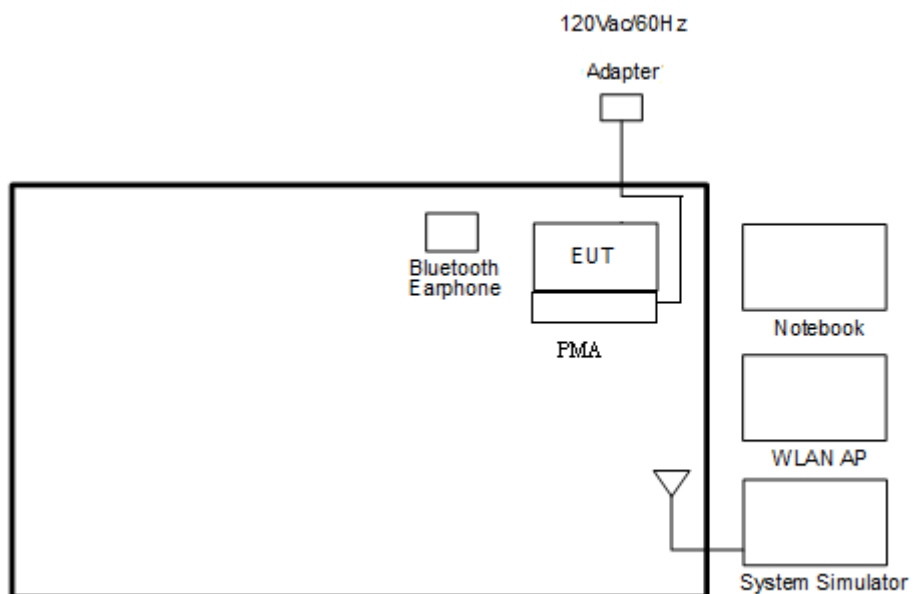
2.3 Connection Diagram of Test System

<WLAN Tx with WPC Charging Mode>



<WLAN Tx with PMA Charging Mode>



<AC Conducted Emission with WPC Charging Mode>

<AC Conducted Emission with PMA Charging Mode>




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, 1.8 m
2.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	Wireless Charger	LG	WCD-100	FCC DoC	N/A	N/A
7.	PMA	DURACELL	M-018B-518A	FCC DoC	N/A	N/A
8.	USB Cable	Motorola	SKN6461A	N/A	Unshielded, 1.0 m	N/A
9.	Adapter	Motorola	SPN5865A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, “QRCT” installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

3 Test Result

3.1 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.1.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band. For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 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

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

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

- (3) KDB789033 D02 v01r02 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.1.2 Measuring Instruments

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

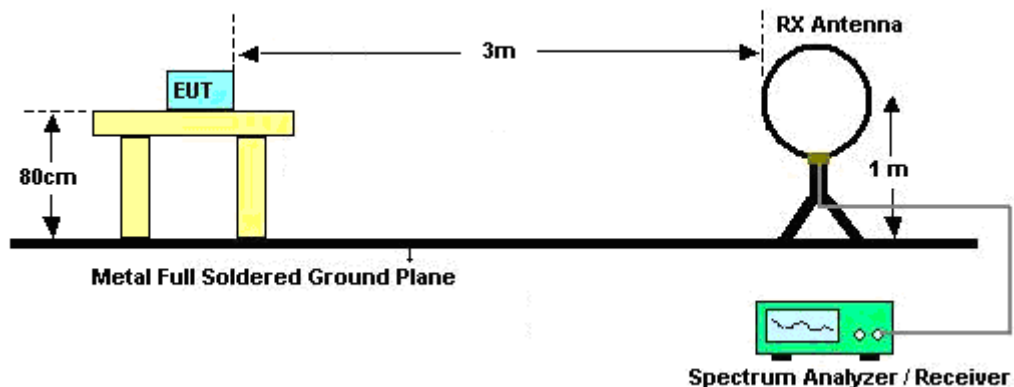
3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. 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.

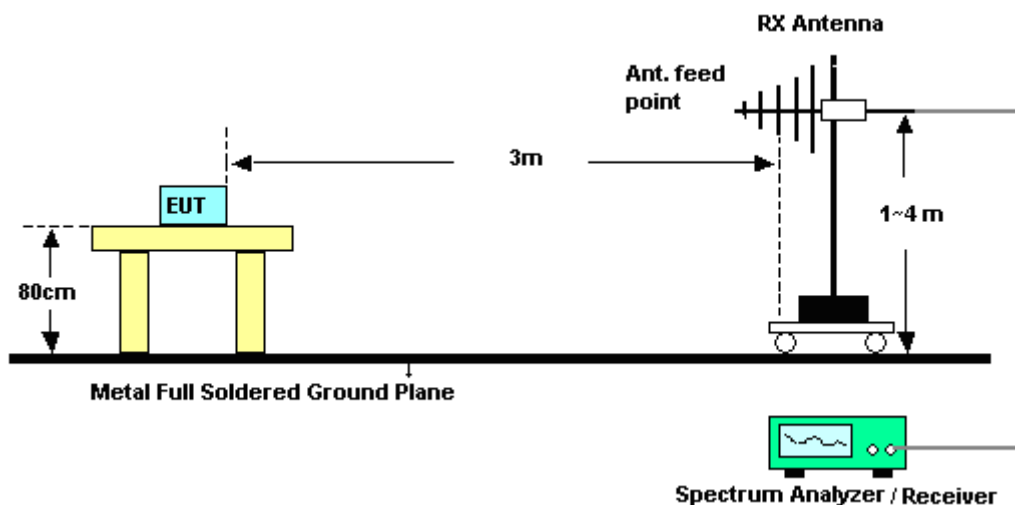
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, 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.

3.1.4 Test Setup

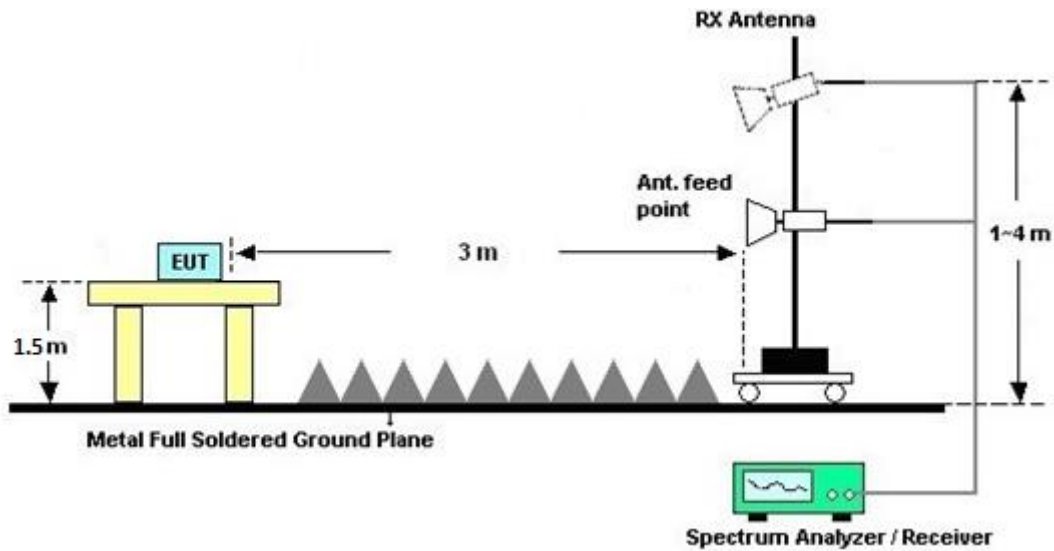
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 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 per 15.31(o) was not reported.

3.1.6 Test Result of Radiated Band Edges

Please refer to Appendix A and B

3.1.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix A and B

3.2 AC Conducted Emission Measurement

3.2.1 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.

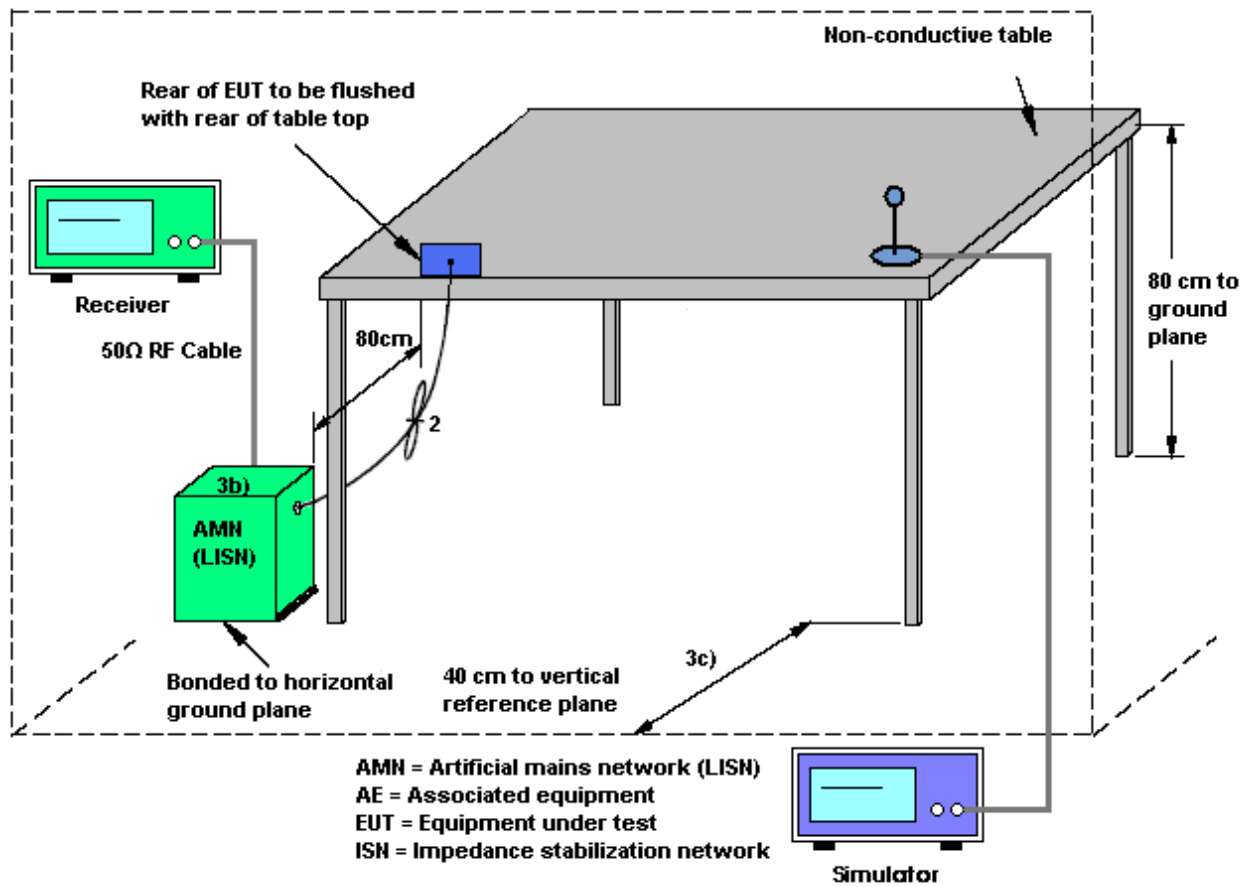
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

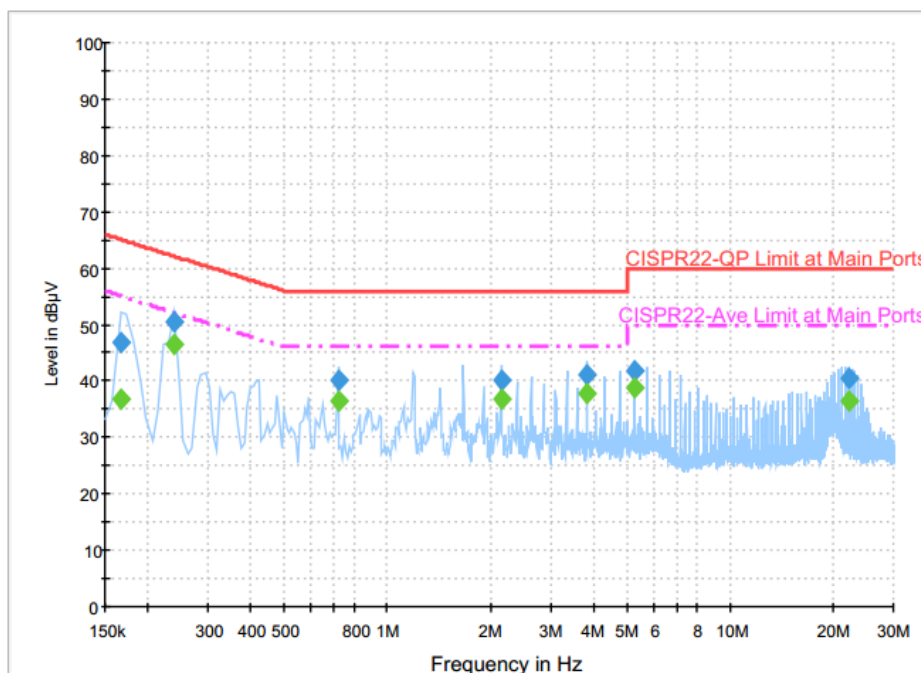
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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.

3.2.4 Test Setup



3.2.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	23~24℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	44~45%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + WPC Back Cover + PMA Charging Pad + Adapter		



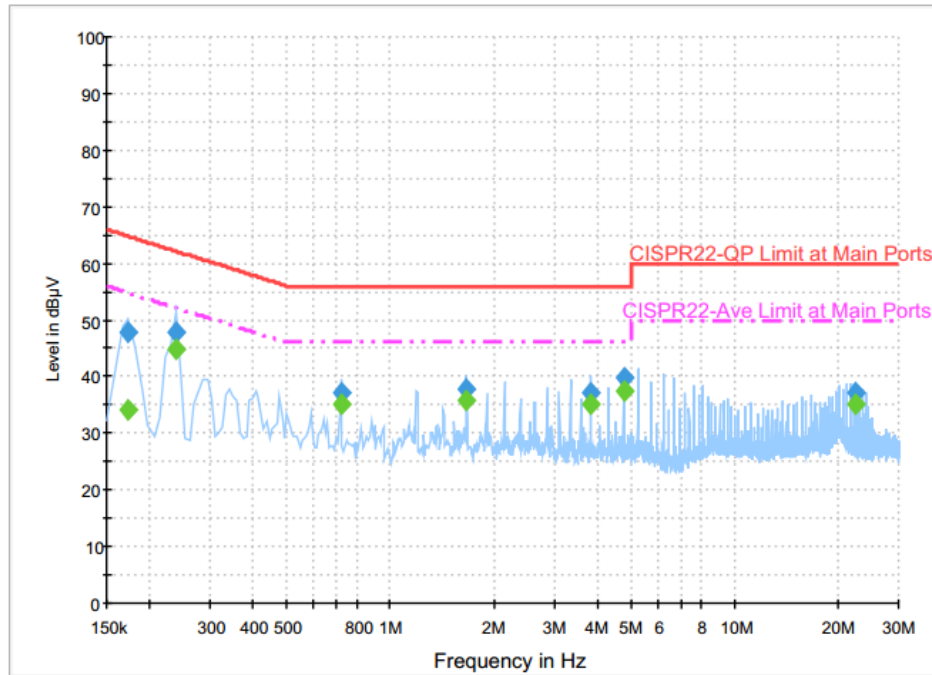
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	46.7	Off	L1	19.6	18.5	65.2
0.238000	50.5	Off	L1	19.6	11.7	62.2
0.718000	40.0	Off	L1	19.6	16.0	56.0
2.150000	40.3	Off	L1	19.6	15.7	56.0
3.822000	41.1	Off	L1	19.8	14.9	56.0
5.254000	41.8	Off	L1	19.9	18.2	60.0
22.214000	40.6	Off	L1	20.8	19.4	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	36.8	Off	L1	19.6	18.4	55.2
0.238000	46.5	Off	L1	19.6	5.7	52.2
0.718000	36.6	Off	L1	19.6	9.4	46.0
2.150000	36.8	Off	L1	19.6	9.2	46.0
3.822000	37.8	Off	L1	19.8	8.2	46.0
5.254000	38.8	Off	L1	19.9	11.2	50.0
22.214000	36.6	Off	L1	20.8	13.4	50.0

Test Mode :	Mode 2	Temperature :	23~24°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	44~45%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + WPC Back Cover + PMA Charging Pad + Adapter		


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.174000	48.0	Off	N	19.6	16.8	64.8
0.238000	47.8	Off	N	19.6	14.4	62.2
0.718000	37.2	Off	N	19.6	18.8	56.0
1.670000	37.9	Off	N	19.7	18.1	56.0
3.822000	37.3	Off	N	19.7	18.7	56.0
4.774000	39.7	Off	N	19.8	16.3	56.0
22.678000	37.0	Off	N	20.9	23.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.174000	34.0	Off	N	19.6	20.8	54.8
0.238000	44.9	Off	N	19.6	7.3	52.2
0.718000	35.2	Off	N	19.6	10.8	46.0
1.670000	35.8	Off	N	19.7	10.2	46.0
3.822000	35.0	Off	N	19.7	11.0	46.0
4.774000	37.6	Off	N	19.8	8.4	46.0
22.678000	35.0	Off	N	20.9	15.0	50.0



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 23, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	May 23, 2016	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	May 23, 2016	Dec. 01, 2016	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D	35419	30MHz to 1GHz	Jan. 13, 2016	May 19, 2016 ~ May 21, 2016	Jan. 12, 2017	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 21, 2015	May 19, 2016 ~ May 21, 2016	Aug. 20, 2016	Radiation (03CH07-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 04, 2015	May 19, 2016 ~ May 21, 2016	Nov. 03, 2016	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	May 19, 2016 ~ May 21, 2016	Sep. 01, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 15, 2016	May 19, 2016 ~ May 21, 2016	Apr. 14, 2017	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	Mar. 18, 2016	May 19, 2016 ~ May 21, 2016	Mar. 17, 2017	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 19, 2015	May 19, 2016 ~ May 21, 2016	Oct. 18, 2016	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Feb. 27, 2016	May 19, 2016 ~ May 21, 2016	Feb. 26, 2017	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	May 19, 2016 ~ May 21, 2016	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF78020836 8	Control Ant Mast	N/A	May 19, 2016 ~ May 21, 2016	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	May 19, 2016 ~ May 21, 2016	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	May 19, 2016 ~ May 21, 2016	N/A	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	May 19, 2016 ~ May 21, 2016	Jun. 01, 2016	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 02, 2015	May 19, 2016 ~ May 21, 2016	Nov. 01, 2016	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60
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Appendix A. Radiated Spurious Emission

Test Engineer :	Jesse Wang, James Chiu, and Kyle Chuang	Temperature :	21~23°C
		Relative Humidity :	55~58%

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

<PMA Charging Mode>

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 42 5210MHz		5143.4	58.68	-15.32	74	48.03	34.66	11.21	35.22	268	13	P	H
		5144.75	51.35	-2.65	54	40.7	34.66	11.21	35.22	268	13	A	H
	*	5210	95.44	-	-	84.59	34.82	11.25	35.22	268	13	P	H
	*	5210	87.61	-	-	76.76	34.82	11.25	35.22	268	13	A	H
		5459.67	51.79	-22.21	74	39.76	35.38	11.89	35.24	268	13	P	H
		5355.83	42.67	-11.33	54	31	35.14	11.76	35.23	268	13	A	H
		5138.75	62.09	-11.91	74	51.51	34.62	11.18	35.22	272	284	P	V
		5147.3	53.83	-0.17	54	43.18	34.66	11.21	35.22	272	284	A	V
	*	5210	96.24	-	-	85.39	34.82	11.25	35.22	272	284	P	V
	*	5210	89.65	-	-	78.8	34.82	11.25	35.22	272	284	A	V
		5386.52	50.7	-23.3	74	38.82	35.22	11.89	35.23	272	284	P	V
		5355.17	44.04	-9.96	54	32.37	35.14	11.76	35.23	272	284	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

<WPC Charging Mode>

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5148.65	65.64	-8.36	74	54.99	34.66	11.21	35.22	215	253	P	H
		5148.5	53.65	-0.35	54	43	34.66	11.21	35.22	215	253	P	H
	*	5210	97.35	-	-	86.5	34.82	11.25	35.22	215	253	P	H
	*	5210	90.07	-	-	79.22	34.82	11.25	35.22	215	253	A	H
		5456.59	51.37	-22.63	74	39.34	35.38	11.89	35.24	215	253	P	H
		5350.33	44.02	-9.98	54	32.35	35.14	11.76	35.23	215	253	A	H
		5141.45	56.32	-17.68	74	45.67	34.66	11.21	35.22	300	332	P	V
		5144.9	48.58	-5.42	54	37.93	34.66	11.21	35.22	300	332	A	V
	*	5210	92.13	-	-	81.28	34.82	11.25	35.22	300	332	P	V
	*	5210	85.32	-	-	74.47	34.82	11.25	35.22	300	332	A	V
		5386.63	50.5	-23.5	74	38.62	35.22	11.89	35.23	300	332	P	V
		5352.09	42.59	-11.41	54	30.92	35.14	11.76	35.23	300	332	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)****<PMA Charging Mode>**

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 42 5210MHz		10420	46.02	-27.98	74	50.6	37.42	17.17	59.17	100	0	P	H
		15630	43.6	-30.4	74	40.49	40.55	19.68	57.12	100	0	P	H
													H
													H
		10405	50.37	-23.63	74	54.98	37.4	17.17	59.18	100	0	P	V
		15630	44.08	-29.92	74	40.97	40.55	19.68	57.12	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)****<WPC Charging Mode>**

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 42 5210MHz		10420	48.83	-25.17	74	53.41	37.42	17.17	59.17	100	0	P	H
		15630	43.76	-30.24	74	40.65	40.55	19.68	57.12	100	0	P	H
													H
													H
		10420	47.45	-26.55	74	52.03	37.42	17.17	59.17	100	0	P	V
		15630	43.62	-30.38	74	40.51	40.55	19.68	57.12	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

<PMA Charging Mode>

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		30	29.09	-10.91	40	33.37	26	1.07	31.35	100	0	P	H
		148.8	27.51	-15.99	43.5	39.48	17.75	1.78	31.5			P	H
		270.57	22.46	-23.54	46	32.08	19.39	2.32	31.33			P	H
		834.8	31.77	-14.23	46	29.83	28.41	4.1	30.57			P	H
		871.2	32.85	-13.15	46	30.4	28.83	4.17	30.55			P	H
		955.9	33.76	-12.24	46	30.01	30.21	4.07	30.53			P	H
													H
													H
													H
													H
													H
		56.19	36.04	-3.96	40	53.32	13.24	1.07	31.59	100	0	P	V
		206.31	36.7	-6.8	43.5	50.11	16.19	1.87	31.47			P	V
		217.11	22.18	-23.82	46	35.38	16.37	1.87	31.44			P	V
		796.3	30.95	-15.05	46	29.99	27.66	3.9	30.6			P	V
		880.3	32.17	-13.83	46	29.67	28.88	4.17	30.55			P	V
		951	33.26	-12.74	46	29.52	30.2	4.07	30.53			P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

<WPC Charging Mode>

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		90.75	29.09	-14.41	43.5	43.68	15.23	1.28	31.1			P	H
		187.14	34.19	-9.31	43.5	47.89	15.47	1.87	31.04	100	0	P	H
		216.57	32.62	-13.38	46	45.43	16.36	1.87	31.04			P	H
		760.6	31.52	-14.48	46	30.77	27.31	3.82	30.38			P	H
		839	32.43	-13.57	46	30.23	28.48	4.1	30.38			P	H
		990.2	34.27	-19.73	54	30.25	30.28	3.98	30.24			P	H
													H
													H
													H
													H
													H
													H
		53.22	32.96	-7.04	40	48.92	14.17	1.07	31.2	100	0	P	V
		187.95	29.87	-13.63	43.5	43.58	15.48	1.87	31.06			P	V
		223.59	22.61	-23.39	46	34.82	16.72	2.07	31			P	V
		720.7	30.07	-15.93	46	30	26.73	3.74	30.4			P	V
		869.1	32.99	-13.01	46	30.36	28.82	4.17	30.36			P	V
		992.3	33.89	-20.11	54	29.86	30.28	3.98	30.23			P	V
													V
													V
													V
													V
													V
													V
													V
Remark	3. No other spurious found. 4. 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	Peak or Average
H/V	Horizontal or Vertical



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+2		(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 B. Radiated Spurious Emission

Test Engineer :	Jesse Wang, James Chiu, and Kyle Chuang	Temperature :	21~23°C
		Relative Humidity :	55~58%

Note symbol

-L	Low channel location
-R	High channel location



Band 1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

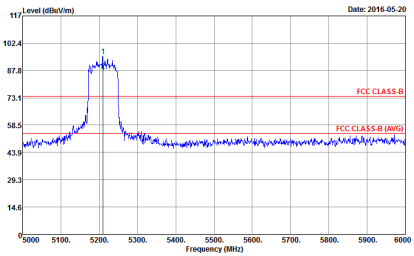
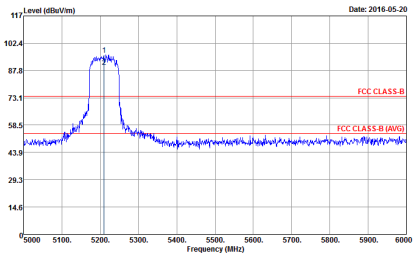
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WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Vertical
Peak	Level (dBuV/m) vs Frequency (MHz) for Horizontal Peak. The plot shows a blue line representing the signal level across the frequency range from 5000 to 5150 MHz. A red horizontal line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The signal level is consistently below this limit. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 HORIZONTAL RBW: 1000.000kHz VSW: 3000.000kHz SWT: Auto Detector : Peak Project : 640145-15 Mode : 1	Level (dBuV/m) vs Frequency (MHz) for Vertical Peak. The plot shows a blue line representing the signal level across the frequency range from 5000 to 5150 MHz. A red horizontal line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The signal level is consistently below this limit. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 VERTICAL RBW: 1000.000kHz VSW: 3000.000kHz SWT: Auto Detector : Peak Project : 640145-15 Mode : 1
Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal Average. The plot shows a blue line representing the average signal level across the frequency range from 5000 to 5150 MHz. A red horizontal line indicates the FCC CLASS-B (AVG) limit at approximately 73.1 dBuV/m. The signal level is consistently below this limit. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 HORIZONTAL RBW: 1000.000kHz VSW: 3.000kHz SWT: Auto Detector : Peak Project : 640145-15 Mode : 1	Level (dBuV/m) vs Frequency (MHz) for Vertical Average. The plot shows a blue line representing the average signal level across the frequency range from 5000 to 5150 MHz. A red horizontal line indicates the FCC CLASS-B (AVG) limit at approximately 73.1 dBuV/m. The signal level is consistently below this limit. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 VERTICAL RBW: 1000.000kHz VSW: 3.000kHz SWT: Auto Detector : Peak Project : 640145-15 Mode : 1



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Vertical
Peak	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below the limit, peaking at approximately 43.9 dBuV/m. A small peak is visible at 5350 MHz. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below the limit, peaking at approximately 43.9 dBuV/m. A small peak is visible at 5350 MHz. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1
Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below the limit, peaking at approximately 43.9 dBuV/m. A small peak is visible at 5350 MHz. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below the limit, peaking at approximately 43.9 dBuV/m. A small peak is visible at 5350 MHz. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1



WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1



Band 1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

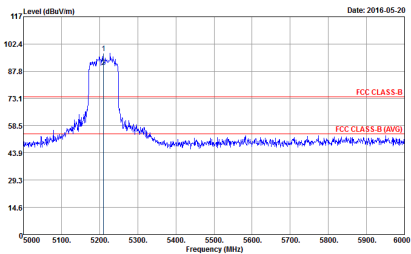
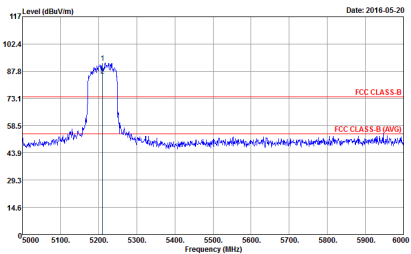
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WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Vertical
Peak	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The blue trace shows the measured signal level, which is mostly below the limit. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The blue trace shows the measured signal level, which is mostly below the limit. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1
Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 73.1 dBuV/m. The blue trace shows the average signal level, which is mostly below the limit. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 73.1 dBuV/m. The blue trace shows the average signal level, which is mostly below the limit. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Vertical
Peak	Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5350 to 5460 MHz. The plot shows a noisy baseline around 43.9 dBuV/m with a red line indicating the FCC CLASS-B limit at 73.1 dBuV/m. A small peak is visible at 5450 MHz. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Vertical Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5350 to 5460 MHz. The plot shows a noisy baseline around 43.9 dBuV/m with a red line indicating the FCC CLASS-B limit at 73.1 dBuV/m. A small peak is visible at 5450 MHz. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1
Avg.	Horizontal Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5350 to 5460 MHz. The plot shows a flat baseline around 43.9 dBuV/m with a red line indicating the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Vertical Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5350 to 5460 MHz. The plot shows a flat baseline around 43.9 dBuV/m with a red line indicating the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1



WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 640145-15 Mode : 1



Band 1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

<PMA Charging Mode>

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CM07-11Y Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Site : 03CM07-11Y Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 640145-15 Mode : 1



Band 1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

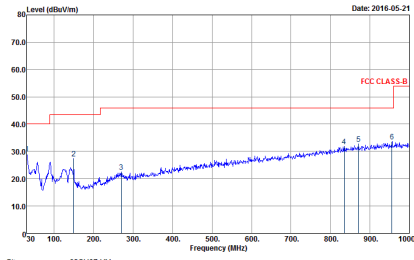
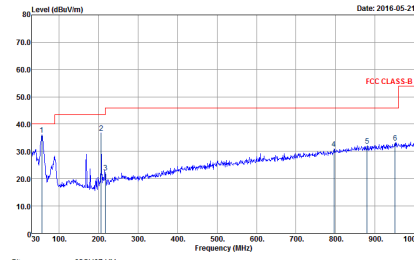
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WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH67.HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 640145-15 Mode : 1	Site : 03CH67.HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 640145-15 Mode : 1



Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

<PMA Charging Mode>

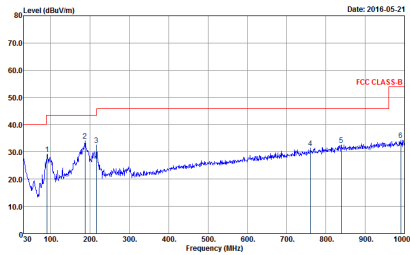
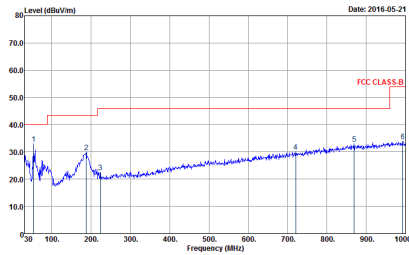
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ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 640145-15 Mode : 2	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 640145-15 Mode : 2



Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

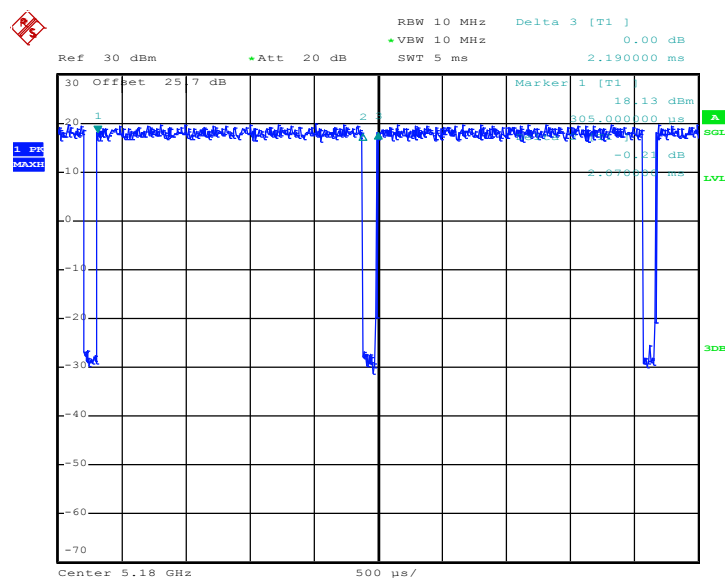
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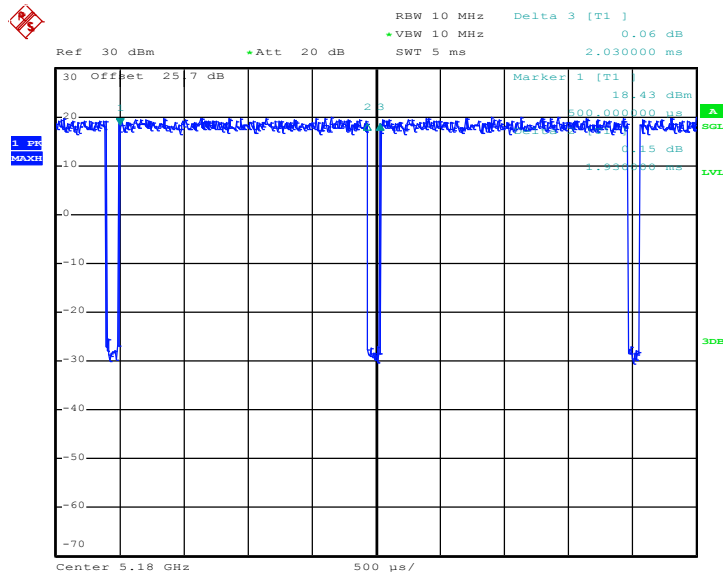
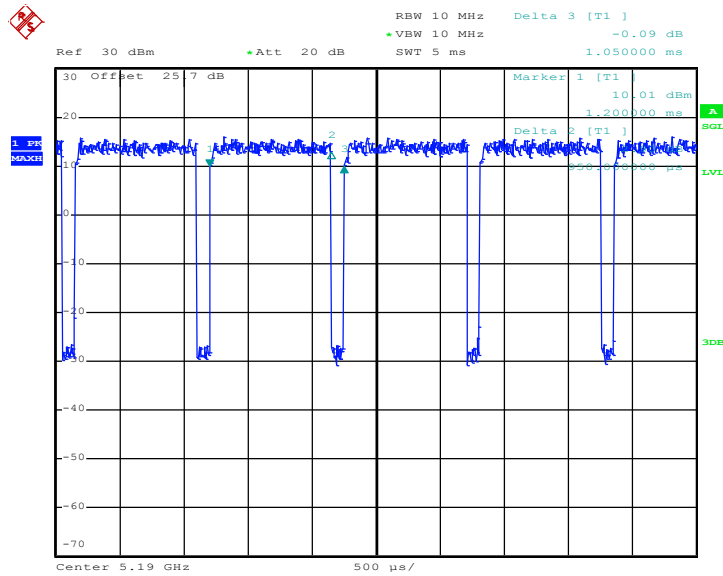
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH74HY Condition : FCC CLASS B 3m LF-ANT-35419(E) HORIZONTAL Detector : Peak Project : 640145-15 Mode : 2	 Site : 03CH74HY Condition : FCC CLASS B 3m LF-ANT-35419(E) VERTICAL Detector : Peak Project : 640145-15 Mode : 2



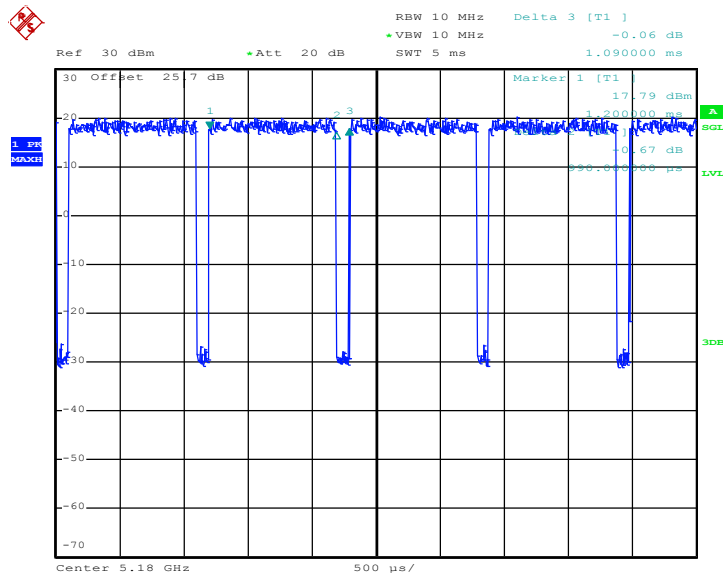
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11a for 1	94.52	2070	0.483091787	1kHz
1+2	802.11a for 2	94.95	2070	0.483091787	1kHz
1+2	5GHz 802.11n HT20 for 1	95.07	1930	0.518134715	1kHz
1+2	5GHz 802.11n HT20 for 2	95.07	1930	0.518134715	1kHz
1+2	5GHz 802.11n HT40 for 1	90.48	950	1.052631579	3kHz
1+2	5GHz 802.11n HT40 for 2	88.79	950	1.052631579	3kHz
1+2	5GHz 802.11n VHT20 for 1	90.83	990	1.01010101	3kHz
1+2	5GHz 802.11n VHT20 for 2	0.90	990	1.01010101	3kHz
1+2	5GHz 802.11n VHT40 for 1	90.57	960	1.041666667	3kHz
1+2	5GHz 802.11n VHT40 for 2	90.57	960	1.041666667	3kHz
1+2	5GHz 802.11n VHT80 for 1	85.71	600	1.666666667	3kHz
1+2	5GHz 802.11n VHT80 for 2	85.71	600	1.666666667	3kHz

802.11a

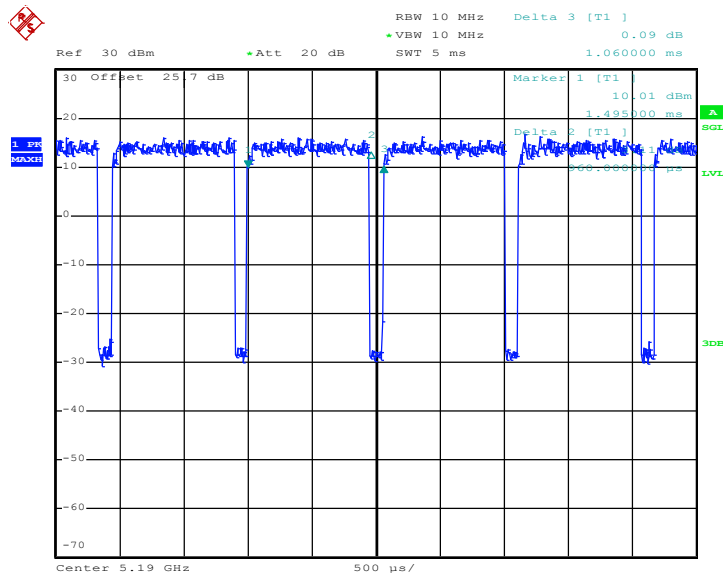


802.11n HT20

802.11n HT40


802.11ac VHT20

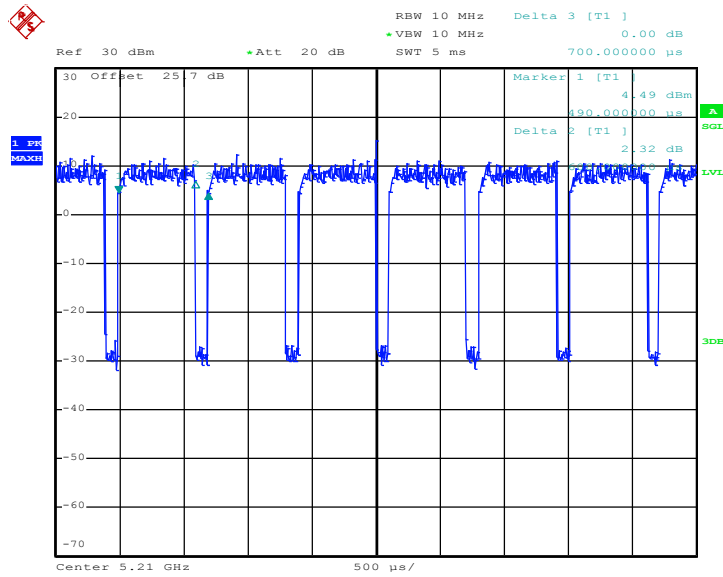


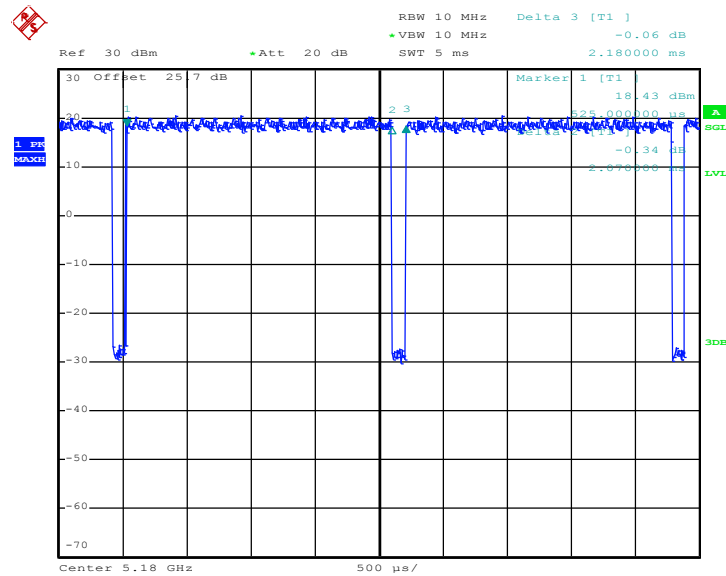
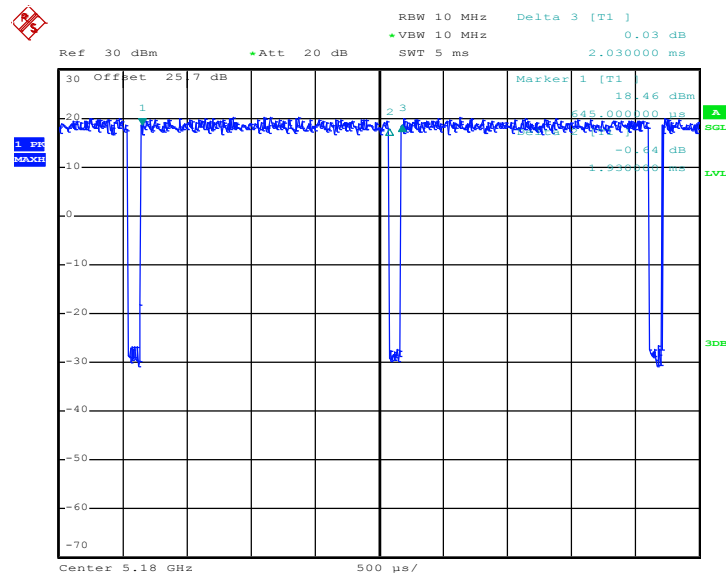
802.11ac VHT40





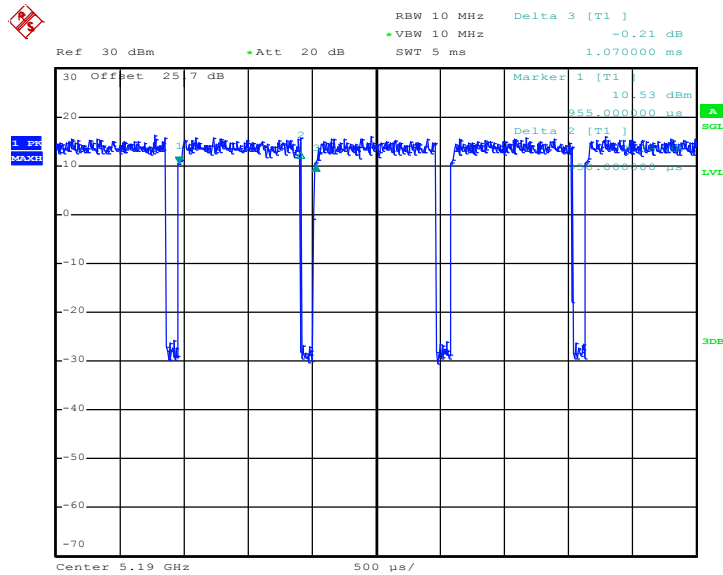
802.11ac VHT80



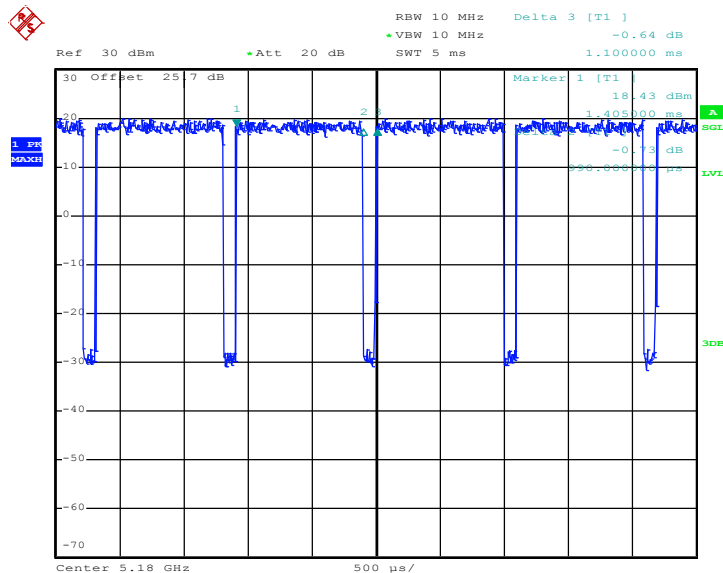
MIMO <Ant. 1+2(2)>
802.11a

802.11n HT20




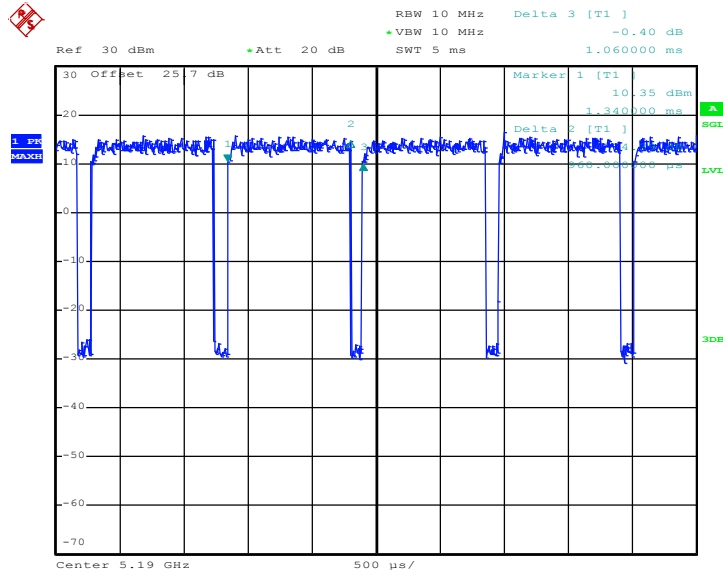
802.11n HT40



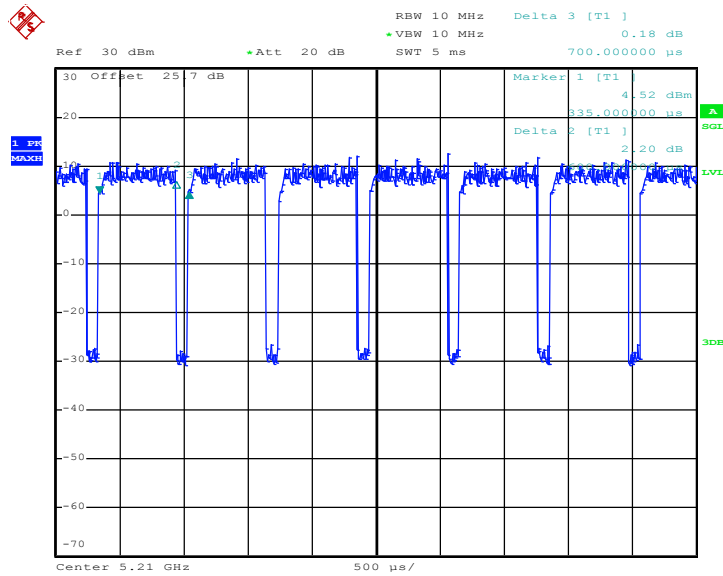
802.11ac VHT20



802.11ac VHT40



802.11ac VHT80





Appendix D. Original Report

Please refer to Sporton report number FR640145D as below.



FCC RF Test Report

APPLICANT : Motorola Mobility, LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 6574
FCC ID : IHDT56VB2
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Apr. 01, 2016 and testing was completed on Apr. 29, 2016. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : IHDT56VB2

Page Number : 1 of 41

Report Issued Date : May 11, 2016

Report Version : Rev. 01

Report Template No.: BU5-FR15EWL AC MA Version 1.4



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR640145D	Rev. 01	Initial issue of report	May 11, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 0.20 dB at 5148.800 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.60 dB at 0.630 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	6574
FCC ID	IHDT56VB2
IMEI Code	354108070054047 (for Radiated Spurious Emission) 354108070053932 (for AC Conducted Emission)
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/FM 2.4GHz WLAN 11b/g/n HT20 WLAN 11ac VHT20 5GHz WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v3.0 EDR Bluetooth v4.2 LE
HW Version	DVT2
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.

Accessory List	
AC Adapter	Brand Name : Motorola
	Model Name : SPN5912A



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power	<5180 MHz ~ 5240 MHz> SISO <Ant. 1> 802.11a : 16.65 dBm / 0.0462 W 802.11n HT20 : 16.46 dBm / 0.0443 W 802.11n HT40 : 14.76 dBm / 0.0299 W 802.11ac VHT20: 16.43 dBm / 0.0440 W 802.11ac VHT40: 14.82 dBm / 0.0303 W 802.11ac VHT80: 13.25 dBm / 0.0211 W SISO <Ant. 2> 802.11a : 16.46 dBm / 0.0443 W 802.11n HT20 : 16.22 dBm / 0.0419 W 802.11n HT40 : 14.46 dBm / 0.0279 W 802.11ac VHT20: 16.32 dBm / 0.0429 W 802.11ac VHT40: 14.70 dBm / 0.0295 W 802.11ac VHT80: 13.19 dBm / 0.0208 W MIMO <Ant. 1 + 2> 802.11a : 18.85 dBm / 0.0767 W 802.11n HT20 : 18.74 dBm / 0.0748 W 802.11n HT40 : 17.12 dBm / 0.0515 W 802.11ac VHT20: 18.99 dBm / 0.0793 W 802.11ac VHT40: 17.04 dBm / 0.0506 W 802.11ac VHT80: 15.82 dBm / 0.0382 W <5260 MHz ~ 5320 MHz> SISO <Ant. 1> 802.11a : 16.79 dBm / 0.0478 W 802.11n HT20 : 16.54 dBm / 0.0451 W 802.11n HT40 : 14.90 dBm / 0.0309 W 802.11ac VHT20: 16.46 dBm / 0.0443 W 802.11ac VHT40: 14.94 dBm / 0.0312 W 802.11ac VHT80: 12.52 dBm / 0.0179 W SISO <Ant. 2> 802.11a : 16.47 dBm / 0.0444 W 802.11n HT20 : 16.32 dBm / 0.0429 W 802.11n HT40 : 14.50 dBm / 0.0282 W 802.11ac VHT20: 16.31 dBm / 0.0428 W 802.11ac VHT40: 14.71 dBm / 0.0296 W 802.11ac VHT80: 12.21 dBm / 0.0166 W MIMO <Ant. 1 + 2> 802.11a : 18.94 dBm / 0.0783 W 802.11n HT20 : 18.73 dBm / 0.0746 W 802.11n HT40 : 17.23 dBm / 0.0528 W 802.11ac VHT20: 18.75 dBm / 0.0750 W 802.11ac VHT40: 17.18 dBm / 0.0522 W 802.11ac VHT80: 15.18 dBm / 0.0330 W

Product Specification subjective to this standard			
Maximum Output Power	<5500 MHz ~ 5700 MHz> SISO <Ant. 1> 802.11a : 16.77 dBm / 0.0475 W 802.11n HT20 : 16.62 dBm / 0.0459 W 802.11n HT40 : 14.70 dBm / 0.0295 W 802.11ac VHT20: 16.59 dBm / 0.0456 W 802.11ac VHT40: 14.74 dBm / 0.0298 W 802.11ac VHT80: 14.65 dBm / 0.0292 W SISO <Ant. 2> 802.11a : 16.64 dBm / 0.0461 W 802.11n HT20 : 16.39 dBm / 0.0436 W 802.11n HT40 : 14.73 dBm / 0.0297 W 802.11ac VHT20: 16.40 dBm / 0.0437 W 802.11ac VHT40: 14.77 dBm / 0.0300 W 802.11ac VHT80: 14.52 dBm / 0.0283 W MIMO <Ant. 1 + 2> 802.11a : 19.15 dBm / 0.0822 W 802.11n HT20 : 19.00 dBm / 0.0794 W 802.11n HT40 : 17.09 dBm / 0.0512 W 802.11ac VHT20: 18.97 dBm / 0.0789 W 802.11ac VHT40: 17.06 dBm / 0.0508 W 802.11ac VHT80: 17.21 dBm / 0.0526 W		
99% Occupied Bandwidth	802.11a : 17.75 MHz 802.11n HT20 : 18.45 MHz 802.11n HT40 : 36.40 MHz 802.11ac VHT20 : 18.65 MHz 802.11ac VHT40 : 36.30 MHz 802.11ac VHT80 : 75.60 MHz		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Type	Fixed Internal Antenna type (The antenna peak gain of EUT is less than 6 dBi)		
Antenna Function Description			
	802.11 a/a/n/ac SISO	Ant.1 V	Ant.2 V
	802.11 a/n/ac MIMO	V	V

1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH02-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH11-HY	

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 v01r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ♦ 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

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: conducted emission (150 kHz to 30 MHz) and radiated 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 (Z plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.



2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240
	42	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320
	58	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	120	5600
	102	5510	122	5610
	104	5520	124	5620
	108	5540	126	5630
	110	5550	128	5640
	112	5560	132	5660
	114	5570	134	5670
	116	5580	136	5680
	118	5590	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	144	5720	142	5710
	138	5690		

Note: The above Frequency and Channel in boldface were 802.11n HT40.



2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables.

SISO <Ant. 1>

Channel	Frequency	5GHz 802.11a Average Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	16.57	16.20	16.21	15.80	15.46	15.29	14.50	14.51
CH 44	5220 MHz	16.50	16.01	16.05	15.77	15.23	15.05	14.33	14.35
CH 48	5240 MHz	16.65	16.25	16.39	15.90	15.50	15.42	14.58	14.58
CH 52	5260 MHz	16.79	16.31	16.40	15.90	15.53	15.43	14.56	14.65
CH 60	5300 MHz	16.55	16.16	16.15	15.79	15.34	15.26	14.39	14.49
CH 64	5320 MHz	16.45	16.42	16.43	15.88	15.29	15.33	14.56	14.51
CH 100	5500 MHz	16.77	16.54	16.62	16.14	15.62	15.71	15.10	14.60
CH 116	5580 MHz	16.74	16.50	16.53	16.11	15.62	15.68	15.08	14.58
CH 140	5700 MHz	15.97	15.93	15.95	15.68	15.30	15.29	14.67	14.02

Channel	Frequency	5GHz 802.11n HT20 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	16.37	16.20	16.35	15.58	15.55	14.98	14.03	13.99
CH 44	5220 MHz	16.29	16.02	16.16	15.47	15.41	14.87	13.89	13.93
CH 48	5240 MHz	16.46	16.22	16.32	15.60	15.58	15.02	14.05	14.10
CH 52	5260 MHz	16.54	16.28	16.38	15.66	15.61	15.13	14.13	14.14
CH 60	5300 MHz	16.26	15.98	16.12	15.41	15.34	14.82	13.84	13.80
CH 64	5320 MHz	16.25	16.10	16.22	15.45	15.34	14.85	13.62	13.53
CH 100	5500 MHz	16.56	16.53	16.55	15.75	15.77	15.12	13.71	13.75
CH 116	5580 MHz	16.62	16.60	16.60	15.79	15.81	15.22	13.74	13.76
CH 140	5700 MHz	15.95	15.94	15.93	15.32	15.35	14.82	13.39	13.19

Channel	Frequency	5GHz 802.11n HT40 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	13.56	13.52	13.55	13.46	13.46	13.51	13.54	13.00
CH 46	5230MHz	14.76	14.69	14.73	13.78	13.63	13.66	13.72	13.04
CH 54	5270MHz	14.90	14.87	14.86	13.85	13.99	13.93	14.03	13.26
CH 62	5310MHz	14.23	14.20	14.17	13.93	13.71	13.69	14.08	13.20
CH 102	5510MHz	14.00	13.94	13.96	13.91	13.97	13.94	13.85	13.09
CH 110	5550MHz	14.70	14.63	14.66	13.77	13.81	13.97	13.69	12.96
CH 134	5670MHz	14.66	14.62	14.61	13.74	13.77	13.76	13.26	12.38



Channel	Frequency	5GHz 802.11ac VHT20 Average Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	16.33	16.07	16.10	15.24	15.22	14.42	13.57	12.74	11.86
CH 44	5220 MHz	16.22	15.97	15.81	14.96	14.78	13.95	13.25	12.34	11.38
CH 48	5240 MHz	16.43	16.05	16.02	14.91	14.89	14.11	13.23	12.28	11.62
CH 52	5260 MHz	16.46	16.25	16.40	15.45	15.57	14.73	13.69	12.51	9.72
CH 60	5300 MHz	16.16	15.81	15.92	14.90	15.04	14.31	13.14	12.20	11.25
CH 64	5320 MHz	16.22	15.87	15.94	15.13	15.06	14.27	13.19	12.16	11.31
CH 100	5500 MHz	16.59	16.34	16.49	15.43	15.42	14.78	13.22	12.57	11.51
CH 116	5580 MHz	16.46	16.08	16.16	15.34	15.40	14.55	13.52	12.77	10.55
CH 140	5700 MHz	15.87	15.78	15.86	15.00	15.07	14.25	12.83	11.93	10.03

Channel	Frequency	5GHz 802.11ac VHT40 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	13.60	13.57	13.54	13.53	13.56	13.56	13.58	12.91	10.60	8.82
CH 46	5230MHz	14.82	14.79	14.69	13.74	13.77	13.83	13.66	12.84	9.27	7.48
CH 54	5270MHz	14.94	14.89	14.93	13.84	14.12	14.16	13.93	12.98	9.60	7.39
CH 62	5310MHz	14.25	14.15	14.21	13.65	13.78	13.82	13.53	12.70	8.91	6.94
CH 102	5510MHz	13.98	13.89	13.95	13.79	13.66	13.89	13.46	12.40	9.41	7.50
CH 110	5550MHz	14.74	14.69	14.65	13.81	13.72	13.87	13.37	12.30	9.48	7.85
CH 134	5670MHz	14.56	14.47	14.54	13.72	13.79	13.81	13.30	12.43	9.57	7.66

Channel	Frequency	5GHz 802.11ac VHT80 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 042	5210MHz	13.25	13.22	13.20	13.17	13.21	13.20	13.23	12.98	8.94	8.34
CH 058	5290MHz	12.52	12.48	12.50	12.46	12.46	12.48	12.51	12.50	9.13	8.23
CH 106	5530MHz	9.34	9.24	9.06	8.88	8.94	8.97	8.92	8.79	9.18	7.83
CH 122	5610MHz	14.65	14.60	14.50	14.64	14.63	14.33	13.82	12.78	9.20	8.34



SISO <Ant. 2>

Channel	Frequency	5GHz 802.11a Average Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	16.42	16.18	16.19	15.84	15.32	15.32	14.64	14.70
CH 44	5220 MHz	16.31	15.98	16.02	15.72	15.30	15.27	14.64	14.71
CH 48	5240 MHz	16.46	16.23	16.29	15.93	15.45	15.37	14.67	14.79
CH 52	5260 MHz	16.47	16.13	16.11	15.82	15.22	15.34	14.58	14.58
CH 60	5300 MHz	16.30	16.08	15.94	15.79	15.18	15.27	14.69	14.59
CH 64	5320 MHz	16.22	15.99	15.91	15.64	15.11	15.16	14.58	14.67
CH 100	5500 MHz	16.64	16.58	16.63	16.10	15.52	15.61	14.99	15.01
CH 116	5580 MHz	16.59	16.58	16.56	16.13	15.47	15.43	14.96	14.99
CH 140	5700 MHz	15.62	15.59	15.61	15.16	14.78	14.80	14.06	13.95

Channel	Frequency	5GHz 802.11n HT20 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	16.14	16.03	16.12	15.60	15.59	14.89	14.46	14.28
CH 44	5220 MHz	16.14	16.07	16.01	15.58	15.64	14.97	14.50	14.38
CH 48	5240 MHz	16.22	16.17	16.19	15.62	15.66	14.92	14.55	14.39
CH 52	5260 MHz	16.32	16.21	16.21	15.73	15.69	14.94	14.48	14.46
CH 60	5300 MHz	16.03	15.92	15.82	15.41	15.31	14.66	14.26	14.21
CH 64	5320 MHz	15.98	15.82	15.97	15.35	15.27	14.57	14.20	14.07
CH 100	5500 MHz	16.38	16.21	16.36	15.73	15.64	15.07	14.50	14.24
CH 116	5580 MHz	16.39	16.22	16.35	15.77	15.66	15.21	14.54	14.27
CH 140	5700 MHz	15.40	15.37	15.38	14.62	14.76	14.03	13.30	13.22

Channel	Frequency	5GHz 802.11n HT40 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	13.76	13.54	13.52	13.50	13.47	13.41	13.72	13.68
CH 46	5230MHz	14.46	14.42	14.39	13.47	13.66	13.49	14.11	13.31
CH 54	5270MHz	14.50	14.43	14.40	13.37	13.60	13.53	13.94	13.03
CH 62	5310MHz	14.17	14.12	14.00	13.36	13.55	13.44	13.93	13.00
CH 102	5510MHz	13.59	13.54	13.57	13.57	13.50	13.55	13.58	13.09
CH 110	5550MHz	14.73	14.66	14.27	13.30	13.77	13.73	13.85	12.90
CH 134	5670MHz	14.09	14.07	14.08	13.16	13.36	13.11	13.35	12.43



Channel	Frequency	5GHz 802.11ac VHT20 Average Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	16.22	15.88	15.97	15.19	15.27	14.52	13.80	12.89	12.06
CH 44	5220 MHz	16.00	15.79	15.76	15.15	14.99	14.30	13.69	12.76	11.87
CH 48	5240 MHz	16.32	16.02	16.16	15.23	15.23	14.39	13.82	12.80	11.81
CH 52	5260 MHz	16.31	16.11	16.06	15.14	15.26	14.33	13.86	12.90	12.00
CH 60	5300 MHz	16.11	15.75	15.96	15.03	15.03	14.23	13.63	12.71	12.02
CH 64	5320 MHz	16.07	15.82	15.95	15.01	15.11	14.46	13.74	12.68	11.85
CH 100	5500 MHz	16.40	16.02	16.17	15.39	15.42	14.77	13.83	12.88	12.07
CH 116	5580 MHz	16.35	16.19	16.21	15.38	15.48	14.56	13.74	12.74	11.78
CH 140	5700 MHz	15.76	15.65	15.70	14.94	14.95	14.14	13.30	12.23	11.35

Channel	Frequency	5GHz 802.11ac VHT40 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	13.77	13.66	13.72	13.57	13.67	13.69	13.72	13.00	11.80	9.85
CH 46	5230MHz	14.70	14.68	14.66	13.74	13.92	13.87	14.03	13.11	11.78	9.79
CH 54	5270MHz	14.71	14.65	14.61	13.78	13.77	13.53	14.04	13.23	11.13	9.35
CH 62	5310MHz	13.90	13.88	13.86	13.59	13.58	13.60	13.78	13.14	11.09	9.24
CH 102	5510MHz	13.68	13.59	13.56	13.65	13.57	13.54	13.63	12.68	11.02	9.15
CH 110	5550MHz	14.77	14.75	14.73	13.53	13.71	13.39	14.03	13.04	10.90	9.07
CH 134	5670MHz	14.27	14.24	14.26	13.36	13.43	13.48	13.35	12.32	10.59	7.99

Channel	Frequency	5GHz 802.11ac VHT80 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 042	5210MHz	13.19	13.05	13.13	13.03	13.14	13.08	13.17	12.88	10.43	9.46
CH 058	5290MHz	12.21	12.08	12.12	12.06	12.11	11.98	12.18	12.12	9.93	9.11
CH 106	5530MHz	9.63	9.51	9.59	9.60	9.61	9.54	9.57	9.61	9.61	8.84
CH 122	5610MHz	14.52	14.50	14.49	14.51	14.46	13.61	13.60	12.62	9.57	8.66



MIMO <Ant. 1+2>

Channel	Frequency	5GHz 802.11a Average Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	18.71	18.55	18.62	18.26	17.76	18.04	17.25	17.38
CH 44	5220 MHz	18.82	18.60	18.67	18.29	17.83	18.02	17.35	17.46
CH 48	5240 MHz	18.85	18.70	18.78	18.35	17.87	18.02	17.31	17.51
CH 52	5260 MHz	18.94	18.70	18.76	18.39	17.89	18.09	17.35	17.53
CH 60	5300 MHz	18.68	18.43	18.57	18.03	17.90	18.28	17.10	17.15
CH 64	5320 MHz	18.66	18.39	18.52	18.02	17.86	17.74	17.02	17.12
CH 100	5500 MHz	19.15	18.91	18.93	18.58	18.07	18.25	17.52	17.69
CH 116	5580 MHz	19.08	18.84	18.89	18.52	18.01	18.10	17.95	17.59
CH 140	5700 MHz	18.40	18.33	18.37	17.87	17.30	17.38	16.88	16.63

Channel	Frequency	5GHz 802.11n HT20 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	18.68	18.67	18.63	17.95	18.08	17.33	16.93	17.00
CH 44	5220 MHz	18.60	18.57	18.49	17.85	18.00	17.23	16.80	16.86
CH 48	5240 MHz	18.74	18.72	18.65	17.98	18.08	17.44	16.94	17.07
CH 52	5260 MHz	18.73	18.66	18.61	17.94	18.10	17.35	16.81	17.02
CH 60	5300 MHz	18.48	18.43	17.47	17.68	17.93	17.19	16.57	16.49
CH 64	5320 MHz	18.42	18.40	18.40	17.69	17.84	17.07	16.42	16.29
CH 100	5500 MHz	19.00	18.79	18.77	18.08	18.30	17.51	17.14	17.18
CH 116	5580 MHz	18.84	18.71	18.66	18.00	18.21	17.86	16.90	16.83
CH 140	5700 MHz	18.18	18.06	17.95	17.39	17.50	17.21	16.36	16.25

Channel	Frequency	5GHz 802.11n HT40 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	16.51	16.47	16.38	16.48	16.43	16.48	16.48	16.22
CH 46	5230MHz	17.12	17.09	17.09	16.41	16.60	16.54	16.92	16.38
CH 54	5270MHz	17.23	17.20	17.18	16.53	16.65	16.65	17.07	16.11
CH 62	5310MHz	16.83	16.80	16.66	16.38	16.48	16.47	16.76	16.13
CH 102	5510MHz	16.64	16.62	16.55	16.55	16.63	16.61	16.59	16.19
CH 110	5550MHz	17.09	17.07	16.67	16.29	16.45	16.53	16.55	15.82
CH 134	5670MHz	16.96	16.93	16.90	16.22	16.28	16.40	16.26	15.36



Channel	Frequency	5GHz 802.11ac VHT20 Average Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	18.73	18.63	18.70	18.01	17.94	18.02	16.93	15.99	15.53
CH 44	5220 MHz	18.66	18.47	18.66	18.08	17.98	17.65	16.80	15.67	14.77
CH 48	5240 MHz	18.99	18.82	18.91	18.02	17.57	17.51	17.00	15.82	15.08
CH 52	5260 MHz	18.75	18.64	18.72	18.07	18.06	17.64	16.86	15.87	15.19
CH 60	5300 MHz	18.55	18.38	18.47	17.53	17.79	17.04	16.79	15.64	14.97
CH 64	5320 MHz	18.52	18.15	18.33	17.41	17.40	16.60	16.10	14.96	14.33
CH 100	5500 MHz	18.97	18.65	18.78	17.97	18.08	17.51	16.67	15.78	15.79
CH 116	5580 MHz	18.85	18.75	18.81	17.97	18.08	17.69	16.83	16.04	15.49
CH 140	5700 MHz	18.24	17.88	17.99	17.36	17.47	16.71	16.07	14.99	14.21

Channel	Frequency	5GHz 802.11ac VHT40 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	16.30	16.27	16.24	16.19	16.28	16.27	15.90	15.89	14.26	12.24
CH 46	5230MHz	17.04	17.02	16.99	16.41	16.30	16.45	16.41	15.91	13.55	11.64
CH 54	5270MHz	17.18	17.14	17.16	16.42	16.57	16.55	16.67	16.07	13.39	11.22
CH 62	5310MHz	16.72	16.67	16.70	16.51	16.63	16.50	16.55	15.81	13.06	11.15
CH 102	5510MHz	16.63	16.19	16.45	16.53	16.40	16.59	16.59	15.78	13.42	11.46
CH 110	5550MHz	17.06	17.03	16.97	16.34	16.36	16.42	16.49	15.69	13.58	11.26
CH 134	5670MHz	16.84	16.82	16.81	16.09	16.37	16.19	16.13	15.38	13.15	11.02

Channel	Frequency	5GHz 802.11ac VHT80 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 042	5210MHz	15.82	15.78	15.81	15.69	15.73	15.73	15.77	15.70	12.70	11.70
CH 058	5290MHz	15.18	15.10	15.12	15.02	15.13	15.17	15.16	15.17	13.02	11.93
CH 106	5530MHz	12.36	12.32	12.34	12.26	12.31	12.25	12.33	12.28	12.34	11.51
CH 122	5610MHz	17.21	17.19	17.16	17.20	17.19	16.88	16.82	15.94	12.53	11.76

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Single Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

MIMO Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Adapter + MP3

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144



Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

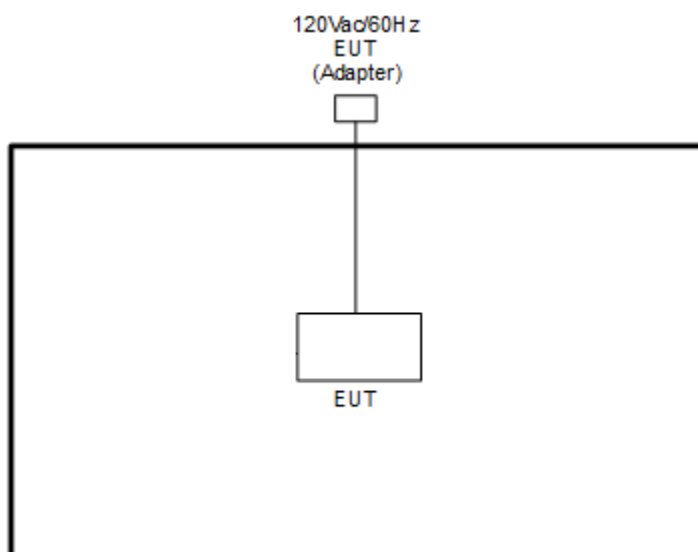
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

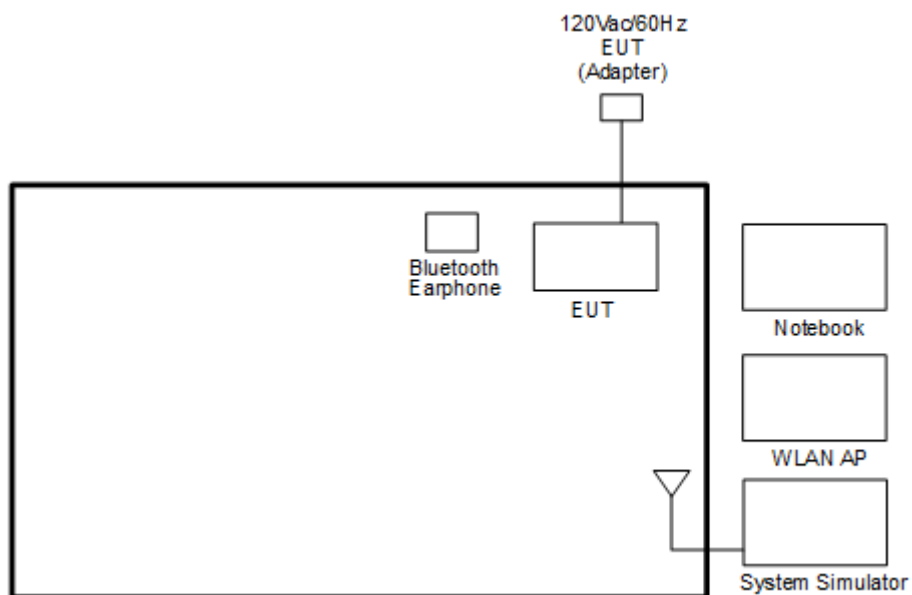
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	-
M	Middle	42	58	106
H	High	-	-	-
Straddle		-	-	138

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.5 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, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "QRCT" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, U-NII procedures were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

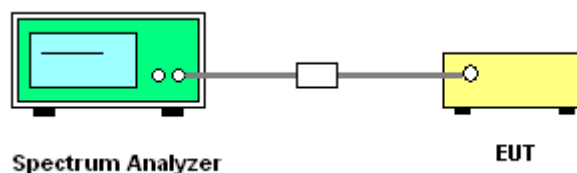
3.1.2 Measuring Instruments

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 v01r02. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

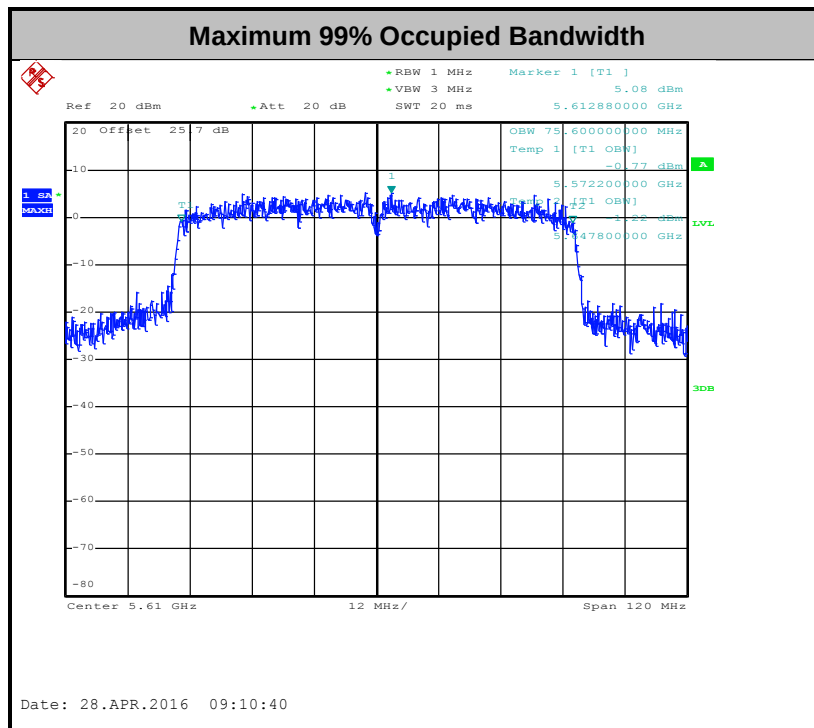
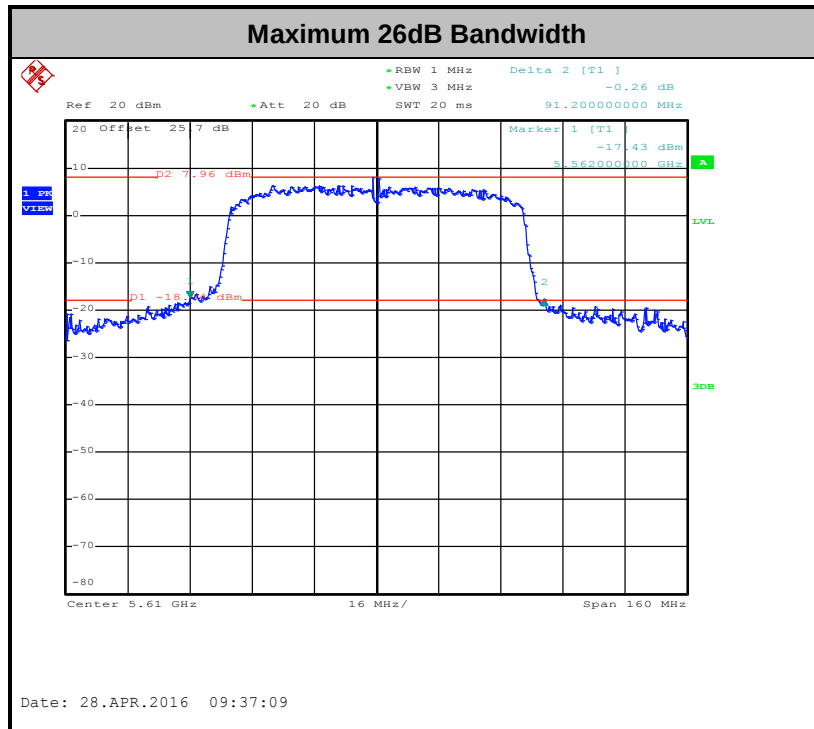
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.





3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

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 v01r02.

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

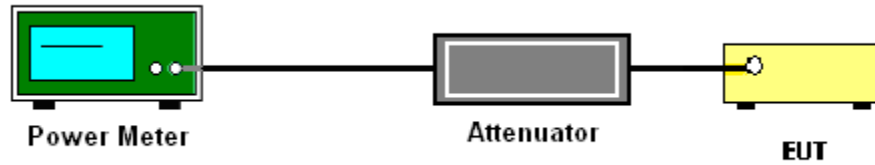
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x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

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.

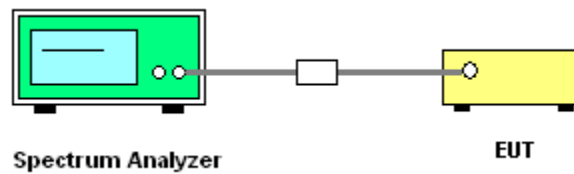
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.2.4 Test Setup

For normal channel:



For straddle channel:



3.2.5 Test Result of Maximum Conducted Output Power

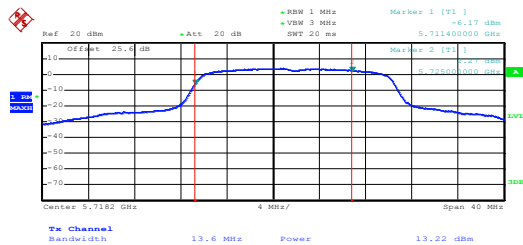
Please refer to Appendix A.



Maximum Straddle Channel Power

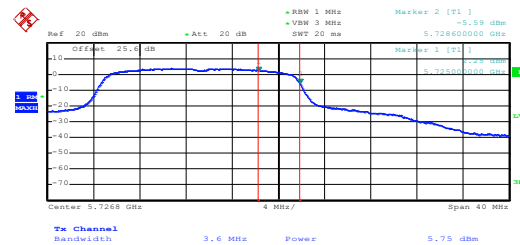
MIMO Ant. 1

NII-2C Band



Date: 17.APR.2016 13:08:26

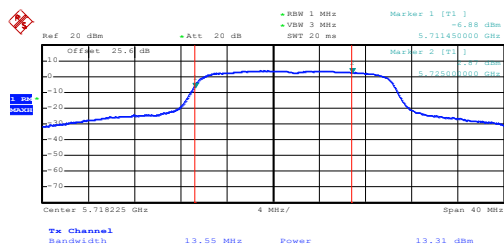
DTS Band



Date: 17.APR.2016 13:09:11

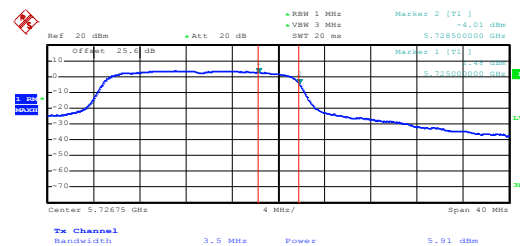
MIMO Ant. 2

NII-2C Band



Date: 17.APR.2016 13:10:51

DTS Band



Date: 17.APR.2016 13:11:31



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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 v01r02.

Section F) Maximum power spectral density.

Method SA-2

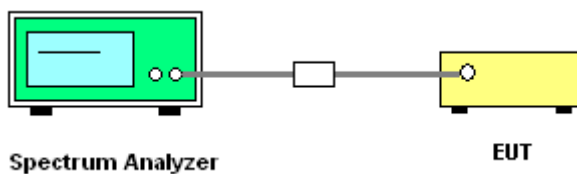
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 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 $10 \log(1/x)$, 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.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (1): Measure and sum the spectra across the outputs.

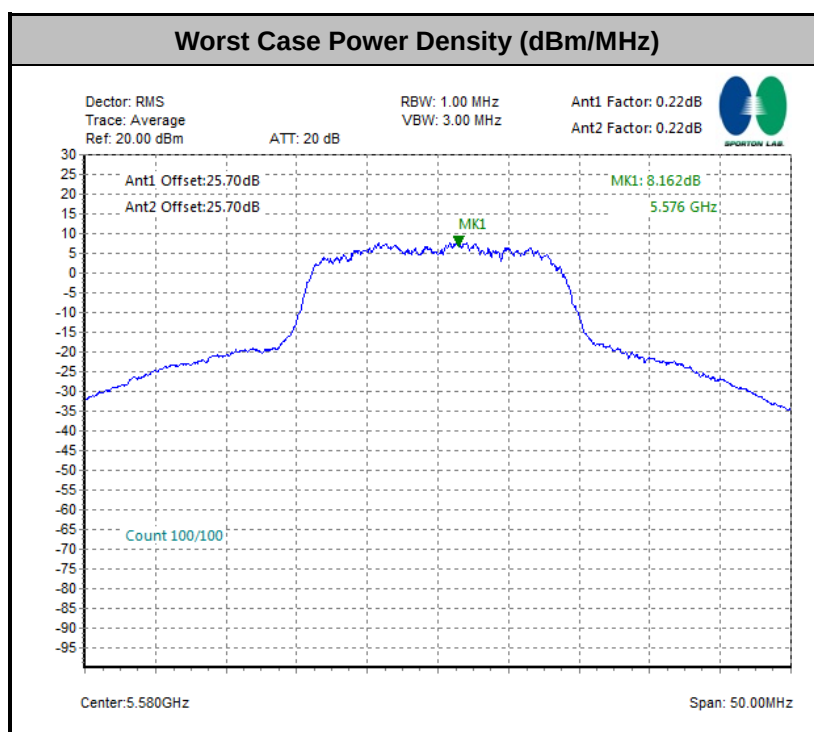
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 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

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

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

- (3) KDB789033 D02 v01r02 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

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

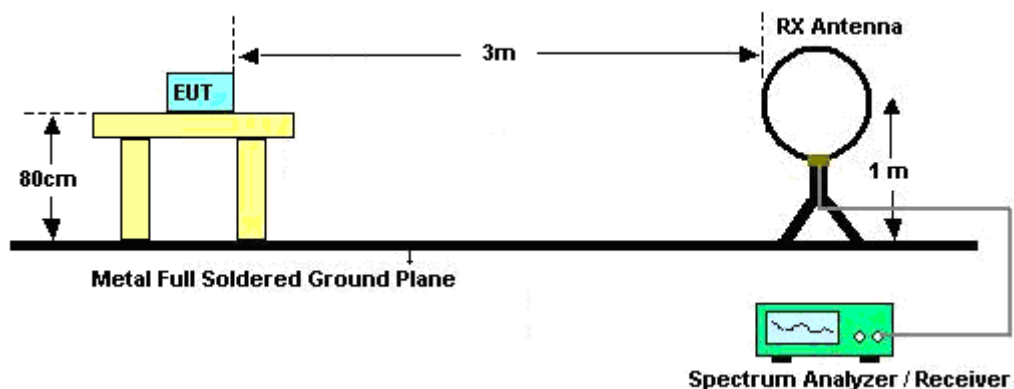
3.4.3 Test Procedures

1. The testing follows FCC ANSI C63.10-2013
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.

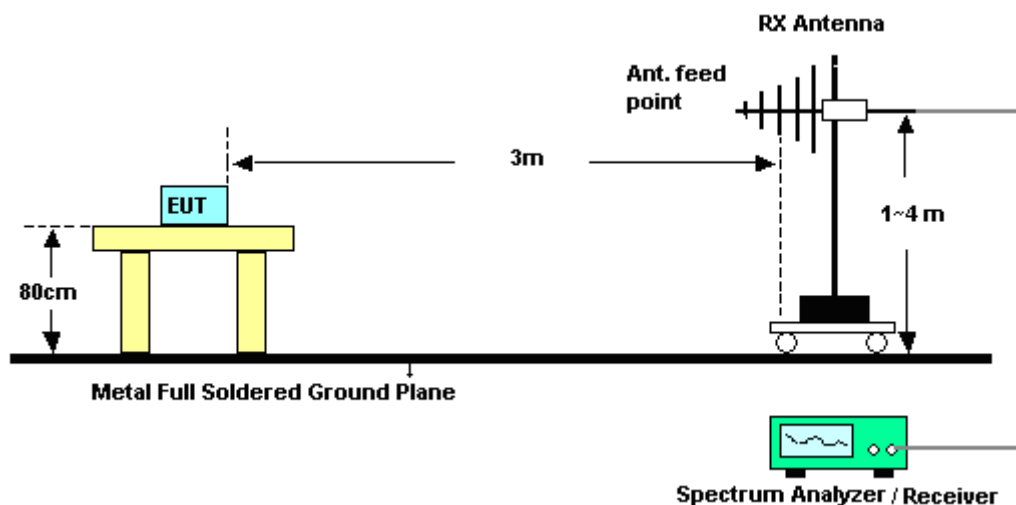
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, 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

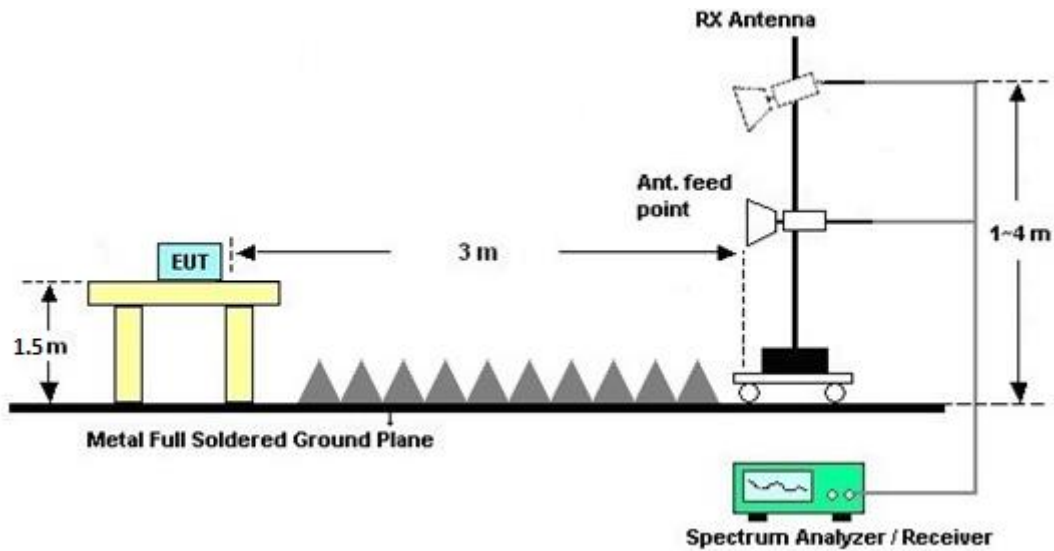
For radiated emissions below 30MHz



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 per 15.31(o) was not reported.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix B and 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 B and 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.

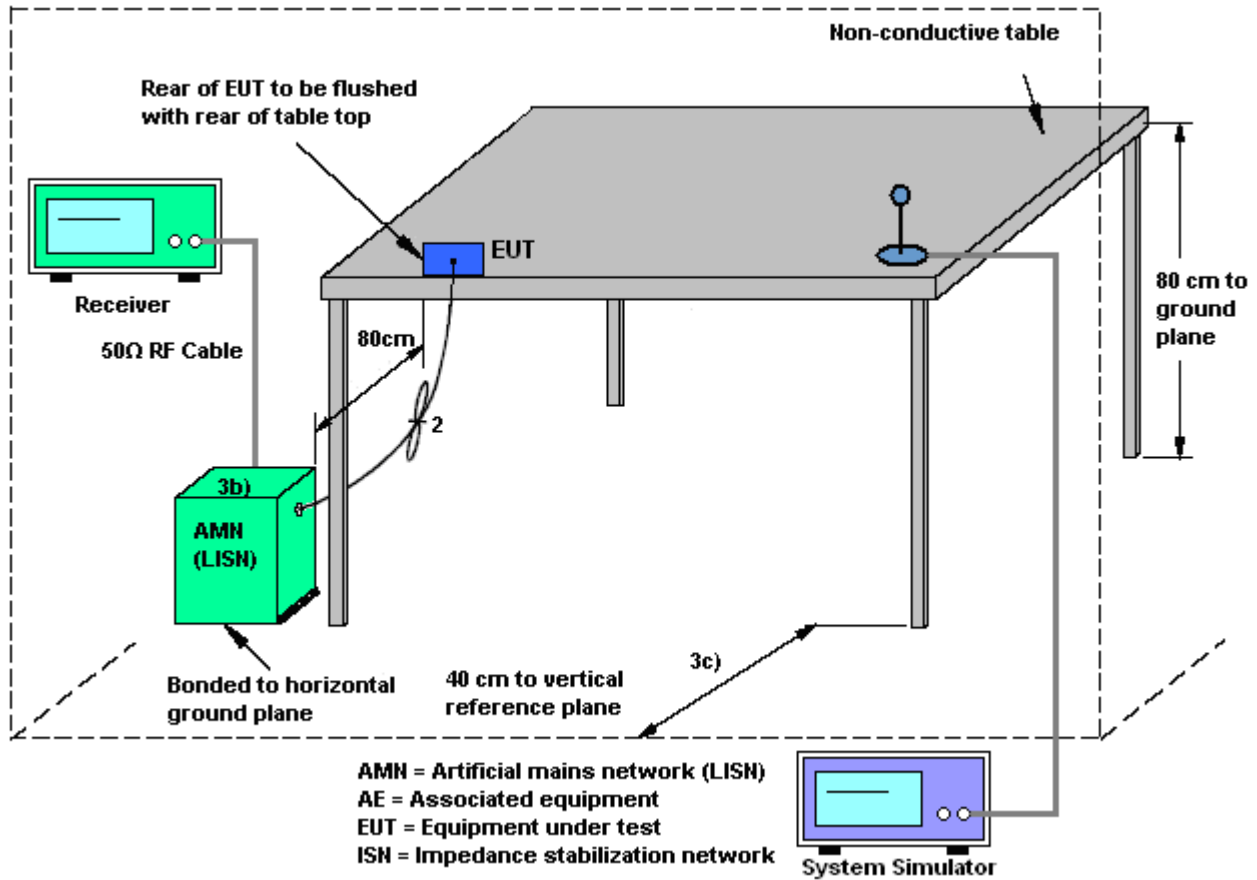
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

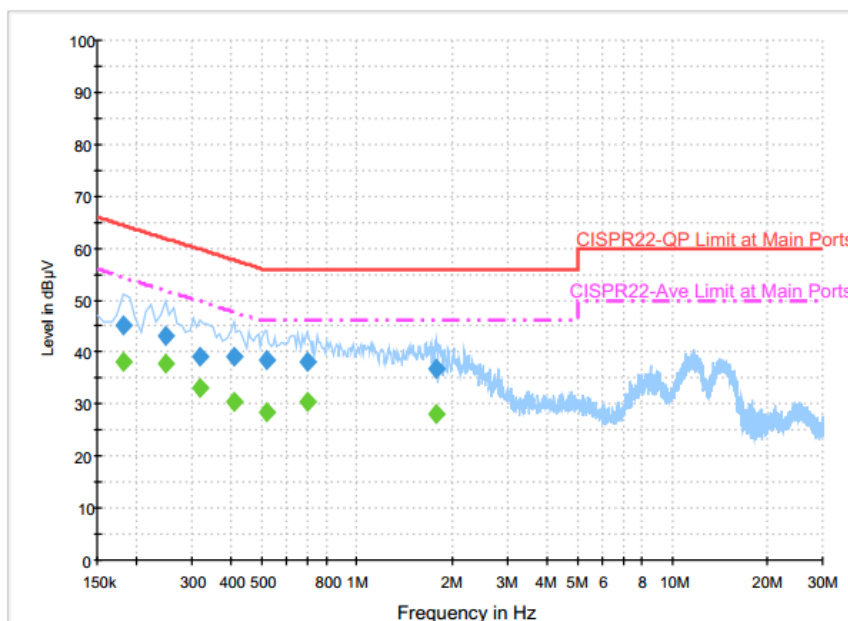
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Adapter + MP3		



Final Result : QuasiPeak

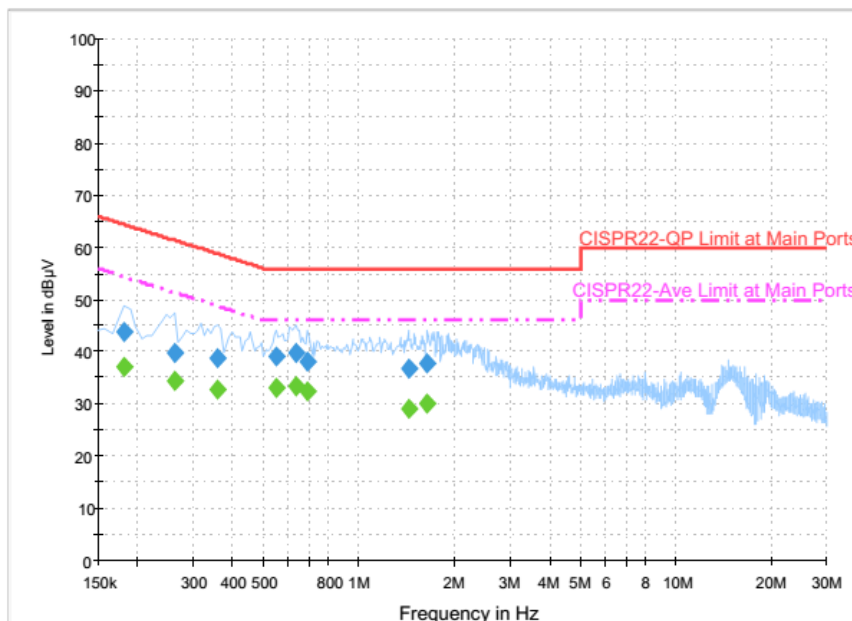
Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.182000	45.0	Off	L1	19.6	19.4	64.4
0.246000	43.3	Off	L1	19.6	18.6	61.9
0.318000	39.2	Off	L1	19.6	20.6	59.8
0.406000	39.0	Off	L1	19.6	18.7	57.7
0.518000	38.3	Off	L1	19.6	17.7	56.0
0.694000	38.2	Off	L1	19.6	17.8	56.0
1.782000	36.6	Off	L1	19.6	19.4	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.182000	38.0	Off	L1	19.6	16.4	54.4
0.246000	37.6	Off	L1	19.6	14.3	51.9
0.318000	33.0	Off	L1	19.6	16.8	49.8
0.406000	30.4	Off	L1	19.6	17.3	47.7
0.518000	28.3	Off	L1	19.6	17.7	46.0
0.694000	30.6	Off	L1	19.6	15.4	46.0
1.782000	28.1	Off	L1	19.6	17.9	46.0



Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Adapter + MP3		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	43.7	Off	N	19.6	20.7	64.4
0.262000	39.9	Off	N	19.6	21.5	61.4
0.358000	38.7	Off	N	19.6	20.1	58.8
0.550000	39.2	Off	N	19.6	16.8	56.0
0.630000	39.7	Off	N	19.6	16.3	56.0
0.686000	38.0	Off	N	19.6	18.0	56.0
1.438000	36.7	Off	N	19.6	19.3	56.0
1.646000	38.0	Off	N	19.6	18.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	37.3	Off	N	19.6	17.1	54.4
0.262000	34.5	Off	N	19.6	16.9	51.4
0.358000	32.9	Off	N	19.6	15.9	48.8
0.550000	33.1	Off	N	19.6	12.9	46.0
0.630000	33.4	Off	N	19.6	12.6	46.0
0.686000	32.4	Off	N	19.6	13.6	46.0
1.438000	29.1	Off	N	19.6	16.9	46.0
1.646000	30.1	Off	N	19.6	15.9	46.0

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

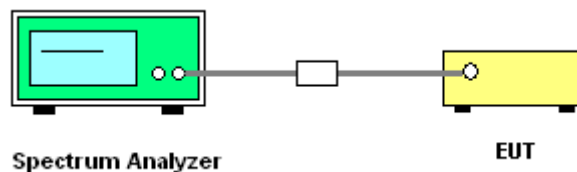
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



3.7 Automatically Discontinue Transmission

3.7.1 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.

3.7.2 Measuring Instruments

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

3.7.3 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.

3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,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.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 1 (dBi)	Ant 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	-1.00	-7.60	-1.00	-0.68	0.00	0.00
Band II	-1.00	-7.60	-1.00	-0.68	0.00	0.00
Band III	-0.10	-7.80	-0.10	-0.11	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Jul. 29, 2015	Apr. 16, 2016 ~ Apr. 29, 2016	Jul. 28, 2016	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 29, 2015	Apr. 16, 2016 ~ Apr. 29, 2016	Jul. 28, 2016	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 18, 2015	Apr. 16, 2016 ~ Apr. 29, 2016	Jun. 17, 2016	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 15, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Apr. 15, 2016	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Apr. 15, 2016	Dec. 01, 2016	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Sep. 01, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Nov. 16, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Oct. 07, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1902247	1GHz~18GHz	Jul. 01, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Jun. 30, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHZ	Sep. 24, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Sep. 23, 2016	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 19, 2016 ~ Apr. 26, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 19, 2016 ~ Apr. 26, 2016	N/A	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 02, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Nov. 01, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Apr. 19, 2016 ~ Apr. 26, 2016	Jun. 01, 2016	Radiation (03CH11-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.90
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Appendix A. Conducted Test Results

Test Engineer:	AC Chang	Temperature:	21~25	°C
Test Date:	2016/04/16 ~ 2016/04/29	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

FCC Band I														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.22	0.25	16.57	16.42		24.00	24.00	-1.00	-7.60	Pass
11a	6Mbps	1	44	5220	0.22	0.25	16.50	16.31		24.00	24.00	-1.00	-7.60	Pass
11a	6Mbps	1	48	5240	0.22	0.25	16.65	16.46		24.00	24.00	-1.00	-7.60	Pass
HT20	MCS0	1	36	5180	0.24	0.22	16.37	16.14		24.00	24.00	-1.00	-7.60	Pass
HT20	MCS0	1	44	5220	0.24	0.22	16.29	16.14		24.00	24.00	-1.00	-7.60	Pass
HT20	MCS0	1	48	5240	0.24	0.22	16.46	16.22		24.00	24.00	-1.00	-7.60	Pass
HT40	MCS0	1	38	5190	0.48	0.43	13.56	13.76		24.00	24.00	-1.00	-7.60	Pass
HT40	MCS0	1	46	5230	0.48	0.43	14.76	14.46		24.00	24.00	-1.00	-7.60	Pass
VHT20	MCS0	1	36	5180	0.46	0.42	16.33	16.22		24.00	24.00	-1.00	-7.60	Pass
VHT20	MCS0	1	44	5220	0.46	0.42	16.22	16.00		24.00	24.00	-1.00	-7.60	Pass
VHT20	MCS0	1	48	5240	0.46	0.42	16.43	16.32		24.00	24.00	-1.00	-7.60	Pass
VHT40	MCS0	1	38	5190	0.48	0.48	13.60	13.77		24.00	24.00	-1.00	-7.60	Pass
VHT40	MCS0	1	46	5230	0.48	0.48	14.82	14.70		24.00	24.00	-1.00	-7.60	Pass
VHT80	MCS0	1	42	5210	0.67	0.67	13.25	13.19		24.00	24.00	-1.00	-7.60	Pass
11a	6Mbps	2	36	5180	0.24	0.22	15.55	15.83	18.71	24.00		-1.00		Pass
11a	6Mbps	2	44	5220	0.24	0.22	15.70	15.90	18.82	24.00		-1.00		Pass
11a	6Mbps	2	48	5240	0.24	0.22	15.74	15.92	18.85	24.00		-1.00		Pass
HT20	MCS0	2	36	5180	0.22	0.22	15.62	15.72	18.68	24.00		-1.00		Pass
HT20	MCS0	2	44	5220	0.22	0.22	15.50	15.68	18.60	24.00		-1.00		Pass
HT20	MCS0	2	48	5240	0.22	0.22	15.75	15.71	18.74	24.00		-1.00		Pass
HT40	MCS0	2	38	5190	0.43	0.52	13.25	13.74	16.51	24.00		-1.00		Pass
HT40	MCS0	2	46	5230	0.43	0.52	14.02	14.20	17.12	24.00		-1.00		Pass
VHT20	MCS0	2	36	5180	0.42	0.46	15.43	15.99	18.73	24.00		-1.00		Pass
VHT20	MCS0	2	44	5220	0.42	0.46	15.54	15.75	18.66	24.00		-1.00		Pass
VHT20	MCS0	2	48	5240	0.42	0.46	15.86	16.10	18.99	24.00		-1.00		Pass
VHT40	MCS0	2	38	5190	0.43	0.43	13.05	13.52	16.30	24.00		-1.00		Pass
VHT40	MCS0	2	46	5230	0.43	0.43	14.06	13.99	17.04	24.00		-1.00		Pass
VHT80	MCS0	2	42	5210	0.67	0.67	12.64	12.97	15.82	24.00		-1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	17.20	17.05	31.50	26.90	-	-	22.36	22.32	
11a	6Mbps	1	44	5220	17.20	17.20	33.20	30.10	-	-	22.36	22.36	
11a	6Mbps	1	48	5240	17.25	17.05	31.40	29.90	-	-	22.37	22.32	
HT20	MCS0	1	36	5180	18.10	18.05	25.80	25.90	-	-	22.58	22.56	
HT20	MCS0	1	44	5220	18.15	18.05	30.20	28.60	-	-	22.59	22.56	
HT20	MCS0	1	48	5240	18.15	18.00	30.10	27.80	-	-	22.59	22.55	
HT40	MCS0	1	38	5190	36.20	36.20	42.12	45.90	-	-	23.01	23.01	
HT40	MCS0	1	46	5230	36.20	36.10	43.56	46.62	-	-	23.01	23.01	
VHT20	MCS0	1	36	5180	18.05	18.00	27.40	25.00	-	-	22.56	22.55	
VHT20	MCS0	1	44	5220	18.15	18.00	32.00	28.10	-	-	22.59	22.55	
VHT20	MCS0	1	48	5240	18.25	18.05	35.00	27.40	-	-	22.61	22.56	
VHT40	MCS0	1	38	5190	36.10	36.10	42.84	47.52	-	-	23.01	23.01	
VHT40	MCS0	1	46	5230	36.20	36.20	45.90	44.82	-	-	23.01	23.01	
VHT80	MCS0	1	42	5210	75.12	75.12	82.88	83.52	-	-	23.01	23.01	
11a	6Mbps	2	36	5180	17.20	17.15	32.60	30.70	-	-	22.34		
11a	6Mbps	2	44	5220	17.15	17.10	30.90	29.80	-	-	22.33		
11a	6Mbps	2	48	5240	17.25	17.15	31.20	30.60	-	-	22.34		
HT20	MCS0	2	36	5180	18.05	18.05	28.50	26.40	-	-	22.56		
HT20	MCS0	2	44	5220	18.25	18.20	28.70	29.70	-	-	22.60		
HT20	MCS0	2	48	5240	18.10	18.20	29.20	31.80	-	-	22.58		
HT40	MCS0	2	38	5190	36.10	36.20	41.76	51.48	-	-	23.01		
HT40	MCS0	2	46	5230	36.20	36.20	44.82	42.66	-	-	23.01		
VHT20	MCS0	2	36	5180	18.10	18.25	29.80	27.40	-	-	22.58		
VHT20	MCS0	2	44	5220	18.10	18.15	29.50	29.60	-	-	22.58		
VHT20	MCS0	2	48	5240	18.20	18.05	29.20	27.50	-	-	22.56		
VHT40	MCS0	2	38	5190	36.20	36.20	50.04	43.74	-	-	23.01		
VHT40	MCS0	2	46	5230	36.20	36.20	44.28	47.16	-	-	23.01		
VHT80	MCS0	2	42	5210	75.24	75.12	83.52	84.48	-	-	23.01		

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.22	0.25	5.63	5.62		11.00	11.00	-1.00	-7.60	Pass
11a	6Mbps	1	44	5220	0.22	0.25	5.65	5.66		11.00	11.00	-1.00	-7.60	Pass
11a	6Mbps	1	48	5240	0.22	0.25	5.97	5.80		11.00	11.00	-1.00	-7.60	Pass
HT20	MCS0	1	36	5180	0.24	0.22	5.20	5.13		11.00	11.00	-1.00	-7.60	Pass
HT20	MCS0	1	44	5220	0.24	0.22	5.37	5.34		11.00	11.00	-1.00	-7.60	Pass
HT20	MCS0	1	48	5240	0.24	0.22	5.53	5.30		11.00	11.00	-1.00	-7.60	Pass
HT40	MCS0	1	38	5190	0.48	0.43	-0.13	-0.30		11.00	11.00	-1.00	-7.60	Pass
HT40	MCS0	1	46	5230	0.48	0.43	0.70	0.93		11.00	11.00	-1.00	-7.60	Pass
VHT20	MCS0	1	36	5180	0.46	0.42	5.34	5.18		11.00	11.00	-1.00	-7.60	Pass
VHT20	MCS0	1	44	5220	0.46	0.42	5.48	5.56		11.00	11.00	-1.00	-7.60	Pass
VHT20	MCS0	1	48	5240	0.46	0.42	5.81	5.59		11.00	11.00	-1.00	-7.60	Pass
VHT40	MCS0	1	38	5190	0.48	0.48	0.03	-0.46		11.00	11.00	-1.00	-7.60	Pass
VHT40	MCS0	1	46	5230	0.48	0.48	0.68	0.76		11.00	11.00	-1.00	-7.60	Pass
VHT80	MCS0	1	42	5210	0.67	0.67	-3.54	-3.67		11.00	11.00	-1.00	-7.60	Pass
11a	6Mbps	2	36	5180	0.24	0.22			6.96	11.00		-0.68		Pass
11a	6Mbps	2	44	5220	0.24	0.22			7.45	11.00		-0.68		Pass
11a	6Mbps	2	48	5240	0.24	0.22			7.52	11.00		-0.68		Pass
HT20	MCS0	2	36	5180	0.22	0.22			7.00	11.00		-0.68		Pass
HT20	MCS0	2	44	5220	0.22	0.22			6.76	11.00		-0.68		Pass
HT20	MCS0	2	48	5240	0.22	0.22			7.11	11.00		-0.68		Pass
HT40	MCS0	2	38	5190	0.43	0.52			0.16	11.00		-0.68		Pass
HT40	MCS0	2	46	5230	0.43	0.52			2.68	11.00		-0.68		Pass
VHT20	MCS0	2	36	5180	0.42	0.46			7.31	11.00		-0.68		Pass
VHT20	MCS0	2	44	5220	0.42	0.46			6.99	11.00		-0.68		Pass
VHT20	MCS0	2	48	5240	0.42	0.46			7.17	11.00		-0.68		Pass
VHT40	MCS0	2	38	5190	0.43	0.43			0.64	11.00		-0.68		Pass
VHT40	MCS0	2	46	5230	0.43	0.43			1.93	11.00		-0.68		Pass
VHT80	MCS0	2	42	5210	0.67	0.67			-2.41	11.00		-0.68		Pass

TEST RESULTS DATA
Average Power Table

FCC Band II														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	0.22	0.25	16.79	16.47		23.98	23.98	-1.00	-7.60	Pass
11a	6Mbps	1	60	5300	0.22	0.25	16.55	16.30		23.98	23.98	-1.00	-7.60	Pass
11a	6Mbps	1	64	5320	0.22	0.25	16.45	16.22		23.98	23.98	-1.00	-7.60	Pass
HT20	MCS0	1	52	5260	0.24	0.22	16.54	16.32		23.98	23.98	-1.00	-7.60	Pass
HT20	MCS0	1	60	5300	0.24	0.22	16.26	16.03		23.98	23.98	-1.00	-7.60	Pass
HT20	MCS0	1	64	5320	0.24	0.22	16.25	15.98		23.98	23.98	-1.00	-7.60	Pass
HT40	MCS0	1	54	5270	0.48	0.43	14.90	14.50		23.98	23.98	-1.00	-7.60	Pass
HT40	MCS0	1	62	5310	0.48	0.43	14.23	14.17		23.98	23.98	-1.00	-7.60	Pass
VHT20	MCS0	1	52	5260	0.46	0.42	16.46	16.31		23.98	23.98	-1.00	-7.60	Pass
VHT20	MCS0	1	60	5300	0.46	0.42	16.16	16.11		23.98	23.98	-1.00	-7.60	Pass
VHT20	MCS0	1	64	5320	0.46	0.42	16.22	16.07		23.98	23.98	-1.00	-7.60	Pass
VHT40	MCS0	1	54	5270	0.48	0.48	14.94	14.71		23.98	23.98	-1.00	-7.60	Pass
VHT40	MCS0	1	62	5310	0.48	0.48	14.25	13.90		23.98	23.98	-1.00	-7.60	Pass
VHT80	MCS0	1	58	5290	0.67	0.67	12.52	12.21		23.98	23.98	-1.00	-7.60	Pass
11a	6Mbps	2	52	5260	0.24	0.22	16.03	15.82	18.94	23.98		-1.00		Pass
11a	6Mbps	2	60	5300	0.24	0.22	15.80	15.52	18.68	23.98		-1.00		Pass
11a	6Mbps	2	64	5320	0.24	0.22	15.80	15.49	18.66	23.98		-1.00		Pass
HT20	MCS0	2	52	5260	0.22	0.22	15.79	15.64	18.73	23.98		-1.00		Pass
HT20	MCS0	2	60	5300	0.22	0.22	15.57	15.36	18.48	23.98		-1.00		Pass
HT20	MCS0	2	64	5320	0.22	0.22	15.54	15.27	18.42	23.98		-1.00		Pass
HT40	MCS0	2	54	5270	0.43	0.52	14.38	14.06	17.23	23.98		-1.00		Pass
HT40	MCS0	2	62	5310	0.43	0.52	13.88	13.75	16.83	23.98		-1.00		Pass
VHT20	MCS0	2	52	5260	0.42	0.46	15.77	15.70	18.75	23.98		-1.00		Pass
VHT20	MCS0	2	60	5300	0.42	0.46	15.72	15.35	18.55	23.98		-1.00		Pass
VHT20	MCS0	2	64	5320	0.42	0.46	15.67	15.34	18.52	23.98		-1.00		Pass
VHT40	MCS0	2	54	5270	0.43	0.43	14.26	14.08	17.18	23.98		-1.00		Pass
VHT40	MCS0	2	62	5310	0.43	0.43	13.88	13.54	16.72	23.98		-1.00		Pass
VHT80	MCS0	2	58	5290	0.67	0.67	12.17	12.17	15.18	23.98		-1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	17.25	17.05	32.80	29.60	23.37	23.32	29.37	29.32	23.98	23.98	
11a	6Mbps	1	60	5300	17.30	17.15	31.50	30.40	23.38	23.34	29.38	29.34	23.98	23.98	
11a	6Mbps	1	64	5320	17.20	17.05	28.80	24.20	23.36	23.32	29.36	29.32	23.98	23.98	
HT20	MCS0	1	52	5260	18.20	18.00	31.20	25.60	23.60	23.55	29.60	29.55	23.98	23.98	
HT20	MCS0	1	60	5300	18.15	18.05	34.20	26.00	23.59	23.56	29.59	29.56	23.98	23.98	
HT20	MCS0	1	64	5320	18.10	18.00	27.60	22.90	23.58	23.55	29.58	29.55	23.98	23.98	
HT40	MCS0	1	54	5270	36.20	36.20	49.86	43.38	23.98	23.98	30.00	30.00	23.98	23.98	
HT40	MCS0	1	62	5310	36.30	36.10	44.46	42.48	23.98	23.98	30.00	30.00	23.98	23.98	
VHT20	MCS0	1	52	5260	18.15	18.10	33.80	26.40	23.59	23.58	29.59	29.58	23.98	23.98	
VHT20	MCS0	1	60	5300	18.20	18.05	30.80	27.50	23.60	23.56	29.60	29.56	23.98	23.98	
VHT20	MCS0	1	64	5320	18.00	17.95	25.80	22.80	23.55	23.54	29.55	29.54	23.98	23.98	
VHT40	MCS0	1	54	5270	36.20	36.20	45.36	42.48	23.98	23.98	30.00	30.00	23.98	23.98	
VHT40	MCS0	1	62	5310	36.20	36.10	45.90	45.36	23.98	23.98	30.00	30.00	23.98	23.98	
VHT80	MCS0	1	58	5290	75.12	74.76	82.24	81.60	23.98	23.98	30.00	30.00	23.98	23.98	
11a	6Mbps	2	52	5260	17.20	17.15	31.10	29.70	23.34		29.34		23.98		
11a	6Mbps	2	60	5300	17.25	17.30	32.50	31.70	23.37		29.37		23.98		
11a	6Mbps	2	64	5320	17.20	17.10	29.00	26.30	23.33		29.33		23.98		
HT20	MCS0	2	52	5260	18.10	18.00	29.70	24.80	23.55		29.55		23.98		
HT20	MCS0	2	60	5300	18.25	18.10	33.30	28.20	23.58		29.58		23.98		
HT20	MCS0	2	64	5320	18.15	17.95	28.90	22.70	23.54		29.54		23.98		
HT40	MCS0	2	54	5270	36.30	36.20	45.90	45.00	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.30	36.20	49.68	47.52	23.98		30.00		23.98		
VHT20	MCS0	2	52	5260	18.15	18.05	34.00	24.60	23.56		29.56		23.98		
VHT20	MCS0	2	60	5300	18.15	18.00	33.70	24.80	23.55		29.55		23.98		
VHT20	MCS0	2	64	5320	18.15	18.00	29.40	25.50	23.55		29.55		23.98		
VHT40	MCS0	2	54	5270	36.20	36.20	42.66	48.42	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.20	36.10	49.14	44.64	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.12	75.00	81.60	84.80	23.98		30.00		23.98		

TEST RESULTS DATA
Power Spectral Density

Band II														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	0.22	0.25	6.00	5.86		11.00	11.00	-1.00	-7.60	Pass
11a	6Mbps	1	60	5300	0.22	0.25	5.79	5.65		11.00	11.00	-1.00	-7.60	Pass
11a	6Mbps	1	64	5320	0.22	0.25	5.64	5.50		11.00	11.00	-1.00	-7.60	Pass
HT20	MCS0	1	52	5260	0.24	0.22	5.78	5.48		11.00	11.00	-1.00	-7.60	Pass
HT20	MCS0	1	60	5300	0.24	0.22	5.42	5.25		11.00	11.00	-1.00	-7.60	Pass
HT20	MCS0	1	64	5320	0.24	0.22	5.46	5.17		11.00	11.00	-1.00	-7.60	Pass
HT40	MCS0	1	54	5270	0.48	0.43	1.13	0.65		11.00	11.00	-1.00	-7.60	Pass
HT40	MCS0	1	62	5310	0.48	0.43	0.24	-0.04		11.00	11.00	-1.00	-7.60	Pass
VHT20	MCS0	1	52	5260	0.46	0.42	6.01	5.54		11.00	11.00	-1.00	-7.60	Pass
VHT20	MCS0	1	60	5300	0.46	0.42	5.57	5.46		11.00	11.00	-1.00	-7.60	Pass
VHT20	MCS0	1	64	5320	0.46	0.42	5.79	5.22		11.00	11.00	-1.00	-7.60	Pass
VHT40	MCS0	1	54	5270	0.48	0.48	0.97	0.70		11.00	11.00	-1.00	-7.60	Pass
VHT40	MCS0	1	62	5310	0.48	0.48	0.30	-0.02		11.00	11.00	-1.00	-7.60	Pass
VHT80	MCS0	1	58	5290	0.67	0.67	-4.48	-4.57		11.00	11.00	-1.00	-7.60	Pass
11a	6Mbps	2	52	5260	0.24	0.22			7.80	11.00		-0.68		Pass
11a	6Mbps	2	60	5300	0.24	0.22			6.93	11.00		-0.68		Pass
11a	6Mbps	2	64	5320	0.24	0.22			7.01	11.00		-0.68		Pass
HT20	MCS0	2	52	5260	0.22	0.22			6.72	11.00		-0.68		Pass
HT20	MCS0	2	60	5300	0.22	0.22			6.58	11.00		-0.68		Pass
HT20	MCS0	2	64	5320	0.22	0.22			7.22	11.00		-0.68		Pass
HT40	MCS0	2	54	5270	0.43	0.52			1.48	11.00		-0.68		Pass
HT40	MCS0	2	62	5310	0.43	0.52			1.58	11.00		-0.68		Pass
VHT20	MCS0	2	52	5260	0.42	0.46			7.68	11.00		-0.68		Pass
VHT20	MCS0	2	60	5300	0.42	0.46			6.80	11.00		-0.68		Pass
VHT20	MCS0	2	64	5320	0.42	0.46			7.38	11.00		-0.68		Pass
VHT40	MCS0	2	54	5270	0.43	0.43			1.60	11.00		-0.68		Pass
VHT40	MCS0	2	62	5310	0.43	0.43			0.74	11.00		-0.68		Pass
VHT80	MCS0	2	58	5290	0.67	0.67			-2.65	11.00		-0.68		Pass

TEST RESULTS DATA
Average Power Table

FCC Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	0.22	0.25	16.77	16.64		23.98	23.98	-0.10	-7.80	Pass
11a	6Mbps	1	116	5580	0.22	0.25	16.74	16.59		23.98	23.98	-0.10	-7.80	Pass
11a	6Mbps	1	140	5700	0.22	0.25	15.97	15.62		23.98	23.98	-0.10	-7.80	Pass
HT20	MCS0	1	100	5500	0.24	0.22	16.56	16.38		23.98	23.98	-0.10	-7.80	Pass
HT20	MCS0	1	116	5580	0.24	0.22	16.62	16.39		23.98	23.98	-0.10	-7.80	Pass
HT20	MCS0	1	140	5700	0.24	0.22	15.95	15.40		23.98	23.98	-0.10	-7.80	Pass
HT40	MCS0	1	102	5510	0.48	0.43	14.00	13.59		23.98	23.98	-0.10	-7.80	Pass
HT40	MCS0	1	110	5550	0.48	0.43	14.70	14.73		23.98	23.98	-0.10	-7.80	Pass
HT40	MCS0	1	134	5670	0.48	0.43	14.66	14.09		23.98	23.98	-0.10	-7.80	Pass
VHT20	MCS0	1	100	5500	0.46	0.42	16.59	16.40		23.98	23.98	-0.10	-7.80	Pass
VHT20	MCS0	1	116	5580	0.46	0.42	16.46	16.35		23.98	23.98	-0.10	-7.80	Pass
VHT20	MCS0	1	140	5700	0.46	0.42	15.87	15.76		23.98	23.98	-0.10	-7.80	Pass
VHT40	MCS0	1	102	5510	0.48	0.48	13.98	13.68		23.98	23.98	-0.10	-7.80	Pass
VHT40	MCS0	1	110	5550	0.48	0.48	14.74	14.77		23.98	23.98	-0.10	-7.80	Pass
VHT40	MCS0	1	134	5670	0.48	0.48	14.56	14.27		23.98	23.98	-0.10	-7.80	Pass
VHT80	MCS0	1	106	5530	0.67	0.67	9.34	9.63		23.98	23.98	-0.10	-7.80	Pass
VHT80	MCS0	1	122	5610	0.67	0.67	14.65	14.52		23.98	23.98	-0.10	-7.80	Pass
11a	6Mbps	2	100	5500	0.24	0.22	16.23	16.03	19.15	23.98		-0.10		Pass
11a	6Mbps	2	116	5580	0.24	0.22	16.21	15.91	19.08	23.98		-0.10		Pass
11a	6Mbps	2	140	5700	0.24	0.22	15.43	15.34	18.40	23.98		-0.10		Pass
HT20	MCS0	2	100	5500	0.22	0.22	16.13	15.84	19.00	23.98		-0.10		Pass
HT20	MCS0	2	116	5580	0.22	0.22	15.98	15.67	18.84	23.98		-0.10		Pass
HT20	MCS0	2	140	5700	0.22	0.22	15.11	15.23	18.18	23.98		-0.10		Pass
HT40	MCS0	2	102	5510	0.43	0.52	13.59	13.67	16.64	23.98		-0.10		Pass
HT40	MCS0	2	110	5550	0.43	0.52	14.02	14.13	17.09	23.98		-0.10		Pass
HT40	MCS0	2	134	5670	0.43	0.52	13.99	13.90	16.96	23.98		-0.10		Pass
VHT20	MCS0	2	100	5500	0.42	0.46	16.14	15.77	18.97	23.98		-0.10		Pass
VHT20	MCS0	2	116	5580	0.42	0.46	15.99	15.68	18.85	23.98		-0.10		Pass
VHT20	MCS0	2	140	5700	0.42	0.46	15.25	15.21	18.24	23.98		-0.10		Pass
VHT40	MCS0	2	102	5510	0.43	0.43	13.62	13.62	16.63	23.98		-0.10		Pass
VHT40	MCS0	2	110	5550	0.43	0.43	14.11	13.99	17.06	23.98		-0.10		Pass
VHT40	MCS0	2	134	5670	0.43	0.43	13.93	13.73	16.84	23.98		-0.10		Pass
VHT80	MCS0	2	106	5530	0.67	0.67	9.16	9.54	12.36	23.98		-0.10		Pass
VHT80	MCS0	2	122	5610	0.67	0.67	14.49	13.88	17.21	23.98		-0.10		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III															
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	17.25	17.15	31.30	31.20	23.37	23.34	29.37	29.34	23.98	23.98	
11a	6Mbps	1	116	5580	17.75	17.25	34.00	32.30	23.49	23.37	29.49	29.37	23.98	23.98	
11a	6Mbps	1	140	5700	17.25	17.05	31.60	27.40	23.37	23.32	29.37	29.32	23.98	23.98	
HT20	MCS0	1	100	5500	18.20	18.15	32.50	31.30	23.60	23.59	29.60	29.59	23.98	23.98	
HT20	MCS0	1	116	5580	18.45	18.20	31.60	31.70	23.66	23.60	29.66	29.60	23.98	23.98	
HT20	MCS0	1	140	5700	18.15	18.00	26.70	24.10	23.59	23.55	29.59	29.55	23.98	23.98	
HT40	MCS0	1	102	5510	36.10	36.10	44.64	44.64	23.98	23.98	30.00	30.00	23.98	23.98	
HT40	MCS0	1	110	5550	36.40	36.20	45.18	43.02	23.98	23.98	30.00	30.00	23.98	23.98	
HT40	MCS0	1	134	5670	36.30	36.10	48.96	49.32	23.98	23.98	30.00	30.00	23.98	23.98	
VHT20	MCS0	1	100	5500	18.25	18.05	32.40	24.90	23.61	23.56	29.61	29.56	23.98	23.98	
VHT20	MCS0	1	116	5580	18.35	18.15	32.90	28.40	23.64	23.59	29.64	29.59	23.98	23.98	
VHT20	MCS0	1	140	5700	18.15	18.00	29.10	26.10	23.59	23.55	29.59	29.55	23.98	23.98	
VHT40	MCS0	1	102	5510	36.30	36.10	46.44	44.82	23.98	23.98	30.00	30.00	23.98	23.98	
VHT40	MCS0	1	110	5550	36.30	36.00	50.04	45.54	23.98	23.98	30.00	30.00	23.98	23.98	
VHT40	MCS0	1	134	5670	36.30	36.10	45.54	46.98	23.98	23.98	30.00	30.00	23.98	23.98	
VHT80	MCS0	1	106	5530	75.36	75.00	82.88	80.96	23.98	23.98	30.00	30.00	23.98	23.98	
VHT80	MCS0	1	122	5610	75.60	75.36	90.88	88.64	23.98	23.98	30.00	30.00	23.98	23.98	
11a	6Mbps	2	100	5500	17.70	17.35	33.80	32.80	23.39		29.39		23.98		
11a	6Mbps	2	116	5580	17.65	17.25	33.80	32.00	23.37		29.37		23.98		
11a	6Mbps	2	140	5700	17.35	17.10	32.10	28.90	23.33		29.33		23.98		
HT20	MCS0	2	100	5500	18.35	18.25	35.00	32.60	23.61		29.61		23.98		
HT20	MCS0	2	116	5580	18.45	18.15	34.80	25.30	23.59		29.59		23.98		
HT20	MCS0	2	140	5700	18.30	18.15	31.10	30.40	23.59		29.59		23.98		
HT40	MCS0	2	102	5510	36.10	36.20	45.90	49.50	23.98		30.00		23.98		
HT40	MCS0	2	110	5550	36.30	36.10	46.62	46.26	23.98		30.00		23.98		
HT40	MCS0	2	134	5670	36.40	36.40	51.48	49.32	23.98		30.00		23.98		
VHT20	MCS0	2	100	5500	18.50	18.20	35.00	30.90	23.60		29.60		23.98		
VHT20	MCS0	2	116	5580	18.35	18.65	34.90	33.20	23.64		29.64		23.98		
VHT20	MCS0	2	140	5700	18.30	18.05	31.60	24.70	23.56		29.56		23.98		
VHT40	MCS0	2	102	5510	36.20	36.20	45.18	44.10	23.98		30.00		23.98		
VHT40	MCS0	2	110	5550	36.30	36.10	43.38	47.52	23.98		30.00		23.98		
VHT40	MCS0	2	134	5670	36.30	36.20	45.18	56.88	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.24	75.00	81.60	80.32	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	75.48	75.36	91.20	85.12	23.98		30.00		23.98		

TEST RESULTS DATA
Power Spectral Density

Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	0.22	0.25	5.85	5.77		11.00	11.00	-0.10	-7.80	Pass
11a	6Mbps	1	116	5580	0.22	0.25	6.36	6.32		11.00	11.00	-0.10	-7.80	Pass
11a	6Mbps	1	140	5700	0.22	0.25	5.60	5.65		11.00	11.00	-0.10	-7.80	Pass
HT20	MCS0	1	100	5500	0.24	0.22	5.59	5.46		11.00	11.00	-0.10	-7.80	Pass
HT20	MCS0	1	116	5580	0.24	0.22	6.05	5.93		11.00	11.00	-0.10	-7.80	Pass
HT20	MCS0	1	140	5700	0.24	0.22	5.21	5.32		11.00	11.00	-0.10	-7.80	Pass
HT40	MCS0	1	102	5510	0.48	0.43	0.18	-0.15		11.00	11.00	-0.10	-7.80	Pass
HT40	MCS0	1	110	5550	0.48	0.43	1.06	0.82		11.00	11.00	-0.10	-7.80	Pass
HT40	MCS0	1	134	5670	0.48	0.43	1.28	0.82		11.00	11.00	-0.10	-7.80	Pass
VHT20	MCS0	1	100	5500	0.46	0.42	5.75	5.46		11.00	11.00	-0.10	-7.80	Pass
VHT20	MCS0	1	116	5580	0.46	0.42	6.37	6.12		11.00	11.00	-0.10	-7.80	Pass
VHT20	MCS0	1	140	5700	0.46	0.42	5.37	5.10		11.00	11.00	-0.10	-7.80	Pass
VHT40	MCS0	1	102	5510	0.48	0.48	0.15	-0.13		11.00	11.00	-0.10	-7.80	Pass
VHT40	MCS0	1	110	5550	0.48	0.48	0.98	0.73		11.00	11.00	-0.10	-7.80	Pass
VHT40	MCS0	1	134	5670	0.48	0.48	1.13	0.80		11.00	11.00	-0.10	-7.80	Pass
VHT80	MCS0	1	106	5530	0.67	0.67	-7.82	-7.27		11.00	11.00	-0.10	-7.80	Pass
VHT80	MCS0	1	122	5610	0.67	0.67	-2.09	-2.00		11.00	11.00	-0.10	-7.80	Pass
11a	6Mbps	2	100	5500	0.24	0.22			7.88	11.00		-0.11		Pass
11a	6Mbps	2	116	5580	0.24	0.22			8.10	11.00		-0.11		Pass
11a	6Mbps	2	140	5700	0.24	0.22			6.60	11.00		-0.11		Pass
HT20	MCS0	2	100	5500	0.22	0.22			7.27	11.00		-0.11		Pass
HT20	MCS0	2	116	5580	0.22	0.22			8.16	11.00		-0.11		Pass
HT20	MCS0	2	140	5700	0.22	0.22			6.84	11.00		-0.11		Pass
HT40	MCS0	2	102	5510	0.43	0.52			0.66	11.00		-0.11		Pass
HT40	MCS0	2	110	5550	0.43	0.52			1.23	11.00		-0.11		Pass
HT40	MCS0	2	134	5670	0.43	0.52			1.91	11.00		-0.11		Pass
VHT20	MCS0	2	100	5500	0.42	0.46			6.79	11.00		-0.11		Pass
VHT20	MCS0	2	116	5580	0.42	0.46			8.10	11.00		-0.11		Pass
VHT20	MCS0	2	140	5700	0.42	0.46			6.72	11.00		-0.11		Pass
VHT40	MCS0	2	102	5510	0.43	0.43			0.81	11.00		-0.11		Pass
VHT40	MCS0	2	110	5550	0.43	0.43			1.99	11.00		-0.11		Pass
VHT40	MCS0	2	134	5670	0.43	0.43			1.49	11.00		-0.11		Pass
VHT80	MCS0	2	106	5530	0.67	0.67			-8.04	11.00		-0.11		Pass
VHT80	MCS0	2	122	5610	0.67	0.67			-1.47	11.00		-0.11		Pass

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		Emission Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	144	5720	17.15	17.05	21.80	23.48	-	-	-	-	-	-	
				NII-2C	13.50	13.50	19.20	20.90	22.30	22.30	28.30	28.30	23.83	23.98	
				NII-3	3.65	3.55	2.60	2.58	22.62	22.50	28.62	28.50	-	-	
HT20	MCS0	1	144	5720	18.15	18.00	19.08	18.78	-	-	-	-	-	-	
				NII-2C	14.05	14.00	16.50	16.20	22.48	22.46	28.48	28.46	23.17	23.10	
				NII-3	4.10	4.00	2.58	2.58	23.13	23.02	29.13	29.02	-	-	
HT40	MCS0	1	142	5710	36.30	36.10	41.18	41.86	-	-	-	-	-	-	
				NII-2C	33.20	33.10	38.58	39.30	23.98	23.98	30.00	30.00	23.98	23.98	
				NII-3	3.10	3.00	2.60	2.56	21.91	21.77	27.91	27.77	-	-	
VHT20	MCS0	1	144	5720	18.10	18.00	19.78	22.78	-	-	-	-	-	-	
				NII-2C	14.00	14.00	17.20	20.20	22.46	22.46	28.46	28.46	23.36	23.98	
				NII-3	4.10	4.00	2.58	2.58	23.13	23.02	29.13	29.02	-	-	
VHT40	MCS0	1	142	5710	36.30	36.20	41.36	42.98	-	-	-	-	-	-	
				NII-2C	33.20	33.20	38.76	40.38	23.98	23.98	30.00	30.00	23.98	23.98	
				NII-3	3.10	3.00	2.60	2.60	21.91	21.77	27.91	27.77	-	-	
VHT80	MCS0	1	138	5690	75.48	75.36	81.68	79.52	-	-	-	-	-	-	
				NII-2C	72.92	72.80	79.16	76.92	23.98	23.98	30.00	30.00	23.98	23.98	
				NII-3	2.56	2.56	2.52	2.60	21.08	21.08	27.08	27.08	-	-	
11a	6Mbps	2	144	5720	17.20	17.05	20.14	20.02	-	-	-	-	-	-	
				NII-2C	13.6	13.55	17.5	17.4	22.32	22.32	28.32	28.32	23.41	23.41	
				NII-3	3.6	3.5	2.64	2.62	22.44	22.44	28.44	28.44	15.18	15.18	
HT20	MCS0	2	144	5720	18.15	18.00	22.14	18.70	-	-	-	-	-	-	
				NII-2C	14.05	14	19.5	16.1	22.46	22.46	28.46	28.46	23.07	23.07	
				NII-3	4.1	4	2.64	2.6	23.02	23.02	29.02	29.02	15.15	15.15	
HT40	MCS0	2	142	5710	36.30	36.20	44.42	46.58	-	-	-	-	-	-	
				NII-2C	33.2	33.1	41.82	43.98	23.98	23.98	30.00	30.00	23.98	23.98	
				NII-3	3.1	3.1	2.6	2.6	21.91	21.91	27.91	27.91	15.15	15.15	
VHT20	MCS0	2	144	5720	18.25	18.00	21.04	18.82	-	-	-	-	-	-	
				NII-2C	14.05	14	18.4	16.2	22.46	22.46	28.46	28.46	23.10	23.10	
				NII-3	4.2	4	2.64	2.62	23.02	23.02	29.02	29.02	15.18	15.18	
VHT40	MCS0	2	142	5710	36.30	36.30	41.18	40.64	-	-	-	-	-	-	
				NII-2C	33.2	33.3	38.58	38.04	23.98	23.98	30.00	30.00	23.98	23.98	
				NII-3	3.1	3	2.6	2.6	21.77	21.77	27.77	27.77	15.15	15.15	
VHT80	MCS0	2	138	5690	75.36	75.36	93.92	78.56	-	-	-	-	-	-	
				NII-2C	72.8	72.8	91.32	75.96	23.98	23.98	30.00	30.00	23.98	23.98	
				NII-3	2.56	2.56	2.6	2.6	21.08	21.08	27.08	27.08	15.15	15.15	

TEST RESULTS DATA
Average Power Table

FCC Straddle Channel														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	144	5720	0.22	0.25	14.97	14.64		-	-	-0.10	-7.80	-
				NII-2C	0.22	0.25	14.27	13.95		23.83	23.98	-0.10	-7.80	Pass
				NII-3	0.22	0.25	6.72	6.30		-	-	-0.10	-7.80	Pass
HT20	MCS0	1	144	5720	0.24	0.22	14.72	14.29		-	-	-0.10	-7.80	-
				NII-2C	0.24	0.22	13.97	13.53		23.17	23.10	-0.10	-7.80	Pass
				NII-3	0.24	0.22	6.75	6.32		-	-	-0.10	-7.80	Pass
HT40	MCS0	1	142	5710	0.48	0.43	12.82	12.34		-	-	-0.10	-7.80	-
				NII-2C	0.48	0.43	12.60	12.12		23.98	23.98	-0.10	-7.80	Pass
				NII-3	0.48	0.43	-0.25	-0.72		-	-	-0.10	-7.80	Pass
VHT20	MCS0	1	144	5720	0.46	0.42	14.42	14.36		-	-	-0.10	-7.80	-
				NII-2C	0.46	0.42	13.66	13.61		23.36	23.98	-0.10	-7.80	Pass
				NII-3	0.46	0.42	6.48	6.34		-	-	-0.10	-7.80	Pass
VHT40	MCS0	1	142	5710	0.48	0.48	12.70	12.62		-	-	-0.10	-7.80	-
				NII-2C	0.48	0.48	12.48	12.41		23.98	23.98	-0.10	-7.80	Pass
				NII-3	0.48	0.48	-0.41	-0.62		-	-	-0.10	-7.80	Pass
VHT80	MCS0	1	138	5690	0.67	0.67	13.68	13.27		-	-	-0.10	-7.80	-
				NII-2C	0.67	0.67	13.61	13.20		23.98	23.98	-0.10	-7.80	Pass
				NII-3	0.67	0.67	-4.18	-4.93		-	-	-0.10	-7.80	Pass
11a	6Mbps	2	144	5720	0.24	0.22	13.94	14.04	17.00	-	-	-0.10	-	-
				NII-2C	0.24	0.22	13.22	13.31	16.28	23.41	-	-0.10	-	Pass
				NII-3	0.24	0.22	5.75	5.91	8.84	15.18	-	-0.10	-	Pass
HT20	MCS0	2	144	5720	0.22	0.22	14.15	13.83	17.00	-	-	-0.10	-	-
				NII-2C	0.22	0.22	13.40	13.07	16.25	23.07	-	-0.10	-	Pass
				NII-3	0.22	0.22	6.17	5.88	9.04	15.15	-	-0.10	-	Pass
HT40	MCS0	2	142	5710	0.43	0.52	12.44	12.17	15.32	-	-	-0.10	-	-
				NII-2C	0.43	0.52	12.22	11.94	15.09	23.98	-	-0.10	-	Pass
				NII-3	0.43	0.52	-0.59	-0.73	2.35	15.15	-	-0.10	-	Pass
VHT20	MCS0	2	144	5720	0.42	0.46	14.13	13.67	16.92	-	-	-0.10	-	-
				NII-2C	0.42	0.46	13.39	12.88	16.15	23.10	-	-0.10	-	Pass
				NII-3	0.42	0.46	6.10	5.88	9.00	15.18	-	-0.10	-	Pass
VHT40	MCS0	2	142	5710	0.43	0.43	12.50	12.15	15.34	-	-	-0.10	-	-
				NII-2C	0.43	0.43	12.28	11.93	15.12	23.98	-	-0.10	-	Pass
				NII-3	0.43	0.43	-0.61	-0.97	2.22	15.15	-	-0.10	-	Pass
VHT80	MCS0	2	138	5690	0.67	0.67	13.24	12.78	16.03	-	-	-0.10	-	-
				NII-2C	0.67	0.67	13.17	12.71	15.96	23.98	-	-0.10	-	Pass
				NII-3	0.67	0.67	-4.69	-5.09	-1.88	15.15	-	-0.10	-	Pass

TEST RESULTS DATA
Power Spectral Density

Straddle Channel																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail	
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
11a	6Mbps	1	144	NII-2C	0.22	0.25	5.69	4.91		11.00	11.00	-0.10	-7.80		Pass	
				NII-3	0.22	0.25	5.69	4.91		30.00	30.00	-0.10	-7.80		Pass	
HT20	MCS0	1	144	NII-2C	0.24	0.22	5.35	4.97		11.00	11.00	-0.10	-7.80		Pass	
				NII-3	0.24	0.22	5.35	4.97		30.00	30.00	-0.10	-7.80		Pass	
HT40	MCS0	1	142	NII-2C	0.48	0.43	-0.24	0.45		11.00	11.00	-0.10	-7.80		Pass	
				NII-3	0.48	0.43	-0.24	0.45		30.00	30.00	-0.10	-7.80		Pass	
VHT20	MCS0	1	144	NII-2C	0.46	0.42	5.45	4.69		11.00	11.00	-0.10	-7.80		Pass	
				NII-3	0.46	0.42	5.45	4.69		30.00	30.00	-0.10	-7.80		Pass	
VHT40	MCS0	1	142	NII-2C	0.48	0.48	0.50	0.61		11.00	11.00	-0.10	-7.80		Pass	
				NII-3	0.48	0.48	0.50	0.61		30.00	30.00	-0.10	-7.80		Pass	
VHT80	MCS0	1	138	NII-2C	0.67	0.67	-2.70	-2.64		11.00	11.00	-0.10	-7.80		Pass	
				NII-3	0.67	0.67	-2.70	-2.64		30.00	30.00	-0.10	-7.80		Pass	
11a	6Mbps	2	144	NII-2C	0.24	0.22				7.48	11.00		-0.11			Pass
				NII-3	0.24	0.22				7.48	30.00		-0.11			Pass
HT20	MCS0	2	144	NII-2C	0.22	0.22				6.89	11.00		-0.11			Pass
				NII-3	0.22	0.22				6.89	30.00		-0.11			Pass
HT40	MCS0	2	142	NII-2C	0.43	0.52			1.64	11.00		-0.11			Pass	
				NII-3	0.43	0.52			1.64	30.00		-0.11			Pass	
VHT20	MCS0	2	144	NII-2C	0.42	0.46			6.98	11.00		-0.11			Pass	
				NII-3	0.42	0.46			6.98	30.00		-0.11			Pass	
VHT40	MCS0	2	142	NII-2C	0.43	0.43			1.19	11.00		-0.11			Pass	
				NII-3	0.43	0.43			1.19	30.00		-0.11			Pass	
VHT80	MCS0	2	138	NII-2C	0.67	0.67			-1.67	11.00		-0.11			Pass	
				NII-3	0.67	0.67			-1.67	30.00		-0.11			Pass	

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	3.4	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	4.35	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	3.8	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	-30	3.8	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	50	3.8	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	3.4	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	4.35	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	3.8	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	-30	3.8	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	50	3.8	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5499.700	-0.300	-54.55	20	3.4	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	4.35	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	3.8	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	-30	3.8	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	50	3.8	



Appendix B. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Bill Chang, and Ken Wu	Temperature :	19~21°C
		Relative Humidity :	50~55%

Band 1 - 5150~5250MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.25	53.72	-20.28	74	45.38	31.58	10.23	33.47	100	118	P	H
		5149.85	45.38	-8.62	54	37.04	31.58	10.23	33.47	100	118	A	H
	*	5180	103.47	-	-	95.09	31.62	10.23	33.47	100	118	P	H
	*	5180	96.11	-	-	87.73	31.62	10.23	33.47	100	118	A	H
													H
													H
		5149.1	51.76	-22.24	74	43.42	31.58	10.23	33.47	198	166	P	V
		5150	43.95	-10.05	54	35.61	31.58	10.23	33.47	198	166	A	V
	*	5180	101.52	-	-	93.14	31.62	10.23	33.47	198	166	P	V
	*	5180	94.1	-	-	85.72	31.62	10.23	33.47	198	166	A	V
													V
													V
802.11a CH 44 5220MHz		5034.5	48.41	-25.59	74	40.24	31.44	10.2	33.47	217	117	P	H
		5120	39.65	-14.35	54	31.36	31.54	10.22	33.47	217	117	A	H
	*	5220	104.81	-	-	96.38	31.66	10.24	33.47	217	117	P	H
	*	5220	96.62	-	-	88.19	31.66	10.24	33.47	217	117	A	H
		5391.14	47.83	-26.17	74	38.58	31.86	10.87	33.48	217	117	P	H
		5459.01	39.33	-14.67	54	30.03	31.94	10.84	33.48	217	117	A	H
		5052.5	49.28	-24.72	74	41.09	31.46	10.2	33.47	191	157	P	V
		5087.6	39.69	-14.31	54	31.45	31.5	10.21	33.47	191	157	A	V
	*	5220	101.54	-	-	93.11	31.66	10.24	33.47	191	157	P	V
	*	5220	93.96	-	-	85.53	31.66	10.24	33.47	191	157	A	V
		5405.22	48.13	-25.87	74	38.86	31.88	10.87	33.48	191	157	P	V
		5458.35	39.19	-14.81	54	29.89	31.94	10.84	33.48	191	157	A	V



802.11a CH 48 5240MHz		5010.8	49.7	-24.3	74	41.56	31.42	10.19	33.47	100	118	P	H
		5114.15	39.8	-14.2	54	31.51	31.54	10.22	33.47	100	118	A	H
	*	5240	104.74	-	-	96.16	31.68	10.37	33.47	100	118	P	H
	*	5240	97.12	-	-	88.54	31.68	10.37	33.47	100	118	A	H
		5439.32	47.85	-26.15	74	38.57	31.92	10.84	33.48	100	118	P	H
		5458.02	39.16	-14.84	54	29.86	31.94	10.84	33.48	100	118	A	H
		5073.95	49.53	-24.47	74	41.29	31.5	10.21	33.47	155	158	P	V
		5084.15	39.7	-14.3	54	31.46	31.5	10.21	33.47	155	158	A	V
	*	5240	101.76	-	-	93.18	31.68	10.37	33.47	155	158	P	V
	*	5240	93.92	-	-	85.34	31.68	10.37	33.47	155	158	A	V
		5449.44	48.09	-25.91	74	38.79	31.94	10.84	33.48	155	158	P	V
		5451.86	39.45	-14.55	54	30.15	31.94	10.84	33.48	155	158	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	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 CH 36 5180MHz		10360	49.48	-24.52	74	62.33	39.79	14.86	67.5	100	0	P	H
		15540	43.07	-30.93	74	51.97	38.6	17.89	65.39	100	0	P	H
													H
													H
		10360	56.53	-17.47	74	69.38	39.79	14.86	67.5	112	377	P	V
		10360	44.82	-9.18	54	57.67	39.79	14.86	67.5	112	377	A	V
		15540	45.48	-28.52	74	54.38	38.6	17.89	65.39	100	0	P	V
													V
802.11a CH 44 5220MHz		10440	49.36	-24.64	74	62.06	39.89	14.91	67.5	100	0	P	H
		15660	43.55	-30.45	74	52.75	38.23	17.94	65.37	100	0	P	H
													H
													H
		10440	49.75	-24.25	74	62.45	39.89	14.91	67.5	100	0	P	V
		15660	47.39	-26.61	74	56.59	38.23	17.94	65.37	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	48.8	-25.2	74	61.39	39.97	14.94	67.5	100	0	P	H
		15720	44.12	-29.88	74	53.48	38.03	17.97	65.36	100	0	P	H
													H
													H
		10480	49.69	-24.31	74	62.28	39.97	14.94	67.5	100	0	P	V
		15720	39.37	-34.63	74	48.73	38.03	17.97	65.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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 36 5180MHz		5147.75	52.43	-21.57	74	44.09	31.58	10.23	33.47	394	118	P	H
		5150	45.8	-8.2	54	37.46	31.58	10.23	33.47	394	118	A	H
	*	5180	103.27	-	-	94.89	31.62	10.23	33.47	394	118	P	H
	*	5180	95.93	-	-	87.55	31.62	10.23	33.47	394	118	A	H
													H
													H
		5142.65	57.2	-16.8	74	48.86	31.58	10.23	33.47	198	166	P	V
		5149.85	43.54	-10.46	54	35.2	31.58	10.23	33.47	198	166	A	V
	*	5180	101.3	-	-	92.92	31.62	10.23	33.47	198	166	P	V
	*	5180	93.97	-	-	85.59	31.62	10.23	33.47	198	166	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5136.8	49.08	-24.92	74	40.77	31.56	10.22	33.47	217	117	P	H
		5095.55	39.76	-14.24	54	31.5	31.52	10.21	33.47	217	117	A	H
	*	5220	104.95	-	-	96.52	31.66	10.24	33.47	217	117	P	H
	*	5220	96.92	-	-	88.49	31.66	10.24	33.47	217	117	A	H
		5444.6	48.02	-25.98	74	38.74	31.92	10.84	33.48	217	117	P	H
		5451.2	39.3	-14.7	54	30	31.94	10.84	33.48	217	117	A	H
		5076.65	48.52	-25.48	74	40.28	31.5	10.21	33.47	190	157	P	V
		5085.05	39.78	-14.22	54	31.54	31.5	10.21	33.47	190	157	A	V
	*	5220	100.97	-	-	92.54	31.66	10.24	33.47	190	157	P	V
	*	5220	93.83	-	-	85.4	31.66	10.24	33.47	190	157	A	V
		5440.53	47.35	-26.65	74	38.07	31.92	10.84	33.48	190	157	P	V
		5384.32	39.14	-14.86	54	29.89	31.86	10.87	33.48	190	157	A	V



802.11n HT20 CH 48 5240MHz		5096.75	48.16	-25.84	74	39.9	31.52	10.21	33.47	100	118	P	H
		5086.25	39.87	-14.13	54	31.63	31.5	10.21	33.47	100	118	A	H
	*	5240	104.99	-	-	96.41	31.68	10.37	33.47	100	118	P	H
	*	5240	96.78	-	-	88.2	31.68	10.37	33.47	100	118	A	H
		5360.34	47.92	-26.08	74	38.83	31.82	10.75	33.48	100	118	P	H
		5459.01	39.25	-14.75	54	29.95	31.94	10.84	33.48	100	118	A	H
		5083.4	48.56	-25.44	74	40.32	31.5	10.21	33.47	155	158	P	V
		5086.1	39.69	-14.31	54	31.45	31.5	10.21	33.47	155	158	A	V
	*	5240	101.88	-	-	93.3	31.68	10.37	33.47	155	158	P	V
	*	5240	93.57	-	-	84.99	31.68	10.37	33.47	155	158	A	V
		5444.16	48.18	-25.82	74	38.9	31.92	10.84	33.48	155	158	P	V
		5458.24	39.36	-14.64	54	30.06	31.94	10.84	33.48	155	158	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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 36 5180MHz		10360	49.4	-24.6	74	62.25	39.79	14.86	67.5	100	0	P	H
		15540	47.58	-26.42	74	56.48	38.6	17.89	65.39	100	0	P	H
													H
													H
		10360	47.21	-26.79	74	60.06	39.79	14.86	67.5	100	0	P	V
		15540	44.42	-29.58	74	53.32	38.6	17.89	65.39	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	49.04	-24.96	74	61.74	39.89	14.91	67.5	100	0	P	H
		15660	48.43	-25.57	74	57.63	38.23	17.94	65.37	100	0	P	H
													H
													H
		10440	46.53	-27.47	74	59.23	39.89	14.91	67.5	100	0	P	V
		15660	46.27	-27.73	74	55.47	38.23	17.94	65.37	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	51.83	-22.17	74	64.42	39.97	14.94	67.5	166	233	P	H
		10480	40.52	-13.48	54	53.11	39.97	14.94	67.5	166	233	A	H
		15720	45.81	-28.19	74	55.17	38.03	17.97	65.36	100	0	P	H
													H
		10480	46.73	-27.27	74	59.32	39.97	14.94	67.5	100	0	P	V
		15720	46.67	-27.33	74	56.03	38.03	17.97	65.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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 38 5190MHz		5149.7	58.81	-15.19	74	50.47	31.58	10.23	33.47	100	118	P	H
		5150	52.5	-1.5	54	44.16	31.58	10.23	33.47	100	118	A	H
	*	5190	99.17	-	-	90.78	31.62	10.24	33.47	100	118	P	H
	*	5190	91.84	-	-	83.45	31.62	10.24	33.47	100	118	A	H
		5455.38	48.22	-25.78	74	38.92	31.94	10.84	33.48	100	118	P	H
		5413.03	40.38	-13.62	54	31.09	31.9	10.87	33.48	100	118	A	H
		5142.65	55.77	-18.23	74	47.43	31.58	10.23	33.47	168	156	P	V
		5147.45	48.28	-5.72	54	39.94	31.58	10.23	33.47	168	156	A	V
	*	5190	95.84	-	-	87.45	31.62	10.24	33.47	168	156	P	V
	*	5190	88.8	-	-	80.41	31.62	10.24	33.47	168	156	A	V
		5438	48.45	-25.55	74	39.17	31.92	10.84	33.48	168	156	P	V
		5458.13	40.29	-13.71	54	30.99	31.94	10.84	33.48	168	156	A	V
802.11n HT40 CH 46 5230MHz		5130.8	51.07	-22.93	74	42.76	31.56	10.22	33.47	100	118	P	H
		5149.85	41.45	-12.55	54	33.11	31.58	10.23	33.47	100	118	A	H
	*	5230	100.24	-	-	91.66	31.68	10.37	33.47	100	118	P	H
	*	5230	92.51	-	-	83.93	31.68	10.37	33.47	100	118	A	H
		5398.4	50.31	-23.69	74	41.04	31.88	10.87	33.48	100	118	P	H
		5427.66	40.39	-13.61	54	31.13	31.9	10.84	33.48	100	118	A	H
		5049.2	49.46	-24.54	74	41.27	31.46	10.2	33.47	218	156	P	V
		5100.65	40.61	-13.39	54	32.34	31.52	10.22	33.47	218	156	A	V
	*	5230	97.33	-	-	88.75	31.68	10.37	33.47	218	156	P	V
	*	5230	89.83	-	-	81.25	31.68	10.37	33.47	218	156	A	V
		5441.19	48.31	-25.69	74	39.03	31.92	10.84	33.48	218	156	P	V
		5454.28	40.28	-13.72	54	30.98	31.94	10.84	33.48	218	156	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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 38 5190MHz		10380	48	-26	74	60.83	39.81	14.86	67.5	100	0	P	H
		15570	40.48	-33.52	74	49.48	38.49	17.9	65.39	100	0	P	H
													H
													H
		10380	46.08	-27.92	74	58.91	39.81	14.86	67.5	100	0	P	V
		15570	39.9	-34.1	74	48.9	38.49	17.9	65.39	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	46.01	-27.99	74	58.68	39.92	14.91	67.5	100	0	P	H
		15690	40.29	-33.71	74	49.56	38.13	17.96	65.36	100	0	P	H
													H
													H
		10460	44.8	-29.2	74	57.47	39.92	14.91	67.5	100	0	P	V
		15690	41.19	-32.81	74	50.46	38.13	17.96	65.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 36 5180MHz		5147.6	50.5	-23.5	74	42.16	31.58	10.23	33.47	100	118	P	H
		5150	46.06	-7.94	54	37.72	31.58	10.23	33.47	100	118	A	H
	*	5180	104.59	-	-	96.21	31.62	10.23	33.47	100	118	P	H
	*	5180	97.65	-	-	89.27	31.62	10.23	33.47	100	118	A	H
													H
													H
		5147.45	49.8	-24.2	74	41.46	31.58	10.23	33.47	198	158	P	V
		5150	44.59	-9.41	54	36.25	31.58	10.23	33.47	198	158	A	V
	*	5180	102.29	-	-	93.91	31.62	10.23	33.47	198	158	P	V
	*	5180	95.19	-	-	86.81	31.62	10.23	33.47	198	158	A	V
													V
													V
802.11ac VHT20 CH 44 5220MHz		5148.95	53.58	-20.42	74	45.24	31.58	10.23	33.47	100	114	P	H
		5149.7	43.51	-10.49	54	35.17	31.58	10.23	33.47	100	114	A	H
	*	5220	105.78	-	-	97.35	31.66	10.24	33.47	100	114	P	H
	*	5220	98.88	-	-	90.45	31.66	10.24	33.47	100	114	A	H
		5396.97	48.5	-25.5	74	39.23	31.88	10.87	33.48	100	114	P	H
		5445.59	39.93	-14.07	54	30.63	31.94	10.84	33.48	100	114	A	H
		5149.1	49.83	-24.17	74	41.49	31.58	10.23	33.47	195	158	P	V
		5149.7	42.3	-11.7	54	33.96	31.58	10.23	33.47	195	158	A	V
	*	5220	101.37	-	-	92.94	31.66	10.24	33.47	195	158	P	V
	*	5220	94.55	-	-	86.12	31.66	10.24	33.47	195	158	A	V
		5368.92	48.77	-25.23	74	39.66	31.84	10.75	33.48	195	158	P	V
		5440.09	39.98	-14.02	54	30.7	31.92	10.84	33.48	195	158	A	V



802.11ac VHT20 CH 48 5240MHz		5080.85	49	-25	74	40.76	31.5	10.21	33.47	100	115	P	H
		5115.5	40.35	-13.65	54	32.06	31.54	10.22	33.47	100	115	A	H
	*	5240	105.29	-	-	96.71	31.68	10.37	33.47	100	115	P	H
	*	5240	98.66	-	-	90.08	31.68	10.37	33.47	100	115	A	H
		5440.31	48.02	-25.98	74	38.74	31.92	10.84	33.48	100	115	P	H
		5384.32	39.88	-14.12	54	30.63	31.86	10.87	33.48	100	115	A	H
		5010.65	48.42	-25.58	74	40.28	31.42	10.19	33.47	219	156	P	V
		5080.4	40.26	-13.74	54	32.02	31.5	10.21	33.47	219	156	A	V
	*	5240	101.79	-	-	93.21	31.68	10.37	33.47	219	156	P	V
	*	5240	94.7	-	-	86.12	31.68	10.37	33.47	219	156	A	V
		5369.69	48.31	-25.69	74	39.2	31.84	10.75	33.48	219	156	P	V
		5382.78	39.75	-14.25	54	30.5	31.86	10.87	33.48	219	156	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 36 5180MHz		10360	50.87	-23.13	74	63.72	39.79	14.86	67.5	100	0	P	H
		15540	41.88	-32.12	74	50.78	38.6	17.89	65.39	100	0	P	H
													H
													H
		10360	48.9	-25.1	74	61.75	39.79	14.86	67.5	100	0	P	V
		15540	47.33	-26.67	74	56.23	38.6	17.89	65.39	100	0	P	V
													V
													V
802.11ac VHT20 CH 44 5220MHz		10440	53.45	-20.55	74	66.15	39.89	14.91	67.5	249	338	P	H
		10440	44.04	-9.96	54	56.74	39.89	14.91	67.5	249	338	A	H
		15660	45.08	-28.92	74	54.28	38.23	17.94	65.37	100	0	P	H
													H
		10440	49.37	-24.63	74	62.07	39.89	14.91	67.5	100	0	P	V
		15660	45.87	-28.13	74	55.07	38.23	17.94	65.37	100	0	P	V
													V
													V
802.11ac VHT20 CH 48 5240MHz		10480	49.83	-24.17	74	62.42	39.97	14.94	67.5	100	0	P	H
		15720	46.73	-27.27	74	56.09	38.03	17.97	65.36	100	0	P	H
													H
													H
		10480	48.7	-25.3	74	61.29	39.97	14.94	67.5	100	0	P	V
		15720	48.92	-25.08	74	58.28	38.03	17.97	65.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 38 5190MHz		5148.65	58.15	-15.85	74	49.81	31.58	10.23	33.47	100	115	P	H
		5150	52.44	-1.56	54	44.1	31.58	10.23	33.47	100	115	A	H
	*	5190	99.64	-	-	91.25	31.62	10.24	33.47	100	115	P	H
	*	5190	92.49	-	-	84.1	31.62	10.24	33.47	100	115	A	H
		5425.57	48.33	-25.67	74	39.07	31.9	10.84	33.48	100	115	P	H
		5449.55	39.95	-14.05	54	30.65	31.94	10.84	33.48	100	115	A	H
		5146.55	54.34	-19.66	74	46	31.58	10.23	33.47	223	157	P	V
		5150	47.51	-6.49	54	39.17	31.58	10.23	33.47	223	157	A	V
	*	5190	96.65	-	-	88.26	31.62	10.24	33.47	223	157	P	V
	*	5190	89.38	-	-	80.99	31.62	10.24	33.47	223	157	A	V
		5450.32	48.53	-25.47	74	39.23	31.94	10.84	33.48	223	157	P	V
		5452.08	39.87	-14.13	54	30.57	31.94	10.84	33.48	223	157	A	V
802.11ac VHT40 CH 46 5230MHz		5112.5	48.06	-25.94	74	39.77	31.54	10.22	33.47	100	114	P	H
		5147.6	41.07	-12.93	54	32.73	31.58	10.23	33.47	100	114	A	H
	*	5230	101.23	-	-	92.65	31.68	10.37	33.47	100	114	P	H
	*	5230	94.15	-	-	85.57	31.68	10.37	33.47	100	114	A	H
		5387.18	48.89	-25.11	74	39.64	31.86	10.87	33.48	100	114	P	H
		5370.02	40.3	-13.7	54	31.19	31.84	10.75	33.48	100	114	A	H
		5039	48.4	-25.6	74	40.21	31.46	10.2	33.47	190	158	P	V
		5145.05	40.53	-13.47	54	32.19	31.58	10.23	33.47	190	158	A	V
	*	5230	97.32	-	-	88.74	31.68	10.37	33.47	190	158	P	V
	*	5230	90.18	-	-	81.6	31.68	10.37	33.47	190	158	A	V
		5397.3	48.76	-25.24	74	39.49	31.88	10.87	33.48	190	158	P	V
		5458.79	39.83	-14.17	54	30.53	31.94	10.84	33.48	190	158	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 38 5190MHz		10380	48.48	-25.52	74	61.31	39.81	14.86	67.5	100	0	P	H
		15570	39.88	-34.12	74	48.88	38.49	17.9	65.39	100	0	P	H
													H
													H
		10380	46.77	-27.23	74	59.6	39.81	14.86	67.5	100	0	P	V
		15570	39	-35	74	48	38.49	17.9	65.39	100	0	P	V
													V
													V
802.11ac VHT40 CH 46 5230MHz		10460	47.15	-26.85	74	59.82	39.92	14.91	67.5	100	0	P	H
		15690	40.94	-33.06	74	50.21	38.13	17.96	65.36	100	0	P	H
													H
													H
		10460	43.56	-30.44	74	56.23	39.92	14.91	67.5	100	0	P	V
		15690	40.4	-33.6	74	49.67	38.13	17.96	65.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 42 5210MHz		5148.5	61.17	-12.83	74	52.83	31.58	10.23	33.47	100	118	P	H
		5148.8	53.8	-0.2	54	45.46	31.58	10.23	33.47	100	118	A	H
	*	5210	96.96	-	-	88.53	31.66	10.24	33.47	100	118	P	H
	*	5210	89.01	-	-	80.58	31.66	10.24	33.47	100	118	A	H
		5350.77	50.1	-23.9	74	41.01	31.82	10.75	33.48	100	118	P	H
		5355.06	43.28	-10.72	54	34.19	31.82	10.75	33.48	100	118	A	H
		5145.35	57.15	-16.85	74	48.81	31.58	10.23	33.47	205	162	P	V
		5145.35	50.21	-3.79	54	41.87	31.58	10.23	33.47	205	162	A	V
	*	5210	92.97	-	-	84.54	31.66	10.24	33.47	205	162	P	V
	*	5210	84.84	-	-	76.41	31.66	10.24	33.47	205	162	A	V
		5445.59	48	-26	74	38.7	31.94	10.84	33.48	205	162	P	V
		5351.43	40.66	-13.34	54	31.57	31.82	10.75	33.48	205	162	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 42 5210MHz		10420	45.36	-28.64	74	58.1	39.87	14.89	67.5	100	0	P	H
		15630	38.16	-35.84	74	47.3	38.29	17.94	65.37	100	0	P	H
													H
													H
		10420	44.54	-29.46	74	57.28	39.87	14.89	67.5	100	0	P	V
		15630	38.42	-35.58	74	47.56	38.29	17.94	65.37	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5037.8	48.13	-25.87	74	39.94	31.46	10.2	33.47	100	118	P	H
		5052.65	39.84	-14.16	54	31.65	31.46	10.2	33.47	100	118	A	H
	*	5260	105.74	-	-	97.13	31.72	10.37	33.48	100	118	P	H
	*	5260	97.5	-	-	88.89	31.72	10.37	33.48	100	118	A	H
		5418.09	48.23	-25.77	74	38.94	31.9	10.87	33.48	100	118	P	H
		5456.04	39.28	-14.72	54	29.98	31.94	10.84	33.48	100	118	A	H
		5003.45	48.85	-25.15	74	40.73	31.4	10.19	33.47	192	165	P	V
		5081.15	39.73	-14.27	54	31.49	31.5	10.21	33.47	192	165	A	V
	*	5260	101.83	-	-	93.22	31.72	10.37	33.48	192	165	P	V
	*	5260	93.77	-	-	85.16	31.72	10.37	33.48	192	165	A	V
		5420.07	49.45	-24.55	74	40.19	31.9	10.84	33.48	192	165	P	V
		5457.47	39.33	-14.67	54	30.03	31.94	10.84	33.48	192	165	A	V
802.11a CH 60 5300MHz		5025.05	48.55	-25.45	74	40.38	31.44	10.2	33.47	100	118	P	H
		5091.5	39.72	-14.28	54	31.46	31.52	10.21	33.47	100	118	A	H
	*	5300	106.98	-	-	98.21	31.76	10.49	33.48	100	118	P	H
	*	5300	99.01	-	-	90.24	31.76	10.49	33.48	100	118	A	H
		5356.49	52.19	-21.81	74	43.1	31.82	10.75	33.48	100	118	P	H
		5351.1	42.61	-11.39	54	33.52	31.82	10.75	33.48	100	118	A	H
		5070.05	48.68	-25.32	74	40.46	31.48	10.21	33.47	204	157	P	V
		5091.5	39.68	-14.32	54	31.42	31.52	10.21	33.47	204	157	A	V
	*	5300	102.68	-	-	93.91	31.76	10.49	33.48	204	157	P	V
	*	5300	94.42	-	-	85.65	31.76	10.49	33.48	204	157	A	V
		5441.19	47.81	-26.19	74	38.53	31.92	10.84	33.48	204	157	P	V
		5350.22	39.88	-14.12	54	30.79	31.82	10.75	33.48	204	157	A	V



802.11a CH 64 5320MHz	*	5320	107.29	-	-	98.37	31.78	10.62	33.48	100	118	P	H
	*	5320	99	-	-	90.08	31.78	10.62	33.48	100	118	A	H
		5363.31	60.06	-13.94	74	50.95	31.84	10.75	33.48	100	118	P	H
		5350.33	50.26	-3.74	54	41.17	31.82	10.75	33.48	100	118	A	H
													H
													H
	*	5320	102.56	-	-	93.64	31.78	10.62	33.48	200	158	P	V
	*	5320	94.34	-	-	85.42	31.78	10.62	33.48	200	158	A	V
		5357.48	52.68	-21.32	74	43.59	31.82	10.75	33.48	200	158	P	V
		5350.44	45.17	-8.83	54	36.08	31.82	10.75	33.48	200	158	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	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 CH 52 5260MHz		10520	49.78	-24.22	74	62.29	40.01	14.96	67.48	100	0	P	H
		15780	46.99	-27.01	74	56.47	37.87	17.99	65.34	100	0	P	H
													H
													H
		10520	46.97	-27.03	74	59.48	40.01	14.96	67.48	100	0	P	V
		15780	48.02	-25.98	74	57.5	37.87	17.99	65.34	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	48.65	-25.35	74	60.97	40.06	15.02	67.4	100	0	P	H
		15900	46.39	-27.61	74	56.16	37.51	18.04	65.32	100	0	P	H
													H
													H
		10600	46.32	-27.68	74	58.64	40.06	15.02	67.4	100	0	P	V
		15900	46.3	-27.7	74	56.07	37.51	18.04	65.32	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	40.96	-33.04	74	53.2	40.08	15.04	67.36	100	0	P	H
		15960	45.85	-28.15	74	55.78	37.3	18.08	65.31	100	0	P	H
													H
													H
		10640	48.91	-25.09	74	61.15	40.08	15.04	67.36	100	0	P	V
		15960	44.66	-29.34	74	54.59	37.3	18.08	65.31	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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 52 5260MHz		5121.35	49.19	-24.81	74	40.9	31.54	10.22	33.47	100	118	P	H
		5078.75	39.82	-14.18	54	31.58	31.5	10.21	33.47	100	118	A	H
	*	5260	104.91	-	-	96.3	31.72	10.37	33.48	100	118	P	H
	*	5260	97.15	-	-	88.54	31.72	10.37	33.48	100	118	A	H
		5375.85	48.21	-25.79	74	39.1	31.84	10.75	33.48	100	118	P	H
		5443.61	39.37	-14.63	54	30.09	31.92	10.84	33.48	100	118	A	H
		5043.8	48.95	-25.05	74	40.76	31.46	10.2	33.47	192	165	P	V
		5044.25	39.78	-14.22	54	31.59	31.46	10.2	33.47	192	165	A	V
	*	5260	101.96	-	-	93.35	31.72	10.37	33.48	192	165	P	V
	*	5260	93.79	-	-	85.18	31.72	10.37	33.48	192	165	A	V
		5430.96	48.05	-25.95	74	38.77	31.92	10.84	33.48	192	165	P	V
		5446.47	39.18	-14.82	54	29.88	31.94	10.84	33.48	192	165	A	V
802.11n HT20 CH 60 5300MHz		5051.15	48.47	-25.53	74	40.28	31.46	10.2	33.47	100	118	P	H
		5027.9	39.74	-14.26	54	31.57	31.44	10.2	33.47	100	118	A	H
	*	5300	106.68	-	-	97.91	31.76	10.49	33.48	100	118	P	H
	*	5300	98.58	-	-	89.81	31.76	10.49	33.48	100	118	A	H
		5352.31	50.86	-23.14	74	41.77	31.82	10.75	33.48	100	118	P	H
		5350.77	42.36	-11.64	54	33.27	31.82	10.75	33.48	100	118	A	H
		5010.35	47.82	-26.18	74	39.68	31.42	10.19	33.47	204	157	P	V
		5047.4	39.82	-14.18	54	31.63	31.46	10.2	33.47	204	157	A	V
	*	5300	102.64	-	-	93.87	31.76	10.49	33.48	204	157	P	V
	*	5300	94.52	-	-	85.75	31.76	10.49	33.48	204	157	A	V
		5420.62	48.86	-25.14	74	39.6	31.9	10.84	33.48	204	157	P	V
		5350.44	39.94	-14.06	54	30.85	31.82	10.75	33.48	204	157	A	V



802.11n HT20 CH 64 5320MHz	*	5320	106.59	-	-	97.67	31.78	10.62	33.48	100	118	P	H
	*	5320	98.55	-	-	89.63	31.78	10.62	33.48	100	118	A	H
		5355.06	57.63	-16.37	74	48.54	31.82	10.75	33.48	100	118	P	H
		5351.21	48.85	-5.15	54	39.76	31.82	10.75	33.48	100	118	A	H
													H
													H
	*	5320	102.45	-	-	93.53	31.78	10.62	33.48	200	158	P	V
	*	5320	94.29	-	-	85.37	31.78	10.62	33.48	200	158	A	V
		5357.81	51.04	-22.96	74	41.95	31.82	10.75	33.48	200	158	P	V
		5350.33	44.98	-9.02	54	35.89	31.82	10.75	33.48	200	158	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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 52 5260MHz		10520	50.78	-23.22	74	63.29	40.01	14.96	67.48	100	0	P	H
		15780	47.44	-26.56	74	56.92	37.87	17.99	65.34	100	0	P	H
													H
													H
		10520	45.7	-28.3	74	58.21	40.01	14.96	67.48	100	0	P	V
		15780	46	-28	74	55.48	37.87	17.99	65.34	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	52.52	-21.48	74	64.84	40.06	15.02	67.4	289	335	P	H
		10600	42.96	-31.04	74	55.28	40.06	15.02	67.4	289	335	A	H
		15900	47.24	-26.76	74	57.01	37.51	18.04	65.32	100	0	P	H
													H
		10600	45.21	-28.79	74	57.53	40.06	15.02	67.4	100	0	P	V
		15900	44.87	-29.13	74	54.64	37.51	18.04	65.32	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	49.16	-24.84	74	61.4	40.08	15.04	67.36	100	0	P	H
		15960	46.07	-27.93	74	56	37.3	18.08	65.31	100	0	P	H
													H
													H
		10640	47.71	-26.29	74	59.95	40.08	15.04	67.36	400	0	P	V
		15960	43.64	-30.36	74	53.57	37.3	18.08	65.31	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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 54 5270MHz		5107.25	49.02	-24.98	74	40.73	31.54	10.22	33.47	100	118	P	H
		5105.6	40.51	-13.49	54	32.22	31.54	10.22	33.47	100	118	A	H
	*	5270	102.42	-	-	93.69	31.72	10.49	33.48	100	118	P	H
	*	5270	94.06	-	-	85.33	31.72	10.49	33.48	100	118	A	H
		5352.64	52.07	-21.93	74	42.98	31.82	10.75	33.48	100	118	P	H
		5350	44.09	-9.91	54	35	31.82	10.75	33.48	100	118	A	H
		5138.45	49.48	-24.52	74	41.17	31.56	10.22	33.47	192	155	P	V
		5075.45	40.47	-13.53	54	32.23	31.5	10.21	33.47	192	155	A	V
	*	5270	96.67	-	-	87.94	31.72	10.49	33.48	192	155	P	V
	*	5270	89.35	-	-	80.62	31.72	10.49	33.48	192	155	A	V
		5356.93	48.81	-25.19	74	39.72	31.82	10.75	33.48	192	155	P	V
		5350.22	40.91	-13.09	54	31.82	31.82	10.75	33.48	192	155	A	V
802.11n HT40 CH 62 5310MHz		5063.6	49.03	-24.97	74	40.81	31.48	10.21	33.47	100	117	P	H
		5042.75	40.6	-13.4	54	32.41	31.46	10.2	33.47	100	117	A	H
	*	5310	100.56	-	-	91.64	31.78	10.62	33.48	100	117	P	H
	*	5310	93.19	-	-	84.27	31.78	10.62	33.48	100	117	A	H
		5353.52	59.25	-14.75	74	50.16	31.82	10.75	33.48	100	117	P	H
		5350	53.75	-0.25	54	44.66	31.82	10.75	33.48	100	117	A	H
		5095.55	48.72	-25.28	74	40.46	31.52	10.21	33.47	197	157	P	V
		5109.95	40.45	-13.55	54	32.16	31.54	10.22	33.47	197	157	A	V
	*	5310	96.34	-	-	87.42	31.78	10.62	33.48	197	157	P	V
	*	5310	89.14	-	-	80.22	31.78	10.62	33.48	197	157	A	V
		5350	55.03	-18.97	74	45.94	31.82	10.75	33.48	197	157	P	V
		5358.69	47.23	-6.77	54	38.14	31.82	10.75	33.48	197	157	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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 54 5270MHz		10540	45.5	-28.5	74	57.99	40.02	14.96	67.47	100	0	P	H
		15810	40.06	-33.94	74	49.62	37.77	18.01	65.34	100	0	P	H
													H
													H
		10540	44.94	-29.06	74	57.43	40.02	14.96	67.47	100	0	P	V
		15810	39.25	-34.75	74	48.81	37.77	18.01	65.34	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	45.09	-28.91	74	57.38	40.07	15.02	67.38	100	0	P	H
		15930	40.42	-33.58	74	50.26	37.41	18.06	65.31	100	0	P	H
													H
													H
		10620	44.06	-29.94	74	56.35	40.07	15.02	67.38	100	0	P	V
		15930	39.97	-34.03	74	49.81	37.41	18.06	65.31	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 52 5260MHz		5107.85	48.49	-25.51	74	40.2	31.54	10.22	33.47	100	118	P	H
		5079.8	40.47	-13.53	54	32.23	31.5	10.21	33.47	100	118	A	H
	*	5260	106.09	-	-	97.48	31.72	10.37	33.48	100	118	P	H
	*	5260	98.72	-	-	90.11	31.72	10.37	33.48	100	118	A	H
		5442.73	48.68	-25.32	74	39.4	31.92	10.84	33.48	100	118	P	H
		5452.74	40.14	-13.86	54	30.84	31.94	10.84	33.48	100	118	A	H
		5021.15	49.09	-24.91	74	40.92	31.44	10.2	33.47	195	157	P	V
		5081.15	40.22	-13.78	54	31.98	31.5	10.21	33.47	195	157	A	V
	*	5260	101.49	-	-	92.88	31.72	10.37	33.48	195	157	P	V
	*	5260	94.26	-	-	85.65	31.72	10.37	33.48	195	157	A	V
		5372.66	47.77	-26.23	74	38.66	31.84	10.75	33.48	195	157	P	V
		5436.57	39.83	-14.17	54	30.55	31.92	10.84	33.48	195	157	A	V
802.11ac VHT20 CH 60 5300MHz		5027.3	49.22	-24.78	74	41.05	31.44	10.2	33.47	100	114	P	H
		5025.65	40.22	-13.78	54	32.05	31.44	10.2	33.47	100	114	A	H
	*	5300	107.09	-	-	98.32	31.76	10.49	33.48	100	114	P	H
	*	5300	100.09	-	-	91.32	31.76	10.49	33.48	100	114	A	H
		5350	50.82	-23.18	74	41.73	31.82	10.75	33.48	100	114	P	H
		5350.44	43.08	-10.92	54	33.99	31.82	10.75	33.48	100	114	A	H
		5070.65	49.51	-24.49	74	41.29	31.48	10.21	33.47	182	156	P	V
		5117.3	40.64	-13.36	54	32.35	31.54	10.22	33.47	182	156	A	V
	*	5300	101.57	-	-	92.8	31.76	10.49	33.48	182	156	P	V
	*	5300	94.88	-	-	86.11	31.76	10.49	33.48	182	156	A	V
		5447.57	49.01	-24.99	74	39.71	31.94	10.84	33.48	182	156	P	V
		5350.33	40.2	-13.8	54	31.11	31.82	10.75	33.48	182	156	A	V



802.11ac VHT20 CH 64 5320MHz	*	5320	107	-	-	98.08	31.78	10.62	33.48	100	114	P	H
	*	5320	99.89	-	-	90.97	31.78	10.62	33.48	100	114	A	H
		5353.74	58.21	-15.79	74	49.12	31.82	10.75	33.48	100	114	P	H
		5353.08	50.55	-3.45	54	41.46	31.82	10.75	33.48	100	114	A	H
													H
													H
	*	5320	101.28	-	-	92.36	31.78	10.62	33.48	197	159	P	V
	*	5320	94.52	-	-	85.6	31.78	10.62	33.48	197	159	A	V
		5358.14	51.22	-22.78	74	42.13	31.82	10.75	33.48	197	159	P	V
		5351.32	45.07	-8.93	54	35.98	31.82	10.75	33.48	197	159	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 52 5260MHz		10520	53.15	-20.85	74	65.66	40.01	14.96	67.48	240	238	P	H
		10520	42.09	-11.91	54	54.6	40.01	14.96	67.48	240	238	A	H
		15780	45.64	-28.36	74	55.12	37.87	17.99	65.34	100	0	P	H
													H
		10520	47.35	-26.65	74	59.86	40.01	14.96	67.48	100	0	P	V
		15780	46.88	-27.12	74	56.36	37.87	17.99	65.34	100	0	P	V
													V
802.11ac VHT20 CH 60 5300MHz		10600	54.93	-19.07	74	67.25	40.06	15.02	67.4	194	341	P	H
		10600	43.27	-10.73	54	55.59	40.06	15.02	67.4	194	341	A	H
		15900	46.6	-27.4	74	56.37	37.51	18.04	65.32	100	0	P	H
													H
		10600	48.71	-25.29	74	61.03	40.06	15.02	67.4	100	0	P	V
		15900	45.08	-28.92	74	54.85	37.51	18.04	65.32	100	0	P	V
													V
802.11ac VHT20 CH 64 5320MHz		10640	49.87	-24.13	74	62.11	40.08	15.04	67.36	100	0	P	H
		15960	45.24	-28.76	74	55.17	37.3	18.08	65.31	100	0	P	H
													H
													H
		10640	48.08	-25.92	74	60.32	40.08	15.04	67.36	100	0	P	V
		15960	45.18	-28.82	74	55.11	37.3	18.08	65.31	100	0	P	V
													V
Remark													V
	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 54 5270MHz		5080.85	49.32	-24.68	74	41.08	31.5	10.21	33.47	100	119	P	H
		5078.6	40.22	-13.78	54	31.98	31.5	10.21	33.47	100	119	A	H
	*	5270	102.26	-	-	93.53	31.72	10.49	33.48	100	119	P	H
	*	5270	94.42	-	-	85.69	31.72	10.49	33.48	100	119	A	H
		5352.09	50.56	-23.44	74	41.47	31.82	10.75	33.48	100	119	P	H
		5352.2	43.09	-10.91	54	34	31.82	10.75	33.48	100	119	A	H
		5024.45	49.01	-24.99	74	40.84	31.44	10.2	33.47	186	161	P	V
		5116.85	40.21	-13.79	54	31.92	31.54	10.22	33.47	186	161	A	V
	*	5270	98.17	-	-	89.44	31.72	10.49	33.48	186	161	P	V
	*	5270	89.92	-	-	81.19	31.72	10.49	33.48	186	161	A	V
		5351.65	48.03	-25.97	74	38.94	31.82	10.75	33.48	186	161	P	V
		5350.99	40.95	-13.05	54	31.86	31.82	10.75	33.48	186	161	A	V
802.11ac VHT40 CH 62 5310MHz		5027	49.02	-24.98	74	40.85	31.44	10.2	33.47	100	118	P	H
		5045.9	40.48	-13.52	54	32.29	31.46	10.2	33.47	100	118	A	H
	*	5310	102.1	-	-	93.18	31.78	10.62	33.48	100	118	P	H
	*	5310	94.35	-	-	85.43	31.78	10.62	33.48	100	118	A	H
		5350	59.9	-14.1	74	50.81	31.82	10.75	33.48	100	118	P	H
		5350.11	53.76	-0.24	54	44.67	31.82	10.75	33.48	100	118	A	H
		5029.7	49.28	-24.72	74	41.11	31.44	10.2	33.47	135	157	P	V
		5113.4	40.21	-13.79	54	31.92	31.54	10.22	33.47	135	157	A	V
	*	5310	97.4	-	-	88.48	31.78	10.62	33.48	135	157	P	V
	*	5310	89.27	-	-	80.35	31.78	10.62	33.48	135	157	A	V
		5355.94	54.15	-19.85	74	45.06	31.82	10.75	33.48	135	157	P	V
		5354.95	47.2	-6.8	54	38.11	31.82	10.75	33.48	135	157	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 54 5270MHz		10540	45.27	-28.73	74	57.76	40.02	14.96	67.47	100	0	P	H
		15810	39.68	-34.32	74	49.24	37.77	18.01	65.34	100	0	P	H
													H
													H
		10540	45.32	-28.68	74	57.81	40.02	14.96	67.47	100	0	P	V
		15810	38.5	-35.5	74	48.06	37.77	18.01	65.34	100	0	P	V
													V
													V
802.11ac VHT40 CH 62 5310MHz		10620	44.29	-29.71	74	56.58	40.07	15.02	67.38	100	0	P	H
		15930	36.58	-37.42	74	46.42	37.41	18.06	65.31	100	0	P	H
													H
													H
		10620	43.8	-30.2	74	56.09	40.07	15.02	67.38	100	0	P	V
		15930	37.34	-36.66	74	47.18	37.41	18.06	65.31	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 58 5290MHz		5140.7	50.46	-23.54	74	42.12	31.58	10.23	33.47	100	117	P	H
		5149.1	41.52	-12.48	54	33.18	31.58	10.23	33.47	100	117	A	H
	*	5290	97.43	-	-	88.68	31.74	10.49	33.48	100	117	P	H
	*	5290	89.9	-	-	81.15	31.74	10.49	33.48	100	117	A	H
		5379.15	59.83	-14.17	74	50.7	31.86	10.75	33.48	100	117	P	H
		5351.98	52.91	-1.09	54	43.82	31.82	10.75	33.48	100	117	A	H
		5079.8	48.54	-25.46	74	40.3	31.5	10.21	33.47	206	166	P	V
		5147.3	40.87	-13.13	54	32.53	31.58	10.23	33.47	206	166	A	V
	*	5290	94.7	-	-	85.95	31.74	10.49	33.48	206	166	P	V
	*	5290	85.01	-	-	76.26	31.74	10.49	33.48	206	166	A	V
		5366.06	53.76	-20.24	74	44.65	31.84	10.75	33.48	206	166	P	V
		5355.83	47.2	-6.8	54	38.11	31.82	10.75	33.48	206	166	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 58 5290MHz		10580	43.25	-30.75	74	55.62	40.05	14.99	67.41	100	0	P	H
		15870	38.58	-35.42	74	48.3	37.56	18.04	65.32	100	0	P	H
													H
													H
		10580	42.88	-31.12	74	55.25	40.05	14.99	67.41	100	0	P	V
		15870	38.4	-35.6	74	48.12	37.56	18.04	65.32	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5466.64	60.37	-13.63	74	51.08	31.96	10.81	33.48	100	117	P	H
		5470	53.72	-0.28	54	44.43	31.96	10.81	33.48	100	117	A	H
	*	5500	107.51	-	-	98.18	32	10.81	33.48	100	117	P	H
	*	5500	100.09	-	-	90.76	32	10.81	33.48	100	117	A	H
													H
													H
		5470	57.29	-16.71	74	48	31.96	10.81	33.48	147	21	P	V
		5470	47.43	-6.57	54	38.14	31.96	10.81	33.48	147	21	A	V
	*	5500	101.67	-	-	92.34	32	10.81	33.48	147	21	P	V
	*	5500	94.1	-	-	84.77	32	10.81	33.48	147	21	A	V
													V
													V
802.11a CH 116 5580MHz		5446.96	47.84	-26.16	74	38.54	31.94	10.84	33.48	205	115	P	H
		5465.04	39.54	-14.46	54	30.25	31.96	10.81	33.48	205	115	A	H
	*	5580	106.51	-	-	97.19	32.1	10.74	33.52	205	115	P	H
	*	5580	99.91	-	-	90.59	32.1	10.74	33.52	205	115	A	H
		5759.4	48.01	-25.99	74	38.6	32.36	10.63	33.58	205	115	P	H
		5752.84	39.65	-14.35	54	30.23	32.36	10.63	33.57	205	115	A	H
		5421.68	47.13	-26.87	74	37.87	31.9	10.84	33.48	138	156	P	V
		5453.84	39.35	-14.65	54	30.05	31.94	10.84	33.48	138	156	A	V
	*	5580	100.31	-	-	90.99	32.1	10.74	33.52	138	156	P	V
	*	5580	92.06	-	-	82.74	32.1	10.74	33.52	138	156	A	V
		5732.84	47.82	-26.18	74	38.43	32.31	10.65	33.57	138	156	P	V
		5763.32	39.51	-14.49	54	30.1	32.36	10.63	33.58	138	156	A	V



802.11a CH 140 5700MHz	*	5700	103.56	-	-	94.18	32.27	10.67	33.56	100	117	P	H
	*	5700	96.23	-	-	86.85	32.27	10.67	33.56	100	117	A	H
		5734.68	60.65	-13.35	74	51.23	32.34	10.65	33.57	100	117	P	H
		5726.12	48.51	-5.49	54	39.12	32.31	10.65	33.57	100	117	A	H
													H
													H
	*	5699	99.89	-	-	90.51	32.27	10.67	33.56	262	91	P	V
	*	5699	92.88	-	-	83.5	32.27	10.67	33.56	262	91	A	V
		5725.24	53.78	-20.22	74	44.39	32.31	10.65	33.57	262	91	P	V
		5725.64	45.69	-8.31	54	36.3	32.31	10.65	33.57	262	91	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	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 CH 100 5500MHz		11000	49.12	-24.88	74	60.55	40.3	15.27	67	100	0	P	H
		16500	48.03	-25.97	74	54.84	38.9	18.29	64	100	0	P	H
													H
													H
		11000	49.35	-24.65	74	60.78	40.3	15.27	67	100	0	P	V
		16500	47.81	-26.19	74	54.62	38.9	18.29	64	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	50.83	-23.17	74	61.85	40.17	15.38	66.57	100	0	P	H
		16740	41.98	-32.02	74	47.91	39.58	18.39	63.9	100	0	P	H
													H
													H
		11160	49.69	-24.31	74	60.71	40.17	15.38	66.57	100	0	P	V
		16740	39.14	-34.86	74	45.07	39.58	18.39	63.9	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	49.55	-24.45	74	60	39.98	15.53	65.96	100	0	P	H
		17100	41.91	-32.09	74	46.7	40.6	18.53	63.92	100	0	P	H
													H
													H
		11400	46.69	-27.31	74	57.14	39.98	15.53	65.96	100	0	P	V
		17100	41.48	-32.52	74	46.27	40.6	18.53	63.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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 100 5500MHz		5465.36	58.78	-15.22	74	49.49	31.96	10.81	33.48	100	118	P	H
		5470	51.73	-2.27	54	42.44	31.96	10.81	33.48	100	118	A	H
	*	5500	107.33	-	-	98	32	10.81	33.48	100	118	P	H
	*	5500	99.11	-	-	89.78	32	10.81	33.48	100	118	A	H
													H
													H
		5465.04	55.91	-18.09	74	46.62	31.96	10.81	33.48	277	78	P	V
		5470	46.02	-7.98	54	36.73	31.96	10.81	33.48	277	78	A	V
	*	5500	101.45	-	-	92.12	32	10.81	33.48	277	78	P	V
	*	5500	93.63	-	-	84.3	32	10.81	33.48	277	78	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5435.92	48.04	-25.96	74	38.76	31.92	10.84	33.48	195	120	P	H
		5467.92	39.44	-14.56	54	30.15	31.96	10.81	33.48	195	120	A	H
	*	5580	107.31	-	-	97.99	32.1	10.74	33.52	195	120	P	H
	*	5580	98.91	-	-	89.59	32.1	10.74	33.52	195	120	A	H
		5726.52	48.2	-25.8	74	38.81	32.31	10.65	33.57	195	120	P	H
		5761.08	39.65	-14.35	54	30.24	32.36	10.63	33.58	195	120	A	H
		5397.36	49.07	-24.93	74	39.8	31.88	10.87	33.48	221	98	P	V
		5469.52	39.46	-14.54	54	30.17	31.96	10.81	33.48	221	98	A	V
	*	5580	102.72	-	-	93.4	32.1	10.74	33.52	221	98	P	V
	*	5580	94.17	-	-	84.85	32.1	10.74	33.52	221	98	A	V
		5757.24	48.01	-25.99	74	38.6	32.36	10.63	33.58	221	98	P	V
		5756.68	39.59	-14.41	54	30.18	32.36	10.63	33.58	221	98	A	V



802.11n HT20 CH 140 5700MHz	*	5700	103.11	-	-	93.73	32.27	10.67	33.56	184	117	P	H
	*	5700	95.96	-	-	86.58	32.27	10.67	33.56	184	117	A	H
		5729.08	58.51	-15.49	74	49.12	32.31	10.65	33.57	184	117	P	H
		5725.24	48.03	-5.97	54	38.64	32.31	10.65	33.57	184	117	A	H
													H
													H
	*	5700	99.61	-	-	90.23	32.27	10.67	33.56	262	91	P	V
	*	5700	92.74	-	-	83.36	32.27	10.67	33.56	262	91	A	V
		5731.4	59.17	-14.83	74	49.78	32.31	10.65	33.57	262	91	P	V
		5725.16	45.8	-8.2	54	36.41	32.31	10.65	33.57	262	91	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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 100 5500MHz		11000	53.56	-20.44	74	64.99	40.3	15.27	67	100	102	P	H
		11000	45.38	-8.62	54	56.81	40.3	15.27	67	100	102	A	H
		16500	48.35	-25.65	74	55.16	38.9	18.29	64	100	0	P	H
													H
		11000	50.27	-23.73	74	61.7	40.3	15.27	67	100	0	P	V
		16500	44.06	-29.94	74	50.87	38.9	18.29	64	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	54.99	-19.01	74	66.01	40.17	15.38	66.57	229	104	P	H
		11160	44.95	-9.05	54	55.97	40.17	15.38	66.57	229	104	A	H
		16740	43.28	-30.72	74	49.21	39.58	18.39	63.9	100	0	P	H
													H
		11160	51.34	-22.66	74	62.36	40.17	15.38	66.57	178	186	P	V
		11160	42.9	-11.1	54	53.92	40.17	15.38	66.57	178	186	A	V
		16740	40.46	-33.54	74	46.39	39.58	18.39	63.9	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	52.96	-21.04	74	63.41	39.98	15.53	65.96	381	320	P	H
		11400	44.46	-9.54	54	54.91	39.98	15.53	65.96	381	320	A	H
		17100	42.53	-31.47	74	47.32	40.6	18.53	63.92	100	0	P	H
													H
		11400	49.45	-24.55	74	59.9	39.98	15.53	65.96	100	0	P	V
		17100	41.98	-32.02	74	46.77	40.6	18.53	63.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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 102 5510MHz		5458.8	57.81	-16.19	74	48.51	31.94	10.84	33.48	100	117	P	H
		5469.52	62.1	-6.2	68.3	52.81	31.96	10.81	33.48	100	117	P	H
		5459.78	51.06	-2.94	54	41.76	31.94	10.84	33.48	100	117	A	H
	*	5510	101	-	-	91.72	32	10.77	33.49	100	117	P	H
	*	5510	92.9	-	-	83.62	32	10.77	33.49	100	117	A	H
		5743.4	47.31	-20.99	68.3	37.91	32.34	10.63	33.57	100	117	P	H
		5457.2	54.61	-19.39	74	45.31	31.94	10.84	33.48	223	153	P	V
		5470	57.34	-10.96	68.3	48.05	31.96	10.81	33.48	223	153	P	V
		5458.68	45	-9	54	35.7	31.94	10.84	33.48	223	153	A	V
	*	5510	94.79	-	-	85.51	32	10.77	33.49	223	153	P	V
	*	5510	86.41	-	-	77.13	32	10.77	33.49	223	153	A	V
		5750.6	47.95	-20.35	68.3	38.55	32.34	10.63	33.57	223	153	P	V
802.11n HT40 CH 110 5550MHz		5454	53.37	-20.63	74	44.07	31.94	10.84	33.48	100	117	P	H
		5461.84	42.78	-11.22	54	33.51	31.94	10.81	33.48	100	117	A	H
	*	5550	101.06	-	-	91.75	32.07	10.74	33.5	100	117	P	H
	*	5550	93.77	-	-	84.46	32.07	10.74	33.5	100	117	A	H
		5737.88	49.06	-24.94	74	39.64	32.34	10.65	33.57	100	117	P	H
		5763.4	39.91	-14.09	54	30.5	32.36	10.63	33.58	100	117	A	H
		5448.88	48.02	-25.98	74	38.72	31.94	10.84	33.48	179	153	P	V
		5468.24	40.71	-13.29	54	31.42	31.96	10.81	33.48	179	153	A	V
	*	5550	95.16	-	-	85.85	32.07	10.74	33.5	179	153	P	V
	*	5550	88.06	-	-	78.75	32.07	10.74	33.5	179	153	A	V
		5763.24	47.6	-26.4	74	38.19	32.36	10.63	33.58	179	153	P	V
		5750.84	40.16	-13.84	54	30.76	32.34	10.63	33.57	179	153	A	V



802.11n HT40 CH 134 5670MHz		5428.88	47.43	-26.57	74	38.15	31.92	10.84	33.48	100	117	P	H
		5458.8	39.98	-14.02	54	30.68	31.94	10.84	33.48	100	117	A	H
	*	5670	100.78	-	-	91.42	32.24	10.67	33.55	100	117	P	H
	*	5670	92.49	-	-	83.13	32.24	10.67	33.55	100	117	A	H
		5728.12	54.52	-19.48	74	45.13	32.31	10.65	33.57	100	117	P	H
		5725.08	47.99	-6.01	54	38.6	32.31	10.65	33.57	100	117	A	H
		5470	48.24	-25.76	74	38.95	31.96	10.81	33.48	173	150	P	V
		5464.56	40.18	-13.82	54	30.89	31.96	10.81	33.48	173	150	A	V
	*	5670	93.85	-	-	84.49	32.24	10.67	33.55	173	150	P	V
	*	5670	87.06	-	-	77.7	32.24	10.67	33.55	173	150	A	V
		5725.4	49.68	-24.32	74	40.29	32.31	10.65	33.57	173	150	P	V
		5725	42.73	-11.27	54	33.34	32.31	10.65	33.57	173	150	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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 102 5510MHz		11020	49.89	-24.11	74	61.29	40.29	15.27	66.96	100	0	P	H
		16530	39.69	-28.61	68.3	46.37	39	18.31	63.99	100	0	P	H
													H
													H
		11020	47.77	-26.23	74	59.17	40.29	15.27	66.96	100	0	P	V
		16530	38.74	-29.56	68.3	45.42	39	18.31	63.99	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	49.18	-24.82	74	60.37	40.22	15.33	66.74	100	0	P	H
		16650	41.56	-32.44	74	47.81	39.33	18.36	63.94	100	0	P	H
													H
													H
		11100	47.81	-26.19	74	59	40.22	15.33	66.74	100	0	P	V
		16650	39.85	-34.15	74	46.1	39.33	18.36	63.94	100	0	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	48.99	-25.01	74	59.61	40.03	15.48	66.13	100	0	P	H
		17010	41.75	-32.25	74	46.72	40.35	18.5	63.82	100	0	P	H
													H
													H
		11340	47.83	-26.17	74	58.45	40.03	15.48	66.13	100	0	P	V
		17010	40.77	-33.23	74	45.74	40.35	18.5	63.82	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 100 5500MHz		5459.92	54.64	-19.36	74	45.34	31.94	10.84	33.48	100	117	P	H
		5464.4	61.73	-6.57	68.3	52.44	31.96	10.81	33.48	100	117	P	H
		5457.8	49.11	-4.89	54	39.81	31.94	10.84	33.48	100	117	A	H
	*	5500	107.83	-	-	98.5	32	10.81	33.48	100	117	P	H
	*	5500	100.64	-	-	91.31	32	10.81	33.48	100	117	A	H
													H
		5457.84	49.68	-24.32	74	40.38	31.94	10.84	33.48	195	154	P	V
		5469.2	54.95	-13.35	68.3	45.66	31.96	10.81	33.48	195	154	P	V
		5455.93	44.31	-9.69	54	35.01	31.94	10.84	33.48	195	154	A	V
	*	5500	101.63	-	-	92.3	32	10.81	33.48	195	154	P	V
	*	5500	94.2	-	-	84.87	32	10.81	33.48	195	154	A	V
													V
802.11ac VHT20 CH 116 5580MHz		5406.48	48.32	-25.68	74	39.05	31.88	10.87	33.48	100	112	P	H
		5458	40.24	-13.76	54	30.94	31.94	10.84	33.48	100	112	A	H
	*	5580	107.69	-	-	98.37	32.1	10.74	33.52	100	112	P	H
	*	5580	100.58	-	-	91.26	32.1	10.74	33.52	100	112	A	H
		5764.92	48.02	-25.98	74	38.61	32.36	10.63	33.58	100	112	P	H
		5743	40.14	-13.86	54	30.74	32.34	10.63	33.57	100	112	A	H
		5436.72	47.77	-26.23	74	38.49	31.92	10.84	33.48	190	156	P	V
		5462.8	39.83	-14.17	54	30.54	31.96	10.81	33.48	190	156	A	V
	*	5580	100.23	-	-	90.91	32.1	10.74	33.52	190	156	P	V
	*	5580	93.62	-	-	84.3	32.1	10.74	33.52	190	156	A	V
		5747.56	48.07	-25.93	74	38.67	32.34	10.63	33.57	190	156	P	V
		5763.8	40.1	-13.9	54	30.69	32.36	10.63	33.58	190	156	A	V



802.11ac VHT20 CH 140 5700MHz	*	5700	104.8	-	-	95.42	32.27	10.67	33.56	100	116	P	H
	*	5700	97.76	-	-	88.38	32.27	10.67	33.56	100	116	A	H
		5736.92	61.21	-12.79	74	51.79	32.34	10.65	33.57	100	116	P	H
		5725.64	50.82	-3.18	54	41.43	32.31	10.65	33.57	100	116	A	H
													H
													H
	*	5700	99.27	-	-	89.89	32.27	10.67	33.56	212	155	P	V
	*	5700	91.27	-	-	81.89	32.27	10.67	33.56	212	155	A	V
		5733.88	54.05	-19.95	74	44.66	32.31	10.65	33.57	212	155	P	V
		5725	44.05	-9.95	54	34.66	32.31	10.65	33.57	212	155	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 100 5500MHz		11000	50.71	-23.29	74	62.14	40.3	15.27	67	100	0	P	H
		16500	40.3	-28	68.3	47.11	38.9	18.29	64	100	0	P	H
													H
													H
		11000	49.63	-24.37	74	61.06	40.3	15.27	67	100	0	P	V
		16500	37.86	-30.44	68.3	44.67	38.9	18.29	64	100	0	P	V
													V
													V
802.11ac VHT20 CH 116 5580MHz		11160	49.85	-24.15	74	60.87	40.17	15.38	66.57	100	0	P	H
		16740	38.89	-35.11	74	44.82	39.58	18.39	63.9	100	0	P	H
													H
													H
		11160	48.48	-25.52	74	59.5	40.17	15.38	66.57	100	0	P	V
		16740	40.6	-33.4	74	46.53	39.58	18.39	63.9	100	0	P	V
													V
													V
802.11ac VHT20 CH 140 5700MHz		11400	49.7	-24.3	74	60.15	39.98	15.53	65.96	100	0	P	H
		17100	41.17	-32.83	74	45.96	40.6	18.53	63.92	100	0	P	H
													H
													H
		11400	48.43	-25.57	74	58.88	39.98	15.53	65.96	100	0	P	V
		17100	40.98	-33.02	74	45.77	40.6	18.53	63.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 102 5510MHz		5457.2	57.94	-16.06	74	48.64	31.94	10.84	33.48	100	116	P	H
		5469.36	61.78	-6.52	68.3	52.49	31.96	10.81	33.48	100	116	P	H
		5459.89	50.33	-3.67	54	41.03	31.94	10.84	33.48	100	116	A	H
	*	5510	102.03	-	-	92.75	32	10.77	33.49	100	116	P	H
	*	5510	94.09	-	-	84.81	32	10.77	33.49	100	116	A	H
		5751.64	48.21	-20.09	68.3	38.79	32.36	10.63	33.57	100	116	P	H
		5459.44	52.2	-21.8	74	42.9	31.94	10.84	33.48	190	155	P	V
		5468.56	58.47	-9.83	68.3	49.18	31.96	10.81	33.48	190	155	P	V
		5459.12	44.94	-9.06	54	35.64	31.94	10.84	33.48	190	155	A	V
	*	5510	95.13	-	-	85.85	32	10.77	33.49	190	155	P	V
	*	5510	87.52	-	-	78.24	32	10.77	33.49	190	155	A	V
		5739.56	47.83	-20.47	68.3	38.41	32.34	10.65	33.57	190	155	P	V
802.11ac VHT40 CH 110 5550MHz		5434.48	51.62	-22.38	74	42.34	31.92	10.84	33.48	100	117	P	H
		5468.24	42.72	-11.28	54	33.43	31.96	10.81	33.48	100	117	A	H
	*	5550	102.85	-	-	93.54	32.07	10.74	33.5	100	117	P	H
	*	5550	94.95	-	-	85.64	32.07	10.74	33.5	100	117	A	H
		5757.96	47.7	-26.3	74	38.29	32.36	10.63	33.58	100	117	P	H
		5731.88	40.14	-13.86	54	30.75	32.31	10.65	33.57	100	117	A	H
		5463.28	51.05	-22.95	74	41.76	31.96	10.81	33.48	184	159	P	V
		5461.36	40.52	-13.48	54	31.25	31.94	10.81	33.48	184	159	A	V
	*	5550	96.02	-	-	86.71	32.07	10.74	33.5	184	159	P	V
	*	5550	88.12	-	-	78.81	32.07	10.74	33.5	184	159	A	V
		5742.04	47.37	-26.63	74	37.97	32.34	10.63	33.57	184	159	P	V
		5761.8	40.09	-13.91	54	30.68	32.36	10.63	33.58	184	159	A	V



802.11ac VHT40 CH 134 5670MHz		5454.32	47.33	-26.67	74	38.03	31.94	10.84	33.48	100	114	P	H
		5465.84	40.26	-13.74	54	30.97	31.96	10.81	33.48	100	114	A	H
	*	5670	100.58	-	-	91.22	32.24	10.67	33.55	100	114	P	H
	*	5670	93	-	-	83.64	32.24	10.67	33.55	100	114	A	H
		5726.36	54.59	-19.41	74	45.2	32.31	10.65	33.57	100	114	P	H
		5725.48	47.62	-6.38	54	38.23	32.31	10.65	33.57	100	114	A	H
		5417.68	48.45	-25.55	74	39.16	31.9	10.87	33.48	203	161	P	V
		5462.8	39.92	-14.08	54	30.63	31.96	10.81	33.48	203	161	A	V
	*	5670	95.82	-	-	86.46	32.24	10.67	33.55	203	161	P	V
	*	5670	87.7	-	-	78.34	32.24	10.67	33.55	203	161	A	V
		5729.64	51.78	-22.22	74	42.39	32.31	10.65	33.57	203	161	P	V
		5725.32	43.06	-10.94	54	33.67	32.31	10.65	33.57	203	161	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 102 5510MHz		11020	47.55	-26.45	74	58.95	40.29	15.27	66.96	100	0	P	H
		16530	37.75	-36.25	74	44.43	39	18.31	63.99	100	0	P	H
													H
													H
		11020	45.85	-28.15	74	57.25	40.29	15.27	66.96	100	0	P	V
		16530	37.51	-36.49	74	44.19	39	18.31	63.99	100	0	P	V
													V
													V
802.11ac VHT40 CH 110 5550MHz		11100	48.27	-25.73	74	59.46	40.22	15.33	66.74	100	0	P	H
		16650	39.79	-34.21	74	46.04	39.33	18.36	63.94	100	0	P	H
													H
													H
		11100	45.65	-28.35	74	56.84	40.22	15.33	66.74	100	0	P	V
		16650	39.22	-34.78	74	45.47	39.33	18.36	63.94	100	0	P	V
													V
													V
802.11ac VHT40 CH 134 5670MHz		11340	48.39	-25.61	74	59.01	40.03	15.48	66.13	100	0	P	H
		17010	40.76	-33.24	74	45.73	40.35	18.5	63.82	100	0	P	H
													H
													H
		11340	46.59	-27.41	74	57.21	40.03	15.48	66.13	100	0	P	V
		17010	40.04	-33.96	74	45.01	40.35	18.5	63.82	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 106 5530MHz		5458.96	53.49	-20.51	74	44.19	31.94	10.84	33.48	100	117	P	H
		5469.36	46.59	-7.41	54	37.3	31.96	10.81	33.48	100	117	A	H
	*	5530	94.53	-	-	85.24	32.02	10.77	33.5	100	117	P	H
	*	5530	86.97	-	-	77.68	32.02	10.77	33.5	100	117	A	H
		5749.24	47.85	-26.15	74	38.45	32.34	10.63	33.57	100	117	P	H
		5749.16	39.96	-14.04	54	30.56	32.34	10.63	33.57	100	117	A	H
		5467.92	51.5	-22.5	74	42.21	31.96	10.81	33.48	204	86	P	V
		5469.2	43.25	-10.75	54	33.96	31.96	10.81	33.48	204	86	A	V
	*	5530	90.1	-	-	80.81	32.02	10.77	33.5	204	86	P	V
	*	5530	80.6	-	-	71.31	32.02	10.77	33.5	204	86	A	V
		5751.64	47.93	-26.07	74	38.51	32.36	10.63	33.57	204	86	P	V
		5753.96	39.87	-14.13	54	30.45	32.36	10.63	33.57	204	86	A	V
802.11ac VHT80 CH 122 5610MHz		5464.72	55.19	-18.81	74	45.9	31.96	10.81	33.48	100	116	P	H
		5467.76	48.03	-5.97	54	38.74	31.96	10.81	33.48	100	116	A	H
	*	5610	100.53	-	-	91.21	32.14	10.71	33.53	100	116	P	H
	*	5610	91.73	-	-	82.41	32.14	10.71	33.53	100	116	A	H
		5727.96	55.83	-18.17	74	46.44	32.31	10.65	33.57	100	116	P	H
		5725.88	48.36	-5.64	54	38.97	32.31	10.65	33.57	100	116	A	H
		5464.88	51.01	-22.99	74	41.72	31.96	10.81	33.48	162	157	P	V
		5466.96	42.95	-11.05	54	33.66	31.96	10.81	33.48	162	157	A	V
	*	5610	93.21	-	-	83.89	32.14	10.71	33.53	162	157	P	V
	*	5610	85.07	-	-	75.75	32.14	10.71	33.53	162	157	A	V
		5727.4	50.76	-23.24	74	41.37	32.31	10.65	33.57	162	157	P	V
		5729.16	43.62	-10.38	54	34.23	32.31	10.65	33.57	162	157	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 106 5530MHz		11060	42.15	-31.85	74	53.43	40.25	15.3	66.83	100	0	P	H
		16590	37.96	-36.04	74	44.45	39.14	18.34	63.97	100	0	P	H
													H
													H
		11060	41.62	-32.38	74	52.9	40.25	15.3	66.83	100	0	P	V
		16590	38.28	-35.72	74	44.77	39.14	18.34	63.97	100	0	P	V
													V
													V
802.11ac VHT80 CH 122 5610MHz		11220	46.46	-27.54	74	57.37	40.13	15.4	66.44	100	0	P	H
		16830	40.92	-33.08	74	46.53	39.82	18.44	63.87	100	0	P	H
													H
													H
		11220	44.46	-29.54	74	55.37	40.13	15.4	66.44	100	0	P	V
		16830	39.22	-34.78	74	44.83	39.82	18.44	63.87	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5720	102.61	-	-	93.22	32.31	10.65	33.57	100	117	P	H
	*	5720	96.4	-	-	87.01	32.31	10.65	33.57	100	117	A	H
													H
													H
													H
													H
	*	5720	100.18	-	-	90.79	32.31	10.65	33.57	272	95	P	V
	*	5720	91.87	-	-	82.48	32.31	10.65	33.57	272	95	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1+2	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 CH 144 5720MHz		11440	55.59	-18.41	74	65.95	39.95	15.56	65.87	278	28	P	H
		11440	44.78	-9.22	54	55.14	39.95	15.56	65.87	278	28	A	H
		17160	42.28	-31.72	74	46.91	40.8	18.57	64	100	0	P	H
													H
		11440	48.99	-25.01	74	59.35	39.95	15.56	65.87	100	0	P	V
		17160	41.32	-32.68	74	45.95	40.8	18.57	64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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 144 5720MHz	*	5720	104.25	-	-	94.86	32.31	10.65	33.57	100	114	P	H
	*	5720	96.93	-	-	87.54	32.31	10.65	33.57	100	114	A	H
													H
													H
													H
													H
	*	5720	100.88	-	-	91.49	32.31	10.65	33.57	259	105	P	V
	*	5720	93.27	-	-	83.88	32.31	10.65	33.57	259	105	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	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 144 5720MHz		11440	56.08	-17.92	74	66.44	39.95	15.56	65.87	365	323	P	H
		11440	44.71	-9.29	54	55.07	39.95	15.56	65.87	365	323	A	H
		17160	43.83	-30.17	74	48.46	40.8	18.57	64	100	0	P	H
													H
		11440	48.32	-25.68	74	58.68	39.95	15.56	65.87	100	0	P	V
		17160	40.79	-33.21	74	45.42	40.8	18.57	64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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 142 5710MHz	*	5710	99.09	-	-	89.72	32.29	10.65	33.57	100	116	P	H
	*	5710	92.25	-	-	82.88	32.29	10.65	33.57	100	116	A	H
													H
													H
													H
													H
	*	5710	96.19	-	-	86.82	32.29	10.65	33.57	224	111	P	V
	*	5710	89.36	-	-	79.99	32.29	10.65	33.57	224	111	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1+2	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 142 5710MHz		11420	47.34	-26.66	74	57.76	39.97	15.53	65.92	100	0	P	H
		17130	39.71	-34.29	74	44.42	40.7	18.55	63.96	100	0	P	H
													H
													H
		11420	45.9	-28.1	74	56.32	39.97	15.53	65.92	100	0	P	V
		17130	39.43	-34.57	74	44.14	40.7	18.55	63.96	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 144 5720MHz	*	5720	104.42	-	-	95.03	32.31	10.65	33.57	100	115	P	H
	*	5720	97.12	-	-	87.73	32.31	10.65	33.57	100	115	A	H
													H
													H
													H
													H
	*	5720	100.92	-	-	91.53	32.31	10.65	33.57	245	109	P	V
	*	5720	92.68	-	-	83.29	32.31	10.65	33.57	245	109	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11ac VHT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	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)
802.11ac VHT20 CH 144 5720MHz		11440	50.88	-23.12	74	61.24	39.95	15.56	65.87	100	0	P	H
		17160	41.15	-32.85	74	45.78	40.8	18.57	64	100	0	P	H
													H
													H
		11440	48.02	-25.98	74	58.38	39.95	15.56	65.87	100	0	P	V
		17160	39.87	-34.13	74	44.5	40.8	18.57	64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 142 5710MHz	*	5710	99.59	-	-	90.22	32.29	10.65	33.57	100	115	P	H
	*	5710	92.31	-	-	82.94	32.29	10.65	33.57	100	115	A	H
													H
													H
													H
													H
	*	5710	95.69	-	-	86.32	32.29	10.65	33.57	260	110	P	V
	*	5710	88.69	-	-	79.32	32.29	10.65	33.57	260	110	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11ac VHT40 (Harmonic @ 3m)**

WIFI Ant. 1+2	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)
802.11ac VHT40 CH 142 5710MHz		11420	47.68	-26.32	74	58.1	39.97	15.53	65.92	100	0	P	H
		17130	40.78	-33.22	74	45.49	40.7	18.55	63.96	100	0	P	H
													H
													H
		11420	46.44	-27.56	74	56.86	39.97	15.53	65.92	100	0	P	V
		17130	40.57	-33.43	74	45.28	40.7	18.55	63.96	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 138 5690MHz	*	5690	98.58	-	-	89.2	32.27	10.67	33.56	100	116	P	H
	*	5690	90.49	-	-	81.11	32.27	10.67	33.56	100	116	A	H
													H
													H
													H
													H
	*	5690	93.89	-	-	84.51	32.27	10.67	33.56	261	97	P	V
	*	5690	85.62	-	-	76.24	32.27	10.67	33.56	261	97	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ac VHT80 CH 138 5690MHz		11380	46.6	-27.4	74	57.1	39.99	15.51	66	100	0	P	H
		17070	39.41	-34.59	74	44.26	40.5	18.53	63.88	100	0	P	H
													H
													H
		11380	44.54	-29.46	74	55.04	39.99	15.51	66	100	0	P	V
		17070	39.57	-34.43	74	44.42	40.5	18.53	63.88	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		82.92	24.54	-15.46	40	41.1	14.06	1.17	31.79	-	-	P	H
		144.48	32.27	-11.23	43.5	44.7	17.67	1.68	31.78	200	160	P	H
		234.12	29.52	-16.48	46	42.09	17.22	1.98	31.77	-	-	P	H
		422.5	25.17	-20.83	46	30.49	22.82	3.68	31.82	-	-	P	H
		741	28.91	-17.09	46	29.76	27.52	3.62	31.99	-	-	P	H
		952.4	32.47	-13.53	46	29.01	30.59	3.89	31.02	-	-	P	H
													H
													H
													H
													H
													H
													H
		30.27	32.16	-7.84	40	37.36	25.7	0.93	31.83	100	76	P	V
		142.86	28.46	-15.04	43.5	40.8	17.76	1.68	31.78	-	-	P	V
		233.31	29.08	-16.92	46	41.65	17.22	1.98	31.77	-	-	P	V
		419	24.51	-21.49	46	31	22.75	2.58	31.82	-	-	P	V
		703.2	28.52	-17.48	46	30.26	26.76	3.54	32.04	-	-	P	V
		946.8	32.99	-13.01	46	29.64	30.52	3.89	31.06	-	-	P	V
													V
													V
													V
													V
													V
													V
													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	Peak or Average
H/V	Horizontal or Vertical



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+2		(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 C. Radiated Spurious Emission Plots

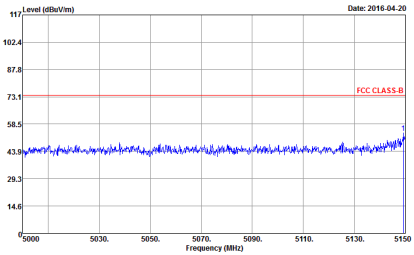
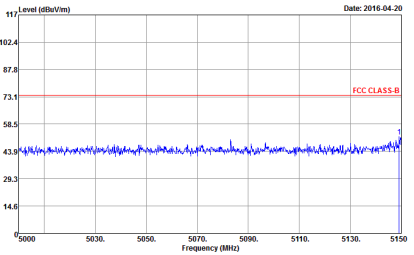
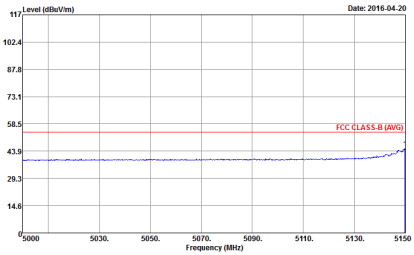
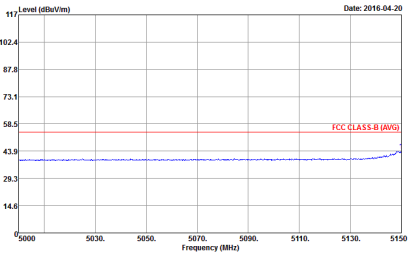
Test Engineer :	J.C. Liang, Bill Chang, and Ken Wu	Temperature :	19~21°C
		Relative Humidity :	50~55%

Note symbol

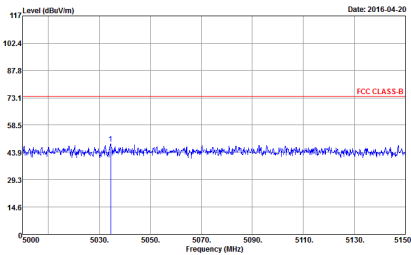
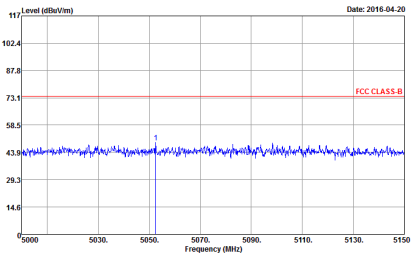
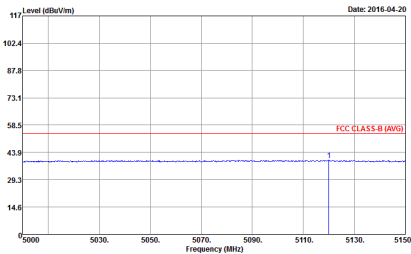
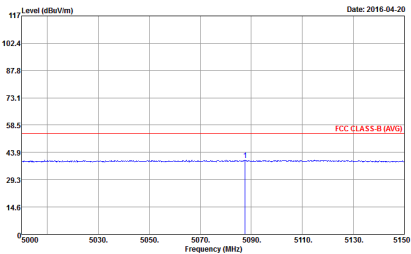
-L	Low channel location
-R	High channel location



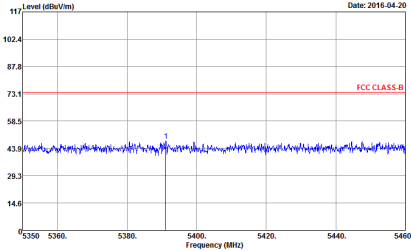
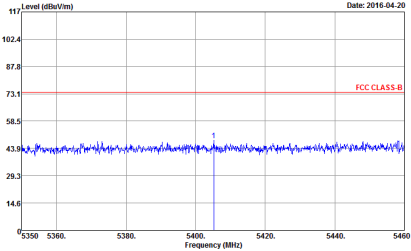
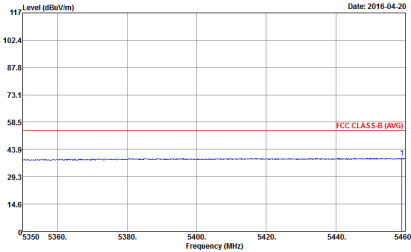
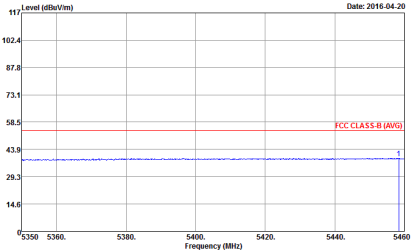
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 640145 Mode : 1	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 640145 Mode : 1
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 640145 Mode : 1	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 640145 Mode : 1

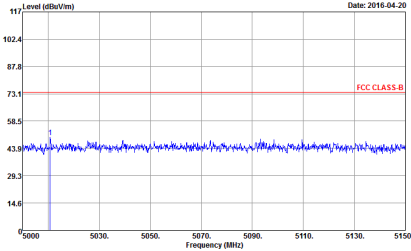
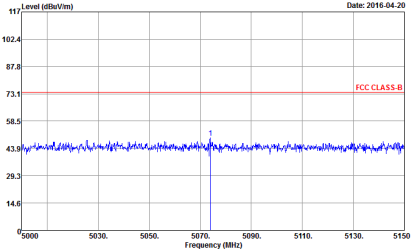
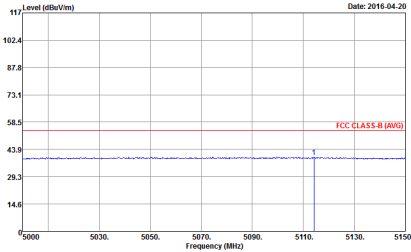
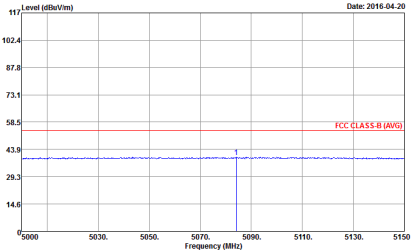


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Vertical
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2016-04-20 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 640145 Mode : 2	 Level (dBuV/m) Frequency (MHz) Date: 2016-04-20 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 640145 Mode : 2
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2016-04-20 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 640145 Mode : 2	 Level (dBuV/m) Frequency (MHz) Date: 2016-04-20 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 640145 Mode : 2

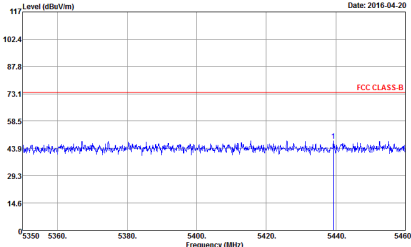
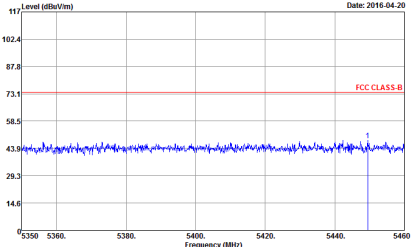
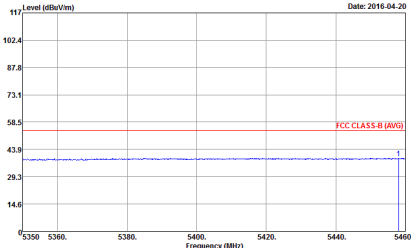
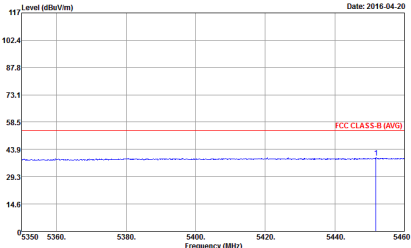


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2



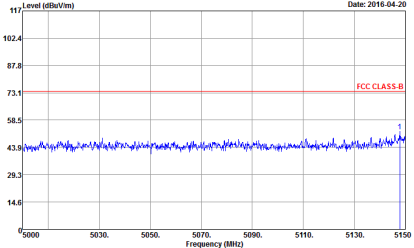
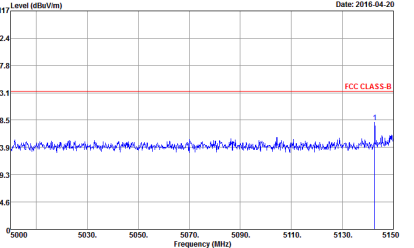
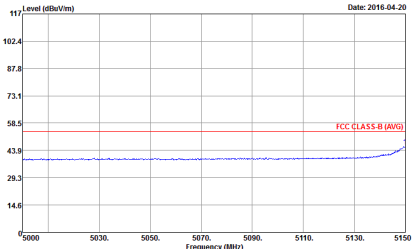
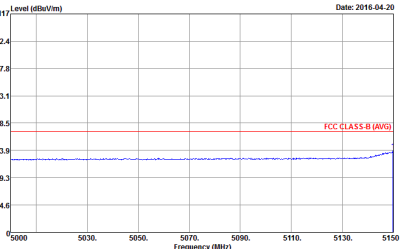
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3



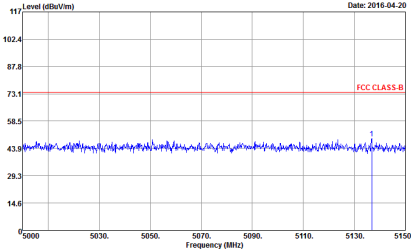
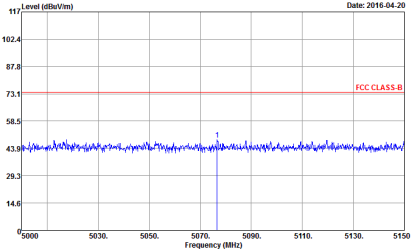
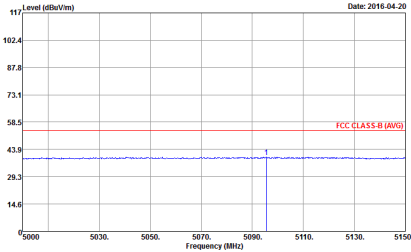
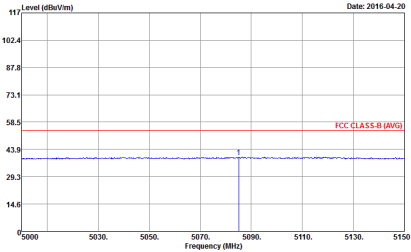
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 3



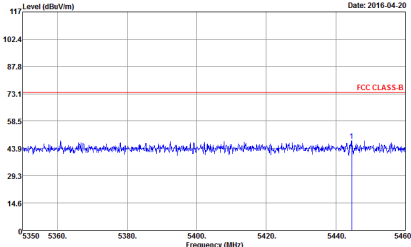
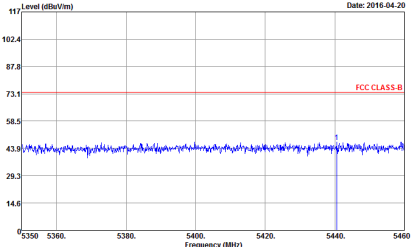
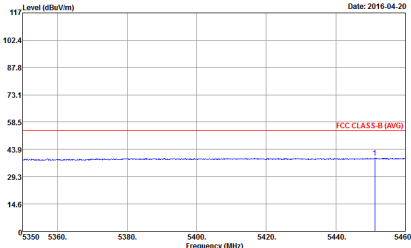
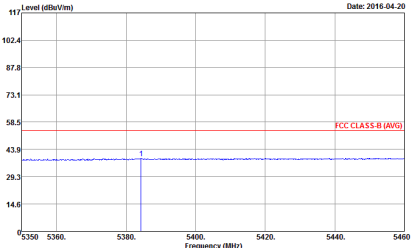
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 10	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 10
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 10	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 10

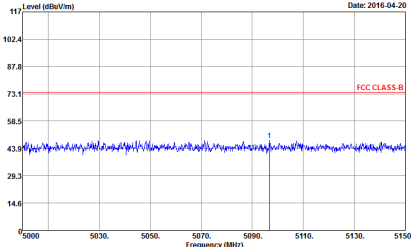
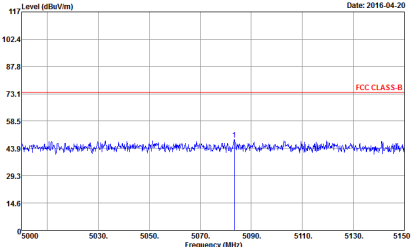
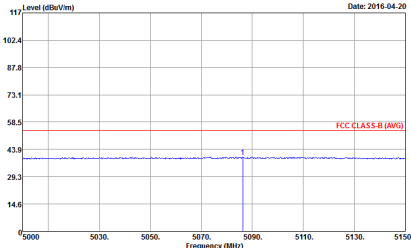
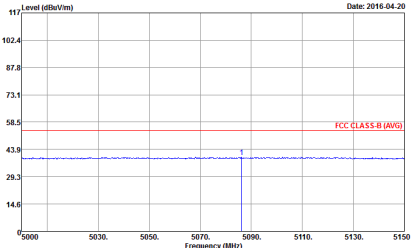


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II

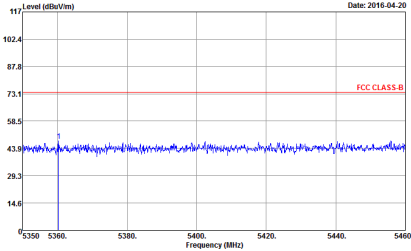
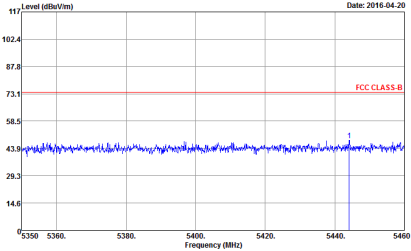
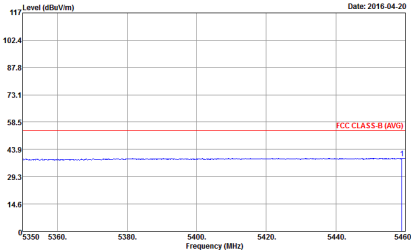
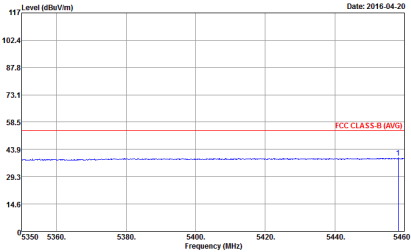


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : II



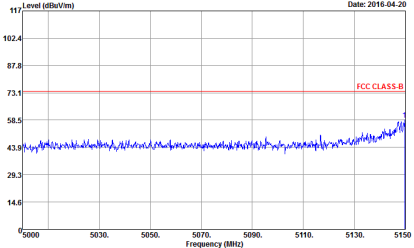
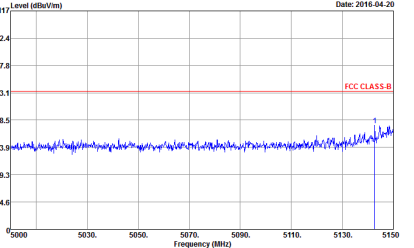
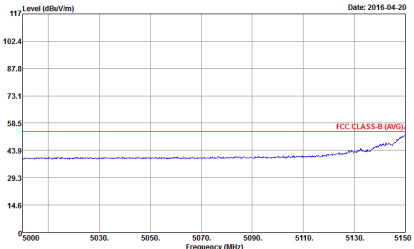
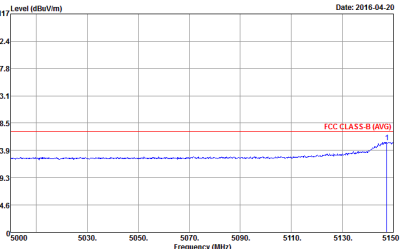
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12



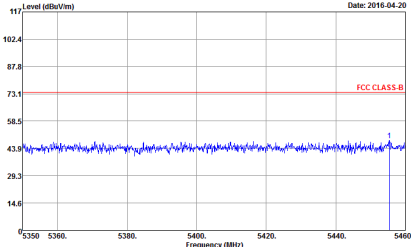
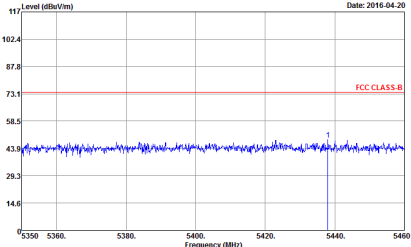
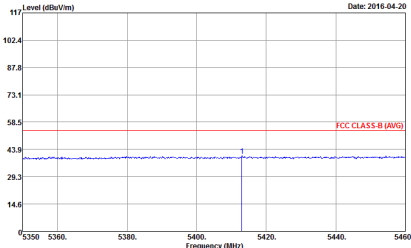
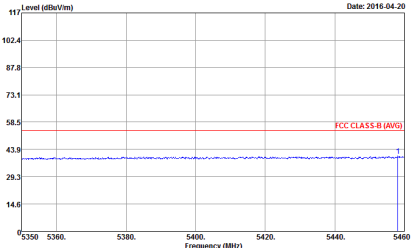
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 12



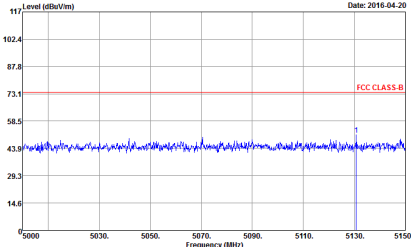
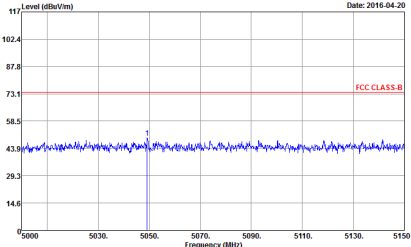
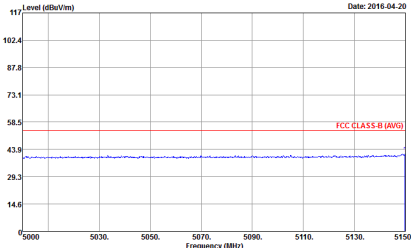
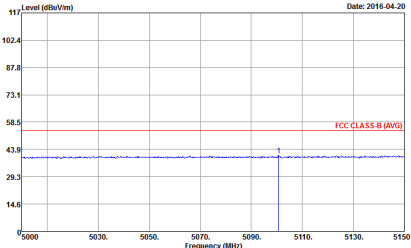
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14

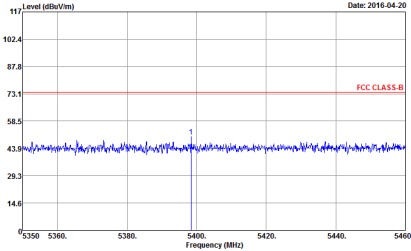
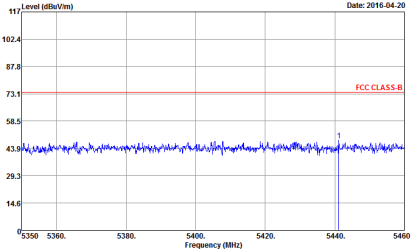
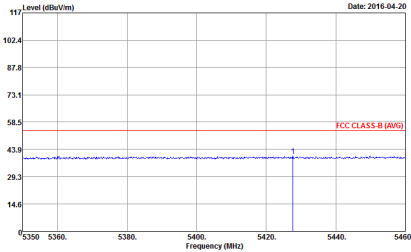
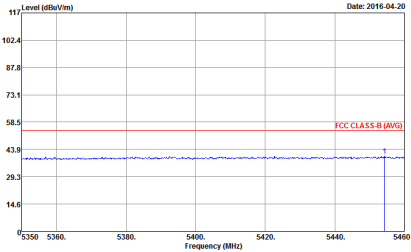


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 19 Setting : 14



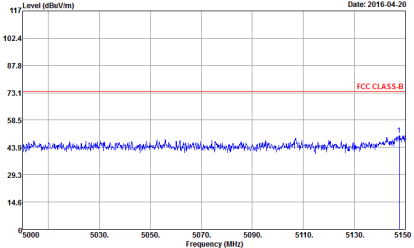
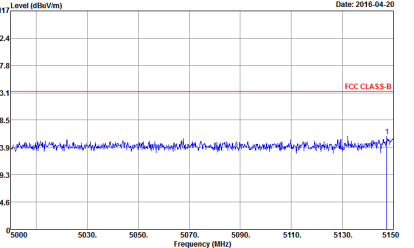
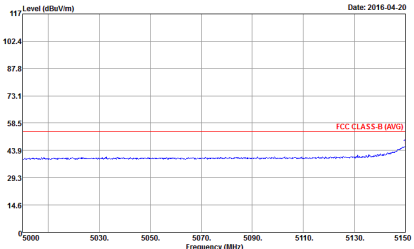
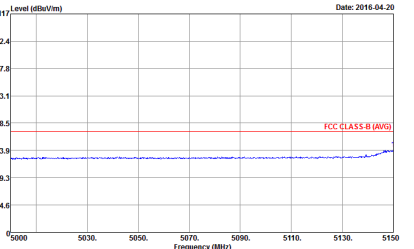
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20



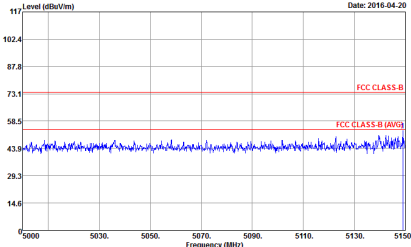
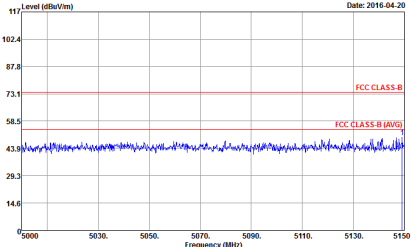
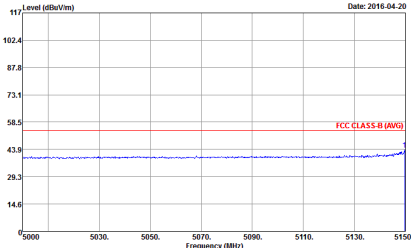
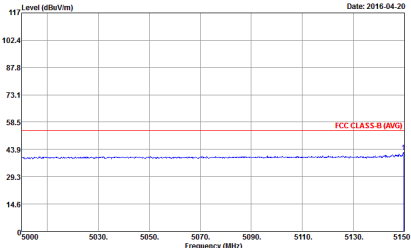
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 20



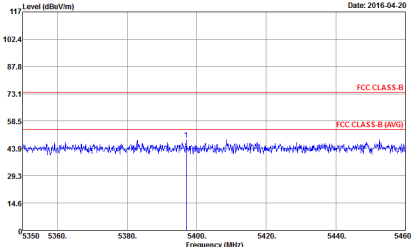
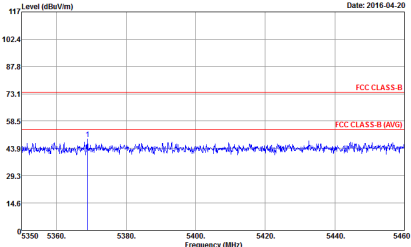
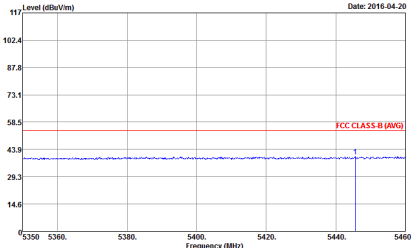
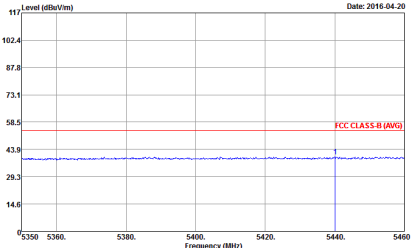
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 640145 Mode : 26	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 640145 Mode : 26
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 640145 Mode : 26	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 640145 Mode : 26

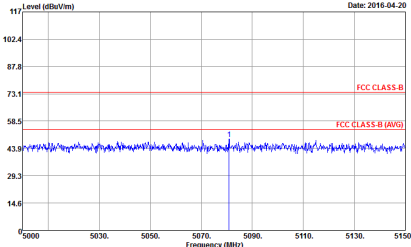
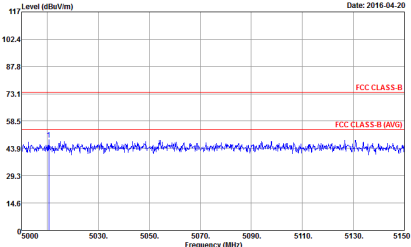
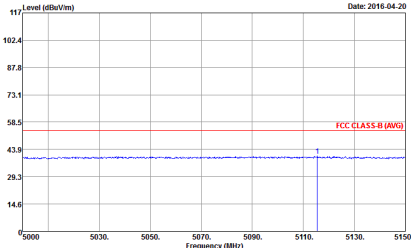
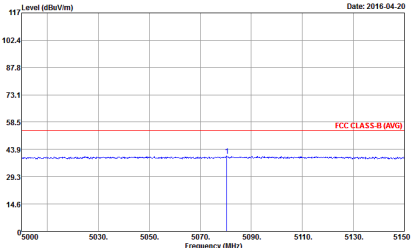


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Horizontal	Vertical
Peak	 Level (dBuV/m) Date: 2016-04-20 Frequency (MHz) Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27	 Level (dBuV/m) Date: 2016-04-20 Frequency (MHz) Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27
Avg.	 Level (dBuV/m) Date: 2016-04-20 Frequency (MHz) Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27	 Level (dBuV/m) Date: 2016-04-20 Frequency (MHz) Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27

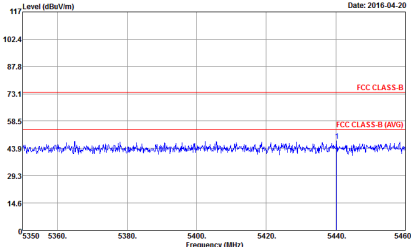
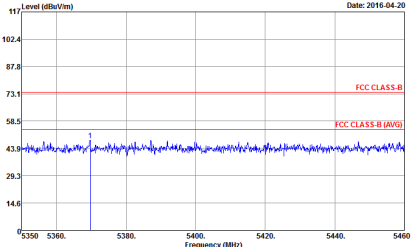
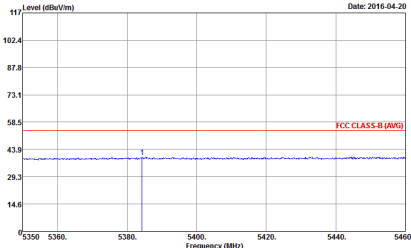
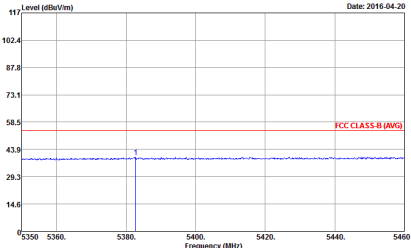


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 27



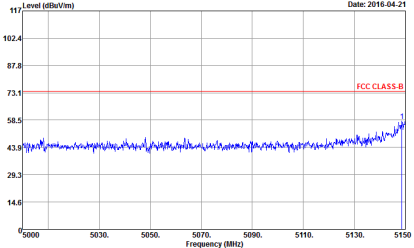
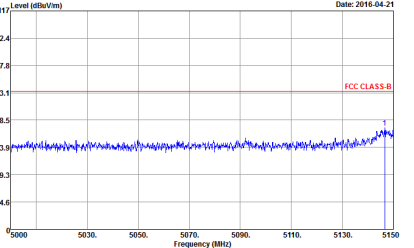
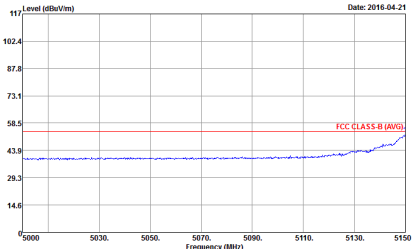
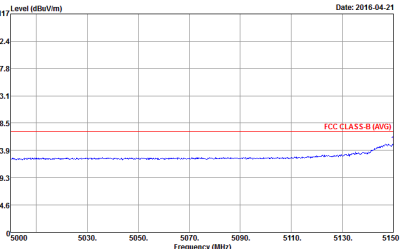
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2B	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2B
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2B	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 2B



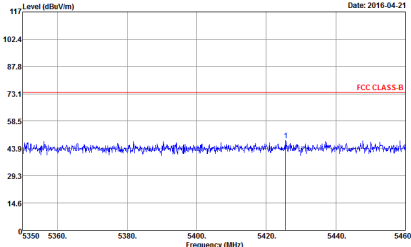
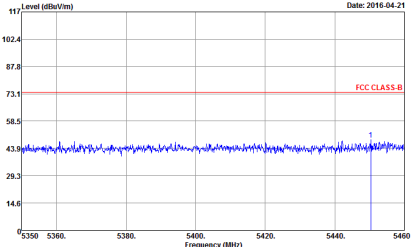
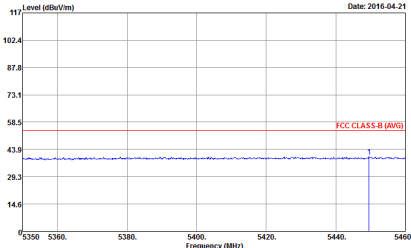
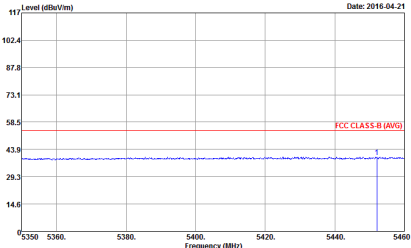
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : ZB	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : ZB
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : ZB	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : ZB



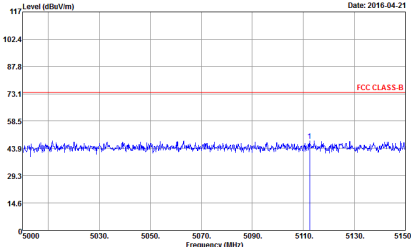
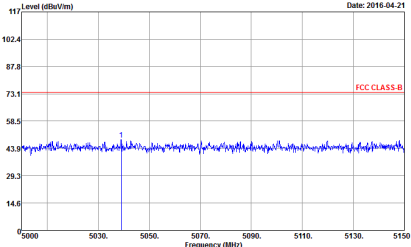
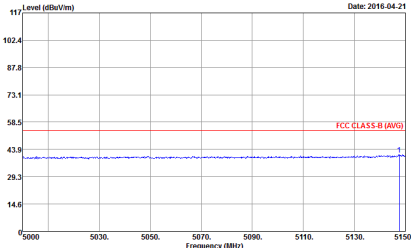
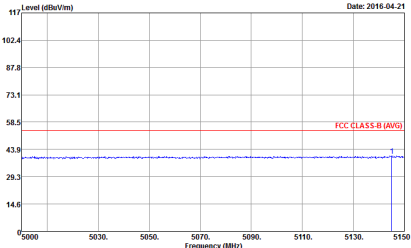
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Horizontal	Vertical
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit, peaking at approximately 58.5 dBuV/m near 5150 MHz. Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit, peaking at approximately 58.5 dBuV/m near 5150 MHz. Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit, peaking at approximately 58.5 dBuV/m near 5150 MHz. Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit, peaking at approximately 58.5 dBuV/m near 5150 MHz. Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35

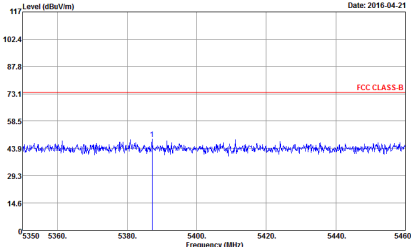
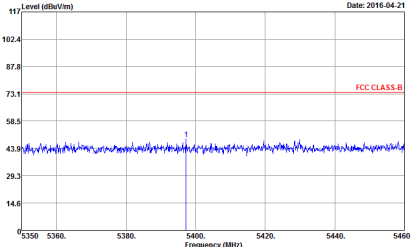
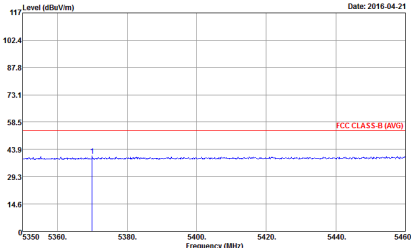
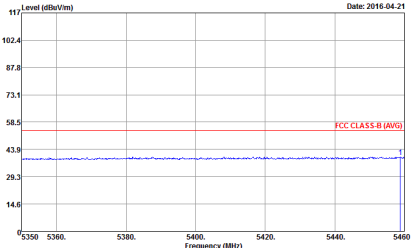


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 35



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640145 Mode : 36