



FCC RF Test Report

APPLICANT : Acer Incorporated
EQUIPMENT : Intel Module
BRAND NAME : acer
MODEL NAME : 7265D2W
MARKETING NAME : 7265D2W
FCC ID : HLZ7265D2
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was integrated the Notebook Computer (Brand Name: acer, Model Name: N17H2, Marketing Name: SP111-32N) during the test.

The product was received on May 05, 2017 and testing was completed on Jun. 06, 2017. We, SPORTON International (ShenZhen) 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 (ShenZhen) INC., the test report shall not be reproduced except in full.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR750510D	Rev. 01	Initial issue of report	Jun. 20, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	1
3.1	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band) IC RSS-247 Section 6 Limit	Pass	-
-	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band) IC RSS-247 Section 6 Limit	Pass	1
3.2	15.407(b)	Unwanted Emissions	15.407(b) 15.209(a)	Pass	Under limit 1.27 dB at 5468.080 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 2.32 dB at 0.150 MHz
-	15.407(g)	Frequency Stability	Within Operation Band	Pass	1
3.4	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.5	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

Note: 1: All conducted test items were leverage from module RF report which can refer to Report No.

"FCC_7265D2W_UNII_Report".



1 General Description

1.1 Applicant

Acer Incorporated

8F, 88, Sec.1 Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan, R.O.C

1.2 Manufacturer

Acer Incorporated

8F, 88, Sec.1 Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan, R.O.C

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Intel Module
Brand Name	acer
Model Name	7265D2W
Marketing Name	7265D2W
FCC ID	HLZ7265D2
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40 WLAN5GHz 802.11a/n HT20/HT40 WLAN5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0+EDR/ Bluetooth v4.0 LE
HW Version	N/A
SW Version	N/A
EUT Stage	Pre-Production

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 Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> <Ant. 1> 802.11a : 14.78 dBm / 0.0301 W 802.11n HT20 : 14.71 dBm / 0.0296 W 802.11n HT40 : 14.64 dBm / 0.0291 W 802.11ac VHT20: 14.70 dBm / 0.0295 W 802.11ac VHT40: 14.63 dBm / 0.0290 W 802.11ac VHT80: 13.48 dBm / 0.0223 W <Ant. 2> 802.11a : 15.49 dBm / 0.0354 W 802.11n HT20 : 15.42 dBm / 0.0348 W 802.11n HT40 : 15.24 dBm / 0.0334 W 802.11ac VHT20: 15.37 dBm / 0.0344 W 802.11ac VHT40: 15.21 dBm / 0.0332 W 802.11ac VHT80: 13.31 dBm / 0.0214 W MIMO <Ant. 1+2> 802.11n HT20 : 15.27 dBm / 0.0337 W 802.11n HT40 : 17.65 dBm / 0.0582 W 802.11ac VHT20: 15.04 dBm / 0.0319 W 802.11ac VHT40: 17.61 dBm / 0.0577 W 802.11ac VHT80: 13.72 dBm / 0.0236 W <5260 MHz ~ 5320 MHz> <Ant. 1> 802.11a : 14.91 dBm / 0.0310 W 802.11n HT20 : 14.87 dBm / 0.0307 W 802.11n HT40 : 14.45 dBm / 0.0279 W 802.11ac VHT20: 14.79 dBm / 0.0301 W 802.11ac VHT40: 14.44 dBm / 0.0278 W 802.11ac VHT80: 13.44 dBm / 0.0221 W <Ant. 2> 802.11a : 15.58 dBm / 0.0361 W 802.11n HT20 : 15.31 dBm / 0.0340 W 802.11n HT40 : 15.16 dBm / 0.0328 W 802.11ac VHT20: 15.28 dBm / 0.0337 W 802.11ac VHT40: 15.13 dBm / 0.0326 W 802.11ac VHT80: 13.15 dBm / 0.0207 W MIMO <Ant. 1+2> 802.11n HT20 : 17.82 dBm / 0.0605 W 802.11n HT40 : 17.07 dBm / 0.0509 W 802.11ac VHT20: 17.76 dBm / 0.0597 W 802.11ac VHT40: 17.02 dBm / 0.0504 W 802.11ac VHT80: 12.34 dBm / 0.0171 W <5500 MHz ~ 5720 MHz > <Ant. 1> 802.11a : 14.72 dBm / 0.0296 W 802.11n HT20 : 14.37 dBm / 0.0274 W 802.11n HT40 : 14.50 dBm / 0.0282 W 802.11ac VHT20: 14.36 dBm / 0.0273 W



	802.11ac VHT40: 14.41 dBm / 0.0276 W 802.11ac VHT80: 14.71 dBm / 0.0296 W <Ant. 2> 802.11a : 14.83 dBm / 0.0304 W 802.11n HT20 : 14.49 dBm / 0.0281 W 802.11n HT40 : 14.74 dBm / 0.0298 W 802.11ac VHT20: 14.76 dBm / 0.0299 W 802.11ac VHT40: 14.75 dBm / 0.0299 W 802.11ac VHT80: 14.52 dBm / 0.0283 W MIMO <Ant. 1+2> 802.11n HT20 : 17.39 dBm / 0.0548 W 802.11n HT40 : 16.92 dBm / 0.0492 W 802.11ac VHT20: 17.37 dBm / 0.0546 W 802.11ac VHT40: 16.90 dBm / 0.0490 W 802.11ac VHT80: 17.05 dBm / 0.0507 W		
Maximum Output Power to Antenna for Straddle Channel	<Ant. 1> 802.11a : 12.34 dBm / 0.0071 W 802.11n HT20 : 12.95 dBm / 0.0197 W 802.11n HT40 : 14.36 dBm / 0.0273 W 802.11ac VHT20: 12.93 dBm / 0.0196 W 802.11ac VHT40: 14.35 dBm / 0.0272 W 802.11ac VHT80: 14.54 dBm / 0.0284 W <Ant. 2> 802.11a : 12.96 dBm / 0.0198 W 802.11n HT20 : 12.57 dBm / 0.0181 W 802.11n HT40 : 14.65 dBm / 0.0292 W 802.11ac VHT20: 12.48 dBm / 0.0177 W 802.11ac VHT40: 14.34 dBm / 0.0272 W 802.11ac VHT80: 14.24 dBm / 0.0265 W MIMO <Ant. 1+2> 802.11n HT20 : 14.21 dBm / 0.0264 W 802.11n HT40 : 16.82 dBm / 0.0481 W 802.11ac VHT20: 14.13 dBm / 0.0259 W 802.11ac VHT40: 16.81 dBm / 0.0480 W 802.11ac VHT80: 17.28 dBm / 0.0535 W		
Antenna Type	Ant. 1 : PIFA Antenna Ant. 2 : PIFA Antenna		
Antenna Gain	<5180 MHz ~ 5240 MHz> Ant. 1 : 1.2 dBi Ant. 2 : 2.2 dBi <5260 MHz ~ 5320 MHz> Ant. 1 : 2.6 dBi Ant. 2 : 1.4 dBi <5500 MHz ~ 5720 MHz > Ant. 1 : 1.6 dBi Ant. 2 : 1.8 dBi		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function Description		Ant. 1	Ant. 2
	802.11 a/n/ac SISO	V	V
	802.11 n/ac MIMO	V	V



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

Host Feature & Specification	
Equipment Name	Notebook Computer
Brand Name	acer
Model Name	N17H2
Marketing Name	SP111-32N
HW	N8101_MB_V3
SW	15063

1.5 Component list

Remark: There are two types of the host, the details refer the following table. According to the difference, we choose sample 1 to perform full test.

Name	Notebook Computer	
	First Source	Second Source
PCB--MB	N8101_mainboard PCB_V3.0 (EAGLE)	N8101_mainboard PCB_V3.0 (WUZHU)
CPU	N4200 (INTEL)	N3350 (INTEL)
EMMC	128G (SANDISK)	64G (Hynix)
Adapter	Adapter is split type (Delta). The US, EU adapter are the same except pin feet.	Adapter is integrated type (Chicony). The US, EU adapter are the same except pin feet.
Camera	6SF009N2 (LITE-ON)	CNFG023 (Chicony)

1.6 Modification of EUT

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

1.7 Testing Location

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	
	TH01-SZ	CO01-SZ

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH03-SZ	565805

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

1.8 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 v01r04
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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 were recorded in this report.

2.1 Carrier Frequency and Channel

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142 [*]	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

Single Antenna

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

MIMO Antenna

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

Test Cases	
AC Conducted	Mode 1 : WLAN Link (5G) + Bluetooth Link + Adapter 1 + Earphone
Emission	Mode 2 : WLAN Link (5G) + Bluetooth Link + Adapter 2 + Earphone
Remark: 1. The worst case of conducted emission is mode 1; only the test data of it was reported.	



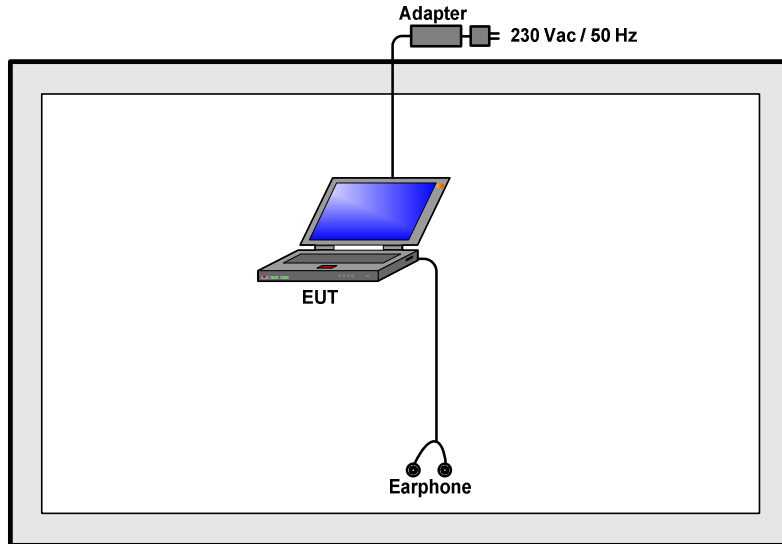
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

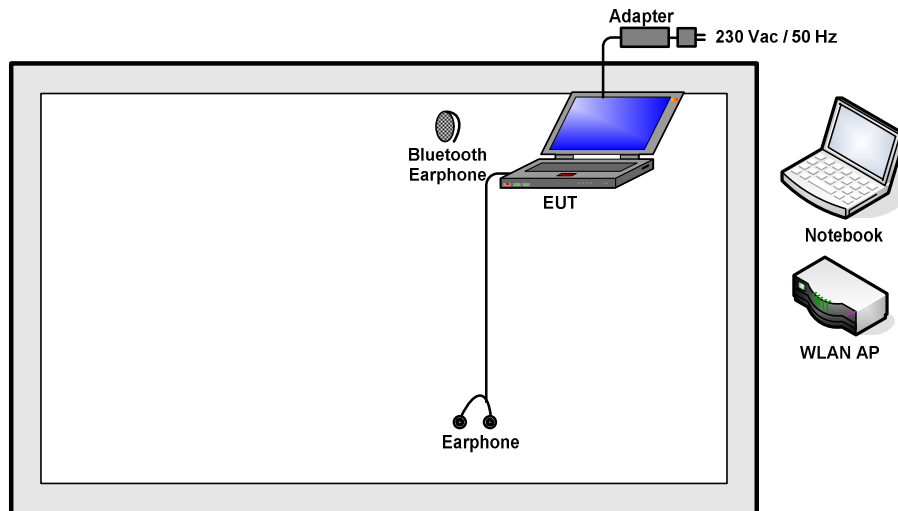
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 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-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
2.	Notebook	Lenovo	E540	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
4.	iPod Earphone	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.6m	N/A

2.5 EUT Operation Test Setup

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

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

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm $10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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

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

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

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

3.1.2 Measuring Instruments

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



3.1.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 for CDD modes.

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

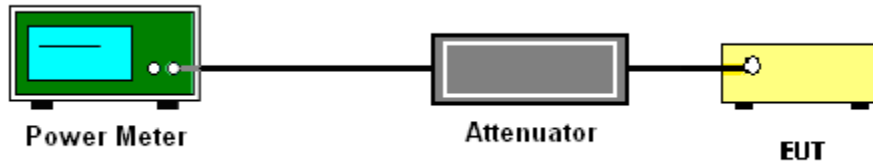
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x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

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

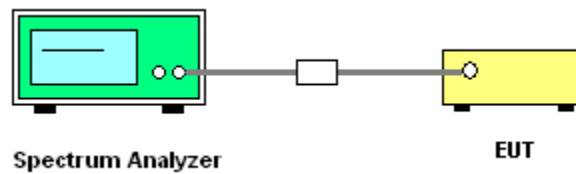
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.1.4 Test Setup

For normal channel:



For straddle channel:



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 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 shall comply with the general field strength limits as below table

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

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

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



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

(3) KDB789033 D01 v01r04 G)2)c)

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.⁴

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

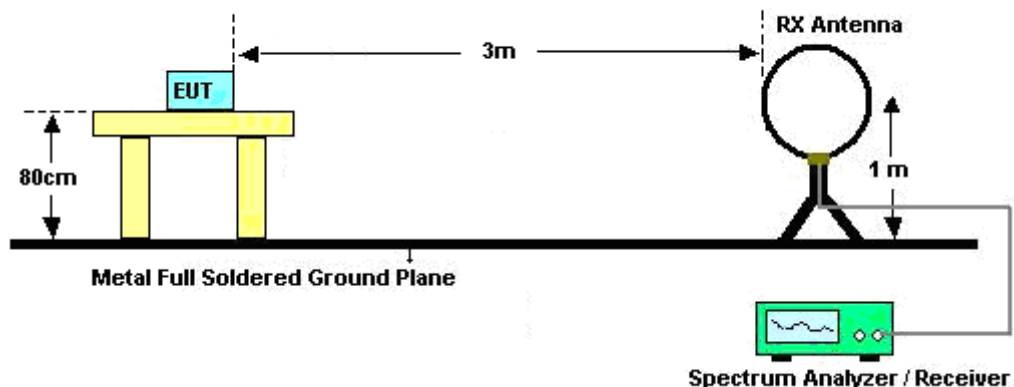
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

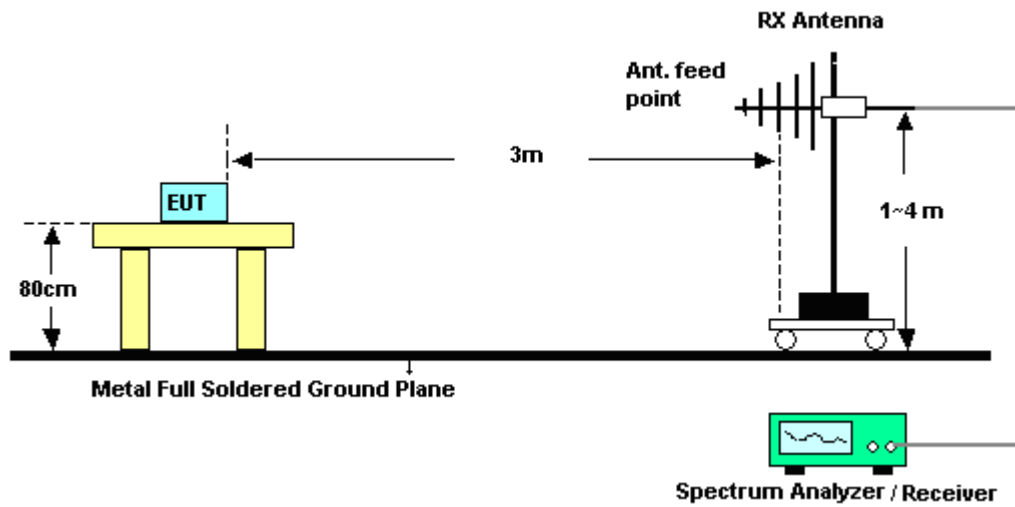
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.2.4 Test Setup

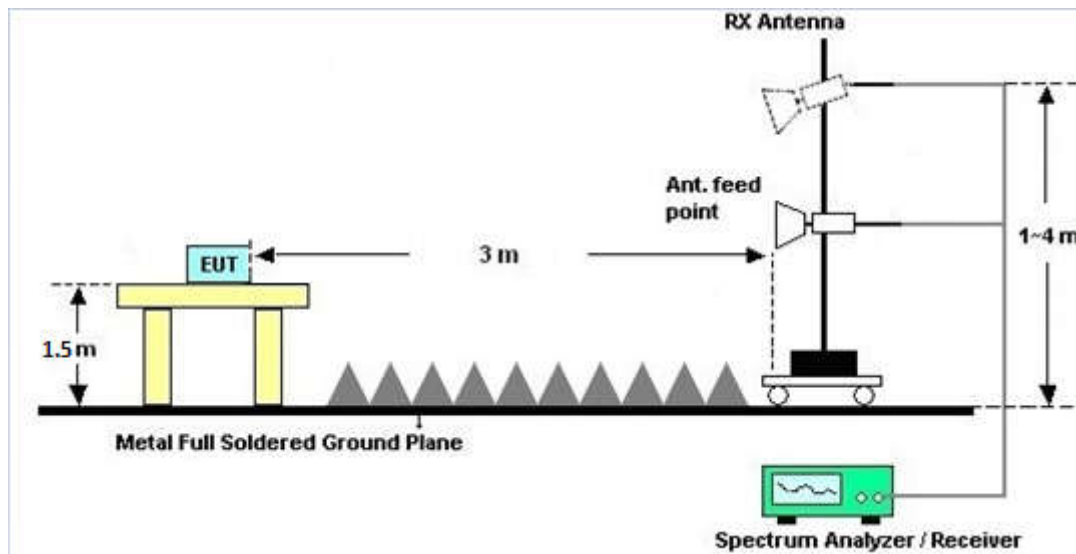
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

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

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

3.2.9 Test Result of Radiated Spurious Emission (Simultaneous TX)

Please refer to test report (FR750510B).

3.3 AC Conducted Emission Measurement

3.3.1 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.

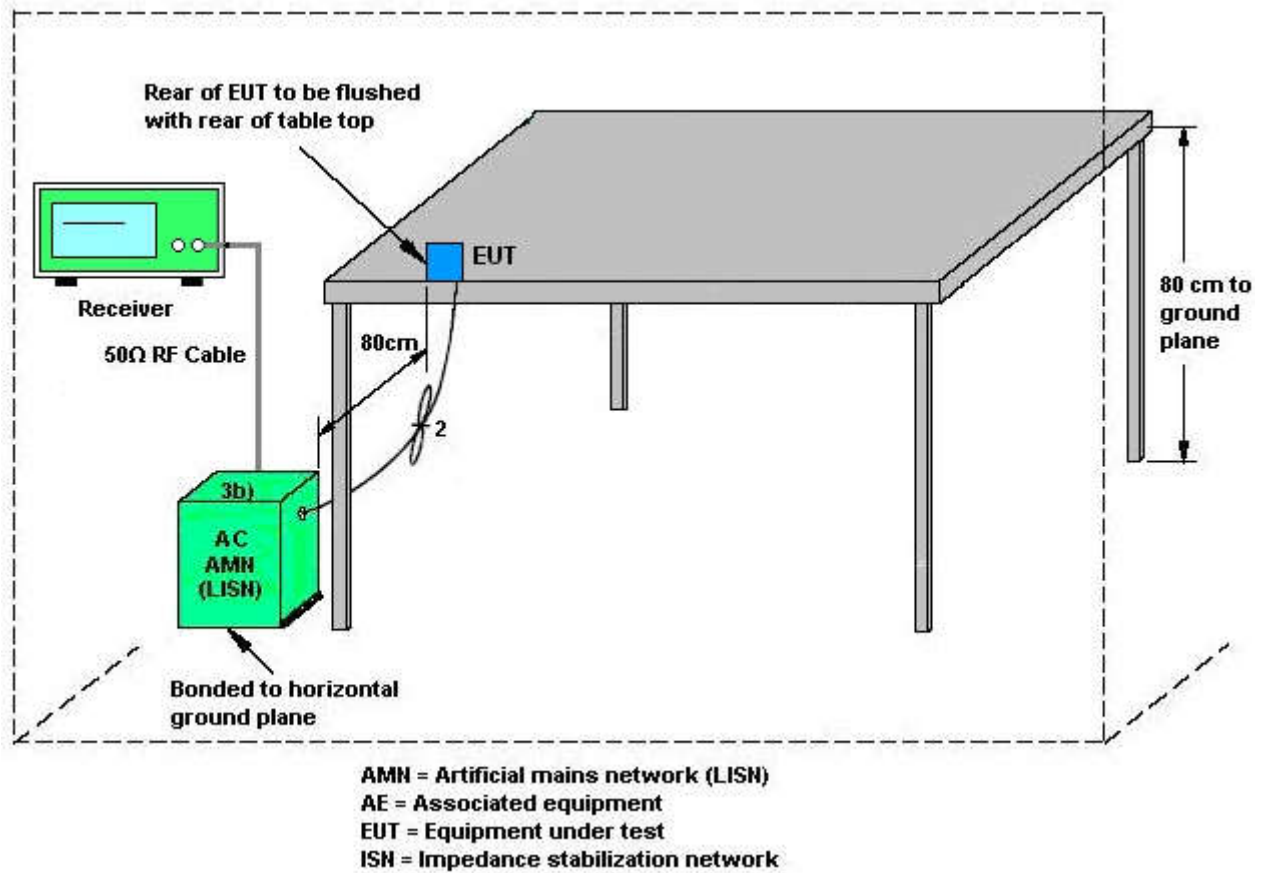
3.3.2 Measuring Instruments

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

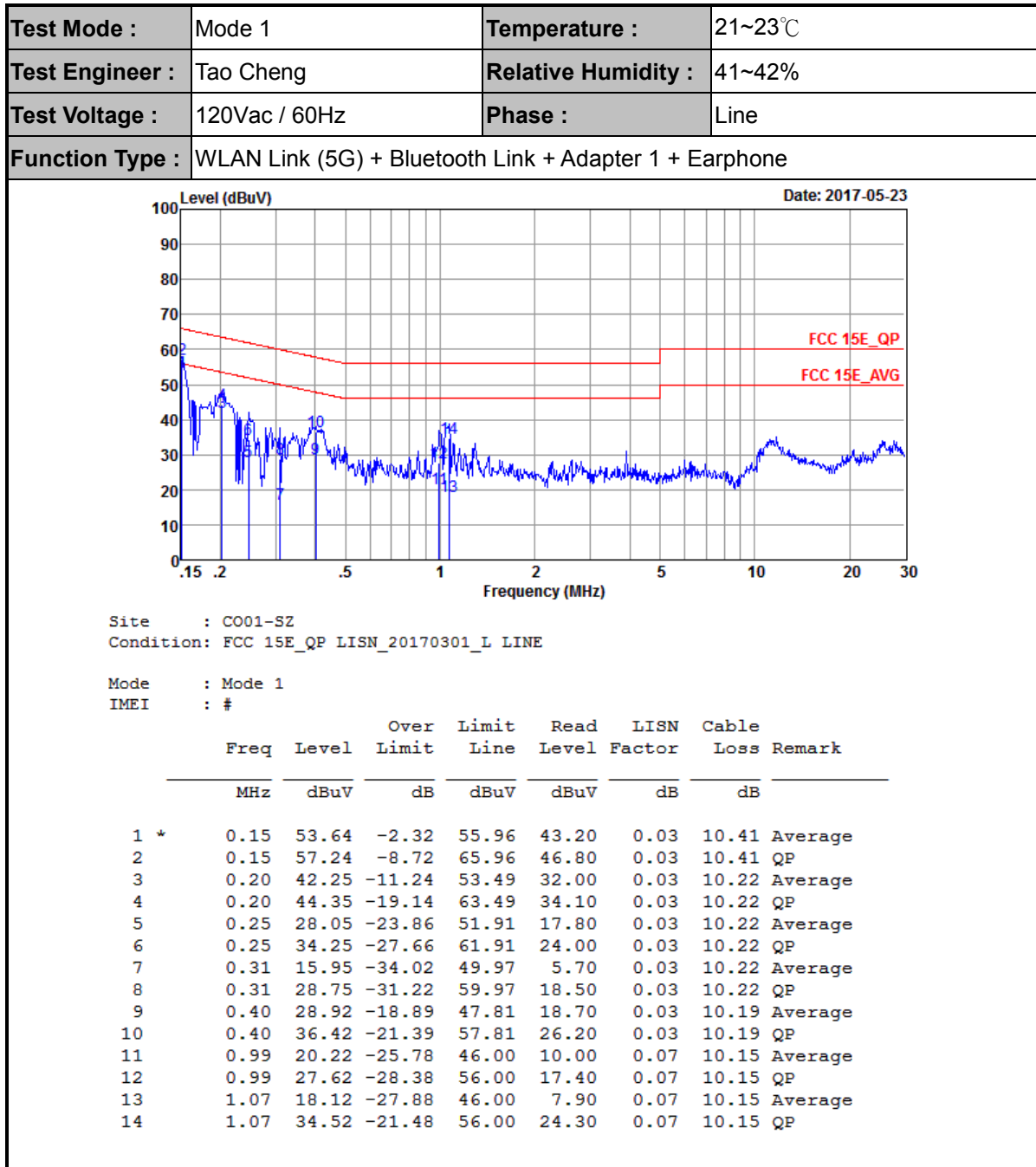
3.3.3 Test Procedures

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.

3.3.4 Test Setup

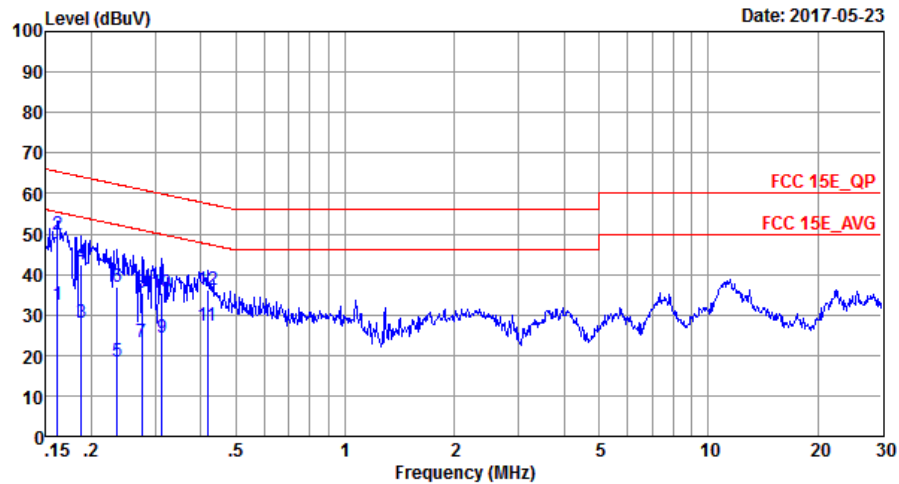


3.3.5 Test Result of AC Conducted Emission





Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Link (5G) + Bluetooth Link + Adapter 1 + Earphone		



Site : CO01-SZ
Condition: FCC 15E_QP LISN_20170301_N NEUTRAL

Mode : Mode 1
IMEI : #

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	32.49	-22.89	55.38	22.10	0.03	10.36	Average
2 *	0.16	49.99	-15.39	65.38	39.60	0.03	10.36	QP
3	0.19	27.99	-26.16	54.15	17.70	0.03	10.26	Average
4	0.19	42.39	-21.76	64.15	32.10	0.03	10.26	QP
5	0.24	18.45	-33.81	52.26	8.20	0.03	10.22	Average
6	0.24	36.75	-25.51	62.26	26.50	0.03	10.22	QP
7	0.28	23.25	-27.69	50.94	13.00	0.03	10.22	Average
8	0.28	35.35	-25.59	60.94	25.10	0.03	10.22	QP
9	0.31	24.44	-25.44	49.88	14.19	0.03	10.22	Average
10	0.31	35.34	-24.54	59.88	25.09	0.03	10.22	QP
11	0.42	27.31	-20.20	47.51	17.10	0.02	10.19	Average
12	0.42	36.21	-21.30	57.51	26.00	0.02	10.19	QP

3.4 Automatically Discontinue Transmission

3.4.1 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.

3.4.2 Measuring Instruments

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

3.4.3 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.

3.5 Antenna Requirements

3.5.1 Standard Applicable

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

3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.5.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 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	1.20	2.20	2.20	4.72	0.00	0.00
Band II	2.60	1.40	2.60	5.03	0.00	0.00
Band III	1.60	1.80	1.80	4.71	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 20, 2017	Jun. 02, 2017	Apr.19, 2018	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 06, 2017	Jun. 02, 2017	Jan. 05, 2018	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 06, 2017	Jun. 02, 2017	Jan. 05, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 20, 2017	Jun. 03, 2017~ Jun. 06, 2017	Apr. 19, 2018	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	Apr.20, 2017	Jun. 03, 2017~ Jun. 06, 2017	Apr.19, 2018	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2017	Jun. 03, 2017~ Jun. 06, 2017	May 13, 2018	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 14, 2017	Jun. 03, 2017~ Jun. 06, 2017	May 13, 2018	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	May 07, 2017	Jun. 03, 2017~ Jun. 06, 2017	May 06, 2018	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 10, 2016	Jun. 03, 2017~ Jun. 06, 2017	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz~3000MHz	Oct. 11, 2016	Jun. 03, 2017~ Jun. 06, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 11, 2016	Jun. 03, 2017~ Jun. 06, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 06, 2017	Jun. 03, 2017~ Jun. 06, 2017	Jan. 05, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 16, 2016	Jun. 03, 2017~ Jun. 06, 2017	Jul. 15, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jun. 03, 2017~ Jun. 06, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 03, 2017~ Jun. 06, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 03, 2017~ Jun. 06, 2017	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jan. 06, 2017	May 23, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 05, 2017	May 23, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 05, 2017	May 23, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 16, 2016	May 23, 2017	Jul. 15, 2017	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 11, 2016	May 23, 2017	Oct. 10, 2017	Conduction (CO01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0 dB
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Appendix A. Conducted Test Results

Test Engineer:	Sam Zheng	Temperature:	21~25	°C
Test Date:	2017/6/2	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

FCC Band I														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.05	0.05	13.98	13.97		24.00	24.00	1.20	2.20	Pass
11a	6Mbps	1	44	5220	0.05	0.05	14.84	15.49		24.00	24.00	1.20	2.20	Pass
11a	6Mbps	1	48	5240	0.05	0.05	14.78	15.20		24.00	24.00	1.20	2.20	Pass
HT20	MCS0	1	36	5180	0.04	0.08	13.92	13.95		24.00	24.00	1.20	2.20	Pass
HT20	MCS0	1	44	5220	0.04	0.08	14.71	15.42		24.00	24.00	1.20	2.20	Pass
HT20	MCS0	1	48	5240	0.04	0.08	14.39	15.41		24.00	24.00	1.20	2.20	Pass
HT40	MCS0	1	38	5190	0.12	0.12	12.37	14.08		24.00	24.00	1.20	2.20	Pass
HT40	MCS0	1	46	5230	0.12	0.12	14.64	15.24		24.00	24.00	1.20	2.20	Pass
VHT20	MCS0	1	36	5180	0.08	0.06	13.88	13.91		24.00	24.00	1.20	2.20	Pass
VHT20	MCS0	1	44	5220	0.08	0.06	14.70	15.37		24.00	24.00	1.20	2.20	Pass
VHT20	MCS0	1	48	5240	0.08	0.06	14.37	15.35		24.00	24.00	1.20	2.20	Pass
VHT40	MCS0	1	38	5190	0.12	0.12	12.02	13.85		24.00	24.00	1.20	2.20	Pass
VHT40	MCS0	1	46	5230	0.12	0.12	14.63	15.21		24.00	24.00	1.20	2.20	Pass
VHT80	MCS0	1	42	5210	0.42	0.25	13.48	13.31		24.00	24.00	1.20	2.20	Pass
HT20	MCS0	2	36	5180	0.04	0.08	11.73	12.00	14.88	24.00	2.20			Pass
HT20	MCS0	2	44	5220	0.04	0.08	11.95	12.24	15.11	24.00	2.20			Pass
HT20	MCS0	2	48	5240	0.04	0.08	12.26	12.26	15.27	24.00	2.20			Pass
HT40	MCS0	2	38	5190	0.12	0.12	9.96	10.27	13.13	24.00	2.20			Pass
HT40	MCS0	2	46	5230	0.12	0.12	14.50	14.77	17.65	24.00	2.20			Pass
VHT20	MCS0	2	36	5180	0.11	0.11	11.42	11.64	14.54	24.00	2.20			Pass
VHT20	MCS0	2	44	5220	0.11	0.11	11.76	11.99	14.89	24.00	2.20			Pass
VHT20	MCS0	2	48	5240	0.11	0.11	12.02	12.03	15.04	24.00	2.20			Pass
VHT40	MCS0	2	38	5190	0.22	0.22	9.97	10.14	13.07	24.00	2.20			Pass
VHT40	MCS0	2	46	5230	0.22	0.22	14.47	14.71	17.61	24.00	2.20			Pass
VHT80	MCS0	2	42	5210	0.42	0.25	10.72	10.70	13.72	24.00	2.20			Pass

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.05	0.05	14.57	15.58				2.60	1.40	26.99	Pass
11a	6Mbps	1	60	5300	0.05	0.05	14.91	15.36				2.60	1.40	26.99	Pass
11a	6Mbps	1	64	5320	0.05	0.05	13.05	13.97				2.60	1.40	26.99	Pass
HT20	MCS0	1	52	5260	0.04	0.08	14.65	15.31				2.60	1.40	26.99	Pass
HT20	MCS0	1	60	5300	0.04	0.08	14.87	14.97				2.60	1.40	26.99	Pass
HT20	MCS0	1	64	5320	0.04	0.08	13.96	13.87				2.60	1.40	26.99	Pass
HT40	MCS0	1	54	5270	0.12	0.12	14.45	15.16				2.60	1.40	26.99	Pass
HT40	MCS0	1	62	5310	0.12	0.12	13.57	14.38				2.60	1.40	26.99	Pass
VHT20	MCS0	1	52	5260	0.08	0.06	14.64	15.28				2.60	1.40	26.99	Pass
VHT20	MCS0	1	60	5300	0.08	0.06	14.79	14.93				2.60	1.40	26.99	Pass
VHT20	MCS0	1	64	5320	0.08	0.06	13.91	13.82				2.60	1.40	26.99	Pass
VHT40	MCS0	1	54	5270	0.12	0.12	14.44	15.13				2.60	1.40	26.99	Pass
VHT40	MCS0	1	62	5310	0.12	0.12	13.23	14.22				2.60	1.40	26.99	Pass
VHT80	MCS0	1	58	5290	0.42	0.25	13.44	13.15				2.60	1.40	26.99	Pass
HT20	MCS0	2	52	5260	0.04	0.08	14.63	14.99	17.82			2.60		26.99	Pass
HT20	MCS0	2	60	5300	0.04	0.08	14.21	14.94	17.60			2.60		26.99	Pass
HT20	MCS0	2	64	5320	0.04	0.08	11.84	11.21	14.55			2.60		26.99	Pass
HT40	MCS0	2	54	5270	0.12	0.12	13.60	14.48	17.07			2.60		26.99	Pass
HT40	MCS0	2	62	5310	0.12	0.12	11.50	11.94	14.74			2.60		26.99	Pass
VHT20	MCS0	2	52	5260	0.11	0.11	14.52	14.96	17.76			2.60		26.99	Pass
VHT20	MCS0	2	60	5300	0.11	0.11	14.26	14.63	17.46			2.60		26.99	Pass
VHT20	MCS0	2	64	5320	0.11	0.11	11.66	11.07	14.39			2.60		26.99	Pass
VHT40	MCS0	2	54	5270	0.22	0.22	13.54	14.43	17.02			2.60		26.99	Pass
VHT40	MCS0	2	62	5310	0.22	0.22	11.41	11.92	14.69			2.60		26.99	Pass
VHT80	MCS0	2	58	5290	0.42	0.25	9.14	9.50	12.34			2.60		26.99	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.05	0.05	12.96	12.70				1.60	1.80	26.99	Pass
11a	6Mbps	1	116	5580	0.05	0.05	14.72	14.83				1.60	1.80	26.99	Pass
11a	6Mbps	1	140	5700	0.05	0.05	12.19	12.97				1.60	1.80	26.99	Pass
11a	6Mbps	1	144	5720	0.05	0.05	12.34	12.96				1.60	1.80	26.99	Pass
HT20	MCS0	1	100	5500	0.04	0.08	12.88	13.09				1.60	1.80	26.99	Pass
HT20	MCS0	1	116	5580	0.04	0.08	14.37	14.49				1.60	1.80	26.99	Pass
HT20	MCS0	1	140	5700	0.04	0.08	12.98	12.56				1.60	1.80	26.99	Pass
HT20	MCS0	1	144	5720	0.04	0.08	12.95	12.57				1.60	1.80	26.99	Pass
HT40	MCS0	1	102	5510	0.12	0.12	13.95	14.26				1.60	1.80	26.99	Pass
HT40	MCS0	1	110	5550	0.12	0.12	14.50	14.61				1.60	1.80	26.99	Pass
HT40	MCS0	1	134	5670	0.12	0.12	14.15	14.74				1.60	1.80	26.99	Pass
HT40	MCS0	1	142	5710	0.12	0.12	14.36	14.65				1.60	1.80	26.99	Pass
VHT20	MCS0	1	100	5500	0.08	0.06	12.84	13.04				1.60	1.80	26.99	Pass
VHT20	MCS0	1	116	5580	0.08	0.06	14.36	14.76				1.60	1.80	26.99	Pass
VHT20	MCS0	1	140	5700	0.08	0.06	12.97	12.44				1.60	1.80	26.99	Pass
VHT20	MCS0	1	144	5720	0.08	0.06	12.93	12.48				1.60	1.80	26.99	Pass
VHT40	MCS0	1	102	5510	0.12	0.12	13.87	14.25				1.60	1.80	26.99	Pass
VHT40	MCS0	1	110	5550	0.12	0.12	14.41	14.75				1.60	1.80	26.99	Pass
VHT40	MCS0	1	134	5670	0.12	0.12	14.12	14.55				1.60	1.80	26.99	Pass
VHT40	MCS0	1	142	5710	0.12	0.12	14.35	14.34				1.60	1.80	26.99	Pass
VHT80	MCS0	1	106	5530	0.42	0.25	13.55	13.85				1.60	1.80	26.99	Pass
VHT80	MCS0	1	122	5610	0.42	0.25	14.71	14.52				1.60	1.80	26.99	Pass
VHT80	MCS0	1	138	5690	0.42	0.25	14.54	14.24				1.60	1.80	26.99	Pass
HT20	MCS0	2	100	5500	0.04	0.08	11.58	11.57	14.58			1.80		26.99	Pass
HT20	MCS0	2	116	5580	0.04	0.08	14.58	14.17	17.39			1.80		26.99	Pass
HT20	MCS0	2	140	5700	0.04	0.08	11.14	11.46	14.31			1.80		26.99	Pass
HT20	MCS0	2	144	5720	0.04	0.08	11.06	11.33	14.21			1.80		26.99	Pass
HT40	MCS0	2	102	5510	0.12	0.12	11.35	11.23	14.30			1.80		26.99	Pass
HT40	MCS0	2	110	5550	0.12	0.12	13.62	14.18	16.92			1.80		26.99	Pass
HT40	MCS0	2	134	5670	0.12	0.12	13.27	14.44	16.90			1.80		26.99	Pass
HT40	MCS0	2	142	5710	0.12	0.12	12.93	14.54	16.82			1.80		26.99	Pass
VHT20	MCS0	2	100	5500	0.11	0.11	11.44	11.43	14.45			1.80		26.99	Pass
VHT20	MCS0	2	116	5580	0.11	0.11	14.58	14.12	17.37			1.80		26.99	Pass
VHT20	MCS0	2	140	5700	0.11	0.11	11.04	11.21	14.14			1.80		26.99	Pass
VHT20	MCS0	2	144	5720	0.11	0.11	10.97	11.25	14.13			1.80		26.99	Pass
VHT40	MCS0	2	102	5510	0.22	0.22	11.23	11.30	14.28			1.80		26.99	Pass
VHT40	MCS0	2	110	5550	0.22	0.22	13.51	14.23	16.90			1.80		26.99	Pass
VHT40	MCS0	2	134	5670	0.22	0.22	13.30	14.39	16.89			1.80		26.99	Pass
VHT40	MCS0	2	142	5710	0.22	0.22	12.99	14.47	16.81			1.80		26.99	Pass
VHT80	MCS0	2	106	5530	0.42	0.25	11.63	10.26	14.01			1.80		26.99	Pass
VHT80	MCS0	2	122	5610	0.42	0.25	14.11	13.97	17.05			1.80		26.99	Pass
VHT80	MCS0	2	138	5690	0.42	0.25	14.47	14.05	17.28			1.80		26.99	Pass



Appendix B. Radiated Spurious Emission

Band 1 - 5150~5250MHz

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.42	54.9	-19.1	74	46.18	32.03	8.77	32.08	241	75	P	H
		5150	46.53	-7.47	54	37.81	32.03	8.77	32.08	241	75	A	H
		5180	106.1	-	-	97.35	32.04	8.81	32.1	241	75	P	H
	*	5180	98.5	-	-	89.75	32.04	8.81	32.1	241	75	A	H
		5150	58.03	-15.97	74	49.31	32.03	8.77	32.08	250	139	P	V
		5150	49.16	-4.84	54	40.44	32.03	8.77	32.08	250	139	A	V
	*	5180	108.97	-	-	100.22	32.04	8.81	32.1	250	139	P	V
	*	5180	99.29	-	-	90.54	32.04	8.81	32.1	250	139	A	V
802.11a CH 44 5220MHz		5146.64	51.69	-22.31	74	42.97	32.03	8.77	32.08	150	73	P	H
		5150	43.11	-10.89	54	34.39	32.03	8.77	32.08	150	73	A	H
	*	5220	105.8	-	-	97.03	32.04	8.84	32.11	150	73	P	H
	*	5220	96.56	-	-	87.79	32.04	8.84	32.11	150	73	A	H
		5377.68	51.56	-22.44	74	42.69	32.08	9.02	32.23	150	73	P	H
		5375.76	43.4	-10.6	54	34.54	32.07	9.02	32.23	150	73	A	H
		5143.52	52.63	-21.37	74	43.89	32.03	8.77	32.06	165	331	P	V
		5150	42.96	-11.04	54	34.24	32.03	8.77	32.08	165	331	A	V
	*	5220	107.08	-	-	98.31	32.04	8.84	32.11	165	331	P	V
	*	5220	97.27	-	-	88.5	32.04	8.84	32.11	165	331	A	V
		5370	50.07	-23.93	74	41.2	32.07	9.02	32.22	165	331	P	V
		5375.28	42.15	-11.85	54	33.29	32.07	9.02	32.23	165	331	A	V



802.11a CH 48 5240MHz		5082.68	50.09	-23.91	74	41.36	32.02	8.74	32.03	150	91	P	H
		5149.24	40.72	-13.28	54	32	32.03	8.77	32.08	150	91	A	H
	*	5240	101.96	-	-	93.16	32.05	8.88	32.13	150	91	P	H
	*	5240	92.26	-	-	83.46	32.05	8.88	32.13	150	91	A	H
		5403.12	49.16	-24.84	74	40.27	32.08	9.06	32.25	150	91	P	H
		5404.32	40.48	-13.52	54	31.59	32.08	9.06	32.25	150	91	A	H
		5128.7	52.45	-21.55	74	43.71	32.03	8.77	32.06	175	331	P	V
		5148.98	42.18	-11.82	54	33.46	32.03	8.77	32.08	175	331	A	V
	*	5240	107.29	-	-	98.49	32.05	8.88	32.13	175	331	P	V
	*	5240	98.56	-	-	89.76	32.05	8.88	32.13	175	331	A	V
		5351.28	50.87	-23.13	74	42	32.07	9.02	32.22	175	331	P	V
		5351.04	42.43	-11.57	54	33.56	32.07	9.02	32.22	175	331	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	48.78	-25.22	74	59.21	38.79	11.63	60.85	250	0	P	H
		15540	49.35	-24.65	74	58.68	38.92	13.9	62.15	150	0	P	H
		10360	49.44	-24.56	74	59.87	38.79	11.63	60.85	250	0	P	V
		15540	47.25	-26.75	74	56.58	38.92	13.9	62.15	150	0	P	V
802.11a CH 44 5220MHz		10440	48.33	-25.67	74	58.62	38.85	11.66	60.8	250	0	P	H
		15660	52.08	-21.92	74	61.69	38.63	13.96	62.2	150	0	P	H
		15660	47.95	-6.05	54	57.56	38.63	13.96	62.2	150	0	A	H
		10440	48.32	-25.68	74	58.61	38.85	11.66	60.8	250	0	P	V
		15660	51.49	-22.51	74	61.1	38.63	13.96	62.2	150	0	P	V
		15660	48.74	-5.26	54	58.35	38.63	13.96	62.2	150	0	A	V
802.11a CH 48 5240MHz		10480	47.83	-26.17	74	58.03	38.89	11.67	60.76	250	0	P	H
		15720	51.33	-22.67	74	61.13	38.46	13.98	62.24	150	0	P	H
		15720	47.9	-6.1	54	57.7	38.46	13.98	62.24	150	0	A	H
		10480	48.57	-25.43	74	58.77	38.89	11.67	60.76	250	0	P	V
		15720	50.03	-23.97	74	59.83	38.46	13.98	62.24	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5064.22	51.73	-22.27	74	43.03	32.01	8.7	32.01	150	6	P	H
		5150	44.65	-9.35	54	35.93	32.03	8.77	32.08	150	6	A	H
		5180	104.13	-	-	95.38	32.04	8.81	32.1	150	6	P	H
	*	5180	93.5	-	-	84.75	32.04	8.81	32.1	150	6	A	H
		5148.72	55.37	-18.63	74	46.65	32.03	8.77	32.08	233	0	P	V
		5148.46	47.5	-6.5	54	38.78	32.03	8.77	32.08	233	0	A	V
	*	5180	108.01	-	-	99.26	32.04	8.81	32.1	233	0	P	V
	*	5180	100.58	-	-	91.83	32.04	8.81	32.1	233	0	A	V
802.11n HT20 CH 44 5220MHz		5058.24	51.17	-22.83	74	42.47	32.01	8.7	32.01	153	360	P	H
		5064.74	42.66	-11.34	54	33.96	32.01	8.7	32.01	153	360	A	H
	*	5220	101.03	-	-	92.26	32.04	8.84	32.11	153	360	P	H
	*	5220	91.27	-	-	82.5	32.04	8.84	32.11	153	360	A	H
		5388.24	47.3	-26.7	74	38.39	32.08	9.06	32.23	153	360	P	H
		5366.88	40.07	-13.93	54	31.2	32.07	9.02	32.22	153	360	A	H
		5107.12	52.56	-21.44	74	43.85	32.02	8.74	32.05	150	24	P	V
		5149.76	44.29	-9.71	54	35.57	32.03	8.77	32.08	150	24	A	V
	*	5220	104.58	-	-	95.81	32.04	8.84	32.11	150	24	P	V
	*	5220	95.02	-	-	86.25	32.04	8.84	32.11	150	24	A	V
		5375.76	51.52	-22.48	74	42.66	32.07	9.02	32.23	150	24	P	V
		5375.76	43.23	-10.77	54	34.37	32.07	9.02	32.23	150	24	A	V



802.11n HT20 CH 48 5240MHz		5018.46	49.63	-24.37	74	40.96	32	8.67	32	150	33	P	H
		5120.12	42.01	-11.99	54	33.28	32.02	8.77	32.06	150	33	A	H
	*	5240	101.23	-	-	92.43	32.05	8.88	32.13	150	33	P	H
	*	5240	91.39	-	-	82.59	32.05	8.88	32.13	150	33	A	H
		5416.32	49.33	-24.67	74	40.44	32.08	9.06	32.25	150	33	P	H
		5395.68	42.19	-11.81	54	33.28	32.08	9.06	32.23	150	33	A	H
		5142.74	51	-23	74	42.26	32.03	8.77	32.06	250	175	P	V
		5137.54	43.99	-10.01	54	35.25	32.03	8.77	32.06	250	175	A	V
	*	5240	106.53	-	-	97.73	32.05	8.88	32.13	250	175	P	V
	*	5240	97.07	-	-	88.27	32.05	8.88	32.13	250	175	A	V
		5350.8	52.44	-21.56	74	43.57	32.07	9.02	32.22	250	175	P	V
		5396.64	45.47	-8.53	54	36.56	32.08	9.06	32.23	250	175	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	49.01	-24.99	74	59.44	38.79	11.63	60.85	250	0	P	H
		15540	45.1	-28.9	74	54.43	38.92	13.9	62.15	150	0	P	H
		10360	48.23	-25.77	74	58.66	38.79	11.63	60.85	250	0	P	V
		15540	45.76	-28.24	74	55.09	38.92	13.9	62.15	150	0	P	V
802.11n HT20 CH 44 5220MHz		10440	48.13	-25.87	74	58.42	38.85	11.66	60.8	250	0	P	H
		15660	47.47	-26.53	74	57.08	38.63	13.96	62.2	150	0	P	H
		10440	48.57	-25.43	74	58.86	38.85	11.66	60.8	250	0	P	V
		15660	49.34	-24.66	74	58.95	38.63	13.96	62.2	150	0	P	V
802.11n HT20 CH 48 5240MHz		10480	48.72	-25.28	74	58.92	38.89	11.67	60.76	250	0	P	H
		15720	48.15	-25.85	74	57.95	38.46	13.98	62.24	150	0	P	H
		10480	47.45	-26.55	74	57.65	38.89	11.67	60.76	250	0	P	V
		15720	46.92	-27.08	74	56.72	38.46	13.98	62.24	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5133.38	51.65	-22.35	74	42.91	32.03	8.77	32.06	157	6	P	H
		5149.24	44.03	-9.97	54	35.31	32.03	8.77	32.08	157	6	A	H
	*	5190	100.05	-	-	91.3	32.04	8.81	32.1	157	6	P	H
	*	5190	90	-	-	81.25	32.04	8.81	32.1	157	6	A	H
		5360.32	48.2	-25.8	74	39.33	32.07	9.02	32.22	157	6	P	H
		5356.96	40.35	-13.65	54	31.48	32.07	9.02	32.22	157	6	A	H
		5145.34	53.7	-20.3	74	44.98	32.03	8.77	32.08	210	0	P	V
		5149.76	46.72	-7.28	54	38	32.03	8.77	32.08	210	0	A	V
	*	5190	103.63	-	-	94.88	32.04	8.81	32.1	210	0	P	V
	*	5190	94.31	-	-	85.56	32.04	8.81	32.1	210	0	A	V
		5409.32	49.54	-24.46	74	40.65	32.08	9.06	32.25	210	0	P	V
		5353.32	42.13	-11.87	54	33.26	32.07	9.02	32.22	210	0	A	V
802.11n HT40 CH 46 5230MHz		5149.5	51.88	-22.12	74	43.16	32.03	8.77	32.08	152	359	P	H
		5141.18	42.94	-11.06	54	34.2	32.03	8.77	32.06	152	359	A	H
	*	5230	98.95	-	-	90.19	32.05	8.84	32.13	152	359	P	H
		5230	94.25	-	-	85.49	32.05	8.84	32.13	152	359	A	H
		5428.56	47.59	-26.41	74	38.68	32.09	9.09	32.27	152	359	P	H
		5366.16	39.74	-14.26	54	30.87	32.07	9.02	32.22	152	359	A	H
		5147.42	54.31	-19.69	74	45.59	32.03	8.77	32.08	159	30	P	V
		5150	48.26	-5.74	54	39.54	32.03	8.77	32.08	159	30	A	V
	*	5230	108.6	-	-	99.84	32.05	8.84	32.13	159	30	P	V
	*	5230	98.76	-	-	90	32.05	8.84	32.13	159	30	A	V
		5399.76	53.36	-20.64	74	44.47	32.08	9.06	32.25	159	30	P	V
		5379.6	46.06	-7.94	54	37.19	32.08	9.02	32.23	159	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	48.64	-25.36	74	59.03	38.81	11.64	60.84	250	0	P	H
		15570	44.98	-29.02	74	54.39	38.83	13.92	62.16	150	0	P	H
		10380	48.56	-25.44	74	58.95	38.81	11.64	60.84	250	0	P	V
		15570	44.68	-29.32	74	54.09	38.83	13.92	62.16	150	0	P	V
802.11n HT40 CH 46 5230MHz		10460	47.18	-26.82	74	57.44	38.86	11.67	60.79	250	0	P	H
		15690	50.56	-23.44	74	60.26	38.54	13.98	62.22	150	0	P	H
		10460	47.42	-26.58	74	57.68	38.86	11.67	60.79	250	0	P	V
		15690	50.53	-23.47	74	60.23	38.54	13.98	62.22	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5129.74	56.84	-17.16	74	48.1	32.03	8.77	32.06	150	4	P	H
		5146.9	49.61	-4.39	54	40.89	32.03	8.77	32.08	150	4	A	H
	*	5210	97.2	-	-	88.43	32.04	8.84	32.11	150	4	P	H
	*	5210	87.87	-	-	79.1	32.04	8.84	32.11	150	4	A	H
		5426.16	48.64	-25.36	74	39.77	32.08	9.06	32.27	150	4	P	H
		5379.6	42.32	-11.68	54	33.45	32.08	9.02	32.23	150	4	A	H
		5144.82	56.61	-17.39	74	47.89	32.03	8.77	32.08	150	39	P	V
		5148.72	50.23	-3.77	54	41.51	32.03	8.77	32.08	150	39	A	V
	*	5210	100.69	-	-	91.92	32.04	8.84	32.11	150	39	P	V
	*	5210	91.52	-	-	82.75	32.04	8.84	32.11	150	39	A	V
		5358.24	50.66	-23.34	74	41.79	32.07	9.02	32.22	150	39	P	V
		5364.96	44.37	-9.63	54	35.5	32.07	9.02	32.22	150	39	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10420	49.3	-24.7	74	59.62	38.83	11.66	60.81	250	0	P	H
VHT80		15630	46.06	-27.94	74	55.65	38.67	13.94	62.2	150	0	P	H
CH 42		10420	47.89	-26.11	74	58.21	38.83	11.66	60.81	250	0	P	V
5210MHz		15630	46.09	-27.91	74	55.68	38.67	13.94	62.2	150	0	P	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		5130	50.31	-23.69	74	41.57	32.03	8.77	32.06	250	289	P	H
		5149.5	40.94	-13.06	54	32.22	32.03	8.77	32.08	250	289	A	H
	*	5260	104.39	-	-	95.61	32.05	8.88	32.15	250	289	P	H
	*	5260	98.59	-	-	89.81	32.05	8.88	32.15	250	289	A	H
		5383.44	50.52	-23.48	74	41.65	32.08	9.02	32.23	250	289	P	H
		5415.6	42.12	-11.88	54	33.23	32.08	9.06	32.25	250	289	A	H
		5136.5	51.61	-22.39	74	42.87	32.03	8.77	32.06	250	203	P	V
		5104.26	43.04	-10.96	54	34.33	32.02	8.74	32.05	250	203	A	V
	*	5260	106.68	-	-	97.9	32.05	8.88	32.15	250	203	P	V
	*	5260	98.09	-	-	89.31	32.05	8.88	32.15	250	203	A	V
		5430.96	50.06	-23.94	74	41.15	32.09	9.09	32.27	250	203	P	V
		5362.8	41.96	-12.04	54	33.09	32.07	9.02	32.22	250	203	A	V
802.11a CH 60 5300MHz		5138.25	49.96	-24.04	74	41.22	32.03	8.77	32.06	168	72	P	H
		5144.55	41.13	-12.87	54	32.41	32.03	8.77	32.08	168	72	A	H
	*	5300	103.99	-	-	95.18	32.06	8.93	32.18	168	72	P	H
	*	5300	96.32	-	-	87.51	32.06	8.93	32.18	168	72	A	H
		5358	51.17	-22.83	74	42.3	32.07	9.02	32.22	168	72	P	H
		5351.04	42.49	-11.51	54	33.62	32.07	9.02	32.22	168	72	A	H
		5138.25	50.9	-23.1	74	42.16	32.03	8.77	32.06	250	321	P	V
		5144.2	42.49	-11.51	54	33.77	32.03	8.77	32.08	250	321	A	V
	*	5300	107.96	-	-	99.15	32.06	8.93	32.18	250	321	P	V
	*	5300	98.4	-	-	89.59	32.06	8.93	32.18	250	321	A	V
		5408.64	51.96	-22.04	74	43.07	32.08	9.06	32.25	250	321	P	V
		5350.8	43.43	-10.57	54	34.56	32.07	9.02	32.22	250	321	A	V



802.11a CH 64 5320MHz	*	5320	102.69	-	-	93.84	32.06	8.97	32.18	150	72	P	H
	*	5320	93.54	-	-	84.69	32.06	8.97	32.18	150	72	A	H
		5386.08	50.13	-23.87	74	41.26	32.08	9.02	32.23	150	72	P	H
		5350.08	41.16	-12.84	54	32.29	32.07	9.02	32.22	150	72	A	H
	*	5320	103.62	-	-	94.77	32.06	8.97	32.18	250	320	P	V
	*	5320	95.17	-	-	86.32	32.06	8.97	32.18	250	320	A	V
		5356.16	50.83	-23.17	74	41.96	32.07	9.02	32.22	250	320	P	V
		5350.24	42.21	-11.79	54	33.34	32.07	9.02	32.22	250	320	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (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	47.43	-26.57	74	57.52	38.93	11.69	60.71	150	220	P	H
		15780	48.14	-25.86	74	58.03	38.34	14.03	62.26	159	345	P	H
		10520	46.77	-27.23	74	56.86	38.93	11.69	60.71	150	220	P	V
		15780	50.26	-23.74	74	60.15	38.34	14.03	62.26	159	345	P	V
802.11a CH 60 5300MHz		10600	47.56	-26.44	74	57.26	39.11	11.71	60.52	185	215	P	H
		15900	47.8	-26.2	74	57.98	38.05	14.09	62.32	196	190	P	H
		10600	48.1	-25.9	74	57.8	39.11	11.71	60.52	185	215	P	V
		15900	48.29	-25.71	74	58.47	38.05	14.09	62.32	196	190	P	V
802.11a CH 64 5320MHz		10640	48.49	-25.51	74	58.03	39.18	11.73	60.45	152	135	P	H
		15960	47.45	-26.55	74	57.79	37.88	14.13	62.35	173	245	P	H
		10640	48.83	-25.17	74	58.37	39.18	11.73	60.45	152	135	P	V
		15960	48.39	-25.61	74	58.73	37.88	14.13	62.35	173	245	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5145.86	54.08	-19.92	74	44.46	32.93	8.77	32.08	239	77	P	H
		5144.56	45.5	-8.5	54	35.88	32.93	8.77	32.08	239	77	A	H
	*	5260	110.65	-	-	100.97	32.95	8.88	32.15	239	77	P	H
	*	5260	100.89	-	-	91.21	32.95	8.88	32.15	239	77	A	H
		5372.16	52.98	-21.02	74	43.21	32.97	9.02	32.22	239	77	P	H
		5375.76	46.32	-7.68	54	36.56	32.97	9.02	32.23	239	77	A	H
		5144.56	55.18	-18.82	74	45.56	32.93	8.77	32.08	150	31	P	V
		5148.98	47.09	-6.91	54	37.47	32.93	8.77	32.08	150	31	A	V
	*	5260	111.53	-	-	101.85	32.95	8.88	32.15	150	31	P	V
		5260	102.79	-	-	93.11	32.95	8.88	32.15	150	31	A	V
		5419.44	53.57	-20.43	74	43.78	32.98	9.06	32.25	150	31	P	V
		5418.96	47.17	-6.83	54	37.38	32.98	9.06	32.25	150	31	A	V
802.11n HT20 CH 60 5300MHz		5143.5	51.94	-22.06	74	42.3	32.93	8.77	32.06	250	32	P	H
		5142.45	44.39	-9.61	54	34.75	32.93	8.77	32.06	250	32	A	H
	*	5300	106.46	-	-	96.75	32.96	8.93	32.18	250	32	P	H
	*	5300	97.08	-	-	87.37	32.96	8.93	32.18	250	32	A	H
		5351.76	53.11	-20.89	74	43.34	32.97	9.02	32.22	250	32	P	H
		5350.08	45.18	-8.82	54	35.41	32.97	9.02	32.22	250	32	A	H
		5147.7	55.4	-18.6	74	45.78	32.93	8.77	32.08	154	28	P	V
		5144.2	48.15	-5.85	54	38.53	32.93	8.77	32.08	154	28	A	V
	*	5300	109.48	-	-	99.77	32.96	8.93	32.18	154	28	P	V
	*	5300	99.92	-	-	90.21	32.96	8.93	32.18	154	28	A	V
		5353.2	56.53	-17.47	74	46.76	32.97	9.02	32.22	154	28	P	V
		5350.56	48.83	-5.17	54	39.06	32.97	9.02	32.22	154	28	A	V



802.11n HT20 CH 64 5320MHz	*	5320	107.47	-	-	98.62	32.06	8.97	32.18	250	289	P	H
	*	5320	96.06	-	-	87.21	32.06	8.97	32.18	250	289	A	H
		5350.4	51.7	-22.3	74	42.83	32.07	9.02	32.22	250	289	P	H
		5350.56	45.33	-8.67	54	36.46	32.07	9.02	32.22	250	289	A	H
	*	5320	107.98	-	-	99.13	32.06	8.97	32.18	250	139	P	V
	*	5320	100.26	-	-	91.41	32.06	8.97	32.18	250	139	A	V
		5365.44	54.48	-19.52	74	45.61	32.07	9.02	32.22	250	139	P	V
		5351.04	47.5	-6.5	54	38.63	32.07	9.02	32.22	250	139	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 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	47.79	-26.21	74	57.88	38.93	11.69	60.71	250	0	P	H
		15780	50.82	-23.18	74	60.71	38.34	14.03	62.26	150	0	P	H
		10520	46.94	-27.06	74	57.03	38.93	11.69	60.71	250	0	P	V
		15780	53.32	-20.68	74	63.21	38.34	14.03	62.26	150	0	P	V
		15780	50.22	-3.78	54	60.11	38.34	14.03	62.26	150	0	A	V
802.11n HT20 CH 60 5300MHz		10600	46.65	-27.35	74	56.35	39.11	11.71	60.52	250	0	P	H
		15900	51.21	-22.79	74	61.39	38.05	14.09	62.32	150	0	P	H
		15900	49.66	-4.34	54	59.84	38.05	14.09	62.32	150	0	A	H
		10600	47.06	-26.94	74	56.76	39.11	11.71	60.52	250	0	P	V
		15900	54.22	-19.78	74	64.4	38.05	14.09	62.32	150	0	P	V
		15900	49.94	-4.06	54	60.12	38.05	14.09	62.32	150	0	A	V
802.11n HT20 CH 64 5320MHz		10640	48.88	-25.12	74	58.42	39.18	11.73	60.45	250	0	P	H
		15960	45.37	-28.63	74	55.71	37.88	14.13	62.35	150	0	P	H
		10640	48.98	-25.02	74	58.52	39.18	11.73	60.45	250	0	P	V
		15960	46.12	-27.88	74	56.46	37.88	14.13	62.35	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5130.26	50.32	-23.68	74	41.58	32.03	8.77	32.06	157	5	P	H
		5126.1	43	-11	54	34.26	32.03	8.77	32.06	157	5	A	H
	*	5270	101.64	-	-	92.86	32.05	8.88	32.15	157	5	P	H
	*	5270	92.13	-	-	83.35	32.05	8.88	32.15	157	5	A	H
		5351.04	49.37	-24.63	74	40.5	32.07	9.02	32.22	157	5	P	H
		5357.52	42.26	-11.74	54	33.39	32.07	9.02	32.22	157	5	A	H
		5142.74	53.52	-20.48	74	44.78	32.03	8.77	32.06	153	360	P	V
		5132.6	46.88	-7.12	54	38.14	32.03	8.77	32.06	153	360	A	V
	*	5270	107.63	-	-	98.85	32.05	8.88	32.15	153	360	P	V
	*	5270	99.14	-	-	90.36	32.05	8.88	32.15	153	360	A	V
		5357.28	53.9	-20.1	74	45.03	32.07	9.02	32.22	153	360	P	V
		5352.96	47.67	-6.33	54	38.8	32.07	9.02	32.22	153	360	A	V
802.11n HT40 CH 62 5310MHz		5150	50.12	-23.88	74	41.4	32.03	8.77	32.08	150	4	P	H
		5137.2	43.06	-10.94	54	34.32	32.03	8.77	32.06	150	4	A	H
	*	5310	98.44	-	-	89.59	32.06	8.97	32.18	150	4	P	H
	*	5310	89.95	-	-	81.1	32.06	8.97	32.18	150	4	A	H
		5354.16	50.71	-23.29	74	41.84	32.07	9.02	32.22	150	4	P	H
		5362.56	43.62	-10.38	54	34.75	32.07	9.02	32.22	150	4	A	H
		5145.95	49.91	-24.09	74	41.19	32.03	8.77	32.08	189	139	P	V
		5149.45	43.58	-10.42	54	34.86	32.03	8.77	32.08	189	139	A	V
	*	5310	105.39	-	-	96.54	32.06	8.97	32.18	189	139	P	V
	*	5310	95.12	-	-	86.27	32.06	8.97	32.18	189	139	A	V
		5353.68	57.74	-16.26	74	48.87	32.07	9.02	32.22	189	139	P	V
		5350.56	50.92	-3.08	54	42.05	32.07	9.02	32.22	189	139	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10440	46.78	-27.22	74	57.07	38.85	11.66	60.8	250	0	P	H
		15660	47.24	-26.76	74	56.85	38.63	13.96	62.2	150	0	P	H
		10440	47.81	-26.19	74	58.1	38.85	11.66	60.8	250	0	P	V
		15660	46.08	-27.92	74	55.69	38.63	13.96	62.2	150	0	P	V
802.11n HT40 CH 62 5310MHz		10620	49.93	-24.07	74	59.55	39.14	11.73	60.49	250	0	P	H
		15930	46.42	-27.58	74	56.68	37.97	14.11	62.34	150	0	P	H
		10620	48.71	-25.29	74	58.33	39.14	11.73	60.49	250	0	P	V
		15930	45.8	-28.2	74	56.06	37.97	14.11	62.34	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5121.16	50.4	-23.6	74	41.67	32.02	8.77	32.06	250	286	P	H
		5109.2	43.69	-10.31	54	34.98	32.02	8.74	32.05	250	286	A	H
	*	5290	97.55	-	-	88.73	32.06	8.93	32.17	250	286	P	H
	*	5290	87.23	-	-	78.41	32.06	8.93	32.17	250	286	A	H
		5350.08	54.18	-19.82	74	45.31	32.07	9.02	32.22	250	286	P	H
		5352.48	48.61	-5.39	54	39.74	32.07	9.02	32.22	250	286	A	H
		5032.5	50.37	-23.63	74	41.69	32.01	8.67	32	150	38	P	V
		5147.94	44.02	-9.98	54	35.3	32.03	8.77	32.08	150	38	A	V
	*	5290	99.89	-	-	91.07	32.06	8.93	32.17	150	38	P	V
	*	5290	90.93	-	-	82.11	32.06	8.93	32.17	150	38	A	V
		5355.36	54.92	-19.08	74	46.05	32.07	9.02	32.22	150	38	P	V
		5350.56	50.81	-3.19	54	41.94	32.07	9.02	32.22	150	38	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10580	48.28	-25.72	74	58.06	39.07	11.71	60.56	250	0	P	H
VHT80		15870	45.67	-28.33	74	55.82	38.09	14.07	62.31	150	0	P	H
CH 58		10580	48.67	-25.33	74	58.45	39.07	11.71	60.56	250	0	P	V
5290MHz		15870	46.62	-27.38	74	56.77	38.09	14.07	62.31	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5455.92	51.95	-22.05	74	43.05	32.09	9.09	32.28	213	312	P	H
		5470	43.91	-10.09	54	34.98	32.09	9.12	32.28	213	312	A	H
	*	5500	105.95	-	-	97.03	32.1	9.12	32.3	213	312	P	H
	*	5500	96.91	-	-	87.99	32.1	9.12	32.3	213	312	A	H
		5441.84	55.22	-18.78	74	46.31	32.09	9.09	32.27	250	136	P	V
		5470	47.19	-6.81	54	38.26	32.09	9.12	32.28	250	136	A	V
	*	5500	108.84	-	-	99.92	32.1	9.12	32.3	250	136	P	V
	*	5500	100.08	-	-	91.16	32.1	9.12	32.3	250	136	A	V
802.11a CH 116 5580MHz		5459.68	50.25	-23.75	74	40.45	32.99	9.09	32.28	150	78	P	H
		5424.4	41.46	-12.54	54	31.69	32.98	9.06	32.27	150	78	A	H
	*	5580	103.75	-	-	93.66	33.08	9.17	32.16	150	78	P	H
	*	5580	93.78	-	-	83.69	33.08	9.17	32.16	150	78	A	H
		5731.925	50.96	-23.04	74	40.35	33.27	9.28	31.94	150	78	P	H
		5736.335	42.68	-11.32	54	32.05	33.29	9.28	31.94	150	78	A	H
		5457.52	50.06	-23.94	74	40.26	32.99	9.09	32.28	171	324	P	V
		5424.16	41.59	-12.41	54	31.8	32.98	9.06	32.25	171	324	A	V
	*	5580	105.5	-	-	95.41	33.08	9.17	32.16	171	324	P	V
	*	5580	95.51	-	-	85.42	33.08	9.17	32.16	171	324	A	V
		5736.02	51.28	-22.72	74	40.65	33.29	9.28	31.94	171	324	P	V
		5744.21	42.93	-11.07	54	32.28	33.29	9.3	31.94	171	324	A	V



802.11a CH 140 5700MHz	*	5700	103.06	-	-	92.89	32.9	9.28	32.01	195	291	P	H
	*	5700	93.74	-	-	83.57	32.9	9.28	32.01	195	291	A	H
		5728.44	53.37	-20.63	74	43.03	33.04	9.28	31.98	195	291	P	H
		5725	43.38	-10.62	54	33.04	33.04	9.28	31.98	195	291	A	H
	*	5700	104.17	-	-	94	32.9	9.28	32.01	150	45	P	V
	*	5700	94.9	-	-	84.73	32.9	9.28	32.01	150	45	A	V
		5737.32	52.45	-21.55	74	42	33.11	9.28	31.94	150	45	P	V
		5725	43.76	-10.24	54	33.42	33.04	9.28	31.98	150	45	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (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)
802.11a CH 100 5500MHz		11000	48.42	-25.58	74	56.32	39.9	11.86	59.66	250	0	P	H
		16500	47.93	-26.07	74	56.18	38.6	14.41	61.26	150	0	P	H
		11000	48.87	-25.13	74	56.77	39.9	11.86	59.66	250	0	P	V
		16500	47.75	-26.25	74	56	38.6	14.41	61.26	150	0	P	V
802.11a CH 116 5580MHz		11160	48.09	-25.91	74	56.11	39.7	11.93	59.65	250	0	P	H
		16740	56.07	-17.93	74	62.82	39.37	14.57	60.69	156	350	P	H
		16740	50.2	-3.8	54	56.95	39.37	14.57	60.69	150	0	A	H
		11160	48.29	-25.71	74	56.31	39.7	11.93	59.65	250	0	P	V
		16740	54.79	-19.21	74	61.54	39.37	14.57	60.69	150	0	P	V
		16740	50.03	-3.97	54	56.78	39.37	14.57	60.69	150	0	A	V
802.11a CH 140 5700MHz		11400	47.55	-26.45	74	55.75	39.42	12.02	59.64	250	0	P	H
		17100	47.15	-26.85	74	51.65	40.82	14.76	60.08	150	0	P	H
		11400	48.15	-25.85	74	56.05	39.72	12.02	59.64	250	0	P	V
		17100	49.29	-24.71	74	54.87	39.74	14.76	60.08	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5466.96	52.6	-21.4	74	43.67	32.09	9.12	32.28	162	74	P	H
		5462.16	44.91	-9.09	54	36.01	32.09	9.09	32.28	162	74	A	H
	*	5500	106.74	-	-	97.82	32.1	9.12	32.3	162	74	P	H
	*	5500	98.17	-	-	89.25	32.1	9.12	32.3	162	74	A	H
		5460.24	55.01	-18.99	74	46.11	32.09	9.09	32.28	180	137	P	V
		5468.4	46.58	-7.42	54	37.65	32.09	9.12	32.28	180	137	A	V
	*	5500	107.77	-	-	98.85	32.1	9.12	32.3	180	137	P	V
	*	5500	98.66	-	-	89.74	32.1	9.12	32.3	180	137	A	V
802.11n HT20 CH 116 5580MHz		5424.4	52.01	-21.99	74	43.14	32.08	9.06	32.27	150	77	P	H
		5423.92	44.59	-9.41	54	35.7	32.08	9.06	32.25	150	77	A	H
	*	5580	108.64	-	-	99.24	32.39	9.17	32.16	150	77	P	H
	*	5580	99.86	-	-	90.46	32.39	9.17	32.16	150	77	A	H
		5736.65	53.94	-20.06	74	43.49	33.11	9.28	31.94	150	77	P	H
		5736.02	46.82	-7.18	54	36.37	33.11	9.28	31.94	150	77	A	H
		5454.88	52.38	-21.62	74	43.48	32.09	9.09	32.28	195	326	P	V
		5423.92	44.73	-9.27	54	35.84	32.08	9.06	32.25	195	326	A	V
	*	5580	110.63	-	-	101.23	32.39	9.17	32.16	195	326	P	V
	*	5580	101.72	-	-	92.32	32.39	9.17	32.16	195	326	A	V
		5738.855	54.79	-19.21	74	44.32	33.11	9.3	31.94	195	326	P	V
		5740.745	46.62	-7.38	54	36.15	33.11	9.3	31.94	195	326	A	V



802.11n HT20 CH 140 5700MHz	*	5700	98.93	-	-	88.76	32.9	9.28	32.01	196	291	P	H
	*	5700	90.51	-	-	80.34	32.9	9.28	32.01	196	291	A	H
		5748.44	54.98	-19.02	74	44.51	33.11	9.3	31.94	196	291	P	H
		5725.08	45.67	-8.33	54	35.33	33.04	9.28	31.98	196	291	A	H
	*	5700	109.57	-	-	99.4	32.9	9.28	32.01	250	167	P	V
	*	5700	99.19	-	-	89.02	32.9	9.28	32.01	250	167	A	V
		5727.4	58.1	-15.9	74	47.76	33.04	9.28	31.98	250	167	P	V
		5725.24	50.63	-3.37	54	40.29	33.04	9.28	31.98	250	167	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 HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	48.29	-25.71	74	56.29	39.8	11.86	59.66	250	0	P	H
		16500	46.6	-27.4	74	54.95	38.5	14.41	61.26	150	0	P	H
		11000	49.3	-24.7	74	57.3	39.8	11.86	59.66	250	0	P	V
		16500	46.99	-27.01	74	55.34	38.5	14.41	61.26	150	0	P	V
802.11n HT20 CH 116 5580MHz		11160	48.52	-25.48	74	56.54	39.7	11.93	59.65	250	0	P	H
		16740	55.64	-18.36	74	62.39	39.37	14.57	60.69	250	360	P	H
		16740	48.14	-5.86	54	54.89	39.37	14.57	60.69	250	360	A	H
		11160	48.43	-25.57	74	56.45	39.7	11.93	59.65	250	0	P	V
		16740	57.93	-16.07	74	64.68	39.37	14.57	60.69	150	360	P	V
		16740	49.75	-4.25	54	56.5	39.37	14.57	60.69	150	360	A	V
802.11n HT20 CH 140 5700MHz		11400	48.88	-25.12	74	57.08	39.42	12.02	59.64	250	0	P	H
		17100	48.33	-25.67	74	52.83	40.82	14.76	60.08	150	0	P	H
		11400	48.57	-25.43	74	56.77	39.42	12.02	59.64	250	0	P	V
		17100	48.49	-25.51	74	52.99	40.82	14.76	60.08	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5469.28	57.66	-16.34	74	48.73	32.09	9.12	32.28	193	290	P	H
		5463.52	52.15	-1.85	54	43.25	32.09	9.09	32.28	193	290	P	H
	*	5510	98.94	-	-	89.96	32.1	9.14	32.26	193	290	P	H
	*	5510	91.08	-	-	82.1	32.1	9.14	32.26	193	290	A	H
		5756.81	49.87	-24.13	74	39.28	33.19	9.3	31.9	193	290	P	H
		5725.625	41.9	-12.1	54	31.56	33.04	9.28	31.98	193	290	A	H
		5469.28	54.71	-19.29	74	45.78	32.09	9.12	32.28	179	138	P	V
		5469.52	48.4	-5.6	54	39.47	32.09	9.12	32.28	179	138	A	V
	*	5510	105.22	-	-	96.24	32.1	9.14	32.26	179	138	P	V
	*	5510	95.2	-	-	86.22	32.1	9.14	32.26	179	138	A	V
		5736.02	49.92	-24.08	74	39.47	33.11	9.28	31.94	179	138	P	V
		5725.625	41.76	-12.24	54	31.42	33.04	9.28	31.98	179	138	A	V
802.11n HT40 CH 110 5550MHz		5460.64	50.66	-23.34	74	41.76	32.09	9.09	32.28	154	41	P	H
		5462.08	42.52	-11.48	54	33.62	32.09	9.09	32.28	154	41	A	H
	*	5550	100.19	-	-	90.93	32.32	9.17	32.23	154	41	P	H
	*	5550	91.57	-	-	82.31	32.32	9.17	32.23	154	41	A	H
		5758.385	50.43	-23.57	74	39.84	33.19	9.3	31.9	154	41	P	H
		5726.57	42.24	-11.76	54	31.9	33.04	9.28	31.98	154	41	A	H
		5457.52	55.33	-18.67	74	46.43	32.09	9.09	32.28	154	10	P	V
		5469.52	47.97	-6.03	54	39.04	32.09	9.12	32.28	154	10	A	V
	*	5550	107.44	-	-	98.18	32.32	9.17	32.23	154	10	P	V
	*	5550	98.27	-	-	89.01	32.32	9.17	32.23	154	10	A	V
		5753.66	50.79	-23.21	74	40.24	33.19	9.3	31.94	154	10	P	V
		5725.31	44.04	-9.96	54	33.7	33.04	9.28	31.98	154	10	A	V



802.11n HT40 CH 134 5670MHz		5468.3	50.25	-23.75	74	41.32	32.09	9.12	32.28	150	288	P	H
		5468.65	42.22	-11.78	54	33.29	32.09	9.12	32.28	150	288	A	H
	*	5670	108.58	-	-	98.56	32.82	9.25	32.05	150	288	P	H
	*	5670	99.09	-	-	89.07	32.82	9.25	32.05	150	288	A	H
		5729.125	59.35	-14.65	74	49.01	33.04	9.28	31.98	150	288	P	H
		5725	50.69	-3.31	54	40.35	33.04	9.28	31.98	150	288	A	H
		5374.5	48.48	-25.52	74	39.62	32.07	9.02	32.23	188	313	P	V
		5470	41.84	-12.16	54	32.91	32.09	9.12	32.28	188	313	A	V
	*	5670	108	-	-	97.98	32.82	9.25	32.05	188	313	P	V
	*	5670	98.07	-	-	88.05	32.82	9.25	32.05	188	313	A	V
		5741.55	57.56	-16.44	74	47.09	33.11	9.3	31.94	188	313	P	V
		5725	50.43	-3.57	54	40.09	33.04	9.28	31.98	188	313	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	48.16	-25.84	74	56.07	39.88	11.87	59.66	250	0	P	H
		16530	47.57	-26.43	74	55.6	38.71	14.44	61.18	150	0	P	H
		11020	49.13	-24.87	74	57.04	39.88	11.87	59.66	250	0	P	V
		16530	48.23	-25.77	74	56.26	38.71	14.44	61.18	150	0	P	V
802.11n HT40 CH 110 5550MHz		11100	48.63	-25.37	74	56.6	39.78	11.9	59.65	250	0	P	H
		16650	53.97	-20.03	74	61.26	39.1	14.5	60.89	150	0	P	H
		16650	50.83	-3.17	54	58.12	39.1	14.5	60.89	243	343	A	H
		11100	47.92	-26.08	74	55.89	39.78	11.9	59.65	250	0	P	V
		16650	54.94	-19.06	74	62.23	39.1	14.5	60.89	150	0	P	V
		16650	50.66	-3.34	54	57.95	39.1	14.5	60.89	123	120	A	V
802.11n HT40 CH 134 5670MHz		11340	48.23	-25.77	74	56.38	39.5	11.99	59.64	250	0	P	H
		17010	48.94	-25.06	74	53.99	40.3	14.72	60.07	150	0	P	H
		11340	49.09	-24.91	74	57.24	39.5	11.99	59.64	250	0	P	V
		17010	49.87	-24.13	74	54.92	40.3	14.72	60.07	150	0	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 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5458.72	57.72	-16.28	74	48.82	32.09	9.09	32.28	150	285	P	H
		5464	50.33	-3.67	54	41.43	32.09	9.09	32.28	150	285	A	H
	*	5530	97.09	-	-	88.01	32.17	9.14	32.23	150	285	P	H
	*	5530	88.3	-	-	79.22	32.17	9.14	32.23	150	285	A	H
		5751.14	50.29	-23.71	74	39.82	33.11	9.3	31.94	150	285	P	H
		5751.77	43.66	-10.34	54	33.11	33.19	9.3	31.94	150	285	A	H
		5465.68	58.44	-15.56	74	49.51	32.09	9.12	32.28	184	34	P	V
		5468.08	52.73	-1.27	54	43.8	32.09	9.12	32.28	184	34	A	V
	*	5530	100.35	-	-	91.27	32.17	9.14	32.23	184	34	P	V
	*	5530	90.98	-	-	81.9	32.17	9.14	32.23	184	34	A	V
		5760.59	50.11	-23.89	74	39.52	33.19	9.3	31.9	184	34	P	V
		5727.515	43.48	-10.52	54	33.14	33.04	9.28	31.98	184	34	A	V
802.11ac VHT80 CH 122 5610MHz		5459.68	50.7	-23.3	74	41.8	32.09	9.09	32.28	219	315	P	H
		5466.16	41.62	-12.38	54	32.69	32.09	9.12	32.28	219	315	A	H
	*	5610	103.31	-	-	93.7	32.53	9.2	32.12	219	315	P	H
	*	5610	91.05	-	-	81.44	32.53	9.2	32.12	219	315	A	H
		5735.6	58.26	-15.74	74	47.81	33.11	9.28	31.94	219	315	P	H
		5726.325	48.59	-5.41	54	38.25	33.04	9.28	31.98	219	315	A	H
		5465.2	53.18	-20.82	74	44.28	32.09	9.09	32.28	166	22	P	V
		5464.72	44.47	-9.53	54	35.57	32.09	9.09	32.28	166	22	A	V
	*	5610	102.58	-	-	92.97	32.53	9.2	32.12	166	22	P	V
	*	5610	92.97	-	-	83.36	32.53	9.2	32.12	166	22	A	V
		5729.825	61.18	-12.82	74	50.84	33.04	9.28	31.98	166	22	P	V
		5726.15	49.89	-4.11	54	39.55	33.04	9.28	31.98	166	22	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	48.9	-25.1	74	56.85	39.82	11.89	59.66	250	0	P	H
		16590	47.15	-26.85	74	54.84	38.88	14.48	61.05	150	0	P	H
		11060	47.98	-26.02	74	55.93	39.82	11.89	59.66	250	0	P	V
		16590	48.4	-25.6	74	56.09	38.88	14.48	61.05	150	0	P	V
802.11ac VHT80 CH 122 5610MHz		11440	48.59	-25.41	74	56.81	39.38	12.03	59.63	250	0	P	H
		17160	51.64	-22.36	74	55.71	41.23	14.79	60.09	150	0	P	H
		17160	44.25	-9.75	54	48.32	41.23	14.79	60.09	150	0	A	H
		11440	48.58	-25.42	74	56.47	39.71	12.03	59.63	250	0	P	V
		17160	50.9	-23.1	74	56.3	39.9	14.79	60.09	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	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)
802.11a CH 144 5720MHz		11440	48.59	-25.41	74	56.81	39.38	12.03	59.63	250	0	P	H
		17160	51.64	-22.36	74	55.71	41.23	14.79	60.09	150	0	P	H
		17160	44.25	-9.75	54	48.32	41.23	14.79	60.09	150	0	A	H
		11440	48.58	-25.42	74	56.8	39.38	12.03	59.63	250	0	P	V
		17160	50.9	-23.1	74	54.97	41.23	14.79	60.09	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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		11440	47.88	-26.12	74	56.1	39.38	12.03	59.63	250	0	P	H
HT20		17160	48.07	-25.93	74	52.14	41.23	14.79	60.09	150	0	P	H
CH 144		11440	47.72	-26.28	74	55.94	39.38	12.03	59.63	250	0	P	V
5720MHz		17160	48.61	-25.39	74	52.68	41.23	14.79	60.09	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	47.66	-26.34	74	55.88	39.38	12.03	59.63	250	0	P	H
		17160	48.51	-25.49	74	52.58	41.23	14.79	60.09	150	0	P	H
		11440	47.42	-26.58	74	55.64	39.38	12.03	59.63	250	0	P	V
		17160	48.24	-25.76	74	52.31	41.23	14.79	60.09	150	0	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT40 (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)
802.11n		11420	47.91	-26.09	74	56.13	39.4	12.02	59.64	250	0	P	H
HT40		17130	49.16	-24.84	74	53.42	41.03	14.79	60.08	150	0	P	H
CH 142		11420	47.66	-26.34	74	55.88	39.4	12.02	59.64	250	0	P	V
5710MHz		17130	48.83	-25.17	74	53.09	41.03	14.79	60.08	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		11420	47.24	-26.76	74	55.46	39.4	12.02	59.64	250	0	P	H
		17130	49.47	-24.53	74	53.73	41.03	14.79	60.08	150	0	P	H
		11420	46.98	-27.02	74	55.2	39.4	12.02	59.64	250	0	P	V
		17130	49.98	-24.02	74	54.24	41.03	14.79	60.08	150	0	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
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		11380	47.82	-26.18	74	56.02	39.44	12	59.64	250	0	P	H
VHT80		17070	48.69	-25.31	74	53.42	40.61	14.74	60.08	150	0	P	H
CH 138		11380	47.62	-26.38	74	55.82	39.44	12	59.64	250	0	P	V
5690MHz		17070	48.85	-25.15	74	53.58	40.61	14.74	60.08	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11380	47.67	-26.33	74	55.87	39.44	12	59.64	250	0	P	H
VHT80		17070	50.5	-23.5	74	55.23	40.61	14.74	60.08	150	0	P	H
CH 138		11380	47.39	-26.61	74	55.59	39.44	12	59.64	250	0	P	V
5690MHz		17070	48.77	-25.23	74	53.5	40.61	14.74	60.08	150	0	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Verify data

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.16	52.61	-21.39	74	43.89	32.03	8.77	32.08	150	73	P	H
		5150	43.75	-10.25	54	35.03	32.03	8.77	32.08	150	73	A	H
	*	5180	104.23	-	-	95.48	32.04	8.81	32.1	150	73	P	H
	*	5180	95.61	-	-	86.86	32.04	8.81	32.1	150	73	A	H
		5149.5	56.44	-17.56	74	47.72	32.03	8.77	32.08	233	145	P	V
		5150	46.12	-7.88	54	37.4	32.03	8.77	32.08	233	145	A	V
	*	5180	107.29	-	-	98.54	32.04	8.81	32.1	233	145	P	V
	*	5180	98	-	-	89.25	32.04	8.81	32.1	233	145	A	V

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	47.93	-26.07	74	58.36	38.79	11.63	60.85	152	260	P	H
		15540	49.27	-24.73	74	58.6	38.92	13.9	62.15	189	238	P	H
		10360	48.11	-25.89	74	58.54	38.79	11.63	60.85	152	260	P	V
		15540	51.61	-22.39	74	60.94	38.92	13.9	62.15	189	238	P	V
		15540	45.93	-8.07	54	55.26	38.92	13.9	62.15	189	238	A	V
Remark	This mode is tested on Antenna 1 from worst mode of Antenna 2 for Band 1 single TX mode												



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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 60 5300MHz		5142.1	49.65	-24.35	74	40.91	32.03	8.77	32.06	163	78	P	H
		5144.55	41.24	-12.76	54	32.52	32.03	8.77	32.08	163	78	A	H
	*	5300	105.41	-	-	96.6	32.06	8.93	32.18	163	78	P	H
	*	5300	95.54	-	-	86.73	32.06	8.93	32.18	163	78	A	H
		5358	51.74	-22.26	74	42.87	32.07	9.02	32.22	163	78	P	H
		5351.52	43.1	-10.9	54	34.23	32.07	9.02	32.22	163	78	A	H
		5138.25	51.03	-22.97	74	42.29	32.03	8.77	32.06	150	317	P	V
		5144.2	43.28	-10.72	54	34.56	32.03	8.77	32.08	150	317	A	V
	*	5300	108.32	-	-	99.51	32.06	8.93	32.18	150	317	P	V
	*	5300	97.75	-	-	88.94	32.06	8.93	32.18	150	317	A	V
		5355.36	53.88	-20.12	74	45.01	32.07	9.02	32.22	150	317	P	V
		5350.56	44.93	-9.07	54	36.06	32.07	9.02	32.22	150	317	A	V

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 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)
802.11a CH 60 5300MHz		10600	49.02	-24.98	74	58.72	39.11	11.71	60.52	250	0	P	H
		15900	51.2	-22.8	74	61.38	38.05	14.09	62.32	150	0	P	H
		15900	47.65	-6.35	54	57.83	38.05	14.09	62.32	150	0	A	H
		10600	48.87	-25.13	74	58.57	39.11	11.71	60.52	250	0	P	V
		15900	50.49	-23.51	74	60.67	38.05	14.09	62.32	150	0	P	V
Remark	This mode is tested on Antenna 2 from worst mode of Antenna 1 for Band 2 single TX mode												



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 116 5580MHz		5417.44	51.12	-22.88	74	42.23	32.08	9.06	32.25	250	293	P	H
		5424.16	43.57	-10.43	54	34.68	32.08	9.06	32.25	250	293	A	H
	*	5580	106.28	-	-	96.88	32.39	9.17	32.16	250	293	P	H
	*	5580	98.26	-	-	88.86	32.39	9.17	32.16	250	293	A	H
		5737.28	53.8	-20.2	74	43.35	33.11	9.28	31.94	250	293	P	H
		5738.54	45.78	-8.22	54	35.31	33.11	9.3	31.94	250	293	A	H
		5414.8	51.81	-22.19	74	42.92	32.08	9.06	32.25	188	329	P	V
		5424.16	42.78	-11.22	54	33.89	32.08	9.06	32.25	188	329	A	V
	*	5580	109.13	-	-	99.73	32.39	9.17	32.16	188	329	P	V
	*	5580	99.89	-	-	90.49	32.39	9.17	32.16	188	329	A	V
		5731.925	55.9	-18.1	74	45.52	33.04	9.28	31.94	188	329	P	V
		5743.895	45.39	-8.61	54	34.92	33.11	9.3	31.94	188	329	A	V

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 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 116 5580MHz		11160	49.78	-24.22	74	57.8	39.7	11.93	59.65	170	200	P	H
		16740	56.07	-17.93	74	62.82	39.37	14.57	60.69	156	350	P	H
		16740	50.12	-3.88	54	56.87	39.37	14.57	60.69	156	350	A	H
		11160	50.02	-23.98	74	58.04	39.7	11.93	59.65	170	200	P	V
		16740	56.41	-17.59	74	63.16	39.37	14.57	60.69	156	350	P	V
		16740	48.4	-5.6	54	55.15	39.37	14.57	60.69	156	350	A	V
Remark	This mode is tested on Antenna 1 from worst mode of Antenna 2 for Band 3 single TX mode												



Adapter 2 verify worst mode of Adapter 1

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 106 5530MHz		5468.08	56.69	-17.31	74	47.76	32.09	9.12	32.28	179	78	P	H
		5468.8	52.14	-1.86	54	43.21	32.09	9.12	32.28	179	78	A	H
	*	5530	99.53			90.45	32.17	9.14	32.23	179	78	P	H
	*	5530	90.42			81.34	32.17	9.14	32.23	179	78	A	H
		5748.305	50.31	-23.69	74	39.84	33.11	9.3	31.94	179	78	P	H
		5747.36	44.04	-9.96	54	33.57	33.11	9.3	31.94	179	78	A	H
		5464.96	59.35	-14.65	74	50.45	32.09	9.09	32.28	250	137	P	V
		5460.88	52.12	-1.88	54	43.22	32.09	9.09	32.28	250	137	A	V
	*	5530	99.08			90	32.17	9.14	32.23	250	137	P	V
	*	5530	90.21			81.13	32.17	9.14	32.23	250	137	A	V
		5745.47	50.79	-23.21	74	40.32	33.11	9.3	31.94	250	137	P	V
		5725.625	43.61	-10.39	54	33.27	33.04	9.28	31.98	250	137	A	V

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac		11060	48.85	-25.15	74	56.8	39.82	11.89	59.66	250	0	P	H
VHT80		16590	46.74	-27.26	74	54.43	38.88	14.48	61.05	150	0	P	H
CH 106		11060	47.95	-26.05	74	55.9	39.82	11.89	59.66	250	0	P	V
5530MHz		16590	47.08	-26.92	74	54.77	38.88	14.48	61.05	150	0	P	V
Remark	This mode is tested with Adapter 2 from worst mode of Adapter 1												



Emission below 1GHz

WIFI 802.11acVHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		31.94	26.77	-13.23	40	32.32	25.86	0.59	32	-	-	P	H
		111.48	23.77	-19.73	43.5	35.81	18.57	1.09	31.7	-	-	P	H
		161.92	26.68	-16.82	43.5	39.56	17.28	1.32	31.48	-	-	P	H
		246.31	27.04	-18.96	46	38.96	17.82	1.65	31.39	-	-	P	H
		405.39	32.49	-13.51	46	35.72	25.87	2.14	31.24	-	-	P	H
		949.56	33.7	-12.3	46	32.11	29.4	3.39	31.2	134	124	P	H
		30	30.61	-9.39	40	35.35	26.7	0.56	32	152	240	P	V
		62.01	26.52	-13.48	40	44.77	12.84	0.81	31.9	-	-	P	V
		285.11	23.96	-22.04	46	34.78	18.78	1.77	31.37	-	-	P	V
		389.87	29.97	-16.03	46	34.23	24.9	2.09	31.25	-	-	P	V
		695.42	31.53	-14.47	46	32.46	27.47	2.85	31.25	-	-	P	V
		998.06	34.32	-19.68	54	31.72	30.36	3.48	31.24	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

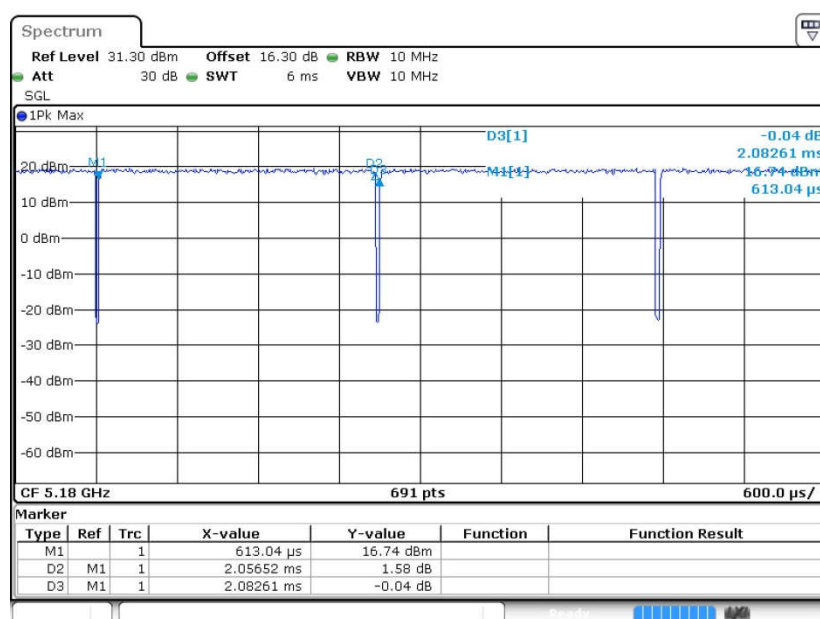
= -10.46(dB)

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

Appendix C. Duty Cycle Plots

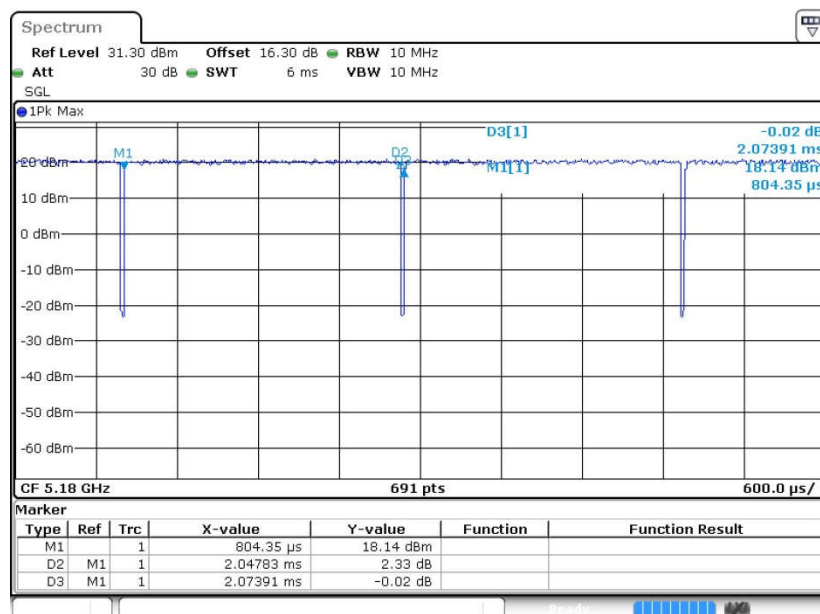
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1	802.11a	98.74	-	-	10Hz
2	802.11a	98.74	-	-	10Hz
1+2	802.11n HT20	97.43	0.987	1.013	3KHz
1+2	802.11n HT40	97.30	0.939	1.065	3KHz
1+2	802.11ac VHT20	97.43	0.987	1.013	3KHz
1+2	802.11ac VHT40	94.99	0.494	2.024	3KHz
1+2	802.11ac VHT80	90.77	0.257	3.891	10KHz

802.11a for Ant.1

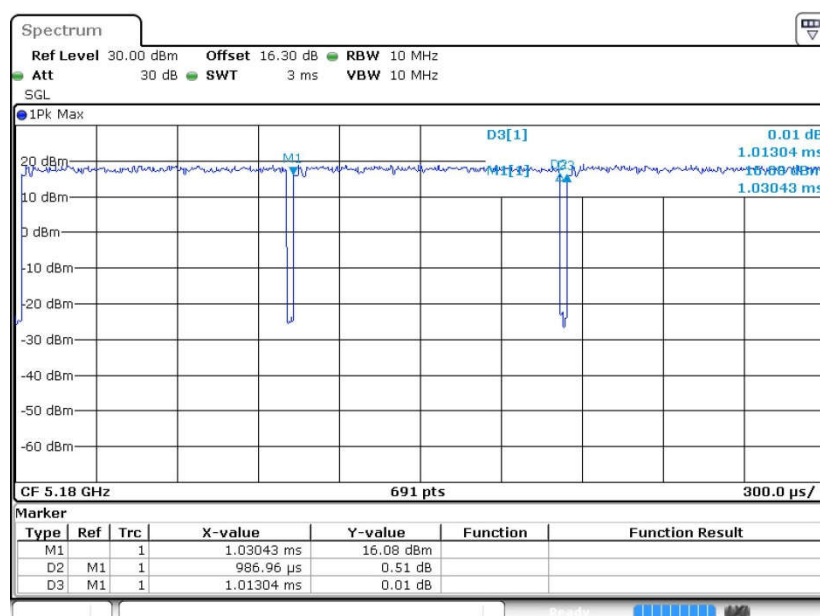




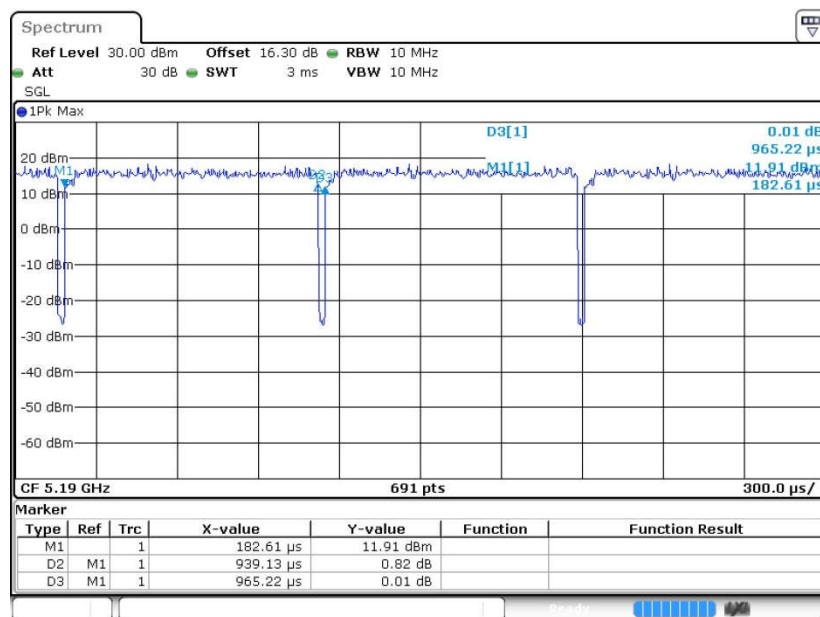
802.11a for Ant.2



802.11n HT20 for Ant.1+2

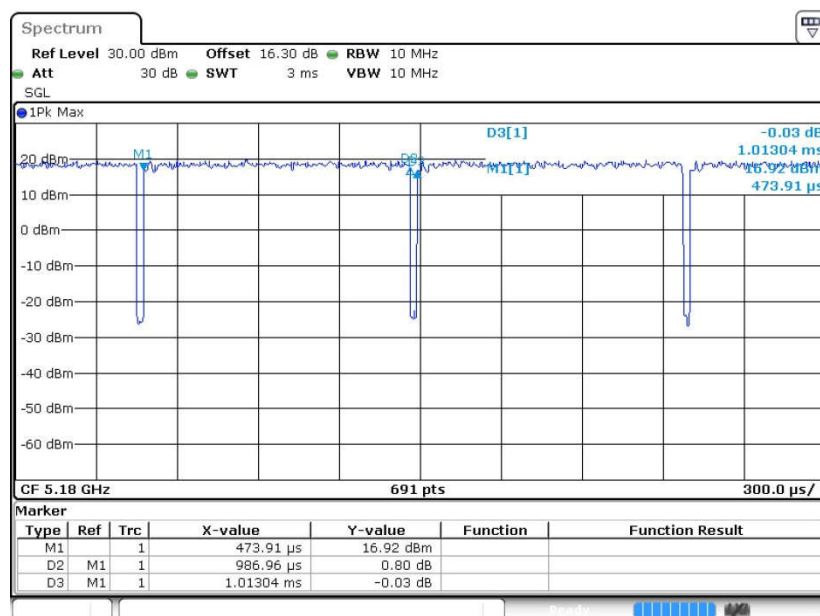


802.11n HT40 for Ant.1+2



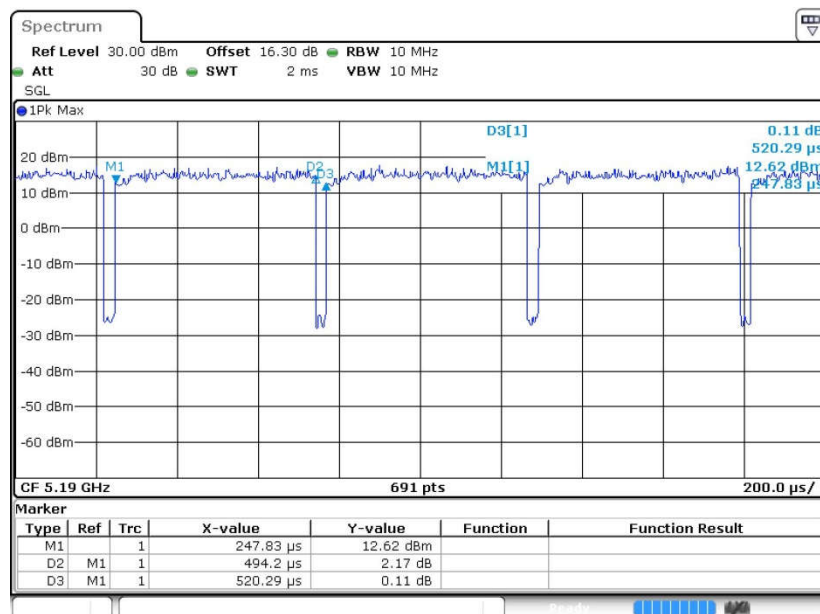
Date: 10 MAY 2017 17:57:35

802.11ac VHT20 for Ant.1+2





802.11ac VHT40 for Ant.1+2



802.11ac VHT80 for Ant.1+2

