FCC RADIO TEST REPORT

FCC ID	:	**B32P630**
Equipment	:	**Point of Sales Terminal**
Brand Name	:	**Verifone**
Model Name	:	**P630**
Applicant	:	**Verifone, Inc.** **1400 West Stanford Ranch Road, Suite 200, Rocklin CA 95765 USA**
Manufacturer	:	**Verifone, Inc.**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on May 18, 2021 and testing was started from Jun. 01, 2021 and completed on Jul. 07, 2021. 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 test results in this 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.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR0O2036-01E	01	Initial issue of report	Jul. 16, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 2.24 dB at 5727.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 12.99 dB at 0.499 MHz
3.6	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: Yun Huang

Report Producer: Tina Chuang

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN: FPC Antenna Bluetooth: FPC Antenna NFC: Loop Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	2.89
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	3.10
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	3.98

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

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. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY, CO05-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH15-HY (TAF Code: 3786)
Remark:	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

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

FCC designation No.: TW1190 and TW3786

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.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

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). The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane as worst plane.

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
	-	-		

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
	-	-		

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
	-	-	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Note: The above Frequency and Channel in "*" were 802.11n HT40

2.2 Test Mode

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

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1: WLAN (5GHz) Link + Bluetooth Link + NFC On + TC 1 + Adapter
Remark: TC 1 stands for test configuration, and consists of *EUT*: TF Card, SAM-1 Card and SAM-2 Card Link. *Dongle 1*: RJ45 (Load), USB 2.0 (Load), Mini USB (Load) and RS232 (Load).	

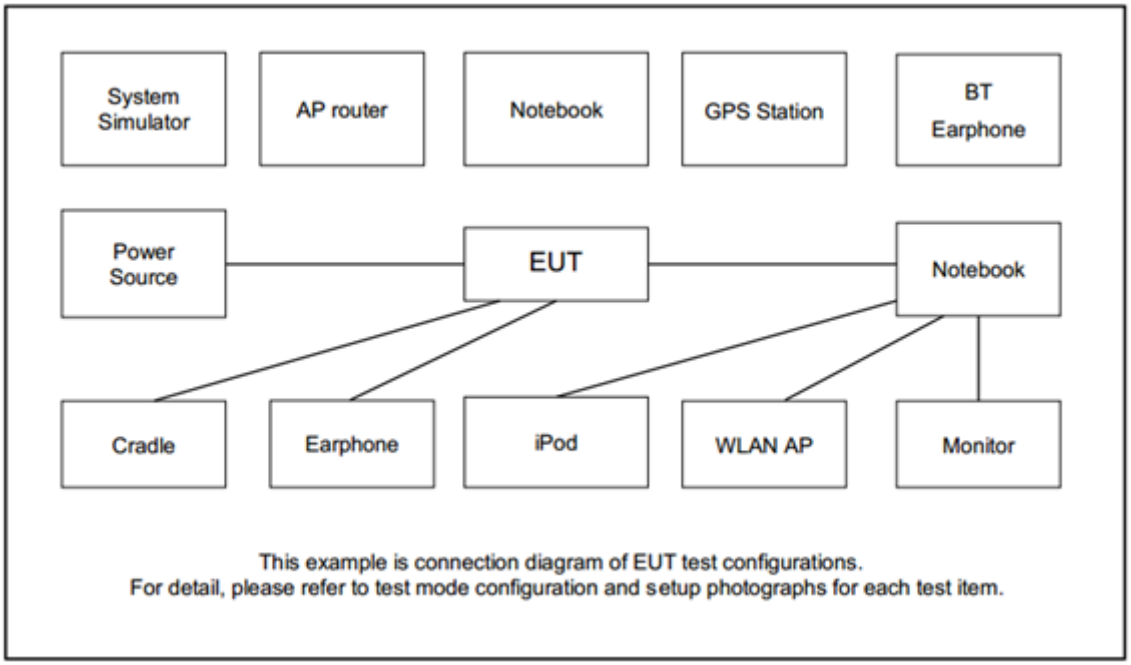
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

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

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	SAM Card	N/A	N/A	N/A	N/A	N/A
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	RJ45 Cable	N/A	N/A	N/A	Unshielded, 1.2m	N/A
7.	USB Cable	N/A	N/A	N/A	Unshielded, 1.0m	N/A
8.	Mini USB Cable	N/A	N/A	N/A	Unshielded, 1.0m	N/A
9.	RS232 Cable	N/A	N/A	N/A	Unshielded, 1.2m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 3.0.246.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

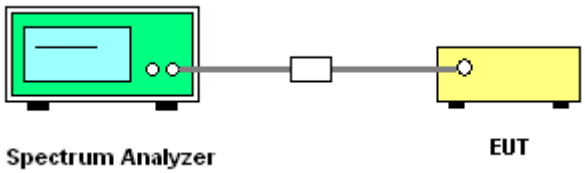
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

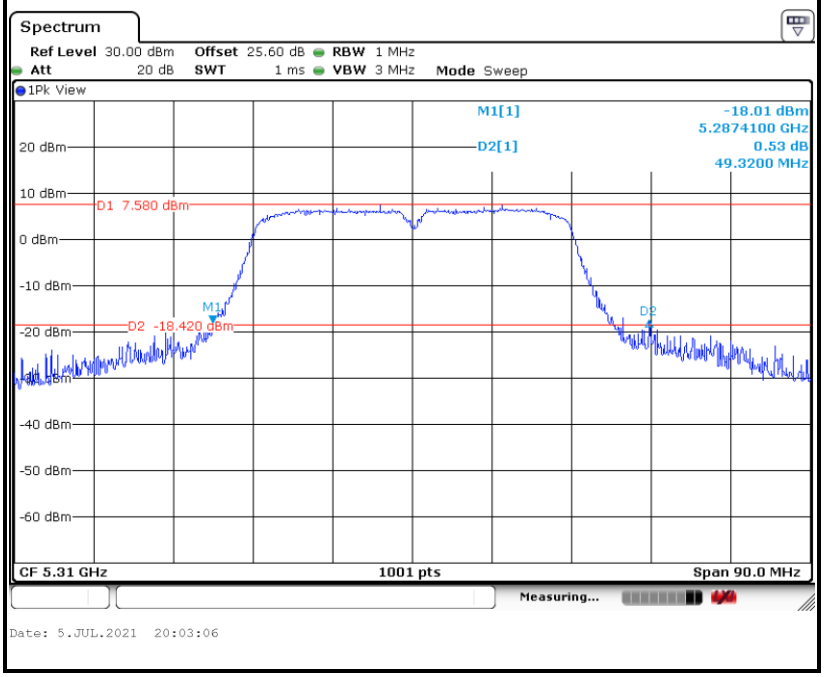
3.1.4 Test Setup



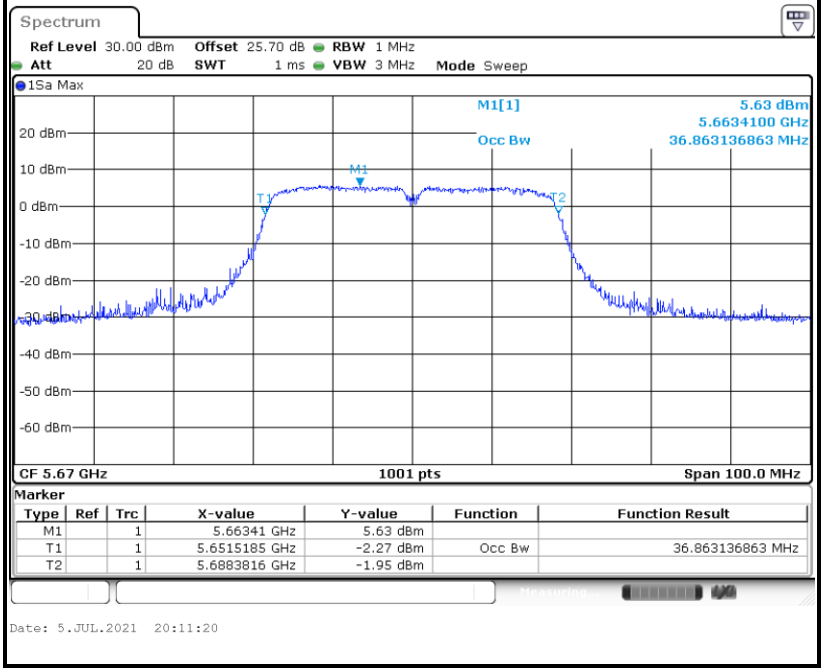
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For 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.

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

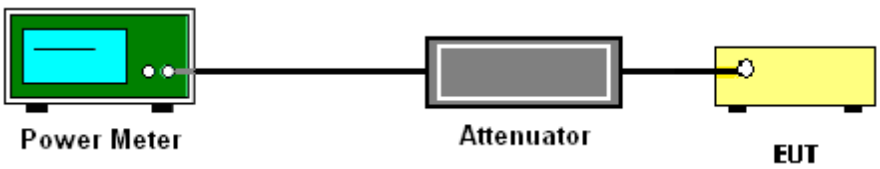
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

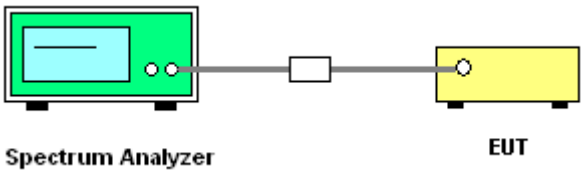
 # Method SA-3 #

(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × 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.
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

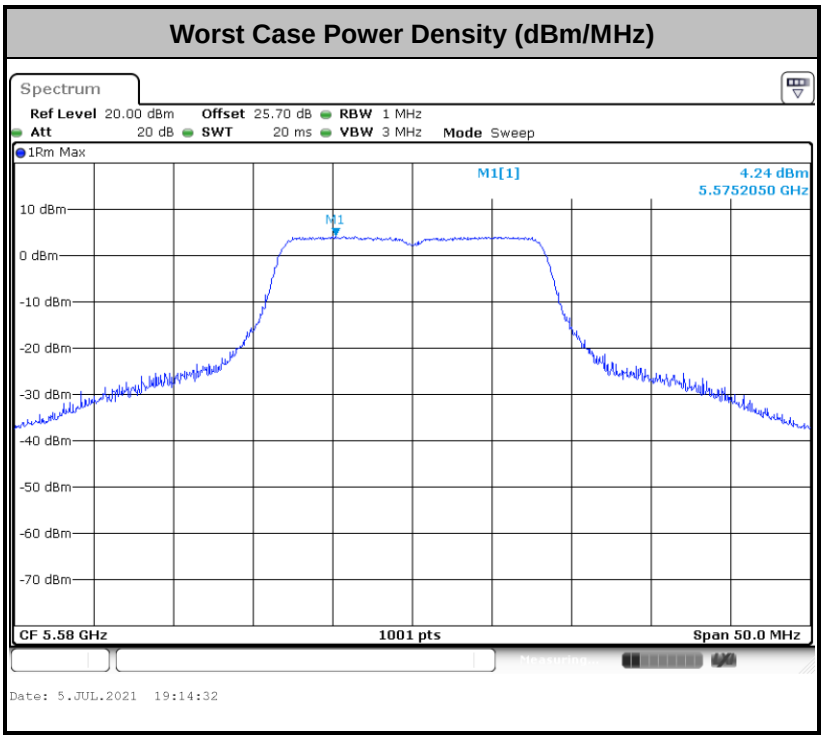
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.
(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- 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

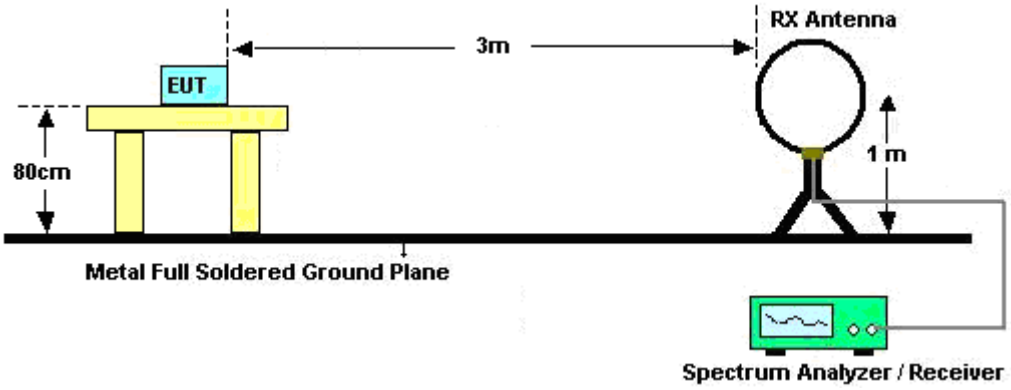
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

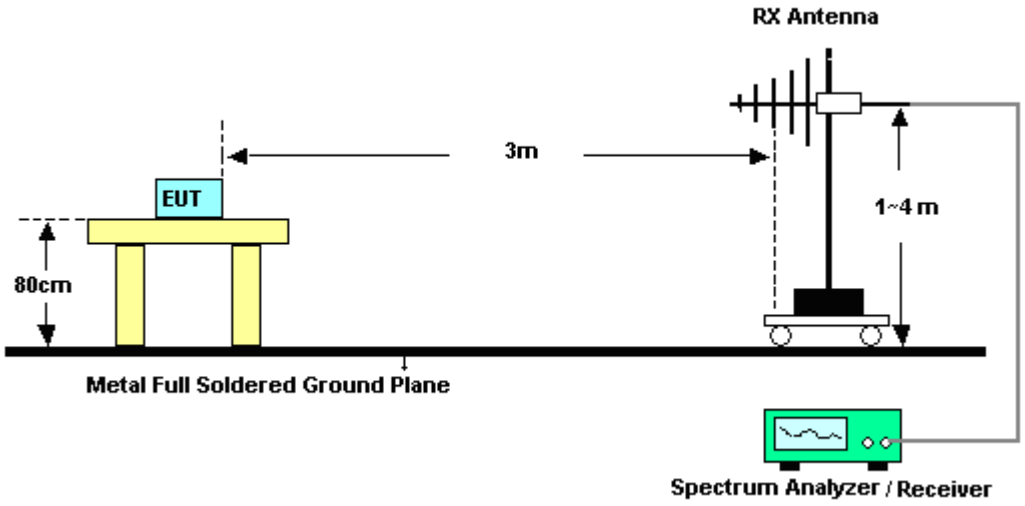
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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 1 GHz, 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 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

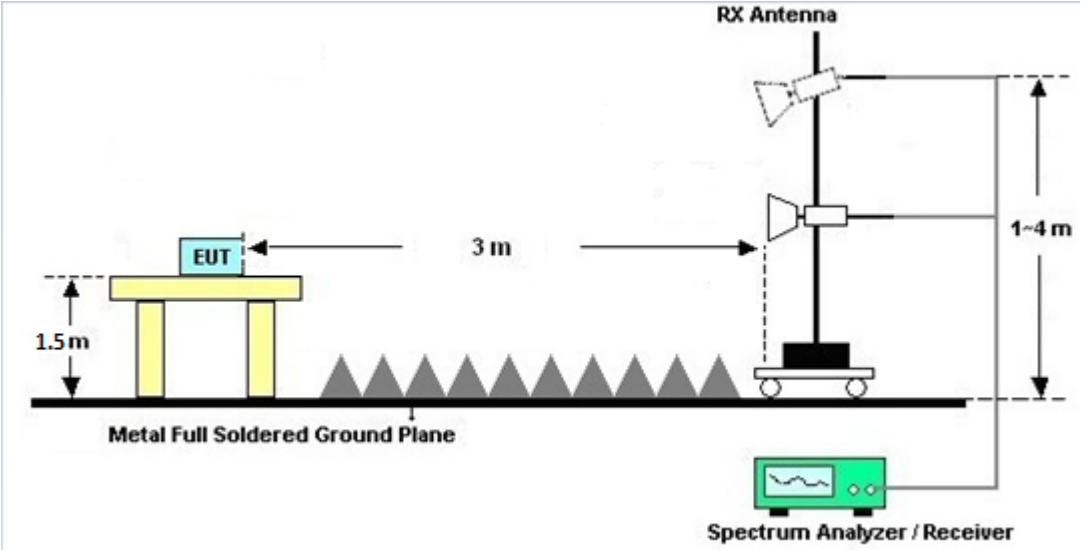
For radiated emissions below 30MHz



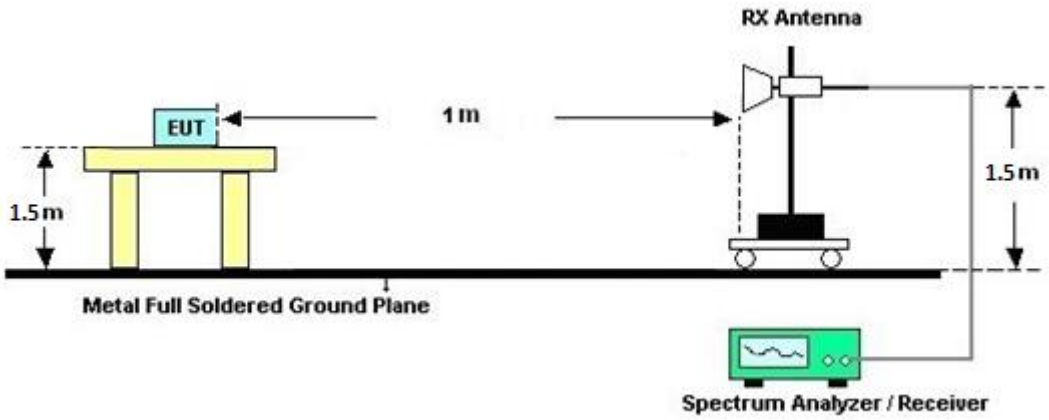
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement 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.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

For terminal test result, the testing follows FCC KDB 174176.

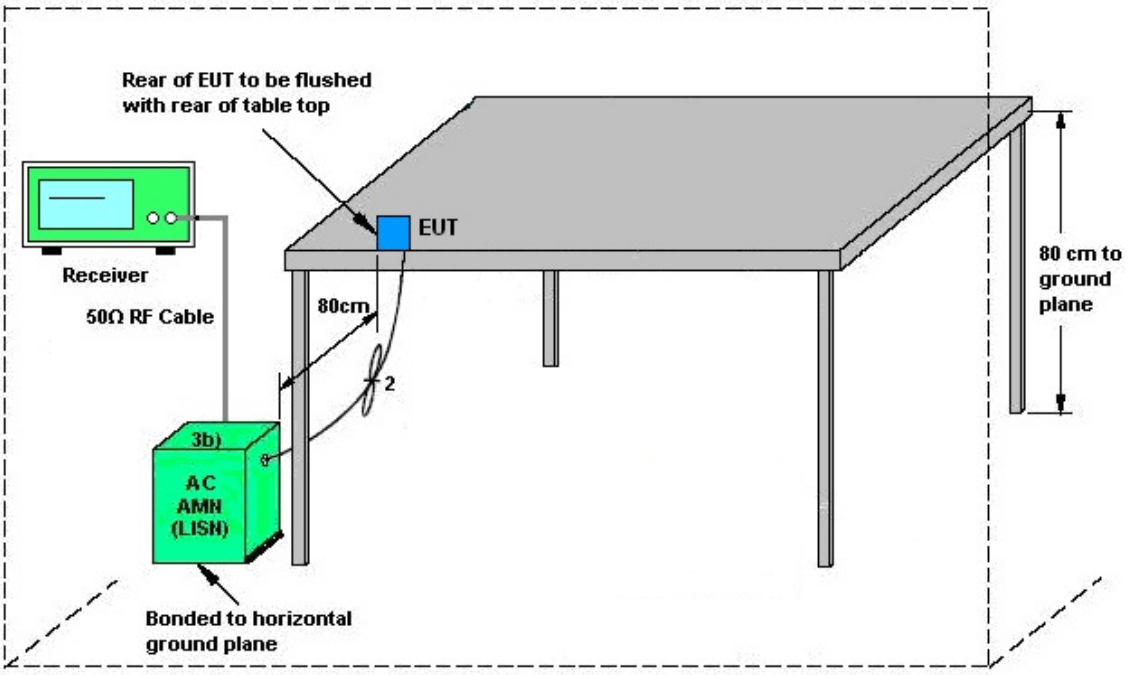
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Jun. 17, 2021~ Jul. 06, 2021	Jul. 13, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	41912 & 05	30MHz~1GHz	Feb. 08, 2021	Jun. 17, 2021~ Jul. 06, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	Jun. 17, 2021~ Jul. 06, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Nov. 03, 2020	Jun. 17, 2021~ Jul. 06, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Dec. 02, 2020	Jun. 17, 2021~ Jul. 06, 2021	Dec. 01, 2021	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055006	1GHz~18GHz	May 06, 2021	Jun. 17, 2021~ Jul. 06, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2020	Jun. 17, 2021~ Jul. 06, 2021	Aug. 20, 2021	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Oct. 27, 2020	Jun. 17, 2021~ Jul. 06, 2021	Oct. 26, 2021	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Jun. 17, 2021~ Jul. 06, 2021	Nov. 01, 2021	Radiation (03CH15-HY
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 07, 2021	Jun. 17, 2021~ Jul. 06, 2021	May 06, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 17, 2021~ Jul. 06, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 17, 2021~ Jul. 06, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	Jun. 17, 2021~ Jul. 06, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE,508405/2E	30MHz~18G	Nov. 16, 2020	Jun. 17, 2021~ Jul. 06, 2021	Nov. 15, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Jun. 17, 2021~ Jul. 06, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Jun. 17, 2021~ Jul. 06, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Jun. 17, 2021~ Jul. 06, 2021	Mar. 10, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-1530-6000-40ST	SN4	1.53GHz Low Pass Filter	Jul. 03, 2020	Jun. 17, 2021~ Jun. 23, 2021	Jul. 02, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 15, 2020	Jun. 24, 2021~ Jul. 06, 2021	Sep. 14, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN6	6.75GHz High Pass Filter	Jul. 01, 2020	Jun. 17, 2021~ Jun. 23, 2021	Jun. 30, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 11, 2021	Jun. 24, 2021~ Jul. 06, 2021	Mar. 10, 2022	Radiation (03CH15-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	17100015 SNO37	10MHz~6GHz	Dec. 02, 2020	Jun. 01, 2021~ Jul. 07, 2021	Dec. 01, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Jun. 01, 2021~ Jul. 07, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSQ	200578/026	20Hz-26.5GHz	Jul. 17, 2020	Jun. 01, 2021~ Jul. 07, 2021	Jul. 16, 2021	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Jun. 01, 2021~ Jul. 07, 2021	Mar. 16, 2022	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 18, 2021~ Jun. 23, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jun. 18, 2021~ Jun. 23, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jun. 18, 2021~ Jun. 23, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Jun. 18, 2021~ Jun. 23, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 18, 2021~ Jun. 23, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jun. 18, 2021~ Jun. 23, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jun. 18, 2021~ Jun. 23, 2021	Dec. 30, 2021	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))	**2.3 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3 dB**

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ching Chen/Junyu Jhou	Temperature:	24.2~25.2	°C
Test Date:	2021/6/1-2021/7/7	Relative Humidity:	52.9~54.5	%

TEST RESULTS DATA
26dB and 99% OBW

Band I single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	18.73	-	32.45	-	-		22.73	-		
11a	6Mbps	1	44	5220	18.78	-	36.55	-	-		22.74	-		
11a	6Mbps	1	48	5240	18.83	-	35.18	-	-		22.75	-		
HT20	MCS0	1	36	5180	19.48	-	32.75	-	-		22.90	-		
HT20	MCS0	1	44	5220	19.38	-	28.10	-	-		22.87	-		
HT20	MCS0	1	48	5240	19.43	-	31.35	-	-		22.88	-		
HT40	MCS0	1	38	5190	36.76	-	47.43	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.76	-	45.27	-	-		23.01	-		

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	15.20	-		24.00	-	2.89	-		Pass
11a	6Mbps	1	44	5220	15.00	-		24.00	-	2.89	-		Pass
11a	6Mbps	1	48	5240	15.40	-		24.00	-	2.89	-		Pass
HT20	MCS0	1	36	5180	14.60	-		24.00	-	2.89	-		Pass
HT20	MCS0	1	44	5220	14.60	-		24.00	-	2.89	-		Pass
HT20	MCS0	1	48	5240	15.00	-		24.00	-	2.89	-		Pass
HT40	MCS0	1	38	5190	13.10	-		24.00	-	2.89	-		Pass
HT40	MCS0	1	46	5230	13.00	-		24.00	-	2.89	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	3.42	-		11.00	-	2.89	-		Pass
11a	6Mbps	1	44	5220	4.22	-		11.00	-	2.89	-		Pass
11a	6Mbps	1	48	5240	3.79	-		11.00	-	2.89	-		Pass
HT20	MCS0	1	36	5180	3.07	-		11.00	-	2.89	-		Pass
HT20	MCS0	1	44	5220	2.88	-		11.00	-	2.89	-		Pass
HT20	MCS0	1	48	5240	3.17	-		11.00	-	2.89	-		Pass
HT40	MCS0	1	38	5190	-0.85	-		11.00	-	2.89	-		Pass
HT40	MCS0	1	46	5230	-0.87	-		11.00	-	2.89	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/3kHz)			Average PSD Limit (dBm/3kHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	-10.74	-		14.00	-	2.89	-		Pass
11a	6Mbps	1	44	5220	-10.72	-		14.00	-	2.89	-		Pass
11a	6Mbps	1	48	5240	-10.38	-		14.00	-	2.89	-		Pass
HT20	MCS0	1	36	5180	-11.49	-		14.00	-	2.89	-		Pass
HT20	MCS0	1	44	5220	-11.48	-		14.00	-	2.89	-		Pass
HT20	MCS0	1	48	5240	-12.46	-		14.00	-	2.89	-		Pass
HT40	MCS0	1	38	5190	-16.69	-		14.00	-	2.89	-		Pass
HT40	MCS0	1	46	5230	-15.94	-		14.00	-	2.89	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	18.83	-	36.65	-	23.75	-	29.75	-	23.98	-	
11a	6Mbps	1	60	5300	18.83	-	36.25	-	23.75	-	29.75	-	23.98	-	
11a	6Mbps	1	64	5320	18.83	-	39.90	-	23.75	-	29.75	-	23.98	-	
HT20	MCS0	1	52	5260	19.43	-	32.15	-	23.88	-	29.88	-	23.98	-	
HT20	MCS0	1	60	5300	19.38	-	32.15	-	23.87	-	29.87	-	23.98	-	
HT20	MCS0	1	64	5320	19.43	-	34.60	-	23.88	-	29.88	-	23.98	-	
HT40	MCS0	1	54	5270	36.66	-	45.45	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.76	-	49.32	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	15.10	-		23.98	-	3.10	-	26.99	Pass
11a	6Mbps	1	60	5300	15.60	-		23.98	-	3.10	-	26.99	Pass
11a	6Mbps	1	64	5320	15.10	-		23.98	-	3.10	-	26.99	Pass
HT20	MCS0	1	52	5260	15.00	-		23.98	-	3.10	-	26.99	Pass
HT20	MCS0	1	60	5300	14.10	-		23.98	-	3.10	-	26.99	Pass
HT20	MCS0	1	64	5320	14.50	-		23.98	-	3.10	-	26.99	Pass
HT40	MCS0	1	54	5270	13.50	-		23.98	-	3.10	-	26.99	Pass
HT40	MCS0	1	62	5310	13.80	-		23.98	-	3.10	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	3.83	-		11.00	-	3.10	-		Pass
11a	6Mbps	1	60	5300	3.77	-		11.00	-	3.10	-		Pass
11a	6Mbps	1	64	5320	3.88	-		11.00	-	3.10	-		Pass
HT20	MCS0	1	52	5260	2.91	-		11.00	-	3.10	-		Pass
HT20	MCS0	1	60	5300	2.57	-		11.00	-	3.10	-		Pass
HT20	MCS0	1	64	5320	3.33	-		11.00	-	3.10	-		Pass
HT40	MCS0	1	54	5270	-1.32	-		11.00	-	3.10	-		Pass
HT40	MCS0	1	62	5310	-0.78	-		11.00	-	3.10	-		Pass

TEST RESULTS DATA
Power Spectral Density

Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/3kHz)			Average PSD Limit (dBm/3kHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	-10.67	-		14.00	-	3.10	-		Pass
11a	6Mbps	1	60	5300	-10.85	-		14.00	-	3.10	-		Pass
11a	6Mbps	1	64	5320	-11.47	-		14.00	-	3.10	-		Pass
HT20	MCS0	1	52	5260	-12.10	-		14.00	-	3.10	-		Pass
HT20	MCS0	1	60	5300	-12.25	-		14.00	-	3.10	-		Pass
HT20	MCS0	1	64	5320	-12.50	-		14.00	-	3.10	-		Pass
HT40	MCS0	1	54	5270	-16.48	-		14.00	-	3.10	-		Pass
HT40	MCS0	1	62	5310	-16.32	-		14.00	-	3.10	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	18.83	-	37.25	-	23.75	-	29.75	-	23.98	-	----	----
11a	6Mbps	1	116	5580	18.83	-	35.80	-	23.75	-	29.75	-	23.98	-	----	----
11a	6Mbps	1	140	5700	18.73	-	32.75	-	23.73	-	29.73	-	23.98	-	----	----
HT20	MCS0	1	100	5500	19.43	-	32.35	-	23.88	-	29.88	-	23.98	-	----	----
HT20	MCS0	1	116	5580	19.43	-	36.95	-	23.88	-	29.88	-	23.98	-	----	----
HT20	MCS0	1	140	5700	19.38	-	31.80	-	23.87	-	29.87	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.66	-	45.81	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.56	-	45.54	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.86	-	45.27	-	23.98	-	30.00	-	23.98	-	----	----

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	15.80	-		23.98	-	3.98	-	26.99	Pass
11a	6Mbps	1	116	5580	15.80	-		23.98	-	3.98	-	26.99	Pass
11a	6Mbps	1	140	5700	13.70	-		23.98	-	3.98	-	26.99	Pass
HT20	MCS0	1	100	5500	15.20	-		23.98	-	3.98	-	26.99	Pass
HT20	MCS0	1	116	5580	15.10	-		23.98	-	3.98	-	26.99	Pass
HT20	MCS0	1	140	5700	13.20	-		23.98	-	3.98	-	26.99	Pass
HT40	MCS0	1	102	5510	12.70	-		23.98	-	3.98	-	26.99	Pass
HT40	MCS0	1	110	5550	13.80	-		23.98	-	3.98	-	26.99	Pass
HT40	MCS0	1	134	5670	13.40	-		23.98	-	3.98	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	4.13	-		11.00	-	3.98	-		Pass
11a	6Mbps	1	116	5580	4.24	-		11.00	-	3.98	-		Pass
11a	6Mbps	1	140	5700	2.13	-		11.00	-	3.98	-		Pass
HT20	MCS0	1	100	5500	3.56	-		11.00	-	3.98	-		Pass
HT20	MCS0	1	116	5580	3.10	-		11.00	-	3.98	-		Pass
HT20	MCS0	1	140	5700	1.14	-		11.00	-	3.98	-		Pass
HT40	MCS0	1	102	5510	-1.73	-		11.00	-	3.98	-		Pass
HT40	MCS0	1	110	5550	-0.78	-		11.00	-	3.98	-		Pass
HT40	MCS0	1	134	5670	-1.16	-		11.00	-	3.98	-		Pass

TEST RESULTS DATA
Power Spectral Density

Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/3kHz)			Average PSD Limit (dBm/3kHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	-11.42	-		14.00	-	3.98	-		Pass
11a	6Mbps	1	116	5580	-11.37	-		14.00	-	3.98	-		Pass
11a	6Mbps	1	140	5700	-13.31	-		14.00	-	3.98	-		Pass
HT20	MCS0	1	100	5500	-11.58	-		14.00	-	3.98	-		Pass
HT20	MCS0	1	116	5580	-11.49	-		14.00	-	3.98	-		Pass
HT20	MCS0	1	140	5700	-12.98	-		14.00	-	3.98	-		Pass
HT40	MCS0	1	102	5510	-17.37	-		14.00	-	3.98	-		Pass
HT40	MCS0	1	110	5550	-16.12	-		14.00	-	3.98	-		Pass
HT40	MCS0	1	134	5670	-16.69	-		14.00	-	3.98	-		Pass

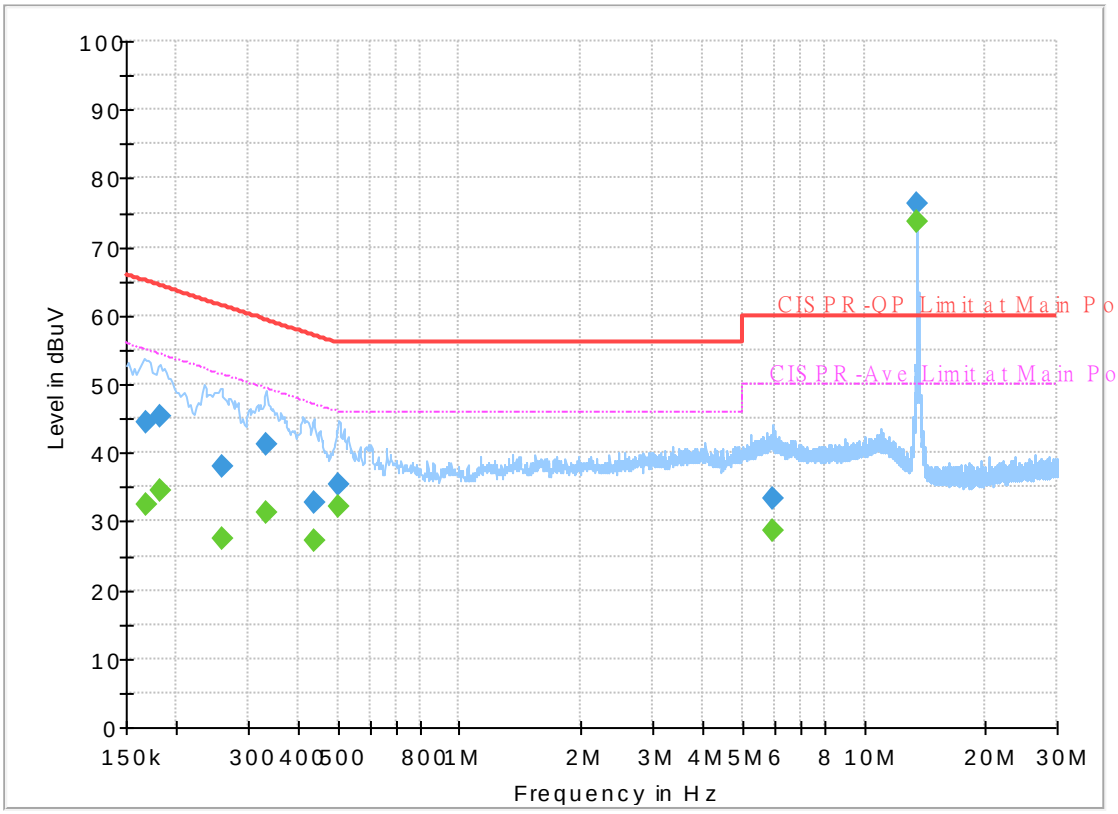
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

Original

Report NO :	0O2036-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum

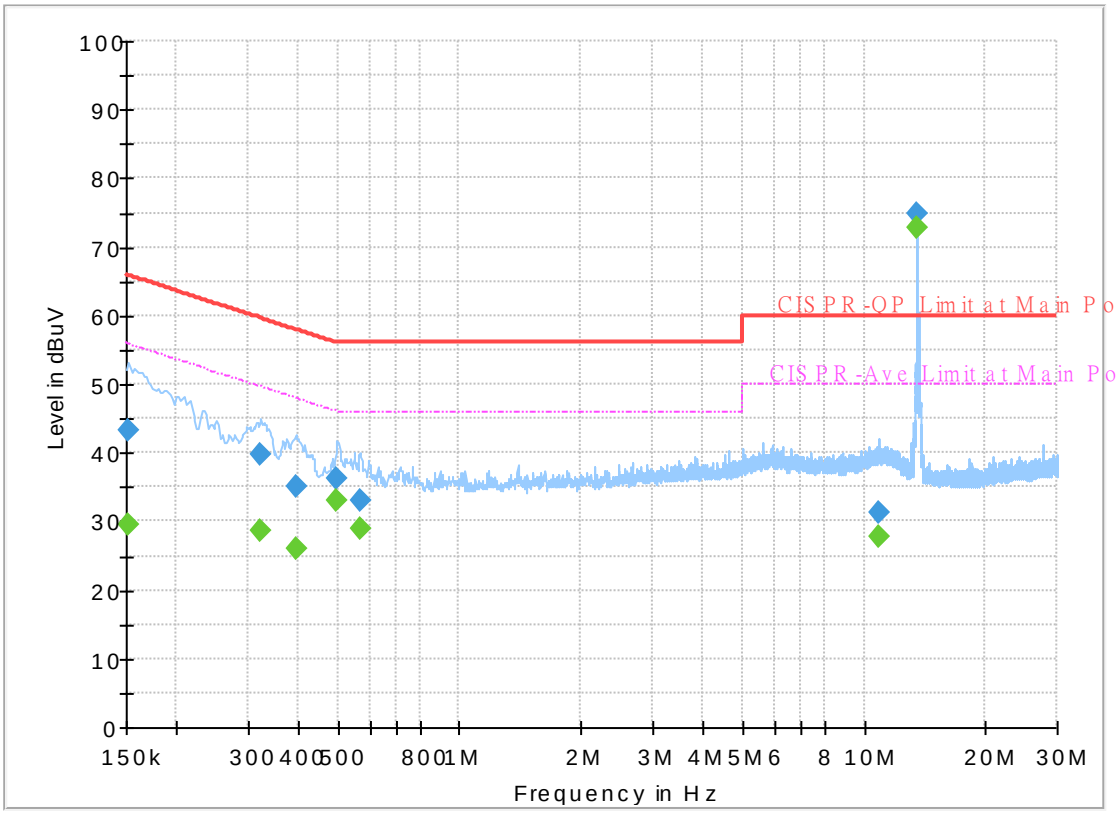


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	44.32	---	65.06	20.74	L1	OFF	19.5
0.168000	---	32.41	55.06	22.65	L1	OFF	19.5
0.181500	45.46	---	64.42	18.96	L1	OFF	19.5
0.181500	---	34.37	54.42	20.05	L1	OFF	19.5
0.258000	37.87	---	61.50	23.63	L1	OFF	19.5
0.258000	---	27.39	51.50	24.11	L1	OFF	19.5
0.332250	41.12	---	59.40	18.28	L1	OFF	19.5
0.332250	---	31.33	49.40	18.07	L1	OFF	19.5
0.435750	32.62	---	57.14	24.52	L1	OFF	19.6
0.435750	---	27.24	47.14	19.90	L1	OFF	19.6
0.503250	35.32	---	56.00	20.68	L1	OFF	19.7
0.503250	---	32.07	46.00	13.93	L1	OFF	19.7
5.923500	33.26	---	60.00	26.74	L1	OFF	19.9
5.923500	---	28.67	50.00	21.33	L1	OFF	19.9
13.560000	76.28	---	60.00	-16.28	L1	OFF	20.1
13.560000	---	73.81	50.00	-23.81	L1	OFF	20.1

Report NO :	0O2036-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



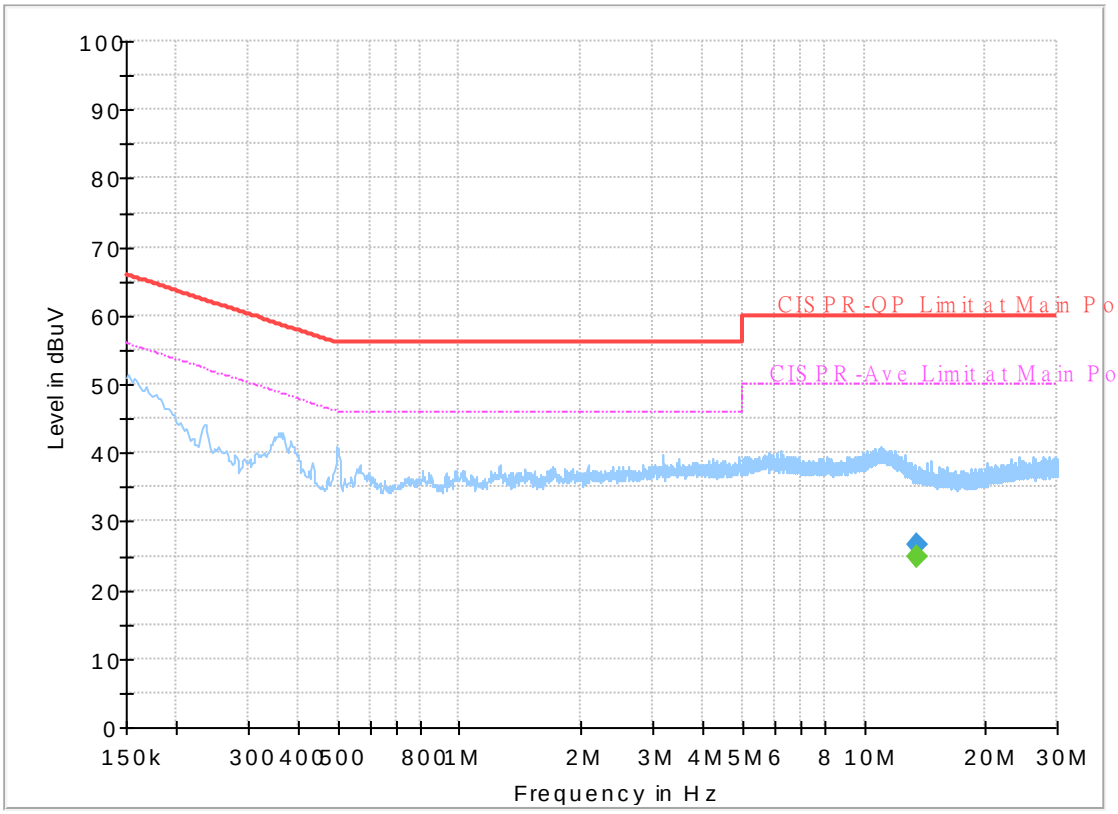
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.62	55.88	26.26	N	OFF	19.5
0.152250	43.39	---	65.88	22.49	N	OFF	19.5
0.323250	---	28.77	49.62	20.85	N	OFF	19.6
0.323250	39.84	---	59.62	19.78	N	OFF	19.6
0.393000	---	25.93	48.00	22.07	N	OFF	19.6
0.393000	35.22	---	58.00	22.78	N	OFF	19.6
0.498750	---	33.03	46.02	12.99	N	OFF	19.7
0.498750	36.30	---	56.02	19.72	N	OFF	19.7
0.566250	---	29.07	46.00	16.93	N	OFF	19.8
0.566250	32.91	---	56.00	23.09	N	OFF	19.8
10.905000	---	27.76	50.00	22.24	N	OFF	20.1
10.905000	31.27	---	60.00	28.73	N	OFF	20.1
13.560000	---	72.67	50.00	-22.67	N	OFF	20.2
13.560000	74.88	---	60.00	-14.88	N	OFF	20.2

Terminal

Report NO :	0O2036-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum

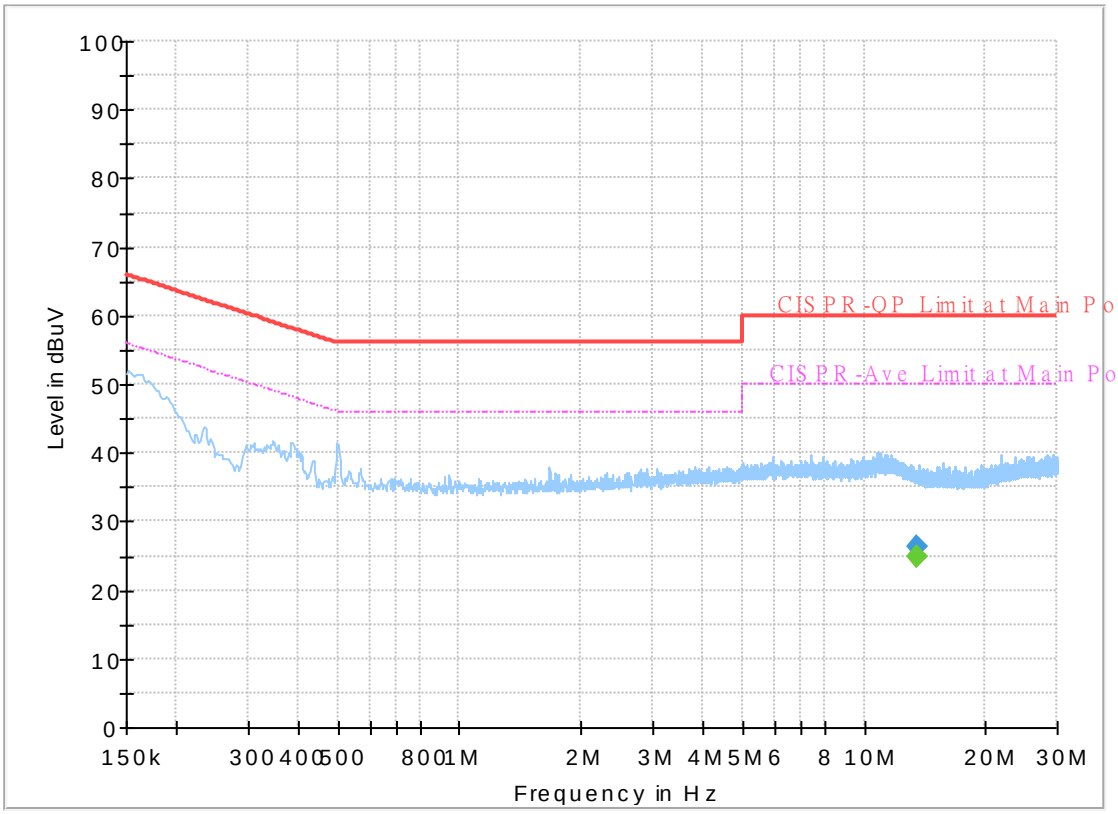


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	24.96	50.00	25.04	L1	OFF	20.1
13.560000	26.63	---	60.00	33.37	L1	OFF	20.1

Report NO :	0O2036-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	24.94	50.00	25.06	N	OFF	20.2
13.560000	26.26	---	60.00	33.74	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55.0~60.0%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	60.16	-13.84	74	48.37	31.8	10	30.01	100	48	P	H
		5150	47.46	-6.54	54	35.67	31.8	10	30.01	100	48	A	H
	*	5180	109.66	-	-	98.02	31.62	10.03	30.01	100	48	P	H
	*	5180	101.55	-	-	89.91	31.62	10.03	30.01	100	48	A	H
													H
													H
		5149.5	63.35	-10.65	74	51.56	31.8	10	30.01	100	345	P	V
		5150	47.89	-6.11	54	36.1	31.8	10	30.01	100	345	A	V
	*	5180	108.88	-	-	97.24	31.62	10.03	30.01	100	345	P	V
	*	5180	100.98	-	-	89.34	31.62	10.03	30.01	100	345	A	V
													V
													V
802.11a CH 44 5220MHz		5096.98	52.08	-21.92	74	40.36	31.79	9.94	30.01	100	47	P	H
		5077.74	41.99	-12.01	54	30.33	31.76	9.92	30.02	100	47	A	H
	*	5220	110.2	-	-	98.76	31.38	10.07	30.01	100	47	P	H
	*	5220	101.9	-	-	90.46	31.38	10.07	30.01	100	47	A	H
		5431.72	52.2	-21.8	74	40.42	31.53	10.24	29.99	100	47	P	H
		5452.16	42.15	-11.85	54	30.29	31.6	10.25	29.99	100	47	A	H
		5098.28	51.89	-22.11	74	40.16	31.8	9.94	30.01	100	345	P	V
		5140.92	42.1	-11.9	54	30.32	31.8	9.99	30.01	100	345	A	V
	*	5220	110.05	-	-	98.61	31.38	10.07	30.01	100	345	P	V
	*	5220	101.49	-	-	90.05	31.38	10.07	30.01	100	345	A	V
		5412.96	52.03	-21.97	74	40.36	31.45	10.22	30	100	345	P	V
		5432	42.09	-11.91	54	30.31	31.53	10.24	29.99	100	345	A	V

802.11a CH 48 5240MHz		5083.46	51.99	-22.01	74	40.3	31.77	9.93	30.01	100	49	P	H
		5114.92	42.04	-11.96	54	30.29	31.8	9.96	30.01	100	49	A	H
	*	5240	109.7	-	-	98.37	31.26	10.08	30.01	100	49	P	H
	*	5240	101.61	-	-	90.28	31.26	10.08	30.01	100	49	A	H
		5424.72	51.41	-22.59	74	39.67	31.5	10.23	29.99	100	49	P	H
		5425.84	42.25	-11.75	54	30.51	31.5	10.23	29.99	100	49	A	H
		5062.14	51.83	-22.17	74	40.22	31.72	9.91	30.02	100	345	P	V
		5135.98	42.11	-11.89	54	30.34	31.8	9.98	30.01	100	345	A	V
	*	5240	109.48	-	-	98.15	31.26	10.08	30.01	100	345	P	V
	*	5240	101.37	-	-	90.04	31.26	10.08	30.01	100	345	A	V
		5459.72	51.72	-22.28	74	39.85	31.6	10.26	29.99	100	345	P	V
		5454.12	42.09	-11.91	54	30.22	31.6	10.26	29.99	100	345	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	47.66	-20.54	68.2	54.56	39.44	14.46	60.8	100	0	P	H
		15540	47.04	-26.96	74	54.29	37.82	17.29	62.36	100	0	P	H
		17988.9	59.92	-14.08	74	49.36	48.8	19.03	57.27	100	30	P	H
		17988.9	49.89	-4.11	54	39.33	48.8	19.03	57.27	100	30	A	H
		10360	47.81	-20.39	68.2	54.71	39.44	14.46	60.8	100	0	P	V
		15540	46.89	-27.11	74	54.14	37.82	17.29	62.36	100	0	P	V
		17988.9	60.04	-13.96	74	49.48	48.8	19.03	57.27	100	20	P	V
		17988.9	50.01	-3.99	54	39.45	48.8	19.03	57.27	100	20	A	V
802.11a CH 44 5220MHz		10440	47.5	-20.7	68.2	54.23	39.64	14.5	60.87	100	0	P	H
		15660	46.76	-27.24	74	53.78	37.52	17.36	61.9	100	0	P	H
		17988.9	59.36	-14.64	74	48.8	48.8	19.03	57.27	100	31	P	H
		17988.9	49.32	-4.68	54	38.76	48.8	19.03	57.27	100	31	A	H
		10440	47.51	-20.69	68.2	54.24	39.64	14.5	60.87	100	0	P	V
		15660	46.74	-27.26	74	53.76	37.52	17.36	61.9	100	0	P	V
		18000	59.07	-14.93	74	48.27	49	19.04	57.24	100	21	P	V
		18000	49.05	-4.95	54	38.25	49	19.04	57.24	100	21	A	V
802.11a CH 48 5240MHz		10480	47.48	-20.72	68.2	54.19	39.68	14.52	60.91	100	0	P	H
		15720	47.13	-26.87	74	54.06	37.34	17.4	61.67	100	0	P	H
		18000	60.31	-13.69	74	49.51	49	19.04	57.24	100	32	P	H
		18000	50.34	-3.66	54	39.54	49	19.04	57.24	100	32	A	H
		10480	46.67	-21.53	68.2	53.38	39.68	14.52	60.91	100	0	P	V
		15720	45.38	-28.62	74	52.31	37.34	17.4	61.67	100	0	P	V
		18000	59.91	-14.09	74	49.11	49	19.04	57.24	100	22	P	V
		18000	49.96	-4.04	54	39.16	49	19.04	57.24	100	22	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
		5150	62.8	-11.2	74	51.01	31.8	10	30.01	100	47	P	H
		5128.18	47.9	-6.1	54	36.14	31.8	9.97	30.01	100	47	A	H
	*	5180	109.17	-	-	97.53	31.62	10.03	30.01	100	47	P	H
	*	5180	101.06	-	-	89.42	31.62	10.03	30.01	100	47	A	H
802.11n													H
HT20													H
CH 36		5147.42	63.27	-10.73	74	51.49	31.8	9.99	30.01	100	344	P	V
5180MHz		5150	47.65	-6.35	54	35.86	31.8	10	30.01	100	344	A	V
	*	5180	108.54	-	-	96.9	31.62	10.03	30.01	100	344	P	V
	*	5180	100.35	-	-	88.71	31.62	10.03	30.01	100	344	A	V
													V
													V
		5128.96	52.55	-21.45	74	40.78	31.8	9.98	30.01	100	47	P	H
		5130	42.13	-11.87	54	30.36	31.8	9.98	30.01	100	47	A	H
	*	5220	108.36	-	-	96.92	31.38	10.07	30.01	100	47	P	H
	*	5220	101.21	-	-	89.77	31.38	10.07	30.01	100	47	A	H
802.11n		5398.68	51.38	-22.62	74	39.78	31.39	10.21	30	100	47	P	H
HT20		5447.12	42.07	-11.93	54	30.22	31.59	10.25	29.99	100	47	A	H
CH 44		5110.76	51.66	-22.34	74	39.91	31.8	9.96	30.01	100	345	P	V
5220MHz		5146.64	42.21	-11.79	54	30.43	31.8	9.99	30.01	100	345	A	V
	*	5220	110.09	-	-	98.65	31.38	10.07	30.01	100	345	P	V
	*	5220	100.94	-	-	89.5	31.38	10.07	30.01	100	345	A	V
		5365.36	51.52	-22.48	74	40.15	31.19	10.18	30	100	345	P	V
		5429.76	42.03	-11.97	54	30.26	31.52	10.24	29.99	100	345	A	V

		5094.12	52.37	-21.63	74	40.65	31.79	9.94	30.01	100	47	P	H
		5101.66	42.07	-11.93	54	30.33	31.8	9.95	30.01	100	47	A	H
	*	5240	108.29	-	-	96.96	31.26	10.08	30.01	100	47	P	H
	*	5240	100.62	-	-	89.29	31.26	10.08	30.01	100	47	A	H
802.11n		5432.84	52.08	-21.92	74	40.3	31.53	10.24	29.99	100	47	P	H
HT20		5438.72	42.2	-11.8	54	30.4	31.55	10.24	29.99	100	47	A	H
CH 48		5145.08	52.04	-21.96	74	40.26	31.8	9.99	30.01	100	346	P	V
5240MHz		5135.98	42.01	-11.99	54	30.24	31.8	9.98	30.01	100	346	A	V
	*	5240	108.86	-	-	97.53	31.26	10.08	30.01	100	346	P	V
	*	5240	100.58	-	-	89.25	31.26	10.08	30.01	100	346	A	V
		5459.72	51.59	-22.41	74	39.72	31.6	10.26	29.99	100	346	P	V
		5455.52	42.04	-11.96	54	30.17	31.6	10.26	29.99	100	346	A	V

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

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	47.95	-20.25	68.2	54.85	39.44	14.46	60.8	100	0	P	H
		15540	47.42	-26.58	74	54.67	37.82	17.29	62.36	100	0	P	H
		17988.9	59.99	-14.01	74	49.43	48.8	19.03	57.27	100	30	P	H
		17988.9	50.05	-3.95	54	39.49	48.8	19.03	57.27	100	30	A	H
		10360	47.19	-21.01	68.2	54.09	39.44	14.46	60.8	100	0	P	V
		15540	48.03	-25.97	74	55.28	37.82	17.29	62.36	100	0	P	V
		17988.9	59.06	-14.94	74	48.5	48.8	19.03	57.27	100	20	P	V
		17988.9	49.03	-4.97	54	38.47	48.8	19.03	57.27	100	20	A	V
802.11n HT20 CH 44 5220MHz		10440	47.48	-20.72	68.2	54.21	39.64	14.5	60.87	100	0	P	H
		15660	46.94	-27.06	74	53.96	37.52	17.36	61.9	100	0	P	H
		18000	59.24	-14.76	74	48.44	49	19.04	57.24	100	31	P	H
		18000	49.2	-4.8	54	38.4	49	19.04	57.24	100	31	A	H
		10440	47.85	-20.35	68.2	54.58	39.64	14.5	60.87	100	0	P	V
		15660	46.88	-27.12	74	53.9	37.52	17.36	61.9	100	0	P	V
		18000	59.81	-14.19	74	49.01	49	19.04	57.24	100	21	P	V
		18000	49.86	-4.14	54	39.06	49	19.04	57.24	100	21	A	V
802.11n HT20 CH 48 5240MHz		10480	47.66	-20.54	68.2	54.37	39.68	14.52	60.91	100	0	P	H
		15720	46.02	-27.98	74	52.95	37.34	17.4	61.67	100	0	P	H
		17988.9	59.92	-14.08	74	49.36	48.8	19.03	57.27	100	32	P	H
		17988.9	49.95	-4.05	54	39.39	48.8	19.03	57.27	100	32	A	H
		10480	47.03	-21.17	68.2	53.74	39.68	14.52	60.91	100	0	P	V
		15720	46.04	-27.96	74	52.97	37.34	17.4	61.67	100	0	P	V
		18000	59.15	-14.85	74	48.35	49	19.04	57.24	100	22	P	V
		18000	49.17	-4.83	54	38.37	49	19.04	57.24	100	22	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	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)
		5146.9	64.96	-9.04	74	53.18	31.8	9.99	30.01	100	48	P	H
		5150	48.9	-5.1	54	37.11	31.8	10	30.01	100	48	A	H
	*	5190	106.7	-	-	95.11	31.56	10.04	30.01	100	48	P	H
	*	5190	97.4	-	-	85.81	31.56	10.04	30.01	100	48	A	H
802.11n		5438.44	52.27	-21.73	74	40.47	31.55	10.24	29.99	100	48	P	H
HT40		5451.6	42.12	-11.88	54	30.26	31.6	10.25	29.99	100	48	A	H
CH 38		5148.98	64.08	-9.92	74	52.29	31.8	10	30.01	100	345	P	V
5190MHz		5149.76	48.61	-5.39	54	36.82	31.8	10	30.01	100	345	A	V
	*	5190	104.77	-	-	93.18	31.56	10.04	30.01	100	345	P	V
	*	5190	96.64	-	-	85.05	31.56	10.04	30.01	100	345	A	V
		5429.76	51.9	-22.1	74	40.13	31.52	10.24	29.99	100	345	P	V
		5425.84	42.11	-11.89	54	30.37	31.5	10.23	29.99	100	345	A	V
		5108.94	52.44	-21.56	74	40.7	31.8	9.95	30.01	100	48	P	H
		5125.84	43.51	-10.49	54	31.75	31.8	9.97	30.01	100	48	A	H
	*	5230	105.44	-	-	94.06	31.32	10.07	30.01	100	48	P	H
	*	5230	97.35	-	-	85.97	31.32	10.07	30.01	100	48	A	H
802.11n		5383.84	51.9	-22.1	74	40.4	31.3	10.2	30	100	48	P	H
HT40		5416.88	42.16	-11.84	54	30.46	31.47	10.22	29.99	100	48	A	H
CH 46		5126.62	52.26	-21.74	74	40.5	31.8	9.97	30.01	100	346	P	V
5230MHz		5127.14	43.78	-10.22	54	32.02	31.8	9.97	30.01	100	346	A	V
	*	5230	106.03	-	-	94.65	31.32	10.07	30.01	100	346	P	V
	*	5230	97.61	-	-	86.23	31.32	10.07	30.01	100	346	A	V
		5410.44	52.03	-21.97	74	40.37	31.44	10.22	30	100	346	P	V
		5439.56	42.16	-11.84	54	30.35	31.56	10.24	29.99	100	346	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	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	47.15	-21.05	68.2	53.98	39.52	14.47	60.82	100	0	P	H
		15570	47.27	-26.73	74	54.45	37.76	17.3	62.24	100	0	P	H
		17988.9	59	-15	74	48.44	48.8	19.03	57.27	100	29	P	H
		17988.9	49.05	-4.95	54	38.49	48.8	19.03	57.27	100	29	A	H
		10380	47.71	-20.49	68.2	54.54	39.52	14.47	60.82	100	0	P	V
		15570	47.5	-26.5	74	54.68	37.76	17.3	62.24	100	0	P	V
		18000	60.46	-13.54	74	49.66	49	19.04	57.24	100	19	P	V
		18000	50.43	-3.57	54	39.63	49	19.04	57.24	100	19	A	V
802.11n HT40 CH 46 5230MHz		10460	47.8	-20.4	68.2	54.52	39.66	14.51	60.89	100	0	P	H
		15690	47.31	-26.69	74	54.29	37.43	17.38	61.79	100	0	P	H
		17977.8	59.01	-14.99	74	48.67	48.6	19.03	57.29	100	33	P	H
		17977.8	49.97	-4.03	54	39.63	48.6	19.03	57.29	100	33	A	H
		10460	47.28	-20.92	68.2	54	39.66	14.51	60.89	100	0	P	V
		15690	47.31	-26.69	74	54.29	37.43	17.38	61.79	100	0	P	V
		18000	59.03	-14.97	74	48.23	49	19.04	57.24	100	23	P	V
		18000	49.06	-4.94	54	38.26	49	19.04	57.24	100	23	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI 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 52 5260MHz		5126.82	51.44	-22.56	74	39.68	31.8	9.97	30.01	100	48	P	H
		5137.36	41.9	-12.1	54	30.13	31.8	9.98	30.01	100	48	A	H
	*	5260	109.3	-	-	98	31.2	10.1	30	100	48	P	H
	*	5260	101.82	-	-	90.52	31.2	10.1	30	100	48	A	H
		5388.96	51.79	-22.21	74	40.26	31.33	10.2	30	100	48	P	H
		5449.2	42.2	-11.8	54	30.34	31.6	10.25	29.99	100	48	A	H
		5100.3	51.43	-22.57	74	39.69	31.8	9.95	30.01	100	345	P	V
		5091.46	42.24	-11.76	54	30.53	31.78	9.94	30.01	100	345	A	V
	*	5260	109.01	-	-	97.71	31.2	10.1	30	100	345	P	V
	*	5260	101.36	-	-	90.06	31.2	10.1	30	100	345	A	V
		5454.96	51.25	-22.75	74	39.38	31.6	10.26	29.99	100	345	P	V
		5452.56	42.12	-11.88	54	30.26	31.6	10.25	29.99	100	345	A	V
802.11a CH 60 5300MHz		5069.7	51.83	-22.17	74	40.2	31.74	9.91	30.02	100	49	P	H
		5088.4	41.96	-12.04	54	30.26	31.78	9.93	30.01	100	49	A	H
	*	5300	109.34	-	-	98.01	31.2	10.13	30	100	49	P	H
	*	5300	101.39	-	-	90.06	31.2	10.13	30	100	49	A	H
		5352.24	55.12	-18.88	74	43.84	31.11	10.17	30	100	49	P	H
		5352.24	47.98	-6.02	54	36.7	31.11	10.17	30	100	49	A	H
		5130.56	51.6	-22.4	74	39.83	31.8	9.98	30.01	100	345	P	V
		5114.92	41.91	-12.09	54	30.16	31.8	9.96	30.01	100	345	A	V
	*	5300	110.01	-	-	98.68	31.2	10.13	30	100	345	P	V
	*	5300	101.85	-	-	90.52	31.2	10.13	30	100	345	A	V
		5352.24	56.1	-17.9	74	44.82	31.11	10.17	30	100	345	P	V
		5352.24	48.22	-5.78	54	36.94	31.11	10.17	30	100	345	A	V

802.11a CH 64 5320MHz	*	5320	109.6	-	-	98.29	31.16	10.15	30	100	47	P	H
	*	5320	101.21	-	-	89.9	31.16	10.15	30	100	47	A	H
		5353.12	61.11	-12.89	74	49.82	31.12	10.17	30	100	47	P	H
		5372.16	48.11	-5.89	54	36.69	31.23	10.19	30	100	47	A	H
													H
													H
	*	5320	108.76	-	-	97.45	31.16	10.15	30	100	346	P	V
	*	5320	100.96	-	-	89.65	31.16	10.15	30	100	346	A	V
		5350.24	61.03	-12.97	74	49.76	31.1	10.17	30	100	346	P	V
		5350.24	47.3	-6.7	54	36.03	31.1	10.17	30	100	346	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	47.91	-20.29	68.2	54.6	39.7	14.54	60.93	100	0	P	H
		15780	46.5	-27.5	74	53.35	37.16	17.44	61.45	100	0	P	H
		18000	59.55	-14.45	74	48.75	49	19.04	57.24	100	32	P	H
		18000	49.6	-4.4	54	38.8	49	19.04	57.24	100	32	A	H
		10520	47.18	-21.02	68.2	53.87	39.7	14.54	60.93	100	0	P	V
		15780	46.8	-27.2	74	53.65	37.16	17.44	61.45	100	0	P	V
		18000	59.74	-14.26	74	48.94	49	19.04	57.24	100	22	P	V
		18000	49.56	-4.44	54	38.76	49	19.04	57.24	100	22	A	V
802.11a CH 60 5300MHz		10600	48.24	-25.76	74	54.88	39.7	14.58	60.92	100	0	P	H
		15900	46.35	-27.65	74	52.64	37.2	17.5	60.99	100	0	P	H
		17988.9	59.42	-14.58	74	48.86	48.8	19.03	57.27	100	33	P	H
		17988.9	49.39	-4.61	54	38.83	48.8	19.03	57.27	100	33	A	H
		10600	48.52	-25.48	74	55.16	39.7	14.58	60.92	100	0	P	V
		15900	46.68	-27.32	74	52.97	37.2	17.5	60.99	100	0	P	V
		17988.9	59.61	-14.39	74	49.05	48.8	19.03	57.27	100	23	P	V
		17988.9	49.65	-4.35	54	39.09	48.8	19.03	57.27	100	23	A	V
802.11a CH 64 5320MHz		10640	48.47	-25.53	74	55	39.78	14.6	60.91	100	0	P	H
		15960	45.84	-28.16	74	51.8	37.26	17.54	60.76	100	0	P	H
		18000	59.82	-14.18	74	49.02	49	19.04	57.24	100	29	P	H
		18000	49.86	-4.14	54	39.06	49	19.04	57.24	100	29	A	H
		10640	49.15	-24.85	74	55.68	39.78	14.6	60.91	100	0	P	V
		15960	46.96	-27.04	74	52.92	37.26	17.54	60.76	100	0	P	V
		18000	59.74	-14.26	74	48.94	49	19.04	57.24	100	19	P	V
		18000	49.74	-4.26	54	38.94	49	19.04	57.24	100	19	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
		5110.5	51.11	-22.89	74	39.36	31.8	9.96	30.01	100	47	P	H
		5088.74	41.93	-12.07	54	30.23	31.78	9.93	30.01	100	47	A	H
	*	5260	108.74	-	-	97.44	31.2	10.1	30	100	47	P	H
	*	5260	100.68	-	-	89.38	31.2	10.1	30	100	47	A	H
802.11n		5389.44	51.55	-22.45	74	40.01	31.34	10.2	30	100	47	P	H
HT20		5449.92	41.93	-12.07	54	30.07	31.6	10.25	29.99	100	47	A	H
CH 52		5080.58	51.23	-22.77	74	39.57	31.76	9.92	30.02	100	347	P	V
5260MHz		5138.72	41.74	-12.26	54	29.96	31.8	9.99	30.01	100	347	A	V
	*	5260	108.35	-	-	97.05	31.2	10.1	30	100	347	P	V
	*	5260	100.36	-	-	89.06	31.2	10.1	30	100	347	A	V
		5456.64	51.57	-22.43	74	39.7	31.6	10.26	29.99	100	347	P	V
		5448.48	41.75	-12.25	54	29.9	31.59	10.25	29.99	100	347	A	V
		5063.92	51.4	-22.6	74	39.78	31.73	9.91	30.02	100	46	P	H
		5133.28	41.81	-12.19	54	30.04	31.8	9.98	30.01	100	46	A	H
	*	5300	107.58	-	-	96.25	31.2	10.13	30	100	46	P	H
	*	5300	98.44	-	-	87.11	31.2	10.13	30	100	46	A	H
802.11n		5351.52	56.17	-17.83	74	44.89	31.11	10.17	30	100	46	P	H
HT20		5351.76	48.76	-5.24	54	37.48	31.11	10.17	30	100	46	A	H
CH 60		5088.06	50.99	-23.01	74	39.29	31.78	9.93	30.01	100	345	P	V
5300MHz		5104.38	41.8	-12.2	54	30.06	31.8	9.95	30.01	100	345	A	V
	*	5300	108.69	-	-	97.36	31.2	10.13	30	100	345	P	V
	*	5300	100.83	-	-	89.5	31.2	10.13	30	100	345	A	V
		5352	55.21	-18.79	74	43.93	31.11	10.17	30	100	345	P	V
		5351.76	48.1	-5.9	54	36.82	31.11	10.17	30	100	345	A	V

	*	5320	107.95	-	-	96.64	31.16	10.15	30	100	46	P	H
	*	5320	100.34	-	-	89.03	31.16	10.15	30	100	46	A	H
		5350.08	62.75	-11.25	74	51.48	31.1	10.17	30	100	46	P	H
		5371.52	48.47	-5.53	54	37.05	31.23	10.19	30	100	46	A	H
802.11n													H
HT20													H
CH 64	*	5320	107.81	-	-	96.5	31.16	10.15	30	100	346	P	V
5320MHz	*	5320	99.99	-	-	88.68	31.16	10.15	30	100	346	A	V
		5350.24	63.63	-10.37	74	52.36	31.1	10.17	30	100	346	P	V
		5371.68	47.45	-6.55	54	36.03	31.23	10.19	30	100	346	A	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	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	46.93	-21.27	68.2	53.62	39.7	14.54	60.93	100	0	P	H
		15780	47.19	-26.81	74	54.04	37.16	17.44	61.45	100	0	P	H
		18000	59.78	-14.22	74	48.98	49	19.04	57.24	300	354	P	H
		18000	49.8	-4.2	54	39	49	19.04	57.24	300	354	A	H
		10520	46.7	-21.5	68.2	53.39	39.7	14.54	60.93	100	0	P	V
		15780	46.05	-27.95	74	52.9	37.16	17.44	61.45	100	0	P	V
		17900.1	58.88	-15.12	74	50.19	47.2	18.96	57.47	100	123	P	V
		17900.1	48.94	-5.06	54	40.25	47.2	18.96	57.47	100	123	A	V
802.11n HT20 CH 60 5300MHz		10600	47.71	-26.29	74	54.35	39.7	14.58	60.92	100	0	P	H
		15900	46.01	-27.99	74	52.3	37.2	17.5	60.99	100	0	P	H
		17988.9	60	-14	74	49.44	48.8	19.03	57.27	300	346	P	H
		17988.9	50.18	-3.82	54	39.62	48.8	19.03	57.27	300	346	A	H
		10600	48.35	-25.65	74	54.99	39.7	14.58	60.92	100	0	P	V
		15900	45.96	-28.04	74	52.25	37.2	17.5	60.99	100	0	P	V
		17988.9	59.66	-14.34	74	49.1	48.8	19.03	57.27	100	130	P	V
		17988.9	49.81	-4.19	54	39.25	48.8	19.03	57.27	100	130	A	V
802.11n HT20 CH 64 5320MHz		10640	48.15	-25.85	74	54.68	39.78	14.6	60.91	100	0	P	H
		15960	45.72	-28.28	74	51.68	37.26	17.54	60.76	100	0	P	H
		18000	59.52	-14.48	74	48.72	49	19.04	57.24	300	237	P	H
		18000	49.71	-4.29	54	38.91	49	19.04	57.24	300	237	A	H
		10640	48.46	-25.54	74	54.99	39.78	14.6	60.91	100	0	P	V
		15960	47.16	-26.84	74	53.12	37.26	17.54	60.76	100	0	P	V
		18000	60.64	-13.36	74	49.84	49	19.04	57.24	100	139	P	V
		18000	50.73	-3.27	54	39.93	49	19.04	57.24	100	139	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (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 54 5270MHz		5099.62	51.52	-22.48	74	39.79	31.8	9.94	30.01	100	47	P	H
		5111.86	41.78	-12.22	54	30.03	31.8	9.96	30.01	100	47	A	H
	*	5270	104.87	-	-	93.56	31.2	10.11	30	100	47	P	H
	*	5270	96.48	-	-	85.17	31.2	10.11	30	100	47	A	H
		5372.88	52.4	-21.6	74	40.97	31.24	10.19	30	100	47	P	H
		5372.4	43.68	-10.32	54	32.26	31.23	10.19	30	100	47	A	H
		5074.46	51.31	-22.69	74	39.66	31.75	9.92	30.02	100	346	P	V
		5137.36	41.87	-12.13	54	30.1	31.8	9.98	30.01	100	346	A	V
	*	5270	103.22	-	-	91.91	31.2	10.11	30	100	346	P	V
	*	5270	95.85	-	-	84.54	31.2	10.11	30	100	346	A	V
		5373.6	52.08	-21.92	74	40.65	31.24	10.19	30	100	346	P	V
		5372.88	43.39	-10.61	54	31.96	31.24	10.19	30	100	346	A	V
802.11n HT40 CH 62 5310MHz		5098.26	51.1	-22.9	74	39.37	31.8	9.94	30.01	100	45	P	H
		5099.96	41.73	-12.27	54	30	31.8	9.94	30.01	100	45	A	H
	*	5310	104.68	-	-	93.36	31.18	10.14	30	100	45	P	H
	*	5310	97.08	-	-	85.76	31.18	10.14	30	100	45	A	H
		5351.04	66.55	-7.45	74	55.27	31.11	10.17	30	100	45	P	H
		5351.76	50.64	-3.36	54	39.36	31.11	10.17	30	100	45	A	H
		5099.28	51.08	-22.92	74	39.35	31.8	9.94	30.01	100	347	P	V
		5149.94	41.92	-12.08	54	30.13	31.8	10	30.01	100	347	A	V
	*	5310	104.38	-	-	93.06	31.18	10.14	30	100	347	P	V
	*	5310	96.16	-	-	84.84	31.18	10.14	30	100	347	A	V
		5351.52	65.27	-8.73	74	53.99	31.11	10.17	30	100	347	P	V
		5350.32	50.03	-3.97	54	38.76	31.1	10.17	30	100	347	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	46.62	-21.58	68.2	53.29	39.7	14.55	60.92	100	0	P	H
		15810	46.64	-27.36	74	53.41	37.11	17.45	61.33	100	0	P	H
		18000	59.26	-14.74	74	48.46	49	19.04	57.24	300	296	P	H
		18000	49.18	-4.82	54	38.38	49	19.04	57.24	300	296	A	H
		10540	47.03	-21.17	68.2	53.7	39.7	14.55	60.92	100	0	P	V
		15810	45.87	-28.13	74	52.64	37.11	17.45	61.33	100	0	P	V
		17988.9	59.92	-14.08	74	49.36	48.8	19.03	57.27	100	135	P	V
		17988.9	50.08	-3.92	54	39.52	48.8	19.03	57.27	100	135	A	V
802.11n HT40 CH 62 5310MHz		10620	48.18	-25.82	74	54.76	39.74	14.59	60.91	100	0	P	H
		15930	45.9	-28.1	74	52.02	37.23	17.53	60.88	100	0	P	H
		18000	59.46	-14.54	74	48.66	49	19.04	57.24	300	247	P	H
		18000	49.04	-4.96	54	38.24	49	19.04	57.24	300	247	A	H
		10620	48.16	-25.84	74	54.74	39.74	14.59	60.91	100	0	P	V
		15930	46.56	-27.44	74	52.68	37.23	17.53	60.88	100	0	P	V
		18000	59.59	-14.41	74	48.79	49	19.04	57.24	100	134	P	V
		18000	49.29	-4.71	54	38.49	49	19.04	57.24	100	134	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (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)
802.11a CH 100 5500MHz		5457.84	58.73	-15.27	74	46.86	31.6	10.26	29.99	100	44	P	H
		5466.32	62.06	-6.14	68.2	50.18	31.6	10.27	29.99	100	44	P	H
		5447.76	48.64	-5.36	54	36.79	31.59	10.25	29.99	100	44	A	H
	*	5500	110.29	-	-	98.38	31.6	10.3	29.99	100	44	P	H
	*	5500	102.51	-	-	90.6	31.6	10.3	29.99	100	44	A	H
													H
		5453.68	55.43	-18.57	74	43.56	31.6	10.26	29.99	100	346	P	V
		5467.44	63.63	-4.57	68.2	51.75	31.6	10.27	29.99	100	346	P	V
		5447.76	47.26	-6.74	54	35.41	31.59	10.25	29.99	100	346	A	V
	*	5500	109.38	-	-	97.47	31.6	10.3	29.99	100	346	P	V
	*	5500	101.43	-	-	89.52	31.6	10.3	29.99	100	346	A	V
													V
802.11a CH 116 5580MHz		5459.2	52.66	-21.34	74	40.79	31.6	10.26	29.99	100	42	P	H
		5467.26	51.01	-17.19	68.2	39.13	31.6	10.27	29.99	100	42	P	H
		5457.9	41.83	-12.17	54	29.96	31.6	10.26	29.99	100	42	A	H
	*	5580	110.15	-	-	98.28	31.56	10.36	30.05	100	42	P	H
	*	5580	102.71	-	-	90.84	31.56	10.36	30.05	100	42	A	H
		5753.03	51.71	-16.49	68.2	39.53	31.8	10.55	30.17	100	42	P	H
		5442.56	52.13	-21.87	74	40.3	31.57	10.25	29.99	100	346	P	V
		5465.18	50.25	-17.95	68.2	38.37	31.6	10.27	29.99	100	346	P	V
		5444.64	41.73	-12.27	54	29.89	31.58	10.25	29.99	100	346	A	V
	*	5580	109.39	-	-	97.52	31.56	10.36	30.05	100	346	P	V
	*	5580	101.07	-	-	89.2	31.56	10.36	30.05	100	346	A	V
		5748.62	51.42	-16.78	68.2	39.25	31.8	10.54	30.17	100	346	P	V

802.11a CH 140 5700MHz	*	5700	107.7	-	-	95.64	31.7	10.49	30.13	100	42	P	H
	*	5700	99.93	-	-	87.87	31.7	10.49	30.13	100	42	A	H
		5727.08	65.96	-2.24	68.2	53.84	31.75	10.52	30.15	100	42	P	H
													H
													H
													H
	*	5700	106.28	-	-	94.22	31.7	10.49	30.13	100	341	P	V
	*	5700	98.06	-	-	86	31.7	10.49	30.13	100	341	A	V
		5726.04	63.92	-4.28	68.2	51.8	31.75	10.52	30.15	100	341	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (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	49.64	-24.36	74	55.31	40.4	14.79	60.86	100	0	P	H
		16500	48.81	-19.39	68.2	50.53	38.9	17.94	58.56	100	0	P	H
		17988.9	60.16	-13.84	74	49.6	48.8	19.03	57.27	300	246	P	H
		17988.9	50.36	-3.64	54	39.8	48.8	19.03	57.27	300	246	A	H
		11000	49.99	-24.01	74	55.66	40.4	14.79	60.86	100	0	P	V
		16500	49.28	-18.92	68.2	51	38.9	17.94	58.56	100	0	P	V
		18000	59.98	-14.02	74	49.18	49	19.04	57.24	100	135	P	V
		18000	50.17	-3.83	54	39.37	49	19.04	57.24	100	135	A	V
802.11a CH 116 5580MHz		11160	47.66	-26.34	74	53.69	39.96	14.87	60.86	100	0	P	H
		16740	50.22	-17.98	68.2	50.79	39.94	18.12	58.63	100	0	P	H
		17988.9	59.62	-14.38	74	49.06	48.8	19.03	57.27	300	247	P	H
		17988.9	49.82	-4.18	54	39.26	48.8	19.03	57.27	300	247	A	H
		11160	47.98	-26.02	74	54.01	39.96	14.87	60.86	100	0	P	V
		16740	49.43	-18.77	68.2	50	39.94	18.12	58.63	100	0	P	V
		17988.9	60.28	-13.72	74	49.72	48.8	19.03	57.27	100	103	P	V
		17988.9	50.24	-3.76	54	39.68	48.8	19.03	57.27	100	103	A	V
802.11a CH 140 5700MHz		11400	48.51	-25.49	74	54.39	40	14.99	60.87	100	0	P	H
		17100	50.3	-17.9	68.2	49.96	40.6	18.38	58.64	100	0	P	H
		17977.8	59.25	-14.75	74	48.91	48.6	19.03	57.29	300	247	P	H
		17977.8	49.21	-4.79	54	38.87	48.6	19.03	57.29	300	247	A	H
		11400	48.39	-25.61	74	54.27	40	14.99	60.87	100	0	P	V
		17100	50.21	-17.99	68.2	49.87	40.6	18.38	58.64	100	0	P	V
		18000	59.66	-14.34	74	48.86	49	19.04	57.24	100	136	P	V
		18000	49.46	-4.54	54	38.66	49	19.04	57.24	100	136	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5448.08	56.11	-17.89	74	44.26	31.59	10.25	29.99	100	43	P	H
		5468.4	62.52	-5.68	68.2	50.64	31.6	10.27	29.99	100	43	P	H
		5448.56	48.53	-5.47	54	36.68	31.59	10.25	29.99	100	43	A	H
	*	5500	109.68	-	-	97.77	31.6	10.3	29.99	100	43	P	H
802.11n	*	5500	102.16	-	-	90.25	31.6	10.3	29.99	100	43	A	H
HT20													H
CH 100		5447.6	55.19	-18.81	74	43.34	31.59	10.25	29.99	100	346	P	V
5500MHz		5469.84	60.8	-7.4	68.2	48.92	31.6	10.27	29.99	100	346	P	V
		5448.56	47.56	-6.44	54	35.71	31.59	10.25	29.99	100	346	A	V
	*	5500	108.72	-	-	96.81	31.6	10.3	29.99	100	346	P	V
	*	5500	101.42	-	-	89.51	31.6	10.3	29.99	100	346	A	V
													V
		5390.04	50.85	-23.15	74	39.31	31.34	10.2	30	100	42	P	H
		5462.58	50.95	-17.25	68.2	39.08	31.6	10.26	29.99	100	42	P	H
		5457.38	42.04	-11.96	54	30.17	31.6	10.26	29.99	100	42	A	H
	*	5580	109.98	-	-	98.11	31.56	10.36	30.05	100	42	P	H
802.11n	*	5580	102.09	-	-	90.22	31.56	10.36	30.05	100	42	A	H
HT20		5728.46	51.81	-16.39	68.2	39.68	31.76	10.52	30.15	100	42	P	H
CH 116		5456.86	51.41	-22.59	74	39.54	31.6	10.26	29.99	100	346	P	V
5580MHz		5460.76	50.71	-17.49	68.2	38.84	31.6	10.26	29.99	100	346	P	V
		5457.64	41.89	-12.11	54	30.02	31.6	10.26	29.99	100	346	A	V
	*	5580	107.87	-	-	96	31.56	10.36	30.05	100	346	P	V
	*	5580	100.54	-	-	88.67	31.56	10.36	30.05	100	346	A	V
		5729.72	51.02	-17.18	68.2	38.9	31.76	10.52	30.16	100	346	P	V

	*	5700	107.61	-	-	95.55	31.7	10.49	30.13	100	42	P	H
	*	5700	99.47	-	-	87.41	31.7	10.49	30.13	100	42	A	H
		5725.96	65.91	-2.29	68.2	53.79	31.75	10.52	30.15	100	42	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	104.92	-	-	92.86	31.7	10.49	30.13	100	340	P	V
5700MHz	*	5700	97.22	-	-	85.16	31.7	10.49	30.13	100	340	A	V
		5725	64.43	-3.77	68.2	52.31	31.75	10.52	30.15	100	340	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	49.7	-24.3	74	55.37	40.4	14.79	60.86	100	0	P	H
		16500	48.82	-19.38	68.2	50.54	38.9	17.94	58.56	100	0	P	H
		18000	59.15	-14.85	74	48.35	49	19.04	57.24	300	278	P	H
		18000	49.35	-4.65	54	38.55	49	19.04	57.24	300	278	A	H
		11000	49.57	-24.43	74	55.24	40.4	14.79	60.86	100	0	P	V
		16500	48.65	-19.55	68.2	50.37	38.9	17.94	58.56	100	0	P	V
		18000	59.92	-14.08	74	49.12	49	19.04	57.24	100	165	P	V
		18000	50.04	-3.96	54	39.24	49	19.04	57.24	100	165	A	V
802.11n HT20 CH 116 5580MHz		11160	48.15	-25.85	74	54.18	39.96	14.87	60.86	100	0	P	H
		16740	49.48	-18.72	68.2	50.05	39.94	18.12	58.63	100	0	P	H
		17988.9	60.09	-13.91	74	49.53	48.8	19.03	57.27	300	285	P	H
		17988.9	50.29	-3.71	54	39.73	48.8	19.03	57.27	300	285	A	H
		11160	48.25	-25.75	74	54.28	39.96	14.87	60.86	100	0	P	V
		16740	50.04	-18.16	68.2	50.61	39.94	18.12	58.63	100	0	P	V
		17988.9	59.43	-14.57	74	48.87	48.8	19.03	57.27	100	135	P	V
		17988.9	49.53	-4.47	54	38.97	48.8	19.03	57.27	100	135	A	V
802.11n HT20 CH 140 5700MHz		11400	48.33	-25.67	74	54.21	40	14.99	60.87	100	0	P	H
		17100	50.26	-17.94	68.2	49.92	40.6	18.38	58.64	100	0	P	H
		18000	59.8	-14.2	74	49	49	19.04	57.24	300	263	P	H
		18000	50.01	-3.99	54	39.21	49	19.04	57.24	300	263	A	H
		11400	48.16	-25.84	74	54.04	40	14.99	60.87	100	0	P	V
		17100	50.53	-17.67	68.2	50.19	40.6	18.38	58.64	100	0	P	V
		17988.9	59.78	-14.22	74	49.22	48.8	19.03	57.27	100	104	P	V
		17988.9	49.98	-4.02	54	39.42	48.8	19.03	57.27	100	104	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	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)
		5457.28	57.85	-16.15	74	45.98	31.6	10.26	29.99	100	43	P	H
		5466.64	65.32	-2.88	68.2	53.44	31.6	10.27	29.99	100	43	P	H
		5459.68	43.68	-10.32	54	31.81	31.6	10.26	29.99	100	43	A	H
	*	5510	105.49	-	-	93.61	31.58	10.3	30	100	43	P	H
802.11n	*	5510	98.69	-	-	86.81	31.58	10.3	30	100	43	A	H
HT40		5749.25	49.83	-18.37	68.2	37.66	31.8	10.54	30.17	100	43	P	H
CH 102		5457.76	53.75	-20.25	74	41.88	31.6	10.26	29.99	100	343	P	V
5510MHz		5470	60.11	-8.09	68.2	48.23	31.6	10.27	29.99	100	343	P	V
		5458.96	42.31	-11.69	54	30.44	31.6	10.26	29.99	100	343	A	V
	*	5510	102.41	-	-	90.53	31.58	10.3	30	100	343	P	V
	*	5510	94.21	-	-	82.33	31.58	10.3	30	100	343	A	V
		5731.295	50.42	-17.78	68.2	38.3	31.76	10.52	30.16	100	343	P	V
		5446.72	52.57	-21.43	74	40.72	31.59	10.25	29.99	100	43	P	H
		5463.52	52.26	-15.94	68.2	40.39	31.6	10.26	29.99	100	43	P	H
		5447.44	44.26	-9.74	54	32.41	31.59	10.25	29.99	100	43	A	H
	*	5550	104.97	-	-	93.16	31.5	10.34	30.03	100	43	P	H
802.11n	*	5550	97.74	-	-	85.93	31.5	10.34	30.03	100	43	A	H
HT40		5760.905	51.22	-16.98	68.2	39.04	31.8	10.56	30.18	100	43	P	H
CH 110		5446.96	53.21	-20.79	74	41.36	31.59	10.25	29.99	100	345	P	V
5550MHz		5462.8	51.37	-16.83	68.2	39.5	31.6	10.26	29.99	100	345	P	V
		5446.72	43.4	-10.6	54	31.55	31.59	10.25	29.99	100	345	A	V
	*	5550	104.33	-	-	92.52	31.5	10.34	30.03	100	345	P	V
	*	5550	96.72	-	-	84.91	31.5	10.34	30.03	100	345	A	V
		5757.755	51.28	-16.92	68.2	39.11	31.8	10.55	30.18	100	345	P	V

		5426.3	50.6	-23.4	74	38.85	31.51	10.23	29.99	100	43	P	H
		5463.4	51	-17.2	68.2	39.13	31.6	10.26	29.99	100	43	P	H
		5435.05	41.86	-12.14	54	30.07	31.54	10.24	29.99	100	43	A	H
	*	5670	104.39	-	-	92.34	31.7	10.46	30.11	100	43	P	H
802.11n	*	5670	96.94	-	-	84.89	31.7	10.46	30.11	100	43	A	H
HT40		5726.15	57.33	-10.87	68.2	45.21	31.75	10.52	30.15	100	43	P	H
CH 134		5454.3	50.97	-23.03	74	39.1	31.6	10.26	29.99	100	345	P	V
5670MHz		5463.4	49.96	-18.24	68.2	38.09	31.6	10.26	29.99	100	345	P	V
		5455	41.68	-12.32	54	29.81	31.6	10.26	29.99	100	345	A	V
	*	5670	102.34	-	-	90.29	31.7	10.46	30.11	100	345	P	V
	*	5670	94.93	-	-	82.88	31.7	10.46	30.11	100	345	A	V
		5735.95	56.65	-11.55	68.2	44.51	31.77	10.53	30.16	100	345	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	49.36	-24.64	74	55.06	40.36	14.8	60.86	100	0	P	H
		16530	48.74	-19.46	68.2	50.48	38.87	17.96	58.57	100	0	P	H
		18000	60.34	-13.66	74	49.54	49	19.04	57.24	300	241	P	H
		18000	50.4	-3.6	54	39.6	49	19.04	57.24	300	241	A	H
		11020	48.48	-25.52	74	54.18	40.36	14.8	60.86	100	0	P	V
		16530	48.41	-19.79	68.2	50.15	38.87	17.96	58.57	100	0	P	V
		18000	59.11	-14.89	74	48.31	49	19.04	57.24	100	128	P	V
		18000	49.19	-4.81	54	38.39	49	19.04	57.24	100	128	A	V
802.11n HT40 CH 110 5550MHz		11100	48.58	-25.42	74	54.4	40.2	14.84	60.86	100	0	P	H
		16650	48.54	-19.66	68.2	49.84	39.25	18.05	58.6	100	0	P	H
		18000	59.65	-14.35	74	48.85	49	19.04	57.24	300	296	P	H
		18000	49.55	-4.45	54	38.75	49	19.04	57.24	300	296	A	H
		11100	48.69	-25.31	74	54.51	40.2	14.84	60.86	100	0	P	V
		16650	48.57	-19.63	68.2	49.87	39.25	18.05	58.6	100	0	P	V
		17977.8	59.09	-14.91	74	48.75	48.6	19.03	57.29	100	147	P	V
		17977.8	48.89	-5.11	54	38.55	48.6	19.03	57.29	100	147	A	V
802.11n HT40 CH 134 5670MHz		11340	47.87	-26.13	74	53.84	39.94	14.96	60.87	100	0	P	H
		17010	50.98	-17.22	68.2	50.75	40.6	18.32	58.69	100	0	P	H
		18000	60.21	-13.79	74	49.41	49	19.04	57.24	300	247	P	H
		18000	50.32	-3.68	54	39.52	49	19.04	57.24	300	247	A	H
		11340	47.64	-26.36	74	53.61	39.94	14.96	60.87	100	0	P	V
		17010	50.11	-18.09	68.2	49.88	40.6	18.32	58.69	100	0	P	V
		17988.9	59.56	-14.44	74	49	48.8	19.03	57.27	100	148	P	V
		17988.9	49.33	-4.67	54	38.77	48.8	19.03	57.27	100	148	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

WIFI 802.11a (SHF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		22312	40.04	-33.96	74	43.53	38.84	12.25	54.58	150	0	P	H
		35754	46.07	-22.13	68.2	44.11	42.05	18.61	58.7	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a													H
SHF		23544	40.49	-27.71	68.2	43.22	38.68	12.56	53.97	150	0	P	V
		33994	43.19	-25.01	68.2	41.37	41.79	17.92	57.89	150	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		77.53	25.11	-14.89	40	43.34	13.03	1.24	32.5	-	-	P	H
		101.78	24.81	-18.69	43.5	39.78	16.08	1.45	32.5	-	-	P	H
		277.35	28.15	-17.85	46	39.44	18.81	2.35	32.45	-	-	P	H
		365.62	33.85	-12.15	46	42.88	20.86	2.61	32.5	-	-	P	H
		394.72	36.28	-9.72	46	44.26	21.74	2.7	32.42	100	0	P	H
		490.75	30.89	-15.11	46	36.57	23.84	3.03	32.55	-	-	P	H
													H
													H
													H
													H
													H
802.11a													H
LF		30	29.12	-10.88	40	36.35	24.59	0.67	32.49	100	0	P	V
		66.86	28.37	-11.63	40	47.83	11.96	1.12	32.54	-	-	P	V
		140.58	25.32	-18.18	43.5	38.69	17.44	1.69	32.5	-	-	P	V
		336.52	30.81	-15.19	46	40.81	20.01	2.52	32.53	-	-	P	V
		365.62	34.23	-11.77	46	43.26	20.86	2.61	32.5	-	-	P	V
		394.72	32.96	-13.04	46	40.94	21.74	2.7	32.42	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b 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

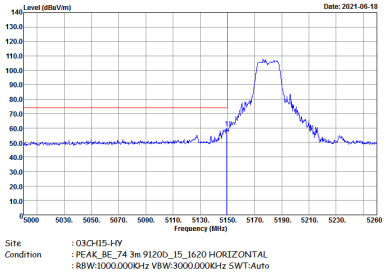
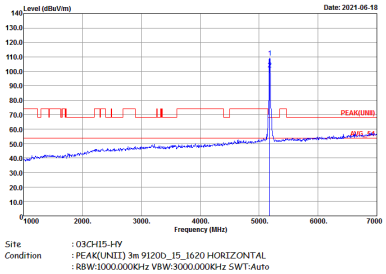
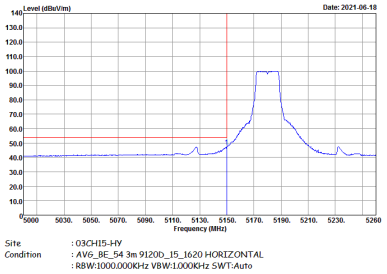
Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	**Temperature :**	22.1~23.1°C
		Relative Humidity :	55.0~60.0%

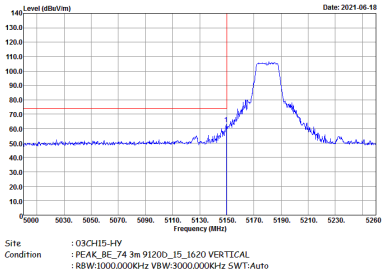
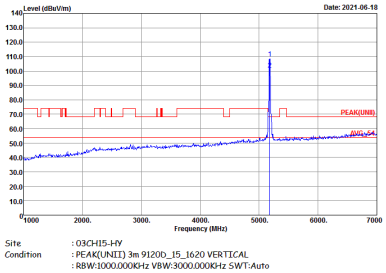
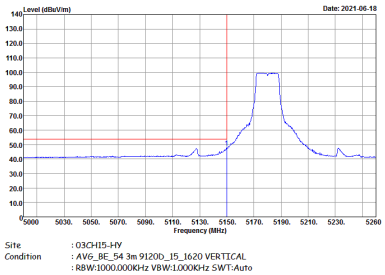
Note symbol

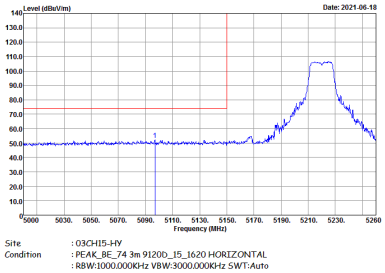
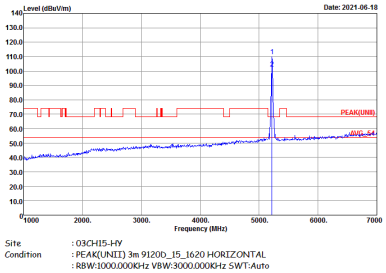
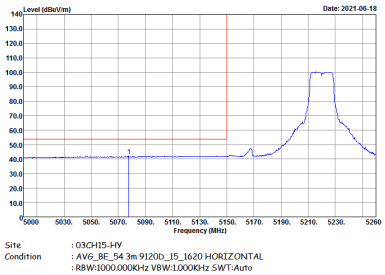
-L	**Low channel location**
-R	**High channel location**

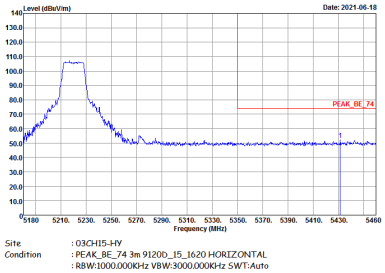
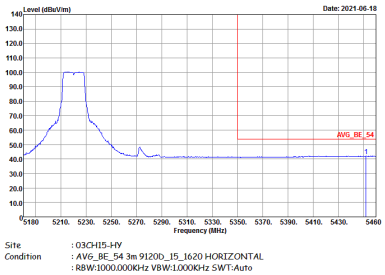
Band 1 - 5150~5250MHz

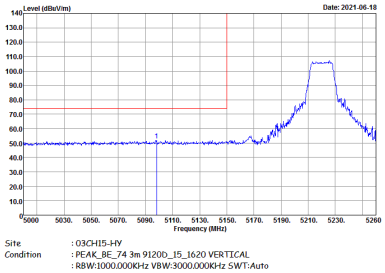
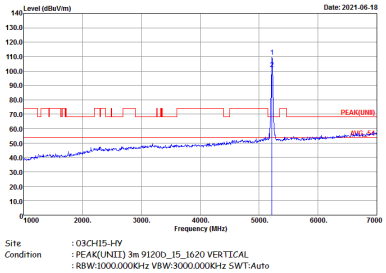
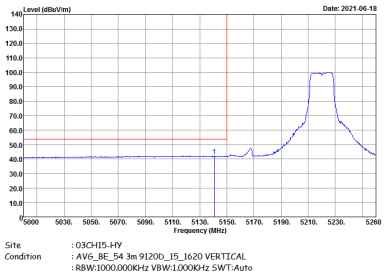
WIFI 802.11a (Band Edge @ 3m)

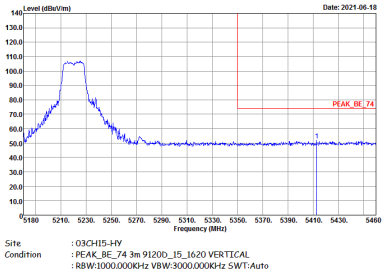
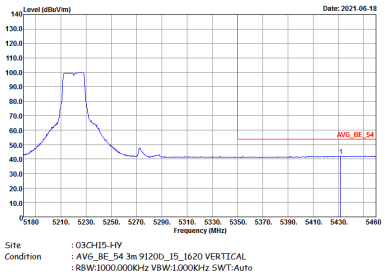
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

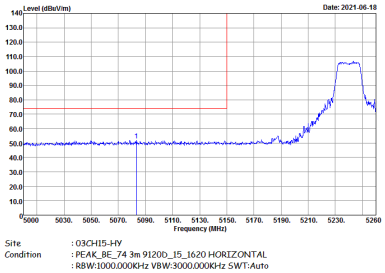
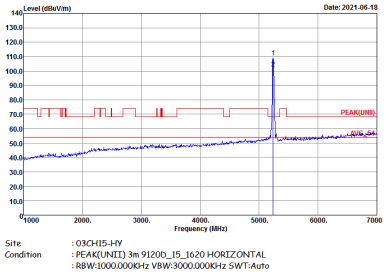
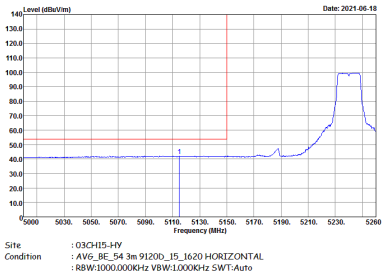
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

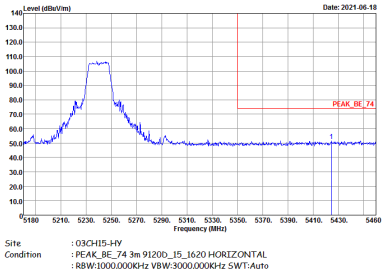
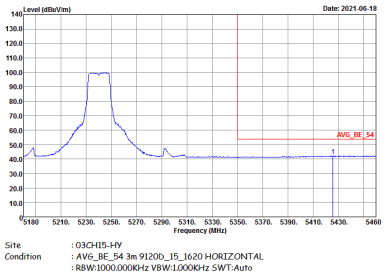
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

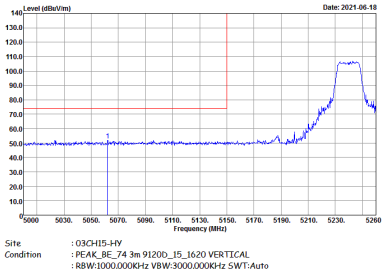
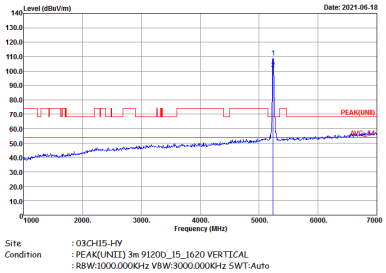
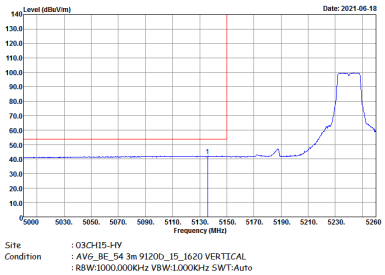
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

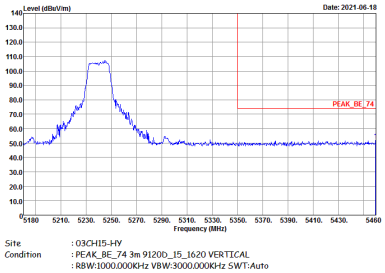
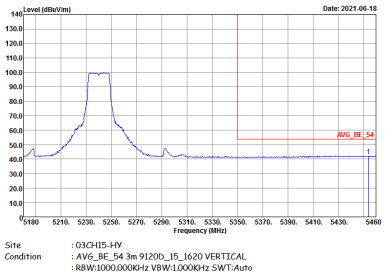
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

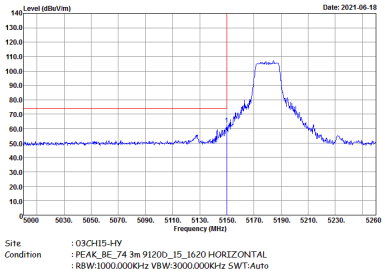
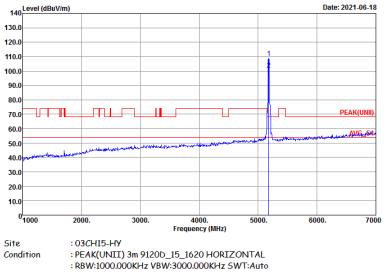
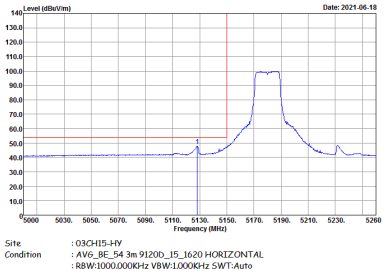
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

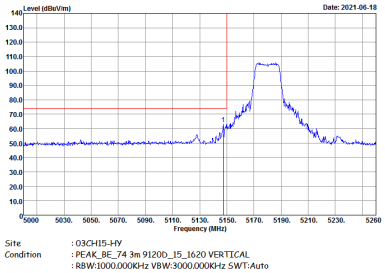
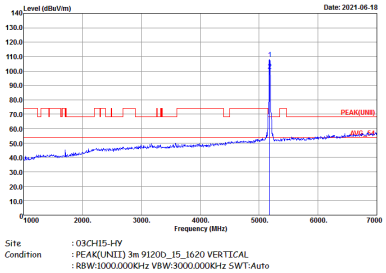
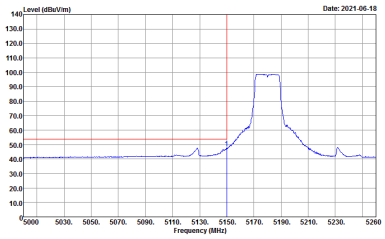
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

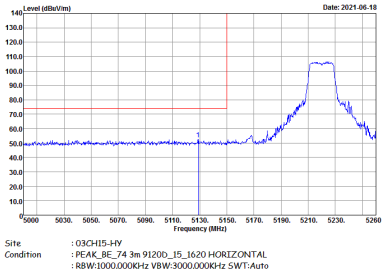
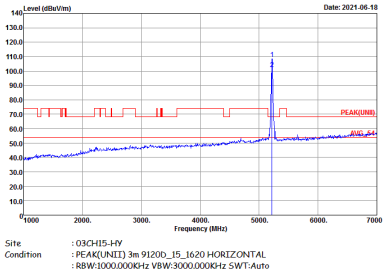
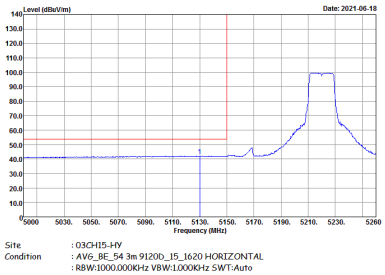
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

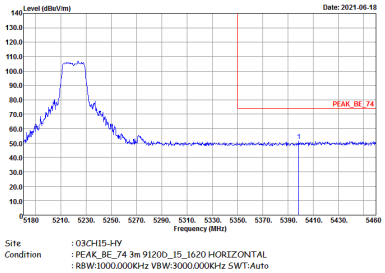
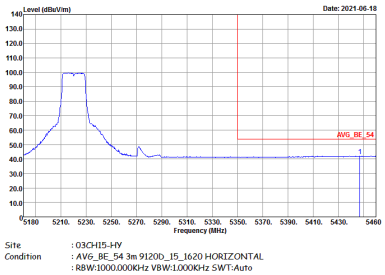
Band 1 5150~5250MHz

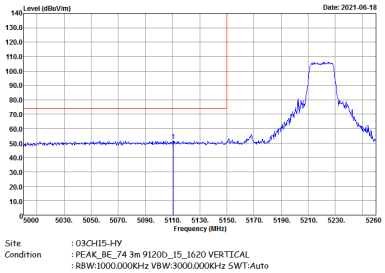
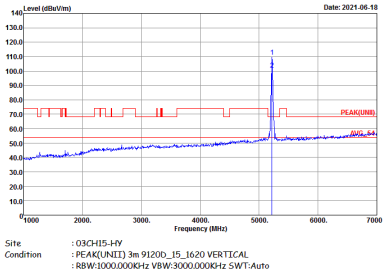
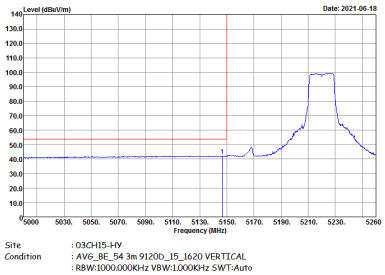
WIFI 802.11n HT20 (Band Edge @ 3m)

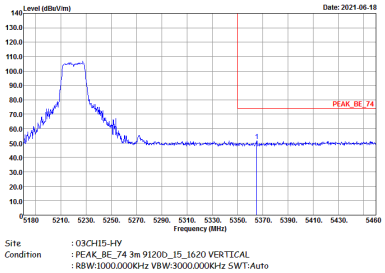
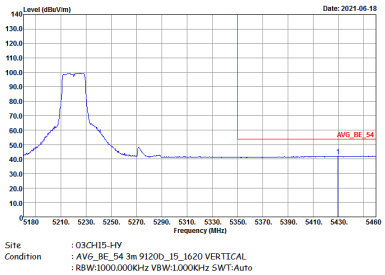
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

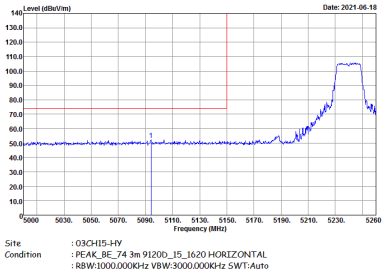
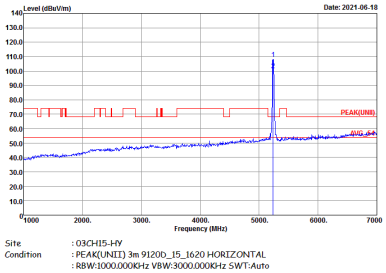
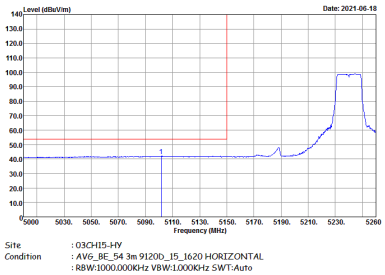
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HV Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

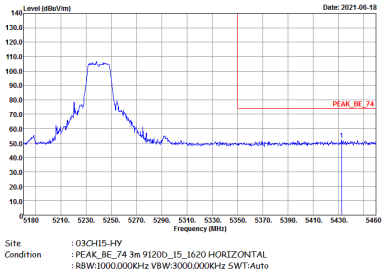
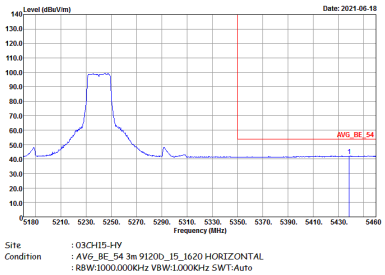
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

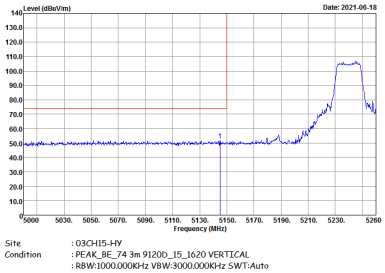
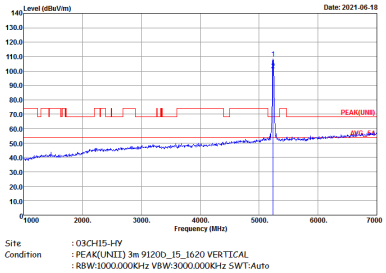
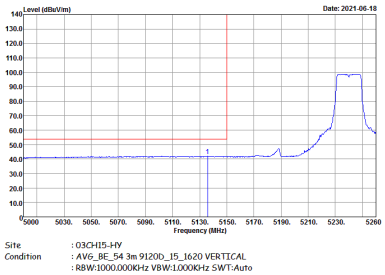
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

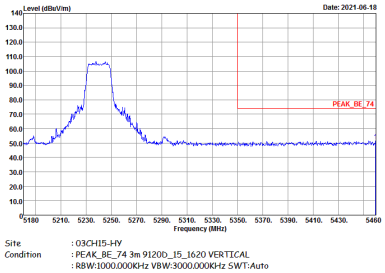
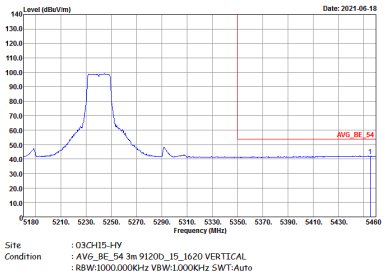
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

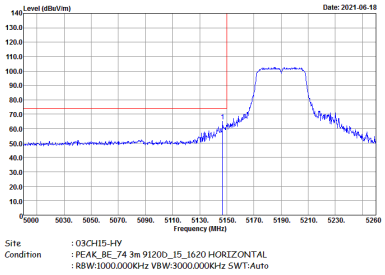
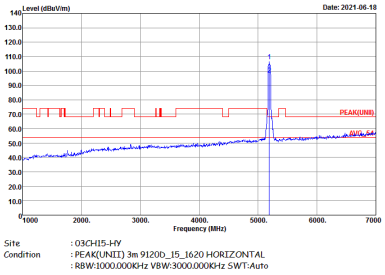
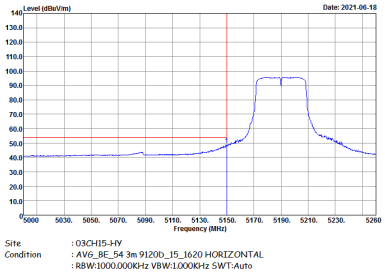
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

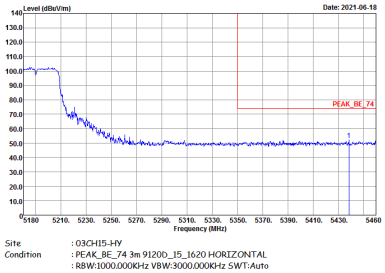
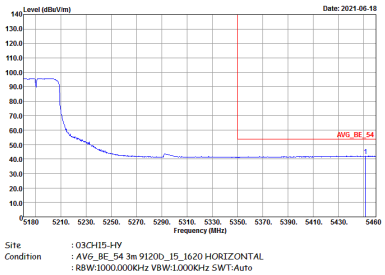
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

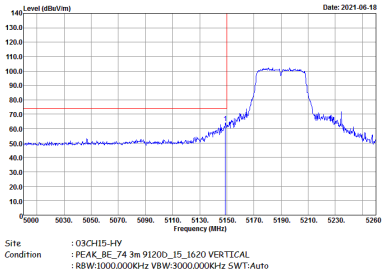
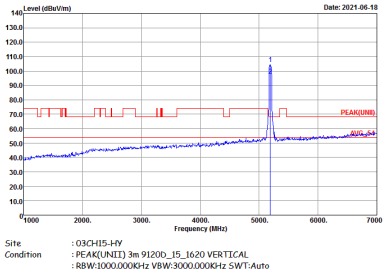
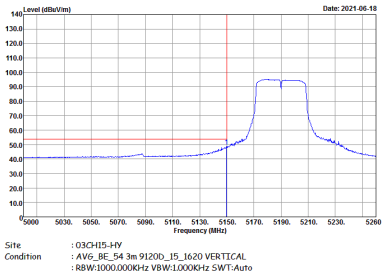
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

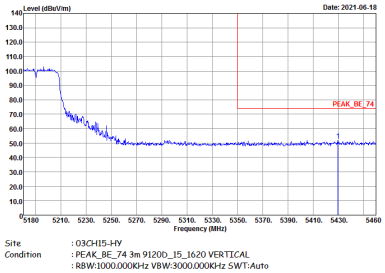
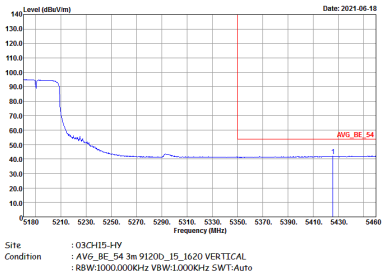
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

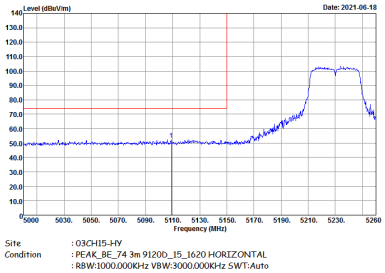
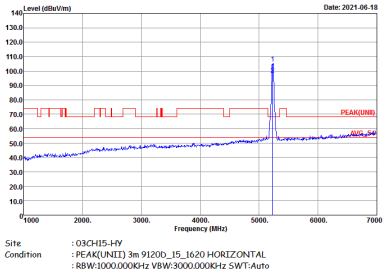
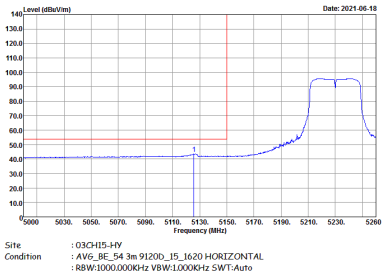
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

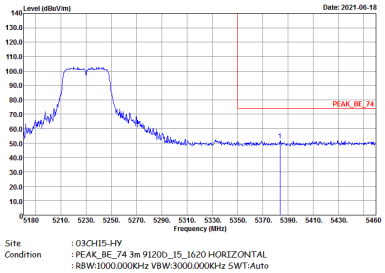
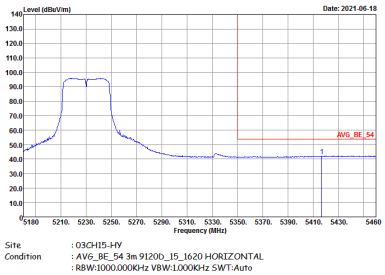
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

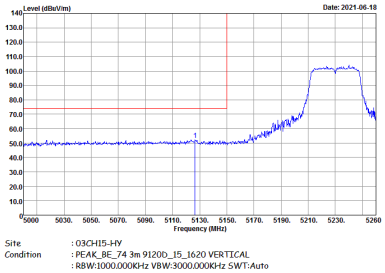
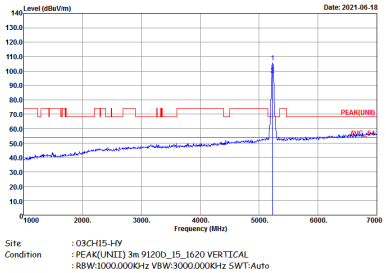
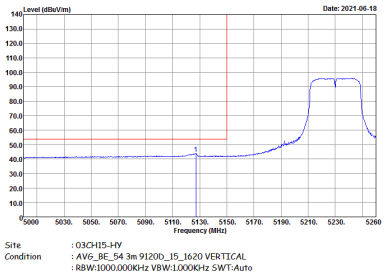
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

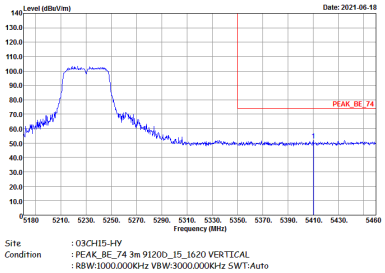
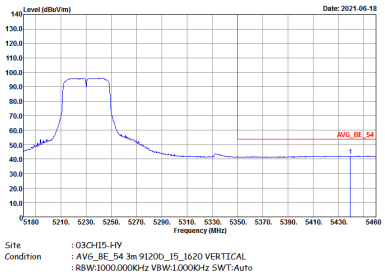
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

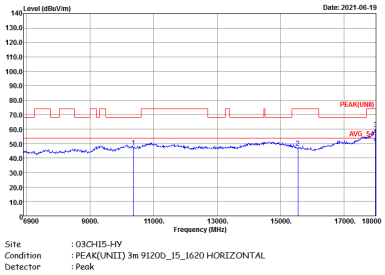
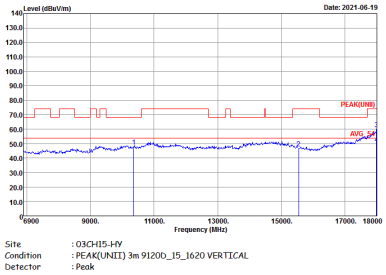
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

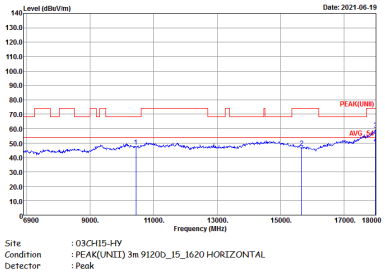
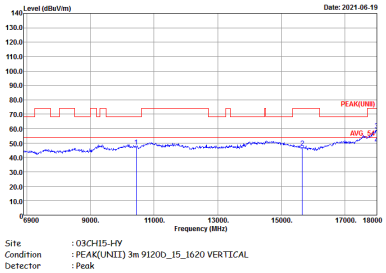
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

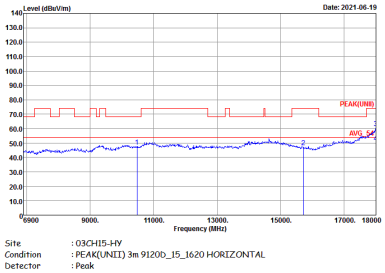
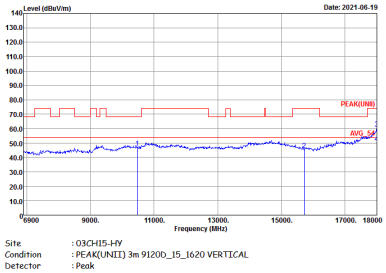
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

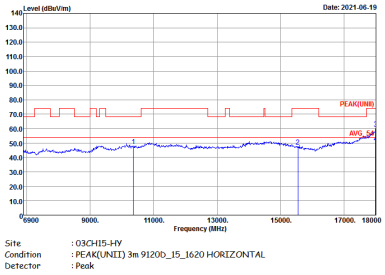
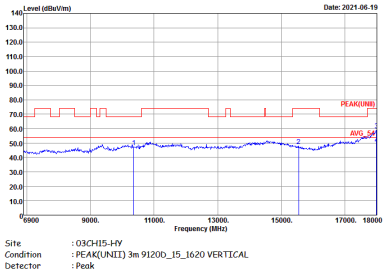
WIFI 802.11a (Harmonic @ 3m)

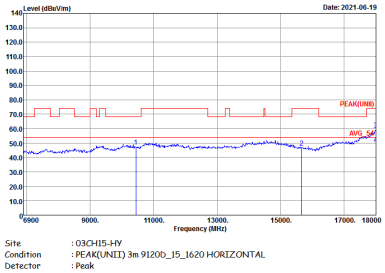
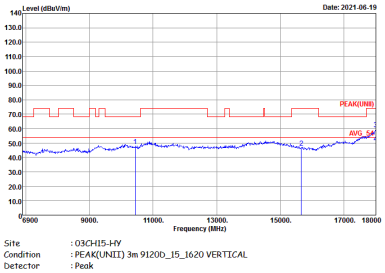
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

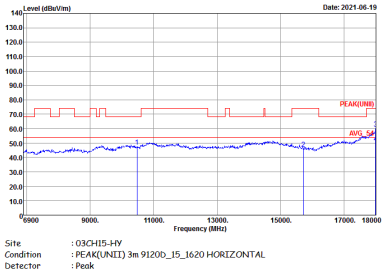
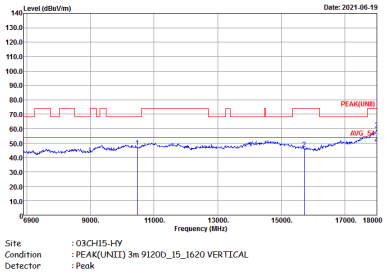
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

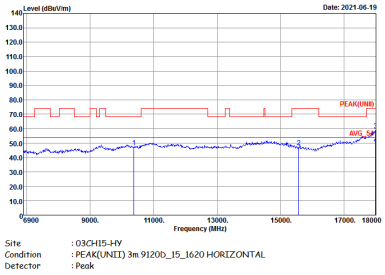
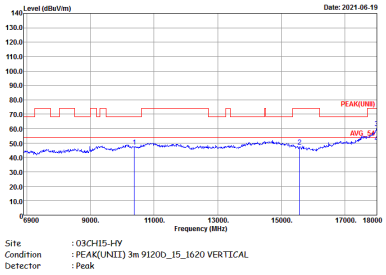
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

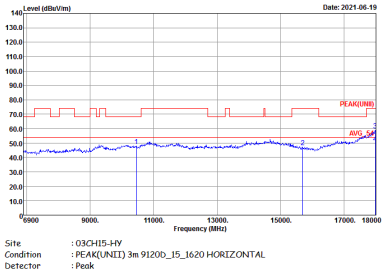
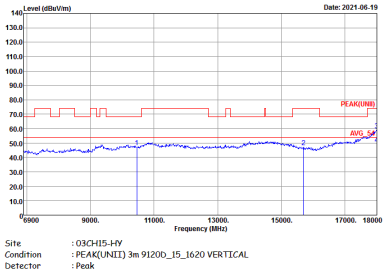
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

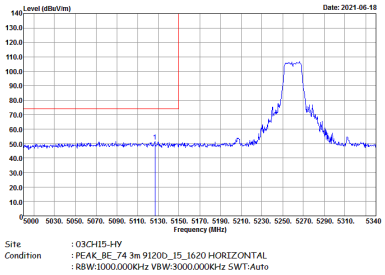
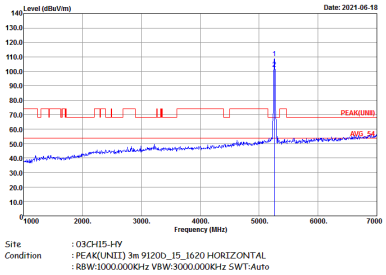
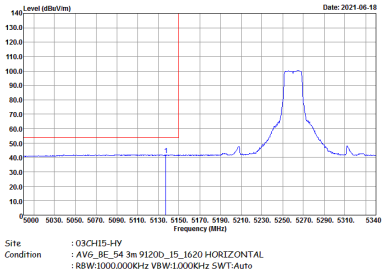
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

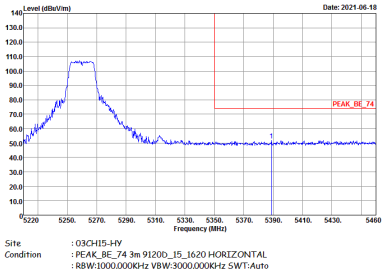
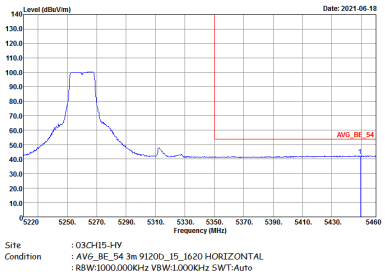
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

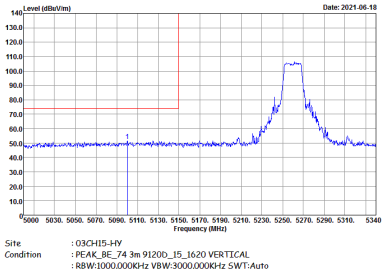
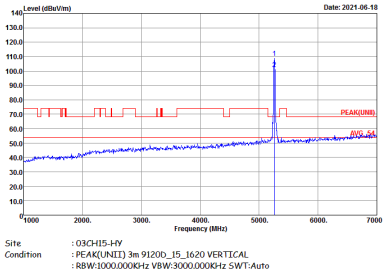
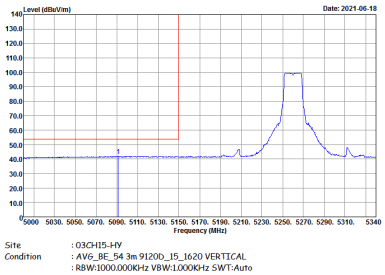
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

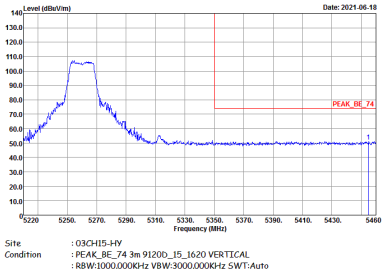
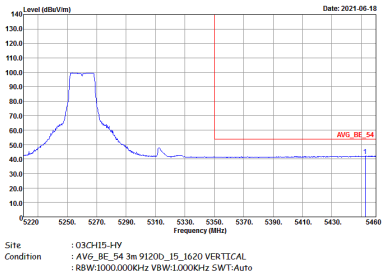
Band 2 - 5250~5350MHz

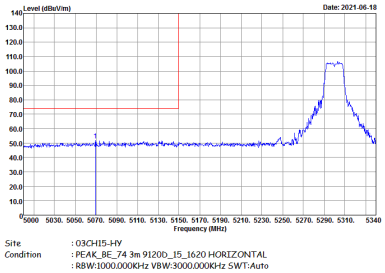
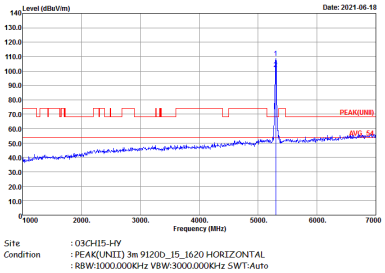
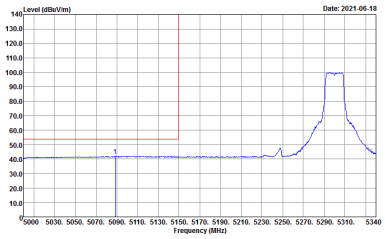
WIFI 802.11a (Band Edge @ 3m)

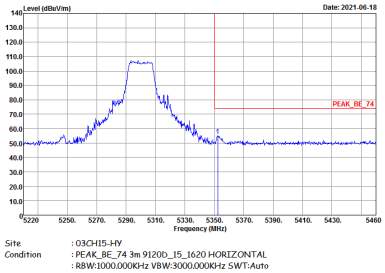
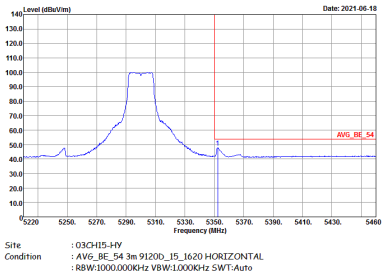
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

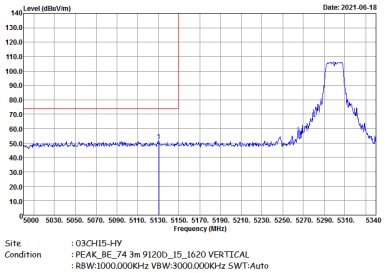
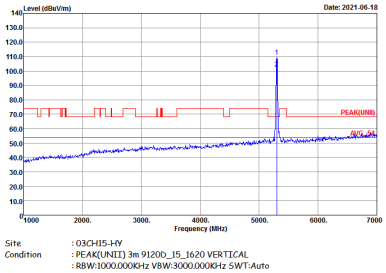
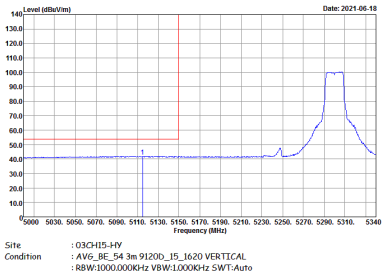
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

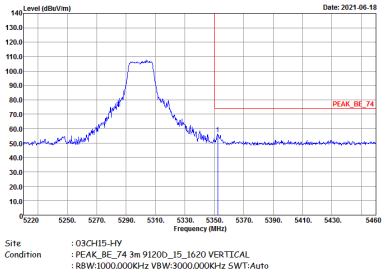
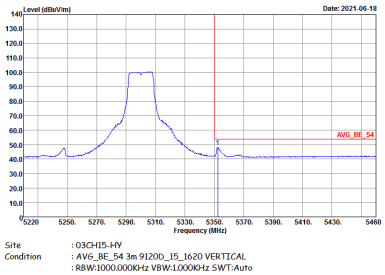
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

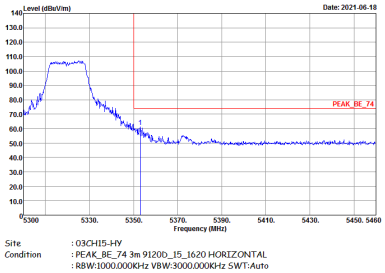
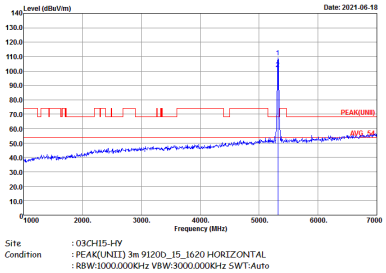
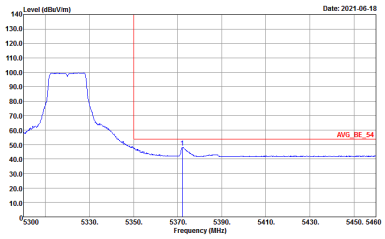
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

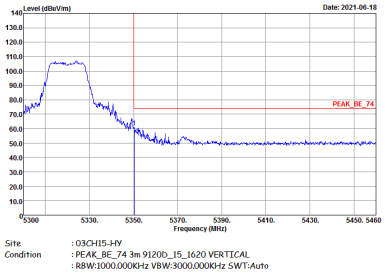
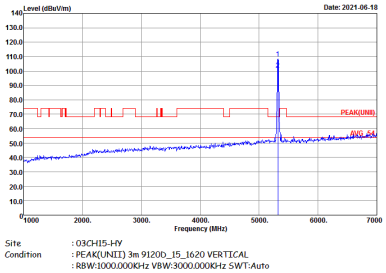
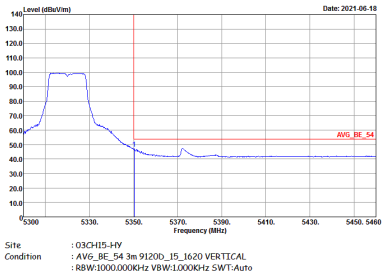
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HV Condition : PEAK(UNII) 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

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

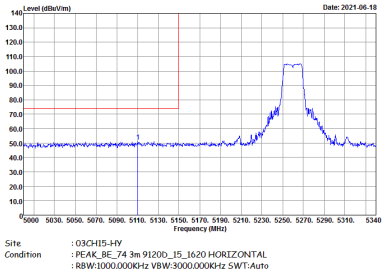
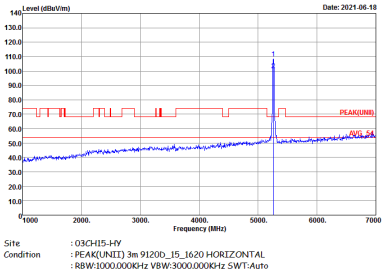
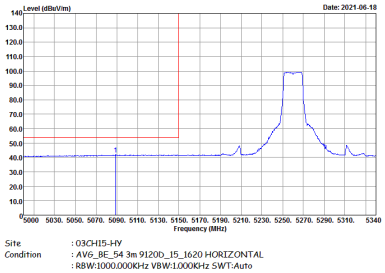
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

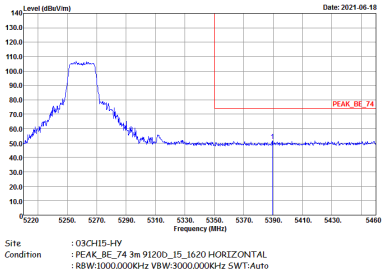
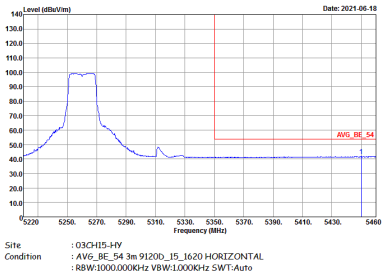
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

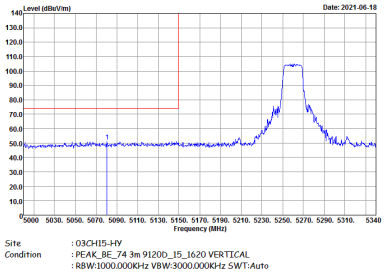
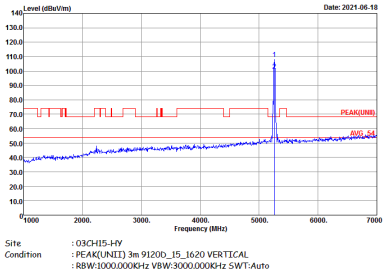
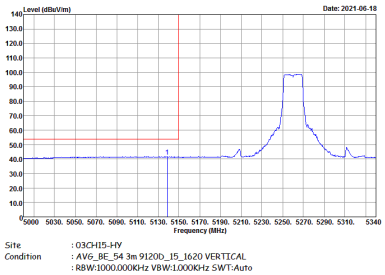
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

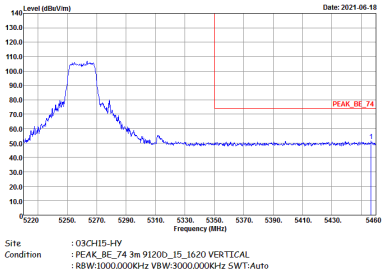
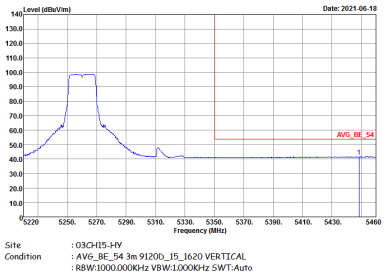
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HV Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

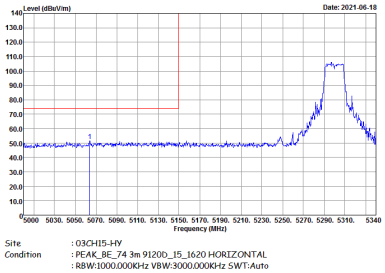
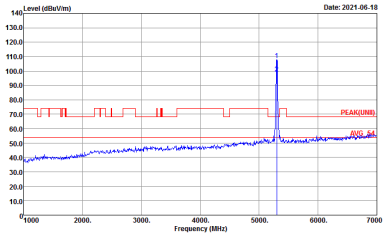
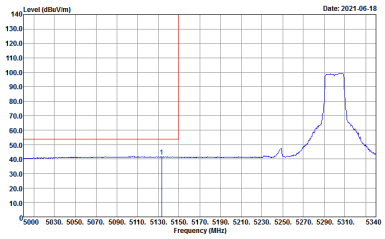
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

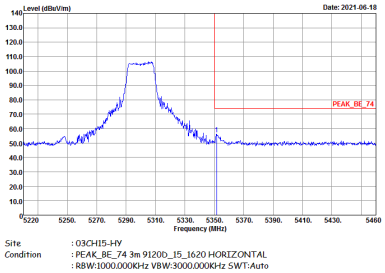
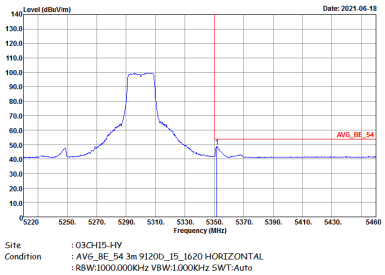
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

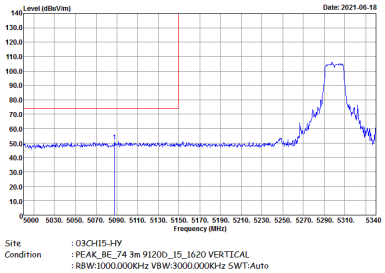
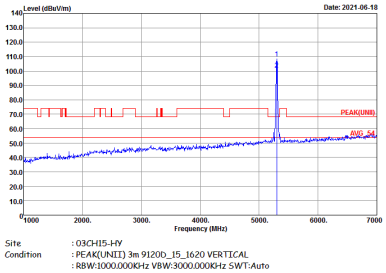
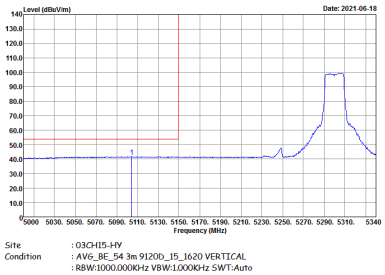
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

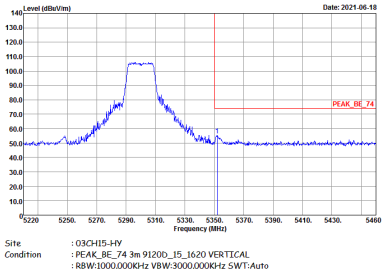
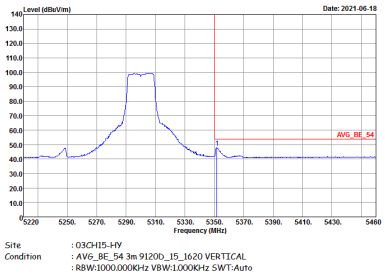
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

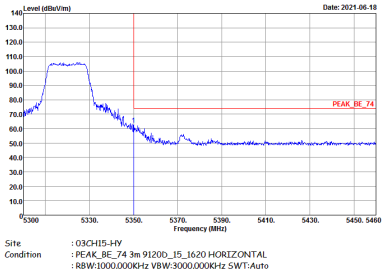
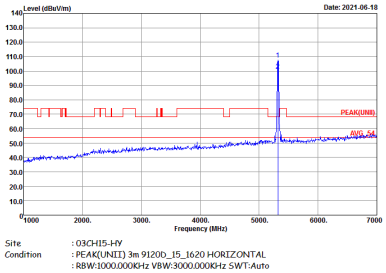
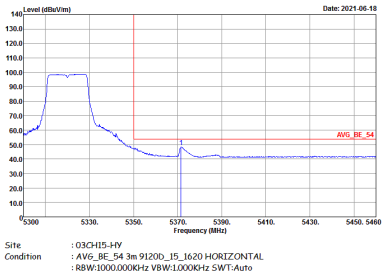
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

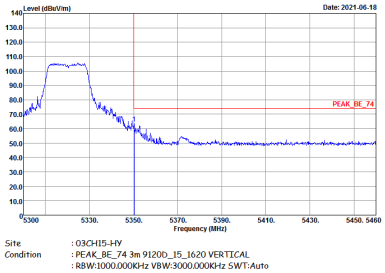
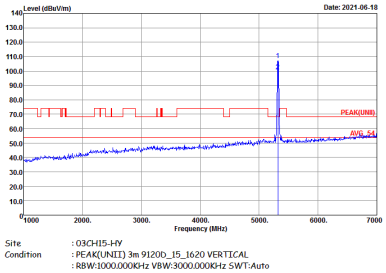
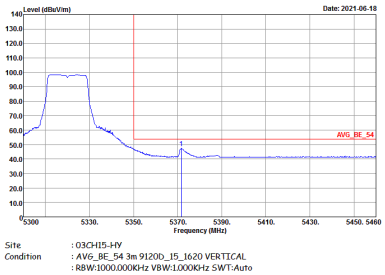
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_I5_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

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

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

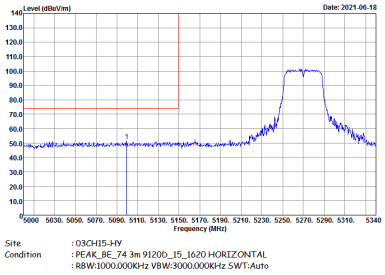
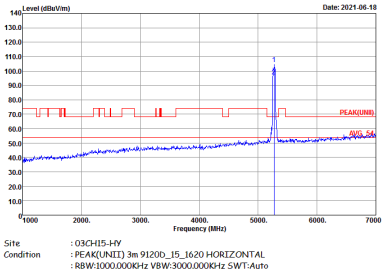
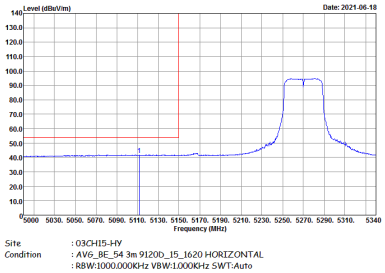
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

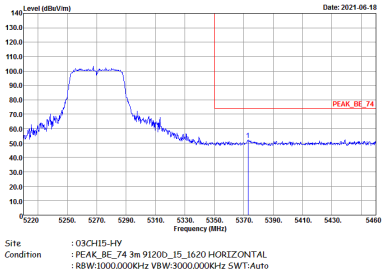
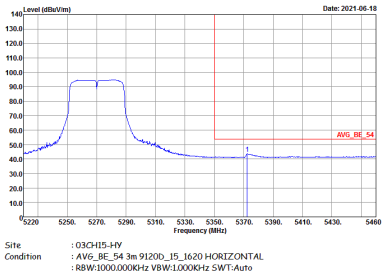
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

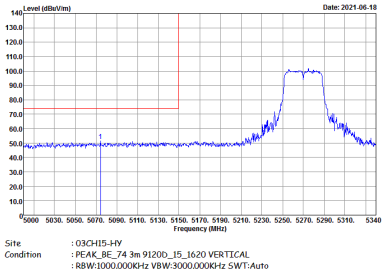
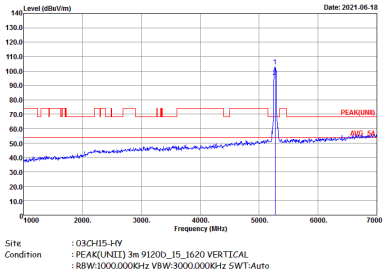
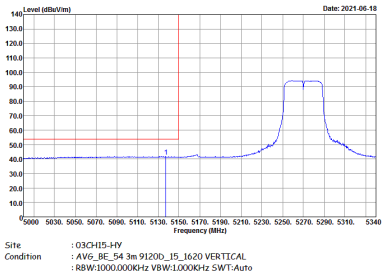
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

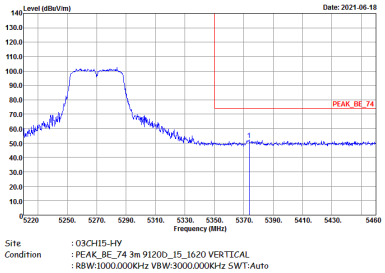
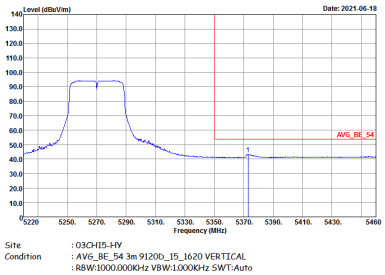
Band 2 5250~5350MHz

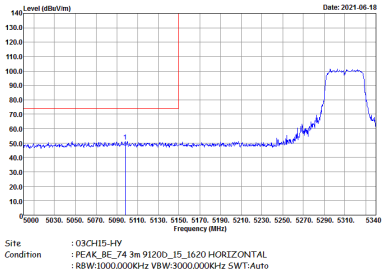
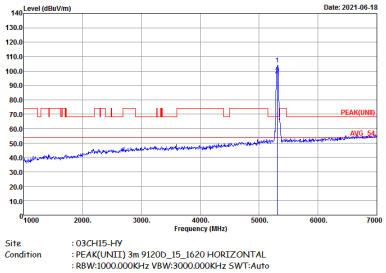
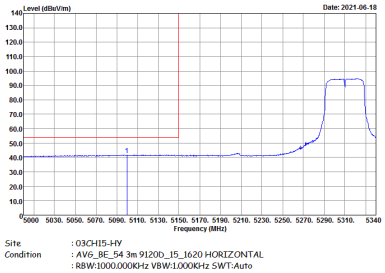
WIFI 802.11n HT40 (Band Edge @ 3m)

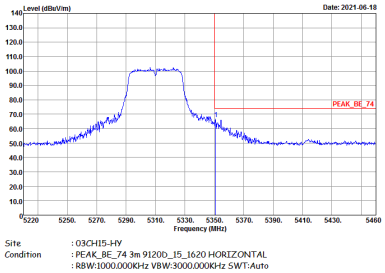
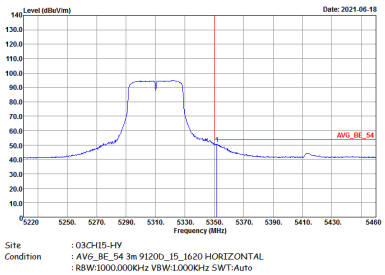
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

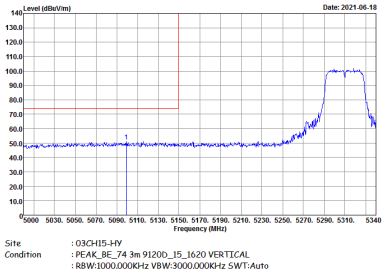
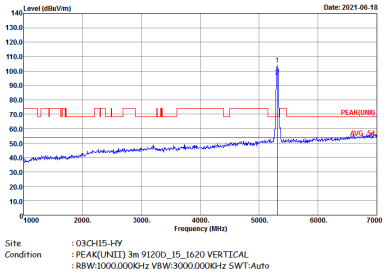
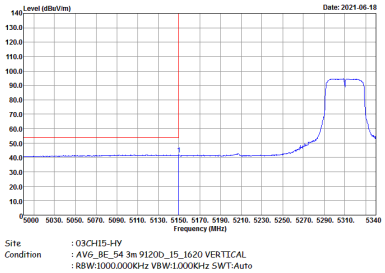
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

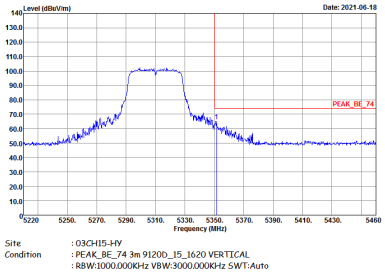
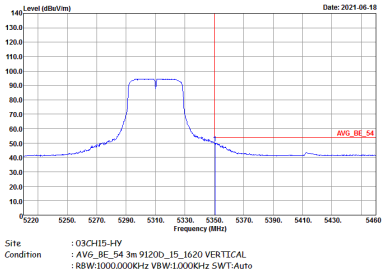
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

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

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

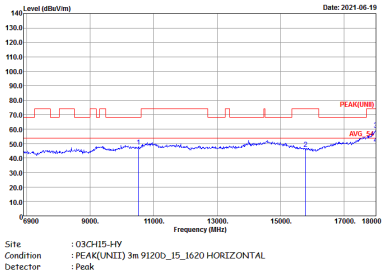
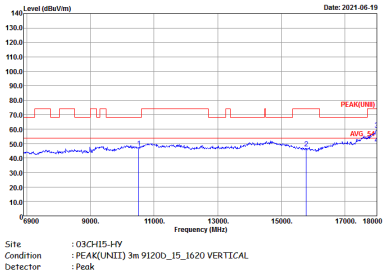
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

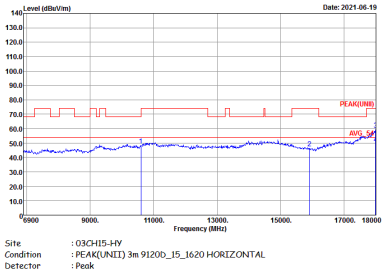
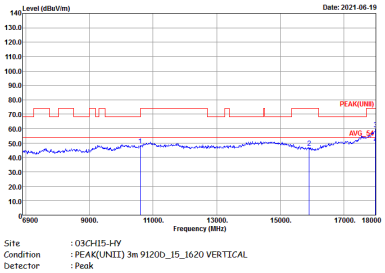
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

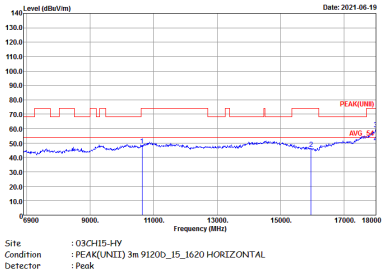
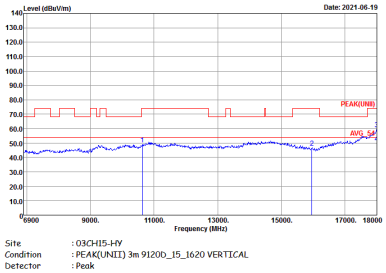
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

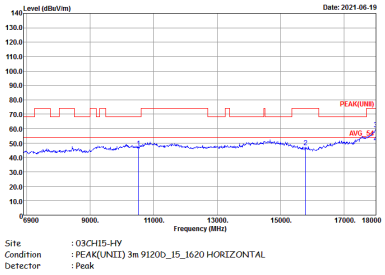
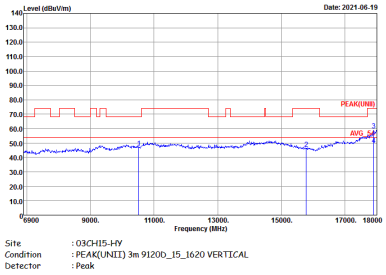
WIFI 802.11a (Harmonic @ 3m)

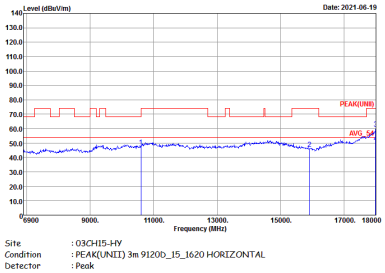
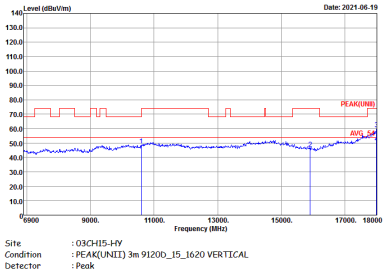
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

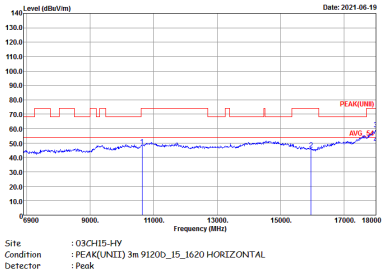
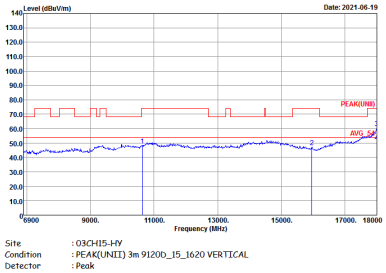
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

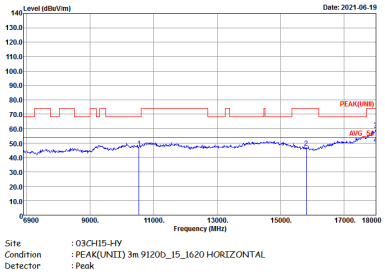
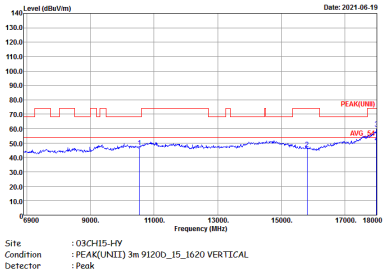
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

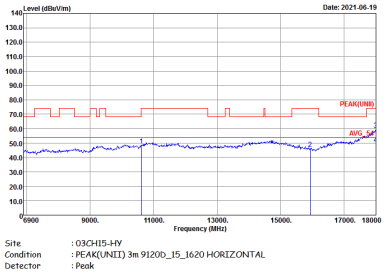
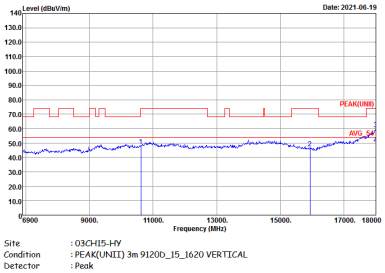
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

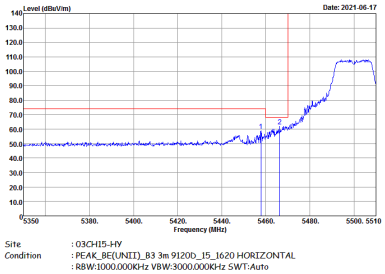
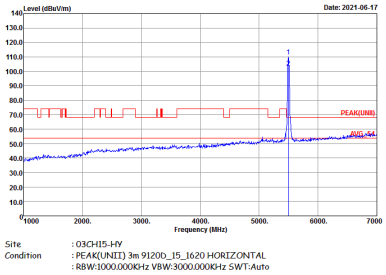
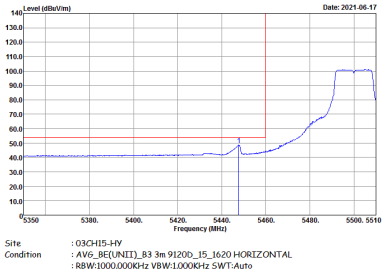
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

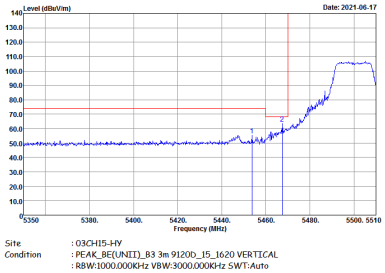
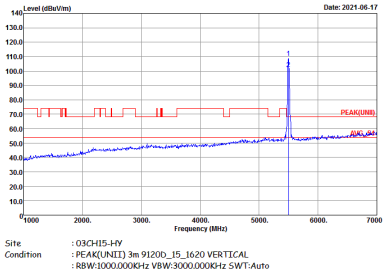
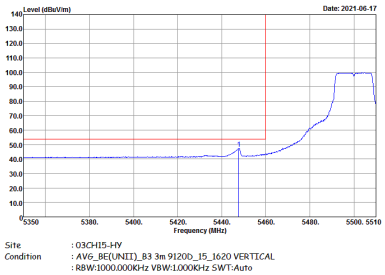
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1	Horizontal	Vertical
Peak Avg.		

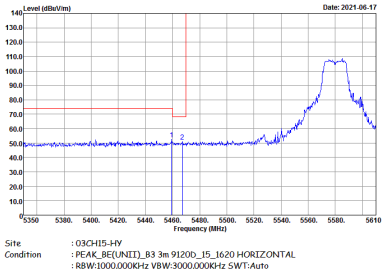
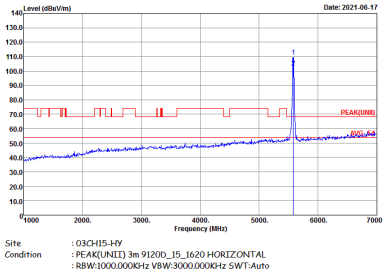
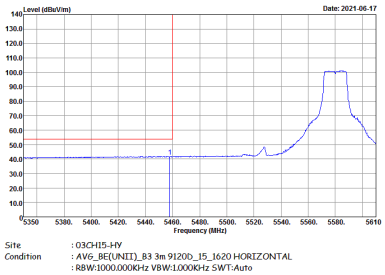
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

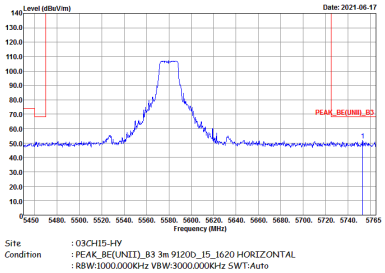
Band 3 - 5470~5725MHz

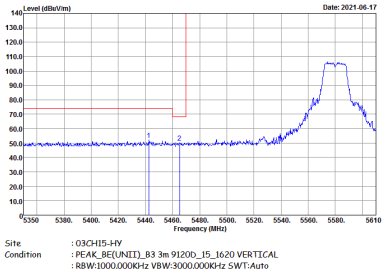
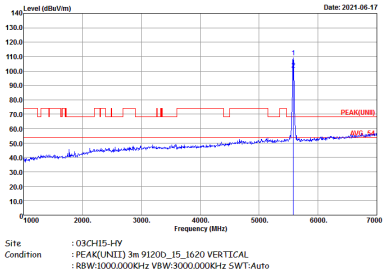
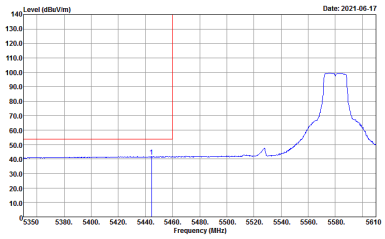
WIFI 802.11a (Band Edge @ 3m)

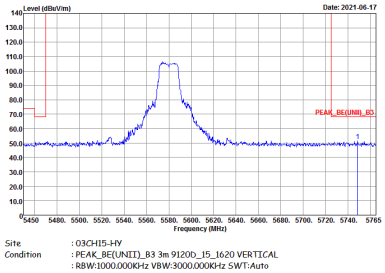
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

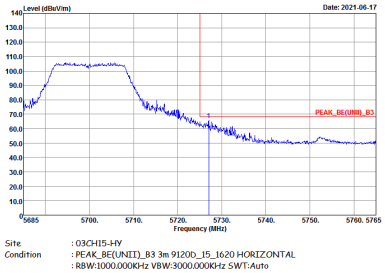
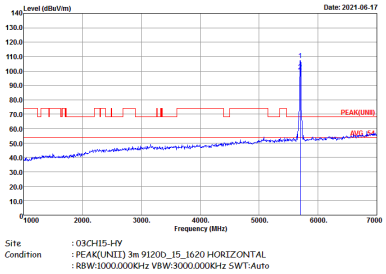
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

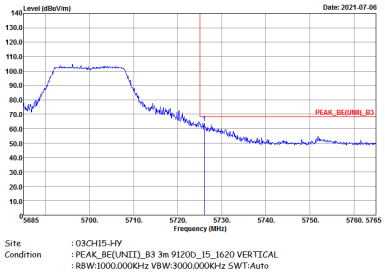
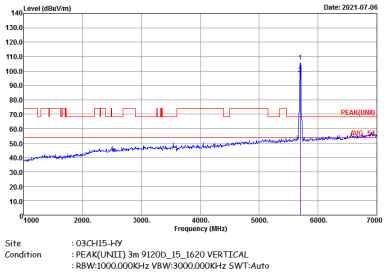
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE(UNII)_B3 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

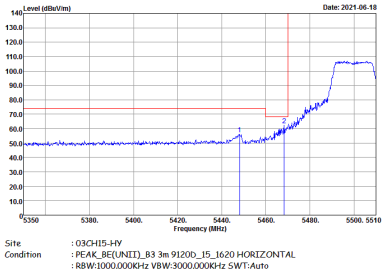
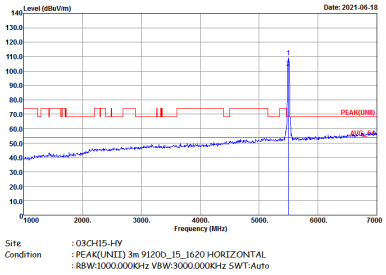
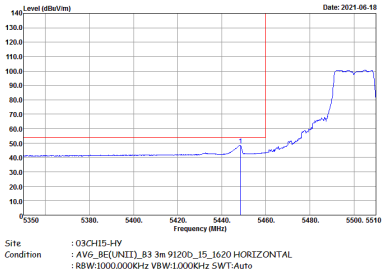
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

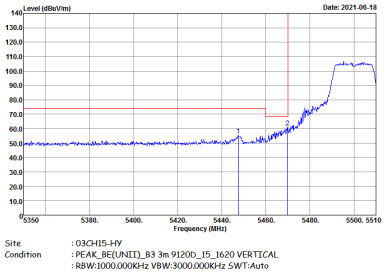
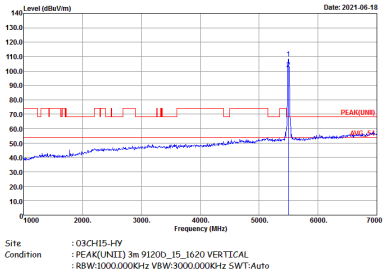
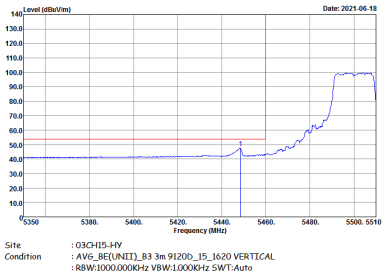
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

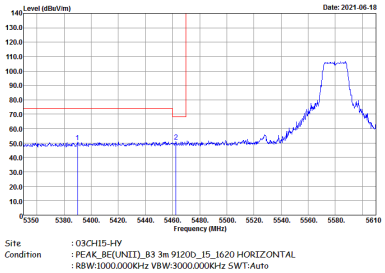
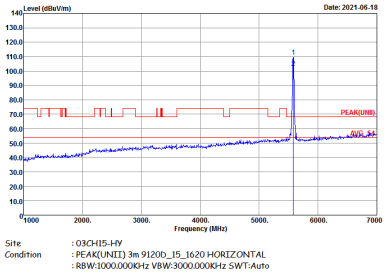
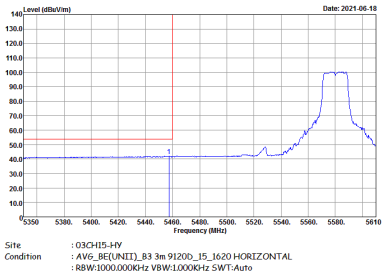
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

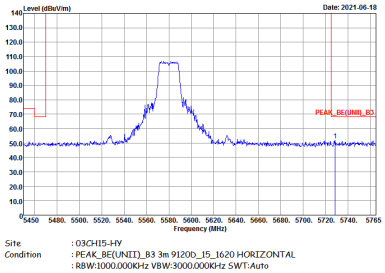
Band 3 5470~5725MHz

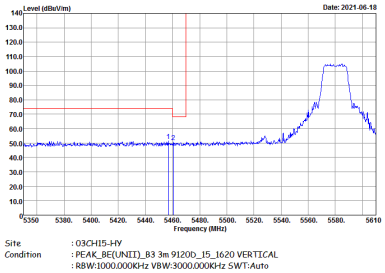
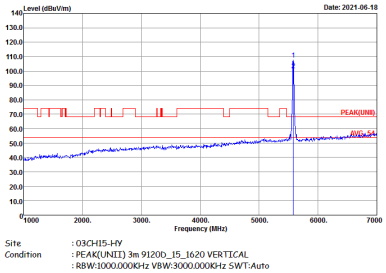
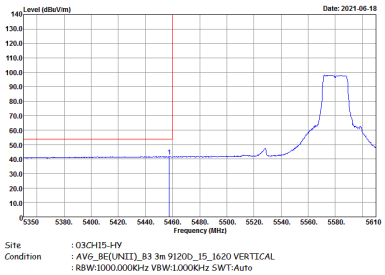
WIFI 802.11n HT20 (Band Edge @ 3m)

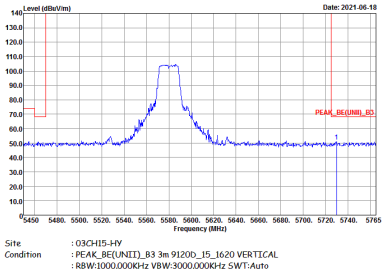
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

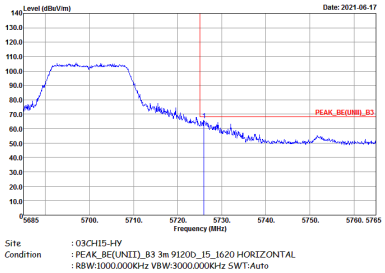
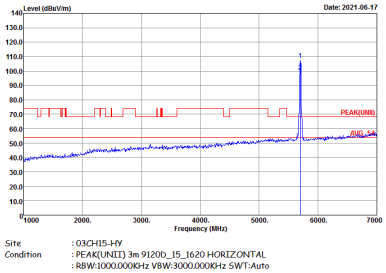
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

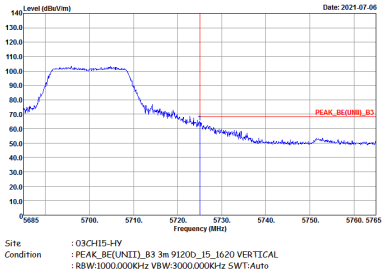
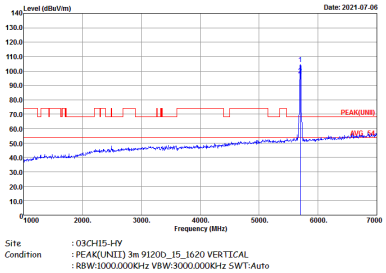
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

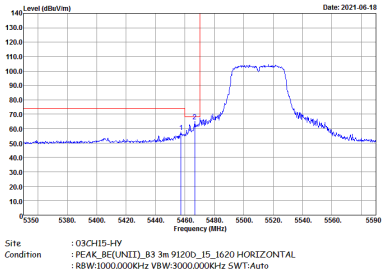
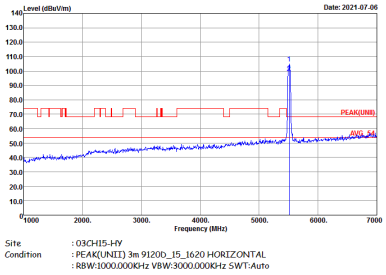
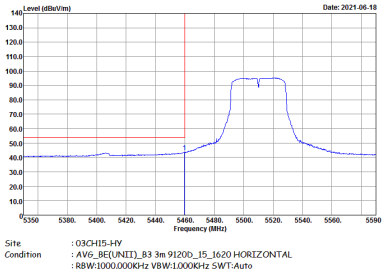
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

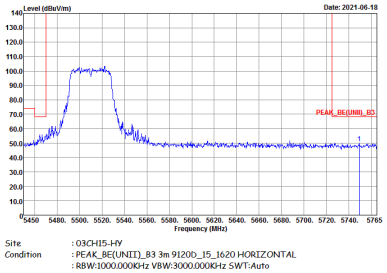
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

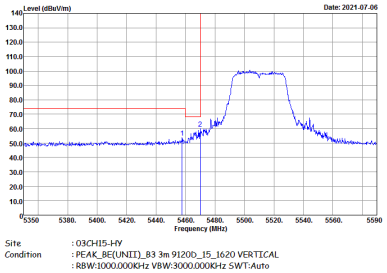
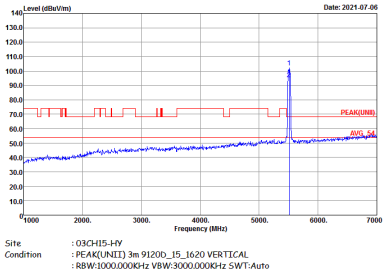
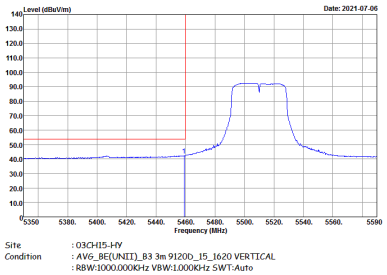
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

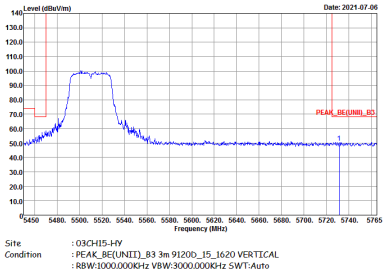
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

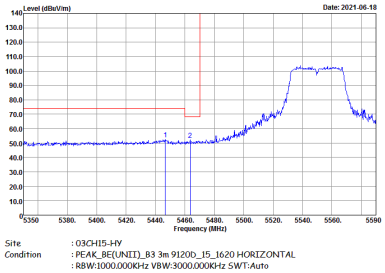
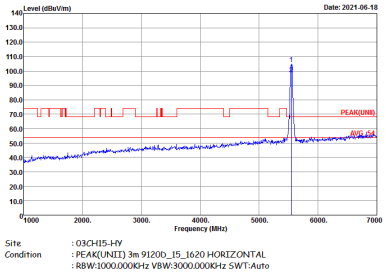
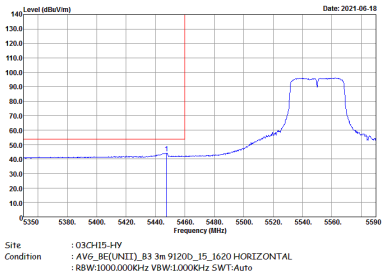
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

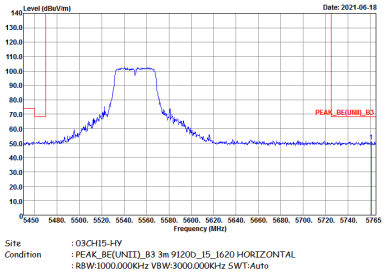
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

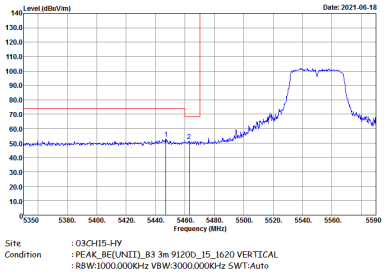
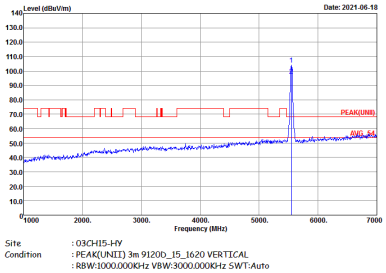
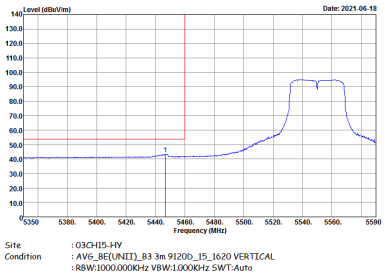
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

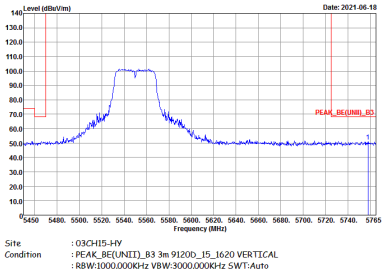
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

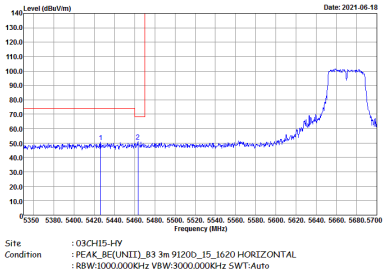
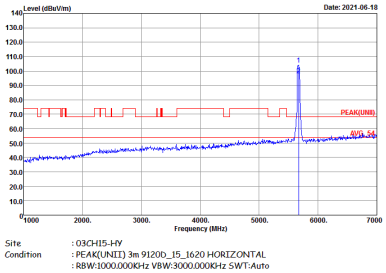
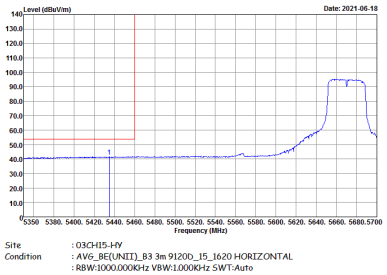
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

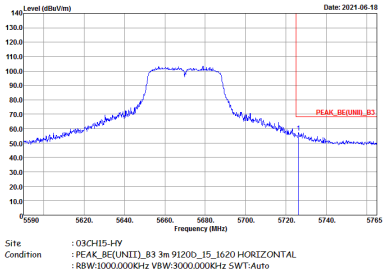
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

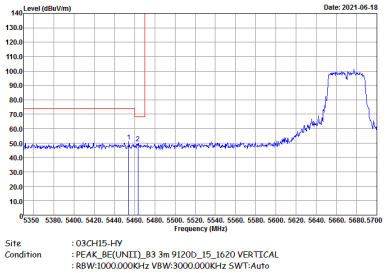
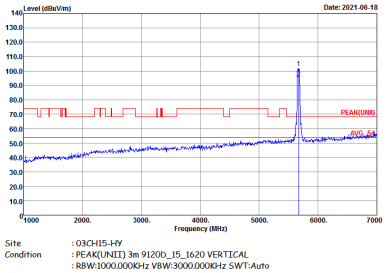
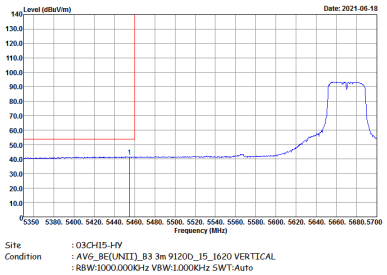
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

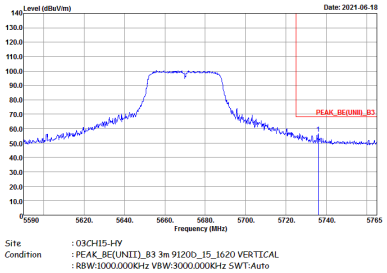
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

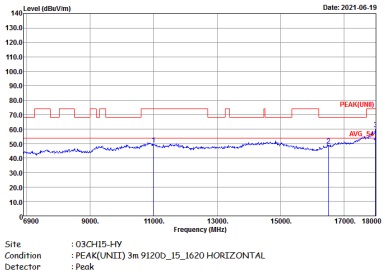
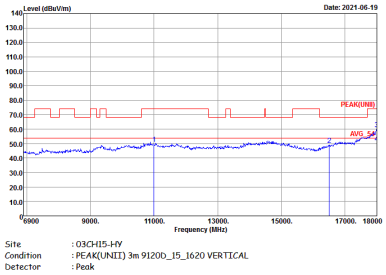
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

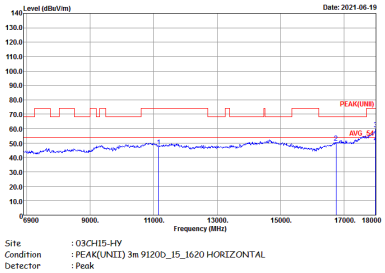
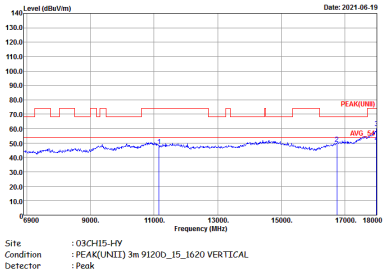
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

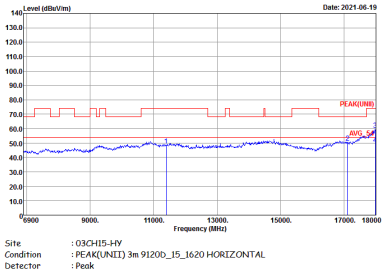
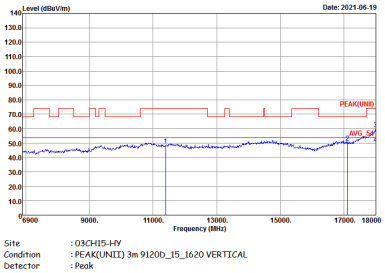
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

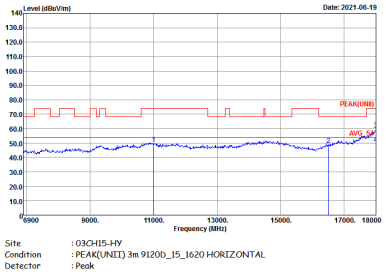
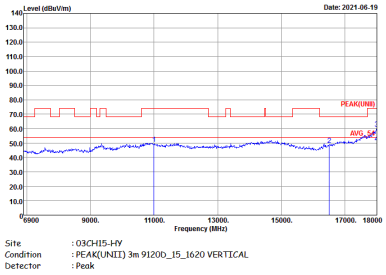
WIFI 802.11a (Harmonic @ 3m)

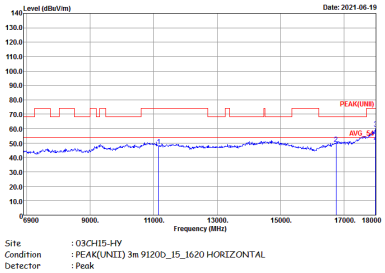
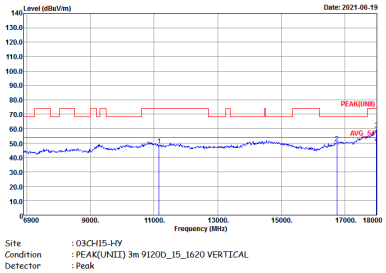
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

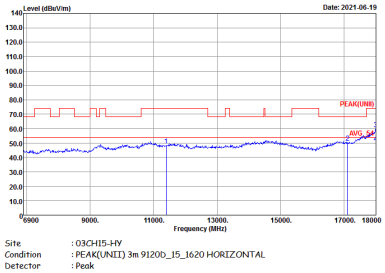
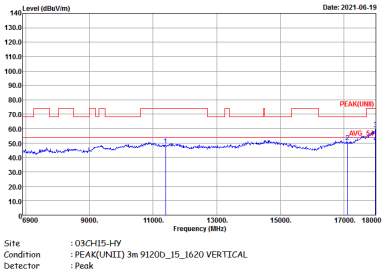
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

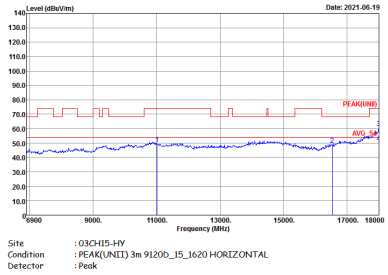
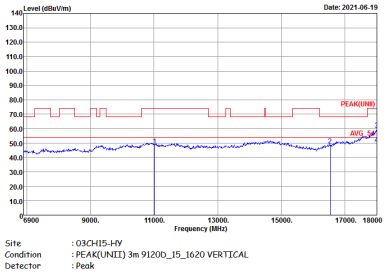
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

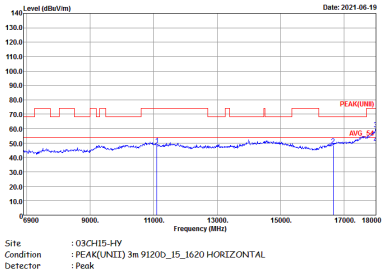
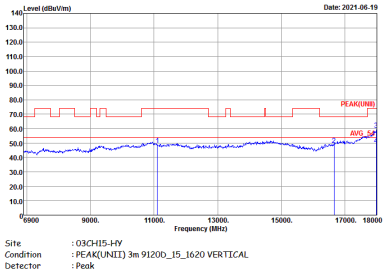
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

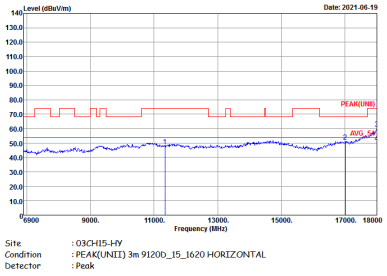
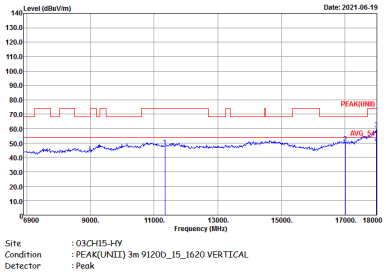
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

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

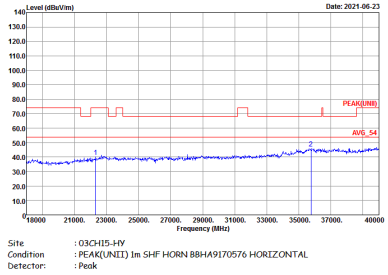
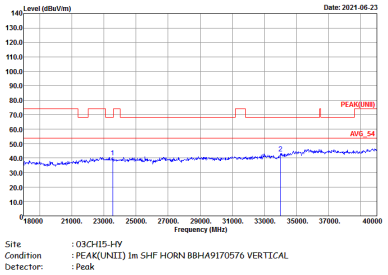
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

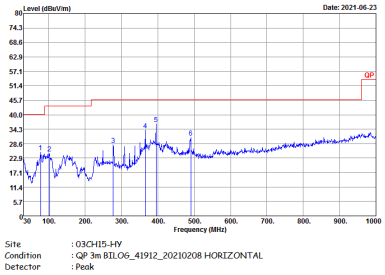
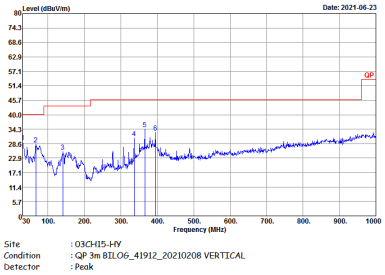
Emission above 18GHz

5GHz WIFI 802.11a (SHF)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
1	Horizontal	Vertical
QP / Peak		

Emission below 1GHz

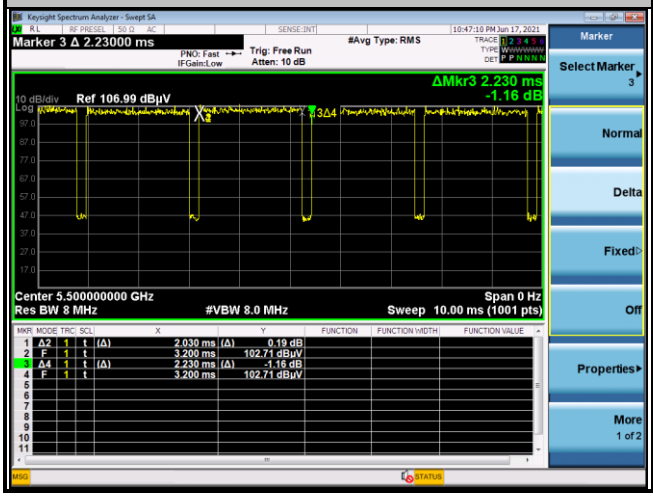
5GHz WIFI 802.11a (LF)

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak		

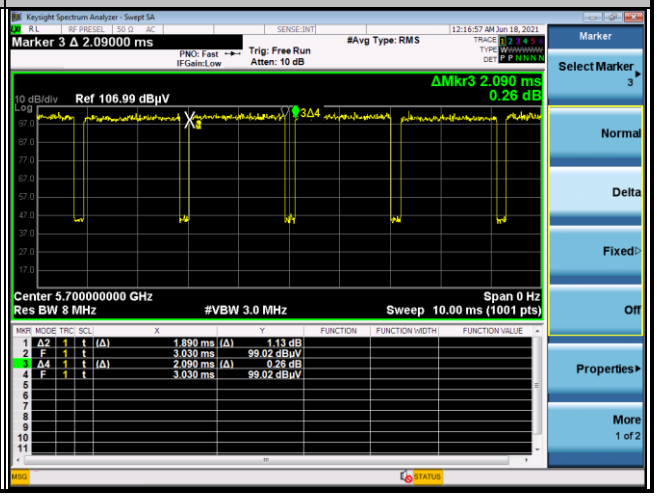
Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	91.03	2030	0.49	1kHz
5GHz 802.11n HT20	90.43	1890	0.53	1kHz
5GHz 802.11n HT40	88.44	1530	0.65	1kHz

802.11a



802.11n HT20



802.11n HT40