



FCC RF Test Report

APPLICANT : Askey Computer Corp.
EQUIPMENT : Multi - Sensor Camera
BRAND NAME : Askey
MODEL NAME : QB-MSC-FXL
FCC ID : H8N-QBMSCFXL
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Dec. 11, 2015 and testing was completed on Jan. 26, 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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5D1117B	Rev. 01	Initial issue of report	Mar. 01, 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	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 1.02 dB at 5149.550 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 22.10 dB at 0.334 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

Askey Computer Corp.

10F, No. 119, Jiankang RD., Zhonghe Dist., New Taipei City 23585, Taiwan, R.O.C.

1.2 Manufacturer

Askey Technology (Jiangsu) Corporation

No. 1388, JiaoTong Road

Wujiang Economic-Technological Development Area

Wujiang, 215200

China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Multi - Sensor Camera
Brand Name	Askey
Model Name	QB-MS-C-FXL
FCC ID	H8N-QBMS-C-FXL
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80
HW Version	REV04
SW Version	0.1.o.111
EUT Stage	Identical Prototype

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



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz
Maximum Output Power	<p><5180 MHz ~ 5240 MHz> <Ant. 1> 802.11a : 17.83 dBm / 0.0607 W <Ant. 2> 802.11a : 17.81 dBm / 0.0604 W SISO <Ant. 1> 802.11n HT20 : 17.50 dBm / 0.0562 W 802.11n HT40 : 17.38 dBm / 0.0547 W 802.11ac VHT20: 17.47 dBm / 0.0558 W 802.11ac VHT40: 17.40 dBm / 0.0550 W 802.11ac VHT80: 11.87 dBm / 0.0154 W SISO <Ant. 2> 802.11n HT20 : 17.48 dBm / 0.0560 W 802.11n HT40 : 17.36 dBm / 0.0545 W 802.11ac VHT20: 17.38 dBm / 0.0547 W 802.11ac VHT40: 17.35 dBm / 0.0543 W 802.11ac VHT80: 11.73 dBm / 0.0149 W MIMO <Ant. 1 + 2> 802.11n HT20 : 17.32 dBm / 0.0540 W 802.11n HT40 : 17.36 dBm / 0.0545 W 802.11ac VHT20: 17.42 dBm / 0.0552 W 802.11ac VHT40: 17.30 dBm / 0.0537 W 802.11ac VHT80: 13.80 dBm / 0.0240 W</p> <p><5260 MHz ~ 5320 MHz> <Ant. 1> 802.11a : 17.90 dBm / 0.0617 W <Ant. 2> 802.11a : 17.89 dBm / 0.0615 W SISO <Ant. 1> 802.11n HT20 : 17.45 dBm / 0.0556 W 802.11n HT40 : 17.41 dBm / 0.0551 W 802.11ac VHT20: 17.38 dBm / 0.0547 W 802.11ac VHT40: 17.43 dBm / 0.0553 W 802.11ac VHT80: 12.56 dBm / 0.0180 W SISO <Ant. 2> 802.11n HT20 : 17.41 dBm / 0.0551 W 802.11n HT40 : 17.32 dBm / 0.0540 W 802.11ac VHT20: 17.37 dBm / 0.0546 W 802.11ac VHT40: 17.41 dBm / 0.0551 W 802.11ac VHT80: 11.98 dBm / 0.0158 W MIMO <Ant. 1 + 2> 802.11n HT20 : 17.27 dBm / 0.0533 W 802.11n HT40 : 17.34 dBm / 0.0542 W 802.11ac VHT20: 17.39 dBm / 0.0548 W 802.11ac VHT40: 17.31 dBm / 0.0538 W 802.11ac VHT80: 14.45 dBm / 0.0279 W</p>



Product Specification subjective to this standard													
Maximum Output Power	<p><5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz> <Ant. 1> 802.11a : 17.98 dBm / 0.0628 W <Ant. 2> 802.11a : 17.89 dBm / 0.0615 W SISO <Ant. 1> 802.11n HT20 : 17.43 dBm / 0.0553 W 802.11n HT40 : 17.25 dBm / 0.0531 W 802.11ac VHT20: 17.44 dBm / 0.0555 W 802.11ac VHT40: 17.35 dBm / 0.0543 W 802.11ac VHT80: 12.28 dBm / 0.0169 W SISO <Ant. 2> 802.11n HT20 : 17.42 dBm / 0.0552 W 802.11n HT40 : 17.35 dBm / 0.0543 W 802.11ac VHT20: 17.36 dBm / 0.0545 W 802.11ac VHT40: 17.33 dBm / 0.0541 W 802.11ac VHT80: 12.02 dBm / 0.0159 W MIMO <Ant. 1 + 2> 802.11n HT20 : 17.33 dBm / 0.0541 W 802.11n HT40 : 17.33 dBm / 0.0541 W 802.11ac VHT20: 17.38 dBm / 0.0547 W 802.11ac VHT40: 17.41 dBm / 0.0551 W 802.11ac VHT80: 13.65 dBm / 0.0232 W</p>												
99% Occupied Bandwidth	802.11a : 18.15 MHz 802.11n HT20 : 18.75 MHz 802.11n HT40 : 36.70 MHz 802.11ac VHT20 : 18.80 MHz 802.11ac VHT40 : 37.10 MHz 802.11ac VHT80 : 75.24 MHz												
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)												
Antenna Type	Ant. 1 : PCB Antenna Ant. 2 : PCB Antenna												
Antenna Gain	<p><5150 MHz ~ 5350 MHz> Ant. 1 : 5.20 dBi Ant. 2 : 3.60 dBi <5250 MHz ~ 5350 MHz> Ant. 1 : 5.00 dBi Ant. 2 : 3.60 dBi <5470 MHz ~ 5725 MHz> Ant. 1 : 4.70 dBi Ant. 2 : 3.50 dBi</p>												
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 a</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 n/ac SISO</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 n/ac MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 a	V	V	802.11 n/ac SISO	V	V	802.11 n/ac MIMO	V	V
	Ant. 1	Ant. 2											
802.11 a	V	V											
802.11 n/ac SISO	V	V											
802.11 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 v01r01
- ♦ 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 (Y plane for Ant. 1 and Ant. 1+2; Z Plane for Ant. 2) 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)
5470-5600 MHz and 5650-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102	5510	116	5580
	104	5520	132	5660
	106	5530	134	5670
	108	5540	136	5680
	110	5550	140	5700

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.

<Ant. 1>

5GHz 802.11a mode Average Power (dBm)								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
<5150 MHz ~ 5250MHz>	17.83	17.54	16.00	16.03	15.35	15.06	15.35	15.04
<5250 MHz ~ 5350MHz>	17.90	17.68	16.37	16.25	15.50	15.22	15.35	15.43
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.98	17.87	16.44	16.32	15.41	15.47	15.29	15.39

<Ant. 2>

5GHz 802.11a mode Average Power (dBm)								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
<5150 MHz ~ 5250MHz>	17.81	17.80	16.48	16.12	15.28	15.05	15.43	15.46
<5250 MHz ~ 5350MHz>	17.89	17.57	16.27	16.26	15.41	15.12	15.26	15.42
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.89	17.50	16.16	16.15	15.17	15.25	15.27	15.24



SISO <Ant. 1>

5GHz 802.11n HT20 mode Average Power (dBm)								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
<5150 MHz ~ 5250MHz>	17.50	17.47	16.50	16.49	15.00	14.97	14.92	14.94
<5250 MHz ~ 5350MHz>	17.45	17.22	16.49	16.41	14.79	14.94	15.00	14.97
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.43	17.13	16.39	16.46	14.98	14.68	14.77	14.79

5GHz 802.11n HT40 mode Average Power (dBm)								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
<5150 MHz ~ 5250MHz>	17.38	16.32	15.35	15.53	13.98	14.14	13.86	14.08
<5250 MHz ~ 5350MHz>	17.41	17.17	15.51	15.68	14.51	14.55	14.69	14.61
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.25	17.11	15.53	15.81	14.67	14.46	15.12	14.71

5GHz 802.11ac VHT20 mode Average Power (dBm)									
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
<5150 MHz ~ 5250MHz>	17.47	17.33	16.01	16.02	14.87	14.53	14.50	14.52	14.46
<5250 MHz ~ 5350MHz>	17.38	17.11	16.34	16.43	14.80	14.94	14.95	14.67	14.20
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.44	17.28	16.34	16.04	14.62	14.52	14.71	14.65	14.03

5GHz 802.11ac VHT40 mode Average Power (dBm)										
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
<5150 MHz ~ 5250MHz>	17.40	17.26	16.28	16.44	14.73	14.24	14.56	14.60	14.67	14.25
<5250 MHz ~ 5350MHz>	17.43	17.17	16.26	16.40	14.64	14.31	14.41	14.55	14.61	14.24
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.35	17.18	16.13	16.27	14.67	14.65	14.82	15.00	14.47	14.50

5GHz 802.11ac VHT80 mode Average Power (dBm)										
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
<5150 MHz ~ 5250MHz>	11.87	11.50	10.84	10.45	9.52	9.39	8.70	9.43	8.81	9.44
<5250 MHz ~ 5350MHz>	12.56	12.48	11.26	11.33	10.26	10.18	10.10	10.45	10.06	9.88
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	12.28	12.18	11.05	11.06	9.95	9.84	9.77	10.09	9.76	9.23



SISO <Ant. 2>

5GHz 802.11n HT20 mode Average Power (dBm)								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
<5150 MHz ~ 5250MHz>	17.48	17.48	16.49	16.48	14.99	14.97	14.94	14.93
<5250 MHz ~ 5350MHz>	17.41	17.37	16.42	16.46	14.87	14.56	14.82	14.79
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.42	17.18	16.40	16.20	14.94	14.98	14.98	14.96

5GHz 802.11n HT40 mode Average Power (dBm)								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
<5150 MHz ~ 5250MHz>	17.36	17.12	16.25	16.00	14.56	14.64	14.61	14.84
<5250 MHz ~ 5350MHz>	17.32	16.99	16.20	15.88	14.37	14.44	14.30	14.52
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.35	17.09	16.49	16.33	14.50	14.53	14.66	14.81

5GHz 802.11ac VHT20 mode Average Power (dBm)									
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
<5150 MHz ~ 5250MHz>	17.38	17.23	16.44	16.50	14.80	14.93	14.88	14.83	14.41
<5250 MHz ~ 5350MHz>	17.37	17.27	16.15	16.48	14.74	14.62	14.79	14.96	14.36
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.36	17.05	16.14	16.46	14.99	14.80	14.56	14.75	14.20

5GHz 802.11ac VHT40 mode Average Power (dBm)										
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
<5150 MHz ~ 5250MHz>	17.35	17.27	16.09	15.88	15.26	14.85	15.03	14.93	14.55	14.60
<5250 MHz ~ 5350MHz>	17.41	16.95	15.65	15.63	14.39	14.59	14.79	14.79	14.33	14.45
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.33	17.15	16.43	16.08	14.60	14.51	14.74	14.75	14.26	14.38

5GHz 802.11ac VHT80 mode Average Power (dBm)										
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
<5150 MHz ~ 5250MHz>	11.73	11.57	10.79	10.77	9.55	9.13	9.41	9.29	9.27	9.34
<5250 MHz ~ 5350MHz>	11.98	11.82	11.28	11.26	9.70	10.30	9.84	9.86	9.63	9.72
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	12.02	11.85	11.29	11.20	9.78	10.32	9.88	9.89	9.58	9.76



MIMO <Ant. 1+2>

5GHz 802.11n HT20 mode Average Power (dBm)								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
<5150 MHz ~ 5250MHz>	17.32	17.03	16.04	16.12	14.97	14.53	14.58	14.55
<5250 MHz ~ 5350MHz>	17.27	17.22	16.39	16.20	14.68	14.99	14.70	14.76
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.33	17.19	16.29	16.36	14.52	14.90	14.76	14.67

5GHz 802.11n HT40 mode Average Power (dBm)								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
<5150 MHz ~ 5250MHz>	17.36	17.34	16.48	16.42	14.97	15.00	14.98	14.96
<5250 MHz ~ 5350MHz>	17.34	16.87	16.00	16.03	14.65	14.67	14.61	14.69
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.33	17.01	16.27	15.96	14.54	14.69	14.54	14.63

5GHz 802.11ac VHT20 mode Average Power (dBm)									
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
<5150 MHz ~ 5250MHz>	17.42	17.16	16.47	16.45	14.92	14.73	14.95	14.74	14.42
<5250 MHz ~ 5350MHz>	17.39	17.09	16.48	16.48	14.93	14.79	14.95	14.64	14.39
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.38	17.35	16.36	16.25	14.59	14.63	14.64	14.51	14.16

5GHz 802.11ac VHT40 mode Average Power (dBm)										
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
<5150 MHz ~ 5250MHz>	17.30	16.65	16.12	16.06	14.90	14.70	14.40	14.67	14.04	14.54
<5250 MHz ~ 5350MHz>	17.31	17.16	16.20	16.01	14.93	14.78	14.47	14.72	13.99	14.31
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	17.41	17.00	16.10	16.18	14.87	14.92	14.65	14.88	14.04	14.43

5GHz 802.11ac VHT80 mode Average Power (dBm)										
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
<5150 MHz ~ 5250MHz>	13.80	13.78	12.67	12.22	11.33	11.25	11.28	11.13	10.93	11.04
<5250 MHz ~ 5350MHz>	14.45	14.44	12.96	12.48	11.49	11.28	11.39	11.17	10.89	11.08
<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>	13.65	13.50	12.47	11.86	11.15	11.05	11.10	11.00	10.78	10.95

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
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

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



Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134



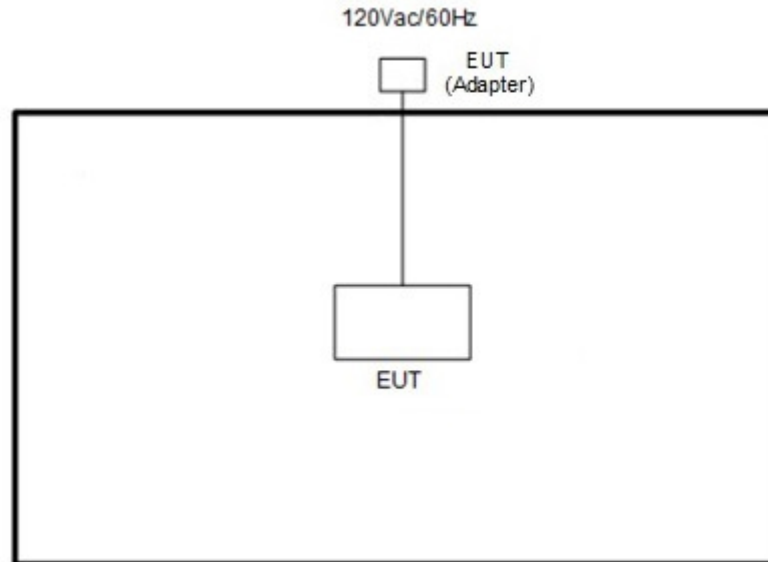
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

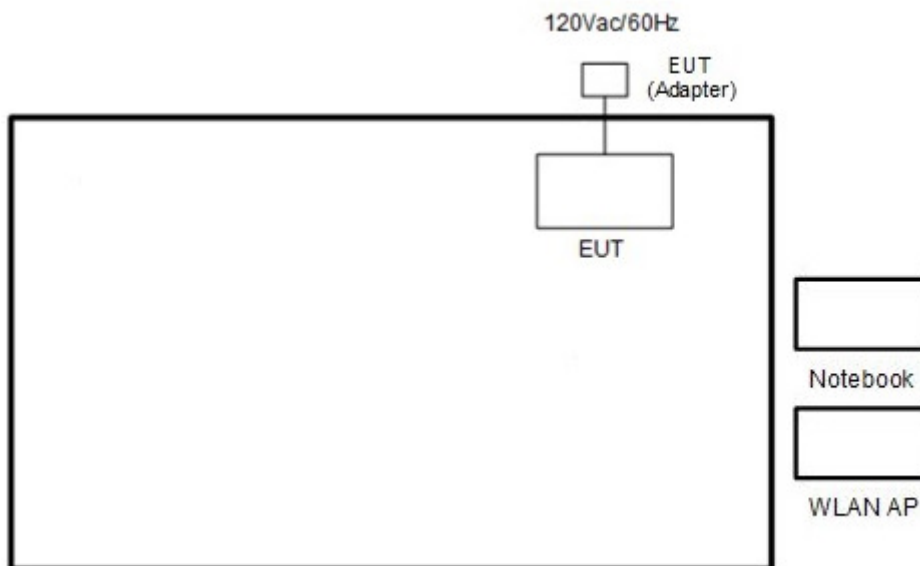
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	-
M	Middle	42	58	106
H	High	-	-	-

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.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	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

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, “putty.exe” installed in the notebook to 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.

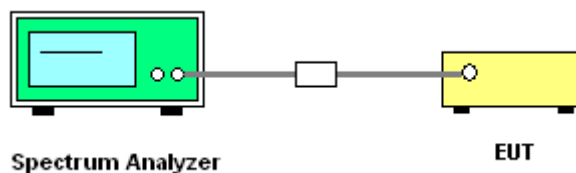
3.1.2 Measuring Instruments

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 v01r01.
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.

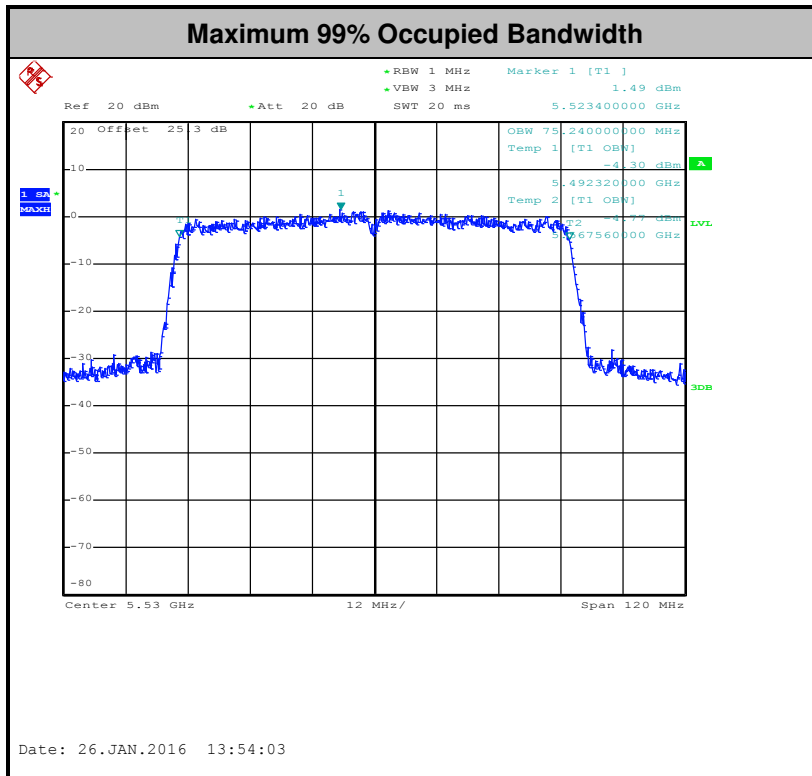
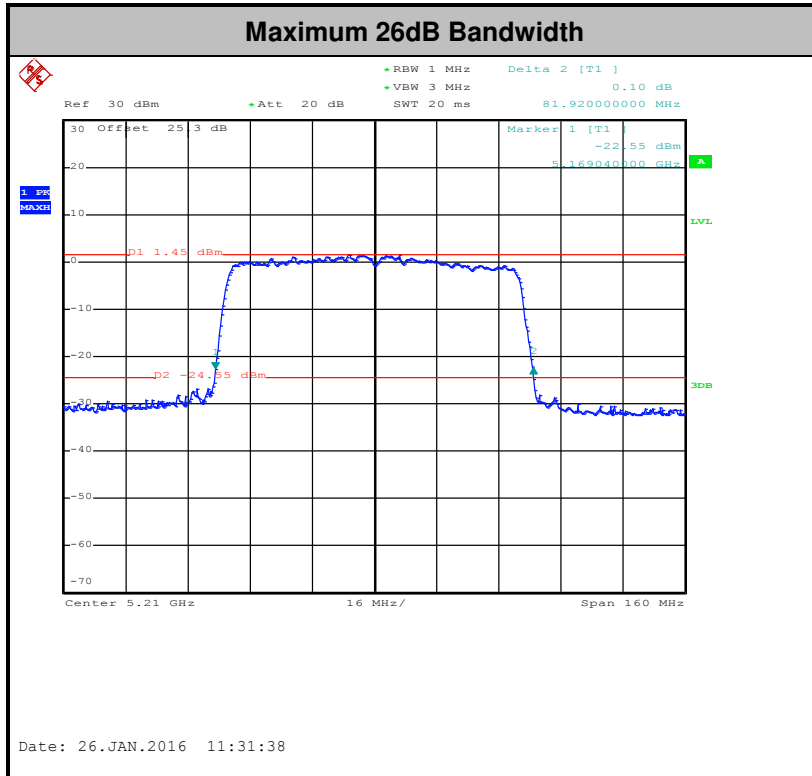
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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.

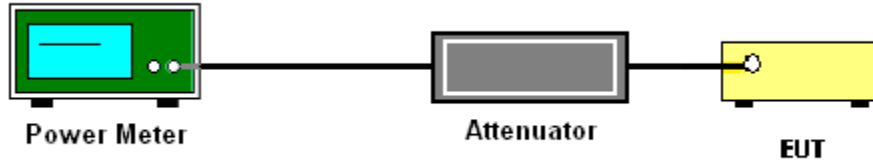
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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.

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 v01r01.

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).

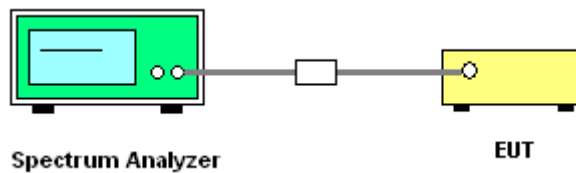
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - 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.

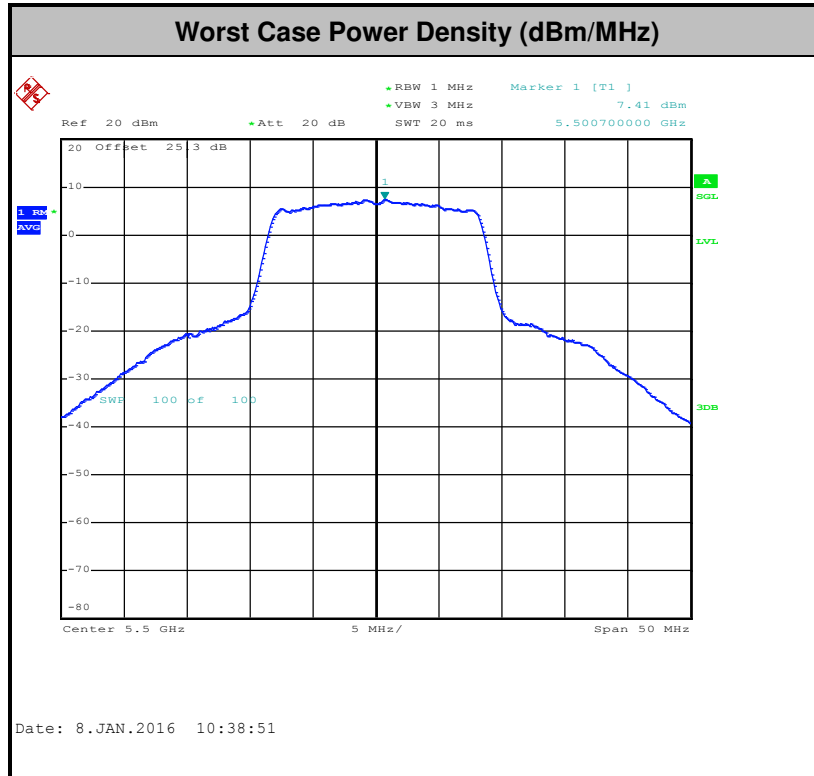
3.3.4 Test Setup





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 Part15.205.

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 5470-5600 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.

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

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

(3) KDB789033 D02 v01r01 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 KDB 789033 D02 General UNII Test Procedures New Rules v01r01. 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.

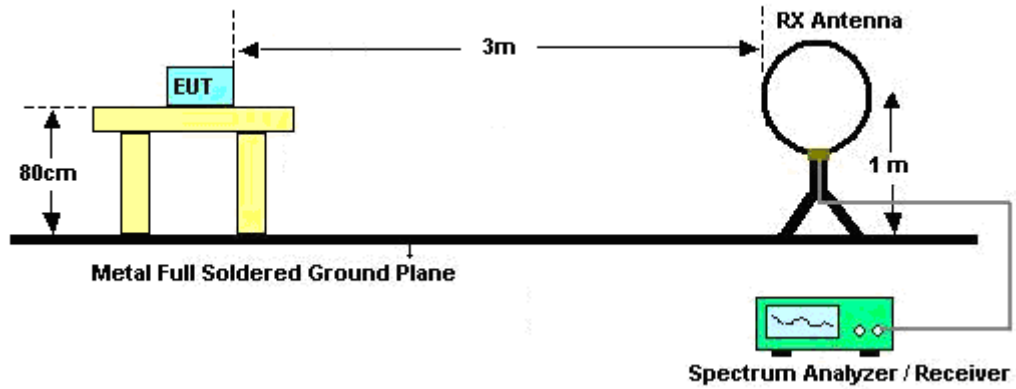


Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	87.27	1440	0.69	1kHz
1	5GHz 802.11n HT20	86.45	1340	0.75	1kHz
1	5GHz 802.11n HT40	75.58	650	1.54	3kHz
1	5GHz 802.11n VHT20	86.08	1360	0.74	1kHz
1	5GHz 802.11n VHT40	76.14	670	1.49	3kHz
1	5GHz 802.11n VHT80	61.48	332	3.01	10kHz
2	5GHz 802.11n VHT80	62.22	336	2.98	3kHz
1+2	5GHz 802.11n HT20 for Ant 1	76.4	680	1.47	3kHz
1+2	5GHz 802.11n HT20 for Ant 2	76.4	680	1.47	
1+2	5GHz 802.11n HT40 for Ant 1	62.77	344	2.91	
1+2	5GHz 802.11n HT40 for Ant 2	62.77	344	2.91	
1+2	5GHz 802.11n VHT20 for Ant 1	86.08	1360	0.74	1kHz
1+2	5GHz 802.11n VHT20 for Ant 2	86.62	1360	0.74	
1+2	5GHz 802.11n VHT40 for Ant 1	76.4	680	1.47	3kHz
1+2	5GHz 802.11n VHT40 for Ant 2	76.4	680	1.47	
1+2	5GHz 802.11n VHT80 for Ant 1	62.22	336	2.98	
1+2	5GHz 802.11n VHT80 for Ant 2	61.48	332	3.01	10kHz

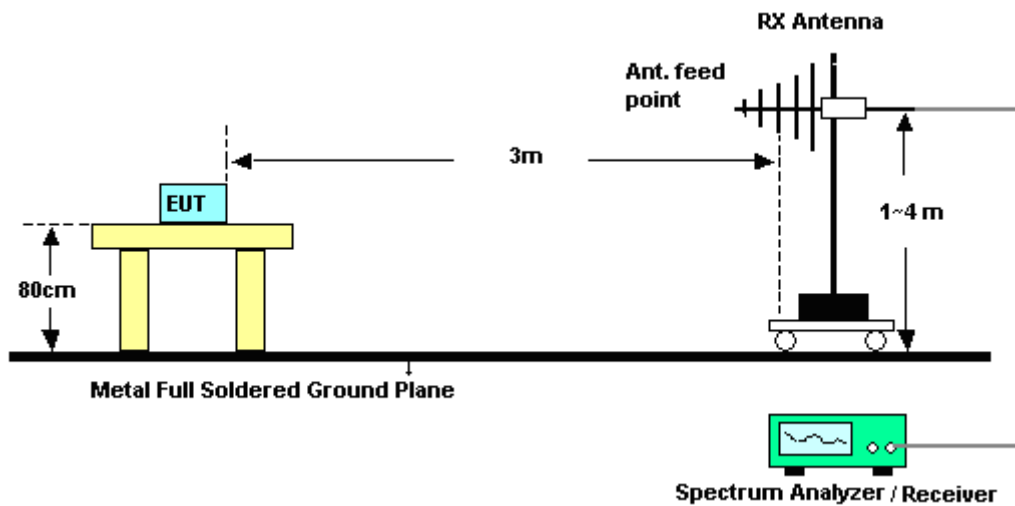
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The antenna is a broadband 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.
- 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.
- 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.
- 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

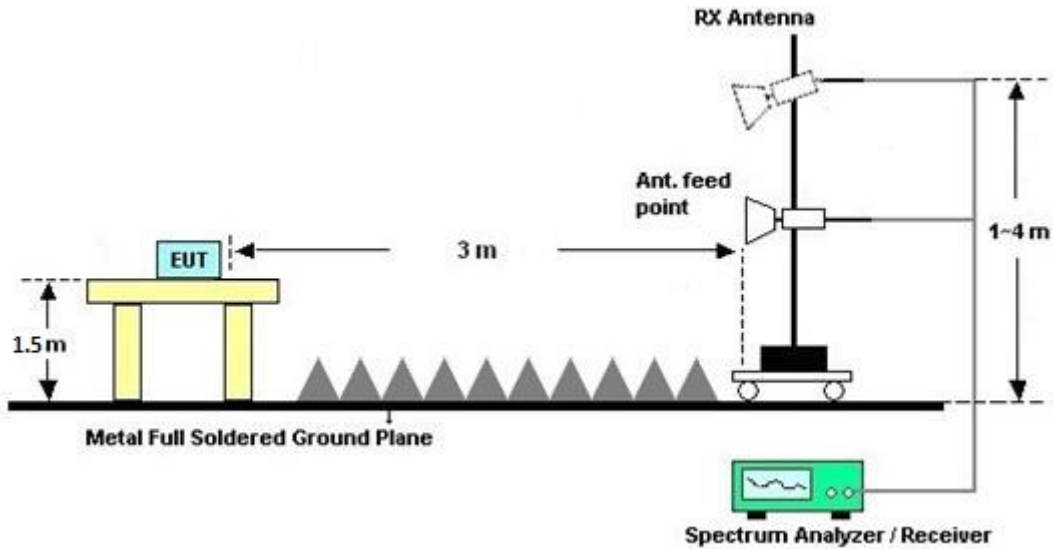
For radiated emissions below 30MHz



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 Appendix C.

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

Please refer to Appendix B and Appendix C.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

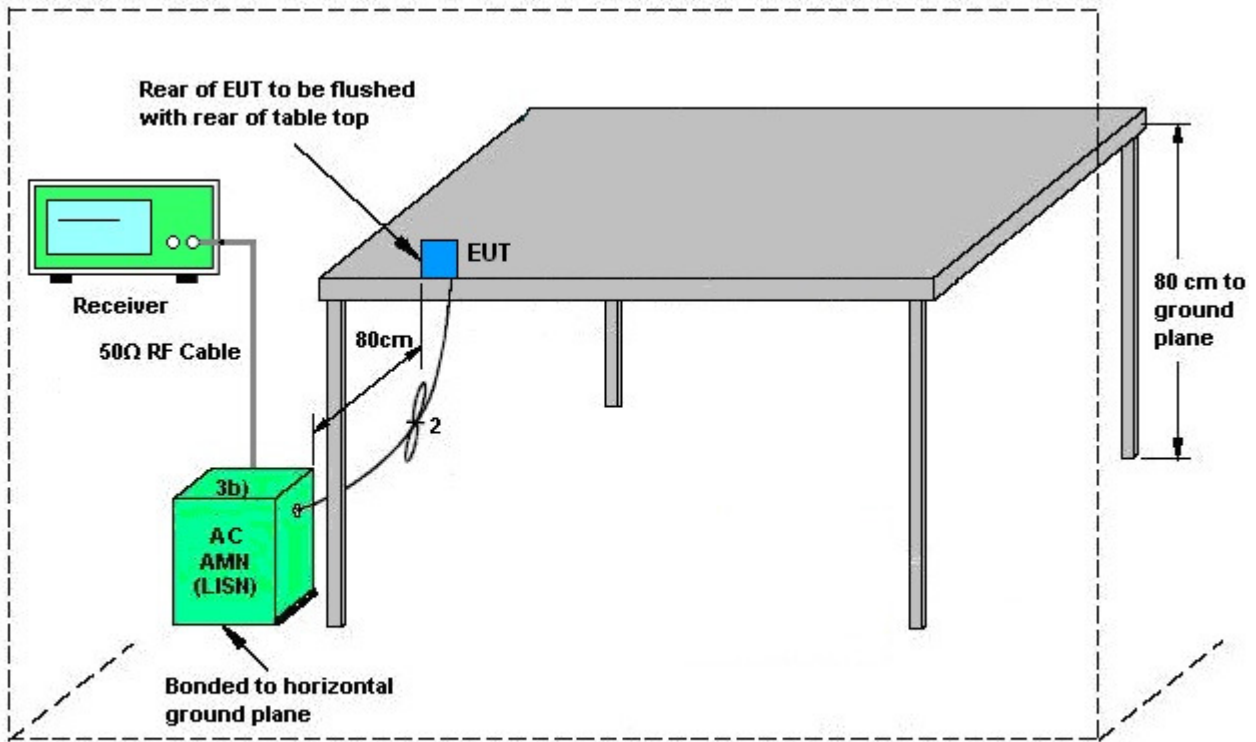
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup

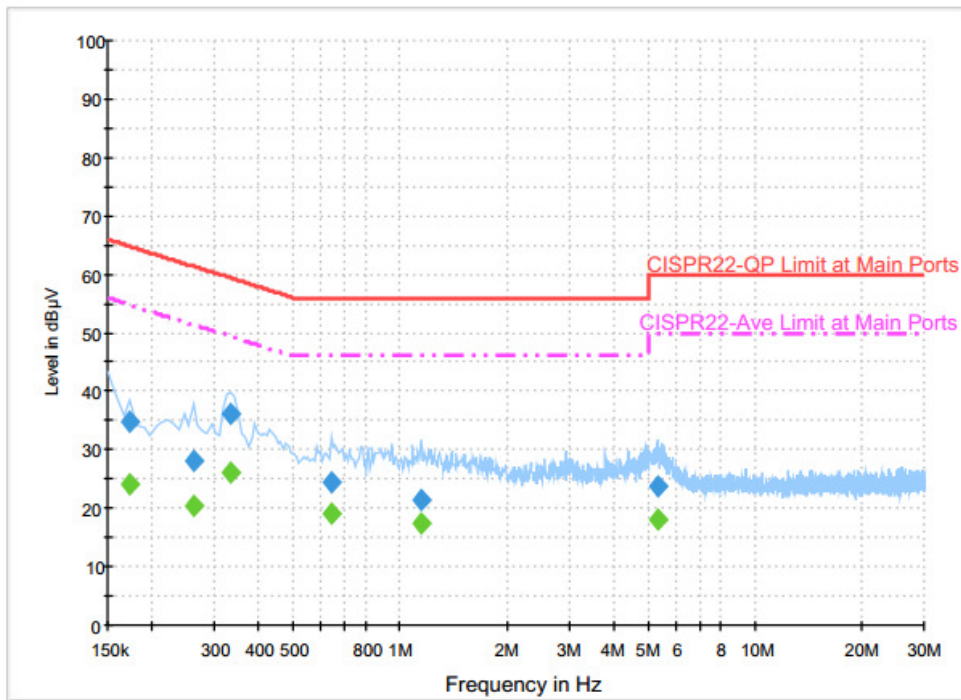


AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network



3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Derreck Chen	Relative Humidity :	49~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + Adapter		



Final Result : QuasiPeak

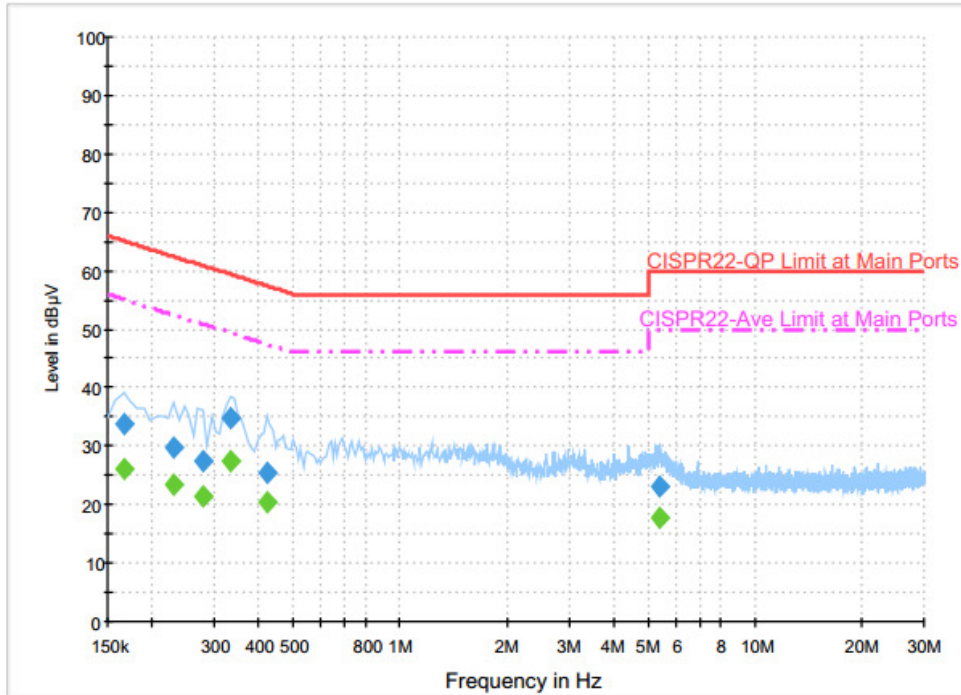
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	34.8	Off	L1	19.7	30.0	64.8
0.262000	28.0	Off	L1	19.7	33.4	61.4
0.334000	36.1	Off	L1	19.7	23.3	59.4
0.638000	24.3	Off	L1	19.7	31.7	56.0
1.150000	21.5	Off	L1	19.6	34.5	56.0
5.326000	23.9	Off	L1	19.7	36.1	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	24.0	Off	L1	19.7	30.8	54.8
0.262000	20.4	Off	L1	19.7	31.0	51.4
0.334000	26.2	Off	L1	19.7	23.2	49.4
0.638000	19.1	Off	L1	19.7	26.9	46.0
1.150000	17.6	Off	L1	19.6	28.4	46.0
5.326000	18.0	Off	L1	19.7	32.0	50.0



Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Derreck Chen	Relative Humidity :	49~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + Adapter		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	33.8	Off	N	19.7	31.4	65.2
0.230000	29.8	Off	N	19.7	32.6	62.4
0.278000	27.5	Off	N	19.7	33.4	60.9
0.334000	34.7	Off	N	19.7	24.7	59.4
0.422000	25.5	Off	N	19.6	31.9	57.4
5.430000	23.0	Off	N	19.7	37.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	26.2	Off	N	19.7	29.0	55.2
0.230000	23.3	Off	N	19.7	29.1	52.4
0.278000	21.5	Off	N	19.7	29.4	50.9
0.334000	27.3	Off	N	19.7	22.1	49.4
0.422000	20.5	Off	N	19.6	26.9	47.4
5.430000	17.8	Off	N	19.7	32.2	50.0

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.

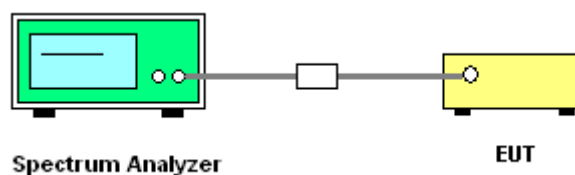
3.6.2 Measuring Instruments

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

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 (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band I	5.20	3.60	5.20	7.45	0.00	1.45
Band II	5.00	3.60	5.00	7.34	0.00	1.34
Band III	4.70	3.50	4.70	7.13	0.00	1.13

$Power\ limit\ reduction = Composite\ gain - 6dBi, (min = 0)$

$PSD\ limit\ reduction = Composite\ gain + PSD\ Array\ gain - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Dec. 02, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Dec. 01, 2016	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Jul. 29, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jul. 28, 2016	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 29, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jul. 28, 2016	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 18, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jun. 17, 2016	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 16, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jul. 15, 2016	Conducted (TH02-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Sep. 01, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Oct. 07, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1902247	1GHz~18GHz	Jul. 01, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Jun. 30, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Sep. 24, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Sep. 23, 2016	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Feb. 02, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Feb. 01, 2016	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 12, 2016 ~ Jan. 22, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Jan. 12, 2016 ~ Jan. 22, 2016	N/A	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	37059	30MHz to 1GHz	Dec. 29, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Dec. 28, 2016	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 20, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Apr. 19, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Jun. 01, 2016	Radiation (03CH11-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 23, 2015	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Dec. 23, 2015	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Dec. 23, 2015	Dec. 01, 2016	Conduction (CO05-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% ($U = 2Uc(y)$)	4.9
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Appendix A. Conducted Test Results

Test Engineer:	AC Chang	Temperature:	21~25	°C
Test Date:	2015/12/29~2016/01/26	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I													
Mod.	Data Rate	NTX	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	17.90		37.50		-		22.53		
11a	6Mbps	1	44	5220	18.05		37.60		-		22.56		
11a	6Mbps	1	48	5240	18.15		36.50		-		22.59		
HT20	MCS0	1	36	5180	18.50		38.70		-		22.67		
HT20	MCS0	1	44	5220	18.50		38.90		-		22.67		
HT20	MCS0	1	48	5240	18.55		39.70		-		22.68		
HT40	MCS0	1	38	5190	36.30		41.76		-		23.01		
HT40	MCS0	1	46	5230	36.50		67.50		-		23.01		
VHT20	MCS0	1	36	5180	18.80		41.70		-		22.74		
VHT20	MCS0	1	44	5220	18.65		40.40		-		22.71		
VHT20	MCS0	1	48	5240	18.70		39.60		-		22.72		
VHT40	MCS0	1	38	5190	36.40		41.76		-		23.01		
VHT40	MCS0	1	46	5230	36.80		68.58		-		23.01		
VHT80	MCS0	1	42	5210	75.00		81.92		-		23.01		
HT20	MCS8	2	36	5180	18.30	18.35	25.30	21.60	-		22.62		
HT20	MCS8	2	44	5220	18.25	18.20	25.90	21.60	-		22.60		
HT20	MCS8	2	48	5240	18.35	18.25	22.90	21.70	-		22.61		
HT40	MCS8	2	38	5190	36.40	36.20	41.94	41.22	-		23.01		
HT40	MCS8	2	46	5230	36.40	36.20	43.20	41.58	-		23.01		
VHT20	MCS0	2	36	5180	18.30	18.15	33.00	22.00	-		22.59		
VHT20	MCS0	2	44	5220	18.35	18.25	27.00	24.10	-		22.61		
VHT20	MCS0	2	48	5240	18.30	18.20	31.40	23.50	-		22.60		
VHT40	MCS0	2	38	5190	36.40	36.30	41.94	41.76	-		23.01		
VHT40	MCS0	2	46	5230	36.40	36.40	45.90	41.94	-		23.01		
VHT80	MCS0	2	42	5210	75.12	75.00	81.60	81.92	-		23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I														
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	36	5180	0.59	0.59	17.83	17.81		24.00	24.00	5.20	3.60	Pass
11a	6Mbps	1	44	5220	0.59	0.59	17.78	17.55		24.00	24.00	5.20	3.60	Pass
11a	6Mbps	1	48	5240	0.59	0.59	17.79	17.78		24.00	24.00	5.20	3.60	Pass
HT20	MCS0	1	36	5180	0.63	0.66	17.50	17.48		24.00	24.00	5.20	3.60	Pass
HT20	MCS0	1	44	5220	0.63	0.66	17.48	17.35		24.00	24.00	5.20	3.60	Pass
HT20	MCS0	1	48	5240	0.63	0.66	17.43	17.37		24.00	24.00	5.20	3.60	Pass
HT40	MCS0	1	38	5190	1.22	1.21	13.42	12.88		24.00	24.00	5.20	3.60	Pass
HT40	MCS0	1	46	5230	1.22	1.21	17.38	17.36		24.00	24.00	5.20	3.60	Pass
VHT20	MCS0	1	36	5180	0.65	0.65	17.47	17.38		24.00	24.00	5.20	3.60	Pass
VHT20	MCS0	1	44	5220	0.65	0.65	17.39	17.30		24.00	24.00	5.20	3.60	Pass
VHT20	MCS0	1	48	5240	0.65	0.65	17.29	17.17		24.00	24.00	5.20	3.60	Pass
VHT40	MCS0	1	38	5190	1.18	1.18	13.50	13.19		24.00	24.00	5.20	3.60	Pass
VHT40	MCS0	1	46	5230	1.18	1.18	17.40	17.35		24.00	24.00	5.20	3.60	Pass
VHT80	MCS0	1	42	5210	61.48	62.22	11.87	11.73		24.00	24.00	5.20	3.60	Pass
HT20	MCS8	2	36	5180	1.17	1.17	14.71	13.88	17.32	24.00		5.20		Pass
HT20	MCS8	2	44	5220	1.17	1.17	14.97	13.42	17.27	24.00		5.20		Pass
HT20	MCS8	2	48	5240	1.17	1.17	14.62	13.54	17.12	24.00		5.20		Pass
HT40	MCS8	2	38	5190	2.02	2.02	12.04	11.21	14.66	24.00		5.20		Pass
HT40	MCS8	2	46	5230	2.02	2.02	14.85	13.78	17.36	24.00		5.20		Pass
VHT20	MCS0	2	36	5180	0.65	0.62	14.97	13.77	17.42	24.00		5.20		Pass
VHT20	MCS0	2	44	5220	0.65	0.62	14.74	13.38	17.13	24.00		5.20		Pass
VHT20	MCS0	2	48	5240	0.65	0.62	14.99	13.70	17.41	24.00		5.20		Pass
VHT40	MCS0	2	38	5190	1.17	1.17	11.43	13.81	13.86	24.00		5.20		Pass
VHT40	MCS0	2	46	5230	1.17	1.17	14.58	11.35	17.30	24.00		5.20		Pass
VHT80	MCS0	2	42	5210	2.06	2.11	11.29	10.22	13.80	24.00		5.20		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
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	36	5180	0.59	0.59	7.32			11.00	11.00	5.20	3.60	Pass
11a	6Mbps	1	44	5220	0.59	0.59	7.73			11.00	11.00	5.20	3.60	Pass
11a	6Mbps	1	48	5240	0.59	0.59	7.33			11.00	11.00	5.20	3.60	Pass
HT20	MCS0	1	36	5180	0.63	0.66	5.94			11.00	11.00	5.20	3.60	Pass
HT20	MCS0	1	44	5220	0.63	0.66	5.85			11.00	11.00	5.20	3.60	Pass
HT20	MCS0	1	48	5240	0.63	0.66	6.45			11.00	11.00	5.20	3.60	Pass
HT40	MCS0	1	38	5190	1.22	1.21	-1.06			11.00	11.00	5.20	3.60	Pass
HT40	MCS0	1	46	5230	1.22	1.21	3.09			11.00	11.00	5.20	3.60	Pass
VHT20	MCS0	1	36	5180	0.65	0.65	6.74			11.00	11.00	5.20	3.60	Pass
VHT20	MCS0	1	44	5220	0.65	0.65	6.42			11.00	11.00	5.20	3.60	Pass
VHT20	MCS0	1	48	5240	0.65	0.65	6.39			11.00	11.00	5.20	3.60	Pass
VHT40	MCS0	1	38	5190	1.18	1.18	-0.39			11.00	11.00	5.20	3.60	Pass
VHT40	MCS0	1	46	5230	1.18	1.18	2.95			11.00	11.00	5.20	3.60	Pass
VHT80	MCS0	1	42	5210	2.11	2.06	-5.33			11.00	11.00	5.20	3.60	Pass
HT20	MCS8	2	36	5180	1.17	1.17			3.77	9.55	7.45			Pass
HT20	MCS8	2	44	5220	1.17	1.17			-0.54	9.55	7.45			Pass
HT20	MCS8	2	48	5240	1.17	1.17			4.79	9.55	7.45			Pass
HT40	MCS8	2	38	5190	2.02	2.02			-1.64	9.55	7.45			Pass
HT40	MCS8	2	46	5230	2.02	2.02			1.51	9.55	7.45			Pass
VHT20	MCS0	2	36	5180	0.65	0.62			3.52	9.55	7.45			Pass
VHT20	MCS0	2	44	5220	0.65	0.62			3.95	9.55	7.45			Pass
VHT20	MCS0	2	48	5240	0.65	0.62			4.24	9.55	7.45			Pass
VHT40	MCS0	2	38	5190	1.17	1.17			-2.45	9.55	7.45			Pass
VHT40	MCS0	2	46	5230	1.17	1.17			1.74	9.55	7.45			Pass
VHT80	MCS0	2	42	5210	2.06	2.11			-6.38	9.55	7.45			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	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	18.00		37.20		23.55		29.55		23.98		
11a	6Mbps	1	60	5300	18.10		37.30		23.58		29.58		23.98		
11a	6Mbps	1	64	5320	18.10		36.40		23.58		29.58		23.98		
HT20	MCS0	1	52	5260	18.70		39.90		23.72		29.72		23.98		
HT20	MCS0	1	60	5300	18.70		39.70		23.72		29.72		23.98		
HT20	MCS0	1	64	5320	18.75		39.90		23.73		29.73		23.98		
HT40	MCS0	1	54	5270	36.60		67.50		23.98		30.00		23.98		
HT40	MCS0	1	62	5310	36.30		41.76		23.98		30.00		23.98		
VHT20	MCS0	1	52	5260	18.70		42.50		23.72		29.72		23.98		
VHT20	MCS0	1	60	5300	18.70		40.30		23.72		29.72		23.98		
VHT20	MCS0	1	64	5320	18.60		39.90		23.70		29.70		23.98		
VHT40	MCS0	1	54	5270	36.90		71.82		23.98		30.00		23.98		
VHT40	MCS0	1	62	5310	36.40		45.72		23.98		30.00		23.98		
VHT80	MCS0	1	58	5290	74.88		81.92		23.98		30.00		23.98		
HT20	MCS8	2	52	5260	18.35	18.35	23.90	21.70	23.64		29.64		23.98		
HT20	MCS8	2	60	5300	18.30	18.35	25.80	21.70	23.62		29.62		23.98		
HT20	MCS8	2	64	5320	18.30	18.15	27.60	21.60	23.59		29.59		23.98		
HT40	MCS8	2	54	5270	36.40	36.40	42.84	41.40	23.98		30.00		23.98		
HT40	MCS8	2	62	5310	36.30	36.30	41.76	41.40	23.98		30.00		23.98		
VHT20	MCS0	2	52	5260	18.25	18.25	29.30	22.30	23.61		29.61		23.98		
VHT20	MCS0	2	60	5300	18.30	18.35	28.20	22.30	23.62		29.62		23.98		
VHT20	MCS0	2	64	5320	18.40	18.25	29.40	24.50	23.61		29.61		23.98		
VHT40	MCS0	2	54	5270	36.50	36.40	47.70	42.12	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.40	36.30	41.76	41.76	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.00	75.12	81.60	81.28	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II														
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	52	5260	0.59	0.59	17.90	17.89		23.98		5.00	3.60	Pass
11a	6Mbps	1	60	5300	0.59	0.59	17.75	17.61		23.98		5.00	3.60	Pass
11a	6Mbps	1	64	5320	0.59	0.59	17.88	17.87		23.98		5.00	3.60	Pass
HT20	MCS0	1	52	5260	0.63	0.66	17.45	17.36		23.98		5.00	3.60	Pass
HT20	MCS0	1	60	5300	0.63	0.66	17.43	17.41		23.98		5.00	3.60	Pass
HT20	MCS0	1	64	5320	0.63	0.66	17.35	17.33		23.98		5.00	3.60	Pass
HT40	MCS0	1	54	5270	1.22	1.21	17.41	17.32		23.98		5.00	3.60	Pass
HT40	MCS0	1	62	5310	1.22	1.21	13.37	12.75		23.98		5.00	3.60	Pass
VHT20	MCS0	1	52	5260	0.65	0.65	17.38	17.37		23.98		5.00	3.60	Pass
VHT20	MCS0	1	60	5300	0.65	0.65	17.33	17.10		23.98		5.00	3.60	Pass
VHT20	MCS0	1	64	5320	0.65	0.65	17.25	17.24		23.98		5.00	3.60	Pass
VHT40	MCS0	1	54	5270	1.18	1.18	17.43	17.41		23.98		5.00	3.60	Pass
VHT40	MCS0	1	62	5310	1.18	1.18	14.68	13.90		23.98		5.00	3.60	Pass
VHT80	MCS0	1	58	5290	61.48	62.22	12.56	11.98		23.98		5.00	3.60	Pass
HT20	MCS8	2	52	5260	1.17	1.17	14.82	13.61	17.27	23.98		5.00		Pass
HT20	MCS8	2	60	5300	1.17	1.17	14.71	13.73	17.26	23.98		5.00		Pass
HT20	MCS8	2	64	5320	1.17	1.17	14.37	13.60	17.01	23.98		5.00		Pass
HT40	MCS8	2	54	5270	2.02	2.02	14.92	13.65	17.34	23.98		5.00		Pass
HT40	MCS8	2	62	5310	2.02	2.02	13.78	12.58	16.23	23.98		5.00		Pass
VHT20	MCS0	2	52	5260	0.65	0.62	14.72	13.74	17.27	23.98		5.00		Pass
VHT20	MCS0	2	60	5300	0.65	0.62	14.79	13.87	17.37	23.98		5.00		Pass
VHT20	MCS0	2	64	5320	0.65	0.62	14.95	13.72	17.39	23.98		5.00		Pass
VHT40	MCS0	2	54	5270	1.17	1.17	14.74	13.81	17.31	23.98		5.00		Pass
VHT40	MCS0	2	62	5310	1.17	1.17	12.25	11.35	14.83	23.98		5.00		Pass
VHT80	MCS0	2	58	5290	2.06	2.11	11.70	11.17	14.45	23.98		5.00		Pass

TEST RESULTS DATA
Power Spectral Density

Band II														
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	52	5260	0.59	0.59	7.54			11.00	11.00	5.00	3.60	Pass
11a	6Mbps	1	60	5300	0.59	0.59	7.20			11.00	11.00	5.00	3.60	Pass
11a	6Mbps	1	64	5320	0.59	0.59	7.30			11.00	11.00	5.00	3.60	Pass
HT20	MCS0	1	52	5260	0.63	0.66	6.35			11.00	11.00	5.00	3.60	Pass
HT20	MCS0	1	60	5300	0.63	0.66	6.42			11.00	11.00	5.00	3.60	Pass
HT20	MCS0	1	64	5320	0.63	0.66	6.35			11.00	11.00	5.00	3.60	Pass
HT40	MCS0	1	54	5270	1.22	1.21	3.01			11.00	11.00	5.00	3.60	Pass
HT40	MCS0	1	62	5310	1.22	1.21	-1.50			11.00	11.00	5.00	3.60	Pass
VHT20	MCS0	1	52	5260	0.65	0.65	6.39			11.00	11.00	5.00	3.60	Pass
VHT20	MCS0	1	60	5300	0.65	0.65	6.44			11.00	11.00	5.00	3.60	Pass
VHT20	MCS0	1	64	5320	0.65	0.65	6.24			11.00	11.00	5.00	3.60	Pass
VHT40	MCS0	1	54	5270	1.18	1.18	3.13			11.00	11.00	5.00	3.60	Pass
VHT40	MCS0	1	62	5310	1.18	1.18	0.13			11.00	11.00	5.00	3.60	Pass
VHT80	MCS0	1	58	5290	2.11	2.06	-4.94			11.00	11.00	5.00	3.60	Pass
HT20	MCS8	2	52	5260	1.17	1.17			2.17	9.66	7.34			Pass
HT20	MCS8	2	60	5300	1.17	1.17			3.84	9.66	7.34			Pass
HT20	MCS8	2	64	5320	1.17	1.17			-1.00	9.66	7.34			Pass
HT40	MCS8	2	54	5270	2.02	2.02			1.07	9.66	7.34			Pass
HT40	MCS8	2	62	5310	2.02	2.02			0.41	9.66	7.34			Pass
VHT20	MCS0	2	52	5260	0.65	0.62			5.11	9.66	7.34			Pass
VHT20	MCS0	2	60	5300	0.65	0.62			3.63	9.66	7.34			Pass
VHT20	MCS0	2	64	5320	0.65	0.62			1.93	9.66	7.34			Pass
VHT40	MCS0	2	54	5270	1.17	1.17			-2.14	9.66	7.34			Pass
VHT40	MCS0	2	62	5310	1.17	1.17			-0.49	9.66	7.34			Pass
VHT80	MCS0	2	58	5290	2.06	2.11			-5.26	9.66	7.34			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III															
Mod.	Data Rate	NTX	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	17.70		37.10		23.48		29.48		23.98		
11a	6Mbps	1	116	5580	17.55		32.70		23.44		29.44		23.98		
11a	6Mbps	1	140	5700	17.55		38.30		23.44		29.44		23.98		
HT20	MCS0	1	100	5500	18.50		37.00		23.67		29.67		23.98		
HT20	MCS0	1	116	5580	18.45		34.10		23.66		29.66		23.98		
HT20	MCS0	1	140	5700	18.45		37.20		23.66		29.66		23.98		
HT40	MCS0	1	102	5510	36.40		42.12		23.98		30.00		23.98		
HT40	MCS0	1	110	5550	36.40		67.14		23.98		30.00		23.98		
HT40	MCS0	1	134	5670	36.70		76.68		23.98		30.00		23.98		
VHT20	MCS0	1	100	5500	18.50		42.20		23.67		29.67		23.98		
VHT20	MCS0	1	116	5580	18.50		39.50		23.67		29.67		23.98		
VHT20	MCS0	1	140	5700	18.80		40.40		23.74		29.74		23.98		
VHT40	MCS0	1	102	5510	36.60		67.50		23.98		30.00		23.98		
VHT40	MCS0	1	110	5550	36.80		71.28		23.98		30.00		23.98		
VHT40	MCS0	1	134	5670	37.10		74.88		23.98		30.00		23.98		
VHT80	MCS0	1	106	5530	75.12		81.92		23.98		30.00		23.98		
HT20	MCS8	2	100	5500	18.35	18.25	27.10	21.70	23.61		29.61		23.98		
HT20	MCS8	2	116	5580	18.30	18.30	22.70	21.70	23.62		29.62		23.98		
HT20	MCS8	2	140	5700	18.25	18.25	25.40	21.60	23.61		29.61		23.98		
HT40	MCS8	2	102	5510	36.40	36.30	42.48	41.58	23.98		30.00		23.98		
HT40	MCS8	2	110	5550	36.30	36.40	42.12	41.22	23.98		30.00		23.98		
HT40	MCS8	2	134	5670	36.30	36.30	42.48	41.58	23.98		30.00		23.98		
VHT20	MCS0	2	100	5500	18.20	18.25	24.40	22.30	23.60		29.60		23.98		
VHT20	MCS0	2	116	5580	18.20	18.25	22.20	22.00	23.60		29.60		23.98		
VHT20	MCS0	2	140	5700	18.25	18.20	25.10	24.90	23.60		29.60		23.98		
VHT40	MCS0	2	102	5510	36.40	36.40	42.12	41.76	23.98		30.00		23.98		
VHT40	MCS0	2	110	5550	36.40	36.40	41.58	41.94	23.98		30.00		23.98		
VHT40	MCS0	2	134	5670	36.30	36.40	46.26	42.48	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.24	75.12	81.92	81.60	23.98		30.00		23.98		

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	0.59	0.59	17.98	17.89		23.98		4.70	3.50	Pass
11a	6Mbps	1	116	5580	0.59	0.59	17.70	17.50		23.98		4.70	3.50	Pass
11a	6Mbps	1	140	5700	0.59	0.59	17.61	17.53		23.98		4.70	3.50	Pass
HT20	MCS0	1	100	5500	0.63	0.66	17.43	17.42		23.98		4.70	3.50	Pass
HT20	MCS0	1	116	5580	0.63	0.66	17.19	17.11		23.98		4.70	3.50	Pass
HT20	MCS0	1	140	5700	0.63	0.66	17.12	17.12		23.98		4.70	3.50	Pass
HT40	MCS0	1	102	5510	1.22	1.21	15.54	15.51		23.98		4.70	3.50	Pass
HT40	MCS0	1	110	5550	1.22	1.21	17.25	17.19		23.98		4.70	3.50	Pass
HT40	MCS0	1	134	5670	1.22	1.21	17.23	17.35		23.98		4.70	3.50	Pass
VHT20	MCS0	1	100	5500	0.65	0.65	17.44	17.36		23.98		4.70	3.50	Pass
VHT20	MCS0	1	116	5580	0.65	0.65	17.19	17.27		23.98		4.70	3.50	Pass
VHT20	MCS0	1	140	5700	0.65	0.65	17.02	17.00		23.98		4.70	3.50	Pass
VHT40	MCS0	1	102	5510	1.18	1.18	16.80	16.64		23.98		4.70	3.50	Pass
VHT40	MCS0	1	110	5550	1.18	1.18	17.35	17.25		23.98		4.70	3.50	Pass
VHT40	MCS0	1	134	5670	1.18	1.18	17.34	17.33		23.98		4.70	3.50	Pass
VHT80	MCS0	1	106	5530	61.48	62.22	12.28	12.02		23.98		4.70	3.50	Pass
HT20	MCS8	2	100	5500	1.17	1.17	14.40	14.25	17.33	23.98		4.70		Pass
HT20	MCS8	2	116	5580	1.17	1.17	14.13	14.10	17.12	23.98		4.70		Pass
HT20	MCS8	2	140	5700	1.17	1.17	14.07	14.04	17.06	23.98		4.70		Pass
HT40	MCS8	2	102	5510	2.02	2.02	14.44	14.19	17.33	23.98		4.70		Pass
HT40	MCS8	2	110	5550	2.02	2.02	14.26	14.18	17.23	23.98		4.70		Pass
HT40	MCS8	2	134	5670	2.02	2.02	14.30	14.02	17.17	23.98		4.70		Pass
VHT20	MCS0	2	100	5500	0.65	0.62	14.31	13.63	17.00	23.98		4.70		Pass
VHT20	MCS0	2	116	5580	0.65	0.62	14.34	13.66	17.03	23.98		4.70		Pass
VHT20	MCS0	2	140	5700	0.65	0.62	14.59	14.13	17.38	23.98		4.70		Pass
VHT40	MCS0	2	102	5510	1.17	1.17	14.62	14.14	17.40	23.98		4.70		Pass
VHT40	MCS0	2	110	5550	1.17	1.17	14.38	14.20	17.30	23.98		4.70		Pass
VHT40	MCS0	2	134	5670	1.17	1.17	14.57	14.22	17.41	23.98		4.70		Pass
VHT80	MCS0	2	106	5530	2.06	2.11	10.57	10.71	13.65	23.98		4.70		Pass

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	0.59	0.59	8.00			11.00	11.00	4.70	3.50	Pass
11a	6Mbps	1	116	5580	0.59	0.59	7.74			11.00	11.00	4.70	3.50	Pass
11a	6Mbps	1	140	5700	0.59	0.59	6.56			11.00	11.00	4.70	3.50	Pass
HT20	MCS0	1	100	5500	0.63	0.66	6.85			11.00	11.00	4.70	3.50	Pass
HT20	MCS0	1	116	5580	0.63	0.66	6.62			11.00	11.00	4.70	3.50	Pass
HT20	MCS0	1	140	5700	0.63	0.66	5.19			11.00	11.00	4.70	3.50	Pass
HT40	MCS0	1	102	5510	1.22	1.21	1.45			11.00	11.00	4.70	3.50	Pass
HT40	MCS0	1	110	5550	1.22	1.21	3.93			11.00	11.00	4.70	3.50	Pass
HT40	MCS0	1	134	5670	1.22	1.21	3.28			11.00	11.00	4.70	3.50	Pass
VHT20	MCS0	1	100	5500	0.65	0.65	7.59			11.00	11.00	4.70	3.50	Pass
VHT20	MCS0	1	116	5580	0.65	0.65	7.45			11.00	11.00	4.70	3.50	Pass
VHT20	MCS0	1	140	5700	0.65	0.65	5.83			11.00	11.00	4.70	3.50	Pass
VHT40	MCS0	1	102	5510	1.18	1.18	4.11			11.00	11.00	4.70	3.50	Pass
VHT40	MCS0	1	110	5550	1.18	1.18	3.81			11.00	11.00	4.70	3.50	Pass
VHT40	MCS0	1	134	5670	1.18	1.18	2.89			11.00	11.00	4.70	3.50	Pass
VHT80	MCS0	1	106	5530	2.11	2.06	-4.70			11.00	11.00	4.70	3.50	Pass
HT20	MCS8	2	100	5500	1.17	1.17			4.70	9.87	7.13		Pass	
HT20	MCS8	2	116	5580	1.17	1.17			2.94	9.87	7.13		Pass	
HT20	MCS8	2	140	5700	1.17	1.17			3.40	9.87	7.13		Pass	
HT40	MCS8	2	102	5510	2.02	2.02			0.26	9.87	7.13		Pass	
HT40	MCS8	2	110	5550	2.02	2.02			1.82	9.87	7.13		Pass	
HT40	MCS8	2	134	5670	2.02	2.02			-7.68	9.87	7.13		Pass	
VHT20	MCS0	2	100	5500	0.65	0.62			3.67	9.87	7.13		Pass	
VHT20	MCS0	2	116	5580	0.65	0.62			5.36	9.87	7.13		Pass	
VHT20	MCS0	2	140	5700	0.65	0.62			3.37	9.87	7.13		Pass	
VHT40	MCS0	2	102	5510	1.17	1.17			-2.50	9.87	7.13		Pass	
VHT40	MCS0	2	110	5550	1.17	1.17			1.51	9.87	7.13		Pass	
VHT40	MCS0	2	134	5670	1.17	1.17			-3.93	9.87	7.13		Pass	
VHT80	MCS0	2	106	5530	2.06	2.11			-11.96	9.87	7.13		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	93.5	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	126.5	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	110	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	-30	110	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	50	110	

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	5320.000	0.000	0.00	20	93.5	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	126.5	
11a	6Mbps	1	64	5320	5319.975	-0.025	-4.70	20	110	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	110	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	50	110	

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	5500.050	0.050	9.09	20	93.5	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	126.5	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	110	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	110	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	50	110	



Appendix B. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Bill Chang, and Ken Wu	Temperature :	20~22°C
		Relative Humidity :	54~56%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 36 5180MHz		5150	52.8	-21.2	74	45.74	31.58	8.95	33.47	268	143	P	H	
		5150	46.19	-7.81	54	39.13	31.58	8.95	33.47	268	143	A	H	
	*	5180	106.79	-	-	99.67	31.62	8.97	33.47	268	143	P	H	
	*	5180	100.77	-	-	93.65	31.62	8.97	33.47	268	143	A	H	
													H	
														H
			5149.55	58.54	-15.46	74	51.48	31.58	8.95	33.47	171	340	P	V
			5149.85	50.08	-3.92	54	43.02	31.58	8.95	33.47	171	340	A	V
	*		5180	110.52	-	-	103.4	31.62	8.97	33.47	171	340	P	V
	*		5180	103.89	-	-	96.77	31.62	8.97	33.47	171	340	A	V
														V
														V
802.11a CH 44 5220MHz		5134.25	48.77	-25.23	74	41.73	31.56	8.95	33.47	292	139	P	H	
		5133.2	39.78	-14.22	54	32.74	31.56	8.95	33.47	292	139	A	H	
	*	5220	106.81	-	-	99.64	31.66	8.98	33.47	292	139	P	H	
	*	5220	100.73	-	-	93.56	31.66	8.98	33.47	292	139	A	H	
			5441.41	47.09	-26.91	74	39.48	31.92	9.17	33.48	292	139	P	H
			5413.69	37.98	-16.02	54	30.39	31.9	9.17	33.48	292	139	A	H
			5128.4	48.85	-25.15	74	41.81	31.56	8.95	33.47	164	339	P	V
			5149.25	41.38	-12.62	54	34.32	31.58	8.95	33.47	164	339	A	V
	*		5220	110.4	-	-	103.23	31.66	8.98	33.47	164	339	P	V
	*		5220	102.35	-	-	95.18	31.66	8.98	33.47	164	339	A	V
			5434.26	47.75	-26.25	74	40.14	31.92	9.17	33.48	164	339	P	V
			5359.79	38.58	-15.42	54	31.16	31.82	9.08	33.48	164	339	A	V



802.11a CH 48 5240MHz		5125.25	47.55	-26.45	74	40.51	31.56	8.95	33.47	247	143	P	H
		5148.95	39	-15	54	31.94	31.58	8.95	33.47	247	143	A	H
	*	5240	106.39	-	-	99.2	31.68	8.98	33.47	247	143	P	H
	*	5240	100.15	-	-	92.96	31.68	8.98	33.47	247	143	A	H
		5352.53	46.82	-27.18	74	39.4	31.82	9.08	33.48	247	143	P	H
		5381.57	38.19	-15.81	54	30.68	31.86	9.13	33.48	247	143	A	H
		5141.75	49.07	-24.93	74	42.01	31.58	8.95	33.47	129	338	P	V
		5148.05	39.99	-14.01	54	32.93	31.58	8.95	33.47	129	338	A	V
	*	5240	109.82	-	-	102.63	31.68	8.98	33.47	129	338	P	V
	*	5240	104	-	-	96.81	31.68	8.98	33.47	129	338	A	V
		5353.63	47.48	-26.52	74	40.06	31.82	9.08	33.48	129	338	P	V
		5353.41	39.31	-14.69	54	31.89	31.82	9.08	33.48	129	338	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	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	42.01	-31.99	74	56.63	39.79	13.09	67.5	100	0	P	H
		15540	49.64	-24.36	74	59.88	38.6	16.55	65.39	100	0	P	H
													H
													H
		10360	42.47	-31.53	74	57.09	39.79	13.09	67.5	100	0	P	V
		15540	50.73	-23.27	74	60.97	38.6	16.55	65.39	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	41.37	-32.63	74	55.87	39.89	13.11	67.5	100	0	P	H
		15660	48.81	-25.19	74	59.39	38.23	16.56	65.37	100	0	P	H
													H
													H
		10440	41.32	-32.68	74	55.82	39.89	13.11	67.5	100	0	P	V
		15660	50.99	-23.01	74	61.57	38.23	16.56	65.37	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	41.03	-32.97	74	55.45	39.97	13.11	67.5	100	0	P	H
		15720	48.85	-25.15	74	59.61	38.03	16.57	65.36	100	0	P	H
													H
													H
		10480	41.13	-32.87	74	55.55	39.97	13.11	67.5	100	0	P	V
		15720	49.55	-24.45	74	60.31	38.03	16.57	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	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		5149.7	55.25	-18.75	74	48.19	31.58	8.95	33.47	297	134	P	H	
		5150	47.05	-6.95	54	39.99	31.58	8.95	33.47	297	134	A	H	
	*	5179	106.31	-	-	99.19	31.62	8.97	33.47	297	134	P	H	
	*	5179	99.72	-	-	92.6	31.62	8.97	33.47	297	134	A	H	
													H	
														H
			5148.65	61.45	-12.55	74	54.39	31.58	8.95	33.47	200	329	P	V
			5149.85	49.22	-4.78	54	42.16	31.58	8.95	33.47	200	329	A	V
		*	5180	108.43	-	-	101.31	31.62	8.97	33.47	200	329	P	V
		*	5180	102.22	-	-	95.1	31.62	8.97	33.47	200	329	A	V
													V	
													V	
802.11n HT20 CH 44 5220MHz		5066.6	48.67	-25.33	74	41.77	31.48	8.89	33.47	298	143	P	H	
		5113.85	39.23	-14.77	54	32.24	31.54	8.92	33.47	298	143	A	H	
	*	5220	106.13	-	-	98.96	31.66	8.98	33.47	298	143	P	H	
	*	5220	99.27	-	-	92.1	31.66	8.98	33.47	298	143	A	H	
			5391.8	46.92	-27.08	74	39.41	31.86	9.13	33.48	298	143	P	H
			5377.83	38.1	-15.9	54	30.59	31.86	9.13	33.48	298	143	A	H
			5074.7	48.59	-25.41	74	41.67	31.5	8.89	33.47	199	329	P	V
			5148.95	40.46	-13.54	54	33.4	31.58	8.95	33.47	199	329	A	V
		*	5221	108.63	-	-	101.46	31.66	8.98	33.47	199	329	P	V
		*	5221	102.22	-	-	95.05	31.66	8.98	33.47	199	329	A	V
		5410.39	47.04	-26.96	74	39.47	31.88	9.17	33.48	199	329	P	V	
		5356.49	38.5	-15.5	54	31.08	31.82	9.08	33.48	199	329	A	V	



802.11n HT20 CH 48 5240MHz		5123.9	48.66	-25.34	74	41.62	31.56	8.95	33.47	289	133	P	H
		5135.3	39.3	-14.7	54	32.26	31.56	8.95	33.47	289	133	A	H
	*	5240	106.56	-	-	99.37	31.68	8.98	33.47	289	133	P	H
	*	5240	99.49	-	-	92.3	31.68	8.98	33.47	289	133	A	H
		5443.06	47.31	-26.69	74	39.65	31.92	9.22	33.48	289	133	P	H
		5359.24	38.21	-15.79	54	30.79	31.82	9.08	33.48	289	133	A	H
		5106.2	48.31	-25.69	74	41.32	31.54	8.92	33.47	186	328	P	V
		5148.65	39.85	-14.15	54	32.79	31.58	8.95	33.47	186	328	A	V
	*	5240	109.98	-	-	102.79	31.68	8.98	33.47	186	328	P	V
	*	5240	102.69	-	-	95.5	31.68	8.98	33.47	186	328	A	V
		5410.94	47.48	-26.52	74	39.91	31.88	9.17	33.48	186	328	P	V
		5355.39	38.91	-15.09	54	31.49	31.82	9.08	33.48	186	328	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	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	41.59	-32.41	74	56.21	39.79	13.09	67.5	100	0	P	H
		15540	49.08	-24.92	74	59.32	38.6	16.55	65.39	100	0	P	H
													H
													H
		10360	42	-32	74	56.62	39.79	13.09	67.5	100	0	P	V
		15540	47.54	-26.46	74	57.78	38.6	16.55	65.39	100	0	P	V
													V
802.11n HT20 CH 44 5220MHz		10440	41.5	-32.5	74	56	39.89	13.11	67.5	100	0	P	H
		15660	47.77	-26.23	74	58.35	38.23	16.56	65.37	100	0	P	H
													H
													H
		10440	41.82	-32.18	74	56.32	39.89	13.11	67.5	100	0	P	V
		15660	49.23	-24.77	74	59.81	38.23	16.56	65.37	100	0	P	V
													V
802.11n HT20 CH 48 5240MHz		10480	41.81	-32.19	74	56.23	39.97	13.11	67.5	100	0	P	H
		15720	47.62	-26.38	74	58.38	38.03	16.57	65.36	100	0	P	H
													H
													H
		10480	41.18	-32.82	74	55.6	39.97	13.11	67.5	100	0	P	V
		15720	48.49	-25.51	74	59.25	38.03	16.57	65.36	100	0	P	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	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		5146.85	55.77	-18.23	74	48.71	31.58	8.95	33.47	216	256	P	H
		5150	49.26	-4.74	54	42.2	31.58	8.95	33.47	216	256	A	H
	*	5190	100.3	-	-	93.18	31.62	8.97	33.47	216	256	P	H
	*	5190	92.07	-	-	84.95	31.62	8.97	33.47	216	256	A	H
		5441.3	47.82	-26.18	74	40.21	31.92	9.17	33.48	216	256	P	H
		5452.52	38.79	-15.21	54	31.11	31.94	9.22	33.48	216	256	A	H
		5145.8	58.59	-15.41	74	51.53	31.58	8.95	33.47	168	341	P	V
		5150	51.99	-2.01	54	44.93	31.58	8.95	33.47	168	341	A	V
	*	5190	103.23	-	-	96.11	31.62	8.97	33.47	168	341	P	V
	*	5190	96.56	-	-	89.44	31.62	8.97	33.47	168	341	A	V
		5404.34	47.33	-26.67	74	39.76	31.88	9.17	33.48	168	341	P	V
		5392.46	39.13	-14.87	54	31.62	31.86	9.13	33.48	168	341	A	V
802.11n HT40 CH 46 5230MHz		5140.1	48.14	-25.86	74	41.08	31.58	8.95	33.47	279	142	P	H
		5147	40.61	-13.39	54	33.55	31.58	8.95	33.47	279	142	A	H
	*	5230	103.78	-	-	96.59	31.68	8.98	33.47	279	142	P	H
	*	5230	96.29	-	-	89.1	31.68	8.98	33.47	279	142	A	H
		5419.63	47.16	-26.84	74	39.57	31.9	9.17	33.48	279	142	P	H
		5361.22	39.19	-14.81	54	31.75	31.84	9.08	33.48	279	142	A	H
		5149.25	53.25	-20.75	74	46.19	31.58	8.95	33.47	201	329	P	V
		5149.4	42.18	-11.82	54	35.12	31.58	8.95	33.47	201	329	A	V
	*	5230	106.42	-	-	99.23	31.68	8.98	33.47	201	329	P	V
	*	5230	99.29	-	-	92.1	31.68	8.98	33.47	201	329	A	V
	5399.39	47.44	-26.56	74	39.91	31.88	9.13	33.48	201	329	P	V	
	5357.37	39.96	-14.04	54	32.54	31.82	9.08	33.48	201	329	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	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	42.51	-31.49	74	57.11	39.81	13.09	67.5	100	0	P	H
		15570	41.56	-32.44	74	51.91	38.49	16.55	65.39	100	0	P	H
													H
													H
		10380	42.22	-31.78	74	56.82	39.81	13.09	67.5	100	0	P	V
		15570	41.12	-32.88	74	51.47	38.49	16.55	65.39	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	41.38	-32.62	74	55.85	39.92	13.11	67.5	100	0	P	H
		15690	45.88	-28.12	74	56.55	38.13	16.56	65.36	100	0	P	H
													H
													H
		10460	42.3	-31.7	74	56.77	39.92	13.11	67.5	100	0	P	V
		15690	44.78	-29.22	74	55.45	38.13	16.56	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	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		5148.05	57.05	-16.95	74	49.99	31.58	8.95	33.47	297	134	P	H	
		5150	46.43	-7.57	54	39.37	31.58	8.95	33.47	297	134	A	H	
	*	5180	105.7	-	-	98.58	31.62	8.97	33.47	297	134	P	H	
	*	5180	99.2	-	-	92.08	31.62	8.97	33.47	297	134	A	H	
													H	
														H
			5149.25	57.13	-16.87	74	50.07	31.58	8.95	33.47	200	329	P	V
			5150	49.39	-4.61	54	42.33	31.58	8.95	33.47	200	329	A	V
		*	5181	108.8	-	-	101.68	31.62	8.97	33.47	200	329	P	V
		*	5181	102.02	-	-	94.9	31.62	8.97	33.47	200	329	A	V
													V	
													V	
802.11ac VHT20 CH 44 5220MHz		5085.65	47.81	-26.19	74	40.86	31.5	8.92	33.47	298	140	P	H	
		5128.85	39.45	-14.55	54	32.41	31.56	8.95	33.47	298	140	A	H	
	*	5221	106.19	-	-	99.02	31.66	8.98	33.47	298	140	P	H	
	*	5221	99.07	-	-	91.9	31.66	8.98	33.47	298	140	A	H	
			5418.86	47.17	-26.83	74	39.58	31.9	9.17	33.48	298	140	P	H
			5453.84	38.13	-15.87	54	30.45	31.94	9.22	33.48	298	140	A	H
			5098.85	48.6	-25.4	74	41.63	31.52	8.92	33.47	199	329	P	V
			5149.4	40.49	-13.51	54	33.43	31.58	8.95	33.47	199	329	A	V
		*	5220	109.04	-	-	101.87	31.66	8.98	33.47	199	329	P	V
		*	5220	102.47	-	-	95.3	31.66	8.98	33.47	199	329	A	V
		5452.96	47.12	-26.88	74	39.44	31.94	9.22	33.48	199	329	P	V	
		5357.26	38.4	-15.6	54	30.98	31.82	9.08	33.48	199	329	A	V	



802.11ac VHT20 CH 48 5240MHz		5127.65	47.46	-26.54	74	40.42	31.56	8.95	33.47	289	133	P	H
		5149.85	39.63	-14.37	54	32.57	31.58	8.95	33.47	289	133	A	H
	*	5240	106.1	-	-	98.91	31.68	8.98	33.47	289	133	P	H
	*	5240	99.49	-	-	92.3	31.68	8.98	33.47	289	133	A	H
		5412.92	47.53	-26.47	74	39.94	31.9	9.17	33.48	289	133	P	H
		5374.64	38.25	-15.75	54	30.76	31.84	9.13	33.48	289	133	A	H
		5099	48.64	-25.36	74	41.67	31.52	8.92	33.47	186	328	P	V
		5149.55	40.39	-13.61	54	33.33	31.58	8.95	33.47	186	328	A	V
	*	5240	109.21	-	-	102.02	31.68	8.98	33.47	186	328	P	V
	*	5240	102.59	-	-	95.4	31.68	8.98	33.47	186	328	A	V
		5370.35	47.52	-26.48	74	40.03	31.84	9.13	33.48	186	328	P	V
		5355.39	39.1	-14.9	54	31.68	31.82	9.08	33.48	186	328	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	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	42.58	-31.42	74	57.2	39.79	13.09	67.5	100	0	P	H	
		15540	49.58	-24.42	74	59.82	38.6	16.55	65.39	100	0	P	H	
													H	
													H	
			10360	41.79	-32.21	74	56.41	39.79	13.09	67.5	100	0	P	V
			15540	47.85	-26.15	74	58.09	38.6	16.55	65.39	100	0	P	V
														V
802.11ac VHT20 CH 44 5220MHz		10440	41.21	-32.79	74	55.71	39.89	13.11	67.5	100	0	P	H	
		15660	48.99	-25.01	74	59.57	38.23	16.56	65.37	100	0	P	H	
													H	
													H	
			10440	41.04	-32.96	74	55.54	39.89	13.11	67.5	100	0	P	V
			15660	47.01	-26.99	74	57.59	38.23	16.56	65.37	100	0	P	V
														V
802.11ac VHT20 CH 48 5240MHz		10480	41.35	-32.65	74	55.77	39.97	13.11	67.5	100	0	P	H	
		15720	48.2	-25.8	74	58.96	38.03	16.57	65.36	100	0	P	H	
													H	
													H	
			10480	40.8	-33.2	74	55.22	39.97	13.11	67.5	100	0	P	V
			15720	48.86	-25.14	74	59.62	38.03	16.57	65.36	100	0	P	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	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	57.75	-16.25	74	50.69	31.58	8.95	33.47	299	134	P	H
		5150	50.14	-3.86	54	43.08	31.58	8.95	33.47	299	134	A	H
	*	5190	99.24	-	-	92.12	31.62	8.97	33.47	299	134	P	H
	*	5190	92.62	-	-	85.5	31.62	8.97	33.47	299	134	A	H
		5417.54	46.26	-27.74	74	38.67	31.9	9.17	33.48	299	134	P	H
		5417.32	38.65	-15.35	54	31.06	31.9	9.17	33.48	299	134	A	H
		5146.1	59.52	-14.48	74	52.46	31.58	8.95	33.47	195	328	P	V
		5149.55	51.78	-2.22	54	44.72	31.58	8.95	33.47	195	328	A	V
	*	5190	102.25	-	-	95.13	31.62	8.97	33.47	195	328	P	V
	*	5190	95.96	-	-	88.84	31.62	8.97	33.47	195	328	A	V
		5369.69	46.86	-27.14	74	39.37	31.84	9.13	33.48	195	328	P	V
		5441.85	39.15	-14.85	54	31.49	31.92	9.22	33.48	195	328	A	V
802.11ac VHT40 CH 46 5230MHz		5144.45	47.8	-26.2	74	40.74	31.58	8.95	33.47	280	141	P	H
		5146.7	40.52	-13.48	54	33.46	31.58	8.95	33.47	280	141	A	H
	*	5230	102.41	-	-	95.22	31.68	8.98	33.47	280	141	P	H
	*	5230	95.53	-	-	88.34	31.68	8.98	33.47	280	141	A	H
		5362.87	47.19	-26.81	74	39.7	31.84	9.13	33.48	280	141	P	H
		5358.58	39.15	-14.85	54	31.73	31.82	9.08	33.48	280	141	A	H
		5119.1	48.89	-25.11	74	41.9	31.54	8.92	33.47	201	329	P	V
		5146.85	41.53	-12.47	54	34.47	31.58	8.95	33.47	201	329	A	V
	*	5230	106.08	-	-	98.89	31.68	8.98	33.47	201	329	P	V
	*	5230	99.34	-	-	92.15	31.68	8.98	33.47	201	329	A	V
	5405.88	47.77	-26.23	74	40.2	31.88	9.17	33.48	201	329	P	V	
	5370.9	39.48	-14.52	54	31.99	31.84	9.13	33.48	201	329	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	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	42.6	-31.4	74	57.2	39.81	13.09	67.5	100	0	P	H	
		15570	41.88	-32.12	74	52.23	38.49	16.55	65.39	100	0	P	H	
													H	
													H	
			10380	42.44	-31.56	74	57.04	39.81	13.09	67.5	100	0	P	V
			15570	41.63	-32.37	74	51.98	38.49	16.55	65.39	100	0	P	V
														V
802.11ac VHT40 CH 46 5230MHz		10460	41.45	-32.55	74	55.92	39.92	13.11	67.5	100	0	P	H	
		15690	47.3	-26.7	74	57.97	38.13	16.56	65.36	100	0	P	H	
													H	
													H	
			10460	41.84	-32.16	74	56.31	39.92	13.11	67.5	100	0	P	V
			15690	45.35	-28.65	74	56.02	38.13	16.56	65.36	100	0	P	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	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		5149.4	54.29	-19.71	74	47.23	31.58	8.95	33.47	298	327	P	H
		5148.2	50.02	-3.98	54	42.96	31.58	8.95	33.47	298	327	A	H
	*	5210	96.04	-	-	88.87	31.66	8.98	33.47	298	327	P	H
	*	5210	88.64	-	-	81.47	31.66	8.98	33.47	298	327	A	H
		5451.64	46.75	-27.25	74	39.07	31.94	9.22	33.48	298	327	P	H
		5436.57	40.01	-13.99	54	32.4	31.92	9.17	33.48	298	327	A	H
		5135.9	58.86	-15.14	74	51.82	31.56	8.95	33.47	163	341	P	V
		5148.65	52.91	-1.09	54	45.85	31.58	8.95	33.47	163	341	A	V
	*	5210	99.57	-	-	92.4	31.66	8.98	33.47	163	341	P	V
	*	5210	91.85	-	-	84.68	31.66	8.98	33.47	163	341	A	V
		5427.11	47.33	-26.67	74	39.74	31.9	9.17	33.48	163	341	P	V
	5374.64	39.91	-14.09	54	32.42	31.84	9.13	33.48	163	341	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	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	41.07	-32.93	74	55.6	39.87	13.1	67.5	100	0	P	H	
		15630	39.34	-34.66	74	49.87	38.29	16.55	65.37	100	0	P	H	
													H	
													H	
			10420	41.65	-32.35	74	56.18	39.87	13.1	67.5	100	0	P	V
			15630	40.22	-33.78	74	50.75	38.29	16.55	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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5100.5	47.38	-26.62	74	40.41	31.52	8.92	33.47	230	142	P	H
		5124.65	38.84	-15.16	54	31.8	31.56	8.95	33.47	230	142	A	H
	*	5260	106.06	-	-	98.83	31.72	8.99	33.48	230	142	P	H
	*	5260	100.02	-	-	92.79	31.72	8.99	33.48	230	142	A	H
		5448.78	47.67	-26.33	74	39.99	31.94	9.22	33.48	230	142	P	H
		5357.26	38.46	-15.54	54	31.04	31.82	9.08	33.48	230	142	A	H
		5134.25	48.15	-25.85	74	41.11	31.56	8.95	33.47	140	337	P	V
		5144.3	40.06	-13.94	54	33	31.58	8.95	33.47	140	337	A	V
	*	5260	110.18	-	-	102.95	31.72	8.99	33.48	140	337	P	V
	*	5260	103.59	-	-	96.36	31.72	8.99	33.48	140	337	A	V
		5350.99	48.72	-25.28	74	41.3	31.82	9.08	33.48	140	337	P	V
		5357.04	39.83	-14.17	54	32.41	31.82	9.08	33.48	140	337	A	V
802.11a CH 60 5300MHz		5117.6	48.56	-25.44	74	41.57	31.54	8.92	33.47	212	146	P	H
		5129	38.67	-15.33	54	31.63	31.56	8.95	33.47	212	146	A	H
	*	5300	105.88	-	-	98.56	31.76	9.04	33.48	212	146	P	H
	*	5300	100.41	-	-	93.09	31.76	9.04	33.48	212	146	A	H
		5373.43	48.41	-25.59	74	40.92	31.84	9.13	33.48	212	146	P	H
		5353.52	39.13	-14.87	54	31.71	31.82	9.08	33.48	212	146	A	H
		5043.65	48.92	-25.08	74	42.04	31.46	8.89	33.47	111	336	P	V
		5128.25	38.91	-15.09	54	31.87	31.56	8.95	33.47	111	336	A	V
	*	5300	109.99	-	-	102.67	31.76	9.04	33.48	111	336	P	V
	*	5300	103.45	-	-	96.13	31.76	9.04	33.48	111	336	A	V
		5359.79	48.55	-25.45	74	41.13	31.82	9.08	33.48	111	336	P	V
		5350.77	40.61	-13.39	54	33.19	31.82	9.08	33.48	111	336	A	V



802.11a CH 64 5320MHz	*	5320	106.5	-	-	99.16	31.78	9.04	33.48	228	144	P	H
	*	5320	100.14	-	-	92.8	31.78	9.04	33.48	228	144	A	H
		5350	51.15	-22.85	74	43.73	31.82	9.08	33.48	228	144	P	H
		5350.11	44.05	-9.95	54	36.63	31.82	9.08	33.48	228	144	A	H
													H
													H
	*	5320	110.45	-	-	103.11	31.78	9.04	33.48	107	337	P	V
	*	5320	103.77	-	-	96.43	31.78	9.04	33.48	107	337	A	V
		5353.52	53.39	-20.61	74	45.97	31.82	9.08	33.48	107	337	P	V
		5350.22	47.11	-6.89	54	39.69	31.82	9.08	33.48	107	337	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	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	42.72	-31.28	74	57.05	40.01	13.14	67.48	100	0	P	H
		15780	46.4	-27.6	74	57.3	37.87	16.57	65.34	100	0	P	H
													H
													H
		10520	42.02	-31.98	74	56.35	40.01	13.14	67.48	100	0	P	V
		15780	47.34	-26.66	74	58.24	37.87	16.57	65.34	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	40.76	-33.24	74	54.9	40.06	13.2	67.4	100	0	P	H
		15900	48.56	-25.44	74	59.79	37.51	16.58	65.32	100	0	P	H
													H
													H
		10600	40.21	-33.79	74	54.35	40.06	13.2	67.4	100	0	P	V
		15900	50.35	-23.65	74	61.58	37.51	16.58	65.32	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	39.91	-34.09	74	53.96	40.08	13.23	67.36	100	0	P	H
		15960	47.82	-26.18	74	59.24	37.3	16.59	65.31	100	0	P	H
													H
													H
		10640	41.04	-32.96	74	55.09	40.08	13.23	67.36	100	0	P	V
		15966	48.82	-25.18	74	60.24	37.3	16.59	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	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		5045.3	48.57	-25.43	74	41.69	31.46	8.89	33.47	300	141	P	H
		5118.5	38.96	-15.04	54	31.97	31.54	8.92	33.47	300	141	A	H
	*	5260	106.41	-	-	99.18	31.72	8.99	33.48	300	141	P	H
	*	5260	99.23	-	-	92	31.72	8.99	33.48	300	141	A	H
		5433.6	47.05	-26.95	74	39.44	31.92	9.17	33.48	300	141	P	H
		5358.8	38.59	-15.41	54	31.17	31.82	9.08	33.48	300	141	A	H
		5036.45	47.66	-26.34	74	40.83	31.44	8.86	33.47	200	329	P	V
		5147.6	39.55	-14.45	54	32.49	31.58	8.95	33.47	200	329	A	V
	*	5260	109.82	-	-	102.59	31.72	8.99	33.48	200	329	P	V
	*	5260	102.29	-	-	95.06	31.72	8.99	33.48	200	329	A	V
		5361.55	48.25	-25.75	74	40.81	31.84	9.08	33.48	200	329	P	V
		5358.36	39.3	-14.7	54	31.88	31.82	9.08	33.48	200	329	A	V
802.11n HT20 CH 60 5300MHz		5074.25	47.42	-26.58	74	40.5	31.5	8.89	33.47	300	139	P	H
		5115.8	38.66	-15.34	54	31.67	31.54	8.92	33.47	300	139	A	H
	*	5300	106.55	-	-	99.23	31.76	9.04	33.48	300	139	P	H
	*	5300	99.3	-	-	91.98	31.76	9.04	33.48	300	139	A	H
		5377.39	47.25	-26.75	74	39.76	31.84	9.13	33.48	300	139	P	H
		5358.47	39.25	-14.75	54	31.83	31.82	9.08	33.48	300	139	A	H
		5089.85	48.03	-25.97	74	41.06	31.52	8.92	33.47	208	321	P	V
		5122.55	38.91	-15.09	54	31.87	31.56	8.95	33.47	208	321	A	V
	*	5300	109.42	-	-	102.1	31.76	9.04	33.48	208	321	P	V
	*	5300	102.53	-	-	95.21	31.76	9.04	33.48	208	321	A	V
	5402.36	49.69	-24.31	74	42.12	31.88	9.17	33.48	208	321	P	V	
	5362.54	40.4	-13.6	54	32.91	31.84	9.13	33.48	208	321	A	V	



802.11n HT20 CH 64 5320MHz	*	5320	106.26	-	-	98.92	31.78	9.04	33.48	218	256	P	H
	*	5320	98.55	-	-	91.21	31.78	9.04	33.48	218	256	A	H
		5351.21	57.97	-16.03	74	50.55	31.82	9.08	33.48	218	256	P	H
		5350	46.11	-7.89	54	38.69	31.82	9.08	33.48	218	256	A	H
													H
													H
	*	5320	110.44	-	-	103.1	31.78	9.04	33.48	107	336	P	V
	*	5320	102.6	-	-	95.26	31.78	9.04	33.48	107	336	A	V
		5351.1	60.45	-13.55	74	53.03	31.82	9.08	33.48	107	336	P	V
		5350	48.91	-5.09	54	41.49	31.82	9.08	33.48	107	336	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	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	41.04	-32.96	74	55.37	40.01	13.14	67.48	100	0	P	H
		15780	47.23	-26.77	74	58.13	37.87	16.57	65.34	100	0	P	H
													H
													H
		10520	41.21	-32.79	74	55.54	40.01	13.14	67.48	100	0	P	V
		15780	47.88	-26.12	74	58.78	37.87	16.57	65.34	100	0	P	V
													V
802.11n HT20 CH 60 5300MHz		10600	39.96	-34.04	74	54.1	40.06	13.2	67.4	100	0	P	H
		15900	47.26	-26.74	74	58.49	37.51	16.58	65.32	100	0	P	H
													H
													H
		10600	41.04	-32.96	74	55.18	40.06	13.2	67.4	100	0	P	V
		15900	48.35	-25.65	74	59.58	37.51	16.58	65.32	100	0	P	V
													V
802.11n HT20 CH 64 5320MHz		10640	40.64	-33.36	74	54.69	40.08	13.23	67.36	100	0	P	H
		15960	48.92	-25.08	74	60.34	37.3	16.59	65.31	100	0	P	H
													H
													H
		10640	39.61	-34.39	74	53.66	40.08	13.23	67.36	100	0	P	V
		15960	49.45	-24.55	74	60.87	37.3	16.59	65.31	100	0	P	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	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		5089.85	47.69	-26.31	74	40.72	31.52	8.92	33.47	258	143	P	H
		5079.5	39.9	-14.1	54	32.98	31.5	8.89	33.47	258	143	A	H
	*	5270	103.57	-	-	96.34	31.72	8.99	33.48	258	143	P	H
	*	5270	95.36	-	-	88.13	31.72	8.99	33.48	258	143	A	H
		5376.4	48.38	-25.62	74	40.89	31.84	9.13	33.48	258	143	P	H
		5364.63	39.63	-14.37	54	32.14	31.84	9.13	33.48	258	143	A	H
		5114.9	48.56	-25.44	74	41.57	31.54	8.92	33.47	100	333	P	V
		5148.95	40.79	-13.21	54	33.73	31.58	8.95	33.47	100	333	A	V
	*	5270	105.62	-	-	98.39	31.72	8.99	33.48	100	333	P	V
	*	5270	97.76	-	-	90.53	31.72	8.99	33.48	100	333	A	V
		5391.14	49.33	-24.67	74	41.82	31.86	9.13	33.48	100	333	P	V
		5355.61	40.97	-13.03	54	33.55	31.82	9.08	33.48	100	333	A	V
802.11n HT40 CH 62 5310MHz		5116.4	47.35	-26.65	74	40.36	31.54	8.92	33.47	296	145	P	H
		5082.95	39.29	-14.71	54	32.34	31.5	8.92	33.47	296	145	A	H
	*	5310	99.35	-	-	92.01	31.78	9.04	33.48	296	145	P	H
	*	5310	92.31	-	-	84.97	31.78	9.04	33.48	296	145	A	H
		5350.99	56.5	-17.5	74	49.08	31.82	9.08	33.48	296	145	P	H
		5350.11	48.55	-5.45	54	41.13	31.82	9.08	33.48	296	145	A	H
		5068.25	47.62	-26.38	74	40.72	31.48	8.89	33.47	112	336	P	V
		5123	39.86	-14.14	54	32.82	31.56	8.95	33.47	112	336	A	V
	*	5310	104.58	-	-	97.24	31.78	9.04	33.48	112	336	P	V
	*	5310	96.09	-	-	88.75	31.78	9.04	33.48	112	336	A	V
	5351.98	58.82	-15.18	74	51.4	31.82	9.08	33.48	112	336	P	V	
	5350.44	50.98	-3.02	54	43.56	31.82	9.08	33.48	112	336	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	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	41.29	-32.71	74	55.6	40.02	13.14	67.47	100	0	P	H	
		15810	44.43	-29.57	74	55.43	37.77	16.57	65.34	100	0	P	H	
													H	
													H	
			10540	40.92	-33.08	74	55.23	40.02	13.14	67.47	100	0	P	V
			15810	46.09	-27.91	74	57.09	37.77	16.57	65.34	100	0	P	V
														V
802.11n HT40 CH 62 5310MHz		10620	39.94	-34.06	74	54.05	40.07	13.2	67.38	100	0	P	H	
		15930	45.22	-28.78	74	56.54	37.41	16.58	65.31	100	0	P	H	
													H	
													H	
			10620	39.92	-34.08	74	54.03	40.07	13.2	67.38	100	0	P	V
			15930	45.26	-28.74	74	56.58	37.41	16.58	65.31	100	0	P	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	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		5121.65	47.65	-26.35	74	40.66	31.54	8.92	33.47	300	141	P	H
		5128.7	39.03	-14.97	54	31.99	31.56	8.95	33.47	300	141	A	H
	*	5260	106.16	-	-	98.93	31.72	8.99	33.48	300	141	P	H
	*	5260	99	-	-	91.77	31.72	8.99	33.48	300	141	A	H
		5383.55	47.71	-26.29	74	40.2	31.86	9.13	33.48	300	141	P	H
		5350.55	38.56	-15.44	54	31.14	31.82	9.08	33.48	300	141	A	H
		5087.3	47.57	-26.43	74	40.62	31.5	8.92	33.47	200	329	P	V
		5147.15	40.12	-13.88	54	33.06	31.58	8.95	33.47	200	329	A	V
	*	5259	109.31	-	-	102.08	31.72	8.99	33.48	200	329	P	V
	*	5259	102.44	-	-	95.21	31.72	8.99	33.48	200	329	A	V
		5399.06	47.9	-26.1	74	40.37	31.88	9.13	33.48	200	329	P	V
		5358.47	39.56	-14.44	54	32.14	31.82	9.08	33.48	200	329	A	V
802.11ac VHT20 CH 60 5300MHz		5019.65	47.74	-26.26	74	40.93	31.42	8.86	33.47	300	139	P	H
		5108.75	38.81	-15.19	54	31.82	31.54	8.92	33.47	300	139	A	H
	*	5300	105.38	-	-	98.06	31.76	9.04	33.48	300	139	P	H
	*	5300	99.2	-	-	91.88	31.76	9.04	33.48	300	139	A	H
		5377.61	47.85	-26.15	74	40.34	31.86	9.13	33.48	300	139	P	H
		5354.4	39.16	-14.84	54	31.74	31.82	9.08	33.48	300	139	A	H
		5128.25	47.32	-26.68	74	40.28	31.56	8.95	33.47	208	321	P	V
		5147.45	38.97	-15.03	54	31.91	31.58	8.95	33.47	208	321	A	V
	*	5300	109.26	-	-	101.94	31.76	9.04	33.48	208	321	P	V
	*	5300	99.51	-	-	92.19	31.76	9.04	33.48	208	321	A	V
	5364.41	49.2	-24.8	74	41.71	31.84	9.13	33.48	208	321	P	V	
	5356.93	40.56	-13.44	54	33.14	31.82	9.08	33.48	208	321	A	V	



802.11ac VHT20 CH 64 5320MHz	*	5320	105.7	-	-	98.36	31.78	9.04	33.48	221	252	P	H
	*	5320	98.3	-	-	90.96	31.78	9.04	33.48	221	252	A	H
		5350.88	55.59	-18.41	74	48.17	31.82	9.08	33.48	221	252	P	H
		5350	45.62	-8.38	54	38.2	31.82	9.08	33.48	221	252	A	H
													H
													H
	*	5320	110.96	-	-	103.62	31.78	9.04	33.48	107	336	P	V
	*	5320	101.96	-	-	94.62	31.78	9.04	33.48	107	336	A	V
		5350.11	57.6	-16.4	74	50.18	31.82	9.08	33.48	107	336	P	V
		5350	48.69	-5.31	54	41.27	31.82	9.08	33.48	107	336	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	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	41.8	-32.2	74	56.13	40.01	13.14	67.48	100	0	P	H	
		15780	48.99	-25.01	74	59.89	37.87	16.57	65.34	100	0	P	H	
													H	
													H	
			10520	40.98	-33.02	74	55.31	40.01	13.14	67.48	100	0	P	V
			15780	49.89	-24.11	74	60.79	37.87	16.57	65.34	100	0	P	V
														V
802.11ac VHT20 CH 60 5300MHz		10600	41.93	-32.07	74	56.07	40.06	13.2	67.4	100	0	P	H	
		15900	46.61	-27.39	74	57.84	37.51	16.58	65.32	100	0	P	H	
													H	
													H	
			10600	40.52	-33.48	74	54.66	40.06	13.2	67.4	100	0	P	V
			15900	49.37	-24.63	74	60.6	37.51	16.58	65.32	100	0	P	V
														V
802.11ac VHT20 CH 64 5320MHz		10640	41.53	-32.47	74	55.58	40.08	13.23	67.36	100	0	P	H	
		15960	56.47	-17.53	74	67.89	37.3	16.59	65.31	380	242	P	H	
		15960	44.05	-9.95	54	55.47	37.3	16.59	65.31	380	242	A	H	
													H	
			10640	40.9	-33.1	74	54.95	40.08	13.23	67.36	100	0	P	V
			15960	56.73	-17.27	74	68.15	37.3	16.59	65.31	132	187	P	V
			15960	45.8	-8.2	54	57.22	37.3	16.59	65.31	132	187	A	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		5120.45	47.43	-26.57	74	40.44	31.54	8.92	33.47	259	139	P	H
		5088.8	39.89	-14.11	54	32.92	31.52	8.92	33.47	259	139	A	H
	*	5270	104.34	-	-	97.11	31.72	8.99	33.48	259	139	P	H
	*	5270	97.61	-	-	90.38	31.72	8.99	33.48	259	139	A	H
		5350	47.67	-26.33	74	40.25	31.82	9.08	33.48	259	139	P	H
		5359.79	40.2	-13.8	54	32.78	31.82	9.08	33.48	259	139	A	H
		5133.05	48.67	-25.33	74	41.63	31.56	8.95	33.47	154	334	P	V
		5124.5	40.79	-13.21	54	33.75	31.56	8.95	33.47	154	334	A	V
	*	5270	106.41	-	-	99.18	31.72	8.99	33.48	154	334	P	V
	*	5270	100.71	-	-	93.48	31.72	8.99	33.48	154	334	A	V
		5374.2	48.73	-25.27	74	41.24	31.84	9.13	33.48	154	334	P	V
		5350.33	42.05	-11.95	54	34.63	31.82	9.08	33.48	154	334	A	V
802.11ac VHT40 CH 62 5310MHz		5064.5	48.09	-25.91	74	41.19	31.48	8.89	33.47	232	142	P	H
		5113.85	39.58	-14.42	54	32.59	31.54	8.92	33.47	232	142	A	H
	*	5310	101.47	-	-	94.13	31.78	9.04	33.48	232	142	P	H
	*	5310	94.77	-	-	87.43	31.78	9.04	33.48	232	142	A	H
		5351.43	57.98	-16.02	74	50.56	31.82	9.08	33.48	232	142	P	H
		5350.22	51.52	-2.48	54	44.1	31.82	9.08	33.48	232	142	A	H
		5081.6	48.35	-25.65	74	41.43	31.5	8.89	33.47	289	360	P	V
		5125.25	39.73	-14.27	54	32.69	31.56	8.95	33.47	289	360	A	V
	*	5310	102.94	-	-	95.6	31.78	9.04	33.48	289	360	P	V
	*	5310	96.09	-	-	88.75	31.78	9.04	33.48	289	360	A	V
	5353.74	61.02	-12.98	74	53.6	31.82	9.08	33.48	289	360	P	V	
	5350.11	52.73	-1.27	54	45.31	31.82	9.08	33.48	289	360	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	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	41.05	-32.95	74	55.36	40.02	13.14	67.47	100	0	P	H	
		15810	45.94	-28.06	74	56.94	37.77	16.57	65.34	100	0	P	H	
													H	
													H	
			10540	41.05	-32.95	74	55.36	40.02	13.14	67.47	100	0	P	V
			15810	47.73	-26.27	74	58.73	37.77	16.57	65.34	100	0	P	V
														V
802.11ac VHT40 CH 62 5310MHz		10620	40.07	-33.93	74	54.18	40.07	13.2	67.38	100	0	P	H	
		15930	40.18	-33.82	74	51.5	37.41	16.58	65.31	100	0	P	H	
													H	
													H	
			10620	40.15	-33.85	74	54.26	40.07	13.2	67.38	100	0	P	V
			15930	44.57	-29.43	74	55.89	37.41	16.58	65.31	100	0	P	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	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		5012.9	49	-25	74	42.19	31.42	8.86	33.47	300	138	P	H
		5098.85	40.66	-13.34	54	33.69	31.52	8.92	33.47	300	138	A	H
	*	5290	95.82	-	-	88.52	31.74	9.04	33.48	300	138	P	H
	*	5290	88.88	-	-	81.58	31.74	9.04	33.48	300	138	A	H
		5354.84	54.55	-19.45	74	47.13	31.82	9.08	33.48	300	138	P	H
		5351.98	47.58	-6.42	54	40.16	31.82	9.08	33.48	300	138	A	H
		5087.3	47.48	-26.52	74	40.53	31.5	8.92	33.47	196	315	P	V
		5091.35	41.09	-12.91	54	34.12	31.52	8.92	33.47	196	315	A	V
	*	5290	100.1	-	-	92.8	31.74	9.04	33.48	196	315	P	V
	*	5290	92.35	-	-	85.05	31.74	9.04	33.48	196	315	A	V
		5350.99	58.63	-15.37	74	51.21	31.82	9.08	33.48	196	315	P	V
	5358.47	51.39	-2.61	54	43.97	31.82	9.08	33.48	196	315	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	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		4846	52.85	-21.15	74	46.5	31.15	8.69	33.49	289	261	P	H
		4846	46.57	-7.43	54	40.22	31.15	8.69	33.49	289	261	A	H
		10580	40.53	-33.47	74	54.72	40.05	13.17	67.41	100	0	P	H
		15870	39.6	-34.4	74	50.78	37.56	16.58	65.32	100	0	P	H
		10580	39.91	-34.09	74	54.1	40.05	13.17	67.41	100	0	P	V
		15870	39.01	-34.99	74	50.19	37.56	16.58	65.32	100	0	P	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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 100 5500MHz		5468.4	50.19	-23.81	74	42.49	31.96	9.22	33.48	131	341	P	H	
		5469.84	43.91	-10.09	54	36.21	31.96	9.22	33.48	131	341	A	H	
	*	5500	104.99	-	-	97.21	32	9.26	33.48	131	341	P	H	
	*	5500	98	-	-	90.22	32	9.26	33.48	131	341	A	H	
													H	
													H	
			5469.2	58.6	-15.4	74	50.9	31.96	9.22	33.48	100	338	P	V
			5469.84	50.24	-3.76	54	42.54	31.96	9.22	33.48	100	338	A	V
	*		5500	110.15	-	-	102.37	32	9.26	33.48	100	338	P	V
	*		5500	102.79	-	-	95.01	32	9.26	33.48	100	338	A	V
													V	
													V	
802.11a CH 116 5580MHz		5419.92	47.23	-26.77	74	39.64	31.9	9.17	33.48	173	342	P	H	
		5459.76	38.48	-15.52	54	30.8	31.94	9.22	33.48	173	342	A	H	
	*	5580	107.31	-	-	99.41	32.1	9.32	33.52	173	342	P	H	
	*	5580	98.48	-	-	90.58	32.1	9.32	33.52	173	342	A	H	
			5754.84	47.28	-26.72	74	39.05	32.36	9.44	33.57	173	342	P	H
			5746.04	39.1	-14.9	54	30.89	32.34	9.44	33.57	173	342	A	H
			5462.48	48.23	-25.77	74	40.55	31.94	9.22	33.48	100	33	P	V
			5463.92	39.47	-14.53	54	31.77	31.96	9.22	33.48	100	33	A	V
	*		5580	109.13	-	-	101.23	32.1	9.32	33.52	100	33	P	V
	*		5580	100.58	-	-	92.68	32.1	9.32	33.52	100	33	A	V
			5738.68	48.13	-25.87	74	39.92	32.34	9.44	33.57	100	33	P	V
			5755.96	39.18	-14.82	54	30.96	32.36	9.44	33.58	100	33	A	V



802.11a CH 140 5700MHz	*	5700	108.12	-	-	100.02	32.27	9.39	33.56	287	76	P	H
	*	5700	102.19	-	-	94.09	32.27	9.39	33.56	287	76	A	H
		5725.16	60.86	-13.14	74	52.68	32.31	9.44	33.57	287	76	P	H
		5725	51.72	-2.28	54	43.54	32.31	9.44	33.57	287	76	A	H
													H
													H
	*	5700	107.56	-	-	99.46	32.27	9.39	33.56	195	308	P	V
	*	5700	101.42	-	-	93.32	32.27	9.39	33.56	195	308	A	V
		5726.12	61.09	-12.91	74	52.91	32.31	9.44	33.57	195	308	P	V
		5725.16	51.6	-2.4	54	43.42	32.31	9.44	33.57	195	308	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	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	42.11	-31.89	74	55.33	40.3	13.48	67	100	0	P	H
		16500	48.81	-25.19	74	57.1	38.9	16.81	64	100	0	P	H
													H
													H
		11000	41.84	-32.16	74	55.06	40.3	13.48	67	100	0	P	V
		16500	48.72	-25.28	74	57.01	38.9	16.81	64	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	42.64	-31.36	74	55.4	40.17	13.64	66.57	100	0	P	H
		16740	53.04	-20.96	74	60.56	39.58	16.8	63.9	100	0	P	H
													H
													H
		11160	42.49	-31.51	74	55.25	40.17	13.64	66.57	100	0	P	V
		16740	52.37	-21.63	74	59.89	39.58	16.8	63.9	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	41.53	-32.47	74	53.64	39.98	13.87	65.96	100	0	P	H
		17100	58.04	-15.96	74	64.51	40.6	16.85	63.92	284	218	P	H
		17100	44.64	-9.36	54	51.11	40.6	16.85	63.92	284	218	A	H
													H
		11400	42.55	-31.45	74	54.66	39.98	13.87	65.96	100	0	P	V
		17100	61.44	-12.56	74	67.91	40.6	16.85	63.92	116	177	P	V
		17100	46.74	-7.26	54	53.21	40.6	16.85	63.92	116	177	A	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	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		5466.96	54.05	-19.95	74	46.35	31.96	9.22	33.48	219	248	P	H	
		5469.84	46.28	-7.72	54	38.58	31.96	9.22	33.48	219	248	A	H	
	*	5500	106.99	-	-	99.21	32	9.26	33.48	219	248	P	H	
	*	5500	99.7	-	-	91.92	32	9.26	33.48	219	248	A	H	
													H	
														H
			5468.72	55.72	-18.28	74	48.02	31.96	9.22	33.48	100	339	P	V
			5470	48.06	-5.94	54	40.36	31.96	9.22	33.48	100	339	A	V
		*	5500	109.1	-	-	101.32	32	9.26	33.48	100	339	P	V
		*	5500	101.99	-	-	94.21	32	9.26	33.48	100	339	A	V
													V	
													V	
802.11n HT20 CH 116 5580MHz		5438.96	47.65	-26.35	74	40.04	31.92	9.17	33.48	310	75	P	H	
		5468.24	38.8	-15.2	54	31.1	31.96	9.22	33.48	310	75	A	H	
	*	5580	107.77	-	-	99.87	32.1	9.32	33.52	310	75	P	H	
	*	5580	99.34	-	-	91.44	32.1	9.32	33.52	310	75	A	H	
			5741.64	47.6	-26.4	74	39.39	32.34	9.44	33.57	310	75	P	H
			5759.08	39.07	-14.93	54	30.85	32.36	9.44	33.58	310	75	A	H
			5460.4	48.47	-25.53	74	40.79	31.94	9.22	33.48	100	31	P	V
			5469.2	39.35	-14.65	54	31.65	31.96	9.22	33.48	100	31	A	V
		*	5580	107.83	-	-	99.93	32.1	9.32	33.52	100	31	P	V
		*	5580	100.35	-	-	92.45	32.1	9.32	33.52	100	31	A	V
		5750.6	47.43	-26.57	74	39.22	32.34	9.44	33.57	100	31	P	V	
		5747.96	39.29	-14.71	54	31.08	32.34	9.44	33.57	100	31	A	V	



802.11n HT20 CH 140 5700MHz	*	5700	107.05	-	-	98.95	32.27	9.39	33.56	251	105	P	H
	*	5700	99.29	-	-	91.19	32.27	9.39	33.56	251	105	A	H
		5725.08	60.21	-8.09	68.3	52.03	32.31	9.44	33.57	251	105	P	H
													H
													H
													H
	*	5700	108.11	-	-	100.01	32.27	9.39	33.56	199	85	P	V
	*	5700	101	-	-	92.9	32.27	9.39	33.56	199	85	A	V
		5726.76	63.98	-4.32	68.3	55.8	32.31	9.44	33.57	199	85	P	V
													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	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	42.68	-31.32	74	55.9	40.3	13.48	67	100	0	P	H	
		16500	49.69	-24.31	74	57.98	38.9	16.81	64	100	0	P	H	
													H	
													H	
			11000	42.41	-31.59	74	55.63	40.3	13.48	67	100	0	P	V
			16500	46.97	-27.03	74	55.26	38.9	16.81	64	100	0	P	V
														V
802.11n HT20 CH 116 5580MHz		11160	43.12	-30.88	74	55.88	40.17	13.64	66.57	100	0	P	H	
		16740	51.1	-22.9	74	58.62	39.58	16.8	63.9	100	0	P	H	
													H	
													H	
			11160	42.32	-31.68	74	55.08	40.17	13.64	66.57	100	0	P	V
			16740	51.48	-22.52	74	59	39.58	16.8	63.9	100	0	P	V
														V
802.11n HT20 CH 140 5700MHz		11400	42.93	-31.07	74	55.04	39.98	13.87	65.96	100	0	P	H	
		17100	57.43	-16.57	74	63.9	40.6	16.85	63.92	149	31	P	H	
		17100	45.62	-8.38	54	52.09	40.6	16.85	63.92	149	31	A	H	
													H	
			11400	42.71	-31.29	74	54.82	39.98	13.87	65.96	100	0	P	V
			17100	57.42	-16.58	74	63.89	40.6	16.85	63.92	393	175	P	V
			17100	47.73	-6.27	54	54.2	40.6	16.85	63.92	393	175	A	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	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		5460	53.98	-20.02	74	46.3	31.94	9.22	33.48	290	84	P	H
		5468.88	62.13	-6.17	68.3	54.43	31.96	9.22	33.48	290	84	P	H
		5460	46.59	-7.41	54	38.91	31.94	9.22	33.48	290	84	A	H
	*	5510	102.01	-	-	94.24	32	9.26	33.49	290	84	P	H
	*	5510	94.85	-	-	87.08	32	9.26	33.49	290	84	A	H
		5753	47.46	-20.84	68.3	39.23	32.36	9.44	33.57	290	84	P	H
		5460	55.73	-18.27	74	48.05	31.94	9.22	33.48	174	32	P	V
		5469.52	63.77	-4.53	68.3	56.07	31.96	9.22	33.48	174	32	P	V
		5459.89	49.67	-4.33	54	41.99	31.94	9.22	33.48	174	32	A	V
	*	5510	104.84	-	-	97.07	32	9.26	33.49	174	32	P	V
	*	5510	97.78	-	-	90.01	32	9.26	33.49	174	32	A	V
		5737.16	48.36	-19.94	68.3	40.15	32.34	9.44	33.57	174	32	P	V
802.11n HT40 CH 110 5550MHz		5462.48	49.01	-24.99	74	41.33	31.94	9.22	33.48	231	71	P	H
		5466.32	41.4	-12.6	54	33.7	31.96	9.22	33.48	231	71	A	H
	*	5550	105.87	-	-	98.01	32.07	9.29	33.5	231	71	P	H
	*	5550	98.66	-	-	90.8	32.07	9.29	33.5	231	71	A	H
		5754.44	47.13	-26.87	74	38.9	32.36	9.44	33.57	231	71	P	H
		5743.64	39.71	-14.29	54	31.5	32.34	9.44	33.57	231	71	A	H
		5470	48.98	-25.02	74	41.28	31.96	9.22	33.48	238	46	P	V
		5469.52	41.59	-12.41	54	33.89	31.96	9.22	33.48	238	46	A	V
	*	5550	106.51	-	-	98.65	32.07	9.29	33.5	238	46	P	V
	*	5550	99.74	-	-	91.88	32.07	9.29	33.5	238	46	A	V
	5738.68	48.01	-25.99	74	39.8	32.34	9.44	33.57	238	46	P	V	
	5762.36	39.92	-14.08	54	31.65	32.36	9.49	33.58	238	46	A	V	



802.11n HT40 CH 134 5670MHz		5413.52	45.93	-28.07	74	38.34	31.9	9.17	33.48	250	346	P	H
		5469.52	38.59	-15.41	54	30.89	31.96	9.22	33.48	250	346	A	H
	*	5670	105.76	-	-	97.72	32.24	9.35	33.55	250	346	P	H
	*	5670	98.23	-	-	90.19	32.24	9.35	33.55	250	346	A	H
		5725	59.79	-14.21	74	51.61	32.31	9.44	33.57	250	346	P	H
		5727.24	48.94	-5.06	54	40.76	32.31	9.44	33.57	250	346	A	H
		5427.44	46.72	-27.28	74	39.13	31.9	9.17	33.48	251	59	P	V
		5452.72	39.15	-14.85	54	31.47	31.94	9.22	33.48	251	59	A	V
	*	5670	106.66	-	-	98.62	32.24	9.35	33.55	251	59	P	V
	*	5670	100.33	-	-	92.29	32.24	9.35	33.55	251	59	A	V
		5726.68	62.85	-11.15	74	54.67	32.31	9.44	33.57	251	59	P	V
		5727.24	51.52	-2.48	54	43.34	32.31	9.44	33.57	251	59	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	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		11022	41.71	-32.29	74	54.87	40.27	13.48	66.91	100	0	P	H
		16530	40.07	-33.93	74	48.25	39	16.81	63.99	100	0	P	H
													H
													H
		11022	41.86	-32.14	74	55.02	40.27	13.48	66.91	100	0	P	V
		16530	45.04	-28.96	74	53.22	39	16.81	63.99	100	0	P	V
													V
802.11n HT40 CH 110 5550MHz		11100	43.12	-30.88	74	56.08	40.22	13.56	66.74	100	0	P	H
		16650	45.08	-28.92	74	52.89	39.33	16.8	63.94	100	0	P	H
													H
													H
		11100	42.48	-31.52	74	55.44	40.22	13.56	66.74	100	0	P	V
		16650	47.57	-26.43	74	55.38	39.33	16.8	63.94	100	0	P	V
													V
802.11n HT40 CH 134 5670MHz		11340	42.88	-31.12	74	55.19	40.03	13.79	66.13	100	0	P	H
		17010	53.18	-20.82	74	59.85	40.35	16.8	63.82	192	175	P	H
		17010	45.16	-8.84	54	51.83	40.35	16.8	63.82	192	175	A	H
													H
		11340	41.83	-32.17	74	54.14	40.03	13.79	66.13	100	0	P	V
		17010	52.06	-21.94	74	58.73	40.35	16.8	63.82	20	80	P	V
		17010	45.28	-8.72	54	51.95	40.35	16.8	63.82	200	80	A	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	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		5468.72	56.26	-17.74	74	48.56	31.96	9.22	33.48	220	246	P	H	
		5469.68	48.16	-5.84	54	40.46	31.96	9.22	33.48	220	246	A	H	
	*	5500	107.92	-	-	100.14	32	9.26	33.48	220	246	P	H	
	*	5500	100.75	-	-	92.97	32	9.26	33.48	220	246	A	H	
													H	
														H
			5469.84	57.98	-16.02	74	50.28	31.96	9.22	33.48	110	340	P	V
			5469.36	50.79	-3.21	54	43.09	31.96	9.22	33.48	110	340	A	V
		*	5500	110.49	-	-	102.71	32	9.26	33.48	110	340	P	V
		*	5500	103.1	-	-	95.32	32	9.26	33.48	110	340	A	V
													V	
													V	
802.11ac VHT20 CH 116 5580MHz		5460.56	48.4	-25.6	74	40.72	31.94	9.22	33.48	210	45	P	H	
		5467.6	38.72	-15.28	54	31.02	31.96	9.22	33.48	210	45	A	H	
	*	5580	108.54	-	-	100.64	32.1	9.32	33.52	210	45	P	H	
	*	5580	100.13	-	-	92.23	32.1	9.32	33.52	210	45	A	H	
			5742.2	47.88	-26.12	74	39.67	32.34	9.44	33.57	210	45	P	H
			5763.08	39.16	-14.84	54	30.89	32.36	9.49	33.58	210	45	A	H
			5461.84	48.46	-25.54	74	40.78	31.94	9.22	33.48	100	30	P	V
			5469.84	39.81	-14.19	54	32.11	31.96	9.22	33.48	100	30	A	V
		*	5580	109.13	-	-	101.23	32.1	9.32	33.52	100	30	P	V
		*	5580	101.02	-	-	93.12	32.1	9.32	33.52	100	30	A	V
		5737.56	47.56	-26.44	74	39.35	32.34	9.44	33.57	100	30	P	V	
		5760.52	39.05	-14.95	54	30.83	32.36	9.44	33.58	100	30	A	V	



802.11ac VHT20 CH 140 5700MHz	*	5700	104.36	-	-	96.26	32.27	9.39	33.56	213	246	P	H
	*	5700	96.11	-	-	88.01	32.27	9.39	33.56	213	246	A	H
		5725.08	60.99	-7.31	68.3	52.81	32.31	9.44	33.57	213	246	P	H
													H
													H
													H
	*	5700	106.42	-	-	98.32	32.27	9.39	33.56	100	318	P	V
	*	5700	98.75	-	-	90.65	32.27	9.39	33.56	100	318	A	V
		5725	64.91	-3.39	68.3	56.73	32.31	9.44	33.57	100	318	P	V
													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	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		10998	42.35	-31.65	74	55.6	40.3	13.45	67	100	0	P	H	
		16500	43.85	-30.15	74	52.14	38.9	16.81	64	100	0	P	H	
													H	
													H	
			10998	41.89	-32.11	74	55.14	40.3	13.45	67	100	0	P	V
			16500	46.5	-27.5	74	54.79	38.9	16.81	64	100	0	P	V
														V
802.11ac VHT20 CH 116 5580MHz		11160	42.68	-31.32	74	55.44	40.17	13.64	66.57	100	0	P	H	
		16740	48.05	-25.95	74	55.57	39.58	16.8	63.9	100	0	P	H	
													H	
													H	
			11160	43.29	-30.71	74	56.05	40.17	13.64	66.57	100	0	P	V
			16740	51.33	-22.67	74	58.85	39.58	16.8	63.9	100	0	P	V
			16740	44.2	-9.8	54	51.72	39.58	16.8	63.9	390	48	A	V
802.11ac VHT20 CH 140 5700MHz		11400	42.39	-31.61	74	54.5	39.98	13.87	65.96	100	0	P	H	
		17100	54.54	-19.46	74	61.01	40.6	16.85	63.92	100	0	P	H	
		17100	41.12	-12.88	54	47.59	40.6	16.85	63.92	100	319	A	H	
													H	
			11400	42.24	-31.76	74	54.35	39.98	13.87	65.96	100	0	P	V
			17100	55.05	-18.95	74	61.52	40.6	16.85	63.92	100	0	P	V
			17100	41.22	-12.78	54	47.69	40.6	16.85	63.92	173	351	A	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	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		5455.76	57.83	-16.17	74	50.15	31.94	9.22	33.48	236	69	P	H
		5469.68	66.22	-2.08	68.3	58.52	31.96	9.22	33.48	236	69	P	H
		5460	52.24	-1.76	54	44.56	31.94	9.22	33.48	236	69	A	H
	*	5510	104.02	-	-	96.25	32	9.26	33.49	236	69	P	H
	*	5510	97.6	-	-	89.83	32	9.26	33.49	236	69	A	H
		5749.56	47.07	-21.23	68.3	38.86	32.34	9.44	33.57	236	69	P	H
		5454.16	58.41	-15.59	74	50.73	31.94	9.22	33.48	265	53	P	V
		5469.68	67.01	-1.29	68.3	59.31	31.96	9.22	33.48	265	53	P	V
		5459.89	52.4	-1.6	54	44.72	31.94	9.22	33.48	265	53	A	V
	*	5510	105.74	-	-	97.97	32	9.26	33.49	265	53	P	V
	*	5510	98.72	-	-	90.95	32	9.26	33.49	265	53	A	V
		5746.76	47.38	-20.92	68.3	39.17	32.34	9.44	33.57	265	53	P	V
802.11ac VHT40 CH 110 5550MHz		5469.36	49.7	-24.3	74	42	31.96	9.22	33.48	247	67	A	H
		5468.4	40.85	-13.15	54	33.15	31.96	9.22	33.48	247	67	P	H
	*	5550	104.97	-	-	97.11	32.07	9.29	33.5	247	67	A	H
	*	5550	98.81	-	-	90.95	32.07	9.29	33.5	247	67	P	H
		5755	47.58	-26.42	74	39.35	32.36	9.44	33.57	247	67	A	H
		5763.8	39.79	-14.21	54	31.52	32.36	9.49	33.58	247	67	P	H
		5461.04	51.48	-22.52	74	43.8	31.94	9.22	33.48	246	50	P	V
		5466.8	41.34	-12.66	54	33.64	31.96	9.22	33.48	246	50	A	V
	*	5550	104.64	-	-	96.78	32.07	9.29	33.5	246	50	P	V
	*	5550	98.85	-	-	90.99	32.07	9.29	33.5	246	50	A	V
		5725.48	47.87	-26.13	74	39.69	32.31	9.44	33.57	246	50	P	V
		5747.32	40.59	-13.41	54	32.38	32.34	9.44	33.57	246	50	A	V



802.11ac VHT40 CH 134 5670MHz		5392.08	46.66	-27.34	74	39.15	31.86	9.13	33.48	252	150	P	H
		5463.92	38.91	-15.09	54	31.21	31.96	9.22	33.48	252	150	A	H
	*	5670	104.64	-	-	96.6	32.24	9.35	33.55	252	150	P	H
	*	5670	97.15	-	-	89.11	32.24	9.35	33.55	252	150	A	H
		5729.16	62.25	-11.75	74	54.07	32.31	9.44	33.57	252	150	P	H
		5725.32	50.11	-3.89	54	41.93	32.31	9.44	33.57	252	150	A	H
		5452.88	47.59	-26.41	74	39.91	31.94	9.22	33.48	304	77	P	V
		5469.52	39.18	-14.82	54	31.48	31.96	9.22	33.48	304	77	A	V
	*	5670	105.88	-	-	97.84	32.24	9.35	33.55	304	77	P	V
	*	5670	99.62	-	-	91.58	32.24	9.35	33.55	304	77	A	V
		5730.12	61.9	-12.1	74	53.72	32.31	9.44	33.57	304	77	P	V
		5726.68	52.26	-1.74	54	44.08	32.31	9.44	33.57	304	77	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	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		11022	41.79	-32.21	74	54.95	40.27	13.48	66.91	100	0	P	H
		16530	39.52	-34.48	74	47.7	39	16.81	63.99	100	0	P	H
													H
													H
		5974	54.17	-19.83	74	45.52	32.68	9.63	33.66	265	53	P	V
		5974	48.35	-5.65	54	39.7	32.68	9.63	33.66	265	53	A	V
		11022	41.69	-32.31	74	54.85	40.27	13.48	66.91	100	0	P	V
		16530	43.29	-30.71	74	51.47	39	16.81	63.99	100	0	P	V
802.11ac VHT40 CH 110 5550MHz		11100	42.7	-31.3	74	55.66	40.22	13.56	66.74	100	0	P	H
		16650	46.14	-27.86	74	53.95	39.33	16.8	63.94	100	0	P	H
													H
													H
		6010	54.14	-19.86	74	44.48	-500	9.66	-500	246	50	P	V
		6010	49.95	-4.05	54	41.21	32.75	9.66	33.67	246	50	A	V
		11100	41.98	-32.02	74	54.94	40.22	13.56	66.74	100	0	P	V
		16650	45.49	-28.51	74	53.3	39.33	16.8	63.94	100	0	P	V
802.11ac VHT40 CH 134 5670MHz		11340	42.1	-31.9	74	28.31	-500	13.79	-500	100	0	P	H
		17010	53.5	-20.5	74	60.17	40.35	16.8	63.82	100	0	P	H
		17010	42.72	-31.28	74	49.39	40.35	16.8	63.82	100	0	A	H
													H
		6136	53.02	-20.98	74	43.92	33.07	9.77	33.74	304	77	P	V
		6136	47.27	-6.73	54	38.17	33.07	9.77	33.74	304	77	A	V
		11340	42.6	-31.4	74	54.91	40.03	13.79	66.13	100	0	P	V
		17010	54.04	-19.96	74	60.71	40.35	16.8	63.82	151	172	P	V
	17010	46.69	-27.31	74	53.36	40.35	16.8	63.82	151	172	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5460	55.19	-18.81	74	47.51	31.94	9.22	33.48	304	85	P	H
		5467.44	58	-10.3	68.3	50.3	31.96	9.22	33.48	304	85	P	H
		5455.6	49.15	-4.85	54	41.47	31.94	9.22	33.48	304	85	A	H
	*	5529	96.34	-	-	88.53	32.02	9.29	33.5	304	85	P	H
	*	5529	89	-	-	81.19	32.02	9.29	33.5	304	85	A	H
		5746.52	47.36	-20.94	68.3	39.15	32.34	9.44	33.57	304	85	P	H
		5459.28	59.25	-14.75	74	51.57	31.94	9.22	33.48	196	32	P	V
		5469.04	60.08	-8.22	68.3	52.38	31.96	9.22	33.48	196	32	P	V
		5457.8	51.87	-2.13	54	44.19	31.94	9.22	33.48	196	32	A	V
	*	5530	98.87	-	-	91.06	32.02	9.29	33.5	196	32	P	V
	*	5530	91.64	-	-	83.83	32.02	9.29	33.5	196	32	A	V
		5747.8	46.95	-21.35	68.3	38.74	32.34	9.44	33.57	196	32	P	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	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		11058	41.61	-32.39	74	54.67	40.25	13.52	66.83	100	0	P	H	
		16590	39.83	-34.17	74	47.85	39.14	16.81	63.97	100	0	P	H	
													H	
													H	
			5974	58.97	-15.03	74	50.32	32.68	9.63	33.66	211	42	P	V
			5974	52.03	-21.97	74	43.38	32.68	9.63	33.66	211	42	A	V
			11058	41.97	-32.03	74	55.03	40.25	13.52	66.83	100	0	P	V
			16590	38.74	-35.26	74	46.76	39.14	16.81	63.97	100	0	P	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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ac VHT80 LF		91.29	26.94	-16.56	43.5	42.52	14.92	1.28	31.78			P	H	
		250.05	36.17	-9.83	46	47.5	18.5	1.94	31.77			P	H	
		274.89	34.58	-11.42	46	45.3	19.1	1.94	31.76			P	H	
		453.3	33.79	-12.21	46	39.92	23.15	2.57	31.85			P	H	
		720.7	37.22	-8.78	46	39.2	26.89	3.14	32.01			P	H	
		799.8	42.1	-3.9	46	42.87	27.8	3.35	31.92	130	154	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
			31.08	35.37	-4.63	40	41.27	25.26	0.67	31.83	200	65	P	V
			119.91	32.51	-10.99	43.5	45.41	17.6	1.28	31.78			P	V
			250.05	32.53	-13.47	46	43.86	18.5	1.94	31.77			P	V
			540.1	35.15	-10.85	46	39.93	24.4	2.77	31.95			P	V
			720	36.16	-9.84	46	38.17	26.87	3.14	32.02			P	V
			874.7	36.89	-9.11	46	36.25	28.75	3.44	31.55			P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



<Ant. 2>

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 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		5147	57.83	-16.17	74	50.77	31.58	8.95	33.47	106	9	P	H
		5148.05	52.76	-1.24	54	45.7	31.58	8.95	33.47	106	9	A	H
	*	5210	97.41	-	-	90.24	31.66	8.98	33.47	106	9	P	H
	*	5210	90.92	-	-	83.75	31.66	8.98	33.47	106	9	A	H
		5437.12	47.11	-26.89	74	39.5	31.92	9.17	33.48	106	9	P	H
		5354.51	40.55	-13.45	54	33.13	31.82	9.08	33.48	106	9	A	H
		5135.6	56.03	-17.97	74	48.99	31.56	8.95	33.47	100	24	P	V
		5148.5	49.82	-4.18	54	42.76	31.58	8.95	33.47	100	24	A	V
	*	5210	94.03	-	-	86.86	31.66	8.98	33.47	100	24	P	V
	*	5210	87.16	-	-	79.99	31.66	8.98	33.47	100	24	A	V
		5368.26	46.92	-27.08	74	39.43	31.84	9.13	33.48	100	24	P	V
		5417.54	40.19	-13.81	54	32.6	31.9	9.17	33.48	100	24	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. 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		4768	54.7	-19.3	74	48.56	31.04	8.6	33.5	106	9	P	H
		4768	46.97	-7.03	54	40.83	31.04	8.6	33.5	106	9	A	H
		10420	43.48	-30.52	74	58.01	39.87	13.1	67.5	100	0	P	H
		15630	41.1	-32.9	74	51.63	38.29	16.55	65.37	100	0	P	H
		10420	41.27	-32.73	74	55.8	39.87	13.1	67.5	100	0	P	V
		15630	39.6	-34.4	74	50.13	38.29	16.55	65.37	100	0	P	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.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ac VHT80 LF		91.29	33.17	-10.33	43.5	48.75	14.92	1.28	31.78	-	-	P	H	
		234.39	35.89	-10.11	46	48.72	17.15	1.79	31.77	-	-	P	H	
		297.57	38.39	-7.61	46	48.58	19.46	2.11	31.76	-	-	P	H	
		533.8	41.63	-4.37	46	46.47	24.33	2.77	31.94	-	-	P	H	
		720	42.32	-3.68	46	44.33	26.87	3.14	32.02	-	-	P	H	
		850.2	42.46	-3.54	46	42.08	28.61	3.44	31.67	110	156	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
			46.47	33.48	-6.52	40	47.62	16.63	1.04	31.81	-	-	P	V
			89.67	32.85	-10.65	43.5	48.55	14.8	1.28	31.78	-	-	P	V
			297.57	36.78	-9.22	46	46.97	19.46	2.11	31.76	-	-	P	V
			466.6	37.59	-8.41	46	43.49	23.39	2.57	31.86	-	-	P	V
			600.3	40.85	-5.15	46	44.6	25.4	2.89	32.04	185	178	P	V
			799.8	39.42	-6.58	46	40.19	27.8	3.35	31.92	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against 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		5116.25	49.13	-24.87	74	42.14	31.54	8.92	33.47	108	4	P	H	
		5148.5	41.82	-12.18	54	34.76	31.58	8.95	33.47	108	4	A	H	
	*	5180	104.66	-	-	97.54	31.62	8.97	33.47	108	4	P	H	
	*	5180	98.66	-	-	91.54	31.62	8.97	33.47	108	4	A	H	
													H	
													H	
			5147.75	52.02	-21.98	74	44.96	31.58	8.95	33.47	173	353	P	V
			5150	45.14	-8.86	54	38.08	31.58	8.95	33.47	173	353	A	V
		*	5180	108.64	-	-	101.52	31.62	8.97	33.47	173	353	P	V
		*	5180	103	-	-	95.88	31.62	8.97	33.47	173	353	A	V
													V	
													V	
802.11n HT20 CH 44 5220MHz		5116.4	48.35	-25.65	74	41.36	31.54	8.92	33.47	125	4	P	H	
		5115.5	40.46	-13.54	54	33.47	31.54	8.92	33.47	125	4	A	H	
		* 5220	103.9	-	-	96.73	31.66	8.98	33.47	125	4	P	H	
		* 5220	98.66	-	-	91.49	31.66	8.98	33.47	125	4	A	H	
			5445.81	47.48	-26.52	74	39.8	31.94	9.22	33.48	125	4	P	H
			5428.98	38.75	-15.25	54	31.14	31.92	9.17	33.48	125	4	A	H
			5112.8	49.08	-24.92	74	42.09	31.54	8.92	33.47	139	356	P	V
			5139.35	41.09	-12.91	54	34.05	31.56	8.95	33.47	139	356	A	V
		*	5220	108.38	-	-	101.21	31.66	8.98	33.47	139	356	P	V
		*	5220	102.59	-	-	95.42	31.66	8.98	33.47	139	356	A	V
		5425.79	47.3	-26.7	74	39.71	31.9	9.17	33.48	139	356	P	V	
		5374.86	39.25	-14.75	54	31.76	31.84	9.13	33.48	139	356	A	V	



802.11n HT20 CH 48 5240MHz		5146.55	48.39	-25.61	74	41.33	31.58	8.95	33.47	135	5	P	H
		5143.4	40.05	-13.95	54	32.99	31.58	8.95	33.47	135	5	A	H
	*	5240	104.75	-	-	97.56	31.68	8.98	33.47	135	5	P	H
	*	5240	98.16	-	-	90.97	31.68	8.98	33.47	135	5	A	H
		5372.33	47.05	-26.95	74	39.56	31.84	9.13	33.48	135	5	P	H
		5378.16	38.73	-15.27	54	31.22	31.86	9.13	33.48	135	5	A	H
		5086.25	48.24	-25.76	74	41.29	31.5	8.92	33.47	136	342	P	V
		5141.15	40.82	-13.18	54	33.76	31.58	8.95	33.47	136	342	A	V
	*	5240	108.77	-	-	101.58	31.68	8.98	33.47	136	342	P	V
	*	5240	102.55	-	-	95.36	31.68	8.98	33.47	136	342	A	V
		5447.46	48.04	-25.96	74	40.36	31.94	9.22	33.48	136	342	P	V
		5357.15	39.01	-14.99	54	31.59	31.82	9.08	33.48	136	342	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11n 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	41.72	-32.28	74	56.34	39.79	13.09	67.5	100	0	P	H	
		15540	44.94	-29.06	74	55.18	38.6	16.55	65.39	100	0	P	H	
													H	
													H	
			10360	41.92	-32.08	74	56.54	39.79	13.09	67.5	100	0	P	V
			15540	45.91	-28.09	74	56.15	38.6	16.55	65.39	100	0	P	V
														V
802.11n HT20 CH 44 5220MHz		10440	40.99	-33.01	74	55.49	39.89	13.11	67.5	100	0	P	H	
		15660	48.92	-25.08	74	59.5	38.23	16.56	65.37	100	0	P	H	
													H	
													H	
			10440	42.6	-31.4	74	57.1	39.89	13.11	67.5	100	0	P	V
			15660	48.45	-25.55	74	59.03	38.23	16.56	65.37	100	0	P	V
														V
802.11n HT20 CH 48 5240MHz		10480	41.13	-32.87	74	55.55	39.97	13.11	67.5	100	0	P	H	
		15720	48.43	-25.57	74	59.19	38.03	16.57	65.36	100	0	P	H	
													H	
													H	
			10480	40.92	-33.08	74	55.34	39.97	13.11	67.5	100	0	P	V
			15720	47.79	-26.21	74	58.55	38.03	16.57	65.36	100	0	P	V
														V
Remark	3. No other spurious found.													
	4. 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	58.28	-15.72	74	51.22	31.58	8.95	33.47	281	326	P	H
		5149.7	49.64	-4.36	54	42.58	31.58	8.95	33.47	281	326	A	H
	*	5190	100.39	-	-	93.27	31.62	8.97	33.47	281	326	P	H
	*	5190	93.14	-	-	86.02	31.62	8.97	33.47	281	326	A	H
		5455.27	48.2	-25.8	74	40.52	31.94	9.22	33.48	281	326	P	H
		5459.78	38.7	-15.3	54	31.02	31.94	9.22	33.48	281	326	A	H
		5148.2	59.38	-14.62	74	52.32	31.58	8.95	33.47	100	329	P	V
		5149.85	51.73	-2.27	54	44.67	31.58	8.95	33.47	100	329	A	V
	*	5190	104.87	-	-	97.75	31.62	8.97	33.47	100	329	P	V
	*	5190	96.65	-	-	89.53	31.62	8.97	33.47	100	329	A	V
		5389.82	47.37	-26.63	74	39.86	31.86	9.13	33.48	100	329	P	V
		5390.37	38.98	-15.02	54	31.47	31.86	9.13	33.48	100	329	A	V
802.11n HT40 CH 46 5230MHz		5033.75	47.09	-26.91	74	40.26	31.44	8.86	33.47	303	143	P	H
		5114.15	39.73	-14.27	54	32.74	31.54	8.92	33.47	303	143	A	H
	*	5230	103.4	-	-	96.21	31.68	8.98	33.47	303	143	P	H
	*	5230	94.83	-	-	87.64	31.68	8.98	33.47	303	143	A	H
		5394.77	46.71	-27.29	74	39.18	31.88	9.13	33.48	303	143	P	H
		5458.79	39.27	-14.73	54	31.59	31.94	9.22	33.48	303	143	A	H
		5097.5	50.67	-23.33	74	43.7	31.52	8.92	33.47	100	331	P	V
		5147.3	41.87	-12.13	54	34.81	31.58	8.95	33.47	100	331	A	V
	*	5230	106	-	-	98.81	31.68	8.98	33.47	100	331	P	V
	*	5230	98.56	-	-	91.37	31.68	8.98	33.47	100	331	A	V
	5353.96	47.64	-26.36	74	40.22	31.82	9.08	33.48	100	331	P	V	
	5369.36	39.44	-14.56	54	31.95	31.84	9.13	33.48	100	331	A	V	
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11n 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	41.38	-32.62	74	55.98	39.81	13.09	67.5	100	0	P	H	
		15570	45.17	-28.83	74	55.52	38.49	16.55	65.39	100	0	P	H	
													H	
													H	
			10380	41.88	-32.12	74	56.48	39.81	13.09	67.5	100	0	P	V
			15570	42.72	-31.28	74	53.07	38.49	16.55	65.39	100	0	P	V
														V
														V
802.11n HT40 CH 46 5230MHz		10460	42.16	-31.84	74	56.63	39.92	13.11	67.5	100	0	P	H	
		15690	46.92	-27.08	74	57.59	38.13	16.56	65.36	100	0	P	H	
													H	
													H	
			4768	52.91	-21.09	74	46.77	31.04	8.6	33.5	100	331	P	V
			4768	46.66	-7.34	54	40.52	31.04	8.6	33.5	100	331	A	V
			10460	40.21	-33.79	74	54.68	39.92	13.11	67.5	100	0	P	V
			15690	46.32	-27.68	74	56.99	38.13	16.56	65.36	100	0	P	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 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		5150	50.6	-23.4	74	43.54	31.58	8.95	33.47	345	137	P	H	
		5148.8	42.71	-11.29	54	35.65	31.58	8.95	33.47	345	137	A	H	
	*	5180	105.55	-	-	98.43	31.62	8.97	33.47	345	137	P	H	
	*	5180	98.62	-	-	91.5	31.62	8.97	33.47	345	137	A	H	
													H	
														H
			5149.4	55.37	-18.63	74	48.31	31.58	8.95	33.47	100	332	P	V
			5150	47.01	-6.99	54	39.95	31.58	8.95	33.47	100	332	A	V
	*		5180	111.03	-	-	103.91	31.62	8.97	33.47	100	332	P	V
	*		5180	103.72	-	-	96.6	31.62	8.97	33.47	100	332	A	V
														V
														V
802.11ac VHT20 CH 44 5220MHz		5130.35	47.97	-26.03	74	40.93	31.56	8.95	33.47	219	355	P	H	
		5099	39.33	-14.67	54	32.36	31.52	8.92	33.47	219	355	A	H	
	*	5220	106.52	-	-	99.35	31.66	8.98	33.47	219	355	P	H	
	*	5220	99.15	-	-	91.98	31.66	8.98	33.47	219	355	A	H	
			5353.41	47.65	-26.35	74	40.23	31.82	9.08	33.48	219	355	P	H
			5460	38.07	-15.93	54	30.39	31.94	9.22	33.48	219	355	A	H
			5145.95	49.18	-24.82	74	42.12	31.58	8.95	33.47	100	332	P	V
			5149.4	41.25	-12.75	54	34.19	31.58	8.95	33.47	100	332	A	V
	*		5220	110.93	-	-	103.76	31.66	8.98	33.47	100	332	P	V
	*		5220	103.87	-	-	96.7	31.66	8.98	33.47	100	332	A	V
			5387.4	47.15	-26.85	74	39.64	31.86	9.13	33.48	100	332	P	V
			5357.92	38.6	-15.4	54	31.18	31.82	9.08	33.48	100	332	A	V



802.11ac VHT20 CH 48 5240MHz		5077.25	47.69	-26.31	74	40.77	31.5	8.89	33.47	314	341	P	H
		5127.5	39.35	-14.65	54	32.31	31.56	8.95	33.47	314	341	A	H
	*	5240	105.55	-	-	98.36	31.68	8.98	33.47	314	341	P	H
	*	5240	98.8	-	-	91.61	31.68	8.98	33.47	314	341	A	H
		5429.2	46.68	-27.32	74	39.07	31.92	9.17	33.48	314	341	P	H
		5427.66	37.8	-16.2	54	30.21	31.9	9.17	33.48	314	341	A	H
		5053.55	48.51	-25.49	74	41.63	31.46	8.89	33.47	262	3	P	V
		5148.8	39.7	-14.3	54	32.64	31.58	8.95	33.47	262	3	A	V
	*	5240	110.42	-	-	103.23	31.68	8.98	33.47	262	3	P	V
	*	5240	103.24	-	-	96.05	31.68	8.98	33.47	262	3	A	V
		5399.28	47.51	-26.49	74	39.98	31.88	9.13	33.48	262	3	P	V
		5357.04	38.82	-15.18	54	31.4	31.82	9.08	33.48	262	3	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 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	42.08	-31.92	74	56.7	39.79	13.09	67.5	100	0	P	H	
		15540	50.39	-23.61	74	60.63	38.6	16.55	65.39	100	0	P	H	
													H	
													H	
			10360	42.53	-31.47	74	57.15	39.79	13.09	67.5	100	0	P	V
			15540	49.24	-24.76	74	59.48	38.6	16.55	65.39	100	0	P	V
														V
802.11ac VHT20 CH 44 5220MHz		10440	41.12	-32.88	74	55.62	39.89	13.11	67.5	100	0	P	H	
		15660	50.63	-23.37	74	61.21	38.23	16.56	65.37	100	0	P	H	
													H	
													H	
			10440	40.86	-33.14	74	55.36	39.89	13.11	67.5	100	0	P	V
			15660	50.2	-23.8	74	60.78	38.23	16.56	65.37	100	0	P	V
														V
802.11ac VHT20 CH 48 5240MHz		10480	41.44	-32.56	74	55.86	39.97	13.11	67.5	100	0	P	H	
		15720	50.9	-23.1	74	61.66	38.03	16.57	65.36	371	214	P	H	
		15720	40.63	-13.37	54	51.39	38.03	16.57	65.36	371	214	A	H	
													H	
			10480	41.11	-32.89	74	55.53	39.97	13.11	67.5	100	0	P	V
			15720	52.57	-21.43	74	63.33	38.03	16.57	65.36	100	213	P	V
			15720	43.55	-10.45	54	54.31	38.03	16.57	65.36	100	213	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 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		5149.4	54.75	-19.25	74	47.69	31.58	8.95	33.47	234	354	P	H
		5150	48.79	-5.21	54	41.73	31.58	8.95	33.47	234	354	A	H
	*	5190	101.08	-	-	93.94	31.64	8.97	33.47	234	354	P	H
	*	5190	93.48	-	-	86.34	31.64	8.97	33.47	234	354	A	H
		5372	46.27	-27.73	74	38.78	31.84	9.13	33.48	234	354	P	H
		5442.18	38.69	-15.31	54	31.03	31.92	9.22	33.48	234	354	A	H
		5150	58.65	-15.35	74	51.59	31.58	8.95	33.47	100	332	P	V
		5150	52.47	-1.53	54	45.41	31.58	8.95	33.47	100	332	A	V
	*	5190	105.32	-	-	98.2	31.62	8.97	33.47	100	332	P	V
	*	5190	98.34	-	-	91.22	31.62	8.97	33.47	100	332	A	V
		5371.56	46.59	-27.41	74	39.1	31.84	9.13	33.48	100	332	P	V
		5397.41	39	-15	54	31.47	31.88	9.13	33.48	100	332	A	V
802.11ac VHT40 CH 46 5230MHz		5089.7	47.66	-26.34	74	40.69	31.52	8.92	33.47	233	356	P	H
		5133.8	40.24	-13.76	54	33.2	31.56	8.95	33.47	233	356	A	H
	*	5230	104.79	-	-	97.6	31.68	8.98	33.47	233	356	P	H
	*	5230	96.34	-	-	89.15	31.68	8.98	33.47	233	356	A	H
		5439.1	47.61	-26.39	74	40	31.92	9.17	33.48	233	356	P	H
		5399.61	38.6	-15.4	54	31.07	31.88	9.13	33.48	233	356	A	H
		5093.15	49.52	-24.48	74	42.55	31.52	8.92	33.47	100	331	P	V
		5145.05	41.91	-12.09	54	34.85	31.58	8.95	33.47	100	331	A	V
	*	5230	108.35	-	-	101.16	31.68	8.98	33.47	100	331	P	V
	*	5230	100.63	-	-	93.44	31.68	8.98	33.47	100	331	A	V
	5378.71	47.23	-26.77	74	39.72	31.86	9.13	33.48	100	331	P	V	
	5357.26	39.97	-14.03	54	32.55	31.82	9.08	33.48	100	331	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 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	42.37	-31.63	74	56.97	39.81	13.09	67.5	100	0	P	H	
		15570	42.62	-31.38	74	52.97	38.49	16.55	65.39	100	0	P	H	
													H	
													H	
			4726	52.17	-21.83	74	46.13	30.96	8.58	33.5	100	332	P	V
			4726	44.94	-9.06	54	38.9	30.96	8.58	33.5	100	332	A	V
			10380	40.84	-33.16	74	55.44	39.81	13.09	67.5	100	0	P	V
802.11ac VHT40 CH 46 5230MHz		15570	41.66	-32.34	74	52.01	38.49	16.55	65.39	100	0	P	V	
		4768	51.84	-22.16	74	45.7	31.04	8.6	33.5	233	356	P	H	
		4768	45.07	-8.93	54	38.93	31.04	8.6	33.5	233	356	A	H	
		10460	40.75	-33.25	74	55.22	39.92	13.11	67.5	100	0	P	H	
		15690	46.67	-27.33	74	57.34	38.13	16.56	65.36	100	0	P	H	
		4768	56.61	-17.39	74	50.47	31.04	8.6	33.5	100	331	P	V	
		4768	47.85	-6.15	54	41.71	31.04	8.6	33.5	100	331	A	V	
		10460	40.38	-33.62	74	54.85	39.92	13.11	67.5	100	0	P	V	
	15690	48.16	-25.84	74	58.83	38.13	16.56	65.36	100	0	P	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 (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		5144.15	57.47	-16.53	74	50.41	31.58	8.95	33.47	303	340	P	H
		5144.9	51.41	-2.59	54	44.35	31.58	8.95	33.47	303	340	A	H
	*	5210	97.87	-	-	90.7	31.66	8.98	33.47	303	340	P	H
	*	5210	90.61	-	-	83.44	31.66	8.98	33.47	303	340	A	H
		5446.58	46.51	-27.49	74	38.83	31.94	9.22	33.48	303	340	P	H
		5427.99	39.81	-14.19	54	32.22	31.9	9.17	33.48	303	340	A	H
		5146.1	59.01	-14.99	74	51.95	31.58	8.95	33.47	170	361	P	V
		5149.55	52.98	-1.02	54	45.92	31.58	8.95	33.47	170	361	A	V
	*	5210	101.79	-	-	94.62	31.66	8.98	33.47	170	361	P	V
	*	5210	94.45	-	-	87.28	31.66	8.98	33.47	170	361	A	V
		5449.88	46.75	-27.25	74	39.07	31.94	9.22	33.48	170	361	P	V
		5449.55	40.4	-13.6	54	32.72	31.94	9.22	33.48	170	361	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)

Table with 14 columns: 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). Rows include data for 802.11ac VHT80 CH 42 5210MHz and a Remark section.



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		5005.1	47.79	-26.21	74	40.98	31.42	8.86	33.47	181	360	P	H
		5106.35	39.91	-14.09	54	32.92	31.54	8.92	33.47	181	360	A	H
	*	5260	102.23	-	-	95	31.72	8.99	33.48	181	360	P	H
	*	5260	95.93	-	-	88.7	31.72	8.99	33.48	181	360	A	H
		5355.17	46.58	-27.42	74	39.16	31.82	9.08	33.48	181	360	P	H
		5407.64	38.67	-15.33	54	31.1	31.88	9.17	33.48	181	360	A	H
		5087.15	49.08	-24.92	74	42.13	31.5	8.92	33.47	138	339	P	V
		5145.35	40.67	-13.33	54	33.61	31.58	8.95	33.47	138	339	A	V
	*	5260	108.26	-	-	101.03	31.72	8.99	33.48	138	339	P	V
	*	5260	102.29	-	-	95.06	31.72	8.99	33.48	138	339	A	V
		5415.12	47.11	-26.89	74	39.52	31.9	9.17	33.48	138	339	P	V
		5355.94	39.8	-14.2	54	32.38	31.82	9.08	33.48	138	339	A	V
802.11n HT20 CH 60 5300MHz		5122.85	48.33	-25.67	74	41.29	31.56	8.95	33.47	300	145	P	H
		5105.9	39.31	-14.69	54	32.32	31.54	8.92	33.47	300	145	A	H
	*	5300	106.57	-	-	99.25	31.76	9.04	33.48	300	145	P	H
	*	5300	98.42	-	-	91.1	31.76	9.04	33.48	300	145	A	H
		5385.53	46.55	-27.45	74	39.04	31.86	9.13	33.48	300	145	P	H
		5374.31	39.25	-14.75	54	31.76	31.84	9.13	33.48	300	145	A	H
		5020.7	47.24	-26.76	74	40.41	31.44	8.86	33.47	100	59	P	V
		5143.55	39.92	-14.08	54	32.86	31.58	8.95	33.47	100	59	A	V
	*	5300	108.94	-	-	101.62	31.76	9.04	33.48	100	59	P	V
	*	5300	102.57	-	-	95.25	31.76	9.04	33.48	100	59	A	V
	5355.94	50.14	-23.86	74	42.72	31.82	9.08	33.48	100	59	P	V	
	5358.69	41.42	-12.58	54	34	31.82	9.08	33.48	100	59	A	V	



802.11n HT20 CH 64 5320MHz	*	5320	104.56	-	-	97.22	31.78	9.04	33.48	312	139	P	H
	*	5320	97.39	-	-	90.05	31.78	9.04	33.48	312	139	A	H
		5351.32	47.44	-26.56	74	40.02	31.82	9.08	33.48	312	139	P	H
		5350.44	41.31	-12.69	54	33.89	31.82	9.08	33.48	312	139	A	H
													H
													H
	*	5319	107.85	-	-	100.51	31.78	9.04	33.48	100	327	P	V
	*	5319	101.24	-	-	93.9	31.78	9.04	33.48	100	327	A	V
		5351.54	49.64	-24.36	74	42.22	31.82	9.08	33.48	100	327	P	V
		5350	43.84	-10.16	54	36.42	31.82	9.08	33.48	100	327	A	V
													V
													V
Remark	3. No other spurious found. 4. 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	41.66	-32.34	74	55.99	40.01	13.14	67.48	100	0	P	H	
		15780	47.25	-26.75	74	58.15	37.87	16.57	65.34	100	0	P	H	
													H	
													H	
			10520	40.81	-33.19	74	55.14	40.01	13.14	67.48	100	0	P	V
			15780	47.3	-26.7	74	58.2	37.87	16.57	65.34	100	0	P	V
														V
802.11n HT20 CH 60 5300MHz		10600	40.97	-33.03	74	55.11	40.06	13.2	67.4	100	0	P	H	
		15900	46.27	-27.73	74	57.5	37.51	16.58	65.32	100	0	P	H	
													H	
													H	
			10600	41.26	-32.74	74	55.4	40.06	13.2	67.4	100	0	P	V
			15900	48.84	-25.16	74	60.07	37.51	16.58	65.32	100	0	P	V
														V
802.11n HT20 CH 64 5320MHz		10640	40.41	-33.59	74	54.46	40.08	13.23	67.36	100	0	P	H	
		15960	47.57	-26.43	74	58.99	37.3	16.59	65.31	100	0	P	H	
													H	
													H	
			10640	41.52	-32.48	74	55.57	40.08	13.23	67.36	100	0	P	V
			15960	47.29	-26.71	74	58.71	37.3	16.59	65.31	100	0	P	V
														V
Remark	3. No other spurious found.													
	4. 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		5119.7	47.72	-26.28	74	40.73	31.54	8.92	33.47	322	139	P	H
		5127.5	39.45	-14.55	54	32.41	31.56	8.95	33.47	322	139	A	H
	*	5270	103.48	-	-	96.25	31.72	8.99	33.48	322	139	P	H
	*	5270	96.22	-	-	88.99	31.72	8.99	33.48	322	139	A	H
		5390.48	47.15	-26.85	74	39.64	31.86	9.13	33.48	322	139	P	H
		5357.37	39.61	-14.39	54	32.19	31.82	9.08	33.48	322	139	A	H
		5131.55	48.76	-25.24	74	41.72	31.56	8.95	33.47	100	61	P	V
		5148.2	40.89	-13.11	54	33.83	31.58	8.95	33.47	100	61	A	V
	*	5270	107.37	-	-	100.14	31.72	8.99	33.48	100	61	P	V
	*	5270	100.26	-	-	93.03	31.72	8.99	33.48	100	61	A	V
		5356.16	49.72	-24.28	74	42.3	31.82	9.08	33.48	100	61	P	V
		5355.17	42.44	-11.56	54	35.02	31.82	9.08	33.48	100	61	A	V
802.11n HT40 CH 62 5310MHz		5077.85	48.3	-25.7	74	41.38	31.5	8.89	33.47	326	135	P	H
		5108.3	39.38	-14.62	54	32.39	31.54	8.92	33.47	326	135	A	H
	*	5310	101.46	-	-	94.12	31.78	9.04	33.48	326	135	P	H
	*	5310	94.09	-	-	86.75	31.78	9.04	33.48	326	135	A	H
		5353.74	56.06	-17.94	74	48.64	31.82	9.08	33.48	326	135	P	H
		5350.66	47.79	-6.21	54	40.37	31.82	9.08	33.48	326	135	A	H
		5138.6	48.4	-25.6	74	41.36	31.56	8.95	33.47	100	61	P	V
		5110.85	40.48	-13.52	54	33.49	31.54	8.92	33.47	100	61	A	V
	*	5310	106.32	-	-	98.98	31.78	9.04	33.48	100	61	P	V
	*	5310	99.46	-	-	92.12	31.78	9.04	33.48	100	61	A	V
	5350.22	59.84	-14.16	74	52.42	31.82	9.08	33.48	100	61	P	V	
	5350	52.93	-1.07	54	45.51	31.82	9.08	33.48	100	61	A	V	
Remark	3. No other spurious found. 4. 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		4774	51.12	-22.88	74	44.98	31.04	8.6	33.5	322	139	P	H
		4774	44.27	-9.73	54	38.13	31.04	8.6	33.5	322	139	A	H
		10540	41.69	-32.31	74	56	40.02	13.14	67.47	100	0	P	H
		15810	46.92	-27.08	74	57.92	37.77	16.57	65.34	100	0	P	H
		4804	55.4	-18.6	74	49.14	31.1	8.65	33.49	100	61	P	V
		4804	47.59	-6.41	54	41.33	31.1	8.65	33.49	100	61	A	V
		10540	41.05	-32.95	74	55.36	40.02	13.14	67.47	100	0	P	V
802.11n HT40 CH 62 5310MHz		15810	46.41	-27.59	74	57.41	37.77	16.57	65.34	100	0	P	V
		10620	40.61	-33.39	74	54.72	40.07	13.2	67.38	100	0	P	H
		15930	43.85	-30.15	74	55.17	37.41	16.58	65.31	100	0	P	H
													H
													H
		4846	52.27	-21.73	74	45.92	31.15	8.69	33.49	100	61	P	V
		4846	46.14	-7.86	54	39.79	31.15	8.69	33.49	100	61	A	V
	10620	41.56	-32.44	74	55.67	40.07	13.2	67.38	100	0	P	V	
	15930	44.59	-29.41	74	55.91	37.41	16.58	65.31	100	0	P	V	
Remark	3. No other spurious found. 4. 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		5069.6	47.12	-26.88	74	40.22	31.48	8.89	33.47	317	143	P	H
		5116.85	38.8	-15.2	54	31.81	31.54	8.92	33.47	317	143	A	H
	*	5260	106.68	-	-	99.45	31.72	8.99	33.48	317	143	P	H
	*	5260	98.66	-	-	91.43	31.72	8.99	33.48	317	143	A	H
		5370.9	47.36	-26.64	74	39.87	31.84	9.13	33.48	317	143	P	H
		5353.08	38.49	-15.51	54	31.07	31.82	9.08	33.48	317	143	A	H
		5100.8	48.78	-25.22	74	41.81	31.52	8.92	33.47	100	337	P	V
		5147.75	40.37	-13.63	54	33.31	31.58	8.95	33.47	100	337	A	V
	*	5260	109.93	-	-	102.7	31.72	8.99	33.48	100	337	P	V
	*	5260	102.95	-	-	95.72	31.72	8.99	33.48	100	337	A	V
		5352.2	48.35	-25.65	74	40.93	31.82	9.08	33.48	100	337	P	V
		5372.11	39.43	-14.57	54	31.94	31.84	9.13	33.48	100	337	A	V
802.11ac VHT20 CH 60 5300MHz		5088.5	47.37	-26.63	74	40.42	31.5	8.92	33.47	301	144	P	H
		5112.5	39.5	-14.5	54	32.51	31.54	8.92	33.47	301	144	A	H
	*	5300	106.2	-	-	98.88	31.76	9.04	33.48	301	144	P	H
	*	5300	99.61	-	-	92.29	31.76	9.04	33.48	301	144	A	H
		5388.94	46.91	-27.09	74	39.4	31.86	9.13	33.48	301	144	P	H
		5377.72	39.33	-14.67	54	31.82	31.86	9.13	33.48	301	144	A	H
		5130.65	48.43	-25.57	74	41.39	31.56	8.95	33.47	100	59	P	V
		5095.1	39.67	-14.33	54	32.7	31.52	8.92	33.47	100	59	A	V
	*	5300	108.87	-	-	101.55	31.76	9.04	33.48	100	59	P	V
	*	5300	102.59	-	-	95.27	31.76	9.04	33.48	100	59	A	V
	5374.97	48.76	-25.24	74	41.27	31.84	9.13	33.48	100	59	P	V	
	5351.87	41.73	-12.27	54	34.31	31.82	9.08	33.48	100	59	A	V	



802.11ac VHT20 CH 64 5320MHz	*	5320	106.54	-	-	99.2	31.78	9.04	33.48	312	139	P	H
	*	5320	99.23	-	-	91.89	31.78	9.04	33.48	312	139	A	H
		5350.22	49.39	-24.61	74	41.97	31.82	9.08	33.48	312	139	P	H
		5350.11	42.21	-11.79	54	34.79	31.82	9.08	33.48	312	139	A	H
													H
													H
	*	5320	110.48	-	-	103.14	31.78	9.04	33.48	100	328	P	V
	*	5320	103.24	-	-	95.9	31.78	9.04	33.48	100	328	A	V
		5352.09	56.33	-17.67	74	48.91	31.82	9.08	33.48	100	327	P	V
		5350	44.89	-9.11	54	37.47	31.82	9.08	33.48	100	327	A	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												