FCC RADIO TEST REPORT

FCC ID	:	**EJE-WB0107**
Equipment	:	**Personal Computer**
Brand Name	:	**FUJITSU**
Model Name	:	**U729X**
Applicant	:	**FUJITSU CLIENT COMPUTING LIMITED** **1-1, Kamikonadaka 4-chome,** **Nakahara-ku, Kawasaki, 211-8588 Japan**
Manufacturer	:	**FUJITSU CLIENT COMPUTING LIMITED** **1-1, Kamikodanaka 4-chome,** **Nakahara-ku, Kawasaki, 211-8588 Japan**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Dec. 13, 2018 and testing was started from Dec. 14, 2018 and completed on Jan. 27, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Jones Tsai

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR8D1306D	01	Initial issue of report	Mar. 05, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
3.2	15.407(b)	Unwanted Emissions	Pass	Under limit 0.13 dB at 5458.480 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 13.11 dB at 0.188 MHz
3.4	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Fish Liu

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, and Wi-Fi 5GHz 802.11a/n/ac

Product Specification subjective to this standard	
Integrated WLAN Module	Brand Name: Intel Model Name: 9560NGW
Antenna Type	WLAN: <Ant. 1> PIFA Antenna <Ant. 2> PIFA Antenna Bluetooth: PIFA Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY

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

FCC Designation No.: TW1190 and TW0007

1.4 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 414788 D01 Radiated Test Site v01r01.
- 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 (X plane) were recorded in this report.

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

2.1 Carrier Frequency and Channel

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

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

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

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
802.11ac VHT160	50	5250	114	5570

Note:

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

2.2 Test Mode

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

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ac VHT160	MCS0

MIMO Mode

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ac VHT160	MCS0

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

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	-	-	100
M	Middle	-	-	-
H	High	-	64	-
Straddle		-	-	-

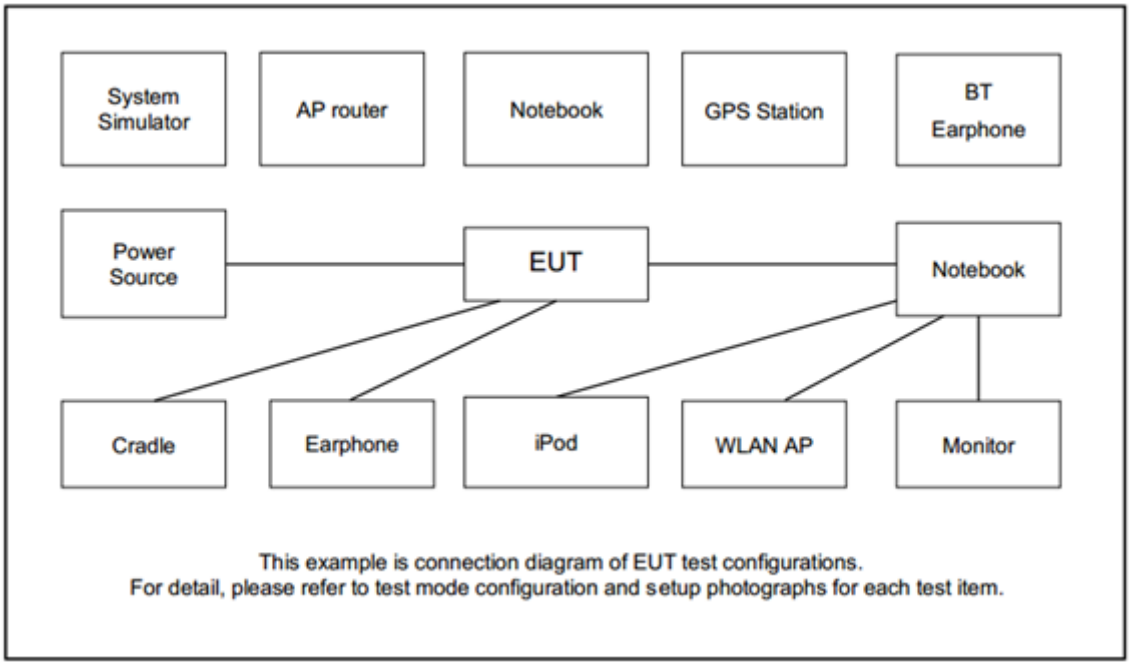
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	-	52	-
M	Middle	44	-	116
H	High	-	-	-
Straddle		-	-	-

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	-	102
M	Middle	-	-	-
H	High	46	62	-
Straddle		-	-	-

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

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

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.	Bluetooth Earphone	SonyErricsson	MW600	PY700A2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “DRTU” 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.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

- 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 an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

- The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

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

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

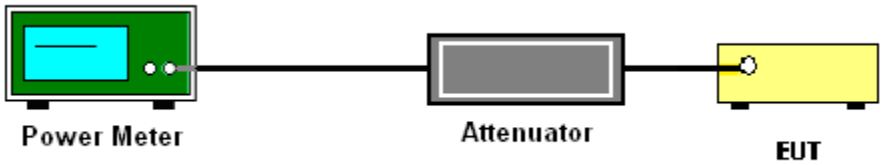
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

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

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

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

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

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

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

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

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

(3) KDB789033 D02 v02r01 G)2)c)

(i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.[3]

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 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

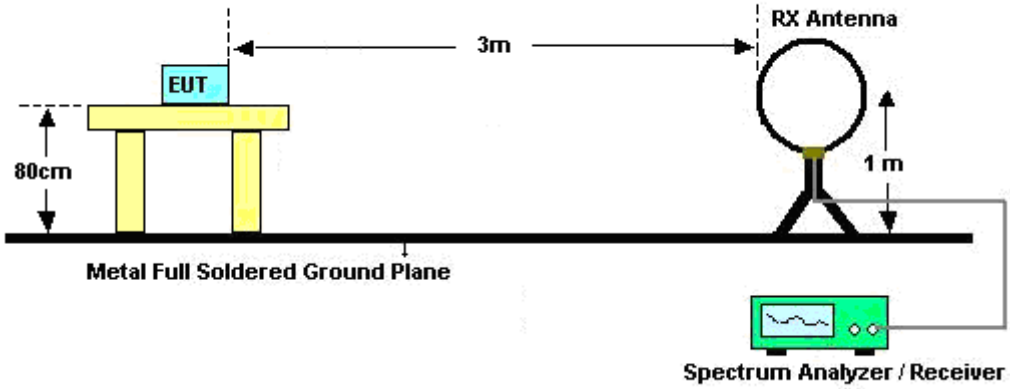
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

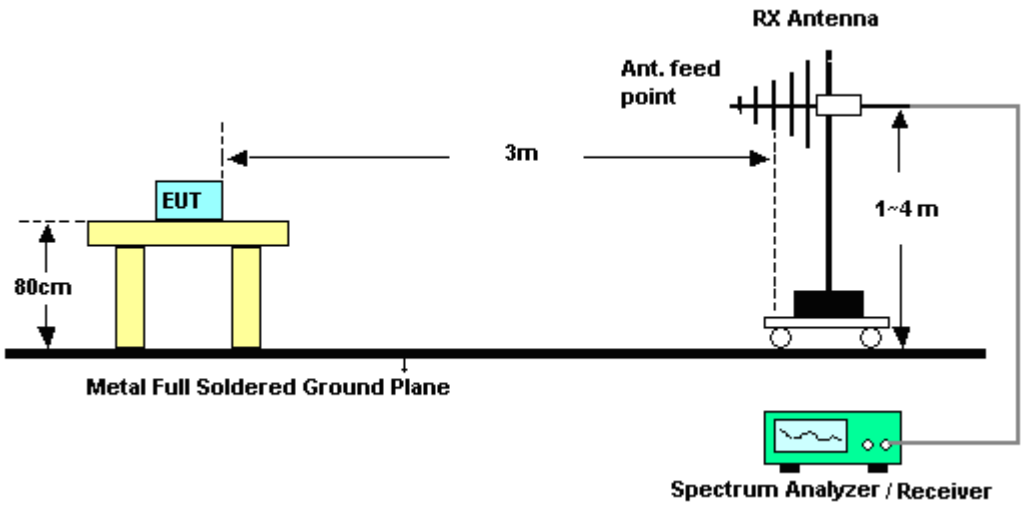
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.2.4 Test Setup

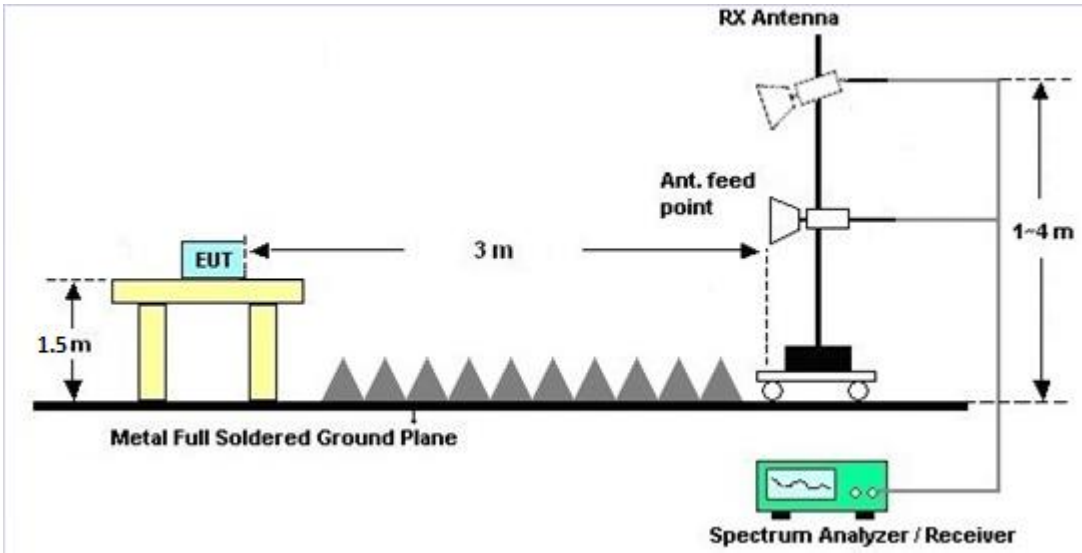
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.2.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

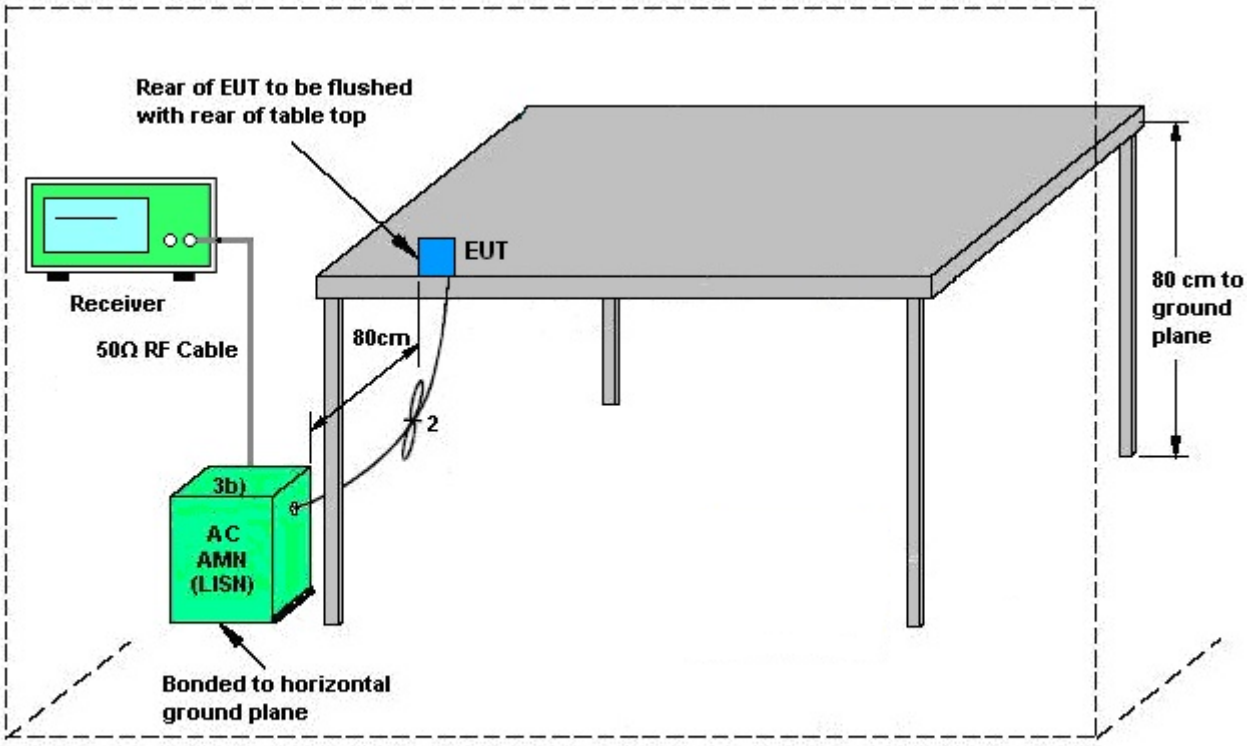
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

3.3.4 Test Setup



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

3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 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.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 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.

<CDD Modes>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	0.21	-0.88	-0.64	2.10	0.00	0.00
Band II	0.21	-0.88	0.21	2.69	0.00	0.00
Band III	-0.14	-0.16	-0.14	2.86	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1218006	N/A	Oct. 08, 2018	Dec. 14, 2018 ~ Dec. 17, 2018	Oct. 07, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207363	300MHz~40GHz	Oct. 08, 2018	Dec. 14, 2018 ~ Dec. 17, 2018	Oct. 07, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Dec. 14, 2018 ~ Dec. 17, 2018	Nov. 20, 2019	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 23, 2017	Jan. 03, 2019 ~ Jan. 07, 2019	Nov. 22, 2019	Radiation (03CH16-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Jul. 15, 2019	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	May 08, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	May 07, 2019	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jan. 03, 2019 ~ Jan. 07, 2019	N/A	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800054001	1GHz~18GHz	Apr. 16, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Apr. 15, 2019	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY57290111	3Hz~26.5GHz	Nov. 29, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Nov. 28, 2019	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 07, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Sep. 06, 2019	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Feb. 02, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Feb. 01, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Jan. 22, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Jan. 21, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	335041/4	30M-18G	Jan. 22, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Jan. 21, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M~18GHz	Jan. 22, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Jan. 21, 2019	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 17, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Apr. 16, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M~18GHz	Jan. 22, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Jan. 21, 2019	Radiation (03CH16-HY)
Biconical Antenna	SCHWARZBECK	BBA 9106 & VHBB 9124	301	30MHz-300MHz	Feb. 06, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Feb. 05, 2019	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 02, 2018	Jan. 03, 2019 ~ Jan. 07, 2019	Oct. 01, 2019	Radiation (03CH16-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 27, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Jan. 27, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 06, 2018	Jan. 27, 2019	Mar. 05, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jan. 27, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jan. 27, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 27, 2019	N/A	Conduction (CO05-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Sep. 14, 2018	Jan. 27, 2019	Sep. 13, 2019	Conduction (CO05-HY)
Software	Audix	E3 6.2009-8-24c	RK-001179	N/A	N/A	Jan. 27, 2019	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 08, 2018	Jan. 27, 2019	Nov. 07, 2019	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.2

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.8

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kai Liao / Tommy Lee	Temperature:	21~25	°C
Test Date:	2018/12/14~2018/12/17	Relative Humidity:	51~54	%

Report Number : FR8D1306D

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.08	0.08	13.48	13.46		24.00	24.00	0.21	-0.88		Pass
11a	6Mbps	1	44	5220	0.08	0.08	13.45	13.43		24.00	24.00	0.21	-0.88		Pass
11a	6Mbps	1	48	5240	0.08	0.08	13.47	13.43		24.00	24.00	0.21	-0.88		Pass
HT20	MCS0	1	36	5180	0.11	0.11	13.49	13.45		24.00	24.00	0.21	-0.88		Pass
HT20	MCS0	1	44	5220	0.11	0.11	13.41	13.38		24.00	24.00	0.21	-0.88		Pass
HT20	MCS0	1	48	5240	0.11	0.11	13.40	13.37		24.00	24.00	0.21	-0.88		Pass
HT40	MCS0	1	38	5190	0.18	0.18	13.49	13.44		24.00	24.00	0.21	-0.88		Pass
HT40	MCS0	1	46	5230	0.18	0.18	13.44	13.35		24.00	24.00	0.21	-0.88		Pass
VHT20	MCS0	1	36	5180	0.09	0.09	13.47	13.41		24.00	24.00	0.21	-0.88		Pass
VHT20	MCS0	1	44	5220	0.09	0.09	13.34	13.29		24.00	24.00	0.21	-0.88		Pass
VHT20	MCS0	1	48	5240	0.09	0.09	13.26	13.25		24.00	24.00	0.21	-0.88		Pass
VHT40	MCS0	1	38	5190	0.20	0.20	13.47	13.42		24.00	24.00	0.21	-0.88		Pass
VHT40	MCS0	1	46	5230	0.20	0.20	13.41	13.33		24.00	24.00	0.21	-0.88		Pass
VHT80	MCS0	1	42	5210	0.36	0.36	13.46	13.40		24.00	24.00	0.21	-0.88		Pass
VHT160	MCS0	1	50	5250	0.36	0.36	13.46	13.45		24.00	24.00	0.21	-0.88		Pass
HT20	MCS0	2	36	5180	0.11	0.11	13.48	13.47	16.49	24.00		0.21			Pass
HT20	MCS0	2	44	5220	0.11	0.11	13.38	13.41	16.41	24.00		0.21			Pass
HT20	MCS0	2	48	5240	0.11	0.11	13.30	13.47	16.40	24.00		0.21			Pass
HT40	MCS0	2	38	5190	0.23	0.23	13.49	13.47	16.49	24.00		0.21			Pass
HT40	MCS0	2	46	5230	0.23	0.23	13.47	13.40	16.44	24.00		0.21			Pass
VHT20	MCS0	2	36	5180	0.11	0.11	13.45	13.37	16.42	24.00		0.21			Pass
VHT20	MCS0	2	44	5220	0.11	0.11	13.32	13.32	16.33	24.00		0.21			Pass
VHT20	MCS0	2	48	5240	0.11	0.11	13.28	13.34	16.32	24.00		0.21			Pass
VHT40	MCS0	2	38	5190	0.22	0.22	13.46	13.32	16.40	24.00		0.21			Pass
VHT40	MCS0	2	46	5230	0.22	0.22	13.42	13.26	16.36	24.00		0.21			Pass
VHT80	MCS0	2	42	5210	0.45	0.45	13.47	13.07	16.28	24.00		0.21			Pass
VHT160	MCS0	2	50	5250	0.45	0.45	11.25	11.46	14.36	24.00		0.21			Pass

Report Number : FR8D1306D

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	1	52	5260	0.08	0.08	13.43	13.39		23.98	23.98	0.21	-0.88	26.99	Pass
11a	6Mbps	1	60	5300	0.08	0.08	13.48	13.45		23.98	23.98	0.21	-0.88	26.99	Pass
11a	6Mbps	1	64	5320	0.08	0.08	13.49	13.44		23.98	23.98	0.21	-0.88	26.99	Pass
HT20	MCS0	1	52	5260	0.11	0.11	13.49	13.46		23.98	23.98	0.21	-0.88	26.99	Pass
HT20	MCS0	1	60	5300	0.11	0.11	13.48	13.34		23.98	23.98	0.21	-0.88	26.99	Pass
HT20	MCS0	1	64	5320	0.11	0.11	13.47	13.43		23.98	23.98	0.21	-0.88	26.99	Pass
HT40	MCS0	1	54	5270	0.18	0.18	13.48	13.46		23.98	23.98	0.21	-0.88	26.99	Pass
HT40	MCS0	1	62	5310	0.18	0.18	13.49	13.44		23.98	23.98	0.21	-0.88	26.99	Pass
VHT20	MCS0	1	52	5260	0.09	0.09	13.40	13.38		23.98	23.98	0.21	-0.88	26.99	Pass
VHT20	MCS0	1	60	5300	0.09	0.09	13.42	13.30		23.98	23.98	0.21	-0.88	26.99	Pass
VHT20	MCS0	1	64	5320	0.09	0.09	13.43	13.39		23.98	23.98	0.21	-0.88	26.99	Pass
VHT40	MCS0	1	54	5270	0.20	0.20	13.47	13.40		23.98	23.98	0.21	-0.88	26.99	Pass
VHT40	MCS0	1	62	5310	0.20	0.20	13.48	13.35		23.98	23.98	0.21	-0.88	26.99	Pass
VHT80	MCS0	1	58	5290	0.36	0.36	13.40	13.38		23.98	23.98	0.21	-0.88	26.99	Pass
HT20	MCS0	2	52	5260	0.11	0.11	13.47	13.31	16.40	23.98		0.21		26.99	Pass
HT20	MCS0	2	60	5300	0.11	0.11	13.46	13.16	16.33	23.98		0.21		26.99	Pass
HT20	MCS0	2	64	5320	0.11	0.11	13.48	13.24	16.37	23.98		0.21		26.99	Pass
HT40	MCS0	2	54	5270	0.23	0.23	13.49	13.40	16.45	23.98		0.21		26.99	Pass
HT40	MCS0	2	62	5310	0.23	0.23	13.46	13.35	16.41	23.98		0.21		26.99	Pass
VHT20	MCS0	2	52	5260	0.11	0.11	13.44	13.24	16.35	23.98		0.21		26.99	Pass
VHT20	MCS0	2	60	5300	0.11	0.11	13.44	13.13	16.30	23.98		0.21		26.99	Pass
VHT20	MCS0	2	64	5320	0.11	0.11	13.43	13.22	16.34	23.98		0.21		26.99	Pass
VHT40	MCS0	2	54	5270	0.22	0.22	13.46	13.19	16.34	23.98		0.21		26.99	Pass
VHT40	MCS0	2	62	5310	0.22	0.22	13.43	13.03	16.25	23.98		0.21		26.99	Pass
VHT80	MCS0	2	58	5290	0.45	0.45	12.40	12.49	15.45	23.98		0.21		26.99	Pass

Report Number : FR8D1306D

TEST RESULTS DATA
Average Power Table

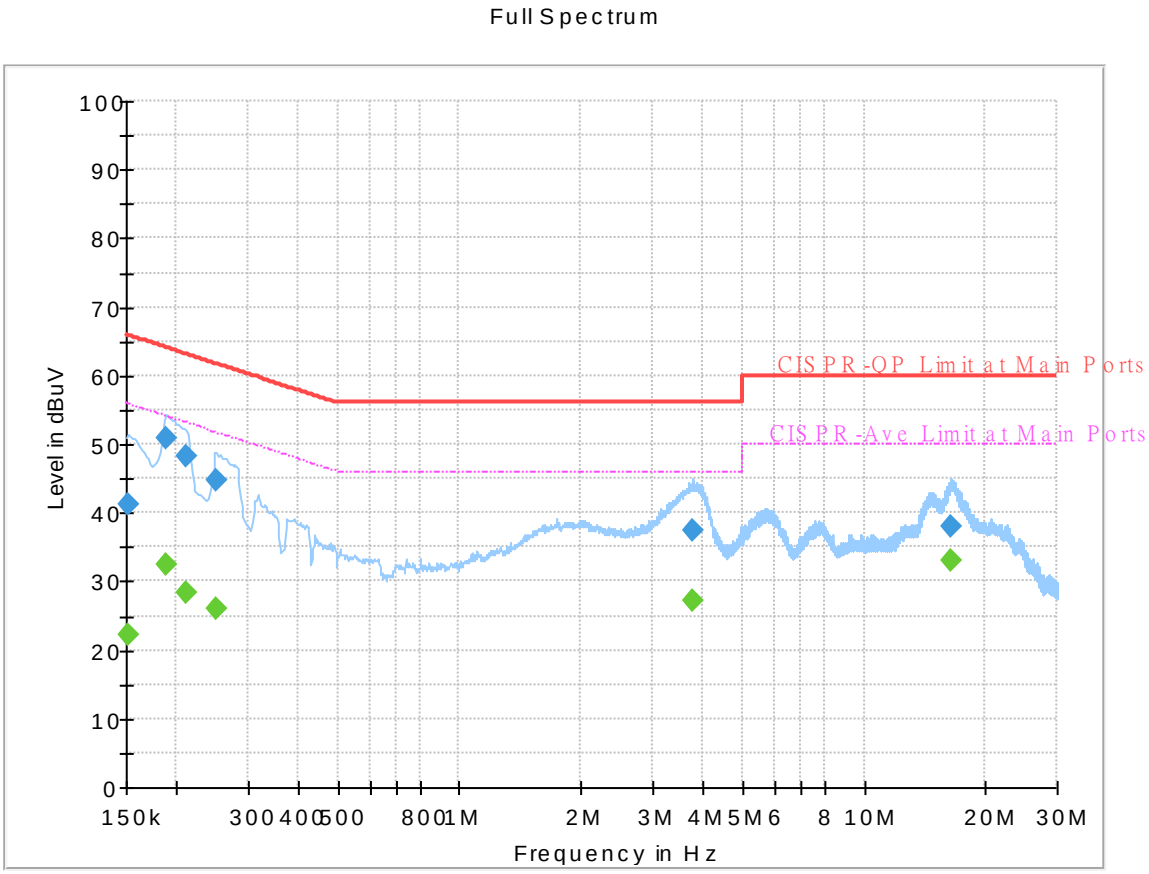
FCC Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.08	0.08	13.45	13.45		23.98	23.98	-0.14	-0.16	26.99	Pass
11a	6Mbps	1	116	5580	0.08	0.08	13.46	13.43		23.98	23.98	-0.14	-0.16	26.99	Pass
11a	6Mbps	1	140	5700	0.08	0.08	13.46	13.45		23.98	23.98	-0.14	-0.16	26.99	Pass
11a	6Mbps	1	144	5720	0.08	0.08	13.31	13.30		23.98	23.98	-0.14	-0.16	26.99	Pass
HT20	MCS0	1	100	5500	0.11	0.11	13.46	13.46		23.98	23.98	-0.14	-0.16	26.99	Pass
HT20	MCS0	1	116	5580	0.11	0.11	13.36	13.44		23.98	23.98	-0.14	-0.16	26.99	Pass
HT20	MCS0	1	140	5700	0.11	0.11	13.30	13.29		23.98	23.98	-0.14	-0.16	26.99	Pass
HT20	MCS0	1	144	5720	0.11	0.11	13.30	13.27		23.98	23.98	-0.14	-0.16	26.99	Pass
HT40	MCS0	1	102	5510	0.18	0.18	13.48	13.43		23.98	23.98	-0.14	-0.16	26.99	Pass
HT40	MCS0	1	110	5550	0.18	0.18	13.45	13.43		23.98	23.98	-0.14	-0.16	26.99	Pass
HT40	MCS0	1	134	5670	0.18	0.18	13.43	13.40		23.98	23.98	-0.14	-0.16	26.99	Pass
HT40	MCS0	1	142	5710	0.18	0.18	13.45	13.37		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT20	MCS0	1	100	5500	0.09	0.09	13.39	13.38		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT20	MCS0	1	116	5580	0.09	0.09	13.24	13.22		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT20	MCS0	1	140	5700	0.09	0.09	13.23	13.13		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT20	MCS0	1	144	5720	0.09	0.09	13.14	13.13		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT40	MCS0	1	102	5510	0.20	0.20	13.47	13.27		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT40	MCS0	1	110	5550	0.20	0.20	13.38	13.37		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT40	MCS0	1	134	5670	0.20	0.20	13.42	13.30		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT40	MCS0	1	142	5710	0.20	0.20	13.38	13.26		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT80	MCS0	1	106	5530	0.36	0.36	13.41	13.41		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT80	MCS0	1	122	5610	0.36	0.36	13.36	13.35		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT80	MCS0	1	138	5690	0.36	0.36	13.30	13.26		23.98	23.98	-0.14	-0.16	26.99	Pass
VHT160	MCS0	1	114	5570	0.36	0.36	13.48	13.47		23.98	23.98	-0.14	-0.16	26.99	Pass
HT20	MCS0	2	100	5500	0.11	0.11	13.47	13.45	16.47	23.98		-0.14		26.99	Pass
HT20	MCS0	2	116	5580	0.11	0.11	13.39	13.34	16.38	23.98		-0.14		26.99	Pass
HT20	MCS0	2	140	5700	0.11	0.11	13.37	13.16	16.28	23.98		-0.14		26.99	Pass
HT20	MCS0	2	144	5720	0.11	0.11	13.26	13.21	16.25	23.98		-0.14		26.99	Pass
HT40	MCS0	2	102	5510	0.23	0.23	13.49	13.26	16.38	23.98		-0.14		26.99	Pass
HT40	MCS0	2	110	5550	0.23	0.23	13.48	13.44	16.47	23.98		-0.14		26.99	Pass
HT40	MCS0	2	134	5670	0.23	0.23	13.43	13.40	16.42	23.98		-0.14		26.99	Pass
HT40	MCS0	2	142	5710	0.23	0.23	13.38	13.31	16.35	23.98		-0.14		26.99	Pass
VHT20	MCS0	2	100	5500	0.11	0.11	13.43	13.42	16.44	23.98		-0.14		26.99	Pass
VHT20	MCS0	2	116	5580	0.11	0.11	13.34	13.32	16.34	23.98		-0.14		26.99	Pass
VHT20	MCS0	2	140	5700	0.11	0.11	13.28	13.11	16.21	23.98		-0.14		26.99	Pass
VHT20	MCS0	2	144	5720	0.11	0.11	13.23	13.11	16.18	23.98		-0.14		26.99	Pass
VHT40	MCS0	2	102	5510	0.22	0.22	13.46	13.07	16.28	23.98		-0.14		26.99	Pass
VHT40	MCS0	2	110	5550	0.22	0.22	13.45	13.29	16.39	23.98		-0.14		26.99	Pass
VHT40	MCS0	2	134	5670	0.22	0.22	13.35	13.20	16.29	23.98		-0.14		26.99	Pass
VHT40	MCS0	2	142	5710	0.22	0.22	13.34	13.27	16.32	23.98		-0.14		26.99	Pass
VHT80	MCS0	2	106	5530	0.45	0.45	13.48	13.45	16.47	23.98		-0.14		26.99	Pass
VHT80	MCS0	2	122	5610	0.45	0.45	13.25	13.45	16.36	23.98		-0.14		26.99	Pass
VHT80	MCS0	2	138	5690	0.45	0.45	13.10	13.47	16.30	23.98		-0.14		26.99	Pass
VHT160	MSC0	2	114	5570	0.45	0.45	13.05	13.26	16.16	23.98		-0.14		26.99	Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Eric Jeng	**Temperature :**	22~25℃
		Relative Humidity :	52~55%

EUT Information

Report NO :	8D1306
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

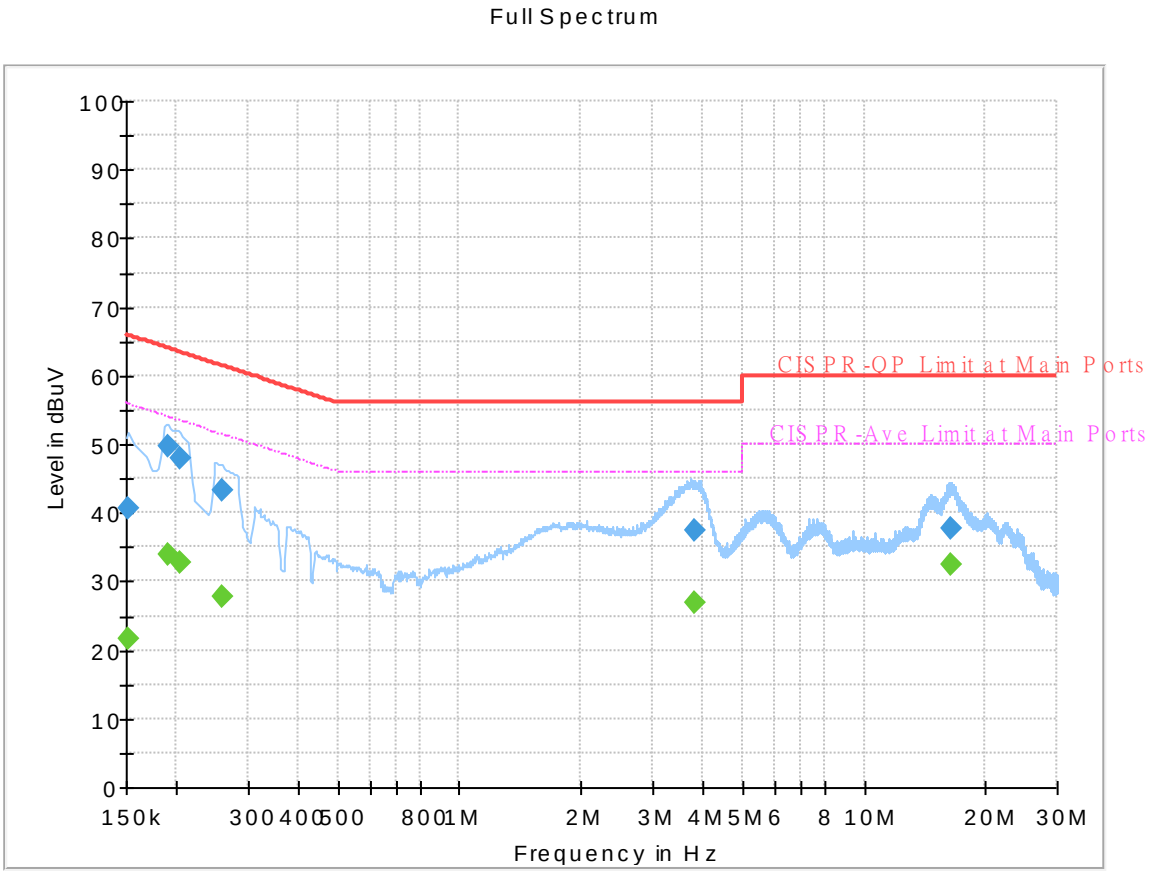


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	22.10	55.88	33.78	L1	OFF	19.5
0.152250	41.30	---	65.88	24.58	L1	OFF	19.5
0.188250	---	32.32	54.11	21.79	L1	OFF	19.5
0.188250	51.00	---	64.11	13.11	L1	OFF	19.5
0.210750	---	28.30	53.18	24.88	L1	OFF	19.5
0.210750	48.12	---	63.18	15.06	L1	OFF	19.5
0.251250	---	26.06	51.72	25.66	L1	OFF	19.5
0.251250	44.71	---	61.72	17.01	L1	OFF	19.5
3.770250	---	27.24	46.00	18.76	L1	OFF	19.6
3.770250	37.43	---	56.00	18.57	L1	OFF	19.6
16.464750	---	33.01	50.00	16.99	L1	OFF	19.8
16.464750	38.08	---	60.00	21.92	L1	OFF	19.8

EUT Information

Report NO :	8D1306
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	21.56	55.88	34.32	N	OFF	19.5
0.152250	40.53	---	65.88	25.35	N	OFF	19.5
0.190500	---	33.81	54.02	20.21	N	OFF	19.5
0.190500	49.80	---	64.02	14.22	N	OFF	19.5
0.204000	---	32.77	53.45	20.68	N	OFF	19.5
0.204000	48.09	---	63.45	15.36	N	OFF	19.5
0.258000	---	27.73	51.50	23.77	N	OFF	19.5
0.258000	43.27	---	61.50	18.23	N	OFF	19.5
3.808500	---	26.96	46.00	19.04	N	OFF	19.6
3.808500	37.45	---	56.00	18.55	N	OFF	19.6
16.433250	---	32.56	50.00	17.44	N	OFF	19.8
16.433250	37.59	---	60.00	22.41	N	OFF	19.8

Appendix C. Radiated Spurious Emission

Test Engineer :	Jacky Hung, CR Liro, Andy Liu	Temperature :	23~25 ℃
		Relative Humidity :	55~57 %

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5429.84	55.35	-18.65	74	40.02	31.69	13.06	29.42	100	78	P	H
		5463.6	55.22	-12.98	68.2	39.78	31.69	13.18	29.43	100	78	P	H
		5459.92	42.52	-11.48	54	27.1	31.69	13.16	29.43	100	78	A	H
	*	5500	106.68	-	-	91.1	31.7	13.31	29.43	100	78	P	H
	*	5500	98.5	-	-	82.92	31.7	13.31	29.43	100	78	A	H
													H
		5396.72	55.14	-18.86	74	39.93	31.68	12.95	29.42	265	94	P	V
		5467.28	54.61	-13.59	68.2	39.16	31.69	13.19	29.43	265	94	P	V
		5458.8	42.68	-11.32	54	27.26	31.69	13.16	29.43	265	94	A	V
	*	5500	107.8	-	-	92.22	31.7	13.31	29.43	265	94	P	V
	*	5500	99.27	-	-	83.69	31.7	13.31	29.43	265	94	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	46.14	-27.86	74	49.45	40.2	17.99	61.5	100	0	P	H
		16500	44.28	-23.92	68.2	42.8	38.9	22.28	59.7	100	0	P	H
													H
													H
		11000	46.34	-27.66	74	49.65	40.2	17.99	61.5	100	0	P	V
		16500	44.59	-23.61	68.2	43.11	38.9	22.28	59.7	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5451.76	55.47	-18.53	74	40.08	31.69	13.13	29.43	100	79	P	H
		5467.36	54.63	-13.57	68.2	39.18	31.69	13.19	29.43	100	79	P	H
		5438.08	44.91	-9.09	54	29.55	31.69	13.09	29.42	100	79	A	H
	*	5510	103.24	-	-	87.62	31.72	13.34	29.44	100	79	P	H
	*	5510	95.36	-	-	79.74	31.72	13.34	29.44	100	79	A	H
		5756.18	54.18	-14.02	68.2	37.56	32.11	14.08	29.57	100	79	P	H
		5454.88	55.27	-18.73	74	39.87	31.69	13.14	29.43	264	96	P	V
		5468.08	55.5	-12.7	68.2	40.05	31.69	13.19	29.43	264	96	P	V
		5452.72	44.88	-9.12	54	29.48	31.69	13.14	29.43	264	96	A	V
	*	5510	104.14	-	-	88.52	31.72	13.34	29.44	264	96	P	V
	*	5510	96.38	-	-	80.76	31.72	13.34	29.44	264	96	A	V
		5763.11	55.32	-12.88	68.2	38.67	32.12	14.1	29.57	264	96	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	46.9	-27.1	74	50.21	40.19	18	61.5	100	0	P	H
		16530	43.97	-24.23	68.2	42.26	39.01	22.32	59.62	100	0	P	H
													H
													H
		11020	45.52	-28.48	74	48.83	40.19	18	61.5	100	0	P	V
		16530	43.99	-24.21	68.2	42.28	39.01	22.32	59.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 44 5220MHz		5120.38	54.07	-19.93	74	38.56	31.62	13.27	29.38	100	4	P	H
		5148.46	43.48	-10.52	54	28.03	31.63	13.2	29.38	100	4	A	H
	*	5220	104.87	-	-	89.55	31.64	13.07	29.39	100	4	P	H
	*	5220	96.13	-	-	80.81	31.64	13.07	29.39	100	4	A	H
		5449.92	53.68	-20.32	74	38.29	31.69	13.13	29.43	100	4	P	H
		5438.16	43.15	-10.85	54	27.79	31.69	13.09	29.42	100	4	A	H
		5044.72	53.89	-20.11	74	38.2	31.61	13.45	29.37	303	206	P	V
		5094.38	43.44	-10.56	54	27.86	31.62	13.33	29.37	303	206	A	V
	*	5220	103.6	-	-	88.28	31.64	13.07	29.39	303	206	P	V
	*	5220	95.3	-	-	79.98	31.64	13.07	29.39	303	206	A	V
		5430.88	52.29	-21.71	74	36.96	31.69	13.06	29.42	303	206	P	V
		5432.28	42.9	-11.1	54	27.57	31.69	13.06	29.42	303	206	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 44 5220MHz		10440	45.01	-23.19	68.2	48.78	39.6	17.55	60.92	100	0	P	H
		15660	42.65	-31.35	74	44.24	37.55	21.53	60.67	100	0	P	H
													H
													H
		10440	45.04	-23.16	68.2	48.81	39.6	17.55	60.92	100	0	P	V
		15660	42.85	-31.15	74	44.44	37.55	21.53	60.67	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 46 5230MHz		5119.6	53.76	-20.24	74	38.25	31.62	13.27	29.38	100	84	P	H
		5043.16	44.44	-9.56	54	28.74	31.61	13.46	29.37	100	84	A	H
	*	5230	101.22	-	-	85.9	31.65	13.06	29.39	100	84	P	H
	*	5230	93.05	-	-	77.73	31.65	13.06	29.39	100	84	A	H
		5385.52	52.9	-21.1	74	37.68	31.68	12.96	29.42	100	84	P	H
		5435.36	44.29	-9.71	54	28.94	31.69	13.08	29.42	100	84	A	H
		5080.6	54.41	-19.59	74	38.79	31.62	13.37	29.37	242	207	P	V
		5104.52	44.5	-9.5	54	28.94	31.62	13.31	29.37	242	207	A	V
	*	5230	100.21	-	-	84.89	31.65	13.06	29.39	242	207	P	V
	*	5230	91.63	-	-	76.31	31.65	13.06	29.39	242	207	A	V
		5383	53.53	-20.47	74	38.31	31.68	12.96	29.42	242	207	P	V
		5435.08	44.05	-9.95	54	28.71	31.69	13.07	29.42	242	207	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 46 5230MHz		10460	44.89	-23.31	68.2	48.63	39.64	17.56	60.94	100	0	P	H
		15690	43.5	-30.5	74	45.14	37.47	21.54	60.65	100	0	P	H
													H
													H
		10460	44.82	-23.38	68.2	48.56	39.64	17.56	60.94	100	0	P	V
		15690	43.01	-30.99	74	44.65	37.47	21.54	60.65	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5097.76	54.67	-19.33	74	39.09	31.62	13.33	29.37	100	85	P	H
		5147.68	44.49	-9.51	54	29.03	31.63	13.21	29.38	100	85	A	H
	*	5210	97.98	-	-	82.66	31.64	13.07	29.39	100	85	P	H
	*	5210	89.89	-	-	74.57	31.64	13.07	29.39	100	85	A	H
		5453.84	53.59	-20.41	74	38.19	31.69	13.14	29.43	100	85	P	H
		5354.44	44.29	-9.71	54	29.05	31.67	12.98	29.41	100	85	A	H
		5080.08	54.19	-19.81	74	38.57	31.62	13.37	29.37	285	207	P	V
		5070.98	45.19	-8.81	54	29.56	31.61	13.39	29.37	285	207	A	V
	*	5210	97.48	-	-	82.16	31.64	13.07	29.39	285	207	P	V
	*	5210	87.51	-	-	72.19	31.64	13.07	29.39	285	207	A	V
		5401.48	53.91	-20.09	74	38.69	31.68	12.96	29.42	285	207	P	V
		5353.04	44.23	-9.77	54	28.99	31.67	12.98	29.41	285	207	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	45.05	-23.15	68.2	48.84	39.57	17.53	60.89	100	0	P	H
		15630	43.38	-30.62	74	44.91	37.64	21.53	60.7	100	0	P	H
													H
													H
		10420	44.69	-23.51	68.2	48.48	39.57	17.53	60.89	100	0	P	V
		15630	43.71	-30.29	74	45.24	37.64	21.53	60.7	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT160 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT160 CH 50 5250MHz		5147.42	57.95	-16.05	74	42.49	31.63	13.21	29.38	100	17	P	H
		5143.52	53.01	-0.99	54	37.54	31.63	13.22	29.38	100	17	A	H
	*	5250	96.44	-	-	81.14	31.65	13.05	29.4	100	17	P	H
	*	5250	89.44	-	-	74.14	31.65	13.05	29.4	100	17	A	H
		5381.88	56.59	-17.41	74	41.37	31.68	12.96	29.42	100	17	P	H
		5409.6	50.13	-3.87	54	34.89	31.68	12.98	29.42	100	17	A	H
		5142.22	56.49	-17.51	74	41.02	31.63	13.22	29.38	239	207	P	V
		5147.42	51.22	-2.78	54	35.76	31.63	13.21	29.38	239	207	A	V
	*	5250	95.59	-	-	80.29	31.65	13.05	29.4	239	207	P	V
	*	5250	88.99	-	-	73.69	31.65	13.05	29.4	239	207	A	V
		5407.92	56.33	-17.67	74	41.09	31.68	12.98	29.42	239	207	P	V
		5397	49.14	-4.86	54	33.93	31.68	12.95	29.42	239	207	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 VHT160 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path 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	45.4	-22.8	68.2	49.1	39.7	17.6	61	100	0	P	H
		15750	43.05	-30.95	74	44.8	37.3	21.55	60.6	100	0	P	H
													H
													H
		10500	45.08	-23.12	68.2	48.78	39.7	17.6	61	100	0	P	V
		15750	43.23	-30.77	74	44.98	37.3	21.55	60.6	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz	*	5320	104.5	-	-	89.24	31.66	13	29.4	100	91	P	H
	*	5320	95.69	-	-	80.43	31.66	13	29.4	100	91	A	H
		5355.68	54.66	-19.34	74	39.42	31.67	12.98	29.41	100	91	P	H
		5350.56	42.09	-11.91	54	26.85	31.67	12.98	29.41	100	91	A	H
													H
													H
	*	5320	103.31	-	-	88.05	31.66	13	29.4	263	211	P	V
	*	5320	94.45	-	-	79.19	31.66	13	29.4	263	211	A	V
		5452.96	54.08	-19.92	74	38.68	31.69	13.14	29.43	263	211	P	V
		5351.04	41.91	-12.09	54	26.67	31.67	12.98	29.41	263	211	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz		10640	44.68	-29.32	74	48.28	39.84	17.7	61.14	100	0	P	H
		15960	41.97	-32.03	74	44.1	36.71	21.59	60.43	100	0	P	H
													H
													H
		10640	44.74	-29.26	74	48.34	39.84	17.7	61.14	100	0	P	V
		15960	41.05	-32.95	74	43.18	36.71	21.59	60.43	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 62 5310MHz		5057.12	54.85	-19.15	74	39.19	31.61	13.42	29.37	100	82	P	H
		5037.06	44.34	-9.66	54	28.62	31.61	13.47	29.36	100	82	A	H
	*	5310	100.88	-	-	85.62	31.66	13	29.4	100	82	P	H
	*	5310	92.72	-	-	77.46	31.66	13	29.4	100	82	A	H
		5440.08	54.82	-19.18	74	39.46	31.69	13.09	29.42	100	82	P	H
		5350.8	44.63	-9.37	54	29.39	31.67	12.98	29.41	100	82	A	H
		5075.82	54.89	-19.11	74	39.26	31.62	13.38	29.37	245	212	P	V
		5022.44	44.49	-9.51	54	28.74	31.6	13.51	29.36	245	212	A	V
	*	5310	98.83	-	-	83.56	31.66	13.01	29.4	245	212	P	V
	*	5310	91.03	-	-	75.76	31.66	13.01	29.4	245	212	A	V
		5400.96	53.46	-20.54	74	38.25	31.68	12.95	29.42	245	212	P	V
		5352.72	44.46	-9.54	54	29.22	31.67	12.98	29.41	245	212	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 62 5310MHz		10620	45.19	-28.81	74	48.8	39.82	17.69	61.12	100	0	P	H
		15930	42.32	-31.68	74	44.39	36.8	21.59	60.46	100	0	P	H
													H
													H
		10620	45.97	-28.03	74	49.58	39.82	17.69	61.12	100	0	P	V
		15930	42.4	-31.6	74	44.47	36.8	21.59	60.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5085.34	53.9	-20.1	74	38.29	31.62	13.36	29.37	100	86	P	H
		5067.66	44.45	-9.55	54	28.81	31.61	13.4	29.37	100	86	A	H
	*	5290	98.27	-	-	82.99	31.66	13.02	29.4	100	86	P	H
	*	5290	89.91	-	-	74.63	31.66	13.02	29.4	100	86	A	H
		5354.64	56	-18	74	40.76	31.67	12.98	29.41	100	86	P	H
		5350.56	47.3	-6.7	54	32.06	31.67	12.98	29.41	100	86	A	H
		5000.34	55.5	-18.5	74	39.7	31.6	13.56	29.36	249	209	P	V
		5092.48	44.62	-9.38	54	29.03	31.62	13.34	29.37	249	209	A	V
	*	5290	97.28	-	-	82	31.66	13.02	29.4	249	209	P	V
	*	5290	89.53	-	-	74.25	31.66	13.02	29.4	249	209	A	V
		5354.88	57.09	-16.91	74	41.85	31.67	12.98	29.41	249	209	P	V
		5352.24	46.26	-7.74	54	31.02	31.67	12.98	29.41	249	209	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path 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	44.98	-23.22	68.2	48.62	39.78	17.66	61.08	100	0	P	H
		15870	42.14	-31.86	74	44.1	36.96	21.58	60.5	100	0	P	H
													H
													H
		10580	45.18	-23.02	68.2	48.82	39.78	17.66	61.08	100	0	P	V
		15870	41.79	-32.21	74	43.75	36.96	21.58	60.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT160 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT160 CH 114 5570MHz		5454.64	57.83	-16.17	74	42.43	31.69	13.14	29.43	100	357	P	H
		5463.04	58.75	-9.45	68.2	43.32	31.69	13.17	29.43	100	357	A	H
		5458.72	53.54	-0.46	54	38.12	31.69	13.16	29.43	100	357	P	H
	*	5570	98.21	-	-	82.32	31.81	13.55	29.47	100	357	A	H
	*	5570	90.89	-	-	75	31.81	13.55	29.47	100	357	P	H
		5737.28	57.46	-10.74	68.2	40.91	32.08	14.03	29.56	100	357	A	H
		5453.92	55.48	-18.52	74	40.08	31.69	13.14	29.43	253	188	P	V
		5464.72	56.37	-11.83	68.2	40.93	31.69	13.18	29.43	253	188	A	V
		5457.52	50.78	-3.22	54	35.37	31.69	13.15	29.43	253	188	P	V
	*	5570	95.33	-	-	79.44	31.81	13.55	29.47	253	188	A	V
	*	5570	88.76	-	-	72.87	31.81	13.55	29.47	253	188	P	V
		5736.335	57.44	-10.76	68.2	40.89	32.08	14.03	29.56	253	188	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT160 CH 114 5570MHz		11140	45.36	-28.64	74	48.61	40.12	18.1	61.47	100	0	P	H
		16710	45.95	-22.25	68.2	42.89	39.66	22.55	59.15	100	0	P	H
													H
													H
		11140	46.22	-27.78	74	49.47	40.12	18.1	61.47	100	0	P	V
		16710	45.31	-22.89	68.2	42.25	39.66	22.55	59.15	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		5357.8	54.94	-19.06	74	39.7	31.67	12.98	29.41	141	58	P	H
		5465.05	53.54	-14.66	68.2	38.1	31.69	13.18	29.43	141	58	P	H
		5456.86	43.9	-10.1	54	28.49	31.69	13.15	29.43	141	58	A	H
	*	5690	99.5	-	-	83.13	32	13.9	29.53	141	58	P	H
	*	5690	90.43	-	-	74.06	32	13.9	29.53	141	58	A	H
		5895.5	56.83	-11.37	68.2	40.25	32.33	13.88	29.63	141	58	P	H
		5378.47	53.17	-20.83	74	37.95	31.68	12.96	29.42	281	190	P	V
		5461.15	52.77	-15.43	68.2	37.34	31.69	13.17	29.43	281	190	P	V
		5374.96	43.82	-10.18	54	28.6	31.67	12.97	29.42	281	190	A	V
	*	5690	100.14	-	-	83.77	32	13.9	29.53	281	190	P	V
	*	5690	92.3	-	-	75.93	32	13.9	29.53	281	190	A	V
		5901	56.08	-12.12	68.2	39.51	32.34	13.86	29.63	281	190	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	45.88	-28.12	74	49.04	39.97	18.29	61.42	100	0	P	H
		17070	47.14	-21.06	68.2	41.34	40.97	23.05	58.22	100	0	P	H
													H
													H
		11380	46.84	-27.16	74	50	39.97	18.29	61.42	100	0	P	V
		17070	46.71	-21.49	68.2	40.91	40.97	23.05	58.22	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ac VHT160 (LF @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT160 LF		241.68	41.66	-4.34	46	53.79	18.06	2.19	32.38	-	-	P	H
		247.35	42.76	-3.24	46	54.36	18.55	2.24	32.39	100	0	P	H
		252.75	40.4	-5.6	46	51.41	19.1	2.28	32.39	-	-	P	H
		362.3	33.72	-12.28	46	41.74	21.53	2.92	32.47	-	-	P	H
		379.8	34.79	-11.21	46	42.23	21.99	3.06	32.49	-	-	P	H
		489.7	31.93	-14.07	46	37.06	24.17	3.27	32.57	-	-	P	H
													H
													H
													H
													H
													H
													H
		240.87	35.74	-10.26	46	47.96	17.98	2.18	32.38	-	-	P	V
		243.3	37.58	-8.42	46	49.53	18.23	2.2	32.38	100	0	P	V
		247.35	37.02	-8.98	46	48.62	18.55	2.24	32.39	-	-	P	V
		355.3	30.35	-15.65	46	38.63	21.33	2.86	32.47	-	-	P	V
		955.2	32.36	-13.64	46	28.88	30.08	4.71	31.31	-	-	P	V
		240.87	35.74	-10.26	46	47.96	17.98	2.18	32.38	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 44 5220MHz		5127.4	54.54	-19.46	74	39.04	31.63	13.25	29.38	199	1	P	H
		5077.74	43.77	-10.23	54	28.15	31.62	13.37	29.37	199	1	A	H
	*	5220	112.93	-	-	97.61	31.64	13.07	29.39	199	1	P	H
	*	5220	103.82	-	-	88.5	31.64	13.07	29.39	199	1	A	H
		5419.4	54.59	-19.41	74	39.31	31.68	13.02	29.42	199	1	P	H
		5353.6	43.44	-10.56	54	28.2	31.67	12.98	29.41	199	1	A	H
		5091.26	54.51	-19.49	74	38.92	31.62	13.34	29.37	258	89	P	V
		5098.8	43.83	-10.17	54	28.26	31.62	13.32	29.37	258	89	A	V
	*	5220	109.36	-	-	94.04	31.64	13.07	29.39	258	89	P	V
	*	5220	100.69	-	-	85.37	31.64	13.07	29.39	258	89	A	V
		5376.28	53.63	-20.37	74	38.4	31.68	12.97	29.42	258	89	P	V
		5372.92	43.56	-10.44	54	28.33	31.67	12.97	29.41	258	89	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 44 5220MHz		10440	45.03	-23.17	68.2	48.8	39.6	17.55	60.92	100	0	P	H
		15660	42.74	-31.26	74	44.33	37.55	21.53	60.67	100	0	P	H
													H
													H
		10440	45.46	-22.74	68.2	49.23	39.6	17.55	60.92	100	0	P	V
		15660	43.26	-30.74	74	44.85	37.55	21.53	60.67	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.76	56.63	-17.37	74	41.18	31.63	13.2	29.38	306	6	P	H
		5149.24	49.35	-4.65	54	33.9	31.63	13.2	29.38	306	6	A	H
	*	5190	108.36	-	-	93.01	31.64	13.1	29.39	306	6	P	H
	*	5190	100.46	-	-	85.11	31.64	13.1	29.39	306	6	A	H
		5356.4	53.73	-20.27	74	38.49	31.67	12.98	29.41	306	6	P	H
		5380.48	44.82	-9.18	54	29.6	31.68	12.96	29.42	306	6	A	H
		5023.14	55.5	-18.5	74	39.76	31.6	13.5	29.36	266	203	P	V
		5147.94	45.93	-8.07	54	30.48	31.63	13.2	29.38	266	203	A	V
	*	5190	104.69	-	-	89.34	31.64	13.1	29.39	266	203	P	V
	*	5190	96.32	-	-	80.97	31.64	13.1	29.39	266	203	A	V
		5362.28	53.53	-20.47	74	38.3	31.67	12.97	29.41	266	203	P	V
		5357.24	44.48	-9.52	54	29.24	31.67	12.98	29.41	266	203	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	45.4	-22.8	68.2	49.22	39.51	17.5	60.83	100	0	P	H
		15570	42.96	-31.04	74	44.38	37.8	21.52	60.74	100	0	P	H
													H
													H
		10380	45.17	-23.03	68.2	48.99	39.51	17.5	60.83	100	0	P	V
		15570	43.09	-30.91	74	44.51	37.8	21.52	60.74	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5127.4	57.35	-16.65	74	41.85	31.63	13.25	29.38	288	4	P	H
		5125.84	49.79	-4.21	54	34.28	31.63	13.26	29.38	288	4	A	H
	*	5210	105.49	-	-	90.17	31.64	13.07	29.39	288	4	P	H
	*	5210	96.75	-	-	81.43	31.64	13.07	29.39	288	4	A	H
		5387.76	53.54	-20.46	74	38.32	31.68	12.96	29.42	288	4	P	H
		5351.36	44.92	-9.08	54	29.68	31.67	12.98	29.41	288	4	A	H
		5124.02	56.16	-17.84	74	40.66	31.62	13.26	29.38	248	203	P	V
		5124.54	47.72	-6.28	54	32.22	31.62	13.26	29.38	248	203	A	V
	*	5210	101.29	-	-	85.97	31.64	13.07	29.39	248	203	P	V
	*	5210	92.56	-	-	77.24	31.64	13.07	29.39	248	203	A	V
		5425.84	53.51	-20.49	74	38.2	31.69	13.04	29.42	248	203	P	V
		5370.96	44.39	-9.61	54	29.16	31.67	12.97	29.41	248	203	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	45.6	-22.6	68.2	49.39	39.57	17.53	60.89	100	0	P	H
		15630	43.91	-30.09	74	45.44	37.64	21.53	60.7	100	0	P	H
													H
													H
		10420	44.68	-23.52	68.2	48.47	39.57	17.53	60.89	100	0	P	V
		15630	43.21	-30.79	74	44.74	37.64	21.53	60.7	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac 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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT160 CH 50 5250MHz		5138.06	58.1	-15.9	74	42.62	31.63	13.23	29.38	109	9	P	H
		5143.78	52.04	-1.96	54	36.58	31.63	13.21	29.38	109	9	A	H
	*	5250	99.13	-	-	83.83	31.65	13.05	29.4	109	9	P	H
	*	5250	92.68	-	-	77.38	31.65	13.05	29.4	109	9	A	H
		5384.96	55.24	-18.76	74	40.02	31.68	12.96	29.42	109	9	P	H
		5403.72	49.78	-4.22	54	34.56	31.68	12.96	29.42	109	9	A	H
		5141.96	54.94	-19.06	74	39.47	31.63	13.22	29.38	267	215	P	V
		5143.78	49.35	-4.65	54	33.89	31.63	13.21	29.38	267	215	A	V
	*	5250	96.25	-	-	80.95	31.65	13.05	29.4	267	215	P	V
	*	5250	89.41	-	-	74.11	31.65	13.05	29.4	267	215	A	V
		5395.88	54.29	-19.71	74	39.08	31.68	12.95	29.42	267	215	P	V
		5407.36	47.79	-6.21	54	32.55	31.68	12.98	29.42	267	215	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 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)	Path 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	45.38	-22.82	68.2	49.08	39.7	17.6	61	100	0	P	H
		15750	43.16	-30.84	74	44.91	37.3	21.55	60.6	100	0	P	H
													H
													H
		10500	45.35	-22.85	68.2	49.05	39.7	17.6	61	100	0	P	V
		15750	43.81	-30.19	74	45.56	37.3	21.55	60.6	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5120.7	54.29	-19.71	74	38.78	31.62	13.27	29.38	282	2	P	H
		5034	43.82	-10.18	54	28.09	31.61	13.48	29.36	282	2	A	H
	*	5260	110.62	-	-	95.33	31.65	13.04	29.4	282	2	P	H
	*	5260	102.31	-	-	87.02	31.65	13.04	29.4	282	2	A	H
		5459.52	54.02	-19.98	74	38.6	31.69	13.16	29.43	282	2	P	H
		5425.44	43.47	-10.53	54	28.16	31.69	13.04	29.42	282	2	A	H
		5117.3	53.96	-20.04	74	38.43	31.62	13.28	29.37	243	202	P	V
		5144.5	43.59	-10.41	54	28.13	31.63	13.21	29.38	243	202	A	V
	*	5260	105.74	-	-	90.45	31.65	13.04	29.4	243	202	P	V
	*	5260	97.85	-	-	82.56	31.65	13.04	29.4	243	202	A	V
		5418	53.71	-20.29	74	38.44	31.68	13.01	29.42	243	202	P	V
		5402.16	43.3	-10.7	54	28.08	31.68	12.96	29.42	243	202	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path 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	45.25	-28.75	74	48.86	39.82	17.69	61.12	100	0	P	H
		15780	42.39	-31.61	74	44.46	36.8	21.59	60.46	100	0	P	H
													H
													H
		10520	45.27	-28.73	74	48.88	39.82	17.69	61.12	100	0	P	V
		15780	43.48	-30.52	74	45.55	36.8	21.59	60.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 62 5310MHz		5009.18	53.55	-20.45	74	37.77	31.6	13.54	29.36	102	81	P	H
		5077.86	44.77	-9.23	54	29.15	31.62	13.37	29.37	102	81	A	H
	*	5310	107.13	-	-	91.86	31.66	13.01	29.4	102	81	P	H
	*	5310	99.49	-	-	84.22	31.66	13.01	29.4	102	81	A	H
		5352.72	55.39	-18.61	74	40.15	31.67	12.98	29.41	102	81	P	H
		5350.8	48.9	-5.1	54	33.66	31.67	12.98	29.41	102	81	A	H
		5057.8	54.19	-19.81	74	38.53	31.61	13.42	29.37	239	211	P	V
		5048.28	44.5	-9.5	54	28.82	31.61	13.44	29.37	239	211	A	V
	*	5310	104.08	-	-	88.81	31.66	13.01	29.4	239	211	P	V
	*	5310	96.15	-	-	80.88	31.66	13.01	29.4	239	211	A	V
		5351.52	54.43	-19.57	74	39.19	31.67	12.98	29.41	239	211	P	V
		5350.08	47.04	-6.96	54	31.8	31.67	12.98	29.41	239	211	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 62 5310MHz		10620	44.88	-29.12	74	48.49	39.82	17.69	61.12	100	0	P	H
		15930	42.83	-31.17	74	44.9	36.8	21.59	60.46	100	0	P	H
													H
													H
		10620	45.85	-28.15	74	49.46	39.82	17.69	61.12	100	0	P	V
		15930	42.64	-31.36	74	44.71	36.8	21.59	60.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5147.56	54.59	-19.41	74	39.13	31.63	13.21	29.38	107	81	P	H
		5097.24	44.86	-9.14	54	29.28	31.62	13.33	29.37	107	81	A	H
	*	5290	103.84	-	-	88.56	31.66	13.02	29.4	107	81	P	H
	*	5290	95.78	-	-	80.5	31.66	13.02	29.4	107	81	A	H
		5352.24	56.69	-17.31	74	41.45	31.67	12.98	29.41	107	81	P	H
		5351.76	48.45	-5.55	54	33.21	31.67	12.98	29.41	107	81	A	H
		5068	54.38	-19.62	74	38.74	31.61	13.4	29.37	240	213	P	V
		5065.62	44.69	-9.31	54	29.05	31.61	13.4	29.37	240	213	A	V
	*	5290	101.27	-	-	85.99	31.66	13.02	29.4	240	213	P	V
	*	5290	92.52	-	-	77.24	31.66	13.02	29.4	240	213	A	V
		5354.4	56.94	-17.06	74	41.7	31.67	12.98	29.41	240	213	P	V
		5352	48.34	-5.66	54	33.1	31.67	12.98	29.41	240	213	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)	Path 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	44.77	-23.43	68.2	48.41	39.78	17.66	61.08	100	0	P	H
		15870	42.94	-31.06	74	44.74	37.22	21.56	60.58	100	0	P	H
													H
													H
		10580	44.71	-23.49	68.2	48.35	39.78	17.66	61.08	100	0	P	V
		15870	42.32	-31.68	74	44.12	37.22	21.56	60.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 116 5580MHz		5411.2	52.86	-21.14	74	37.61	31.68	12.99	29.42	329	13	P	H
		5461.36	54.13	-14.07	68.2	38.7	31.69	13.17	29.43	329	13	P	H
		5428.48	43.44	-10.56	54	28.12	31.69	13.05	29.42	329	13	A	H
	*	5580	112.14	-	-	96.2	31.83	13.59	29.48	329	13	P	H
	*	5580	103.99	-	-	88.05	31.83	13.59	29.48	329	13	A	H
		5748.305	54.71	-13.49	68.2	38.11	32.1	14.06	29.56	329	13	P	H
		5370.16	54.57	-19.43	74	39.34	31.67	12.97	29.41	248	214	P	V
		5468.32	52.83	-15.37	68.2	37.38	31.69	13.19	29.43	248	214	P	V
		5355.52	43.26	-10.74	54	28.02	31.67	12.98	29.41	248	214	A	V
	*	5580	108.09	-	-	92.15	31.83	13.59	29.48	248	214	P	V
	*	5580	100.32	-	-	84.38	31.83	13.59	29.48	248	214	A	V
		5753.975	54.94	-13.26	68.2	38.31	32.11	14.08	29.56	248	214	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 116 5580MHz		11160	46.08	-27.92	74	49.33	40.1	18.12	61.47	100	0	P	H
		16740	45.53	-22.67	68.2	42.25	39.76	22.6	59.08	100	0	P	H
													H
													H
		11160	45.84	-28.16	74	49.09	40.1	18.12	61.47	100	0	P	V
		16740	45.65	-22.55	68.2	42.37	39.76	22.6	59.08	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5458.24	54.61	-19.39	74	39.19	31.69	13.16	29.43	100	65	P	H
		5467.6	54.67	-13.53	68.2	39.22	31.69	13.19	29.43	100	65	P	H
		5458.24	45.85	-8.15	54	30.43	31.69	13.16	29.43	100	65	A	H
	*	5510	107.61	-	-	91.99	31.72	13.34	29.44	100	65	P	H
	*	5510	99.39	-	-	83.77	31.72	13.34	29.44	100	65	A	H
		5730.98	55.17	-13.03	68.2	38.65	32.07	14.01	29.56	100	65	P	H
		5458.24	53.49	-20.51	74	38.07	31.69	13.16	29.43	236	183	P	V
		5469.52	53.36	-14.84	68.2	37.9	31.69	13.2	29.43	236	183	P	V
		5458	45.33	-8.67	54	29.91	31.69	13.16	29.43	236	183	A	V
	*	5510	105.09	-	-	89.47	31.72	13.34	29.44	236	183	P	V
	*	5510	97.06	-	-	81.44	31.72	13.34	29.44	236	183	A	V
		5732.87	55.05	-13.15	68.2	38.52	32.07	14.02	29.56	236	183	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	45.45	-28.55	74	48.76	40.19	18	61.5	100	0	P	H
		16530	43.81	-24.39	68.2	42.1	39.01	22.32	59.62	100	0	P	H
													H
													H
		11020	45.08	-28.92	74	48.39	40.19	18	61.5	100	0	P	V
		16530	44.43	-23.77	68.2	42.72	39.01	22.32	59.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac 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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT160 CH 114 5570MHz		5458.24	57.76	-16.24	74	42.34	31.69	13.16	29.43	100	15	P	H
		5467.36	57.7	-10.5	68.2	42.25	31.69	13.19	29.43	100	15	P	H
		5458.48	53.87	-0.13	54	38.45	31.69	13.16	29.43	100	15	A	H
	*	5570	101.24	-	-	85.35	31.81	13.55	29.47	100	15	P	H
	*	5570	94.34	-	-	78.45	31.81	13.55	29.47	100	15	A	H
		5727.2	59.29	-8.91	68.2	42.77	32.06	14	29.54	100	15	P	H
		5454.16	59.6	-14.4	74	44.2	31.69	13.14	29.43	248	215	P	V
		5464	56.32	-11.88	68.2	40.88	31.69	13.18	29.43	248	215	P	V
		5458.96	52.47	-1.53	54	37.05	31.69	13.16	29.43	248	215	A	V
	*	5570	97.99	-	-	82.1	31.81	13.55	29.47	248	215	P	V
	*	5570	91.89	-	-	76	31.81	13.55	29.47	248	215	A	V
		5726.885	55.86	-12.34	68.2	39.34	32.06	14	29.54	248	215	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac 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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT160 CH 114 5570MHz		11140	45.28	-28.72	74	48.53	40.12	18.1	61.47	100	0	P	H
		16710	44.63	-23.57	68.2	41.57	39.66	22.55	59.15	100	0	P	H
													H
													H
		11140	45.09	-28.91	74	48.34	40.12	18.1	61.47	100	0	P	V
		16710	44.87	-23.33	68.2	41.81	39.66	22.55	59.15	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		5451.4	53.97	-20.03	74	38.58	31.69	13.13	29.43	100	12	P	H
		5469.73	53.99	-14.21	68.2	38.53	31.69	13.2	29.43	100	12	P	H
		5378.86	44.28	-9.72	54	29.06	31.68	12.96	29.42	100	12	A	H
	*	5690	104.61	-	-	88.24	32	13.9	29.53	100	12	P	H
	*	5690	96.08	-	-	79.71	32	13.9	29.53	100	12	A	H
		5906.25	55.72	-12.48	68.2	39.16	32.35	13.84	29.63	100	12	P	H
		5370.28	53.3	-20.7	74	38.07	31.67	12.97	29.41	177	154	P	V
		5461.15	52.19	-16.01	68.2	36.76	31.69	13.17	29.43	177	154	P	V
		5369.89	44.32	-9.68	54	29.09	31.67	12.97	29.41	177	154	A	V
	*	5690	98.42	-	-	82.05	32	13.9	29.53	177	154	P	V
	*	5690	90.09	-	-	73.72	32	13.9	29.53	177	154	A	V
		5863.75	55.11	-13.09	68.2	38.46	32.28	13.99	29.62	177	154	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	45.48	-28.52	74	48.64	39.97	18.29	61.42	100	0	P	H
		17070	46.26	-21.94	68.2	40.46	40.97	23.05	58.22	100	0	P	H
													H
													H
		11380	45.94	-28.06	74	49.1	39.97	18.29	61.42	100	0	P	V
		17070	47.15	-21.05	68.2	41.35	40.97	23.05	58.22	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (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. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path 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) + Path 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

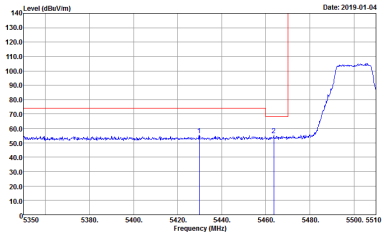
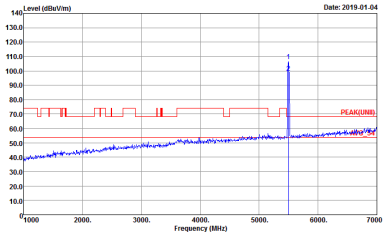
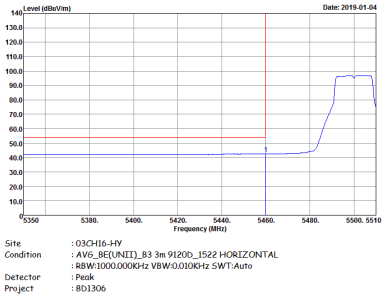
Test Engineer :	Jacky Hung, CR Liro, Andy Liu	**Temperature :**	23~25 ℃
		Relative Humidity :	55~57 %

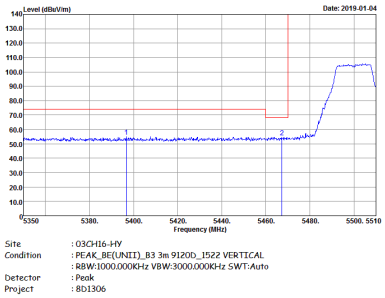
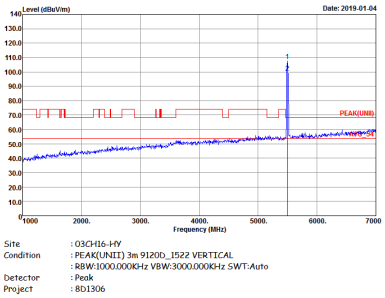
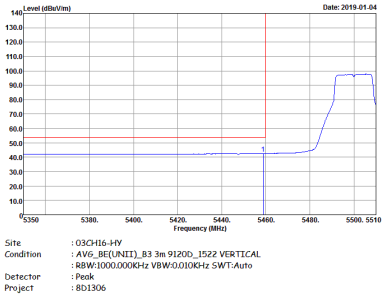
Note symbol

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

Band 3 - 5470~5725MHz

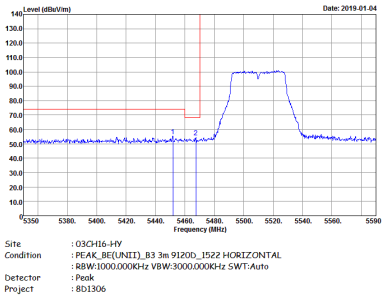
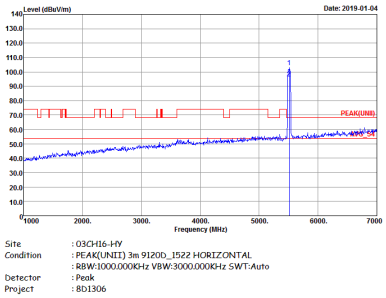
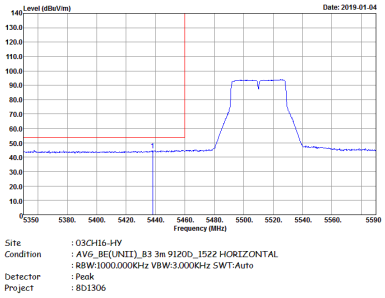
WIFI 802.11a (Band Edge @ 3m)

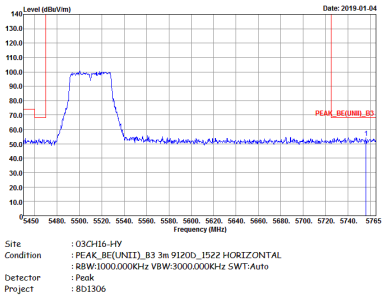
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

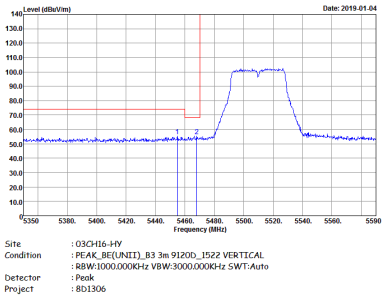
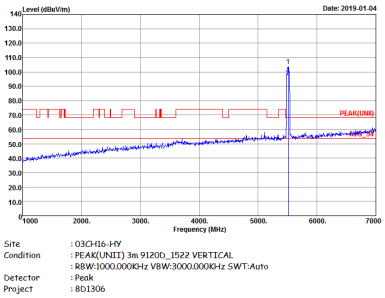
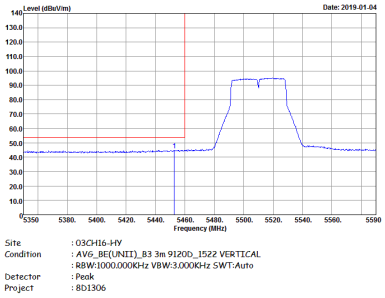
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

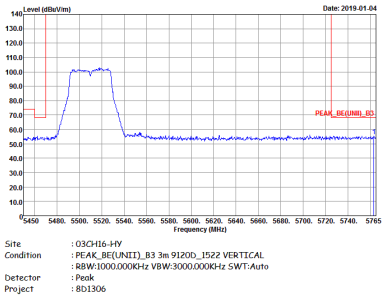
Band 3 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

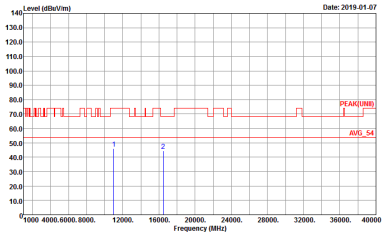
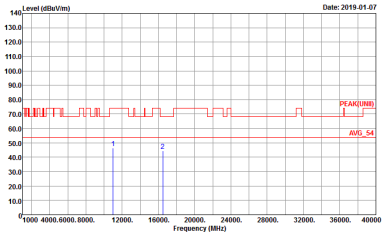
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

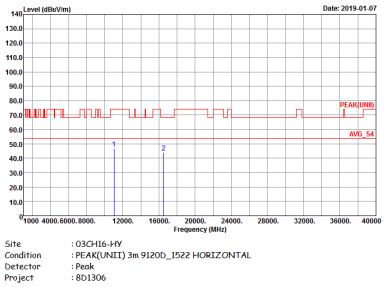
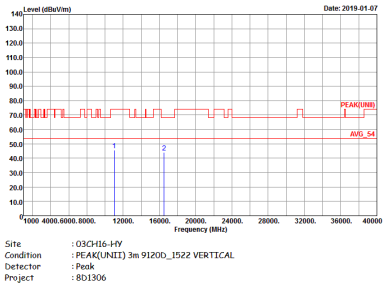
Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

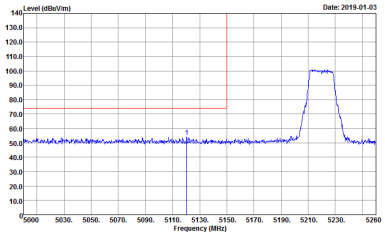
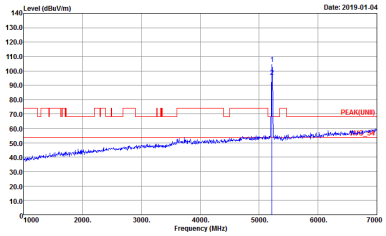
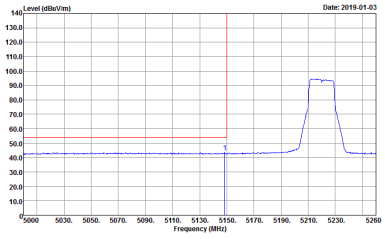
Band 3 5470~5725MHz

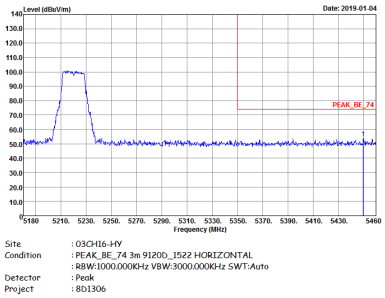
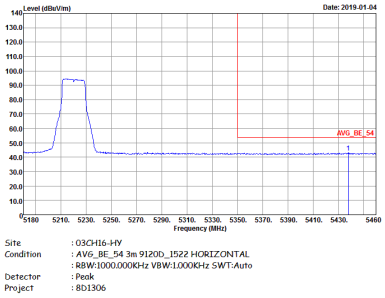
WIFI 802.11n HT40 (Harmonic @ 3m)

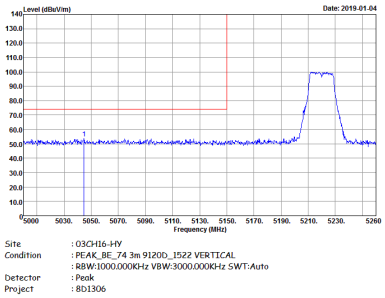
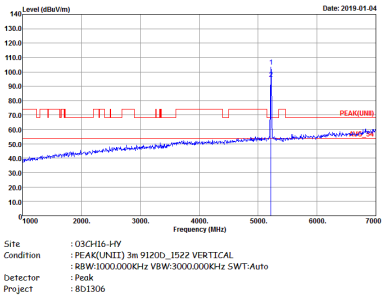
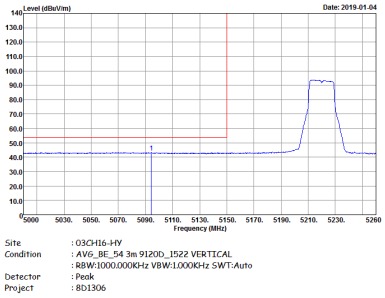
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

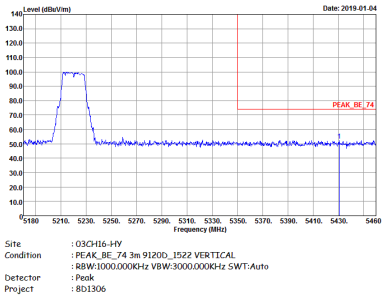
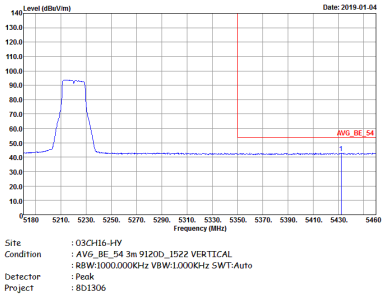
Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

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

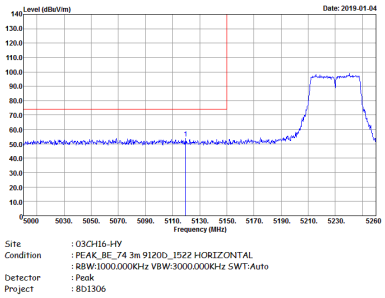
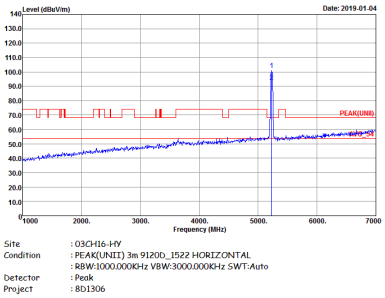
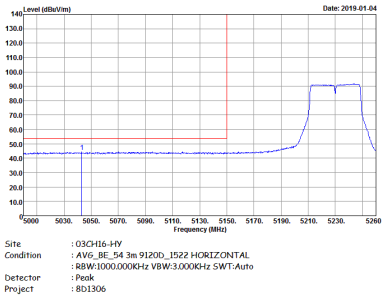
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

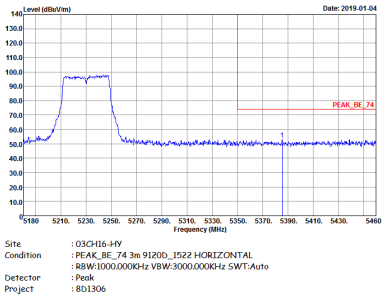
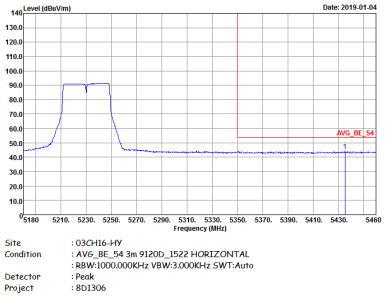
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

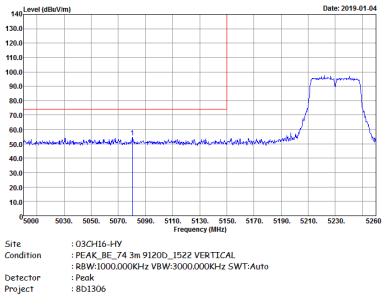
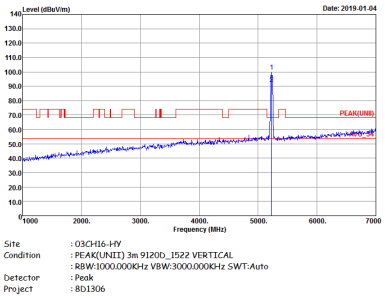
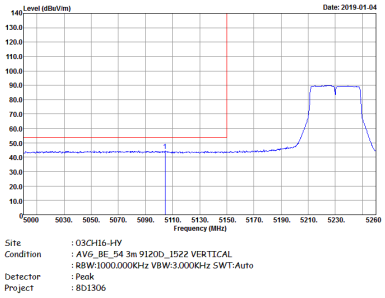
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

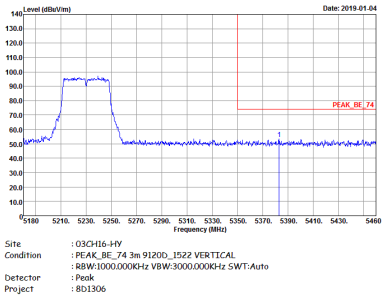
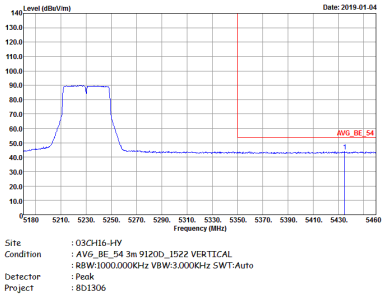
Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

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

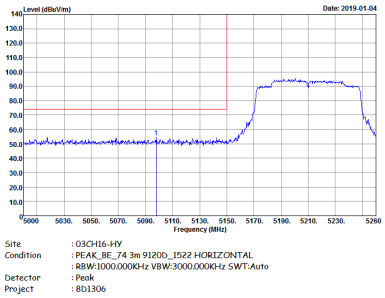
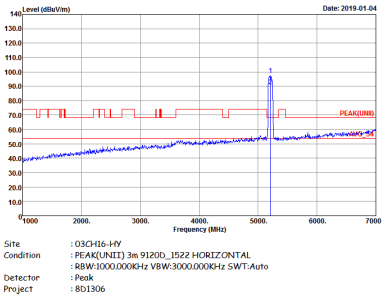
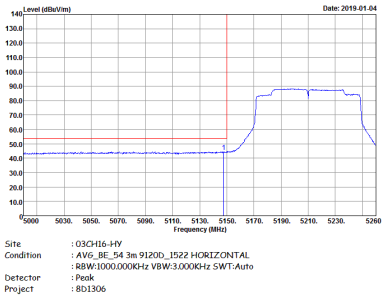
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

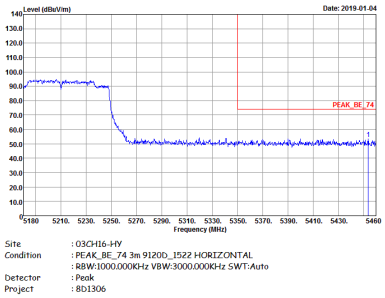
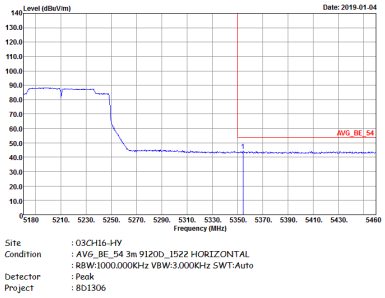
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

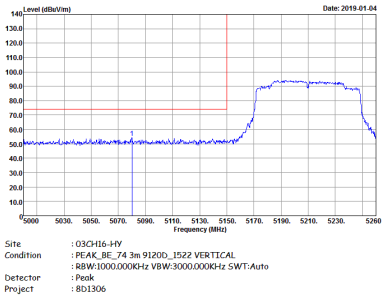
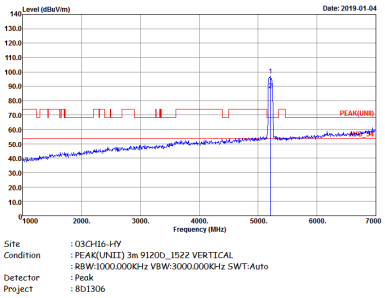
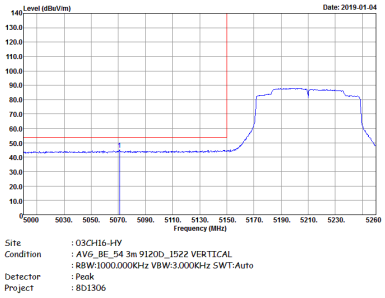
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

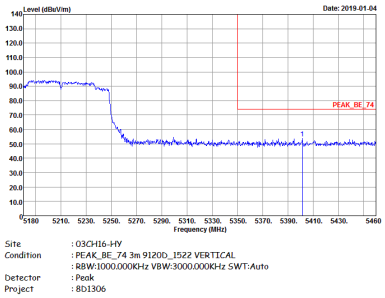
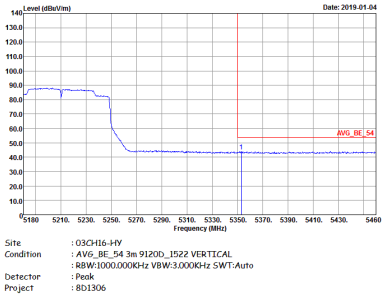
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

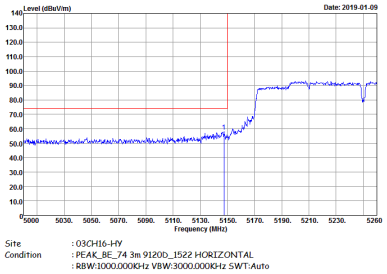
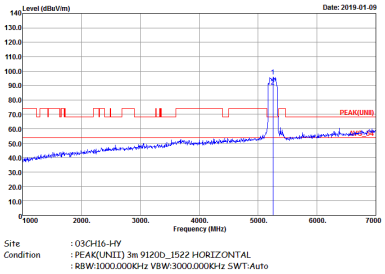
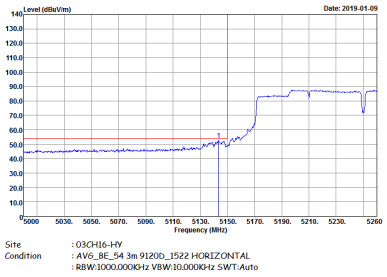
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

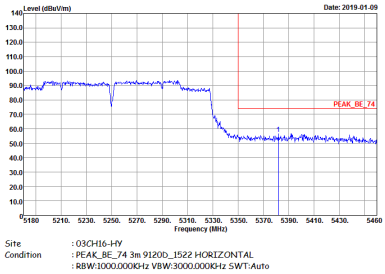
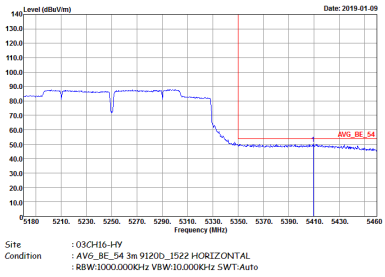
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

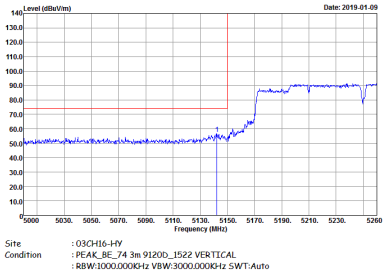
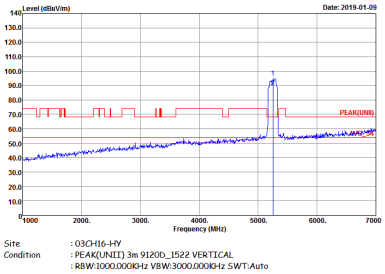
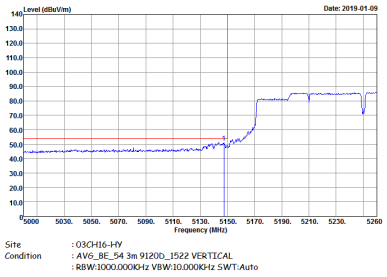
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

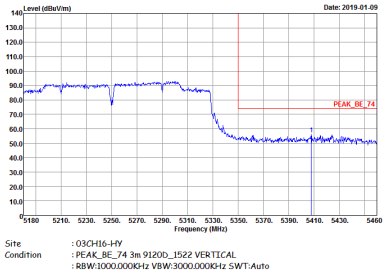
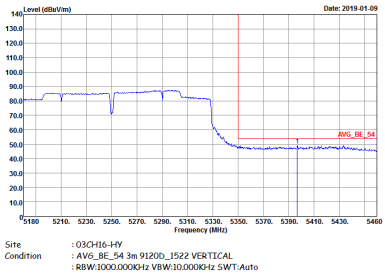
Band 1 5150~5250MHz

WIFI 802.11ac VHT160 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

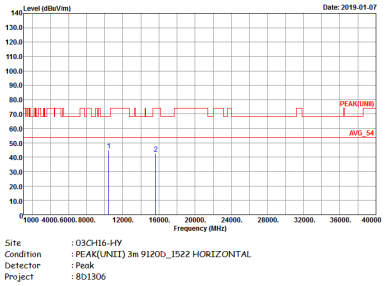
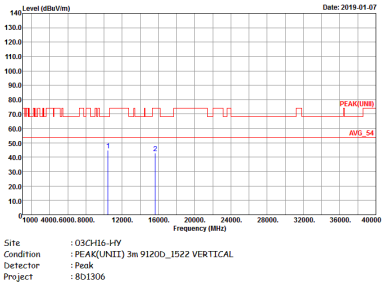
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

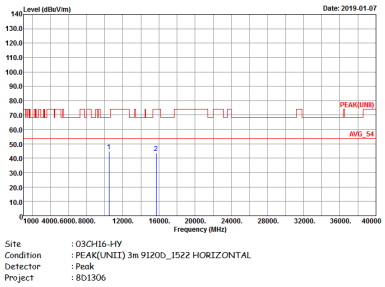
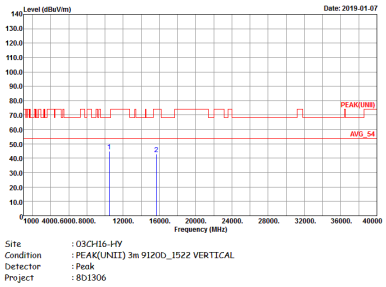
Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

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

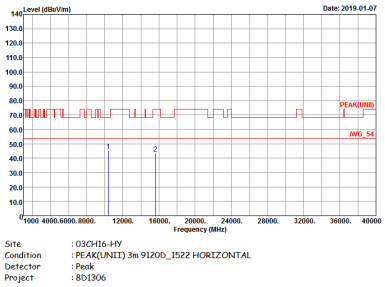
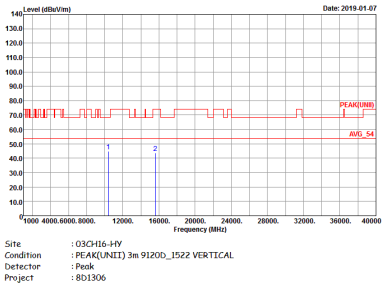
Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

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

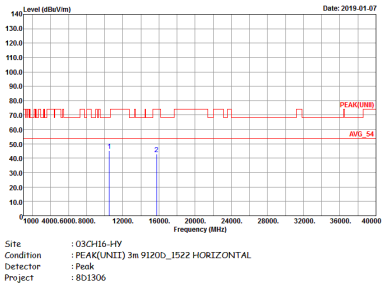
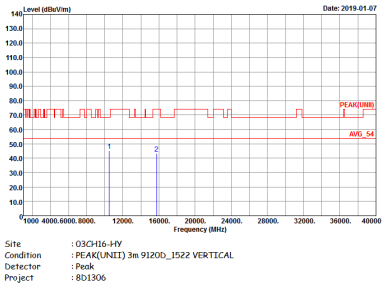
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

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

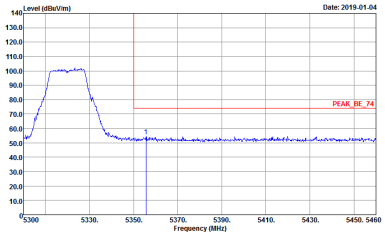
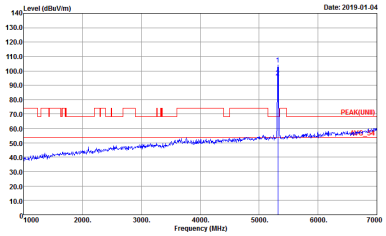
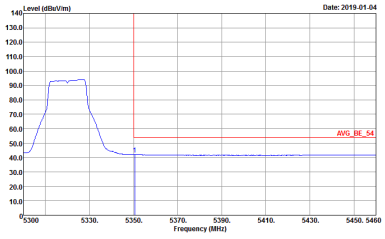
Band 1 5150~5250MHz

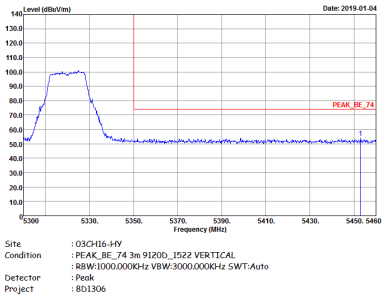
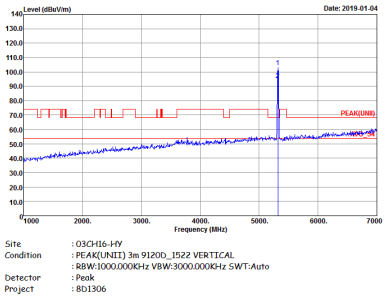
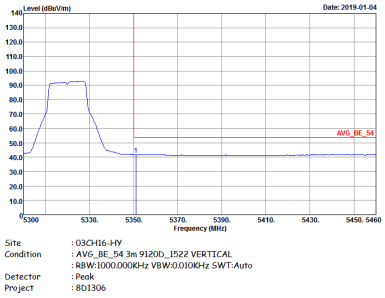
WIFI 802.11ac VHT160 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 2 - 5250~5350MHz

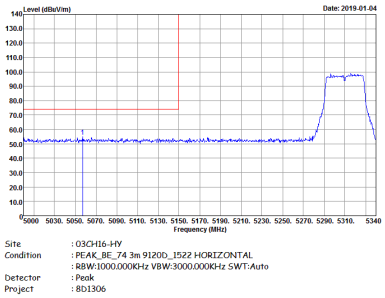
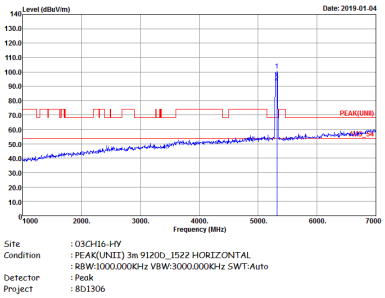
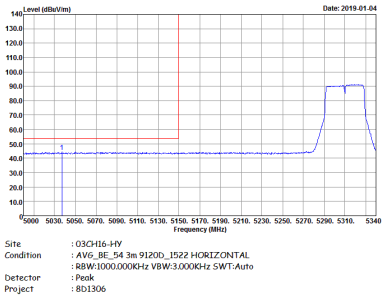
WIFI 802.11a (Band Edge @ 3m)

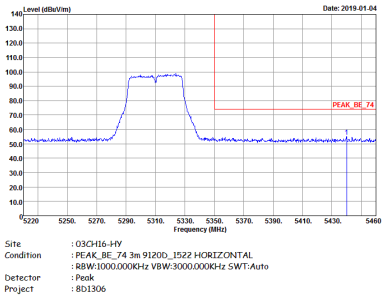
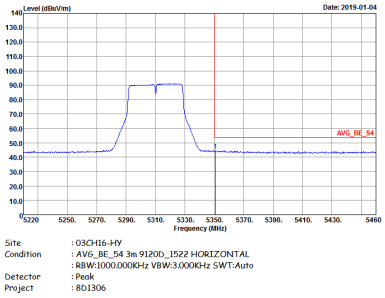
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

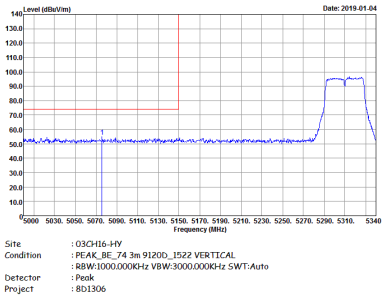
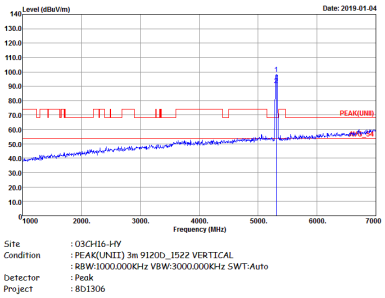
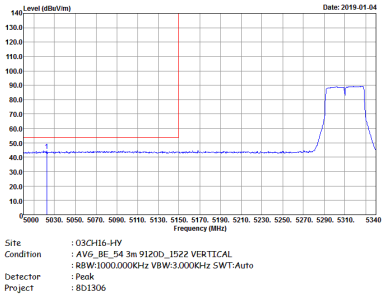
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

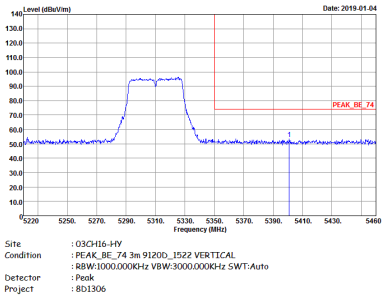
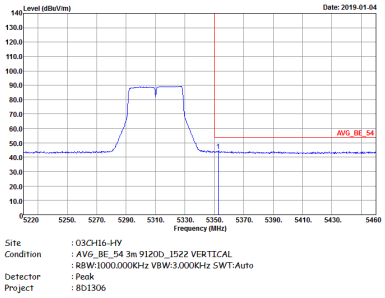
Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

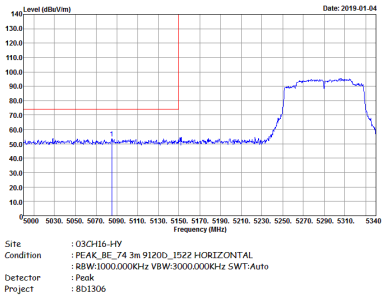
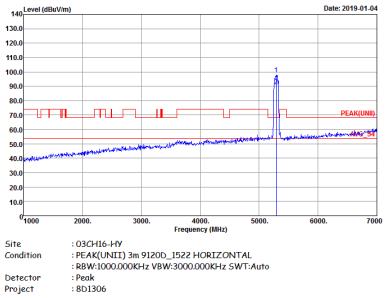
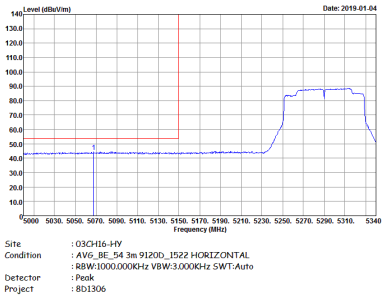
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

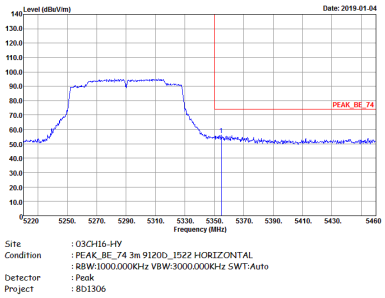
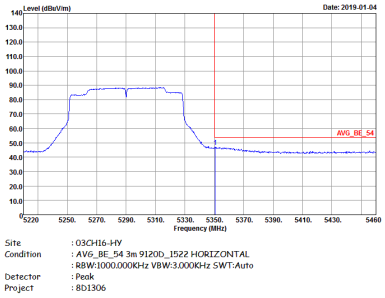
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

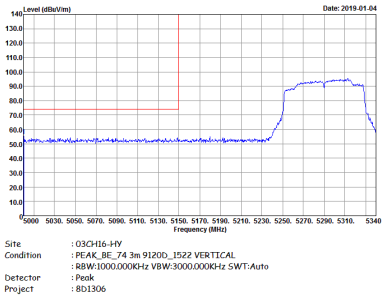
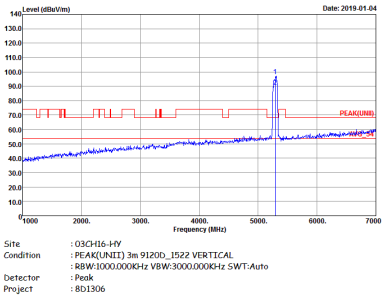
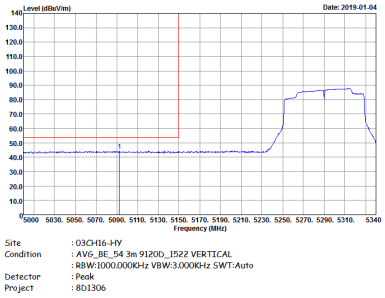
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

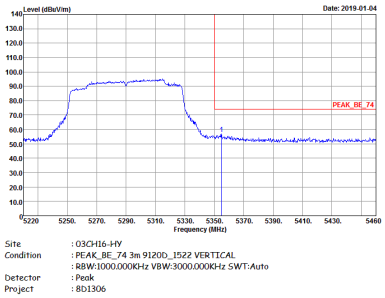
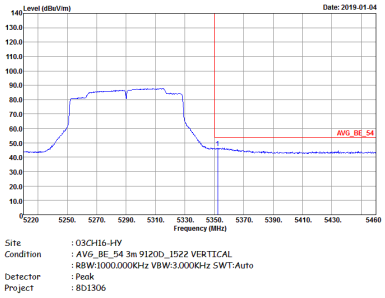
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

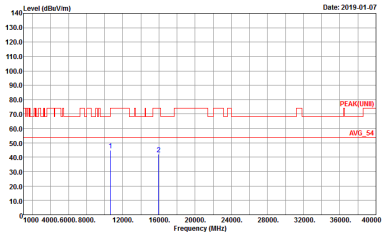
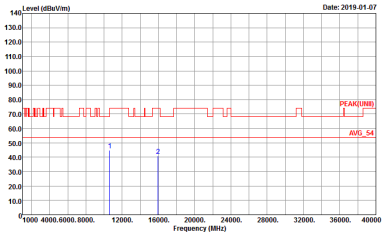
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

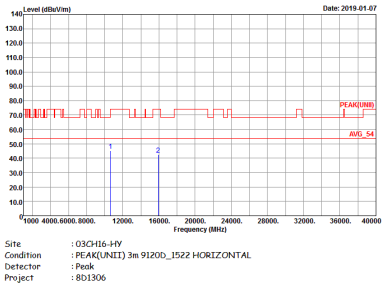
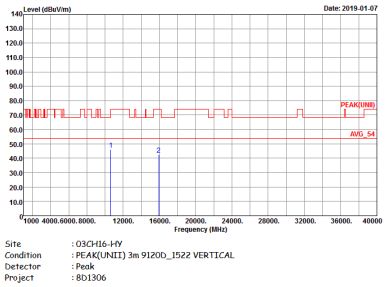
Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.		

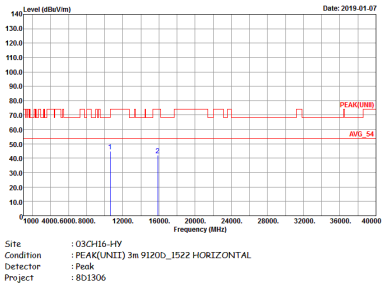
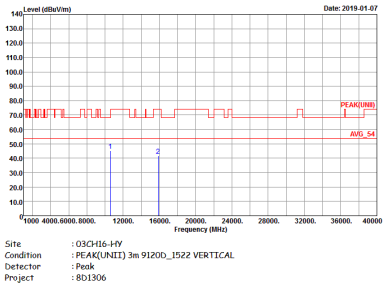
Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
2	Horizontal	Vertical
Peak Avg.		

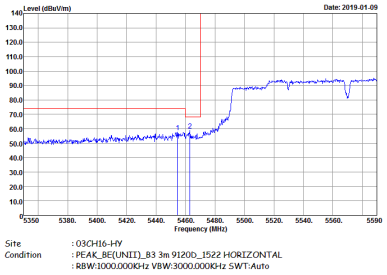
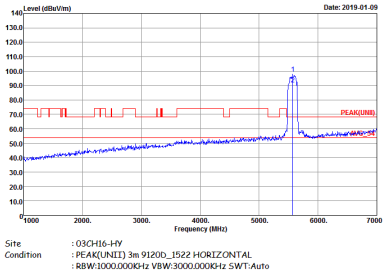
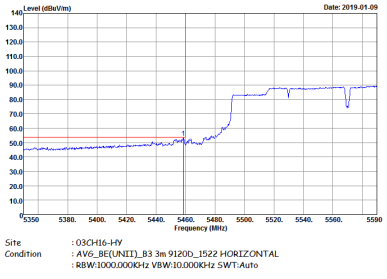
Band 2 5250~5350MHz

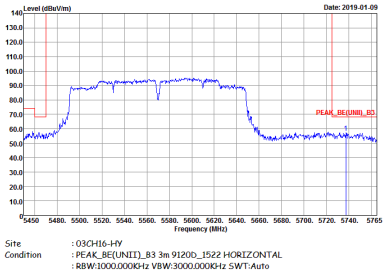
WIFI 802.11ac VHT80 (Harmonic @ 3m)

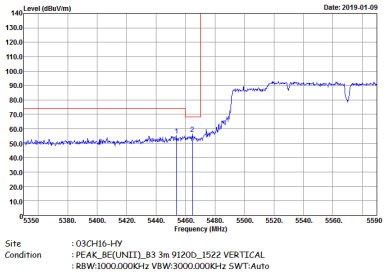
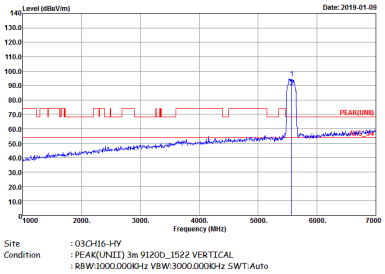
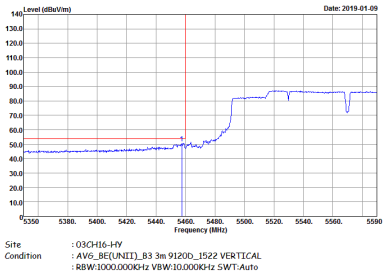
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
2	Horizontal	Vertical
Peak Avg.		

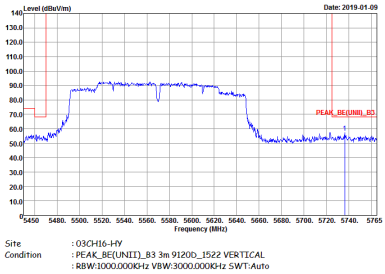
Band 3 - 5470~5725MHz

WIFI 802.11ac VHT160 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH114 5570MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

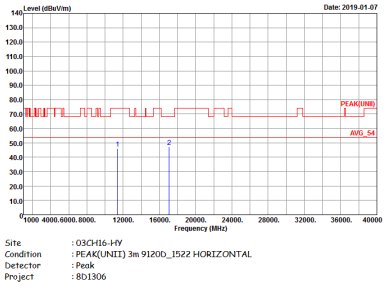
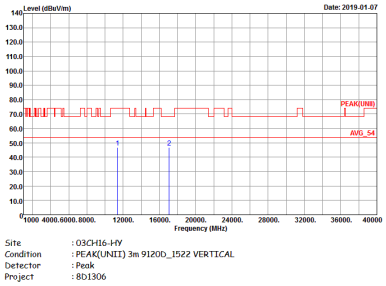
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH114 5570MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH114 5570MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH114 5570MHz - R	
2	Vertical	Fundamental
Peak		Left blank

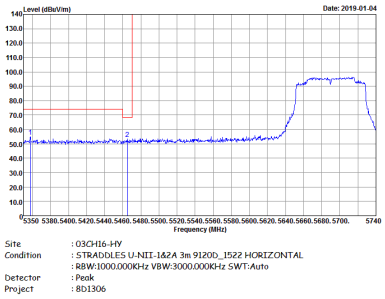
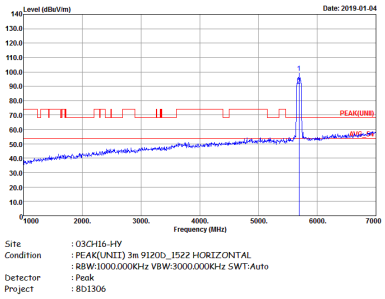
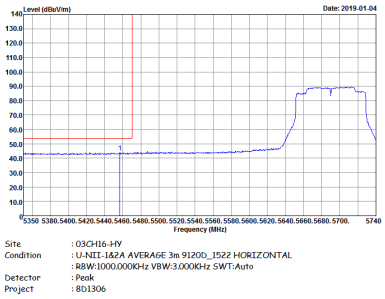
Band 3 - 5470~5725MHz

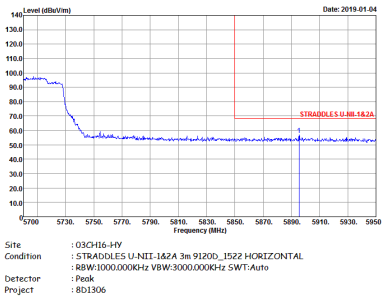
WIFI 802.11ac VHT160 (Harmonic @ 3m)

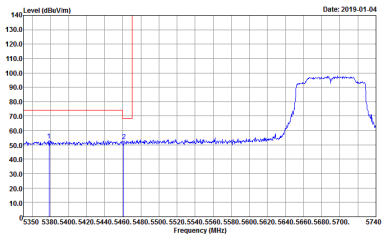
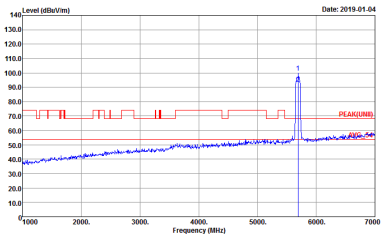
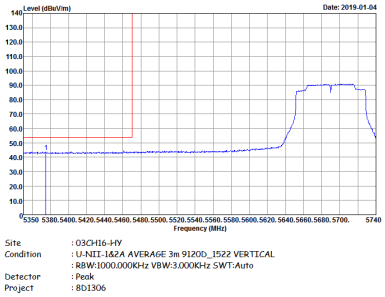
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT160 CH114 5570MHz	
2	Horizontal	Vertical
Peak Avg.	 	

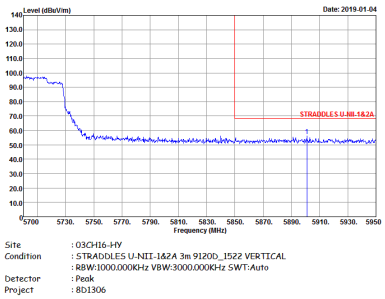
Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

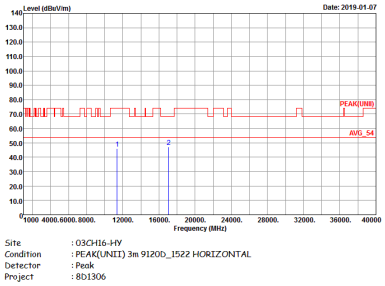
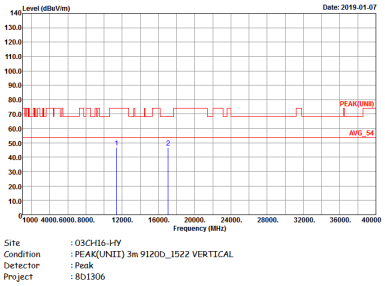
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - R	
2	Vertical	Fundamental
Peak		Left blank

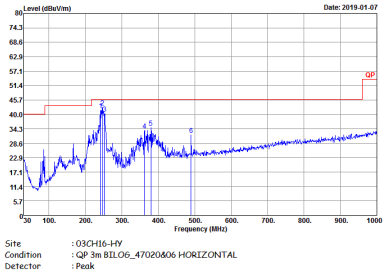
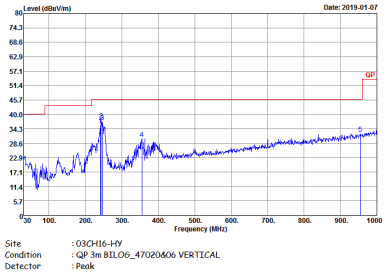
Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
2	Horizontal	Vertical
Peak Avg.		

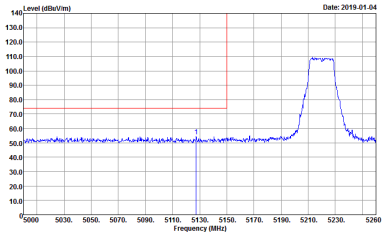
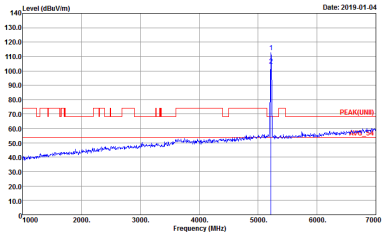
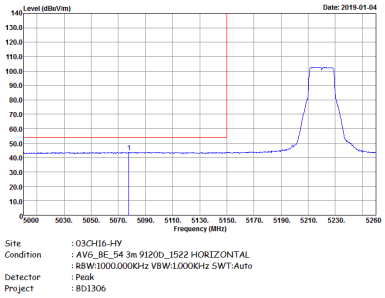
Emission below 1GHz

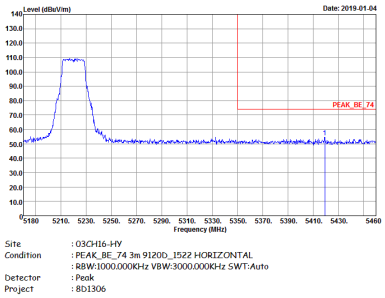
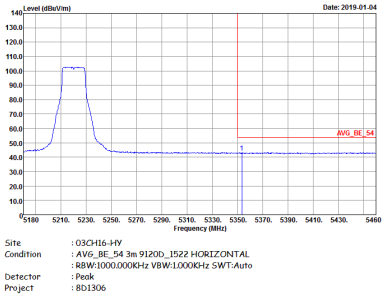
5GHz WIFI 802.11ac VHT160 (LF)

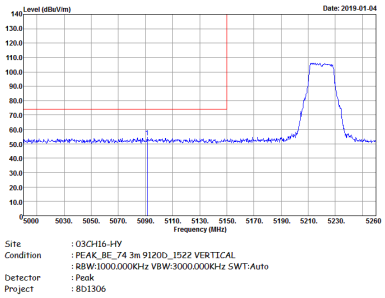
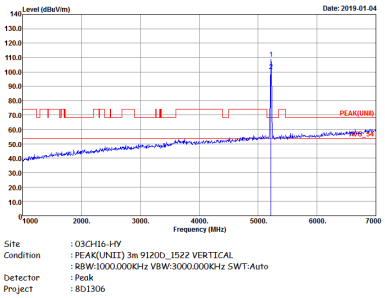
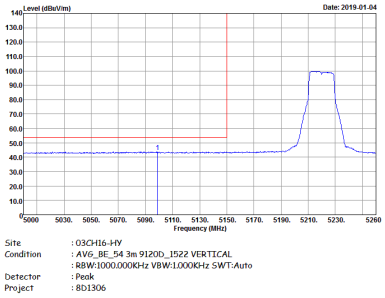
WIFI	5GHz WIFI	
ANT	802.11ac VHT160 LF	
2	Horizontal	Vertical
QP / Peak		

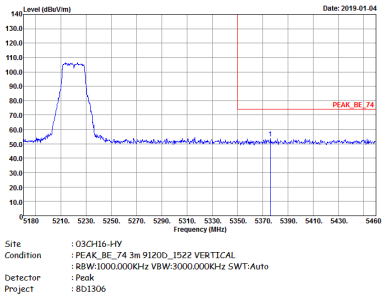
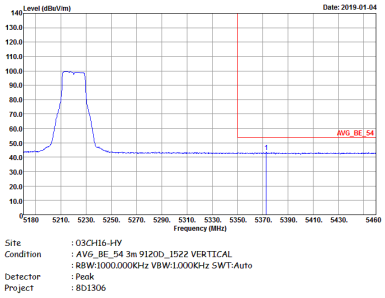
Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

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

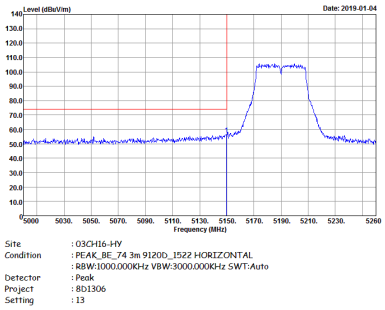
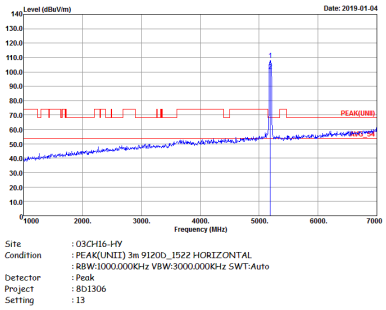
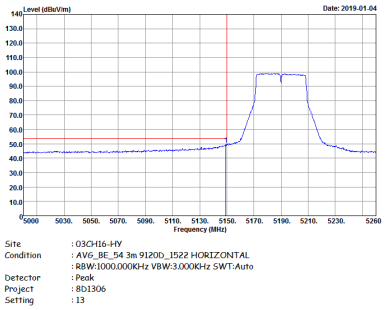
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

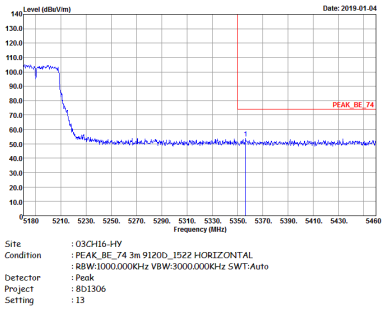
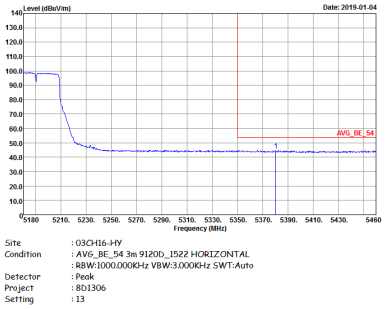
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

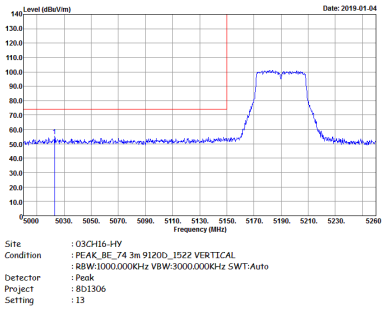
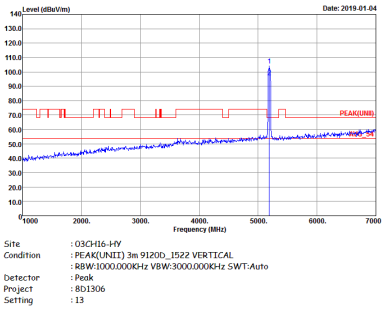
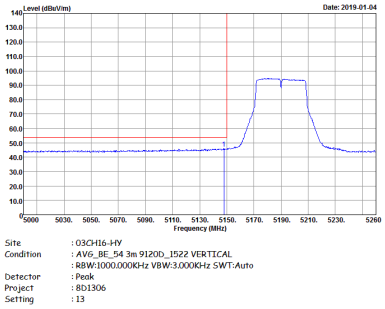
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

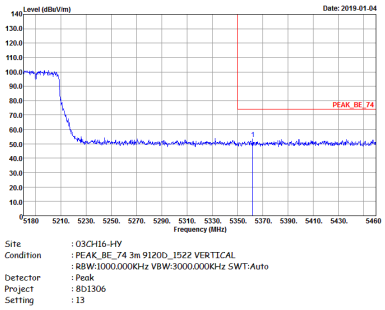
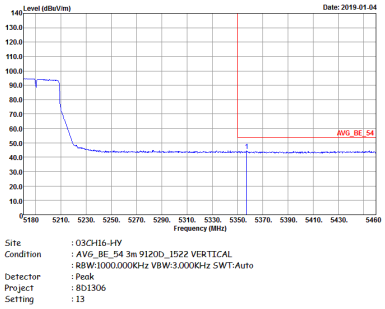
Band 1 5150~5250MHz

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

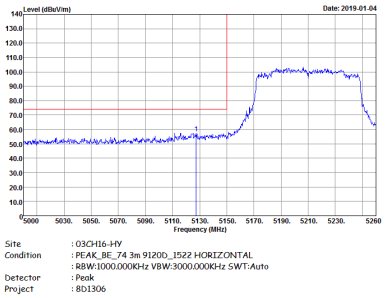
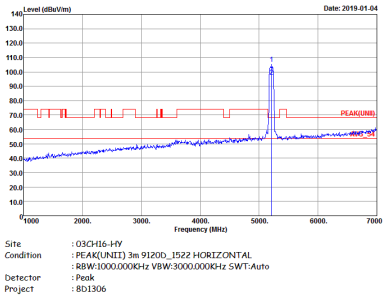
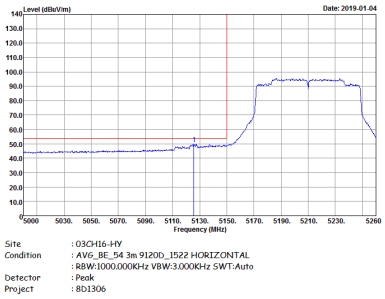
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

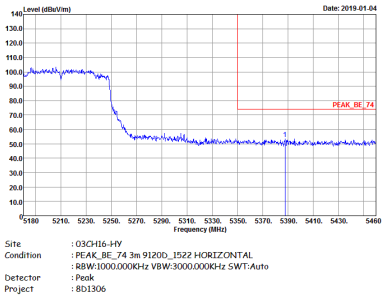
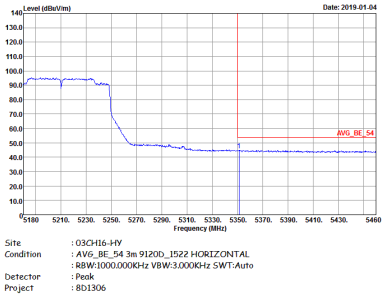
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

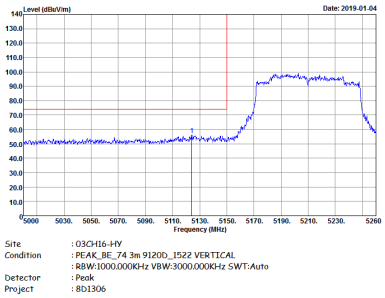
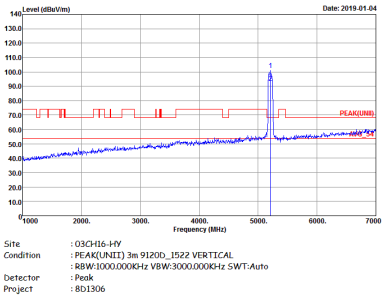
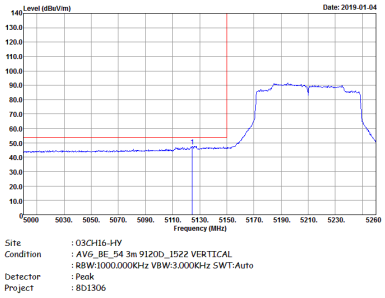
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

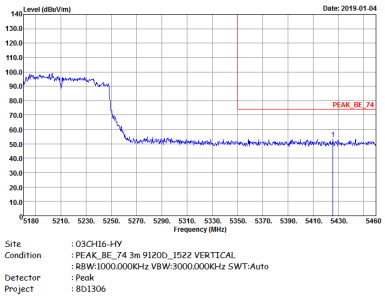
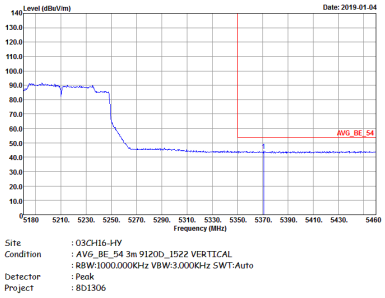
Band 1 5150~5250MHz

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

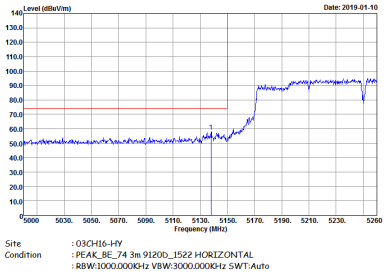
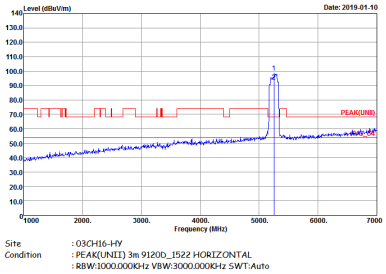
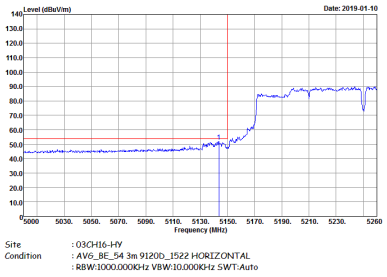
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

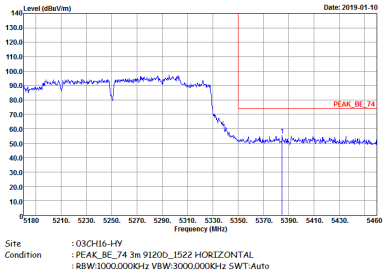
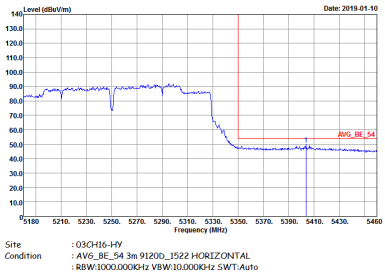
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

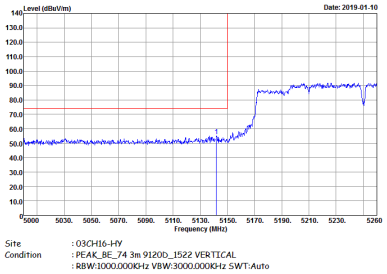
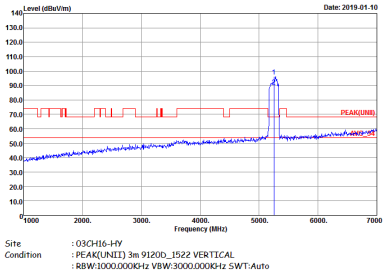
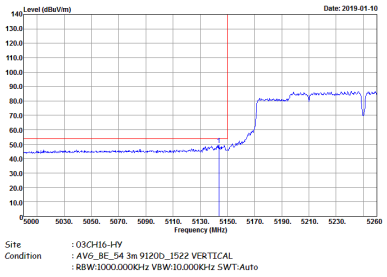
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

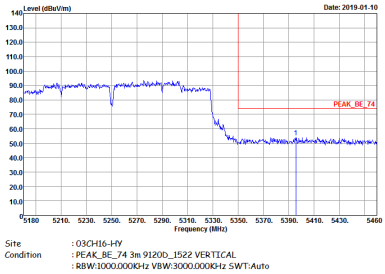
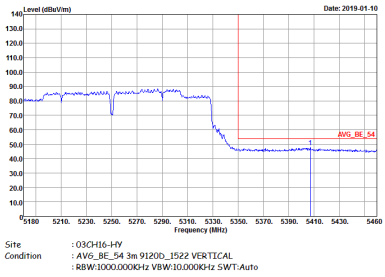
Band 1 5150~5250MHz

WIFI 802.11ac VHT160 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

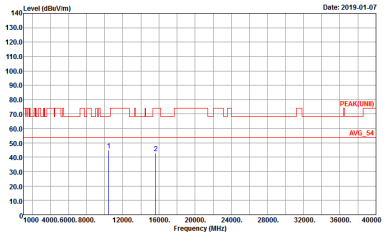
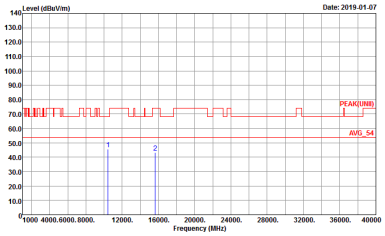
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

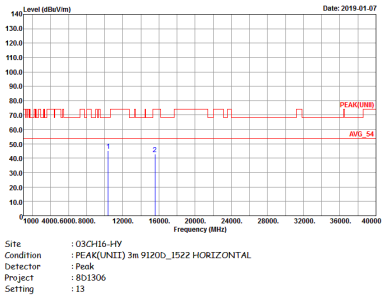
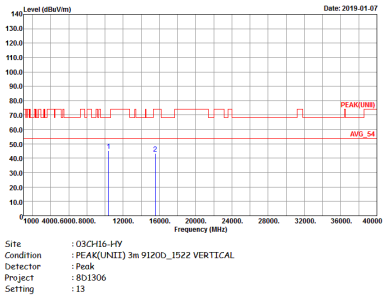
Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

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

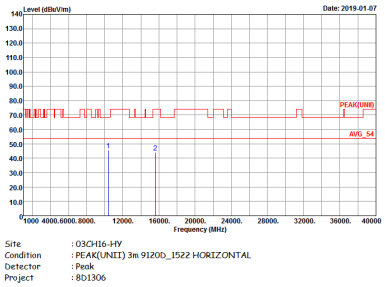
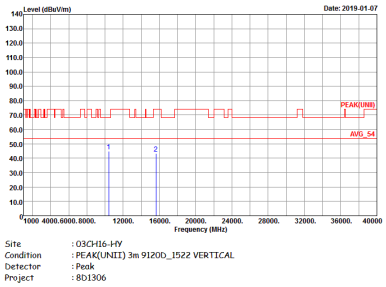
Band 1 5150~5250MHz

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.		

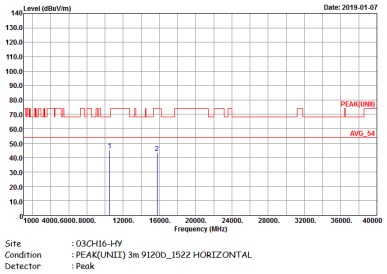
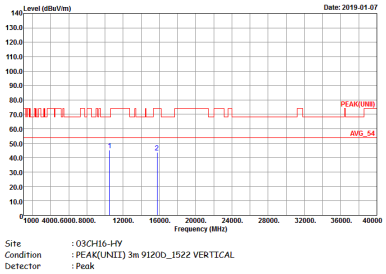
Band 1 5150~5250MHz

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.		

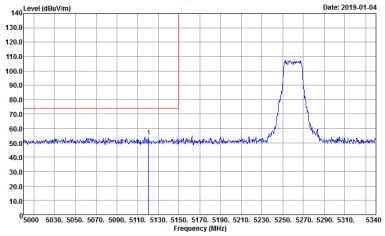
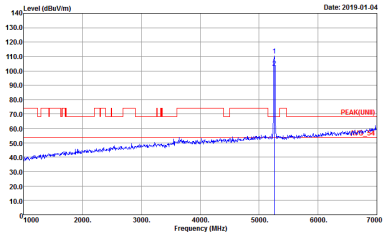
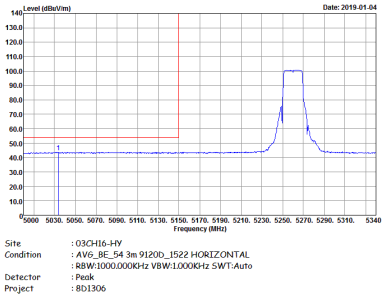
Band 1 5150~5250MHz

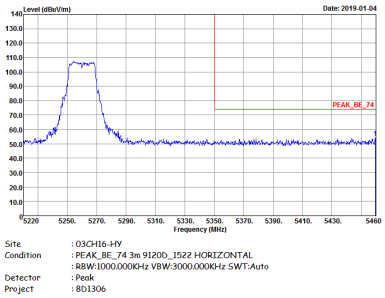
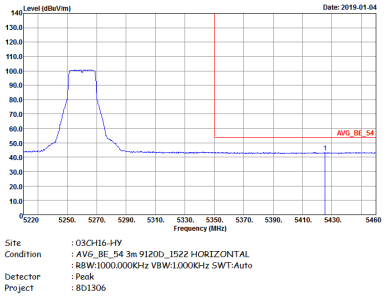
WIFI 802.11ac VHT160 (Harmonic @ 3m)

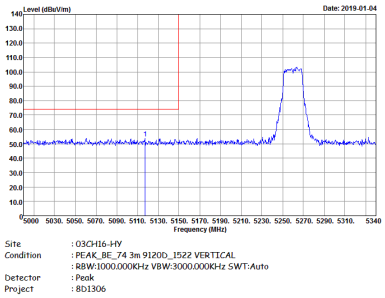
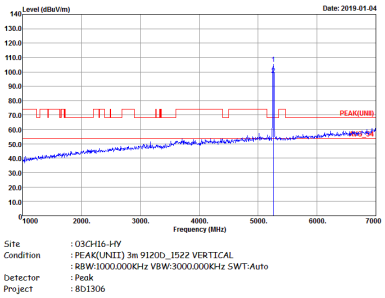
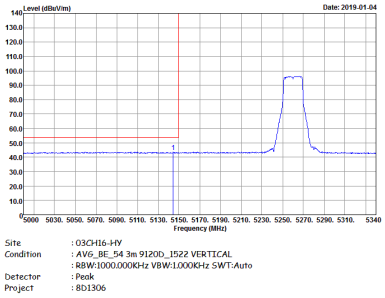
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT160 CH50 5250MHz	
1+2	Horizontal	Vertical
Peak Avg.		

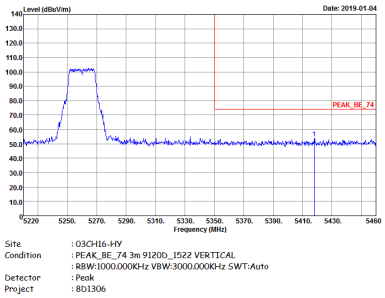
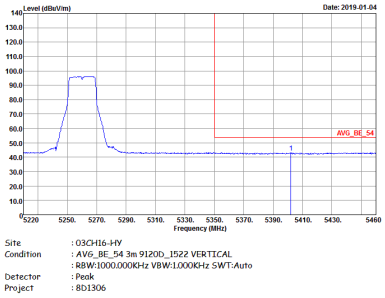
Band 2 - 5250~5350MHz

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

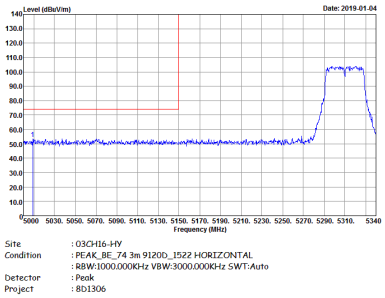
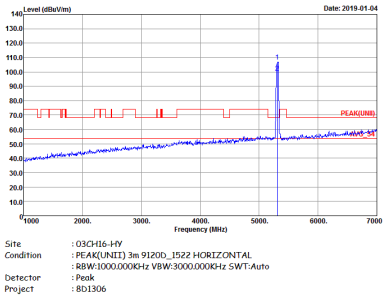
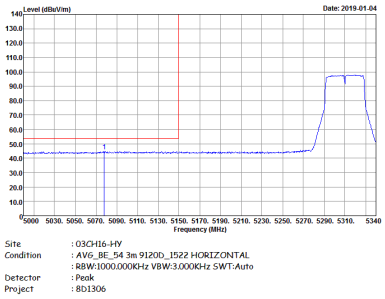
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

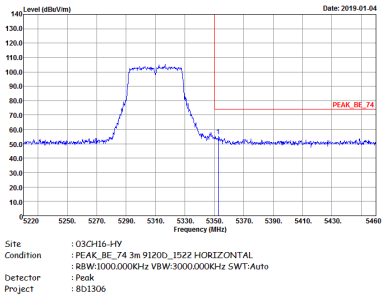
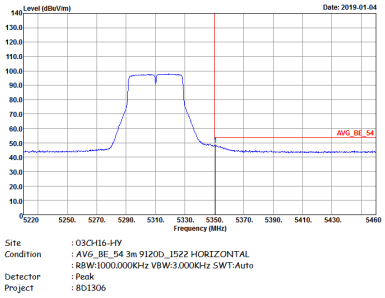
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

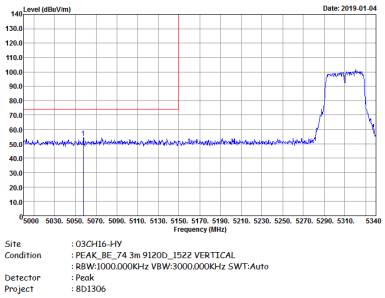
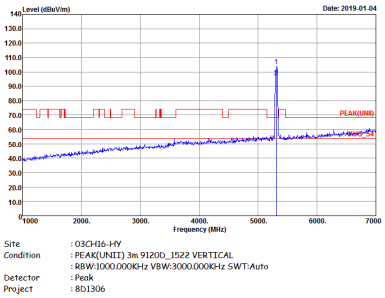
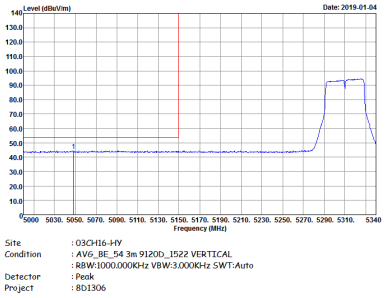
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

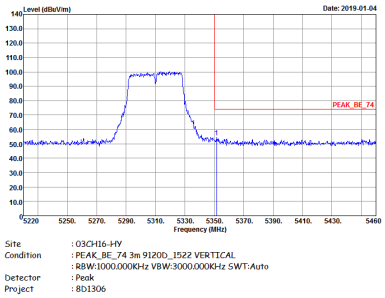
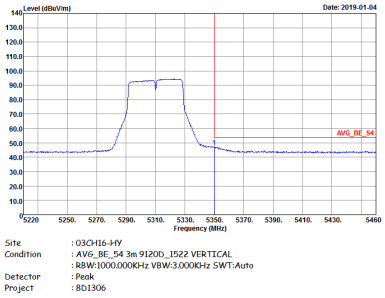
Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

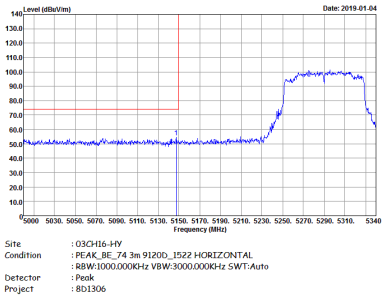
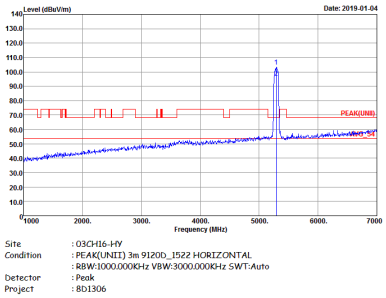
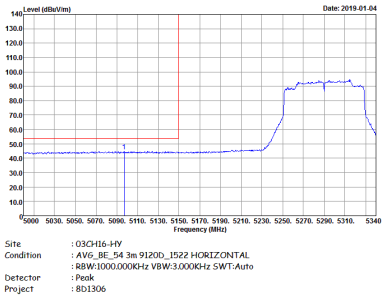
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

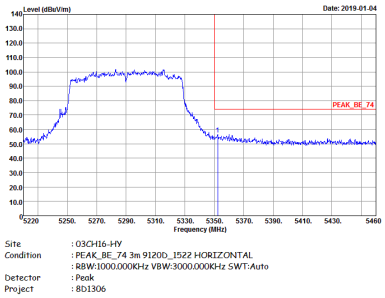
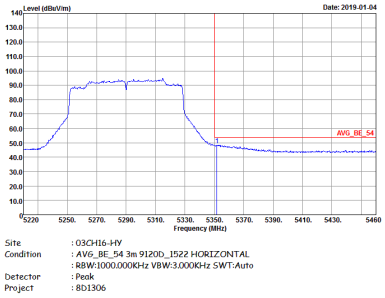
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

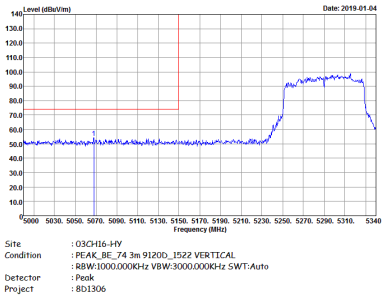
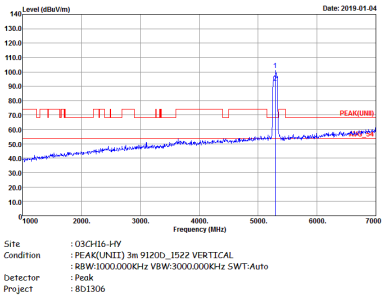
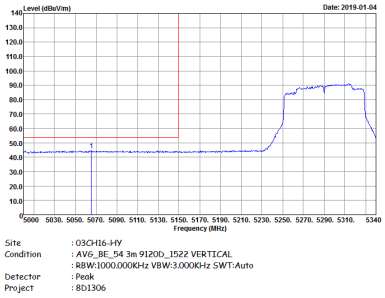
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

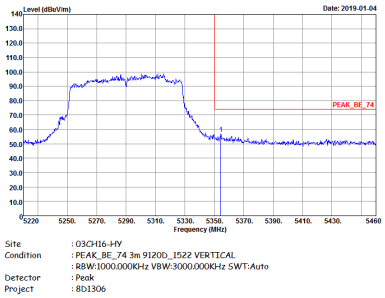
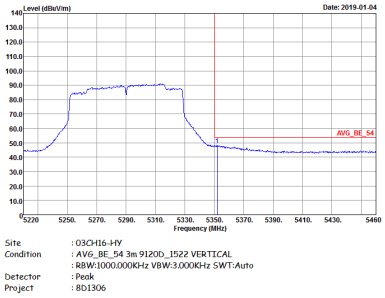
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

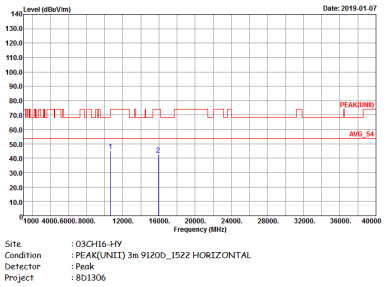
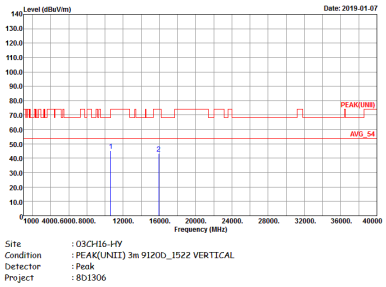
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

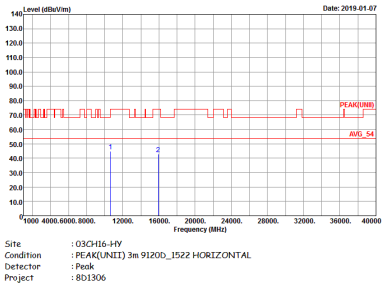
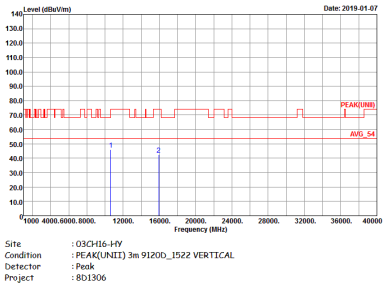
Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

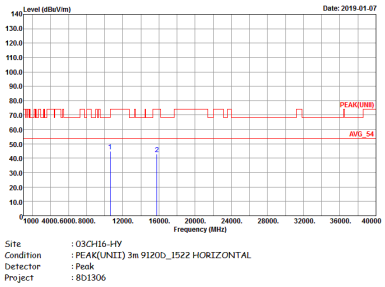
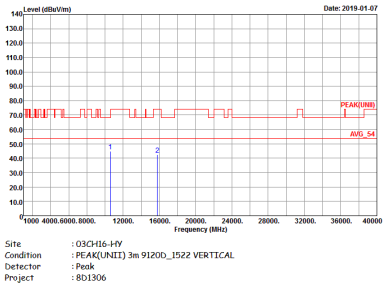
Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.		

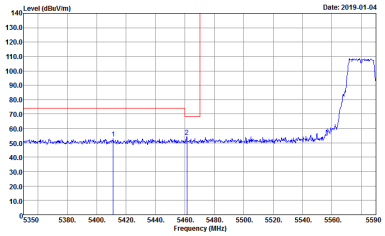
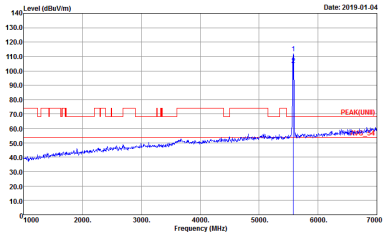
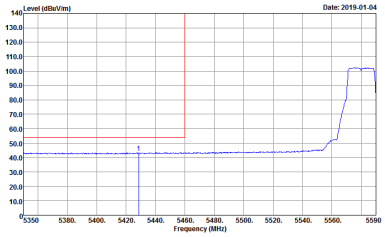
Band 2 5250~5350MHz

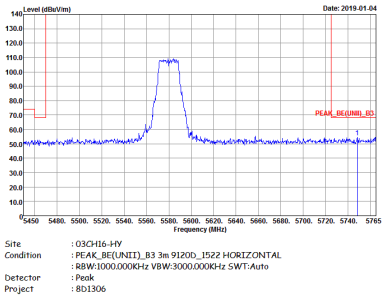
WIFI 802.11ac VHT80 (Harmonic @ 3m)

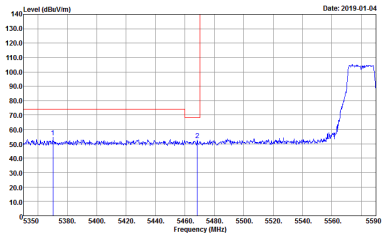
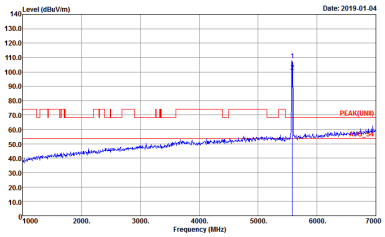
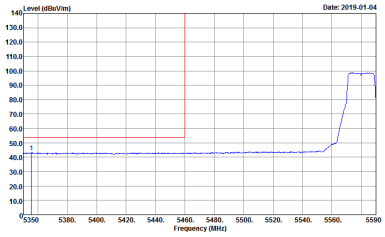
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8D1306	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8D1306
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNII)_B3 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8D1306	Left blank