FCC RF Test Report

APPLICANT	**:**	**Huawei Technologies Co., Ltd.**
EQUIPMENT	**:**	**Smartphone**
BRAND NAME	**:**	**HUAWEI**
MODEL NAME	**:**	**LYA-L29, LYA-L09**
FCC ID	**:**	**QISLYA-LX9**
STANDARD	**:**	**FCC Part 15 Subpart E §15.407**
CLASSIFICATION	**:**	**(NII) Unlicensed National Information Infrastructure**

The product was received on Aug. 02, 2018 and testing was completed on Sep. 07, 2018. 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.

Eric Shih

NVLAP TESTING
NVLAP LAB CODE 600156-0

Approved by: Eric Shih / Manager

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TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR880204A	Rev. 01	Initial issue of report	Sep. 14, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 2.00 dB at 5436.160 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.40 dB at 0.680 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.2 Manufacturer

Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smartphone
Brand Name	HUAWEI
Model Name	LYA-L29, LYA-L09
FCC ID	QISLYA-LX9
EUT supports Radios application	GSM/WCDMA/HSPA/LTE/NFC/GNSS/WPC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 Bluetooth BR/EDR/LE
HW Version	HL2LAYAM
SW Version	9.0.0.82(C432E82R1P7)
EUT Stage	Production Unit

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>** **MIMO <Ant. 1+2>** 802.11a : 19.17 dBm / 0.0826 W 802.11n HT20 : 18.23 dBm / 0.0665 W 802.11n HT40 : 18.16 dBm / 0.0655 W 802.11ac VHT20 : 18.26 dBm / 0.0670 W 802.11ac VHT40 : 18.22 dBm / 0.0664 W 802.11ac VHT80 : 10.77 dBm / 0.0119 W 802.11ac VHT160 : 10.58 dBm / 0.0114 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 1+2>** 802.11a : 19.15 dBm / 0.0822 W 802.11n HT20 : 18.20 dBm / 0.0661 W 802.11n HT40 : 18.20 dBm / 0.0661 W 802.11ac VHT20 : 18.18 dBm / 0.0658 W 802.11ac VHT40 : 18.21 dBm / 0.0662 W 802.11ac VHT80 : 10.88 dBm / 0.0122 W **<5500 MHz ~ 5720 MHz >** **MIMO <Ant. 1+2>** 802.11a : 19.32 dBm / 0.0855 W 802.11n HT20 : 18.40 dBm / 0.0692 W 802.11n HT40 : 16.17 dBm / 0.0414 W 802.11ac VHT20 : 18.33 dBm / 0.0681 W 802.11ac VHT40 : 16.15 dBm / 0.0412 W 802.11ac VHT80 : 11.05 dBm / 0.0127 W 802.11ac VHT160 : 10.61 dBm / 0.0115 W
99% Occupied Bandwidth	**<MIMO Ant. 1>** 802.11a : 18.73 MHz 802.11n HT20 : 18.98 MHz 802.11n HT40 : 36.96 MHz 802.11ac VHT20 : 18.73 MHz 802.11ac VHT40 : 36.86 MHz 802.11ac VHT80 : 75.28 MHz 802.11ac VHT160 : 154.89 MHz **<MIMO Ant. 2>** 802.11a : 18.58 MHz 802.11n HT20 : 18.78 MHz 802.11n HT40 : 36.76 MHz 802.11ac VHT20 : 18.58 MHz 802.11ac VHT40 : 36.76 MHz 802.11ac VHT80 : 75.16 MHz 802.11ac VHT160 : 154.55 MHz

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>Antenna Gain / Gain</td><td><5150 MHz ~ 5250 MHz>
<Ant. 1> : PIFA Antenna with gain -2.36 dBi
<Ant. 2> : PIFA Antenna with gain -3.10 dBi
<5250 MHz ~ 5350 MHz>
<Ant. 1> : PIFA Antenna with gain -2.19 dBi
<Ant. 2> : PIFA Antenna with gain -2.25 dBi
<5470 MHz ~ 5725 MHz>
<Ant. 1> : PIFA Antenna with gain 1.49 dBi
<Ant. 2> : PIFA Antenna with gain -3.40 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Function Description</td><td><table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr></table></td></tr>
</table>

Accessories Information				
AC Adapter 1	Brand Name	Huawei Technologies Co., Ltd.	Model Name	HW-100400A00
	Manufacturer	Huawei Technologies Co., Ltd.		
	Power Rating	I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V⎓2A or 9V⎓2A or 10V⎓4A		
AC Adapter 2	Brand Name	Huawei Technologies Co., Ltd.	Model Name	HW-100400U00
	Manufacturer	Huawei Technologies Co., Ltd.		
	Power Rating	I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V⎓2A or 9V⎓2A or 10V⎓4A		
AC Adapter 3	Brand Name	Huawei Technologies Co., Ltd.	Model Name	HW-100400E00
	Manufacturer	Huawei Technologies Co., Ltd.		
	Power Rating	I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V⎓2A or 9V⎓2A or 10V⎓4A		
AC Adapter 4	Brand Name	Huawei Technologies Co., Ltd.	Model Name	HW-100400B00
	Manufacturer	Huawei Technologies Co., Ltd.		
	Power Rating	I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V⎓2A or 9V⎓2A or 10V⎓4A		
Battery 1	Brand Name	Huawei Technologies Co., Ltd.	Model Name	HB486486ECW
	Power Rating	Nominal Voltage: ⎓+3.82Vdc Charging Voltage: ⎓+4.4V Rated Capacity: 4100mAh	Type	Li-ion Polymer
Battery 2	Brand Name	Huawei Technologies Co., Ltd.	Model Name	HB486486ECW
	Power Rating	Nominal Voltage: ⎓+3.82Vdc Charging Voltage: ⎓+4.4V Rated Capacity: 4100mAh	Type	Li-ion Polymer
Battery 3	Brand Name	Huawei Technologies Co., Ltd.	Model Name	HB486486ECW
	Power Rating	Nominal Voltage: ⎓+3.82Vdc Charging Voltage: ⎓+4.4V Rated Capacity: 4100mAh	Type	Li-ion Polymer
Earphone 1	Brand Name	Jiangxi Lianchuang Hongsheng Electronic Co., Ltd.		
	Model Name	MEND1632B729003	Number	22040325
Earphone 2	Brand Name	GoerTek Inc.		
	Model Name	Windy-S	Number	22040325
Earphone 3	Brand Name	Boluo County Quancheng Electronic Co., Ltd.		
	Model Name	1331-3301-6001-TC-088	Number	22040325
Earphone 4	Brand Name	Boluo County Quancheng Electronic Co., Ltd.		
	Model Name	630276	Number	N/A

1.5 Modification of EUT

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

1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. is CN5018 and CN5019

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.**		**FCC Test Firm Registration No.**
	TH01-SZ	CO01-SZ	337463

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

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 Test Firm Registration No.**
	03CH01-SZ	577730

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

1.7 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

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

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210	50@	5250

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	114@	5570
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
	112	5560		

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

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.
3. The above Frequency and Channel in "@" were 802.11ac VHT160.

2.2 Test Mode

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

MIMO Mode

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
802.11ac VHT160	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + wireless charger + Earphone + SIM 1 Mode 2 : GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + Smart phone (USB Cable Charging from Adapter) charger to EUT + Earphone + SIM 2 Mode 3 : GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + USB Cable Charging from Adapter + SIM 2
Remark: **1.** The worst case of conducted emission is mode 2; only the test data of it was reported. **2.** For Radiated Test Cases, The tests were performed with USB Cable 1.	

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

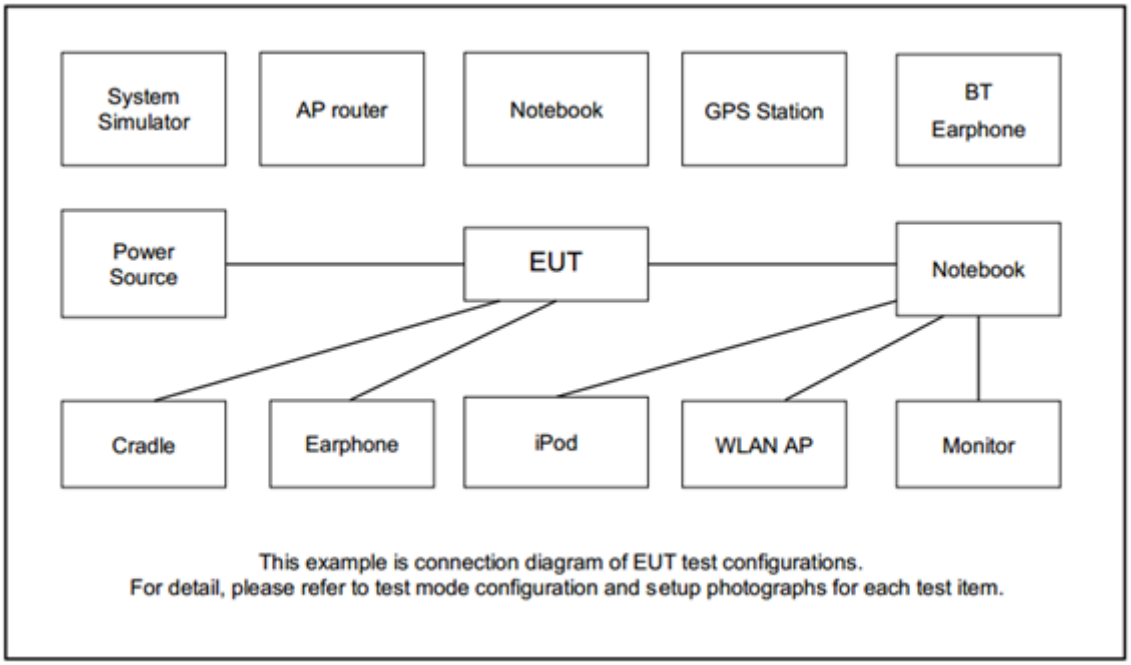
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	122
H	High	-	-	-

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT160	802.11ac VHT160	802.11ac VHT160
L	Low	-	-	114
M	Middle	50	-	-
H	High	-	-	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
3.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8 m
4.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	N/A	MicroSD HC	FCC DoC	N/A	N/A
6.	wireless charger	samsuang	EP-NG920	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “adb” was installed in EUT which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

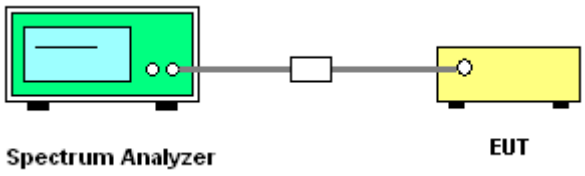
3.1.2 Measuring Instruments

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 v02r01. 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) ≥ 3 * RBW.
8. Measure and record the results in the test report.

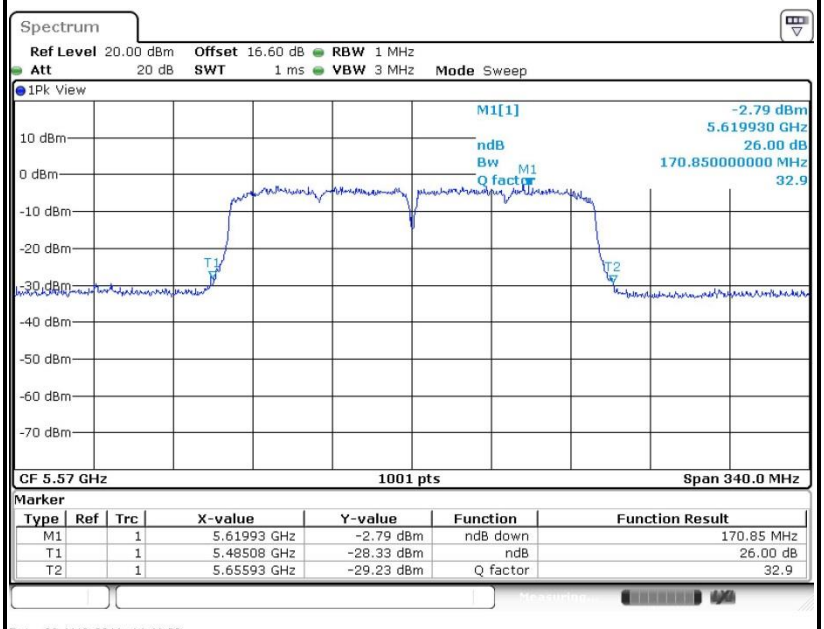
3.1.4 Test Setup



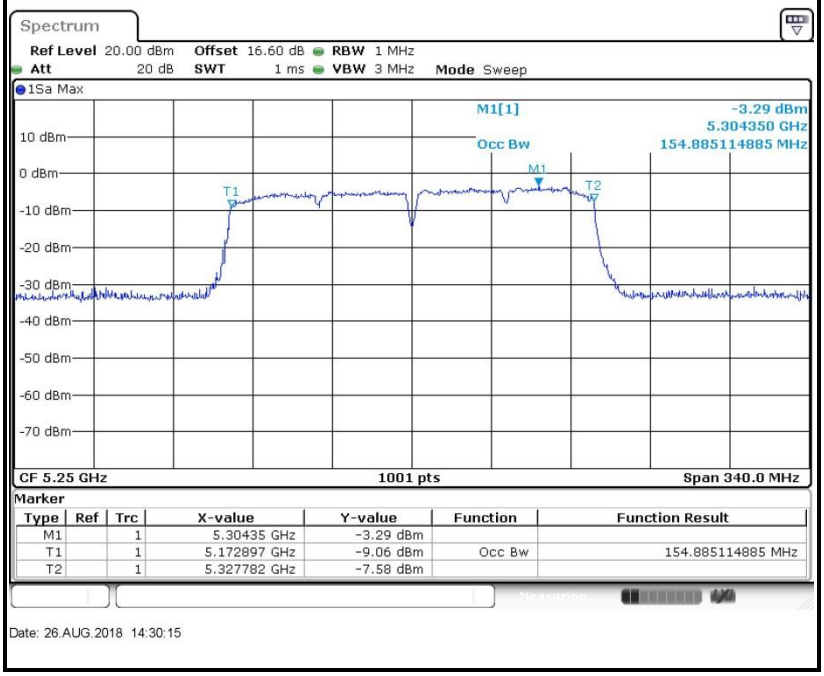
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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 5.25–5.725 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.

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.

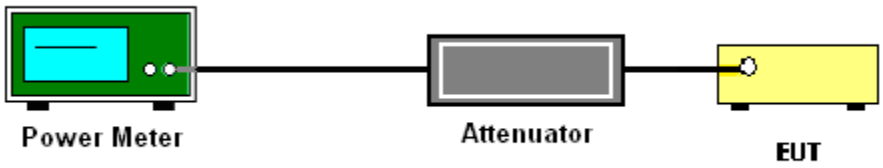
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<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 5.25–5.725 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 v02r01. Section F) Maximum power spectral density.

 # Method SA-2 #

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

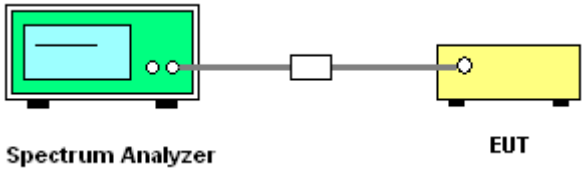
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), 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.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): 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.

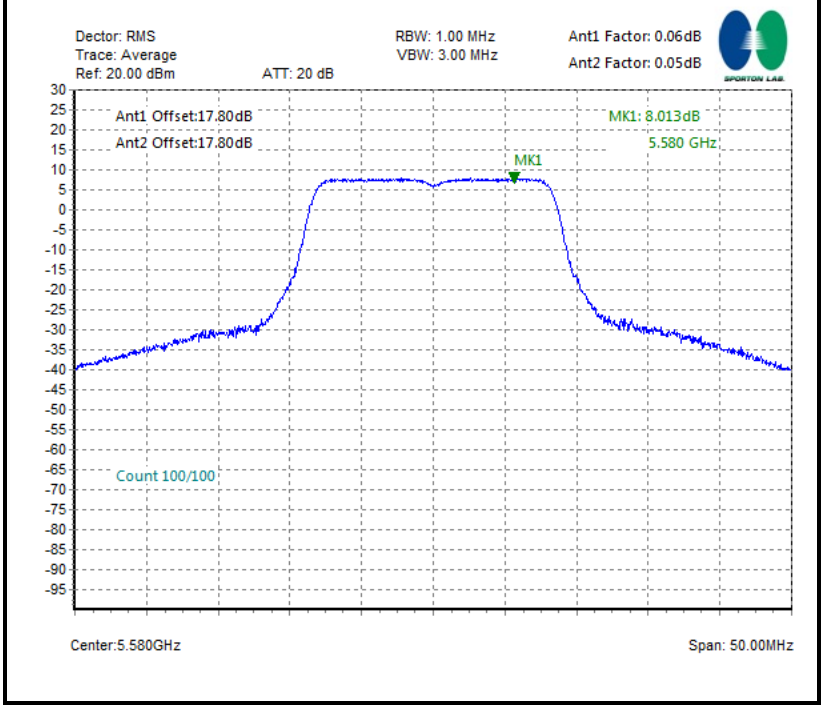
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

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

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

where

EIRP is the equivalent isotropically radiated power, in dBm

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

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

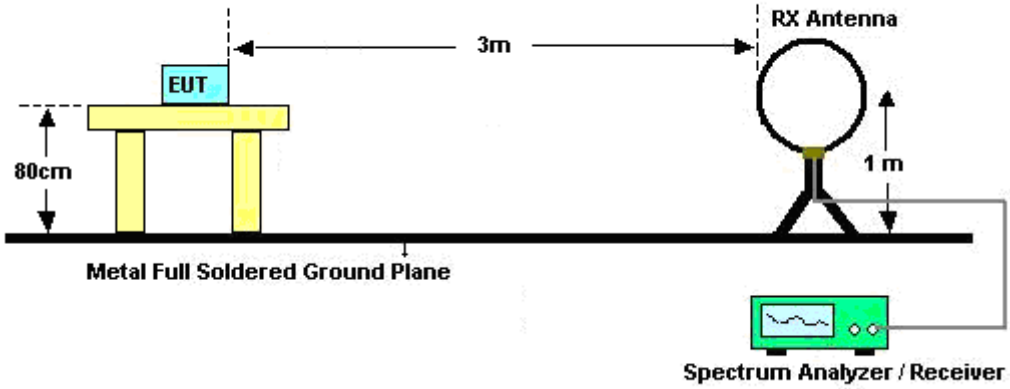
   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

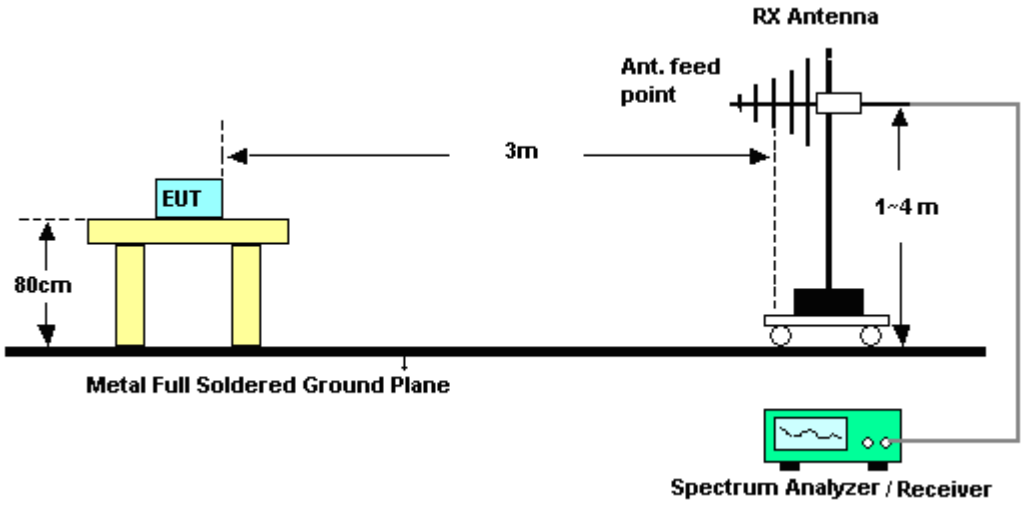
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting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

3.4.4 Test Setup

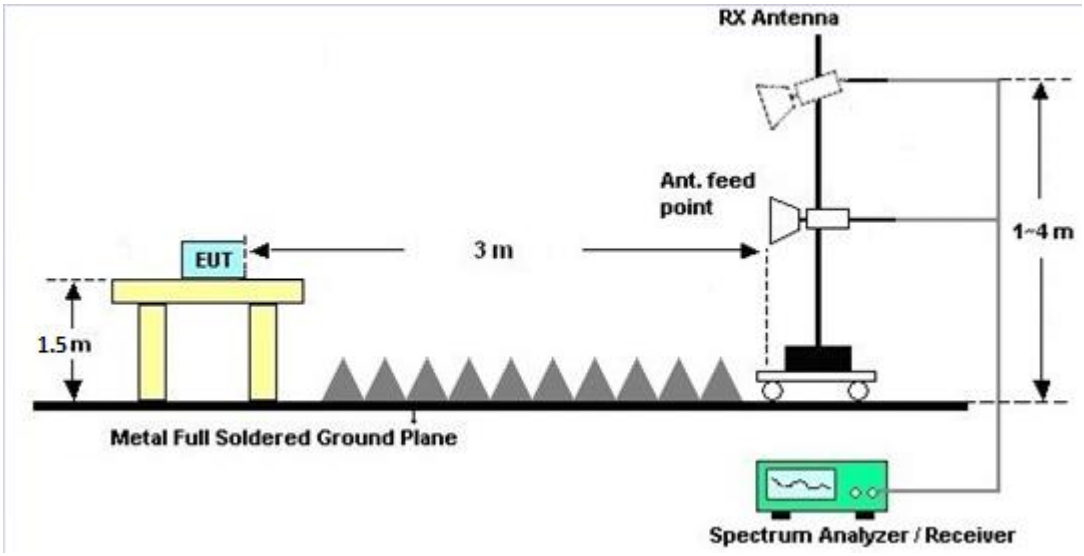
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated 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.

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

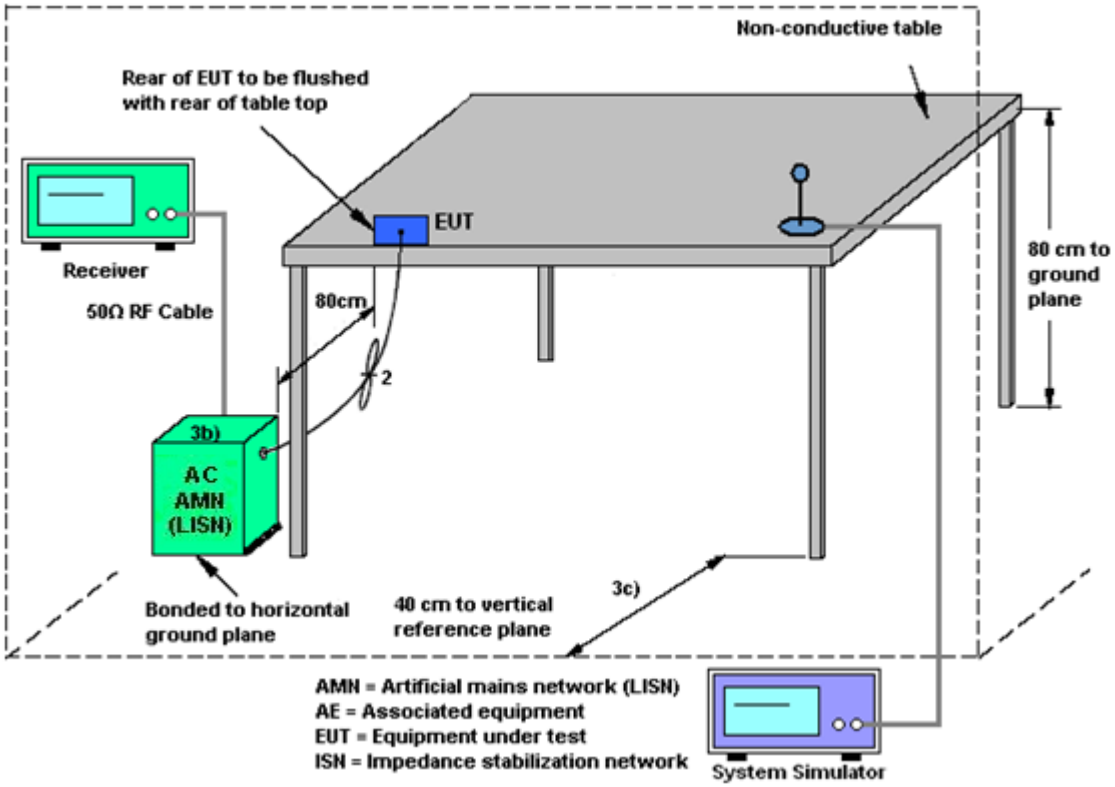
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

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

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

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

The EUT supports CDD mode.

For power, the directional gain GANT 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.

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-2.36	-3.10	-2.36	-2.36	0.00	0.00
Band II	-2.19	-2.25	-2.19	-2.19	0.00	0.00
Band III	1.49	-3.40	1.49	1.49	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	10Hz~40GHz	Apr. 19, 2018	Aug. 08, 2018 ~ Sep. 07, 2018	Apr. 18, 2019	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 26, 2017	Aug. 08, 2018 ~ Sep. 07, 2018	Dec. 25, 2018	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 26, 2017	Aug. 08, 2018 ~ Sep. 07, 2018	Dec. 25, 2018	Conducted (TH01-SZ)
DC Power Supply	GWINSTEK	AnritsuGPS-3030D	EM882636	Max 30V	Apr. 19, 2018	Aug. 08, 2018 ~ Sep. 07, 2018	Apr. 18, 2019	Conducted (TH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 26, 2017	Aug. 16, 2018	Dec. 25, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Dec. 26, 2017	Aug. 16, 2018	Dec. 25, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103892	9kHz~30MHz	Nov. 01, 2017	Aug. 16, 2018	Oct. 31, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 18, 2018	Aug. 16, 2018	Jul. 17, 2019	Conduction (CO01-SZ)
Pulse Limiter RF Cable	SCHWARZBECK MESS-ELEKTRONIK	VTSD9561-FN	9561-FN00294	150kHz~30MHz	Oct. 18, 2017	Aug. 16, 2018	Oct. 17, 2018	Conduction (CO01-SZ)
Radio communication analyzer	Anritsu	MT8820C	6201432833	GSM/WCDMA/LTE	Dec. 28, 2017	Aug. 16, 2018	Dec. 27, 2019	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Apr. 19, 2018	Aug. 16, 2018 ~ Aug. 28, 2018	Apr.18, 2019	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2018	Aug. 16, 2018 ~ Aug. 28, 2018	May13, 2019	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Apr. 19, 2018	Aug. 16, 2018 ~ Aug. 28, 2018	Apr. 18, 2019	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jul. 28, 2018	Aug. 16, 2018 ~ Aug. 28, 2018	Jul. 27, 2019	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2018	Aug. 16, 2018 ~ Aug. 28, 2018	Mar. 29, 2019	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 19, 2018	Aug. 16, 2018 ~ Aug. 28, 2018	Apr.18, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1707137	1GHz~18GHz	Oct. 19, 2017	Aug. 16, 2018 ~ Aug. 28, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Oct. 19, 2017	Aug. 16, 2018 ~ Aug. 28, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 30, 2018	Aug. 16, 2018 ~ Aug. 28, 2018	Jul. 30, 2019	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Aug. 16, 2018 ~ Aug. 28, 2018	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 16, 2018 ~ Aug. 28, 2018	NCR	Radiation (03CH01-SZ)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.6**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.8**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shuai Qian	Temperature:	21~25	°C
Test Date:	2018/8/8~2018/9/7	Relative Humidity:	51~54	%

Report Number : FR880204A

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	2	36	5180	17.93	17.53	21.98	21.53	-		22.44			
11a	6Mbps	2	44	5220	17.93	18.08	22.03	25.67	-		22.54			
11a	6Mbps	2	48	5240	18.28	18.08	22.03	23.48	-		22.57			
HT20	MCS0	2	36	5180	18.48	18.38	22.23	21.73	-		22.64			
HT20	MCS0	2	44	5220	18.63	18.53	22.28	23.13	-		22.68			
HT20	MCS0	2	48	5240	18.48	18.48	22.23	22.18	-		22.67			
HT40	MCS0	2	38	5190	36.66	36.36	43.16	42.35	-		23.01			
HT40	MCS0	2	46	5230	36.96	36.66	42.89	42.53	-		23.01			
VHT20	MCS0	2	36	5180	18.38	18.28	22.23	21.78	-		22.62			
VHT20	MCS0	2	44	5220	18.63	18.53	22.28	22.13	-		22.68			
VHT20	MCS0	2	48	5240	18.53	18.58	22.43	22.48	-		22.68			
VHT40	MCS0	2	38	5190	36.46	36.36	42.80	42.26	-		23.01			
VHT40	MCS0	2	46	5230	36.56	36.76	42.89	42.53	-		23.01			
VHT80	MCS0	2	42	5210	75.28	75.04	84.40	83.44	-		23.01			
VHT160	MCS0	2	50	5250	154.89	154.21	170.17	167.45	-		23.01			

Report Number : FR880204A

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	2	36	5180	0.06	0.05	9.89	9.68	12.80	24.00		-2.36			Pass
11a	6Mbps	2	44	5220	0.06	0.05	16.48	15.80	19.17	24.00		-2.36			Pass
11a	6Mbps	2	48	5240	0.06	0.05	16.38	15.79	19.11	24.00		-2.36			Pass
HT20	MCS0	2	36	5180	0.13	0.14	9.91	9.66	12.80	24.00		-2.36			Pass
HT20	MCS0	2	44	5220	0.13	0.14	15.51	14.87	18.22	24.00		-2.36			Pass
HT20	MCS0	2	48	5240	0.13	0.14	15.55	14.85	18.23	24.00		-2.36			Pass
HT40	MCS0	2	38	5190	0.11	0.25	7.86	7.78	10.83	24.00		-2.36			Pass
HT40	MCS0	2	46	5230	0.11	0.25	15.36	14.92	18.16	24.00		-2.36			Pass
VHT20	MCS0	2	36	5180	0.06	0.07	9.89	9.41	12.67	24.00		-2.36			Pass
VHT20	MCS0	2	44	5220	0.06	0.07	15.46	14.95	18.22	24.00		-2.36			Pass
VHT20	MCS0	2	48	5240	0.06	0.07	15.54	14.93	18.26	24.00		-2.36			Pass
VHT40	MCS0	2	38	5190	0.12	0.12	7.90	7.43	10.68	24.00		-2.36			Pass
VHT40	MCS0	2	46	5230	0.12	0.12	15.42	15.00	18.22	24.00		-2.36			Pass
VHT80	MCS0	2	42	5210	0.26	0.24	7.98	7.51	10.77	24.00		-2.36			Pass
VHT160	MCS0	2	50	5250	0.23	0.23	7.69	7.44	10.58	24.00		-2.36			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	2	36	5180	0.06	0.05			0.10	11.00		0.29			Pass
11a	6Mbps	2	44	5220	0.06	0.05			7.73	11.00		0.29			Pass
11a	6Mbps	2	48	5240	0.06	0.05			7.61	11.00		0.29			Pass
HT20	MCS0	2	36	5180	0.13	0.14			0.13	11.00		0.29			Pass
HT20	MCS0	2	44	5220	0.13	0.14			6.54	11.00		0.29			Pass
HT20	MCS0	2	48	5240	0.13	0.14			6.57	11.00		0.29			Pass
HT40	MCS0	2	38	5190	0.11	0.25			-4.64	11.00		0.29			Pass
HT40	MCS0	2	46	5230	0.11	0.25			3.57	11.00		0.29			Pass
VHT20	MCS0	2	36	5180	0.06	0.07			0.35	11.00		0.29			Pass
VHT20	MCS0	2	44	5220	0.06	0.07			6.59	11.00		0.29			Pass
VHT20	MCS0	2	48	5240	0.06	0.07			6.54	11.00		0.29			Pass
VHT40	MCS0	2	38	5190	0.12	0.12			-5.71	11.00		0.29			Pass
VHT40	MCS0	2	46	5230	0.12	0.12			3.26	11.00		0.29			Pass
VHT80	MCS0	2	42	5210	0.26	0.24			-7.61	11.00		0.29			Pass
VHT160	MCS0	2	50	5250	0.23	0.23			-9.31	11.00		0.29			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	2	52	5260	18.33	18.58	21.93	24.98	23.63		29.63		23.98		
11a	6Mbps	2	60	5300	18.13	18.03	22.63	23.28	23.56		29.56		23.98		
11a	6Mbps	2	64	5320	18.03	17.53	22.03	21.48	23.44		29.44		23.98		
HT20	MCS0	2	52	5260	18.53	18.78	22.33	22.38	23.68		29.68		23.98		
HT20	MCS0	2	60	5300	18.78	18.58	22.18	22.23	23.69		29.69		23.98		
HT20	MCS0	2	64	5320	18.63	18.38	22.13	22.08	23.64		29.64		23.98		
HT40	MCS0	2	54	5270	36.96	36.46	42.62	42.71	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.86	36.66	42.89	42.44	23.98		30.00		23.98		
VHT20	MCS0	2	52	5260	18.58	18.58	22.43	22.18	23.69		29.69		23.98		
VHT20	MCS0	2	60	5300	18.53	18.58	22.48	21.98	23.68		29.68		23.98		
VHT20	MCS0	2	64	5320	18.53	18.33	22.28	21.68	23.63		29.63		23.98		
VHT40	MCS0	2	54	5270	36.56	36.66	42.89	42.53	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.46	36.36	42.89	41.90	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.16	75.04	84.24	83.76	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)		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	2	52	5260	0.06	0.05	16.52	15.72	19.15	24.00		-2.19		26.99	Pass
11a	6Mbps	2	60	5300	0.06	0.05	16.46	15.57	19.05	24.00		-2.19		26.99	Pass
11a	6Mbps	2	64	5320	0.06	0.05	10.16	9.73	12.96	24.00		-2.19		26.99	Pass
HT20	MCS0	2	52	5260	0.13	0.14	15.54	14.80	18.20	24.00		-2.19		26.99	Pass
HT20	MCS0	2	60	5300	0.13	0.14	15.51	14.77	18.17	24.00		-2.19		26.99	Pass
HT20	MCS0	2	64	5320	0.13	0.14	10.20	9.79	13.01	24.00		-2.19		26.99	Pass
HT40	MCS0	2	54	5270	0.11	0.25	15.46	14.90	18.20	24.00		-2.19		26.99	Pass
HT40	MCS0	2	62	5310	0.11	0.25	8.05	7.83	10.95	24.00		-2.19		26.99	Pass
VHT20	MCS0	2	52	5260	0.06	0.07	15.52	14.78	18.18	24.00		-2.19		26.99	Pass
VHT20	MCS0	2	60	5300	0.06	0.07	15.54	14.74	18.17	24.00		-2.19		26.99	Pass
VHT20	MCS0	2	64	5320	0.06	0.07	9.90	9.32	12.63	24.00		-2.19		26.99	Pass
VHT40	MCS0	2	54	5270	0.12	0.12	15.44	14.94	18.21	24.00		-2.19		26.99	Pass
VHT40	MCS0	2	62	5310	0.12	0.12	8.09	7.39	10.76	24.00		-2.19		26.99	Pass
VHT80	MCS0	2	58	5290	0.26	0.24	8.12	7.60	10.88	24.00		-2.19		26.99	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	2	52	5260	0.06	0.05			7.58	11.00		0.79			Pass
11a	6Mbps	2	60	5300	0.06	0.05			7.54	11.00		0.79			Pass
11a	6Mbps	2	64	5320	0.06	0.05			0.49	11.00		0.79			Pass
HT20	MCS0	2	52	5260	0.13	0.14			6.38	11.00		0.79			Pass
HT20	MCS0	2	60	5300	0.13	0.14			6.33	11.00		0.79			Pass
HT20	MCS0	2	64	5320	0.13	0.14			0.38	11.00		0.79			Pass
HT40	MCS0	2	54	5270	0.11	0.25			3.38	11.00		0.79			Pass
HT40	MCS0	2	62	5310	0.11	0.25			-4.91	11.00		0.79			Pass
VHT20	MCS0	2	52	5260	0.06	0.07			6.32	11.00		0.79			Pass
VHT20	MCS0	2	60	5300	0.06	0.07			6.27	11.00		0.79			Pass
VHT20	MCS0	2	64	5320	0.06	0.07			0.38	11.00		0.79			Pass
VHT40	MCS0	2	54	5270	0.12	0.12			3.16	11.00		0.79			Pass
VHT40	MCS0	2	62	5310	0.12	0.12			-4.90	11.00		0.79			Pass
VHT80	MCS0	2	58	5290	0.26	0.24			-7.65	11.00		0.79			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	2	100	5500	18.03	17.63	21.73	21.48	23.46		29.46		23.98		
11a	6Mbps	2	116	5580	18.73	17.73	24.73	21.53	23.49		29.49		23.98		
11a	6Mbps	2	140	5700	17.68	17.63	21.93	21.53	23.46		29.46		23.98		
HT20	MCS0	2	100	5500	18.68	18.38	22.13	21.88	23.64		29.64		23.98		
HT20	MCS0	2	116	5580	18.98	18.53	22.78	21.78	23.68		29.68		23.98		
HT20	MCS0	2	140	5700	18.68	18.43	22.18	22.03	23.66		29.66		23.98		
HT40	MCS0	2	102	5510	36.86	36.56	43.25	42.17	23.98		30.00		23.98		
HT40	MCS0	2	110	5550	36.66	36.76	43.52	42.26	23.98		30.00		23.98		
HT40	MCS0	2	134	5670	36.66	36.66	43.25	42.53	23.98		30.00		23.98		
VHT20	MCS0	2	100	5500	18.53	18.33	22.23	21.68	23.63		29.63		23.98		
VHT20	MCS0	2	116	5580	18.73	18.48	22.53	21.93	23.67		29.67		23.98		
VHT20	MCS0	2	140	5700	18.43	18.33	22.53	21.83	23.63		29.63		23.98		
VHT40	MCS0	2	102	5510	36.56	36.56	42.89	42.17	23.98		30.00		23.98		
VHT40	MCS0	2	110	5550	36.86	36.76	43.79	42.35	23.98		30.00		23.98		
VHT40	MCS0	2	134	5670	36.56	36.56	43.16	42.26	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.16	75.16	84.40	83.44	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	75.28	75.16	84.40	83.60	23.98		30.00		23.98		
VHT160	MCS0	2	114	5570	154.21	154.55	169.49	170.85	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)		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	2	100	5500	0.06	0.05	10.27	10.38	13.34	24.00		1.49		26.99	Pass
11a	6Mbps	2	116	5580	0.06	0.05	16.28	16.34	19.32	24.00		1.49		26.99	Pass
11a	6Mbps	2	140	5700	0.06	0.05	9.60	9.74	12.68	24.00		1.49		26.99	Pass
HT20	MCS0	2	100	5500	0.13	0.14	10.35	10.37	13.37	24.00		1.49		26.99	Pass
HT20	MCS0	2	116	5580	0.13	0.14	15.28	15.49	18.40	24.00		1.49		26.99	Pass
HT20	MCS0	2	140	5700	0.13	0.14	9.39	9.69	12.56	24.00		1.49		26.99	Pass
HT40	MCS0	2	102	5510	0.11	0.25	7.49	8.69	11.14	24.00		1.49		26.99	Pass
HT40	MCS0	2	110	5550	0.11	0.25	13.31	13.00	16.17	24.00		1.49		26.99	Pass
HT40	MCS0	2	134	5670	0.11	0.25	7.76	8.37	11.09	24.00		1.49		26.99	Pass
VHT20	MCS0	2	100	5500	0.06	0.07	10.10	10.29	13.21	24.00		1.49		26.99	Pass
VHT20	MCS0	2	116	5580	0.06	0.07	15.22	15.42	18.33	24.00		1.49		26.99	Pass
VHT20	MCS0	2	140	5700	0.06	0.07	9.32	9.14	12.24	24.00		1.49		26.99	Pass
VHT40	MCS0	2	102	5510	0.12	0.12	7.74	8.49	11.14	24.00		1.49		26.99	Pass
VHT40	MCS0	2	110	5550	0.12	0.12	13.31	12.97	16.15	24.00		1.49		26.99	Pass
VHT40	MCS0	2	134	5670	0.12	0.12	7.95	8.11	11.04	24.00		1.49		26.99	Pass
VHT80	MCS0	2	106	5530	0.26	0.24	7.78	8.28	11.05	24.00		1.49		26.99	Pass
VHT80	MCS0	2	122	5610	0.26	0.24	7.60	7.99	10.81	24.00		1.49		26.99	Pass
VHT160	MCS0	2	114	5570	0.23	0.23	7.70	7.50	10.61	24.00		1.49		26.99	Pass

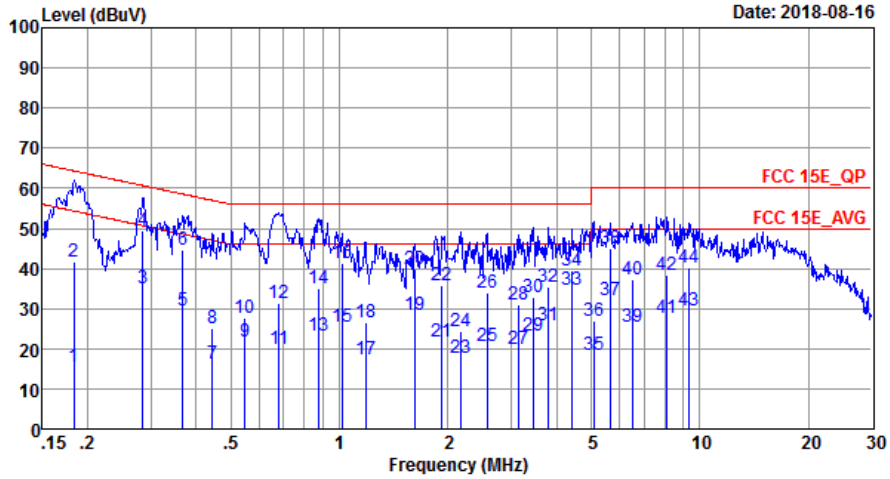
Report Number : FR880204A

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	2	100	5500	0.06	0.05			1.16	11.00		2.39			Pass
11a	6Mbps	2	116	5580	0.06	0.05			8.01	11.00		2.39			Pass
11a	6Mbps	2	140	5700	0.06	0.05			0.40	11.00		2.39			Pass
HT20	MCS0	2	100	5500	0.13	0.14			0.92	11.00		2.39			Pass
HT20	MCS0	2	116	5580	0.13	0.14			6.66	11.00		2.39			Pass
HT20	MCS0	2	140	5700	0.13	0.14			0.10	11.00		2.39			Pass
HT40	MCS0	2	102	5510	0.11	0.25			-4.34	11.00		2.39			Pass
HT40	MCS0	2	110	5550	0.11	0.25			3.93	11.00		2.39			Pass
HT40	MCS0	2	134	5670	0.11	0.25			-4.35	11.00		2.39			Pass
VHT20	MCS0	2	100	5500	0.06	0.07			0.67	11.00		2.39			Pass
VHT20	MCS0	2	116	5580	0.06	0.07			6.60	11.00		2.39			Pass
VHT20	MCS0	2	140	5700	0.06	0.07			-0.24	11.00		2.39			Pass
VHT40	MCS0	2	102	5510	0.12	0.12			-4.43	11.00		2.39			Pass
VHT40	MCS0	2	110	5550	0.12	0.12			3.61	11.00		2.39			Pass
VHT40	MCS0	2	134	5670	0.12	0.12			-4.28	11.00		2.39			Pass
VHT80	MCS0	2	106	5530	0.26	0.24			-7.73	11.00		2.39			Pass
VHT80	MCS0	2	122	5610	0.26	0.24			-7.71	11.00		2.39			Pass
VHT160	MCS0	2	114	5570	0.23	0.23			-8.77	11.00		2.39			Pass

Appendix B. AC Conducted Emission Test Results

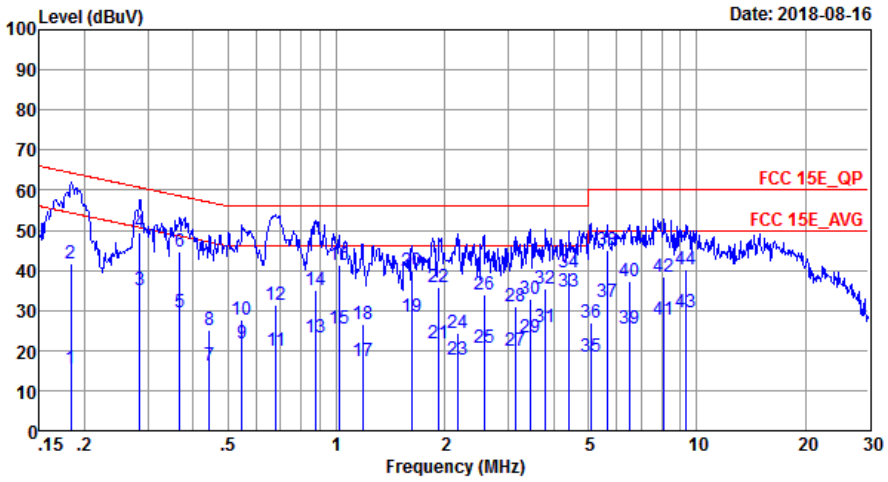
Test Engineer :	Zhang Xu	Temperature :	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Site : CO01-SZ
Condition: FCC 15E_QP LISN_20170907_L LINE
Project : (FR)880204
Mode : Mode 2
IMEI : 869410030016506/869410030017801

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.18	15.40	-38.93	54.33	5.30	0.03	10.07	Average
2	0.18	41.80	-22.53	64.33	31.70	0.03	10.07	QP
3	0.28	35.21	-15.47	50.68	25.10	0.03	10.08	Average
4	0.28	49.31	-11.37	60.68	39.20	0.03	10.08	QP
5	0.37	29.61	-18.95	48.56	19.50	0.03	10.08	Average
6	0.37	44.61	-13.95	58.56	34.50	0.03	10.08	QP
7	0.44	16.11	-30.87	46.98	6.00	0.03	10.08	Average
8	0.44	25.11	-31.87	56.98	15.00	0.03	10.08	QP
9	0.55	21.70	-24.30	46.00	11.60	0.02	10.08	Average
10	0.55	27.50	-28.50	56.00	17.40	0.02	10.08	QP
11	0.68	19.90	-26.10	46.00	9.80	0.02	10.08	Average
12	0.68	31.50	-24.50	56.00	21.40	0.02	10.08	QP
13	0.88	23.14	-22.86	46.00	13.00	0.05	10.09	Average
14	0.88	35.04	-20.96	56.00	24.90	0.05	10.09	QP
15	1.02	25.36	-20.64	46.00	15.20	0.07	10.09	Average
16	1.02	41.36	-14.64	56.00	31.20	0.07	10.09	QP
17	1.18	17.48	-28.52	46.00	7.31	0.08	10.09	Average
18	1.18	26.57	-29.43	56.00	16.40	0.08	10.09	QP
19	1.62	28.50	-17.50	46.00	18.30	0.10	10.10	Average
20	1.62	40.00	-16.00	56.00	29.80	0.10	10.10	QP
21	1.93	21.92	-24.08	46.00	11.70	0.11	10.11	Average
22	1.93	35.82	-20.18	56.00	25.60	0.11	10.11	QP
23	2.17	17.64	-28.36	46.00	7.40	0.12	10.12	Average
24	2.17	24.44	-31.56	56.00	14.20	0.12	10.12	QP
25	2.57	20.67	-25.33	46.00	10.40	0.14	10.13	Average
26	2.57	34.07	-21.93	56.00	23.80	0.14	10.13	QP
27	3.16	19.81	-26.19	46.00	9.51	0.16	10.14	Average
28	3.16	31.11	-24.89	56.00	20.81	0.16	10.14	QP
29	3.45	23.12	-22.88	46.00	12.80	0.17	10.15	Average

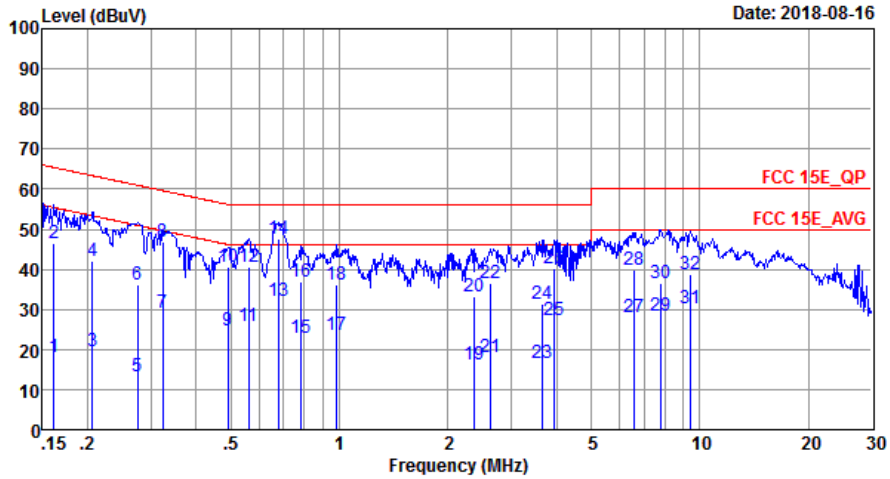
Test Engineer :	Zhang Xu	Temperature :	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Site : CO01-SZ
Condition: FCC 15E_QP LISN_20170907_L LINE
Project : (FR)880204
Mode : Mode 2
IMEI : 869410030016506/869410030017801

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
30		3.45	33.02	-22.98	56.00	22.70	0.17	10.15	QP
31		3.80	25.73	-20.27	46.00	15.40	0.17	10.16	Average
32		3.80	35.43	-20.57	56.00	25.10	0.17	10.16	QP
33	*	4.43	34.76	-11.24	46.00	24.40	0.18	10.18	Average
34		4.43	39.66	-16.34	56.00	29.30	0.18	10.18	QP
35		5.08	18.38	-31.62	50.00	8.00	0.19	10.19	Average
36		5.08	27.08	-32.92	60.00	16.70	0.19	10.19	QP
37		5.62	32.21	-17.79	50.00	21.80	0.20	10.21	Average
38		5.62	45.11	-14.89	60.00	34.70	0.20	10.21	QP
39		6.49	25.56	-24.44	50.00	15.11	0.22	10.23	Average
40		6.49	37.36	-22.64	60.00	26.91	0.22	10.23	QP
41		8.11	27.77	-22.23	50.00	17.21	0.28	10.28	Average
42		8.11	38.47	-21.53	60.00	27.91	0.28	10.28	QP
43		9.35	29.35	-20.65	50.00	18.70	0.33	10.32	Average
44		9.35	40.15	-19.85	60.00	29.50	0.33	10.32	QP

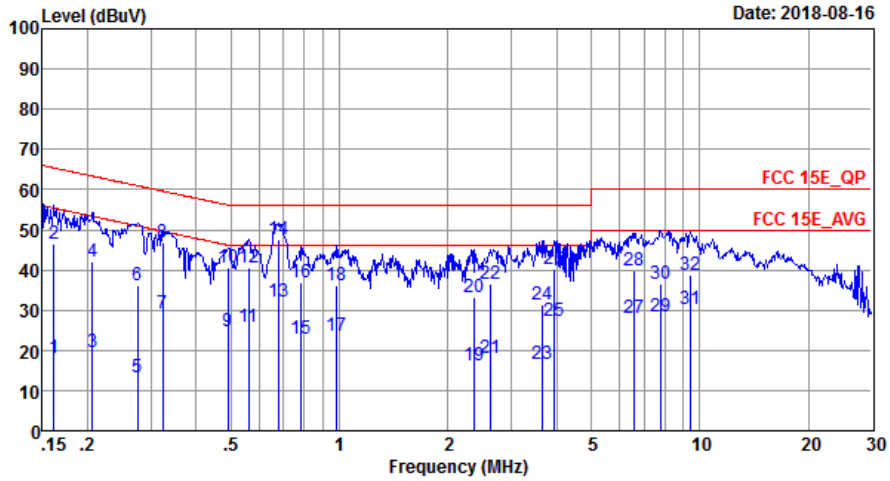
Test Engineer :	Zhang Xu	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral



Site : CO01-SZ
Condition: FCC 15E_QP LISN_20170907_N NEUTRAL
Project : (FR)880204
Mode : Mode 2
IMEI : 869410030016506/869410030017801

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	18.09	-37.29	55.38	8.00	0.03	10.06	Average
2		0.16	46.39	-18.99	65.38	36.30	0.03	10.06	QP
3		0.21	19.50	-33.86	53.36	9.40	0.03	10.07	Average
4		0.21	42.00	-21.36	63.36	31.90	0.03	10.07	QP
5		0.28	13.31	-37.63	50.94	3.20	0.03	10.08	Average
6		0.28	36.01	-24.93	60.94	25.90	0.03	10.08	QP
7		0.32	29.31	-20.31	49.62	19.20	0.03	10.08	Average
8		0.32	47.01	-12.61	59.62	36.90	0.03	10.08	QP
9		0.49	24.70	-21.44	46.14	14.60	0.02	10.08	Average
10		0.49	40.70	-15.44	56.14	30.60	0.02	10.08	QP
11		0.56	26.00	-20.00	46.00	15.90	0.02	10.08	Average
12		0.56	40.70	-15.30	56.00	30.60	0.02	10.08	QP
13		0.68	32.10	-13.90	46.00	22.00	0.02	10.08	Average
14	*	0.68	47.60	-8.40	56.00	37.50	0.02	10.08	QP
15		0.78	22.81	-23.19	46.00	12.70	0.03	10.08	Average
16		0.78	36.91	-19.09	56.00	26.80	0.03	10.08	QP
17		0.98	23.44	-22.56	46.00	13.30	0.05	10.09	Average
18		0.98	36.14	-19.86	56.00	26.00	0.05	10.09	QP
19		2.36	16.16	-29.84	46.00	6.00	0.04	10.12	Average
20		2.36	33.06	-22.94	56.00	22.90	0.04	10.12	QP
21		2.64	17.97	-28.03	46.00	7.80	0.04	10.13	Average
22		2.64	36.57	-19.43	56.00	26.40	0.04	10.13	QP
23		3.66	16.60	-29.40	46.00	6.39	0.05	10.16	Average
24		3.66	31.30	-24.70	56.00	21.09	0.05	10.16	QP
25		3.94	27.42	-18.58	46.00	17.21	0.05	10.16	Average
26		3.94	40.22	-15.78	56.00	30.01	0.05	10.16	QP
27		6.59	28.11	-21.89	50.00	17.80	0.07	10.24	Average
28		6.59	39.81	-20.19	60.00	29.50	0.07	10.24	QP
29		7.77	28.47	-21.53	50.00	18.11	0.09	10.27	Average

Test Engineer :	Zhang Xu	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral



Site : CO01-SZ
Condition: FCC 15E_QP LISN_20170907_N NEUTRAL
Project : (FR)880204
Mode : Mode 2
IMEI : 869410030016506/869410030017801

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
30	7.77	36.67	-23.33	60.00	26.31	0.09	10.27	QP
31	9.45	30.27	-19.73	50.00	19.80	0.15	10.32	Average
32	9.45	38.67	-21.33	60.00	28.20	0.15	10.32	QP

Appendix C. Radiated Spurious Emission

Test Engineer :	Xiaoshi Tan	Temperature :	24~25°C
		Relative Humidity :	48~49%

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.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5144.04	50.23	-23.77	74	38.09	33.87	11.37	33.1	108	34	P	H
		5146.38	40.81	-13.19	54	28.67	33.87	11.37	33.1	108	34	A	H
	*	5180	95.71	-	-	83.42	33.92	11.47	33.1	108	34	P	H
	*	5180	89.69	-	-	77.4	33.92	11.47	33.1	108	34	A	H
													H
													H
		5029.12	49.9	-24.1	74	38.23	33.72	11.05	33.1	219	8	P	V
		5141.7	40.75	-13.25	54	28.61	33.87	11.37	33.1	219	8	A	V
	*	5180	98.2	-	-	85.91	33.92	11.47	33.1	219	8	P	V
	*	5180	91.29	-	-	79	33.92	11.47	33.1	219	8	A	V
													V
													V
802.11a CH 44 5220MHz		5441.68	55.62	-18.38	74	42.64	34.24	11.84	33.1	100	31	P	H
		5435.92	47.49	-6.51	54	34.51	34.24	11.84	33.1	100	31	A	H
	*	5570	86.33	-	-	72.99	34.41	12.03	33.1	100	31	P	H
	*	5570	80.86	-	-	67.52	34.41	12.03	33.1	100	31	A	H
		5748.375	52.03	-21.97	74	38.03	34.45	12.65	33.1	100	31	P	H
		5727.9	45.96	-8.04	54	32.09	34.46	12.51	33.1	100	31	A	H
		5441.44	60.91	-13.09	74	47.93	34.24	11.84	33.1	115	19	P	V
		5436.16	52	-2	54	39.02	34.24	11.84	33.1	115	19	A	V
	*	5570	91.12	-	-	77.78	34.41	12.03	33.1	115	19	P	V
	*	5570	85.66	-	-	72.32	34.41	12.03	33.1	115	19	A	V
		5728.425	56.65	-17.35	74	42.78	34.46	12.51	33.1	115	19	P	V
		5727.55	47.92	-6.08	54	34.05	34.46	12.51	33.1	115	19	A	V

802.11a CH 48 5240MHz		5441.44	55.47	-18.53	74	42.49	34.24	11.84	33.1	115	142	P	H
		5440.96	47.61	-6.39	54	34.63	34.24	11.84	33.1	115	142	A	H
	*	5570	86.38	-	-	73.04	34.41	12.03	33.1	115	142	P	H
	*	5570	81.65	-	-	68.31	34.41	12.03	33.1	115	142	A	H
		5751.525	51.73	-22.27	74	37.73	34.45	12.65	33.1	115	142	P	H
		5727.9	45.15	-8.85	54	31.28	34.46	12.51	33.1	115	142	A	H
		5442.4	54.17	-19.83	74	41.19	34.24	11.84	33.1	231	156	P	V
		5435.92	46.76	-7.24	54	33.78	34.24	11.84	33.1	231	156	A	V
	*	5570	88.05	-	-	74.71	34.41	12.03	33.1	231	156	P	V
	*	5570	82.87	-	-	69.53	34.41	12.03	33.1	231	156	A	V
		5728.25	53.24	-20.76	74	39.37	34.46	12.51	33.1	231	156	P	V
		5728.075	47.21	-6.79	54	33.34	34.46	12.51	33.1	231	156	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	50.49	-23.51	74	54.71	37.02	14.61	55.85	147	147	P	H
		10360	41.11	-12.89	54	45.33	37.02	14.61	55.85	147	147	A	H
		15540	52.27	-21.73	74	51.88	40.78	16.34	56.73	176	75	P	H
		15540	42.38	-11.62	54	41.99	40.78	16.34	56.73	176	75	A	H
		10360	49.67	-24.33	74	53.89	37.02	14.61	55.85	152	260	P	V
		10360	40.65	-13.35	54	44.87	37.02	14.61	55.85	152	260	A	V
		15540	49.52	-24.48	74	49.13	40.78	16.34	56.73	189	238	P	V
		15540	41.96	-12.04	54	41.57	40.78	16.34	56.73	189	238	A	V
802.11a CH 44 5220MHz		11140	51.35	-22.65	74	54.97	37.48	14.8	55.9	170	200	P	H
		11140	42.9	-11.1	54	46.52	37.48	14.8	55.9	170	200	A	H
		16710	54.85	-19.15	74	49.72	43.82	17.47	56.16	156	350	P	H
		16710	47.28	-6.72	54	42.15	43.82	17.47	56.16	156	350	A	H
		11140	50.4	-23.6	74	54.02	37.48	14.8	55.9	170	200	P	V
		11140	42.86	-11.14	54	46.48	37.48	14.8	55.9	170	200	A	V
		16710	56.11	-17.89	74	50.98	43.82	17.47	56.16	156	350	P	V
		16710	47.5	-6.5	54	42.37	43.82	17.47	56.16	156	350	A	V
802.11a CH 48 5240MHz		11140	50.64	-23.36	74	54.26	37.48	14.8	55.9	170	200	P	H
		11140	42.65	-11.35	54	46.27	37.48	14.8	55.9	170	200	A	H
		16710	55.42	-18.58	74	50.29	43.82	17.47	56.16	156	350	P	H
		16710	47.45	-6.55	54	42.32	43.82	17.47	56.16	156	350	A	H
		11140	50.74	-23.26	74	54.36	37.48	14.8	55.9	170	200	P	V
		11140	42.61	-11.39	54	46.23	37.48	14.8	55.9	170	200	A	V
		16710	55.69	-18.31	74	50.56	43.82	17.47	56.16	156	350	P	V
		16710	47.38	-6.62	54	42.25	43.82	17.47	56.16	156	350	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 (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)
		5090.22	50.21	-23.79	74	38.24	33.81	11.26	33.1	110	37	P	H
		5144.04	41.37	-12.63	54	29.23	33.87	11.37	33.1	110	37	A	H
	*	5180	94.3	-	-	82.01	33.92	11.47	33.1	110	37	P	H
	*	5180	87.14	-	-	74.85	33.92	11.47	33.1	110	37	A	H
802.11n													H
HT20													H
CH 36		5061.88	50.24	-23.76	74	38.42	33.76	11.16	33.1	307	0	P	V
5180MHz		5148.46	41.47	-12.53	54	29.33	33.87	11.37	33.1	307	0	A	V
	*	5180	97.12	-	-	84.83	33.92	11.47	33.1	307	0	P	V
	*	5180	89.14	-	-	76.85	33.92	11.47	33.1	307	0	A	V
													V
													V
		5066.56	51.19	-22.81	74	39.37	33.76	11.16	33.1	110	36	P	H
		5067.08	41.45	-12.55	54	29.63	33.76	11.16	33.1	110	36	A	H
	*	5220	98.84	-	-	86.4	33.96	11.58	33.1	110	36	P	H
	*	5220	92.98	-	-	80.54	33.96	11.58	33.1	110	36	A	H
802.11n		5374.8	50.23	-23.77	74	37.44	34.15	11.74	33.1	110	36	P	H
HT20		5371.92	42.14	-11.86	54	29.35	34.15	11.74	33.1	110	36	A	H
CH 44		5149.5	50.42	-23.58	74	38.28	33.87	11.37	33.1	320	0	P	V
5220MHz		5068.12	41.6	-12.4	54	29.78	33.76	11.16	33.1	320	0	A	V
	*	5220	102.63	-	-	90.19	33.96	11.58	33.1	320	0	P	V
	*	5220	94.89	-	-	82.45	33.96	11.58	33.1	320	0	A	V
		5375.04	50.5	-23.5	74	37.71	34.15	11.74	33.1	320	0	P	V
		5372.64	42.75	-11.25	54	29.96	34.15	11.74	33.1	320	0	A	V

		5138.06	49.86	-24.14	74	37.74	33.85	11.37	33.1	100	34	P	H
		5087.36	41.19	-12.81	54	29.24	33.79	11.26	33.1	100	34	A	H
	*	5240	99.27	-	-	86.77	33.98	11.62	33.1	100	34	P	H
	*	5240	92.73	-	-	80.23	33.98	11.62	33.1	100	34	A	H
802.11n		5454.48	51.36	-22.64	74	38.36	34.26	11.84	33.1	100	34	P	H
HT20		5392.8	42.04	-11.96	54	29.18	34.18	11.78	33.1	100	34	A	H
CH 48		5099.06	50.21	-23.79	74	38.24	33.81	11.26	33.1	319	0	P	V
5240MHz		5087.88	41.52	-12.48	54	29.57	33.79	11.26	33.1	319	0	A	V
	*	5240	102.81	-	-	90.31	33.98	11.62	33.1	319	0	P	V
	*	5240	94.62	-	-	82.12	33.98	11.62	33.1	319	0	A	V
		5454.96	50.41	-23.59	74	37.41	34.26	11.84	33.1	319	0	P	V
		5392.32	42.32	-11.68	54	29.46	34.18	11.78	33.1	319	0	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	50.95	-23.05	74	55.17	37.02	14.61	55.85	152	260	P	H
		10360	40.91	-13.09	54	45.13	37.02	14.61	55.85	152	260	A	H
		15540	51.92	-22.08	74	51.53	40.78	16.34	56.73	189	238	P	H
		15540	43.27	-10.73	54	42.88	40.78	16.34	56.73	189	238	A	H
		10360	50.64	-23.36	74	54.86	37.02	14.61	55.85	152	260	P	V
		10360	42.22	-11.78	54	46.44	37.02	14.61	55.85	152	260	A	V
		15540	51.05	-22.95	74	50.66	40.78	16.34	56.73	189	238	P	V
		15540	43.37	-10.63	54	42.98	40.78	16.34	56.73	189	238	A	V
802.11n HT20 CH 44 5220MHz		10440	49.95	-24.05	74	54.14	37.06	14.63	55.88	150	230	P	H
		10440	42.72	-11.28	54	46.91	37.06	14.63	55.88	150	230	A	H
		15660	52.3	-21.7	74	51.29	41.07	16.43	56.49	160	225	P	H
		15660	44.1	-9.9	54	43.09	41.07	16.43	56.49	160	225	A	H
		10440	50.58	-23.42	74	54.77	37.06	14.63	55.88	150	230	P	V
		10440	41.07	-12.93	54	45.26	37.06	14.63	55.88	150	230	A	V
		15660	50.61	-23.39	74	49.6	41.07	16.43	56.49	160	225	P	V
		15660	42.3	-11.7	54	41.29	41.07	16.43	56.49	160	225	A	V
802.11n HT20 CH 48 5240MHz		10480	50.05	-23.95	74	54.22	37.09	14.64	55.9	150	289	P	H
		10480	41.71	-12.29	54	45.88	37.09	14.64	55.9	150	289	A	H
		15720	52.79	-21.21	74	51.45	41.24	16.45	56.35	150	291	P	H
		15720	44.47	-9.53	54	43.13	41.24	16.45	56.35	150	291	A	H
		10480	50.15	-23.85	74	54.32	37.09	14.64	55.9	150	289	P	V
		10480	40.38	-13.62	54	44.55	37.09	14.64	55.9	150	289	A	V
		15720	51.3	-22.7	74	49.96	41.24	16.45	56.35	150	291	P	V
		15720	44.5	-9.5	54	43.16	41.24	16.45	56.35	150	291	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 (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		5132.08	49.96	-24.04	74	37.84	33.85	11.37	33.1	108	50	P	H
		5144.56	41.95	-12.05	54	29.81	33.87	11.37	33.1	108	50	A	H
	*	5190	87.65	-	-	75.36	33.92	11.47	33.1	108	50	P	H
	*	5190	81.88	-	-	69.59	33.92	11.47	33.1	108	50	A	H
		5396.44	51.1	-22.9	74	38.22	34.2	11.78	33.1	108	50	P	H
		5453.84	41.93	-12.07	54	28.93	34.26	11.84	33.1	108	50	A	H
		5045.76	50.08	-23.92	74	38.28	33.74	11.16	33.1	307	0	P	V
		5146.38	42.32	-11.68	54	30.18	33.87	11.37	33.1	307	0	A	V
	*	5190	91.2	-	-	78.91	33.92	11.47	33.1	307	0	P	V
	*	5190	83.51	-	-	71.22	33.92	11.47	33.1	307	0	A	V
		5434.8	51.07	-22.93	74	38.09	34.24	11.84	33.1	307	0	P	V
		5363.4	42.23	-11.77	54	29.44	34.15	11.74	33.1	307	0	A	V
802.11n HT40 CH 46 5230MHz		5083.2	50.83	-23.17	74	38.88	33.79	11.26	33.1	100	39	P	H
		5087.36	42.77	-11.23	54	30.82	33.79	11.26	33.1	100	39	A	H
	*	5230	96.33	-	-	83.87	33.98	11.58	33.1	100	39	P	H
	*	5230	90.11	-	-	77.65	33.98	11.58	33.1	100	39	A	H
		5358.96	50.83	-23.17	74	38.06	34.13	11.74	33.1	100	39	P	H
		5374.32	43.91	-10.09	54	31.12	34.15	11.74	33.1	100	39	A	H
		5085.02	51.62	-22.38	74	39.67	33.79	11.26	33.1	320	360	P	V
		5085.28	44.02	-9.98	54	32.07	33.79	11.26	33.1	320	360	A	V
	*	5230	99	-	-	86.54	33.98	11.58	33.1	320	360	P	V
	*	5230	92.33	-	-	79.87	33.98	11.58	33.1	320	360	A	V
		5374.8	52.5	-21.5	74	39.71	34.15	11.74	33.1	320	360	P	V
		5373.6	45.16	-8.84	54	32.37	34.15	11.74	33.1	320	360	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		10360	51.21	-22.79	74	55.43	37.02	14.61	55.85	152	260	P	H
		10360	41.34	-12.66	54	45.56	37.02	14.61	55.85	152	260	A	H
		15540	51.43	-22.57	74	51.04	40.78	16.34	56.73	189	238	P	H
		15540	42.98	-11.02	54	42.59	40.78	16.34	56.73	189	238	A	H
		10360	50.56	-23.44	74	54.78	37.02	14.61	55.85	152	260	P	V
		10360	40.53	-13.47	54	44.75	37.02	14.61	55.85	152	260	A	V
		15540	50.64	-23.36	74	50.25	40.78	16.34	56.73	189	238	P	V
		15540	41.43	-12.57	54	41.04	40.78	16.34	56.73	189	238	A	V
802.11n HT40 CH 46 5230MHz		10460	51	-23	74	55.17	37.07	14.64	55.88	145	253	P	H
		10460	40.87	-13.13	54	45.04	37.07	14.64	55.88	145	253	A	H
		15690	52.08	-21.92	74	50.89	41.16	16.45	56.42	125	189	P	H
		15690	43.04	-10.96	54	41.85	41.16	16.45	56.42	125	189	A	H
		10460	51.12	-22.88	74	55.29	37.07	14.64	55.88	285	230	P	V
		10460	41.91	-12.09	54	46.08	37.07	14.64	55.88	285	230	A	V
		15690	52.36	-21.64	74	51.17	41.16	16.45	56.42	215	174	P	V
		15690	43.43	-10.57	54	42.24	41.16	16.45	56.42	215	174	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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		5149.5	52.17	-21.83	74	40.03	33.87	11.37	33.1	100	37	P	H
		5150	43.56	-10.44	54	31.42	33.87	11.37	33.1	100	37	A	H
	*	5210	87.55	-	-	75.11	33.96	11.58	33.1	100	37	P	H
	*	5210	80.67	-	-	68.23	33.96	11.58	33.1	100	37	A	H
		5442.96	50.76	-23.24	74	37.78	34.24	11.84	33.1	100	37	P	H
		5454	42.45	-11.55	54	29.45	34.26	11.84	33.1	100	37	A	H
		5136.24	51.22	-22.78	74	39.1	33.85	11.37	33.1	319	13	P	V
		5140.4	43.08	-10.92	54	30.94	33.87	11.37	33.1	319	13	A	V
	*	5210	90.44	-	-	78	33.96	11.58	33.1	319	13	P	V
	*	5210	83.61	-	-	71.17	33.96	11.58	33.1	319	13	A	V
		5403.6	50.5	-23.5	74	37.62	34.2	11.78	33.1	319	13	P	V
		5375.52	42.07	-11.93	54	29.28	34.15	11.74	33.1	319	13	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	50.51	-23.49	74	54.7	37.05	14.63	55.87	150	230	P	H
		10420	40.77	-13.23	54	44.96	37.05	14.63	55.87	150	230	A	H
		15630	52.74	-21.26	74	51.83	41.03	16.4	56.52	160	225	P	H
		15630	44.74	-9.26	54	43.83	41.03	16.4	56.52	160	225	A	H
		10420	50.5	-23.5	74	54.69	37.05	14.63	55.87	150	230	P	V
		10420	41.53	-12.47	54	45.72	37.05	14.63	55.87	150	230	A	V
		15630	53.56	-20.44	74	52.65	41.03	16.4	56.52	160	225	P	V
		15630	44.9	-9.1	54	43.99	41.03	16.4	56.52	160	225	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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5013	50.89	-23.11	74	39.24	33.7	11.05	33.1	100	30	P	H
		5106.6	41.24	-12.76	54	29.25	33.83	11.26	33.1	100	30	A	H
	*	5260	101.5	-	-	88.96	34.02	11.62	33.1	100	30	P	H
	*	5260	95.66	-	-	83.12	34.02	11.62	33.1	100	30	A	H
		5430.72	50.66	-23.34	74	37.68	34.24	11.84	33.1	100	30	P	H
		5412.24	42.12	-11.88	54	29.22	34.22	11.78	33.1	100	30	A	H
		5106.86	50.18	-23.82	74	38.19	33.83	11.26	33.1	198	11	P	V
		5106.6	41.54	-12.46	54	29.55	33.83	11.26	33.1	198	11	A	V
	*	5260	104.78	-	-	92.24	34.02	11.62	33.1	198	11	P	V
	*	5260	98.03	-	-	85.49	34.02	11.62	33.1	198	11	A	V
		5412	51.45	-22.55	74	38.55	34.22	11.78	33.1	198	11	P	V
		5412.24	43.16	-10.84	54	30.26	34.22	11.78	33.1	198	11	A	V
802.11a CH 60 5300MHz		5148.05	49.72	-24.28	74	37.58	33.87	11.37	33.1	100	31	P	H
		5146.65	41.4	-12.6	54	29.26	33.87	11.37	33.1	100	31	A	H
	*	5300	101.22	-	-	88.59	34.07	11.66	33.1	100	31	P	H
	*	5300	93.93	-	-	81.3	34.07	11.66	33.1	100	31	A	H
		5442	51.33	-22.67	74	38.35	34.24	11.84	33.1	100	31	P	H
		5452.32	41.82	-12.18	54	28.82	34.26	11.84	33.1	100	31	A	H
		5146.3	50.05	-23.95	74	37.91	33.87	11.37	33.1	212	8	P	V
		5146.65	41.71	-12.29	54	29.57	33.87	11.37	33.1	212	8	A	V
	*	5300	104.94	-	-	92.31	34.07	11.66	33.1	212	8	P	V
	*	5300	98.56	-	-	85.93	34.07	11.66	33.1	212	8	A	V
		5452.32	51.76	-22.24	74	38.76	34.26	11.84	33.1	212	8	P	V
		5452.08	42.66	-11.34	54	29.66	34.26	11.84	33.1	212	8	A	V

802.11a CH 64 5320MHz	*	5320	95.9	-	-	83.21	34.09	11.7	33.1	100	34	P	H
	*	5320	90.14	-	-	77.45	34.09	11.7	33.1	100	34	A	H
		5350.4	50.8	-23.2	74	38.03	34.13	11.74	33.1	100	34	P	H
		5350.24	40.73	-13.27	54	27.96	34.13	11.74	33.1	100	34	A	H
													H
													H
	*	5320	99.39	-	-	86.7	34.09	11.7	33.1	227	9	P	V
	*	5320	93.2	-	-	80.51	34.09	11.7	33.1	227	9	A	V
		5361.92	50.41	-23.59	74	37.62	34.15	11.74	33.1	227	9	P	V
		5352.48	41.39	-12.61	54	28.62	34.13	11.74	33.1	227	9	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	49.62	-24.38	74	53.77	37.11	14.65	55.91	251	0	P	H
		10520	41.19	-12.81	54	45.34	37.11	14.65	55.91	251	0	A	H
		15780	52.93	-21.07	74	51.31	41.36	16.51	56.25	175	36	P	H
		15780	43.94	-10.06	54	42.32	41.36	16.51	56.25	175	36	A	H
		10520	51.42	-22.58	74	55.57	37.11	14.65	55.91	150	220	P	V
		10520	41.59	-12.41	54	45.74	37.11	14.65	55.91	150	220	A	V
		15780	52.23	-21.77	74	50.61	41.36	16.51	56.25	185	342	P	V
		15780	43.92	-10.08	54	42.3	41.36	16.51	56.25	185	342	A	V
802.11a CH 60 5300MHz		10600	50.7	-23.3	74	54.81	37.16	14.67	55.94	185	215	P	H
		10600	41.66	-12.34	54	45.77	37.16	14.67	55.94	185	215	A	H
		15900	52.71	-21.29	74	50.48	41.65	16.59	56.01	196	190	P	H
		15900	44.9	-9.1	54	42.67	41.65	16.59	56.01	196	190	A	H
		10600	51.07	-22.93	74	55.18	37.16	14.67	55.94	185	215	P	V
		10600	41.33	-12.67	54	45.44	37.16	14.67	55.94	185	215	A	V
		15900	52.18	-21.82	74	49.95	41.65	16.59	56.01	196	190	P	V
		15900	44.65	-9.35	54	42.42	41.65	16.59	56.01	196	190	A	V
802.11a CH 64 5320MHz		10640	50.39	-23.61	74	54.49	37.18	14.68	55.96	152	135	P	H
		10640	41.36	-12.64	54	45.46	37.18	14.68	55.96	152	135	A	H
		15960	52.81	-21.19	74	50.22	41.82	16.64	55.87	173	245	P	H
		15960	45.06	-8.94	54	42.47	41.82	16.64	55.87	173	245	A	H
		10640	50.29	-23.71	74	54.39	37.18	14.68	55.96	152	135	P	V
		10640	42.02	-11.98	54	46.12	37.18	14.68	55.96	152	135	A	V
		15960	52.92	-21.08	74	50.33	41.82	16.64	55.87	173	245	P	V
		15960	45.03	-8.97	54	42.44	41.82	16.64	55.87	173	245	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 (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)
		5106.34	49.95	-24.05	74	37.96	33.83	11.26	33.1	110	36	P	H
		5107.9	41.97	-12.03	54	29.98	33.83	11.26	33.1	110	36	A	H
	*	5260	99.87	-	-	87.33	34.02	11.62	33.1	110	36	P	H
	*	5260	92.42	-	-	79.88	34.02	11.62	33.1	110	36	A	H
802.11n		5402.4	51.93	-22.07	74	39.05	34.2	11.78	33.1	110	36	P	H
HT20		5411.76	42.37	-11.63	54	29.47	34.22	11.78	33.1	110	36	A	H
CH 52		5147.68	50.48	-23.52	74	38.34	33.87	11.37	33.1	300	2	P	V
5260MHz		5108.16	41.88	-12.12	54	29.89	33.83	11.26	33.1	300	2	A	V
	*	5260	103.23	-	-	90.69	34.02	11.62	33.1	300	2	P	V
	*	5260	94.98	-	-	82.44	34.02	11.62	33.1	300	2	A	V
		5412.24	50.86	-23.14	74	37.96	34.22	11.78	33.1	300	2	P	V
		5412.48	42.82	-11.18	54	29.92	34.22	11.78	33.1	300	2	A	V
		5092.75	50.24	-23.76	74	38.27	33.81	11.26	33.1	118	33	P	H
		5148.05	42.21	-11.79	54	30.07	33.87	11.37	33.1	118	33	A	H
	*	5300	99.46	-	-	86.83	34.07	11.66	33.1	118	33	P	H
	*	5300	92.2	-	-	79.57	34.07	11.66	33.1	118	33	A	H
802.11n		5421.36	50.83	-23.17	74	37.93	34.22	11.78	33.1	118	33	P	H
HT20		5453.28	42.23	-11.77	54	29.23	34.26	11.84	33.1	118	33	A	H
CH 60		5083.3	50.02	-23.98	74	38.07	33.79	11.26	33.1	292	1	P	V
5300MHz		5147.7	42.09	-11.91	54	29.95	33.87	11.37	33.1	292	1	A	V
	*	5300	102.34	-	-	89.71	34.07	11.66	33.1	292	1	P	V
	*	5300	94.94	-	-	82.31	34.07	11.66	33.1	292	1	A	V
		5459.52	51.55	-22.45	74	38.55	34.26	11.84	33.1	292	1	P	V
		5452.08	42.81	-11.19	54	29.81	34.26	11.84	33.1	292	1	A	V

	*	5320	94.25	-	-	81.56	34.09	11.7	33.1	100	30	P	H
	*	5320	86.57	-	-	73.88	34.09	11.7	33.1	100	30	A	H
		5374.88	50.48	-23.52	74	37.69	34.15	11.74	33.1	100	30	P	H
		5350.72	41.42	-12.58	54	28.65	34.13	11.74	33.1	100	30	A	H
802.11n													H
HT20													H
CH 64	*	5320	97.65	-	-	84.96	34.09	11.7	33.1	292	14	P	V
5320MHz	*	5320	89.89	-	-	77.2	34.09	11.7	33.1	292	14	A	V
		5432.32	50.64	-23.36	74	37.66	34.24	11.84	33.1	292	14	P	V
		5353.44	41.97	-12.03	54	29.2	34.13	11.74	33.1	292	14	A	V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	50.23	-23.77	74	54.38	37.11	14.65	55.91	150	220	P	H
		10520	41.94	-12.06	54	46.09	37.11	14.65	55.91	150	220	A	H
		15780	53.08	-20.92	74	51.46	41.36	16.51	56.25	159	345	P	H
		15780	43.75	-10.25	54	42.13	41.36	16.51	56.25	159	345	A	H
		10520	50.11	-23.89	74	54.26	37.11	14.65	55.91	150	220	P	V
		10520	40.33	-13.67	54	44.48	37.11	14.65	55.91	150	220	A	V
		15780	51.77	-22.23	74	50.15	41.36	16.51	56.25	159	345	P	V
		15780	43.74	-10.26	54	42.12	41.36	16.51	56.25	159	345	A	V
802.11n HT20 CH 60 5300MHz		10600	50.98	-23.02	74	55.09	37.16	14.67	55.94	185	215	P	H
		10600	42.01	-11.99	54	46.12	37.16	14.67	55.94	185	215	A	H
		15900	53.42	-20.58	74	51.19	41.65	16.59	56.01	196	190	P	H
		15900	44.44	-9.56	54	42.21	41.65	16.59	56.01	196	190	A	H
		10600	50.39	-23.61	74	54.5	37.16	14.67	55.94	185	215	P	V
		10600	41.54	-12.46	54	45.65	37.16	14.67	55.94	185	215	A	V
		15900	53.67	-20.33	74	51.44	41.65	16.59	56.01	196	190	P	V
		15900	45.01	-8.99	54	42.78	41.65	16.59	56.01	196	190	A	V
802.11n HT20 CH 64 5320MHz		10640	50.07	-23.93	74	54.17	37.18	14.68	55.96	152	135	P	H
		10640	42.02	-11.98	54	46.12	37.18	14.68	55.96	152	135	A	H
		15960	53.46	-20.54	74	50.87	41.82	16.64	55.87	173	245	P	H
		15960	45.95	-8.05	54	43.36	41.82	16.64	55.87	173	245	A	H
		10640	49.97	-24.03	74	54.07	37.18	14.68	55.96	152	135	P	V
		10640	41.95	-12.05	54	46.05	37.18	14.68	55.96	152	135	A	V
		15960	53.18	-20.82	74	50.59	41.82	16.64	55.87	173	245	P	V
		15960	45.85	-8.15	54	43.26	41.82	16.64	55.87	173	245	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 (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		5127.66	50.67	-23.33	74	38.55	33.85	11.37	33.1	139	32	P	H
		5126.62	43.56	-10.44	54	31.44	33.85	11.37	33.1	139	32	A	H
	*	5270	95.64	-	-	83.1	34.02	11.62	33.1	139	32	P	H
	*	5270	90.43	-	-	77.89	34.02	11.62	33.1	139	32	A	H
		5415.84	50.78	-23.22	74	37.88	34.22	11.78	33.1	139	32	P	H
		5412	43.31	-10.69	54	30.41	34.22	11.78	33.1	139	32	A	H
		5126.1	51.73	-22.27	74	39.61	33.85	11.37	33.1	302	1	P	V
		5126.62	44.6	-9.4	54	32.48	33.85	11.37	33.1	302	1	A	V
	*	5270	99.73	-	-	87.19	34.02	11.62	33.1	302	1	P	V
	*	5270	93.65	-	-	81.11	34.02	11.62	33.1	302	1	A	V
		5415.84	51.98	-22.02	74	39.08	34.22	11.78	33.1	302	1	P	V
		5416.08	45.23	-8.77	54	32.33	34.22	11.78	33.1	302	1	A	V
802.11n HT40 CH 62 5310MHz		5113.05	49.32	-24.68	74	37.33	33.83	11.26	33.1	100	29	P	H
		5136.5	41.6	-12.4	54	29.48	33.85	11.37	33.1	100	29	A	H
	*	5310	88.2	-	-	75.51	34.09	11.7	33.1	100	29	P	H
	*	5310	83.06	-	-	70.37	34.09	11.7	33.1	100	29	A	H
		5369.28	50.98	-23.02	74	38.19	34.15	11.74	33.1	100	29	P	H
		5453.52	42.71	-11.29	54	29.71	34.26	11.84	33.1	100	29	A	H
		5066.15	49.65	-24.35	74	37.83	33.76	11.16	33.1	169	13	P	V
		5135.8	41.76	-12.24	54	29.64	33.85	11.37	33.1	169	13	A	V
	*	5310	92.05	-	-	79.36	34.09	11.7	33.1	169	13	P	V
	*	5310	86.23	-	-	73.54	34.09	11.7	33.1	169	13	A	V
		5452.56	51.32	-22.68	74	38.32	34.26	11.84	33.1	169	13	P	V
		5453.04	44.04	-9.96	54	31.04	34.26	11.84	33.1	169	13	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	50.13	-23.87	74	54.27	37.12	14.66	55.92	89	235	P	H
		10540	41.35	-12.65	54	45.49	37.12	14.66	55.92	89	235	A	H
		15810	52.88	-21.12	74	51.09	41.44	16.53	56.18	175	165	P	H
		15810	44.06	-9.94	54	42.27	41.44	16.53	56.18	175	165	A	H
		10540	50.91	-23.09	74	55.05	37.12	14.66	55.92	105	214	P	V
		10540	41.73	-12.27	54	45.87	37.12	14.66	55.92	105	214	A	V
		15810	52.93	-21.07	74	51.14	41.44	16.53	56.18	75	286	P	V
		15810	44.73	-9.27	54	42.94	41.44	16.53	56.18	75	286	A	V
802.11n HT40 CH 62 5310MHz		10620	51.12	-22.88	74	55.22	37.17	14.68	55.95	108	243	P	H
		10620	41.6	-12.4	54	45.7	37.17	14.68	55.95	108	243	A	H
		15930	54.31	-19.69	74	51.9	41.73	16.62	55.94	135	174	P	H
		15930	44.78	-9.22	54	42.37	41.73	16.62	55.94	135	174	A	H
		10620	51.14	-22.86	74	55.24	37.17	14.68	55.95	102	336	P	V
		10620	42.68	-11.32	54	46.78	37.17	14.68	55.95	102	336	A	V
		15930	54.2	-19.8	74	51.79	41.73	16.62	55.94	56	238	P	V
		15930	45.1	-8.9	54	42.69	41.73	16.62	55.94	56	238	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 (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		5135.46	50.02	-23.98	74	37.9	33.85	11.37	33.1	100	36	P	H
		5148.2	41.8	-12.2	54	29.66	33.87	11.37	33.1	100	36	A	H
	*	5290	86.85	-	-	74.24	34.05	11.66	33.1	100	36	P	H
	*	5290	80.54	-	-	67.93	34.05	11.66	33.1	100	36	A	H
		5452.8	51.83	-22.17	74	38.83	34.26	11.84	33.1	100	36	P	H
		5384.88	42.36	-11.64	54	29.54	34.18	11.74	33.1	100	36	A	H
		5142.22	50.05	-23.95	74	37.91	33.87	11.37	33.1	281	5	P	V
		5142.48	41.78	-12.22	54	29.64	33.87	11.37	33.1	281	5	A	V
	*	5290	90.04	-	-	77.43	34.05	11.66	33.1	281	5	P	V
	*	5290	83.07	-	-	70.46	34.05	11.66	33.1	281	5	A	V
		5400.96	51.8	-22.2	74	38.92	34.2	11.78	33.1	281	5	P	V
		5366.16	42.67	-11.33	54	29.88	34.15	11.74	33.1	281	5	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	49.88	-24.12	74	54	37.15	14.67	55.94	150	220	P	H
		10580	41.34	-12.66	54	45.46	37.15	14.67	55.94	150	220	A	H
		15870	53.49	-20.51	74	51.36	41.61	16.56	56.04	168	345	P	H
		15870	44.81	-9.19	54	42.68	41.61	16.56	56.04	168	345	A	H
		10580	51.03	-22.97	74	55.15	37.15	14.67	55.94	150	220	P	V
		10580	41.24	-12.76	54	45.36	37.15	14.67	55.94	150	220	A	V
		15870	54.42	-19.58	74	52.29	41.61	16.56	56.04	168	345	P	V
		15870	44.92	-9.08	54	42.79	41.61	16.56	56.04	168	345	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 VHT160 (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 VHT160 CH 50 5250MHz		5121.16	60.12	-13.88	74	48.02	33.83	11.37	33.1	100	36	P	H
		5120.64	51.45	-2.55	54	39.35	33.83	11.37	33.1	100	36	A	H
		5250	86.92	-	-	74.4	34	11.62	33.1	100	36	P	H
		5250	80.78	-	-	68.26	34	11.62	33.1	100	36	A	H
		5400.24	57.42	-16.58	74	44.54	34.2	11.78	33.1	100	36	P	H
		5400.72	47.5	-6.5	54	34.62	34.2	11.78	33.1	100	36	A	H
		5120.38	57.87	-16.13	74	45.77	33.83	11.37	33.1	135	0	P	V
		5120.38	50.42	-3.58	54	38.32	33.83	11.37	33.1	135	0	A	V
		5250	90.7	-	-	78.18	34	11.62	33.1	135	0	P	V
		5250	84.89	-	-	72.37	34	11.62	33.1	135	0	A	V
		5396.16	58.66	-15.34	74	45.78	34.2	11.78	33.1	135	0	P	V
		5400.48	50.09	-3.91	54	37.21	34.2	11.78	33.1	135	0	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 VHT160 (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 VHT160 CH 50 5250MHz		10500	49.76	-24.24	74	53.91	37.1	14.65	55.9	150	220	P	H
		10500	43.52	-10.48	54	47.67	37.1	14.65	55.9	150	220	A	H
		15750	52.52	-21.48	74	51	41.32	16.48	56.28	159	345	P	H
		15750	46.09	-7.91	54	44.57	41.32	16.48	56.28	159	345	A	H
		10500	50.4	-23.6	74	54.55	37.1	14.65	55.9	150	220	P	V
		10500	43	-11	54	47.15	37.1	14.65	55.9	150	220	A	V
		15750	52.31	-21.69	74	50.79	41.32	16.48	56.28	159	345	P	V
		15750	46.28	-7.72	54	44.76	41.32	16.48	56.28	159	345	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5468.08	51.44	-22.56	74	38.36	34.28	11.9	33.1	100	37	P	H
		5467.28	41.06	-12.94	54	27.98	34.28	11.9	33.1	100	37	A	H
	*	5500	95.19	-	-	82.06	34.33	11.9	33.1	100	37	P	H
	*	5500	90.22	-	-	77.09	34.33	11.9	33.1	100	37	A	H
													H
													H
		5468.88	51.9	-22.1	74	38.82	34.28	11.9	33.1	215	8	P	V
		5461.52	41.69	-12.31	54	28.69	34.26	11.84	33.1	215	8	A	V
	*	5500	99.69	-	-	86.56	34.33	11.9	33.1	215	8	P	V
	*	5500	93.23	-	-	80.1	34.33	11.9	33.1	215	8	A	V
													V
													V
802.11a CH 116 5580MHz		5365.6	50.7	-23.3	74	37.91	34.15	11.74	33.1	100	37	P	H
		5426.8	42	-12	54	29.04	34.22	11.84	33.1	100	37	A	H
	*	5580	101.74	-	-	88.4	34.41	12.03	33.1	100	37	P	H
	*	5580	95.75	-	-	82.41	34.41	12.03	33.1	100	37	A	H
		5737.595	50.76	-23.24	74	36.9	34.45	12.51	33.1	100	37	P	H
		5733.815	42.42	-11.58	54	28.55	34.46	12.51	33.1	100	37	A	H
		5426.8	51.87	-22.13	74	38.91	34.22	11.84	33.1	220	17	P	V
		5426.32	43.17	-10.83	54	30.27	34.22	11.78	33.1	220	17	A	V
	*	5580	105.66	-	-	92.32	34.41	12.03	33.1	220	17	P	V
	*	5580	99.68	-	-	86.34	34.41	12.03	33.1	220	17	A	V
		5733.815	52.58	-21.42	74	38.71	34.46	12.51	33.1	220	17	P	V
		5734.13	44.46	-9.54	54	30.59	34.46	12.51	33.1	220	17	A	V

802.11a CH 140 5700MHz	*	5700	94.51	-	-	80.62	34.48	12.51	33.1	111	49	P	H
	*	5700	88.52	-	-	74.63	34.48	12.51	33.1	111	49	A	H
		5726.44	51.83	-22.17	74	37.96	34.46	12.51	33.1	111	49	P	H
		5727.32	42.08	-11.92	54	28.21	34.46	12.51	33.1	111	49	A	H
													H
													H
	*	5700	99.34	-	-	85.45	34.48	12.51	33.1	221	18	P	V
	*	5700	93.54	-	-	79.65	34.48	12.51	33.1	221	18	A	V
		5730.12	53.47	-20.53	74	39.6	34.46	12.51	33.1	221	18	P	V
		5725.64	42.97	-11.03	54	29.1	34.46	12.51	33.1	221	18	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	49.77	-24.23	74	53.71	37.4	14.76	56.1	163	230	P	H
		11000	41.68	-12.32	54	45.62	37.4	14.76	56.1	163	230	A	H
		16500	55.68	-18.32	74	51.26	43.27	17.2	56.05	178	296	P	H
		16500	47.19	-6.81	54	42.77	43.27	17.2	56.05	178	296	A	H
		11000	50.04	-23.96	74	53.98	37.4	14.76	56.1	163	230	P	V
		11000	41.84	-12.16	54	45.78	37.4	14.76	56.1	163	230	A	V
		16500	53.59	-20.41	74	49.17	43.27	17.2	56.05	178	296	P	V
		16500	47.14	-6.86	54	42.72	43.27	17.2	56.05	178	296	A	V
802.11a CH 116 5580MHz		11160	50.62	-23.38	74	54.16	37.5	14.81	55.85	170	200	P	H
		11160	41	-13	54	44.54	37.5	14.81	55.85	170	200	A	H
		16740	55.66	-18.34	74	50.41	43.91	17.51	56.17	156	350	P	H
		16740	46.14	-7.86	54	40.89	43.91	17.51	56.17	156	350	A	H
		11160	50.81	-23.19	74	54.35	37.5	14.81	55.85	170	200	P	V
		11160	41.91	-12.09	54	45.45	37.5	14.81	55.85	170	200	A	V
		16740	54.17	-19.83	74	48.92	43.91	17.51	56.17	156	350	P	V
		16740	45.7	-8.3	54	40.45	43.91	17.51	56.17	156	350	A	V
802.11a CH 140 5700MHz		11400	51.57	-22.43	74	54.56	37.64	14.86	55.49	157	285	P	H
		11400	43.02	-10.98	54	46.01	37.64	14.86	55.49	157	285	A	H
		17100	58.08	-15.92	74	52.26	44.29	17.91	56.38	165	246	P	H
		17100	48.44	-5.56	54	42.62	44.29	17.91	56.38	165	246	A	H
		11400	50.93	-23.07	74	53.92	37.64	14.86	55.49	157	285	P	V
		11400	43.09	-10.91	54	46.08	37.64	14.86	55.49	157	285	A	V
		17100	56.6	-17.4	74	50.78	44.29	17.91	56.38	165	246	P	V
		17100	48.13	-5.87	54	42.31	44.29	17.91	56.38	165	246	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 (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)
		5463.6	50.65	-23.35	74	37.63	34.28	11.84	33.1	100	38	P	H
		5467.28	41.63	-12.37	54	28.55	34.28	11.9	33.1	100	38	A	H
	*	5500	92.68	-	-	79.55	34.33	11.9	33.1	100	38	P	H
	*	5500	84.9	-	-	71.77	34.33	11.9	33.1	100	38	A	H
802.11n													H
HT20													H
CH 100		5468.88	51.05	-22.95	74	37.97	34.28	11.9	33.1	274	13	P	V
5500MHz		5469.84	42.13	-11.87	54	29.05	34.28	11.9	33.1	274	13	A	V
	*	5500	95.84	-	-	82.71	34.33	11.9	33.1	274	13	P	V
	*	5500	88.9	-	-	75.77	34.33	11.9	33.1	274	13	A	V
													V
													V
		5401.6	50.48	-23.52	74	37.6	34.2	11.78	33.1	106	49	P	H
		5426.56	41.88	-12.12	54	28.92	34.22	11.84	33.1	106	49	A	H
	*	5580	98.03	-	-	84.69	34.41	12.03	33.1	106	49	P	H
	*	5580	91.79	-	-	78.45	34.41	12.03	33.1	106	49	A	H
802.11n		5748.62	51.14	-22.86	74	37.14	34.45	12.65	33.1	106	49	P	H
HT20		5732.555	42.71	-11.29	54	28.84	34.46	12.51	33.1	106	49	A	H
CH 116		5457.76	50.79	-23.21	74	37.79	34.26	11.84	33.1	358	54	P	V
5580MHz		5427.76	42.18	-11.82	54	29.22	34.22	11.84	33.1	358	54	A	V
	*	5580	102.38	-	-	89.04	34.41	12.03	33.1	358	54	P	V
	*	5580	95.45	-	-	82.11	34.41	12.03	33.1	358	54	A	V
		5734.445	51.07	-22.93	74	37.2	34.46	12.51	33.1	358	54	P	V
		5731.925	43.89	-10.11	54	30.02	34.46	12.51	33.1	358	54	A	V

	*	5700	92.78	-	-	78.89	34.48	12.51	33.1	143	50	P	H
	*	5700	85.77	-	-	71.88	34.48	12.51	33.1	143	50	A	H
		5745.72	52.62	-21.38	74	38.62	34.45	12.65	33.1	143	50	P	H
		5725.16	43	-11	54	29.13	34.46	12.51	33.1	143	50	A	H
802.11n													H
HT20													H
CH 140	*	5700	97.46	-	-	83.57	34.48	12.51	33.1	311	45	P	V
5700MHz	*	5700	90.67	-	-	76.78	34.48	12.51	33.1	311	45	A	V
		5731.8	52.94	-21.06	74	39.07	34.46	12.51	33.1	311	45	P	V
		5727.08	43.55	-10.45	54	29.68	34.46	12.51	33.1	311	45	A	V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	49.41	-24.59	74	53.35	37.4	14.76	56.1	163	230	P	H
		11000	40.18	-13.82	54	44.12	37.4	14.76	56.1	163	230	A	H
802.11n		16500	55	-19	74	50.58	43.27	17.2	56.05	178	296	P	H
HT20		16500	46.2	-7.8	54	41.78	43.27	17.2	56.05	178	296	A	H
CH 100		11000	49.91	-24.09	74	53.85	37.4	14.76	56.1	163	230	P	V
5500MHz		11000	41.79	-12.21	54	45.73	37.4	14.76	56.1	163	230	A	V
		16500	53.94	-20.06	74	49.52	43.27	17.2	56.05	178	296	P	V
		16500	47.3	-6.7	54	42.88	43.27	17.2	56.05	178	296	A	V
		11160	50.76	-23.24	74	54.3	37.5	14.81	55.85	170	200	P	H
		11160	42.17	-11.83	54	45.71	37.5	14.81	55.85	170	200	A	H
802.11n		16740	55.17	-18.83	74	49.92	43.91	17.51	56.17	156	350	P	H
HT20		16740	46.83	-7.17	54	41.58	43.91	17.51	56.17	156	350	A	H
CH 116		11160	50.12	-23.88	74	53.66	37.5	14.81	55.85	170	200	P	V
5580MHz		11160	42.33	-11.67	54	45.87	37.5	14.81	55.85	170	200	A	V
		16740	55.83	-18.17	74	50.58	43.91	17.51	56.17	156	350	P	V
		16740	47.47	-6.53	54	42.22	43.91	17.51	56.17	156	350	A	V
		11400	52.58	-21.42	74	55.57	37.64	14.86	55.49	157	285	P	H
		11400	42.92	-11.08	54	45.91	37.64	14.86	55.49	157	285	A	H
802.11n		17100	57.54	-16.46	74	51.72	44.29	17.91	56.38	165	246	P	H
HT20		17100	48.13	-5.87	54	42.31	44.29	17.91	56.38	165	246	A	H
CH 140		11400	51.62	-22.38	74	54.61	37.64	14.86	55.49	157	285	P	V
5700MHz		11400	43.12	-10.88	54	46.11	37.64	14.86	55.49	157	285	A	V
		17100	56.6	-17.4	74	50.78	44.29	17.91	56.38	165	246	P	V
		17100	48.24	-5.76	54	42.42	44.29	17.91	56.38	165	246	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 (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)
		5361.04	50.5	-23.5	74	37.71	34.15	11.74	33.1	138	50	P	H
		5467.6	42.36	-11.64	54	29.28	34.28	11.9	33.1	138	50	A	H
	*	5510	88.58	-	-	75.38	34.33	11.97	33.1	138	50	P	H
	*	5510	82.64	-	-	69.44	34.33	11.97	33.1	138	50	A	H
802.11n		5727.2	51.12	-22.88	74	37.25	34.46	12.51	33.1	138	50	P	H
HT40		5726.255	43.28	-10.72	54	29.41	34.46	12.51	33.1	138	50	A	H
CH 102		5361.76	51.97	-22.03	74	39.18	34.15	11.74	33.1	112	10	P	V
5510MHz		5366.8	43.43	-10.57	54	30.64	34.15	11.74	33.1	112	10	A	V
	*	5510	92.16	-	-	78.96	34.33	11.97	33.1	112	10	P	V
	*	5510	86.6	-	-	73.4	34.33	11.97	33.1	112	10	A	V
		5738.54	50.78	-23.22	74	36.78	34.45	12.65	33.1	112	10	P	V
		5735.39	43.37	-10.63	54	29.51	34.45	12.51	33.1	112	10	A	V
		5403.52	50.42	-23.58	74	37.54	34.2	11.78	33.1	131	50	P	H
		5406.88	43.09	-10.91	54	30.21	34.2	11.78	33.1	131	50	A	H
	*	5550	96.9	-	-	83.58	34.39	12.03	33.1	131	50	P	H
	*	5550	90.35	-	-	77.03	34.39	12.03	33.1	131	50	A	H
802.11n		5756.18	50.55	-23.45	74	36.55	34.45	12.65	33.1	131	50	P	H
HT40		5726.57	43.27	-10.73	54	29.4	34.46	12.51	33.1	131	50	A	H
CH 110		5405.92	51.32	-22.68	74	38.44	34.2	11.78	33.1	118	16	P	V
5550MHz		5405.2	44.51	-9.49	54	31.63	34.2	11.78	33.1	118	16	A	V
	*	5550	99.34	-	-	86.02	34.39	12.03	33.1	118	16	P	V
	*	5550	93.28	-	-	79.96	34.39	12.03	33.1	118	16	A	V
		5727.2	51.34	-22.66	74	37.47	34.46	12.51	33.1	118	16	P	V
		5725	43.88	-10.12	54	30.01	34.46	12.51	33.1	118	16	A	V

		5441.35	49.96	-24.04	74	36.98	34.24	11.84	33.1	123	48	P	H
		5469	42.02	-11.98	54	28.94	34.28	11.9	33.1	123	48	A	H
	*	5670	95.88	-	-	82.13	34.48	12.37	33.1	123	48	P	H
	*	5670	90.15	-	-	76.4	34.48	12.37	33.1	123	48	A	H
802.11n		5751.7	51.86	-22.14	74	37.86	34.45	12.65	33.1	123	48	P	H
HT40		5725.8	44.5	-9.5	54	30.63	34.46	12.51	33.1	123	48	A	H
CH 134		5422.1	50.15	-23.85	74	37.25	34.22	11.78	33.1	100	15	P	V
5670MHz		5454.3	42.1	-11.9	54	29.1	34.26	11.84	33.1	100	15	A	V
	*	5670	99.77	-	-	86.02	34.48	12.37	33.1	100	15	P	V
	*	5670	94.81	-	-	81.06	34.48	12.37	33.1	100	15	A	V
		5725.275	56.43	-17.57	74	42.56	34.46	12.51	33.1	100	15	P	V
		5729.475	46.17	-7.83	54	32.3	34.46	12.51	33.1	100	15	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)
		11020	50.43	-23.57	74	54.32	37.41	14.77	56.07	170	230	P	H
		11020	41.86	-12.14	54	45.75	37.41	14.77	56.07	170	230	A	H
802.11n		16530	57.31	-16.69	74	52.77	43.36	17.25	56.07	75	143	P	H
HT40		16530	47.4	-6.6	54	42.86	43.36	17.25	56.07	75	143	A	H
CH 102		11020	50.27	-23.73	74	54.16	37.41	14.77	56.07	86	183	P	V
5510MHz		11020	41.06	-12.94	54	44.95	37.41	14.77	56.07	86	183	A	V
		16530	55.36	-18.64	74	50.82	43.36	17.25	56.07	176	258	P	V
		16530	46.19	-7.81	54	41.65	43.36	17.25	56.07	176	258	A	V
		11100	51.17	-22.83	74	54.87	37.46	14.79	55.95	134	248	P	H
		11100	41.59	-12.41	54	45.29	37.46	14.79	55.95	134	248	A	H
802.11n		16650	55.22	-18.78	74	50.29	43.68	17.38	56.13	128	268	P	H
HT40		16650	46.21	-7.79	54	41.28	43.68	17.38	56.13	128	268	A	H
CH 110		11100	50.45	-23.55	74	54.15	37.46	14.79	55.95	88	247	P	V
5550MHz		11100	41.58	-12.42	54	45.28	37.46	14.79	55.95	88	247	A	V
		16650	55.41	-18.59	74	50.48	43.68	17.38	56.13	174	261	P	V
		16650	46.68	-7.32	54	41.75	43.68	17.38	56.13	174	261	A	V
		11340	52.94	-21.06	74	56.09	37.6	14.84	55.59	114	253	P	H
		11340	44.11	-9.89	54	47.26	37.6	14.84	55.59	114	253	A	H
802.11n		17010	56.92	-17.08	74	50.86	44.55	17.82	56.31	143	251	P	H
HT40		17010	47.81	-6.19	54	41.75	44.55	17.82	56.31	143	251	A	H
CH 134		11340	51.11	-22.89	74	54.26	37.6	14.84	55.59	200	360	P	V
5670MHz		11340	41.97	-12.03	54	45.12	37.6	14.84	55.59	200	360	A	V
		17010	58.29	-15.71	74	52.23	44.55	17.82	56.31	212	136	P	V
		17010	47.23	-6.77	54	41.17	44.55	17.82	56.31	212	136	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+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)
		5468.08	51.34	-22.66	74	38.26	34.28	11.9	33.1	110	32	P	H
		5467.12	42.77	-11.23	54	29.69	34.28	11.9	33.1	110	32	A	H
	*	5530	86.26	-	-	73.04	34.35	11.97	33.1	110	32	P	H
	*	5530	80.78	-	-	67.56	34.35	11.97	33.1	110	32	A	H
802.11ac		5744.84	51.18	-22.82	74	37.18	34.45	12.65	33.1	110	32	P	H
VHT80		5739.8	43.36	-10.64	54	29.36	34.45	12.65	33.1	110	32	A	H
CH 106		5470	51.61	-22.39	74	38.53	34.28	11.9	33.1	256	21	P	V
5530MHz		5461.12	43.83	-10.17	54	30.83	34.26	11.84	33.1	256	21	A	V
	*	5530	89.88	-	-	76.66	34.35	11.97	33.1	256	21	P	V
	*	5530	83.45	-	-	70.23	34.35	11.97	33.1	256	21	A	V
		5763.74	50.65	-23.35	74	36.65	34.45	12.65	33.1	256	21	P	V
		5737.60	43.34	-10.66	54	29.48	34.45	12.51	33.1	256	21	A	V
		5420.56	51.45	-22.55	74	38.55	34.22	11.78	33.1	100	35	P	H
		5453.68	42.11	-11.89	54	29.11	34.26	11.84	33.1	100	35	A	H
	*	5610	87.47	-	-	74.02	34.46	12.09	33.1	100	35	P	H
	*	5610	80.94	-	-	67.49	34.46	12.09	33.1	100	35	A	H
802.11ac		5731.61	50.79	-23.21	74	36.92	34.46	12.51	33.1	100	35	P	H
VHT80		5731.93	43.23	-10.77	54	29.36	34.46	12.51	33.1	100	35	A	H
CH 122		5430.4	50.36	-23.64	74	37.38	34.24	11.84	33.1	215	17	P	V
5610MHz		5461.6	42.24	-11.76	54	29.24	34.26	11.84	33.1	215	17	A	V
	*	5610	90.82	-	-	77.37	34.46	12.09	33.1	215	17	P	V
	*	5610	84.3	-	-	70.85	34.46	12.09	33.1	215	17	A	V
		5736.65	51.72	-22.28	74	37.86	34.45	12.51	33.1	215	17	P	V
		5757.13	43.48	-10.52	54	29.48	34.45	12.65	33.1	215	17	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	49.99	-24.01	74	53.77	37.44	14.78	56	150	200	P	H
		11060	41.54	-12.46	54	45.32	37.44	14.78	56	150	200	A	H
		16590	55.74	-18.26	74	51.01	43.5	17.33	56.1	180	350	P	H
		16590	45.87	-8.13	54	41.14	43.5	17.33	56.1	180	350	A	H
		11060	49.63	-24.37	74	53.41	37.44	14.78	56	150	200	P	V
		11060	41.48	-12.52	54	45.26	37.44	14.78	56	150	200	A	V
		16590	55.14	-18.86	74	50.41	43.5	17.33	56.1	180	350	P	V
		16590	45.7	-8.3	54	40.97	43.5	17.33	56.1	180	350	A	V
802.11ac VHT80 CH 122 5610MHz		11220	50.07	-23.93	74	53.49	37.53	14.82	55.77	200	360	P	H
		11220	41.31	-12.69	54	44.73	37.53	14.82	55.77	200	360	A	H
		16830	56.53	-17.47	74	51.01	44.14	17.6	56.22	200	360	P	H
		16830	47.49	-6.51	54	41.97	44.14	17.6	56.22	200	360	A	H
		11220	50.12	-23.88	74	53.54	37.53	14.82	55.77	200	360	P	V
		11220	41.54	-12.46	54	44.96	37.53	14.82	55.77	200	360	A	V
		16830	54.36	-19.64	74	48.84	44.14	17.6	56.22	200	360	P	V
		16830	47.17	-6.83	54	41.65	44.14	17.6	56.22	200	360	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 VHT160 (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 VHT160 CH 144 5570MHz		5441.68	55.62	-18.38	74	42.64	34.24	11.84	33.1	100	31	P	H
		5435.92	47.49	-6.51	54	34.51	34.24	11.84	33.1	100	31	A	H
		5570	86.33	-	-	72.99	34.41	12.03	33.1	100	31	P	H
		5570	80.86	-	-	67.52	34.41	12.03	33.1	100	31	A	H
		5748.38	52.03	-21.97	74	38.03	34.45	12.65	33.1	100	31	P	H
		5727.9	45.96	-8.04	54	32.09	34.46	12.51	33.1	100	31	A	H
		5441.44	60.91	-13.09	74	47.93	34.24	11.84	33.1	115	19	P	V
		5436.16	52	-2	54	39.02	34.24	11.84	33.1	115	19	A	V
		5570	91.12	-	-	77.78	34.41	12.03	33.1	115	19	P	V
		5570	85.66	-	-	72.32	34.41	12.03	33.1	115	19	A	V
		5728.43	56.65	-17.35	74	42.78	34.46	12.51	33.1	115	19	P	V
		5727.55	47.92	-6.08	54	34.05	34.46	12.51	33.1	115	19	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 VHT160 (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 VHT160 CH 144 5570MHz		11140	51.35	-22.65	74	54.97	37.48	14.8	55.9	170	200	P	H
		11140	42.9	-11.1	54	46.52	37.48	14.8	55.9	170	200	A	H
		16710	54.85	-19.15	74	49.72	43.82	17.47	56.16	156	350	P	H
		16710	47.28	-6.72	54	42.15	43.82	17.47	56.16	156	350	A	H
		11140	50.4	-23.6	74	54.02	37.48	14.8	55.9	170	200	P	V
		11140	42.86	-11.14	54	46.48	37.48	14.8	55.9	170	200	A	V
		16710	56.11	-17.89	74	50.98	43.82	17.47	56.16	156	350	P	V
		16710	47.5	-6.5	54	42.37	43.82	17.47	56.16	156	350	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 11ac VHT160 (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 VHT160 LF		30.97	23.34	-16.66	40	30.98	23.71	0.25	31.6	-	-	P	H
		98.87	22.99	-20.51	43.5	37.07	16.58	0.84	31.5	-	-	P	H
		174.53	21.43	-22.07	43.5	35.84	15.43	1.45	31.29	-	-	P	H
		263.77	22.29	-23.71	46	31.62	19.79	1.91	31.03	-	-	P	H
		581.93	29.17	-16.83	46	32.94	24.48	2.95	31.2	-	-	P	H
		881.66	30.26	-15.74	46	31.18	26.61	3.77	31.3	100	144	P	H
													H
													H
													H
													H
													H
													H
		42.61	24.08	-15.92	40	38.2	17.17	0.41	31.7	-	-	P	V
		96.93	21.36	-22.14	43.5	35.91	16.14	0.81	31.5	-	-	P	V
		174.53	19.84	-23.66	43.5	34.25	15.43	1.45	31.29	-	-	P	V
		424.79	25.85	-20.15	46	32.32	22.15	2.48	31.1	-	-	P	V
		647.89	30.4	-15.6	46	33.57	24.89	3.14	31.2	120	121	P	V
		898.15	29.94	-16.06	46	30.73	26.69	3.82	31.3	-	-	P	V
		42.61	24.08	-15.92	40	38.2	17.17	0.41	31.7	-	-		V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**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 CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

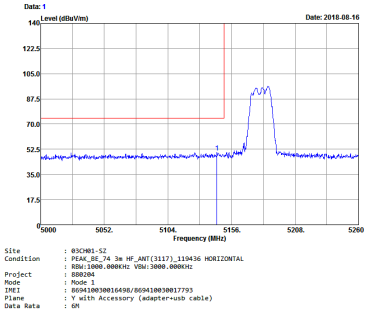
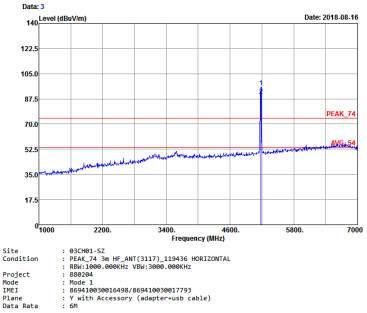
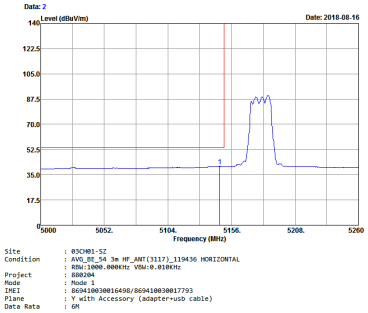
Test Engineer :	Xiaoshi Tan	**Temperature :**	24~25°C
		Relative Humidity :	48~49%

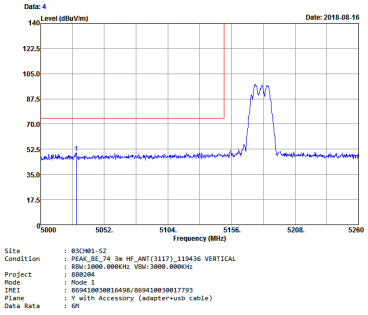
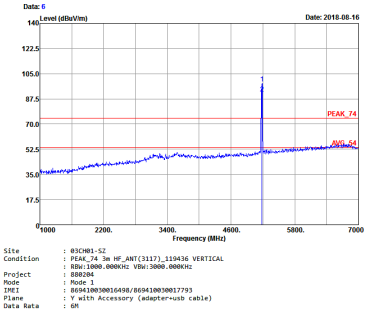
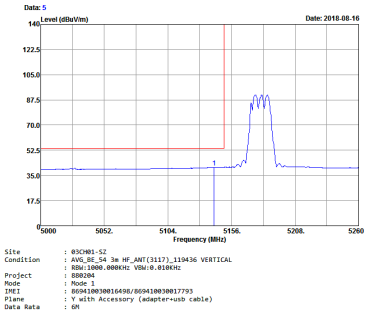
Note symbol

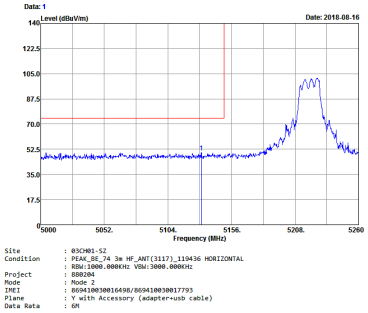
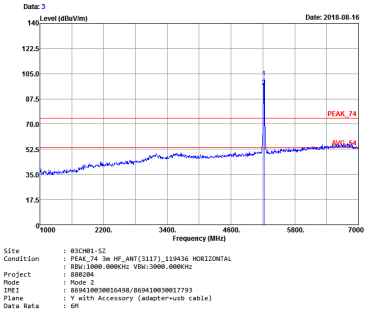
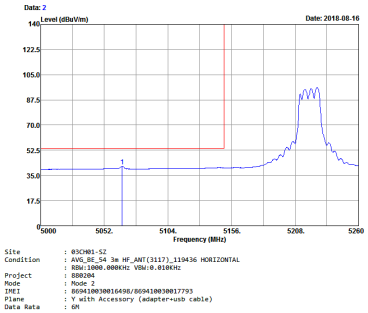
-L	**Low channel location**
-R	**High channel location**

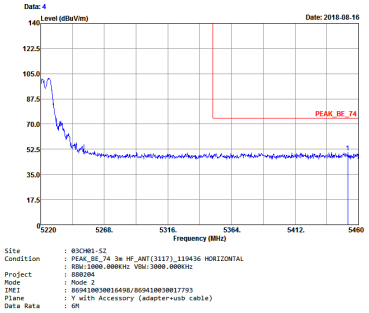
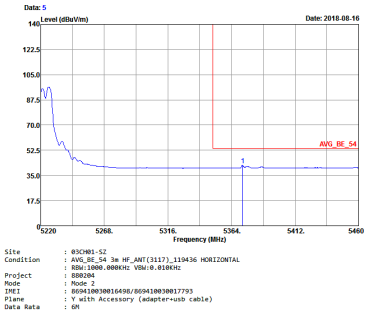
Band 1 - 5150~5250MHz

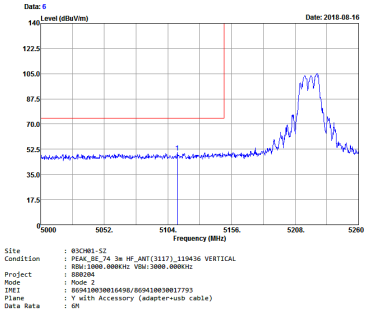
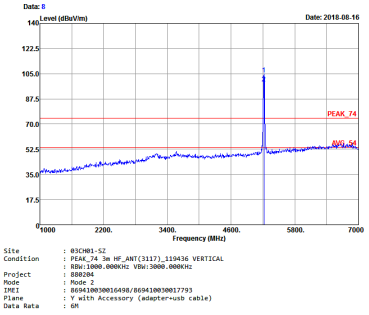
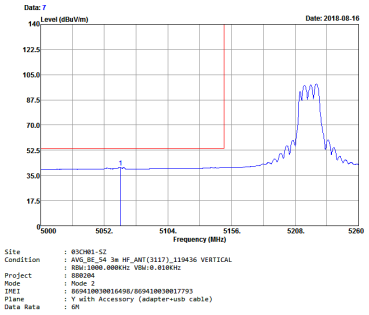
WIFI 802.11a (Band Edge @ 3m)

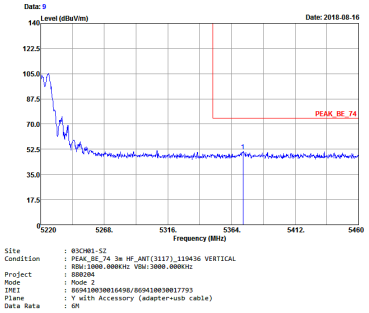
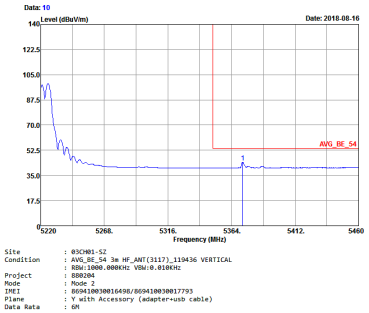
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

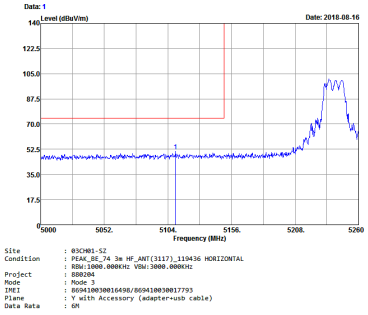
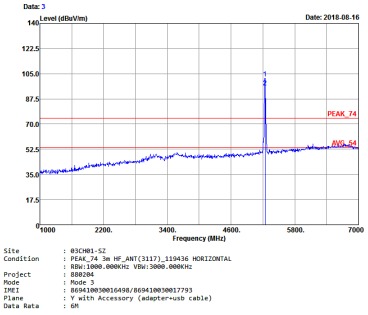
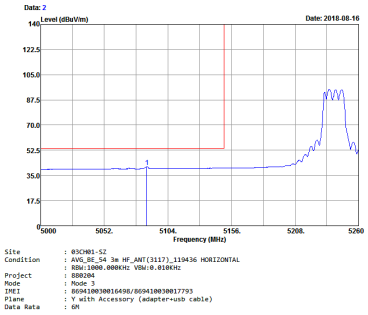
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

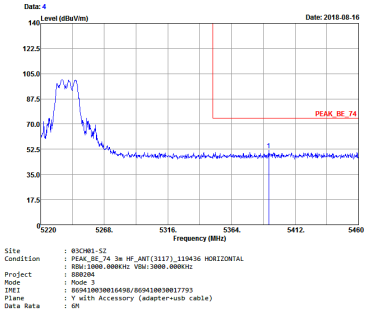
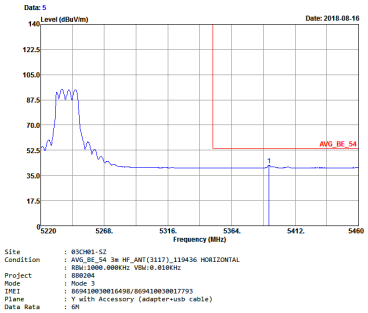
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

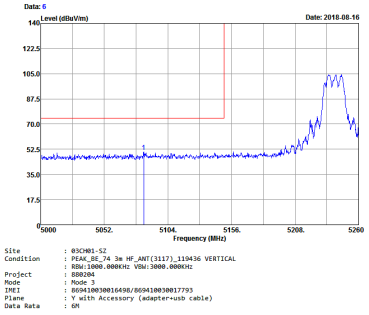
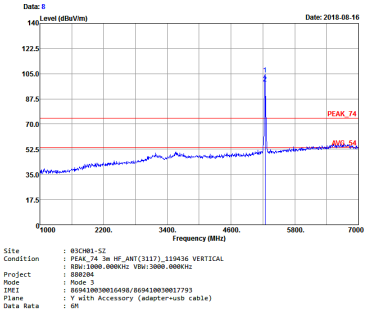
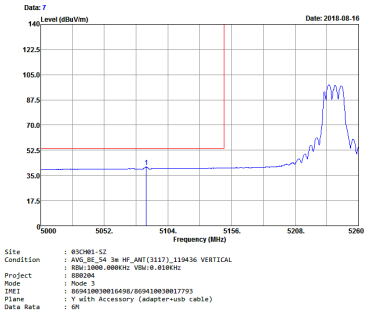
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

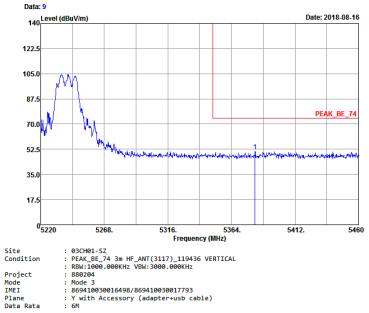
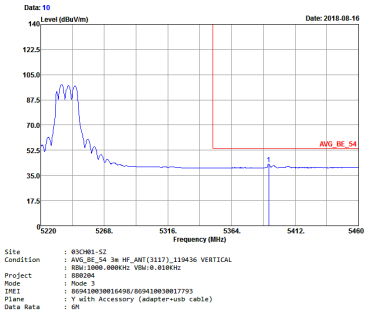
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

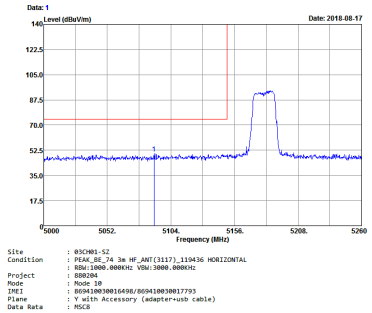
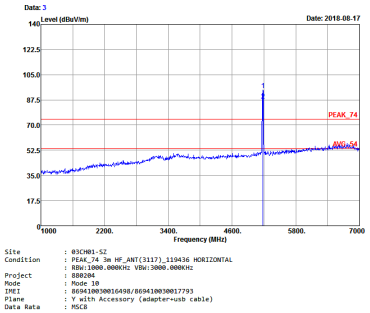
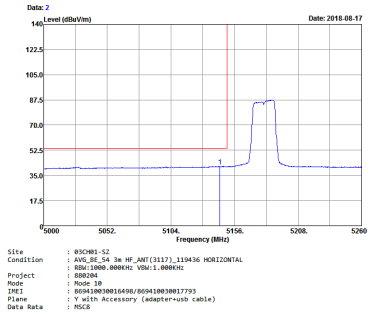
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

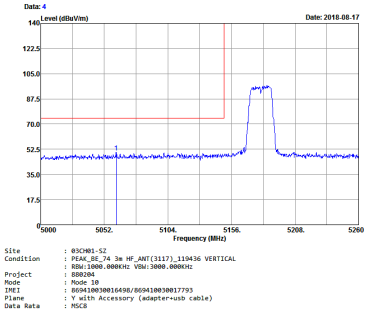
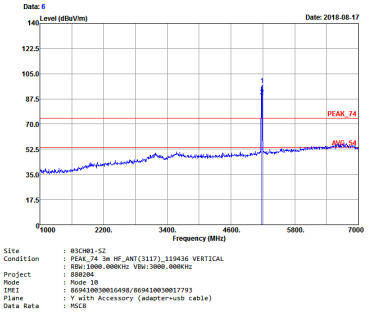
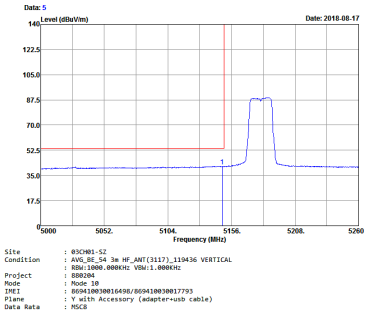
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

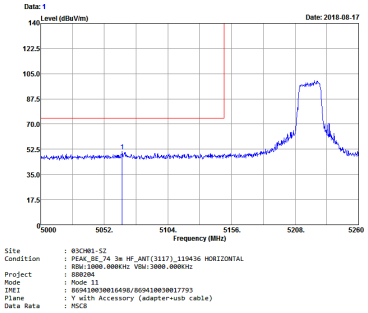
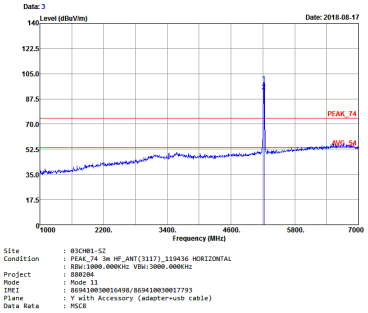
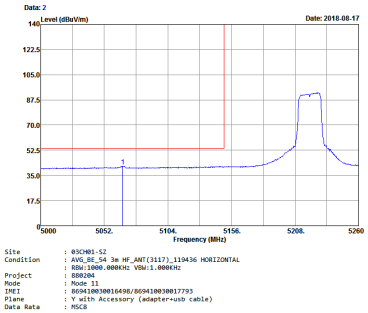
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

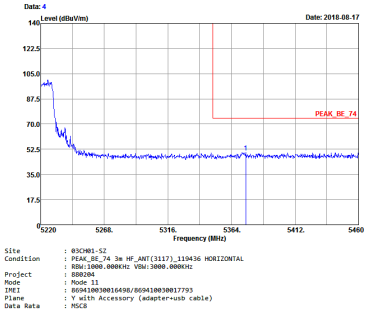
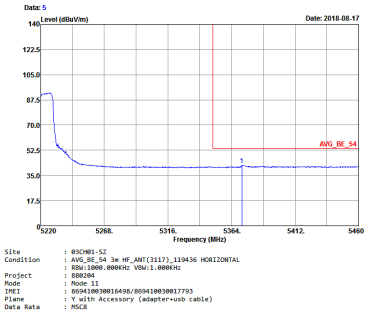
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

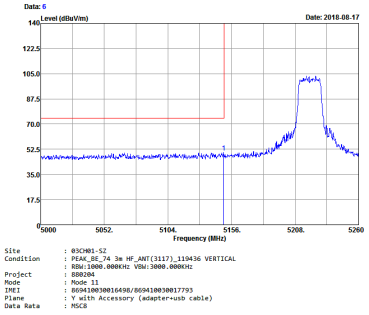
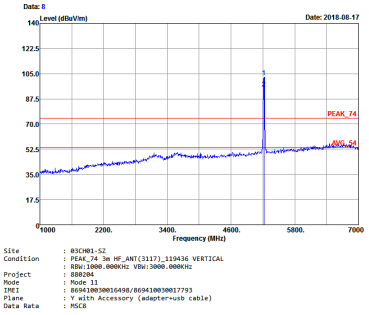
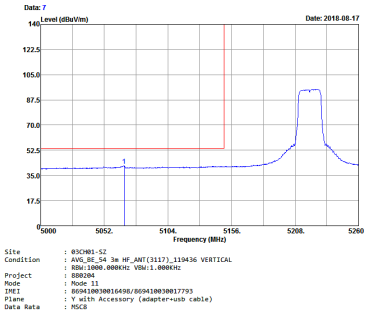
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

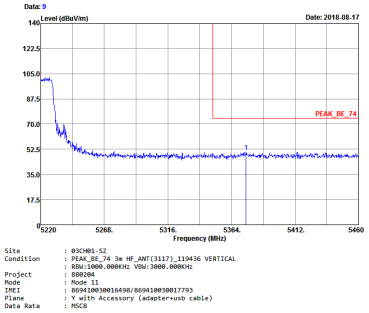
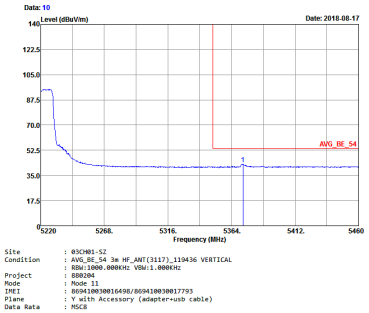
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

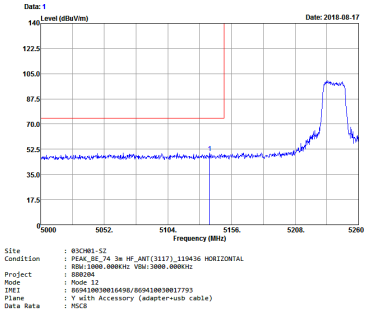
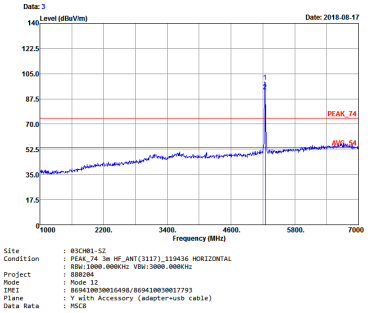
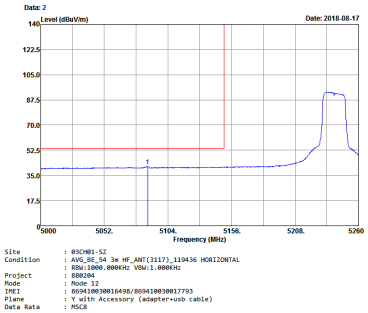
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

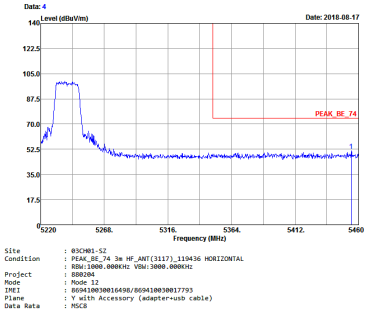
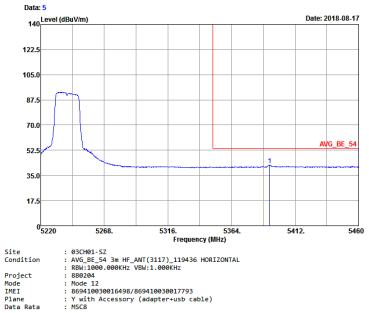
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

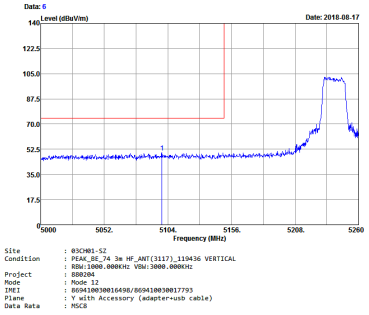
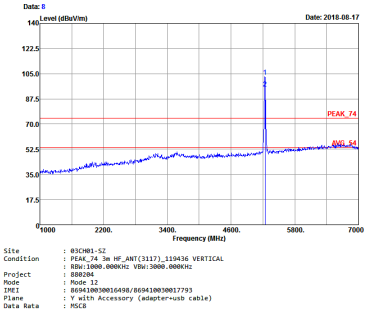
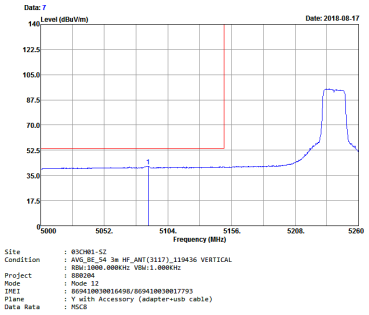
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

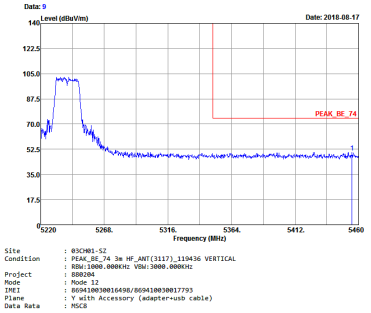
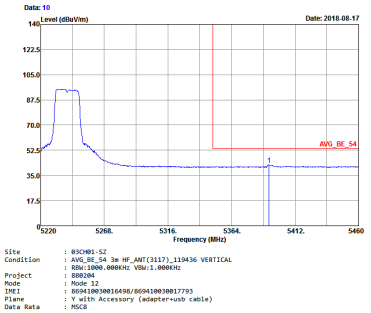
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

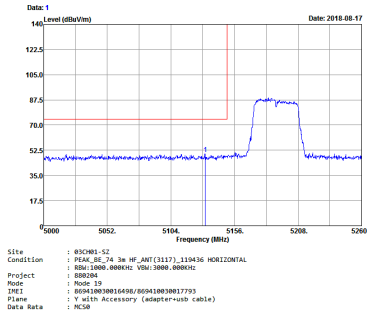
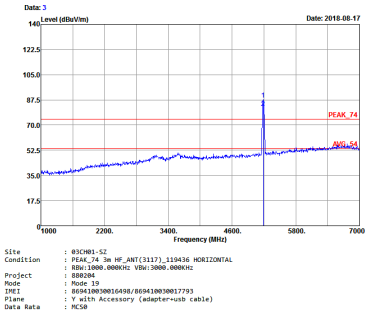
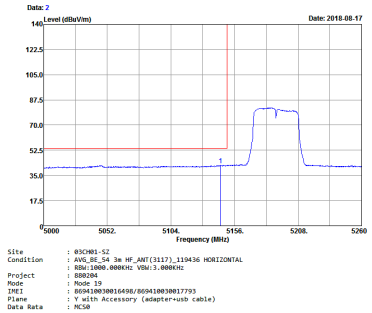
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

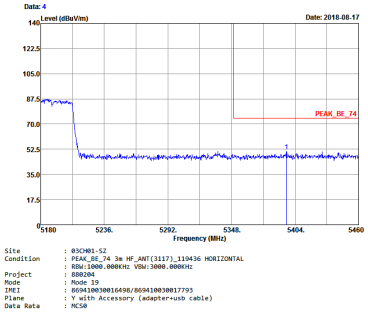
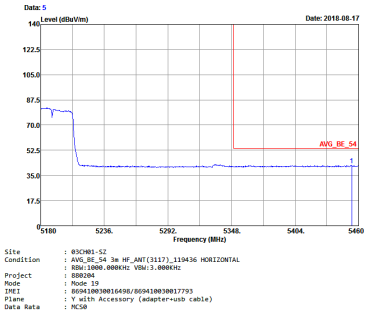
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

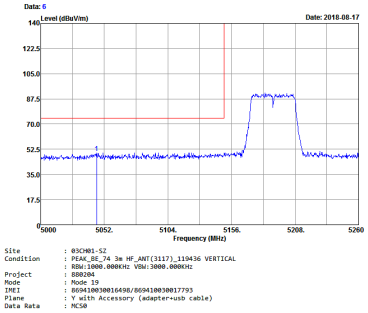
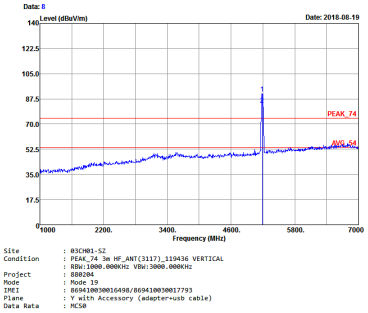
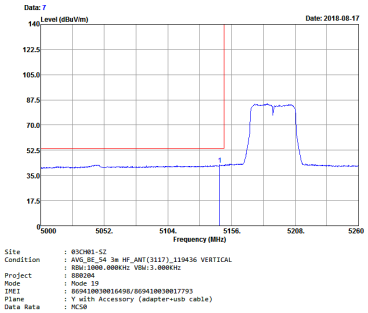
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

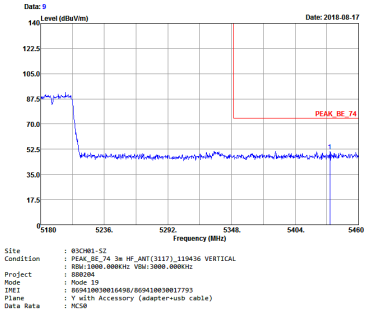
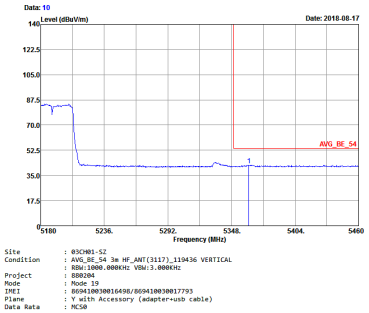
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

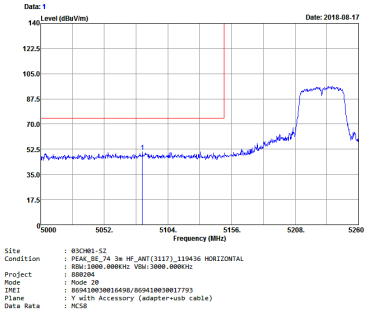
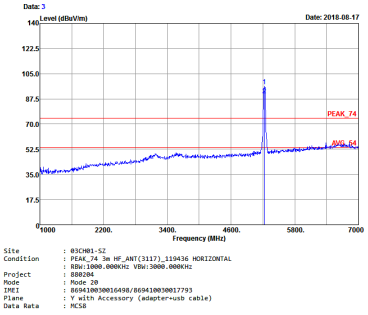
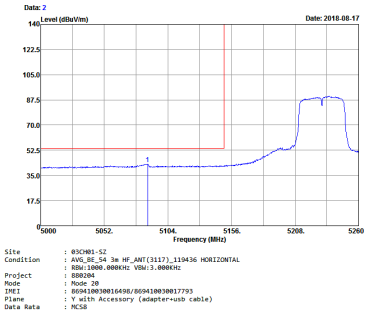
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

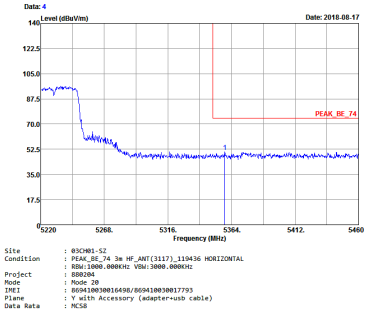
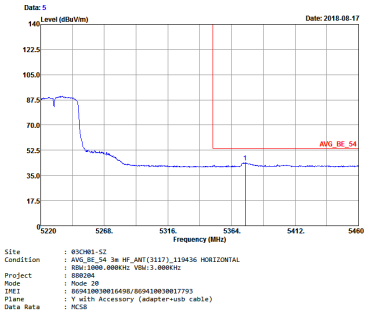
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

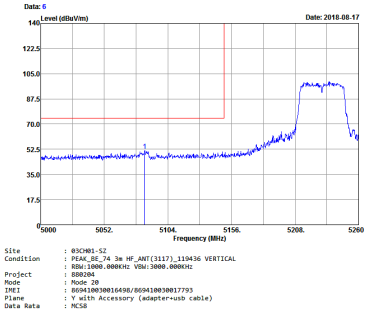
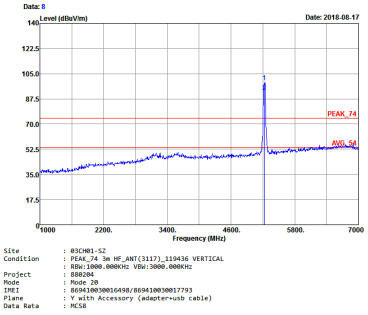
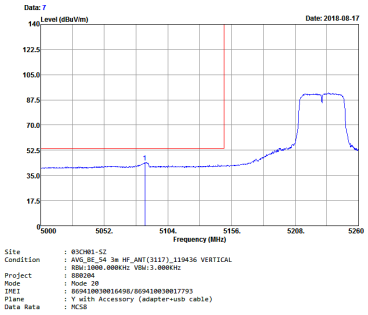
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

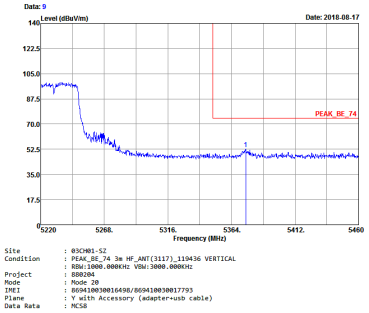
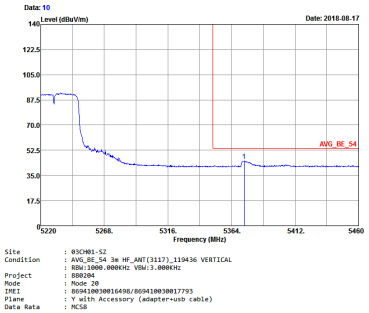
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

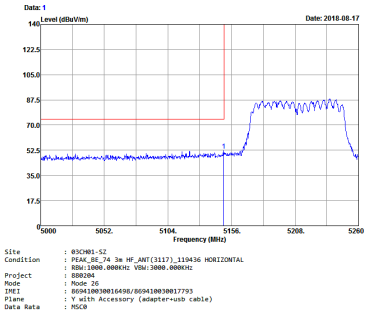
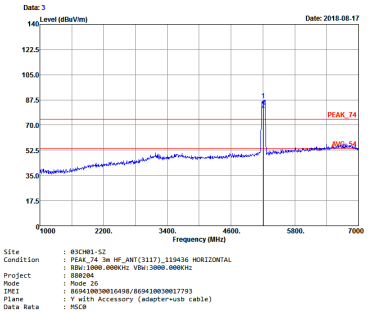
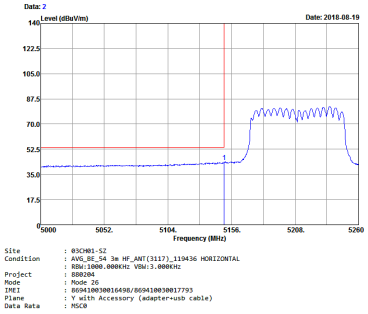
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

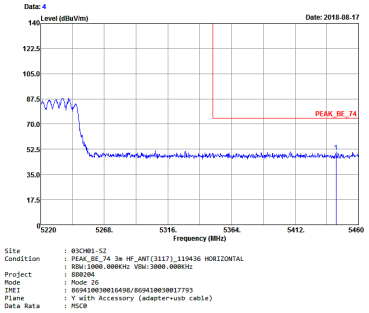
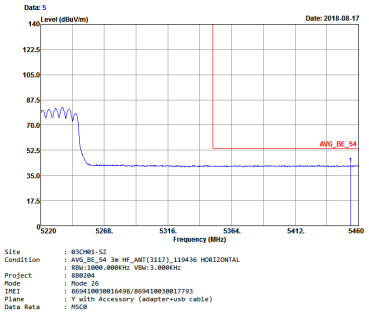
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

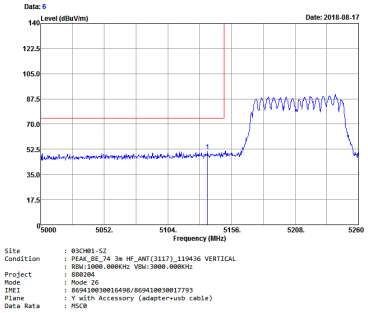
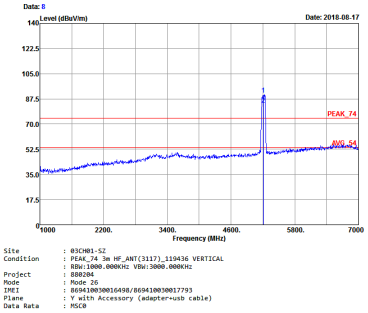
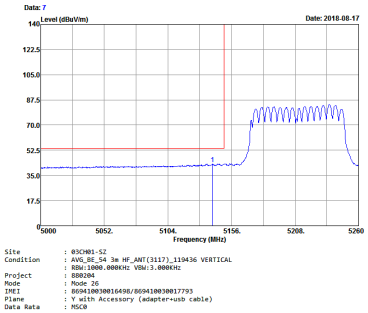
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

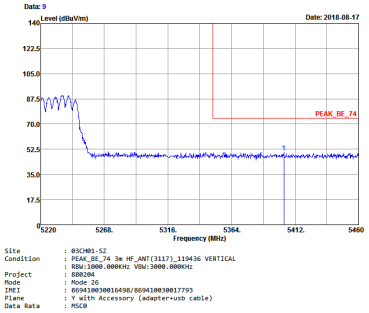
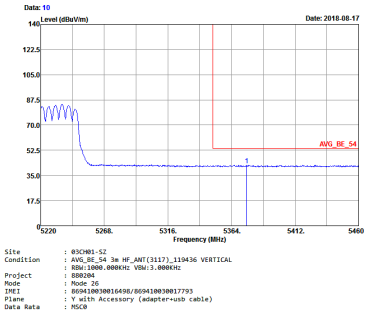
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

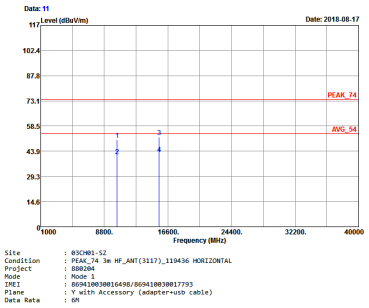
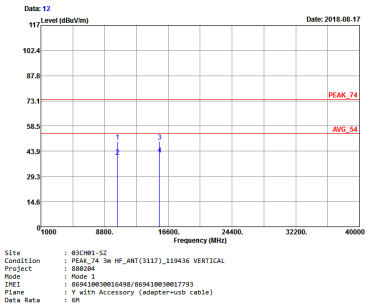
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

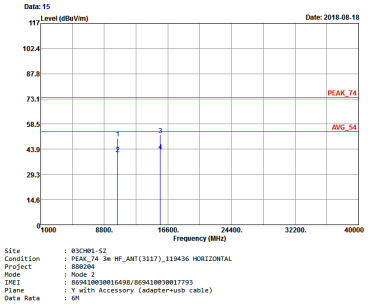
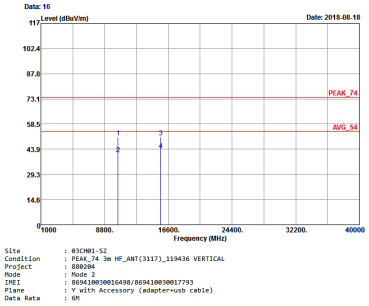
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

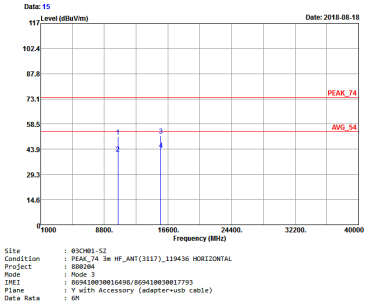
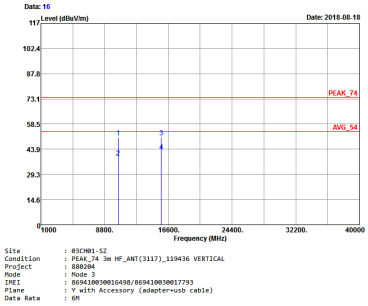
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

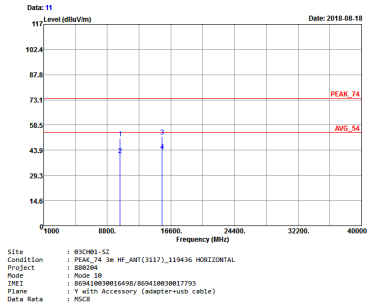
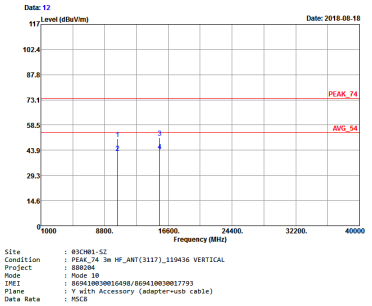
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

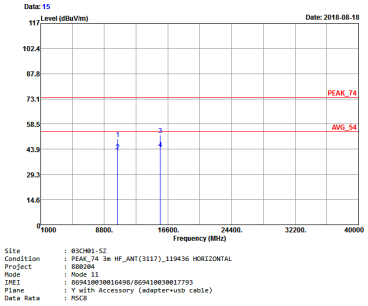
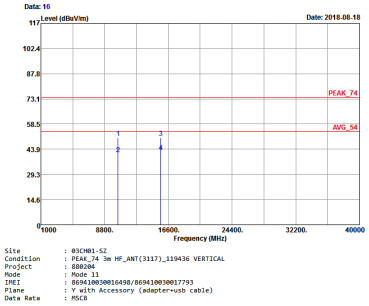
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

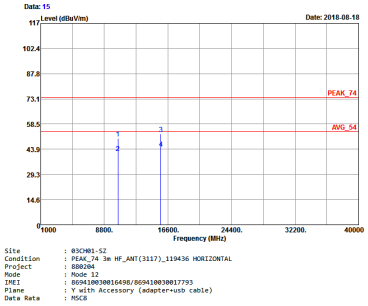
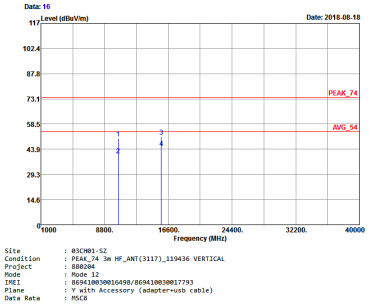
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

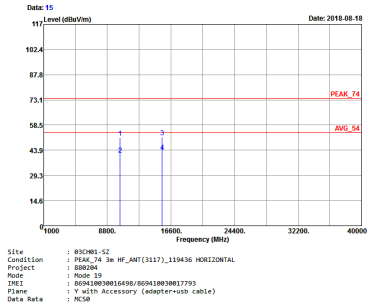
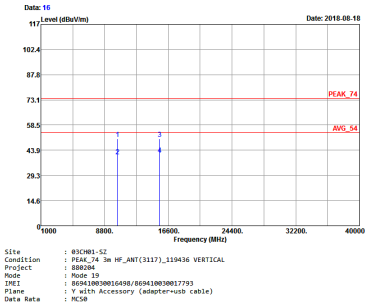
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

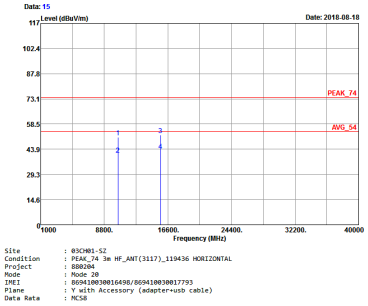
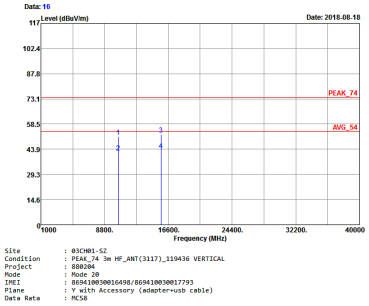
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

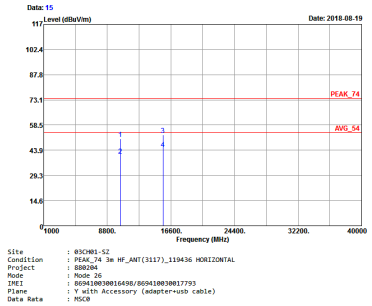
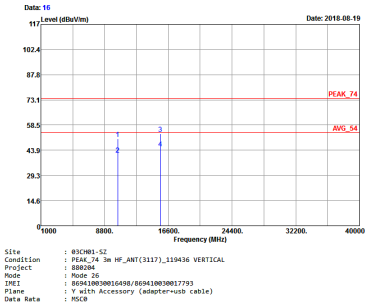
Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.		

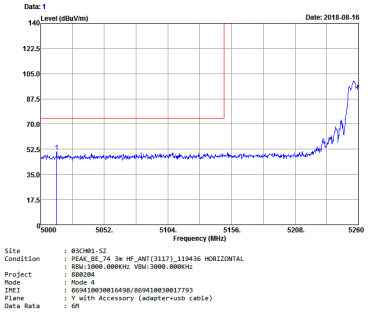
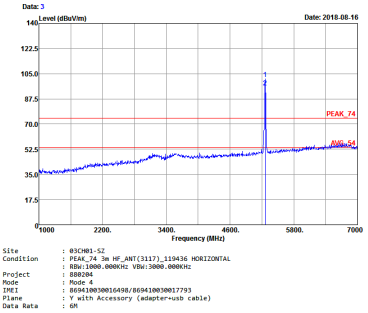
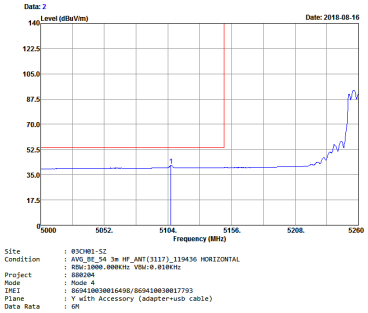
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.		

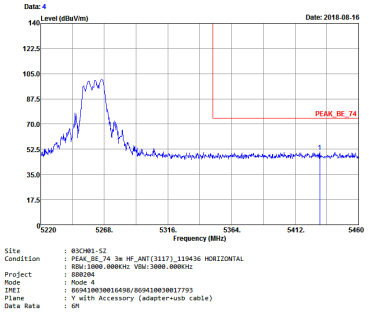
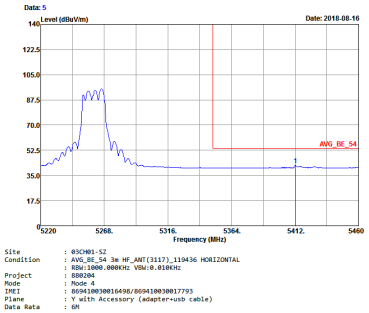
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

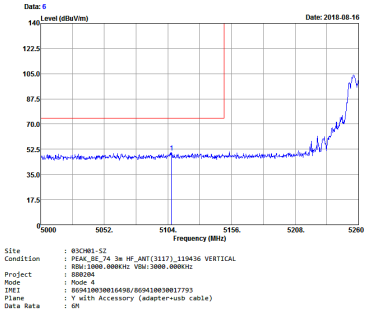
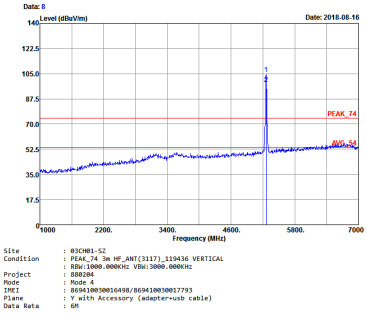
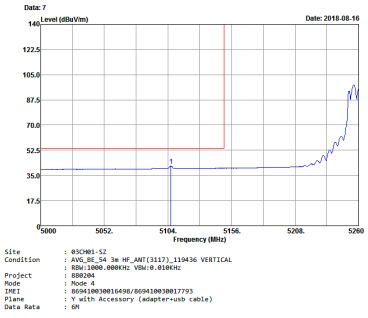
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.		

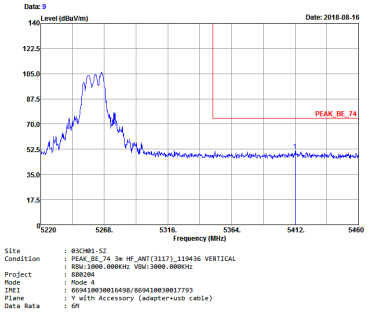
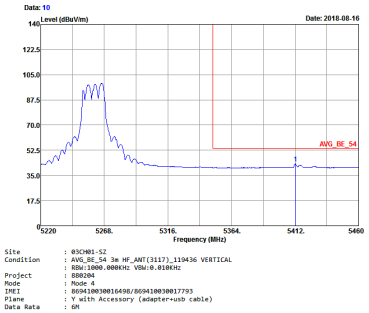
Band 2 - 5250~5350MHz

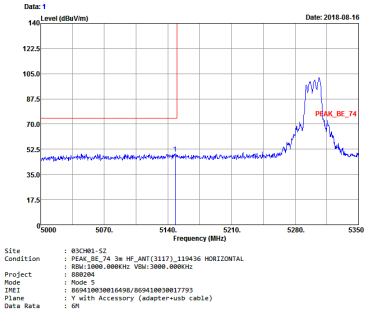
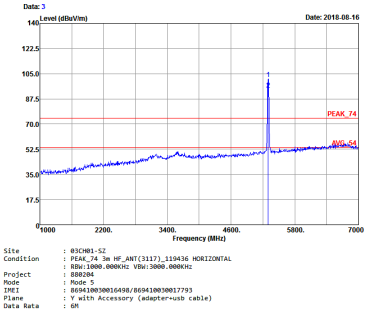
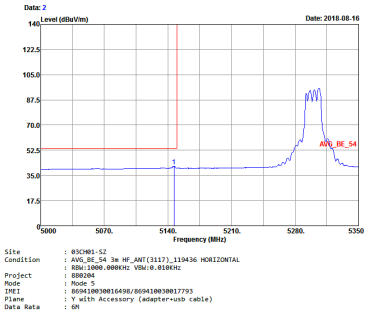
WIFI 802.11a (Band Edge @ 3m)

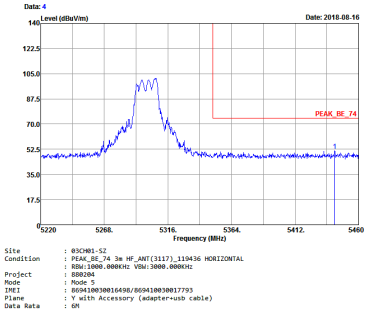
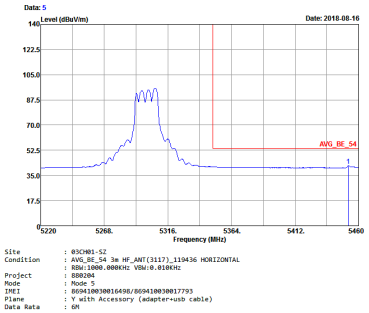
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

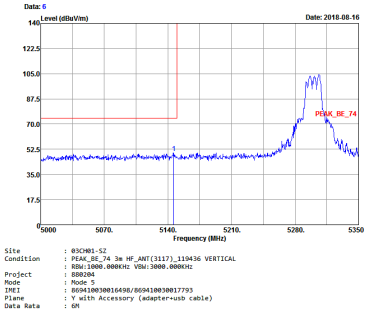
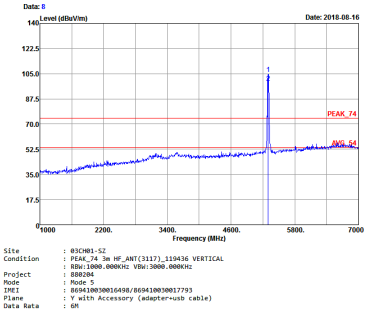
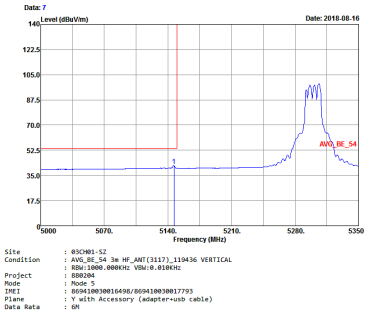
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

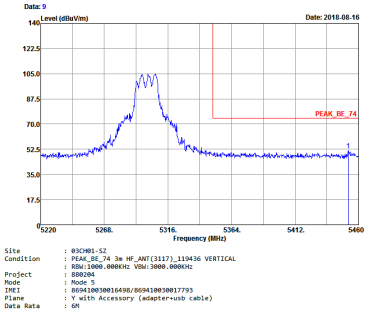
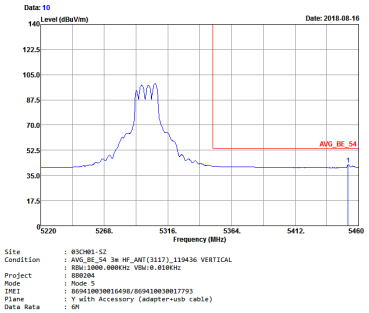
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

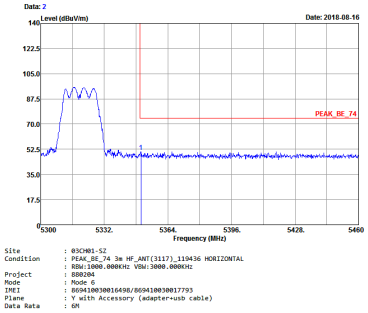
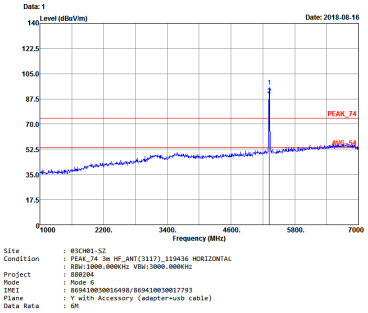
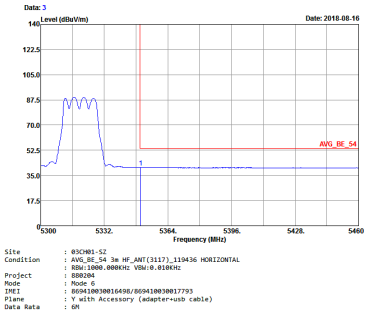
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

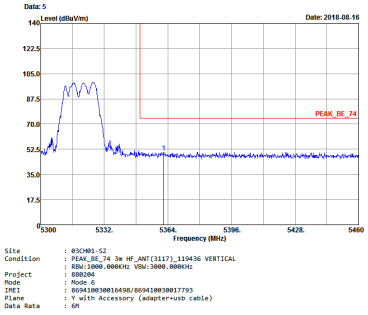
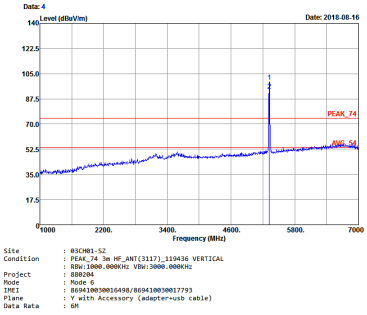
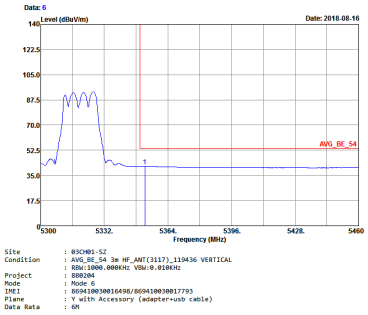
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

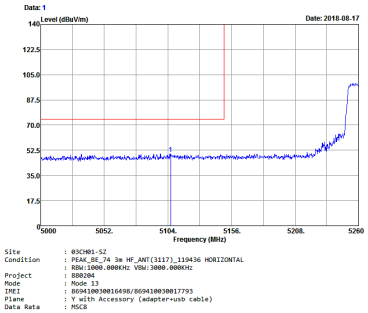
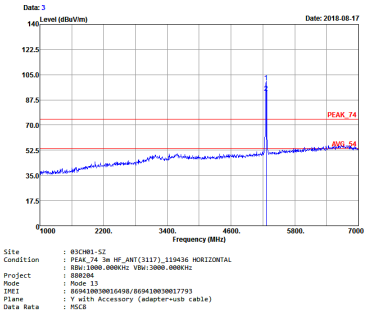
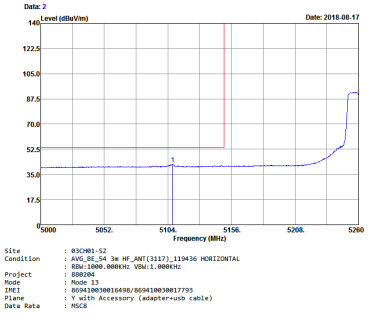
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

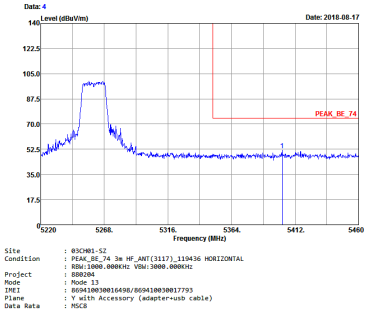
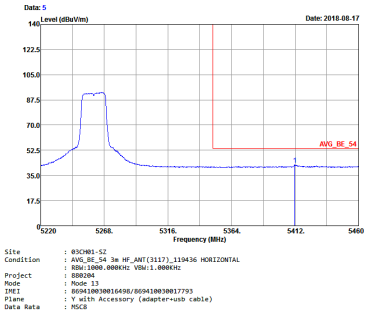
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

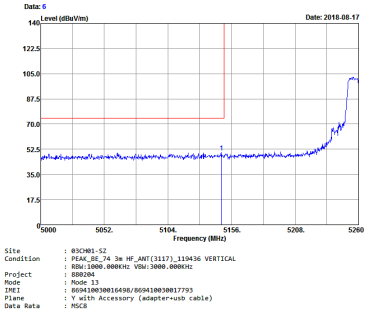
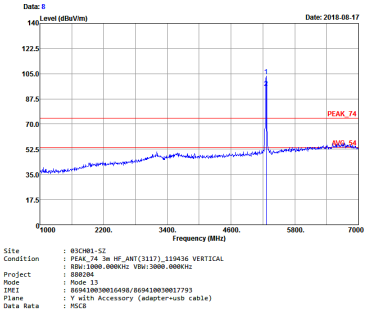
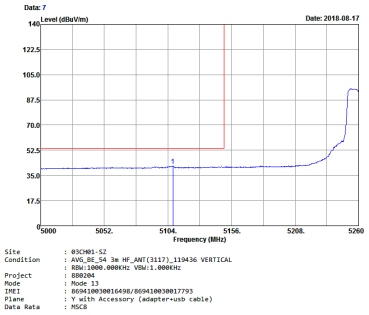
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

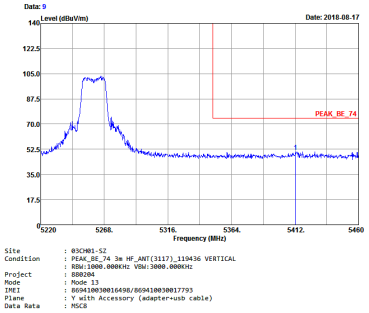
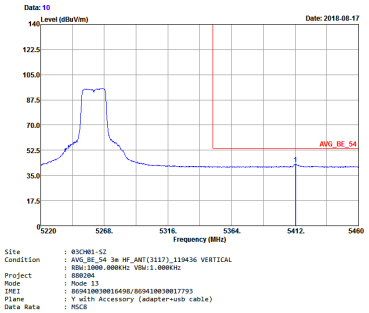
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

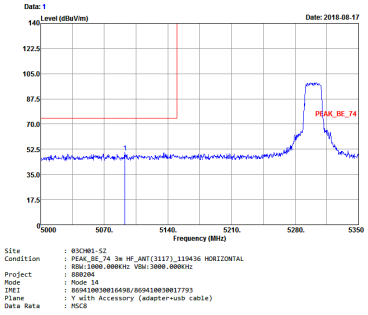
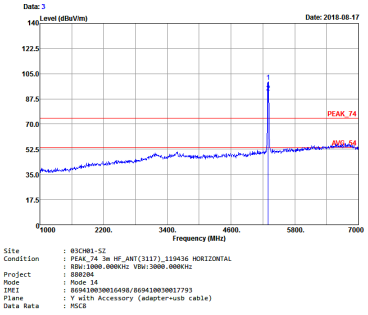
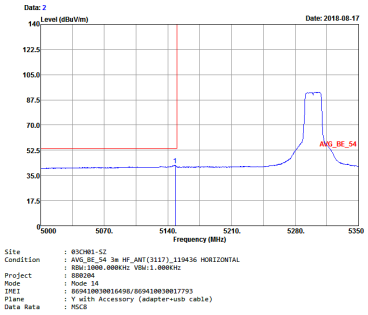
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

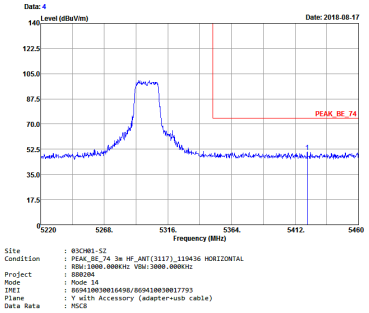
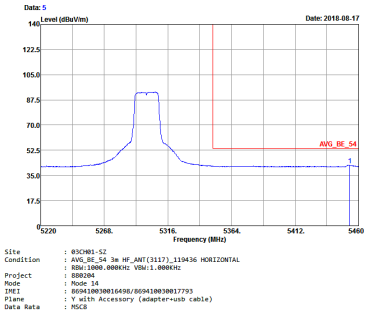
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

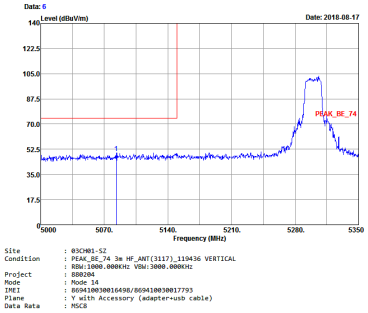
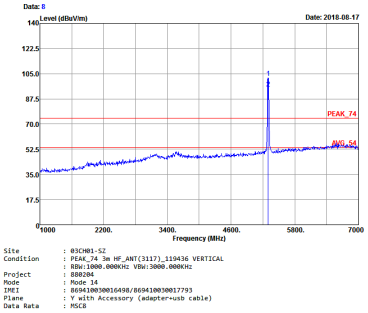
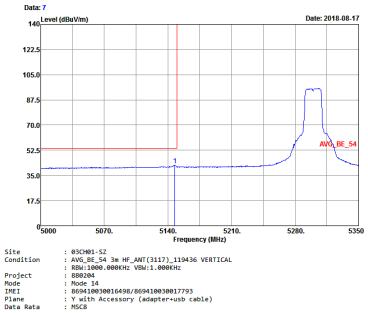
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

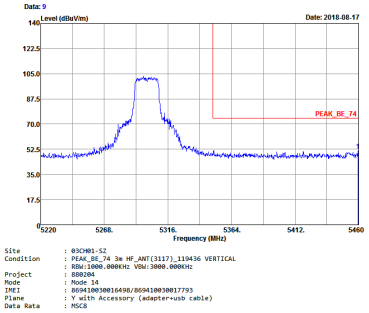
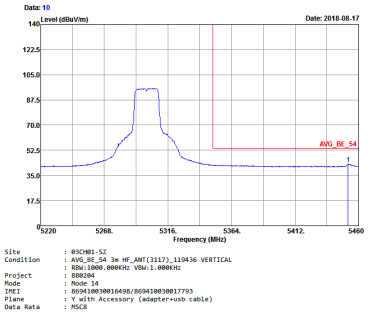
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

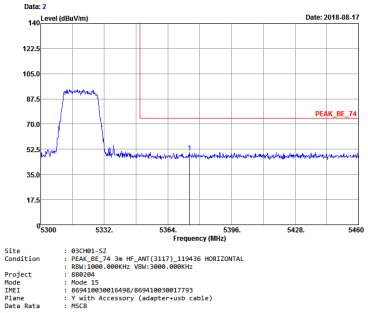
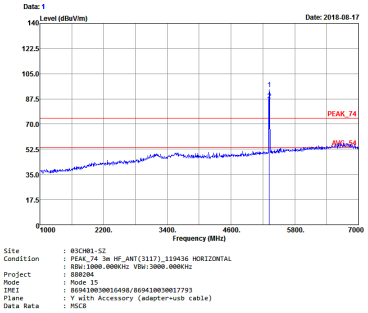
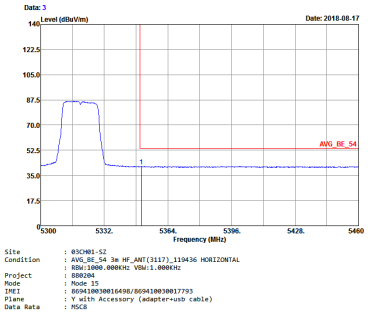
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

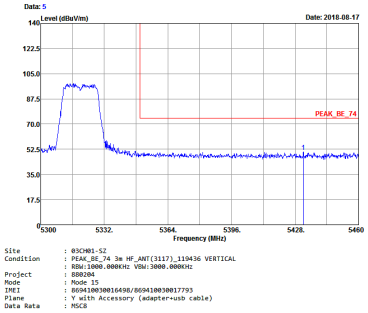
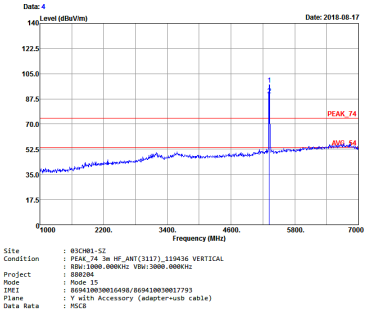
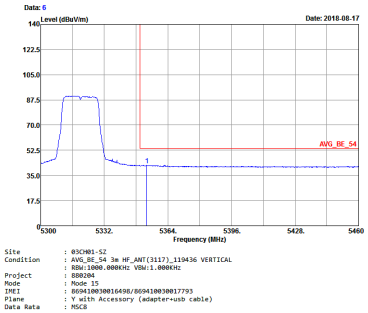
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

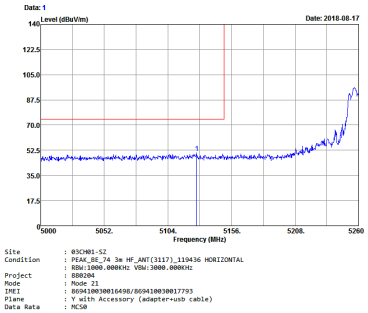
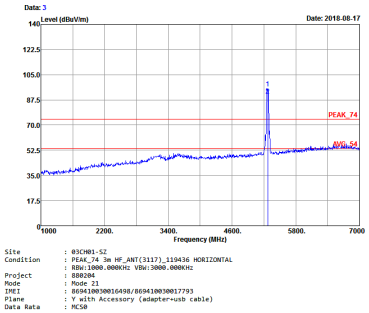
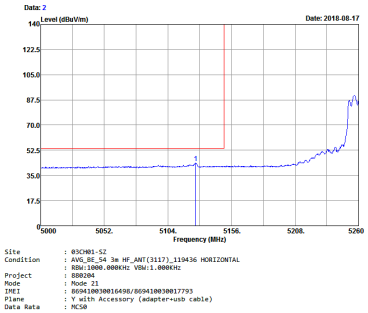
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

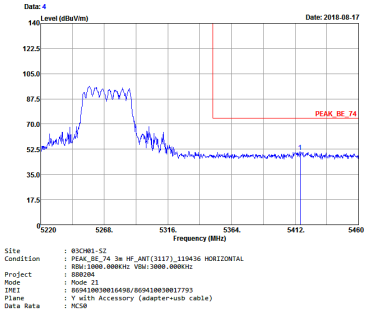
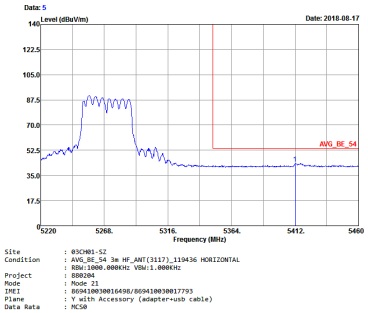
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank