



FCC RADIO TEST REPORT

FCC ID : 2AOAG-3668
Equipment : Digital Media Receiver
Model Name : D9N29T
Applicant : Moxham L.L.C.
1320 Main Street Suite 300 Columbia, South Carolina, 29201
Standard : FCC Part 15 Subpart E §15.407

The testing was completed on Jul. 13, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this 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.

Approved by: Jones Tsai

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



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History of this test report

Report No.	Version	Description	Issued Date
FR831509-01E	01	Initial issue of report	Jul. 18, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
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
3.5	15.207	AC Conducted Emission	Pass
3.6	15.407(c)	Automatically Discontinue Transmission	Pass
3.7	15.203 15.407(a)	Antenna Requirement	Pass

Reviewed by: Joseph Lin

Report Producer: Natasha Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	D9N29T
FCC ID	2AOAG-3668
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification								
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz							
Maximum Output Power to Antenna <CDD Modes>	<Ant. 1 > 802.11a : 21.13 dBm / 0.1297 W 802.11n HT20 : 21.14 dBm / 0.1300 W 802.11n HT40 : 18.90 dBm / 0.0776 W 802.11ac VHT20: 21.05 dBm / 0.1274 W 802.11ac VHT40: 18.88 dBm / 0.0773 W 802.11ac VHT80: 13.26 dBm / 0.0212 W <Ant. 2 > 802.11a : 21.38 dBm / 0.1374 W 802.11n HT20 : 21.42 dBm / 0.1387 W 802.11n HT40 : 19.45 dBm / 0.0881 W 802.11ac VHT20: 21.35 dBm / 0.1365 W 802.11ac VHT40: 19.42 dBm / 0.0875 W 802.11ac VHT80: 13.64 dBm / 0.0231 W							
99% Occupied Bandwidth	<Ant. 1> 802.11a : 26.30 MHz 802.11n HT20 : 27.65 MHz 802.11n HT40 : 39.20 MHz 802.11ac VHT80: 77.04 MHz <Ant. 2> 802.11a : 26.45 MHz 802.11n HT20 : 27.05 MHz 802.11n HT40 : 38.10 MHz 802.11ac VHT80: 77.28 MHz							
Antenna Type / Gain	Ant. 1 : Fixed internal Antenna with gain 4.40 dBi Ant. 2 : Fixed internal Antenna with gain 4.80 dBi							
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)							
Antenna Function Description	<table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr></table>			Ant. 1	Ant. 2	802.11 a/n/ac	V	V
	Ant. 1	Ant. 2						
802.11 a/n/ac	V	V						



1.3 Modification of EUT

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

1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
	TH05-HY	CO05-HY	03CH07-HY

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

1.5 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.
- ♦ ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

Note:

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

2.2 Test Mode

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

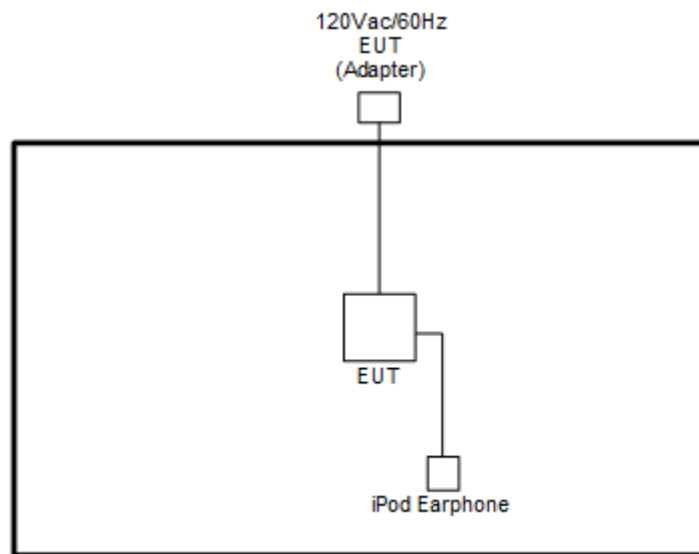
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5Hz) Link + Play News + Charging from Adapter + Speaker

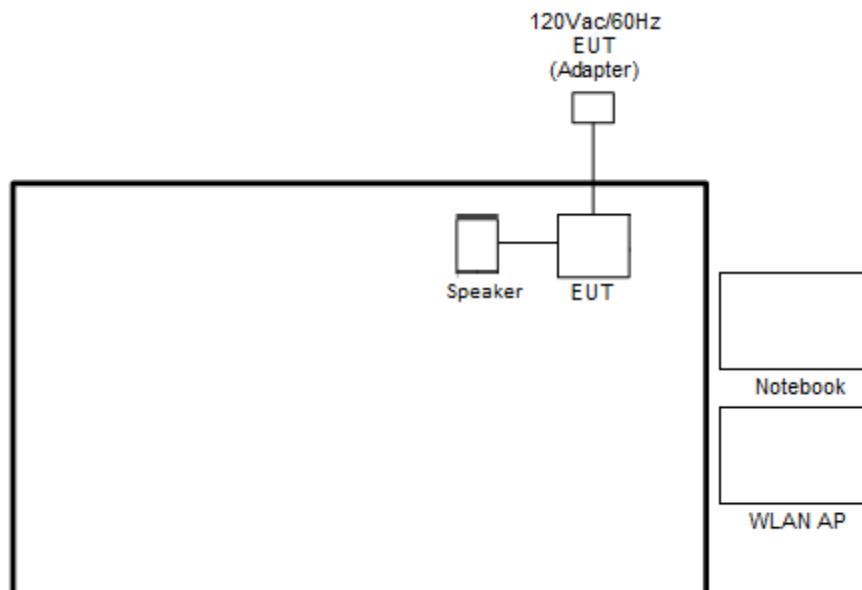
Ch. #		Band I : 5150-5250 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	36	36	38	-
M	Middle	44	44	-	42
H	High	48	48	46	-

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode for Notebook Playing News>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
4.	Speaker	JAWBONE	JAMBOX	V3J-JBE	Shielded, 0.5m	N/A

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

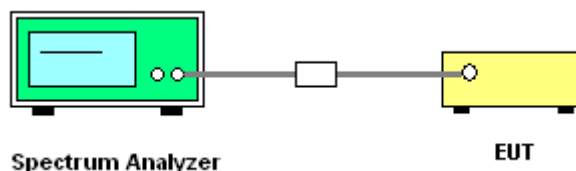
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

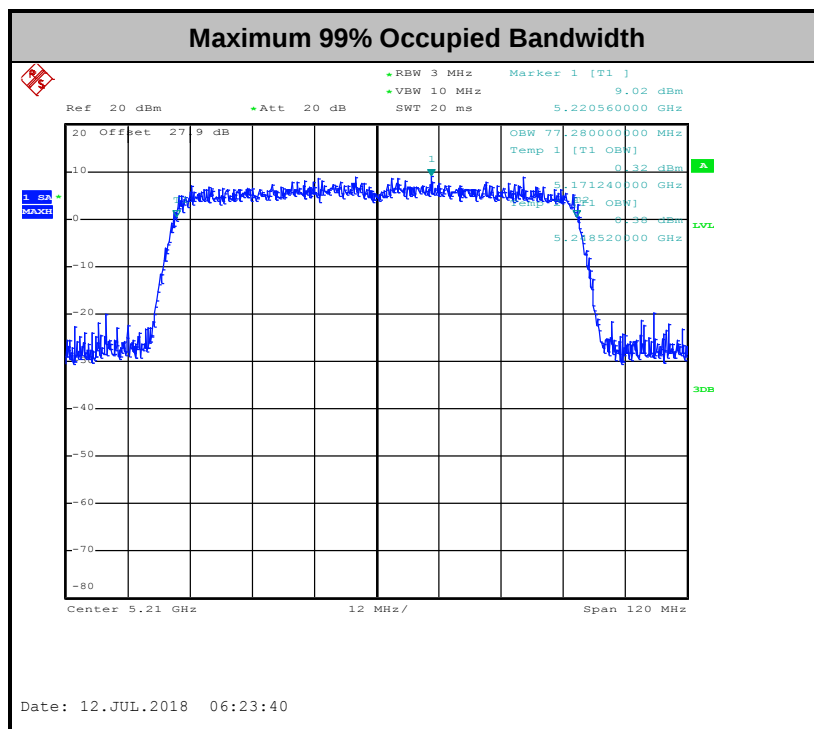
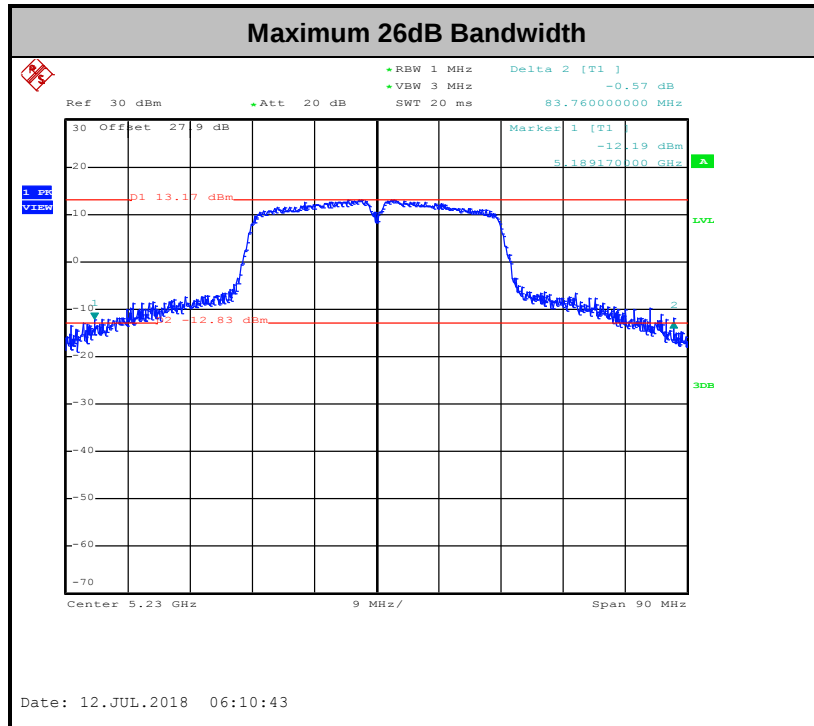
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For 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.

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.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

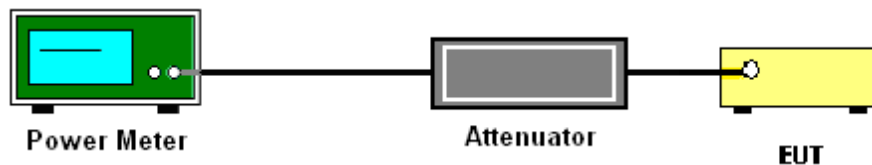
3.2.3 Test Procedures

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.

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.

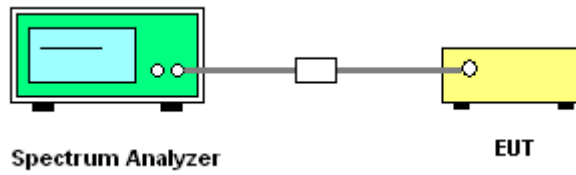
Section F) Maximum power spectral density.

Method SA-2

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

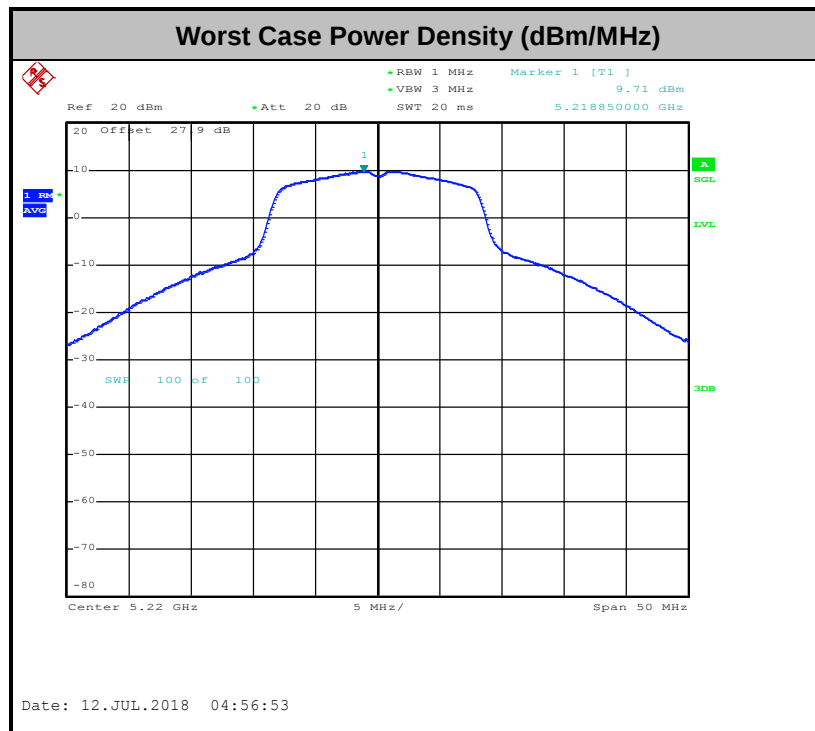
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
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.



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

3.4.2 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 1000MHz

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

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

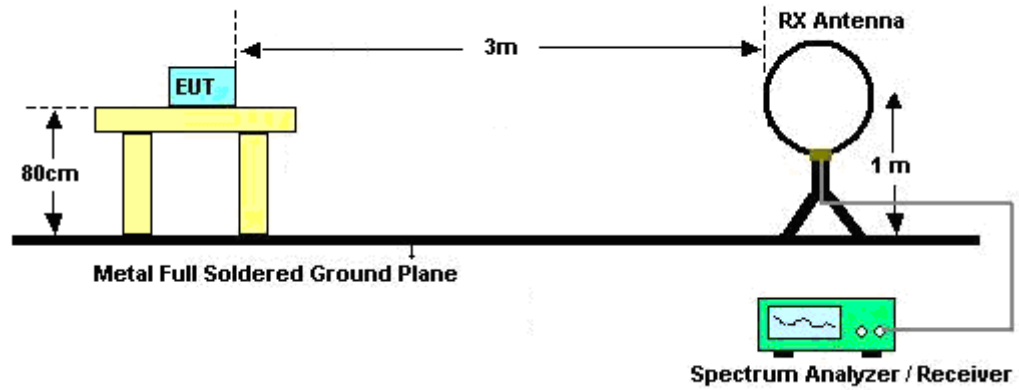
- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

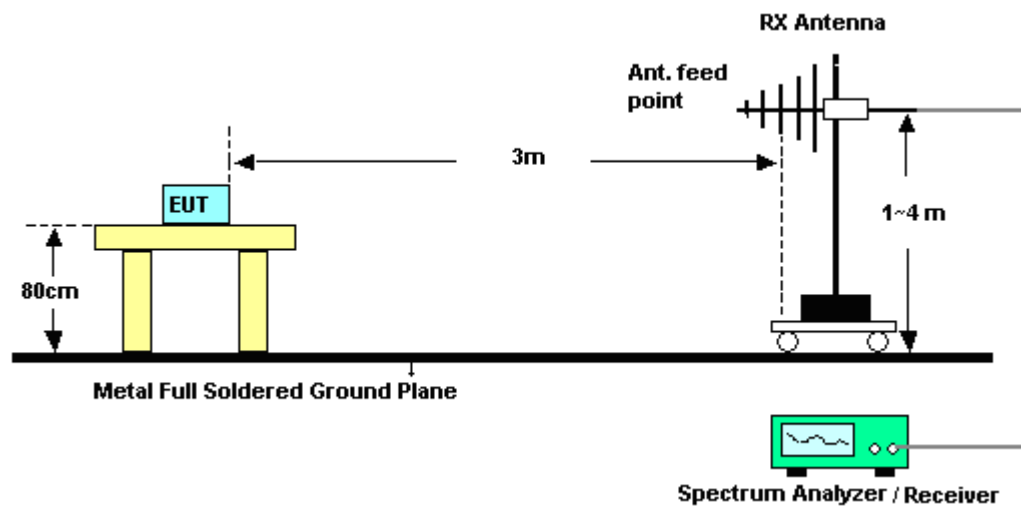
- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2.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

3.4.4 Test Setup

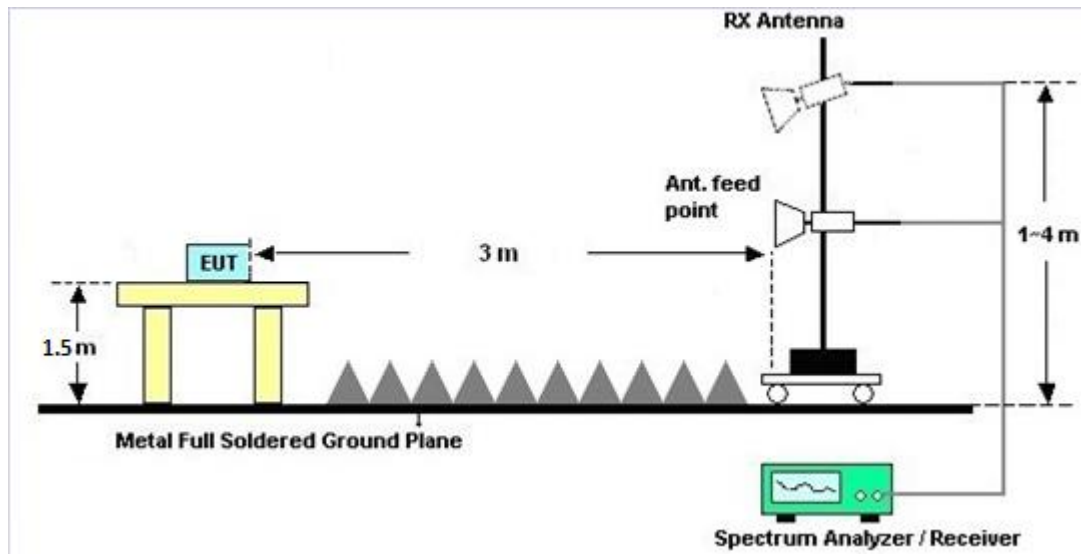
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

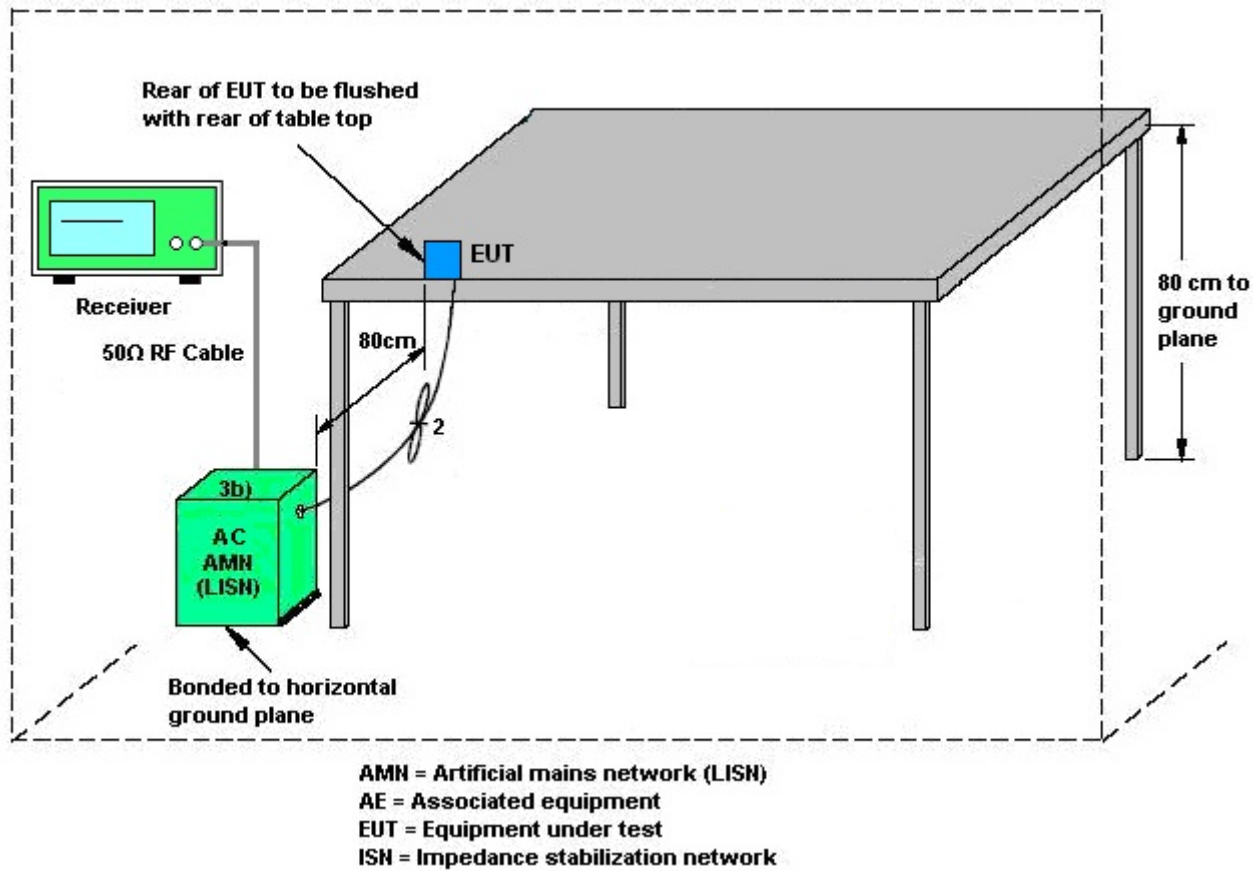
3.5.2 Measuring Instruments

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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



5180MHz



Note : The control / signalling information during the period B is precluded.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jul. 05, 2018 ~ Jul. 13, 2018	Feb. 28, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 08, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Aug. 07, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 25, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 25, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 25, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 25, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 25, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 25, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D&0080 0N1D01N-06	35419&03	30MHz to 1GHz	Dec. 18, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Dec. 17, 2018	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 23, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Aug. 22, 2018	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 10, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz ~ 18GHz	Apr. 25, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Apr. 24, 2019	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 21, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	May 20, 2019	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 30, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Oct. 29, 2018	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 17, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Apr. 16, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9KHz~30MHz	Jan. 02, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Jan. 01, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 27, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 27, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jul. 06, 2018 ~ Jul. 12, 2018	N/A	Radiation (03CH07-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jul. 06, 2018 ~ Jul. 12, 2018	N/A	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Jul. 17, 2018	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jul. 06, 2018 ~ Jul. 12, 2018	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA91702 51	18GHz- 40GHz	Nov. 10, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SF102/2*11 SK252	MY4278/2	9kHz~40GHz	May 17, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	May 16, 2019	Radiation (03CH07-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Dec. 07, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Dec. 06, 2018	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Nov. 21, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Nov. 20, 2018	Radiation (03CH07-HY)
Filter	Microwave	WHKX7.0/26 .5G-6SS	SN4	7G High Pass	Nov. 21, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Nov. 20, 2018	Radiation (03CH07-HY)
Filter	Wainwright	WLKS1200- 8SS	SN3	1.2G Low Pass	Nov. 21, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Nov. 20, 2018	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/07/05 ~ 2018/07/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	17.05	17.30	34.46	36.50	-		22.32	22.38	
11a	6Mbps	1	44	5220	26.30	26.45	45.90	44.60	-		23.01	23.01	
11a	6Mbps	1	48	5240	19.60	19.60	40.60	39.40	-		22.92	22.92	
HT20	MCS0	1	36	5180	17.90	17.95	36.56	37.80	-		22.53	22.54	
HT20	MCS0	1	44	5220	27.65	27.05	48.42	47.89	-		23.01	23.01	
HT20	MCS0	1	48	5240	19.45	19.05	41.00	40.40	-		22.89	22.80	
HT40	MCS0	1	38	5190	36.70	36.60	44.37	41.81	-		23.01	23.01	
HT40	MCS0	1	46	5230	39.20	38.10	82.80	83.76	-		23.01	23.01	
VHT80	MCS0	1	42	5210	77.04	77.28	81.60	81.72	-		23.01	23.01	

TEST RESULTS DATA
Average Power Table

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.00	0.00	17.55	17.96		24.00	24.00	4.40	4.80	Pass
11a	6Mbps	1	44	5220	0.00	0.00	21.13	21.38		24.00	24.00	4.40	4.80	Pass
11a	6Mbps	1	48	5240	0.00	0.00	18.97	19.50		24.00	24.00	4.40	4.80	Pass
HT20	MCS0	1	36	5180	0.00	0.00	17.50	17.74		24.00	24.00	4.40	4.80	Pass
HT20	MCS0	1	44	5220	0.00	0.00	21.14	21.42		24.00	24.00	4.40	4.80	Pass
HT20	MCS0	1	48	5240	0.00	0.00	18.57	19.04		24.00	24.00	4.40	4.80	Pass
HT40	MCS0	1	38	5190	0.00	0.00	14.10	13.82		24.00	24.00	4.40	4.80	Pass
HT40	MCS0	1	46	5230	0.00	0.00	18.90	19.45		24.00	24.00	4.40	4.80	Pass
VHT20	MCS0	1	36	5180	0.00	0.00	17.41	18.91		24.00	24.00	4.40	4.80	Pass
VHT20	MCS0	1	44	5220	0.00	0.00	21.05	21.35		24.00	24.00	4.40	4.80	Pass
VHT20	MCS0	1	48	5240	0.00	0.00	18.51	18.93		24.00	24.00	4.40	4.80	Pass
VHT40	MCS0	1	38	5190	0.00	0.00	14.08	13.78		24.00	24.00	4.40	4.80	Pass
VHT40	MCS0	1	46	5230	0.00	0.00	18.88	19.42		24.00	24.00	4.40	4.80	Pass
VHT80	MCS0	1	42	5210	0.00	0.00	13.26	13.64		24.00	24.00	4.40	4.80	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.00	0.00	5.90	6.24		11.00	11.00	4.40	4.80	Pass
11a	6Mbps	1	44	5220	0.00	0.00	9.45	9.71		11.00	11.00	4.40	4.80	Pass
11a	6Mbps	1	48	5240	0.00	0.00	7.83	8.23		11.00	11.00	4.40	4.80	Pass
HT20	MCS0	1	36	5180	0.00	0.00	5.37	5.68		11.00	11.00	4.40	4.80	Pass
HT20	MCS0	1	44	5220	0.00	0.00	9.16	9.44		11.00	11.00	4.40	4.80	Pass
HT20	MCS0	1	48	5240	0.00	0.00	7.07	7.60		11.00	11.00	4.40	4.80	Pass
HT40	MCS0	1	38	5190	0.00	0.00	-0.87	-1.27		11.00	11.00	4.40	4.80	Pass
HT40	MCS0	1	46	5230	0.00	0.00	3.97	4.34		11.00	11.00	4.40	4.80	Pass
VHT80	MCS0	1	42	5210	0.00	0.00	-5.12	-4.78		11.00	11.00	4.40	4.80	Pass



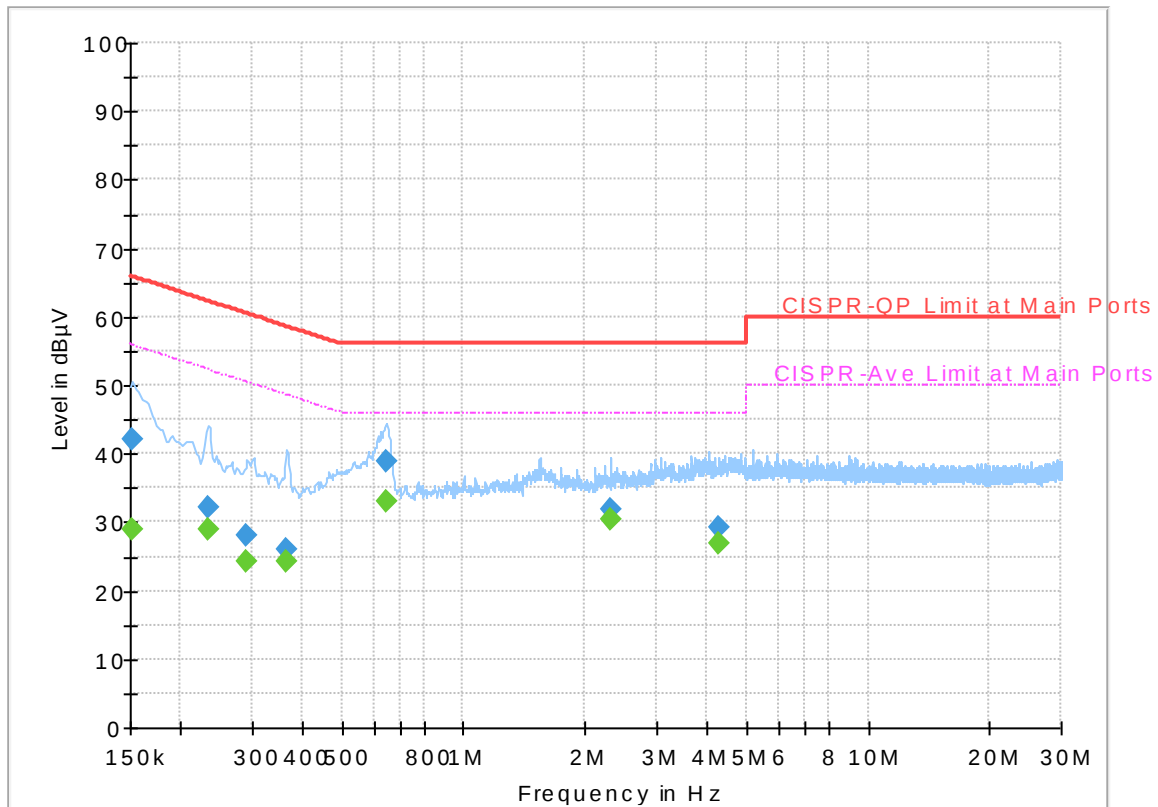
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	Temperature :	21~25℃
		Relative Humidity :	51~55%

EUT Information

Report NO : 831509-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



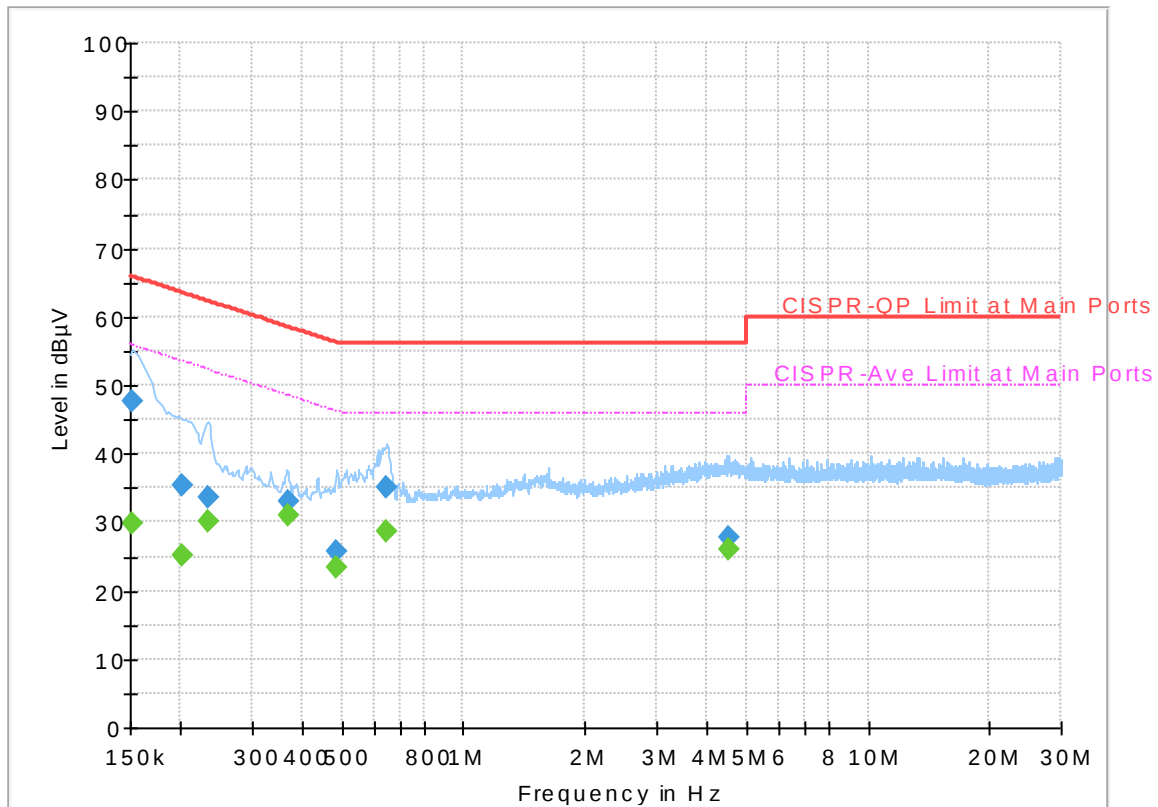
Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.05	55.88	26.83	L1	OFF	19.5
0.152250	42.25	---	65.88	23.63	L1	OFF	19.5
0.233250	---	28.91	52.33	23.42	L1	OFF	19.5
0.233250	32.11	---	62.33	30.22	L1	OFF	19.5
0.291750	---	24.15	50.47	26.32	L1	OFF	19.5
0.291750	28.18	---	60.47	32.29	L1	OFF	19.5
0.366000	---	24.20	48.59	24.39	L1	OFF	19.5
0.366000	26.05	---	58.59	32.54	L1	OFF	19.5
0.647250	---	33.10	46.00	12.90	L1	OFF	19.6
0.647250	38.88	---	56.00	17.12	L1	OFF	19.6
2.314500	---	30.50	46.00	15.50	L1	OFF	19.5
2.314500	31.90	---	56.00	24.10	L1	OFF	19.5
4.290000	---	26.86	46.00	19.14	L1	OFF	19.7
4.290000	29.24	---	56.00	26.76	L1	OFF	19.7

EUT Information

Report NO : 831509-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.85	55.88	26.03	N	OFF	19.5
0.152250	47.52	---	65.88	18.36	N	OFF	19.5
0.201750	---	25.27	53.54	28.27	N	OFF	19.5
0.201750	35.33	---	63.54	28.21	N	OFF	19.5
0.233250	---	30.19	52.33	22.14	N	OFF	19.5
0.233250	33.70	---	62.33	28.63	N	OFF	19.5
0.368250	---	30.90	48.54	17.64	N	OFF	19.5
0.368250	33.09	---	58.54	25.45	N	OFF	19.5
0.487500	---	23.37	46.21	22.84	N	OFF	19.5
0.487500	25.78	---	56.21	30.43	N	OFF	19.5
0.645000	---	28.57	46.00	17.43	N	OFF	19.6
0.645000	35.13	---	56.00	20.87	N	OFF	19.6
4.517250	---	26.01	46.00	19.99	N	OFF	19.7
4.517250	27.90	---	56.00	28.10	N	OFF	19.7



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	53~56%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	63.66	-10.34	74	53.36	34.41	11.03	35.14	106	243	P	H
		5150	53.28	-0.72	54	42.98	34.41	11.03	35.14	106	243	A	H
	*	5180	112.97	-	-	102.62	34.46	11.03	35.14	106	243	P	H
	*	5180	105.17	-	-	94.82	34.46	11.03	35.14	106	243	A	H
		5149.76	63.28	-10.72	74	52.98	34.41	11.03	35.14	319	57	P	V
		5150	53.26	-0.74	54	42.96	34.41	11.03	35.14	319	57	A	V
	*	5180	112.75	-	-	102.4	34.46	11.03	35.14	319	57	P	V
	*	5180	104.79	-	-	94.44	34.46	11.03	35.14	319	57	A	V
802.11a CH 44 5220MHz		5142.74	58.32	-15.68	74	48.02	34.41	11.03	35.14	217	257	P	H
		5150	46.68	-7.32	54	36.38	34.41	11.03	35.14	217	257	A	H
	*	5220	116.81	-	-	106.35	34.5	11.1	35.14	217	257	P	H
	*	5220	108.73	-	-	98.27	34.5	11.1	35.14	217	257	A	H
		5391.96	50.46	-23.54	74	39.72	34.74	11.15	35.15	217	257	P	H
		5350.24	40.61	-13.39	54	29.93	34.69	11.14	35.15	217	257	A	H
		5149.76	57.97	-16.03	74	47.67	34.41	11.03	35.14	313	58	P	V
		5150	46.34	-7.66	54	36.04	34.41	11.03	35.14	313	58	A	V
	*	5220	115.66	-	-	105.2	34.5	11.1	35.14	313	58	P	V
	*	5220	107.48	-	-	97.02	34.5	11.1	35.14	313	58	A	V
		5376.56	50.49	-23.51	74	39.79	34.71	11.14	35.15	313	58	P	V
		5350.52	40.56	-13.44	54	29.88	34.69	11.14	35.15	313	58	A	V



802.11a CH 48 5240MHz		5149.76	54.97	-19.03	74	44.67	34.41	11.03	35.14	226	258	P	H
		5150	42.6	-11.4	54	32.3	34.41	11.03	35.14	226	258	A	H
	*	5240	117.04	-	-	106.54	34.53	11.11	35.14	226	258	P	H
	*	5240	108.93	-	-	98.43	34.53	11.11	35.14	226	258	A	H
		5397.56	51.38	-22.62	74	40.62	34.76	11.15	35.15	226	258	P	H
		5352.2	41.25	-12.75	54	30.57	34.69	11.14	35.15	226	258	A	H
		5149.76	52.56	-21.44	74	42.26	34.41	11.03	35.14	328	47	P	V
		5149.5	42.29	-11.71	54	31.99	34.41	11.03	35.14	328	47	A	V
	*	5240	115.72	-	-	105.22	34.53	11.11	35.14	328	47	P	V
	*	5240	107.52	-	-	97.02	34.53	11.11	35.14	328	47	A	V
		5355	51.24	-22.76	74	40.56	34.69	11.14	35.15	328	47	P	V
		5352.2	41.27	-12.73	54	30.59	34.69	11.14	35.15	328	47	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	47.81	-20.39	68.2	52.95	37.19	17	59.33	100	0	P	H
		15540	49.13	-24.87	74	44.77	40.43	20.52	56.59	100	0	P	H
		10360	50.39	-17.81	68.2	55.53	37.19	17	59.33	100	0	P	V
		15540	49.16	-24.84	74	44.8	40.43	20.52	56.59	100	0	P	V
802.11a CH 44 5220MHz		10440	49.29	-18.91	68.2	54.21	37.25	17.1	59.27	100	0	P	H
		15660	48.88	-25.12	74	44.36	40.52	20.57	56.57	100	0	P	H
		10440	52.8	-15.4	68.2	57.72	37.25	17.1	59.27	100	0	P	V
		15660	49.03	-24.97	74	44.51	40.52	20.57	56.57	100	0	P	V
802.11a CH 48 5240MHz		10480	48.29	-19.91	68.2	53.07	37.29	17.15	59.22	100	0	P	H
		15720	49.19	-24.81	74	44.56	40.58	20.61	56.56	100	0	P	H
		10480	51.27	-16.93	68.2	56.05	37.29	17.15	59.22	100	0	P	V
		15720	49.98	-24.02	74	45.35	40.58	20.61	56.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	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		5148.98	62.47	-11.53	74	52.17	34.41	11.03	35.14	104	243	P	H
		5150	52.39	-1.61	54	42.09	34.41	11.03	35.14	104	243	A	H
	*	5180	112.09	-	-	101.74	34.46	11.03	35.14	104	243	P	H
	*	5180	104.45	-	-	94.1	34.46	11.03	35.14	104	243	A	H
		5143.26	61.06	-12.94	74	50.76	34.41	11.03	35.14	318	57	P	V
		5150	52.09	-1.91	54	41.79	34.41	11.03	35.14	318	57	A	V
	*	5180	112.05	-	-	101.7	34.46	11.03	35.14	318	57	P	V
	*	5180	104.18	-	-	93.83	34.46	11.03	35.14	318	57	A	V
802.11n HT20 CH 44 5220MHz		5145.86	59.43	-14.57	74	49.13	34.41	11.03	35.14	217	257	P	H
		5150	47.28	-6.72	54	36.98	34.41	11.03	35.14	217	257	A	H
	*	5220	116.86	-	-	106.4	34.5	11.1	35.14	217	257	P	H
	*	5220	108.4	-	-	97.94	34.5	11.1	35.14	217	257	A	H
		5352.76	49.88	-24.12	74	39.2	34.69	11.14	35.15	217	257	P	H
		5350	40.66	-13.34	54	29.98	34.69	11.14	35.15	217	257	A	H
		5149.76	57.93	-16.07	74	47.63	34.41	11.03	35.14	313	58	P	V
		5149.76	47.08	-6.92	54	36.78	34.41	11.03	35.14	313	58	A	V
	*	5220	115.38	-	-	104.92	34.5	11.1	35.14	313	58	P	V
	*	5220	107.12	-	-	96.66	34.5	11.1	35.14	313	58	A	V
		5376.84	50.56	-23.44	74	39.86	34.71	11.14	35.15	313	58	P	V
		5351.08	40.57	-13.43	54	29.89	34.69	11.14	35.15	313	58	A	V



802.11n HT20 CH 48 5240MHz		5150	53.98	-20.02	74	43.68	34.41	11.03	35.14	226	258	P	H
		5150	43.15	-10.85	54	32.85	34.41	11.03	35.14	226	258	A	H
	*	5240	116.96	-	-	106.46	34.53	11.11	35.14	226	258	P	H
	*	5240	108.72	-	-	98.22	34.53	11.11	35.14	226	258	A	H
		5353.88	51.96	-22.04	74	41.28	34.69	11.14	35.15	226	258	P	H
		5351.64	41.62	-12.38	54	30.94	34.69	11.14	35.15	226	258	A	H
		5144.82	53.32	-20.68	74	43.02	34.41	11.03	35.14	328	47	P	V
		5150	42.71	-11.29	54	32.41	34.41	11.03	35.14	328	47	A	V
	*	5240	115.81	-	-	105.31	34.53	11.11	35.14	328	47	P	V
	*	5240	107.33	-	-	96.83	34.53	11.11	35.14	328	47	A	V
		5356.4	50.65	-23.35	74	39.97	34.69	11.14	35.15	328	47	P	V
		5351.64	41.57	-12.43	54	30.89	34.69	11.14	35.15	328	47	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	46.38	-21.82	68.2	51.52	37.19	17	59.33	100	0	P	H
		15540	48.17	-25.83	74	43.81	40.43	20.52	56.59	100	0	P	H
		10360	49.17	-19.03	68.2	54.31	37.19	17	59.33	100	0	P	V
		15540	47.94	-26.06	74	43.58	40.43	20.52	56.59	100	0	P	V
802.11n HT20 CH 44 5220MHz		10440	49.77	-18.43	68.2	54.69	37.25	17.1	59.27	100	0	P	H
		15660	49.06	-24.94	74	44.54	40.52	20.57	56.57	100	0	P	H
		10440	52.22	-15.98	68.2	57.14	37.25	17.1	59.27	100	0	P	V
		15660	50	-24	74	45.48	40.52	20.57	56.57	100	0	P	V
802.11n HT20 CH 48 5240MHz		10480	49.02	-19.18	68.2	53.8	37.29	17.15	59.22	100	0	P	H
		15720	48.25	-25.75	74	43.62	40.58	20.61	56.56	100	0	P	H
		10480	51.65	-16.55	68.2	56.43	37.29	17.15	59.22	100	0	P	V
		15720	49.91	-24.09	74	45.28	40.58	20.61	56.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.5	62.89	-11.11	74	52.59	34.41	11.03	35.14	105	242	P	H
		5150	51.45	-2.55	54	41.15	34.41	11.03	35.14	105	242	A	H
	*	5190	105.86	-	-	95.44	34.46	11.1	35.14	105	242	P	H
	*	5190	97.96	-	-	87.54	34.46	11.1	35.14	105	242	A	H
		5401.48	49.98	-24.02	74	39.23	34.76	11.15	35.16	105	242	P	H
		5352.76	40.17	-13.83	54	29.49	34.69	11.14	35.15	105	242	A	H
		5149.24	62.38	-11.62	74	52.08	34.41	11.03	35.14	318	57	P	V
		5150	51.4	-2.6	54	41.1	34.41	11.03	35.14	318	57	A	V
	*	5190	105.8	-	-	95.38	34.46	11.1	35.14	318	57	P	V
	*	5190	97.62	-	-	87.2	34.46	11.1	35.14	318	57	A	V
		5355.28	50.13	-23.87	74	39.45	34.69	11.14	35.15	318	57	P	V
		5350	40.59	-13.41	54	29.91	34.69	11.14	35.15	318	57	A	V
802.11n HT40 CH 46 5230MHz		5148.46	61.64	-12.36	74	51.34	34.41	11.03	35.14	100	258	P	H
		5150	50.42	-3.58	54	40.12	34.41	11.03	35.14	100	258	A	H
	*	5230	111.13	-	-	100.63	34.53	11.11	35.14	100	258	P	H
	*	5230	102.99	-	-	92.49	34.53	11.11	35.14	100	258	A	H
		5372.08	52.01	-21.99	74	41.31	34.71	11.14	35.15	100	258	P	H
		5350	42.58	-11.42	54	31.9	34.69	11.14	35.15	100	258	A	H
		5150	60.21	-13.79	74	49.91	34.41	11.03	35.14	298	57	P	V
		5150	50.22	-3.78	54	39.92	34.41	11.03	35.14	298	57	A	V
	*	5230	110.55	-	-	100.05	34.53	11.11	35.14	298	57	P	V
	*	5230	102.35	-	-	91.85	34.53	11.11	35.14	298	57	A	V
		5351.92	52.41	-21.59	74	41.73	34.69	11.14	35.15	298	57	P	V
		5350	43	-11	54	32.32	34.69	11.14	35.15	298	57	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	45.64	-22.56	68.2	50.75	37.21	17	59.32	100	0	P	H
		15570	47.88	-26.12	74	43.47	40.46	20.54	56.59	100	0	P	H
		10380	45.33	-22.87	68.2	50.44	37.21	17	59.32	100	0	P	V
		15570	47.74	-26.26	74	43.33	40.46	20.54	56.59	100	0	P	V
802.11n HT40 CH 46 5230MHz		10460	47.04	-21.16	68.2	51.93	37.26	17.1	59.25	100	0	P	H
		15690	48.74	-25.26	74	44.16	40.55	20.59	56.56	100	0	P	H
		10460	47.23	-20.97	68.2	52.12	37.26	17.1	59.25	100	0	P	V
		15690	49.72	-24.28	74	45.14	40.55	20.59	56.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5149.24	64.65	-9.35	74	54.35	34.41	11.03	35.14	229	256	P	H
		5150	51.91	-2.09	54	41.61	34.41	11.03	35.14	229	256	A	H
	*	5210	102.79	-	-	92.33	34.5	11.1	35.14	229	256	P	H
	*	5210	94.11	-	-	83.65	34.5	11.1	35.14	229	256	A	H
		5451.04	49.73	-24.27	74	38.86	34.83	11.2	35.16	229	256	P	H
		5350.24	40.22	-13.78	54	29.54	34.69	11.14	35.15	229	256	A	H
		5146.38	60.24	-13.76	74	49.94	34.41	11.03	35.14	314	52	P	V
		5150	49.5	-4.5	54	39.2	34.41	11.03	35.14	314	52	P	V
	*	5210	100.66	-	-	90.2	34.5	11.1	35.14	314	52	P	V
	*	5210	92.93	-	-	82.47	34.5	11.1	35.14	314	52	A	V
		5361.44	49.75	-24.25	74	39.05	34.71	11.14	35.15	314	52	P	V
		5350.24	39.88	-14.12	54	29.2	34.69	11.14	35.15	314	52	A	V
		10420	44.93	-23.27	68.2	49.93	37.23	17.05	59.28	100	0	P	H
		15630	48.12	-25.88	74	43.61	40.51	20.57	56.57	100	0	P	H
		10420	45.1	-23.1	68.2	50.1	37.23	17.05	59.28	100	0	P	V
		15630	47.78	-26.22	74	43.27	40.51	20.57	56.57	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (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)
802.11a LF		30	29.41	-10.59	40	34.83	24.6	1.33	31.35	100	0	P	H
		134.22	24.64	-18.86	43.5	36.74	17.41	2.01	31.52	-	-	P	H
		207.93	25.34	-18.16	43.5	39.33	15.07	2.38	31.44	-	-	P	H
		575.1	28.87	-17.13	46	30.4	25.52	3.82	30.87	-	-	P	H
		666.1	33.57	-12.43	46	33.85	26.2	4.25	30.73	-	-	P	H
		965.7	32.88	-21.12	54	27.45	30.88	5.06	30.51	-	-	P	H
		30	30.34	-9.66	40	35.76	24.6	1.33	31.35	100	0	P	V
		71.04	22.53	-17.47	40	40	12.42	1.7	31.59	-	-	P	V
		277.32	24.57	-21.43	46	34.19	18.85	2.86	31.33	-	-	P	V
		515.6	29.79	-16.21	46	33.11	23.92	3.72	30.96	-	-	P	V
		624.1	33.45	-12.55	46	34.46	25.64	4.14	30.79	-	-	P	V
		846	34.5	-11.5	46	31.66	28.66	4.74	30.56	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.98	64.27	-9.73	74	53.97	34.41	11.03	35.14	235	108	P	H
		5150	52.47	-1.53	54	42.17	34.41	11.03	35.14	235	108	A	H
	*	5180	114.41	-	-	104.06	34.46	11.03	35.14	235	108	P	H
	*	5180	106.36	-	-	96.01	34.46	11.03	35.14	235	108	A	H
		5149.5	61.19	-12.81	74	50.89	34.41	11.03	35.14	222	330	P	V
		5150	51.85	-2.15	54	41.55	34.41	11.03	35.14	222	330	A	V
	*	5180	112.98	-	-	102.63	34.46	11.03	35.14	222	330	P	V
	*	5180	105.14	-	-	94.79	34.46	11.03	35.14	222	330	A	V
802.11a CH 44 5220MHz		5150	56.81	-17.19	74	46.51	34.41	11.03	35.14	233	111	P	H
		5150	45.02	-8.98	54	34.72	34.41	11.03	35.14	233	111	A	H
	*	5220	117.14	-	-	106.68	34.5	11.1	35.14	233	111	P	H
	*	5220	108.69	-	-	98.23	34.5	11.1	35.14	233	111	A	H
		5350	51.92	-22.08	74	41.24	34.69	11.14	35.15	233	111	P	H
		5350.24	41.51	-12.49	54	30.83	34.69	11.14	35.15	233	111	A	H
		5148.72	60.35	-13.65	74	50.05	34.41	11.03	35.14	234	330	P	V
		5150	45.43	-8.57	54	35.13	34.41	11.03	35.14	234	330	A	V
	*	5220	115.69	-	-	105.23	34.5	11.1	35.14	234	330	P	V
	*	5220	107.33	-	-	96.87	34.5	11.1	35.14	234	330	A	V
		5444.88	49.69	-24.31	74	38.84	34.81	11.2	35.16	234	330	P	V
		5350	39.8	-14.2	54	29.12	34.69	11.14	35.15	234	330	A	V



802.11a CH 48 5240MHz		5148.2	52.84	-21.16	74	42.54	34.41	11.03	35.14	231	110	P	H
		5150	42.02	-11.98	54	31.72	34.41	11.03	35.14	231	110	A	H
	*	5240	117.15	-	-	106.65	34.53	11.11	35.14	231	110	P	H
	*	5240	109.05	-	-	98.55	34.53	11.11	35.14	231	110	A	H
		5351.64	51.97	-22.03	74	41.29	34.69	11.14	35.15	231	110	P	H
		5352.2	42.6	-11.4	54	31.92	34.69	11.14	35.15	231	110	A	H
		5149.76	52.42	-21.58	74	42.12	34.41	11.03	35.14	232	331	P	V
		5150	41.99	-12.01	54	31.69	34.41	11.03	35.14	232	331	A	V
	*	5240	114.96	-	-	104.46	34.53	11.11	35.14	232	331	P	V
	*	5240	106.43	-	-	95.93	34.53	11.11	35.14	232	331	A	V
		5350.8	49.82	-24.18	74	39.14	34.69	11.14	35.15	232	331	P	V
		5352.2	40.26	-13.74	54	29.58	34.69	11.14	35.15	232	331	A	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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	45.75	-22.45	68.2	50.89	37.19	17	59.33	100	0	P	H
		15540	49.03	-24.97	74	44.67	40.43	20.52	56.59	100	0	P	H
		10360	46.63	-21.57	68.2	51.77	37.19	17	59.33	100	0	P	V
		15540	48.21	-25.79	74	43.85	40.43	20.52	56.59	100	0	P	V
802.11a CH 44 5220MHz		10440	46.96	-21.24	68.2	51.88	37.25	17.1	59.27	100	0	P	H
		15660	48.58	-25.42	74	44.06	40.52	20.57	56.57	100	0	P	H
		10440	49.29	-18.91	68.2	54.21	37.25	17.1	59.27	100	0	P	V
		15660	49.12	-24.88	74	44.6	40.52	20.57	56.57	100	0	P	V
802.11a CH 48 5240MHz		10480	47.67	-20.53	68.2	52.45	37.29	17.15	59.22	100	0	P	H
		15720	48.54	-25.46	74	43.91	40.58	20.61	56.56	100	0	P	H
		10480	50.04	-18.16	68.2	54.82	37.29	17.15	59.22	100	0	P	V
		15720	49.72	-24.28	74	45.09	40.58	20.61	56.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5143	62.89	-11.11	74	52.59	34.41	11.03	35.14	235	110	P	H
		5150	53.08	-0.92	54	42.78	34.41	11.03	35.14	235	110	A	H
	*	5180	114.04	-	-	103.69	34.46	11.03	35.14	235	110	P	H
	*	5180	106.28	-	-	95.93	34.46	11.03	35.14	235	110	A	H
		5140.92	63.11	-10.89	74	52.81	34.41	11.03	35.14	222	330	P	V
		5150	52.29	-1.71	54	41.99	34.41	11.03	35.14	222	330	A	V
	*	5180	112.78	-	-	102.43	34.46	11.03	35.14	222	330	P	V
	*	5180	104.76	-	-	94.41	34.46	11.03	35.14	222	330	A	V
802.11n HT20 CH 44 5220MHz		5147.94	57.3	-16.7	74	47	34.41	11.03	35.14	229	109	P	H
		5150	45.53	-8.47	54	35.23	34.41	11.03	35.14	229	109	A	H
	*	5220	117.27	-	-	106.81	34.5	11.1	35.14	229	109	P	H
	*	5220	109.08	-	-	98.62	34.5	11.1	35.14	229	109	A	H
		5369	50.93	-23.07	74	40.23	34.71	11.14	35.15	229	109	P	H
		5350	41.52	-12.48	54	30.84	34.69	11.14	35.15	229	109	A	H
		5149.5	59.71	-14.29	74	49.41	34.41	11.03	35.14	232	330	P	V
		5150	46.1	-7.9	54	35.8	34.41	11.03	35.14	232	330	A	V
	*	5220	115.54	-	-	105.08	34.5	11.1	35.14	232	330	P	V
	*	5220	107.45	-	-	96.99	34.5	11.1	35.14	232	330	A	V
		5433.12	49.06	-24.94	74	38.21	34.81	11.2	35.16	232	330	P	V
		5350	39.85	-14.15	54	29.17	34.69	11.14	35.15	232	330	A	V



802.11n HT20 CH 48 5240MHz		5149.76	52.46	-21.54	74	42.16	34.41	11.03	35.14	231	112	P	H
		5149.76	42.26	-11.74	54	31.96	34.41	11.03	35.14	231	112	A	H
	*	5240	117.01	-	-	106.51	34.53	11.11	35.14	231	112	P	H
	*	5240	108.63	-	-	98.13	34.53	11.11	35.14	231	112	A	H
		5358.08	51.11	-22.89	74	40.43	34.69	11.14	35.15	231	112	P	H
		5351.64	42.83	-11.17	54	32.15	34.69	11.14	35.15	231	112	A	H
		5110.24	52.07	-21.93	74	41.89	34.36	10.96	35.14	236	331	P	V
		5150	42.37	-11.63	54	32.07	34.41	11.03	35.14	236	331	A	V
	*	5240	114.51	-	-	104.01	34.53	11.11	35.14	236	331	P	V
	*	5240	106.25	-	-	95.75	34.53	11.11	35.14	236	331	A	V
		5369.84	49.71	-24.29	74	39.01	34.71	11.14	35.15	236	331	P	V
		5351.36	40.39	-13.61	54	29.71	34.69	11.14	35.15	236	331	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	44.83	-23.37	68.2	49.97	37.19	17	59.33	100	0	P	H
		15540	48.26	-25.74	74	43.9	40.43	20.52	56.59	100	0	P	H
		10360	46.31	-21.89	68.2	51.45	37.19	17	59.33	100	0	P	V
		15540	48.16	-25.84	74	43.8	40.43	20.52	56.59	100	0	P	V
802.11n HT20 CH 44 5220MHz		10440	46.96	-21.24	68.2	51.88	37.25	17.1	59.27	100	0	P	H
		15660	49.34	-24.66	74	44.82	40.52	20.57	56.57	100	0	P	H
		10440	49.43	-18.77	68.2	54.35	37.25	17.1	59.27	100	0	P	V
		15660	50.65	-23.35	74	46.13	40.52	20.57	56.57	100	0	P	V
802.11n HT20 CH 48 5240MHz		10480	46.48	-21.72	68.2	51.26	37.29	17.15	59.22	100	0	P	H
		15720	48.47	-25.53	74	43.84	40.58	20.61	56.56	100	0	P	H
		10480	50.44	-17.76	68.2	55.22	37.29	17.15	59.22	100	0	P	V
		15720	51.01	-22.99	74	46.38	40.58	20.61	56.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5148.2	62.26	-11.74	74	51.96	34.41	11.03	35.14	244	109	P	H
		5150	51.73	-2.27	54	41.43	34.41	11.03	35.14	244	109	A	H
	*	5190	107.22	-	-	96.8	34.46	11.1	35.14	244	109	P	H
	*	5190	98.97	-	-	88.55	34.46	11.1	35.14	244	109	A	H
		5401.2	52.08	-21.92	74	41.33	34.76	11.15	35.16	244	109	P	H
		5354.72	41.41	-12.59	54	30.73	34.69	11.14	35.15	244	109	A	H
		5147.42	64.28	-9.72	74	53.98	34.41	11.03	35.14	220	330	P	V
		5150	50.31	-3.69	54	40.01	34.41	11.03	35.14	220	330	A	V
	*	5190	104.23	-	-	93.81	34.46	11.1	35.14	220	330	P	V
	*	5190	96.66	-	-	86.24	34.46	11.1	35.14	220	330	A	V
		5420.52	48.77	-25.23	74	37.95	34.78	11.2	35.16	220	330	P	V
		5350.52	39.74	-14.26	54	29.06	34.69	11.14	35.15	220	330	A	V
802.11n HT40 CH 46 5230MHz		5146.9	60.55	-13.45	74	50.25	34.41	11.03	35.14	242	108	P	H
		5150	50	-4	54	39.7	34.41	11.03	35.14	242	108	A	H
	*	5230	112.41	-	-	101.91	34.53	11.11	35.14	242	108	P	H
	*	5230	104.37	-	-	93.87	34.53	11.11	35.14	242	108	A	H
		5354.72	52.62	-21.38	74	41.94	34.69	11.14	35.15	242	108	P	H
		5350	43.3	-10.7	54	32.62	34.69	11.14	35.15	242	108	A	H
		5147.94	58.78	-15.22	74	48.48	34.41	11.03	35.14	234	329	P	V
		5150	49.97	-4.03	54	39.67	34.41	11.03	35.14	234	329	A	V
	*	5230	109.49	-	-	98.99	34.53	11.11	35.14	234	329	P	V
	*	5230	101.21	-	-	90.71	34.53	11.11	35.14	234	329	A	V
		5356.12	51.51	-22.49	74	40.83	34.69	11.14	35.15	234	329	P	V
		5350.24	40.76	-13.24	54	30.08	34.69	11.14	35.15	234	329	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	44.99	-23.21	68.2	50.1	37.21	17	59.32	100	0	P	H
		15690	48.63	-25.37	74	44.05	40.55	20.59	56.56	100	0	P	H
		10380	44.87	-23.33	68.2	49.98	37.21	17	59.32	100	0	P	V
		15690	48.44	-25.56	74	43.86	40.55	20.59	56.56	100	0	P	V
802.11n HT40 CH 46 5230MHz		10460	46.01	-22.19	68.2	50.9	37.26	17.1	59.25	100	0	P	H
		15690	48.34	-25.66	74	43.76	40.55	20.59	56.56	100	0	P	H
		10460	45.87	-22.33	68.2	50.76	37.26	17.1	59.25	100	0	P	V
		15690	48.69	-25.31	74	44.11	40.55	20.59	56.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5147.68	67.94	-6.06	74	57.64	34.41	11.03	35.14	231	112	P	H
		5150	53.11	-0.89	54	42.81	34.41	11.03	35.14	231	112	A	H
	*	5210	102.69	-	-	92.23	34.5	11.1	35.14	231	112	P	H
	*	5210	94.05	-	-	83.59	34.5	11.1	35.14	231	112	A	H
		5407.64	50.42	-23.58	74	39.67	34.76	11.15	35.16	231	112	P	H
		5350.8	41.41	-12.59	54	30.73	34.69	11.14	35.15	231	112	A	H
		5148.46	65.19	-8.81	74	54.89	34.41	11.03	35.14	229	331	P	V
		5150	52.49	-1.51	54	42.19	34.41	11.03	35.14	229	331	A	V
	*	5210	101.22	-	-	90.76	34.5	11.1	35.14	229	331	P	V
	*	5210	92.88	-	-	82.42	34.5	11.1	35.14	229	331	A	V
		5420.24	49.95	-24.05	74	39.13	34.78	11.2	35.16	229	331	P	V
		5352.48	39.62	-14.38	54	28.94	34.69	11.14	35.15	229	331	A	V
		10420	45.33	-22.87	68.2	50.33	37.23	17.05	59.28	100	0	P	H
		15630	48.03	-25.97	74	43.52	40.51	20.57	56.57	100	0	P	H
		10420	45.52	-22.68	68.2	50.52	37.23	17.05	59.28	100	0	P	V
		15630	46.83	-27.17	74	42.32	40.51	20.57	56.57	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		153.93	21.55	-21.95	43.5	33.95	16.85	2.25	31.5	-	-	P	H
		188.49	31.11	-12.39	43.5	45.43	14.77	2.37	31.46	-	-	P	H
		208.2	20.84	-22.66	43.5	34.81	15.09	2.38	31.44	-	-	P	H
		448.4	32.38	-13.62	46	37	22.95	3.49	31.06	-	-	P	H
		573	33.66	-12.34	46	35.16	25.56	3.81	30.87	100	0	P	H
		30	29.72	-10.28	40	35.14	24.6	1.33	31.35	100	0	P	V
		125.31	23.59	-19.91	43.5	35.42	17.69	2.01	31.53	-	-	P	V
		244.92	21.08	-24.92	46	32.03	17.8	2.63	31.38	-	-	P	V
		624.1	29.18	-16.82	46	30.19	25.64	4.14	30.79	-	-	P	V
		660.5	35.5	-10.5	46	35.83	26.17	4.24	30.74	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. 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 :	Jesse Wang, Stan Hsieh, and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	53~56%

Note symbol

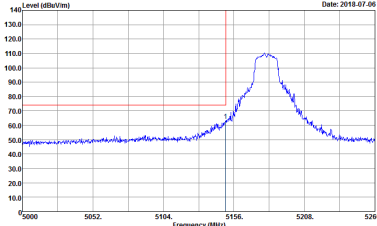
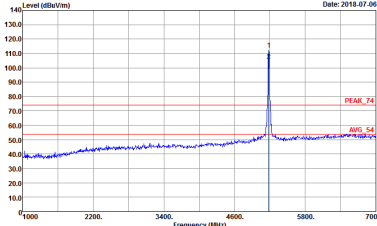
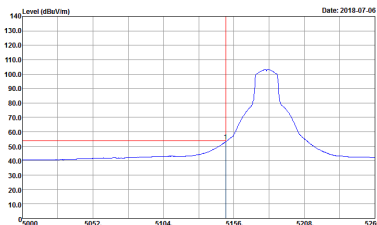
-L	Low channel location
-R	High channel location



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	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SMT:Auto	Left blank

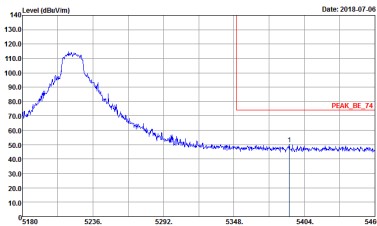
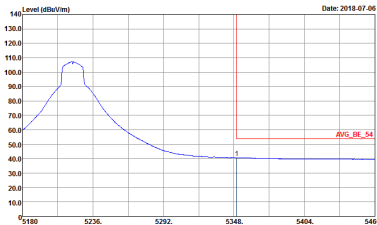


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

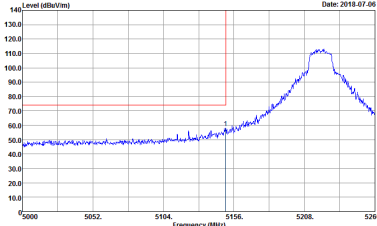
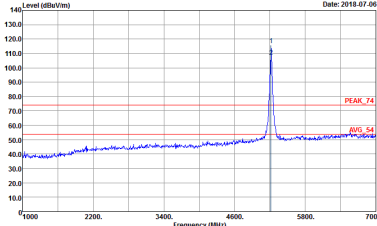
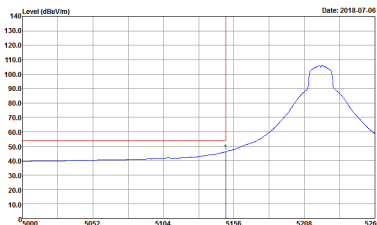


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

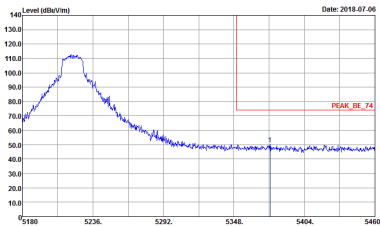
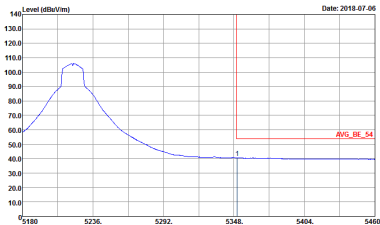


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

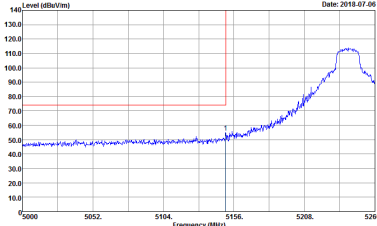
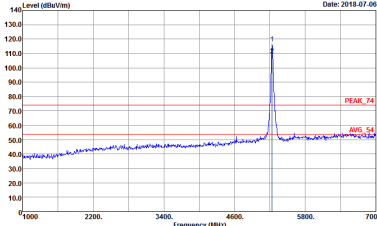
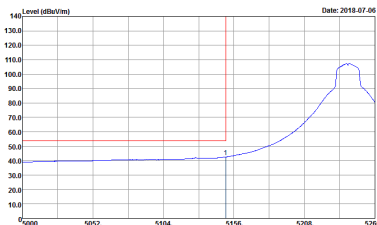


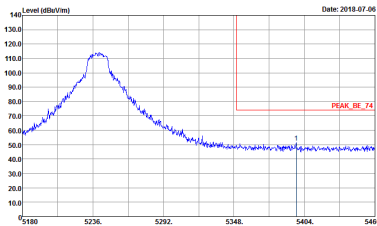
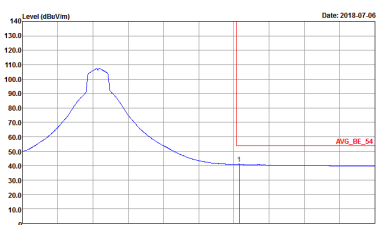
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



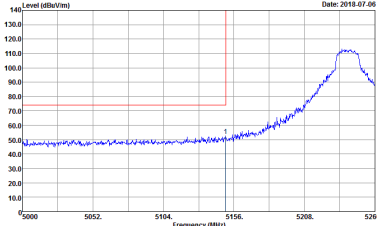
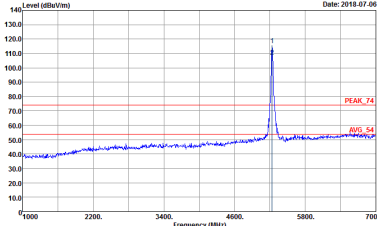
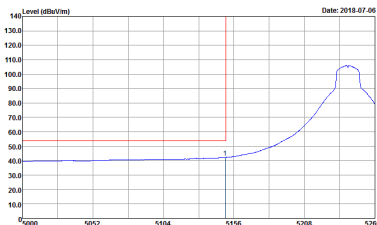
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

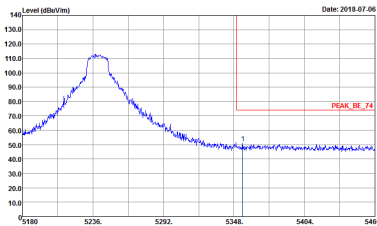
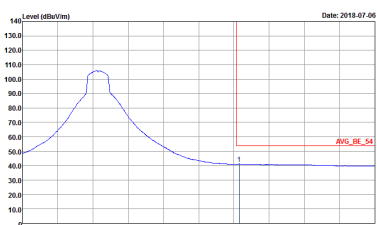


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

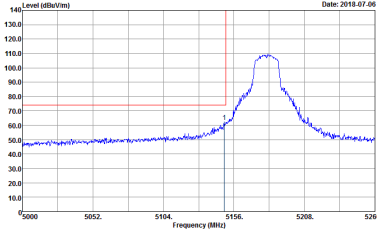
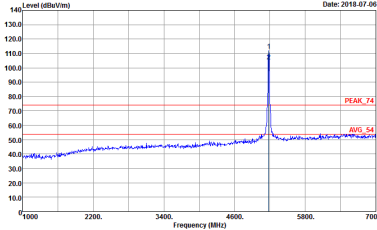
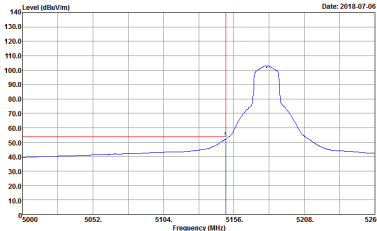


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



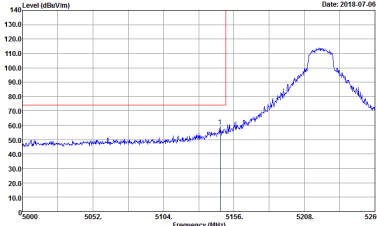
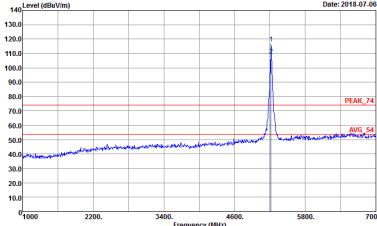
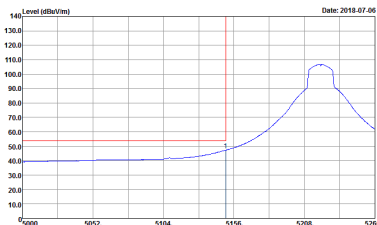
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

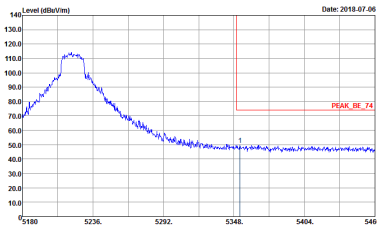
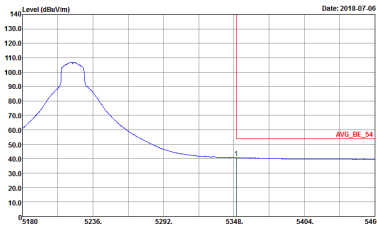


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

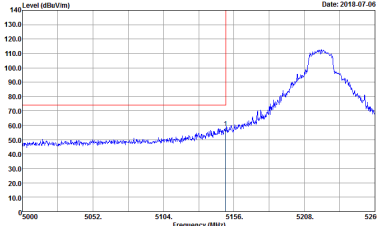
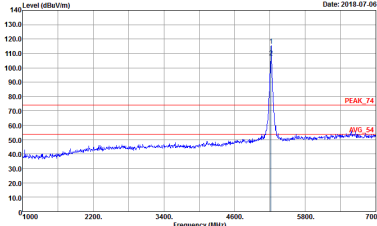
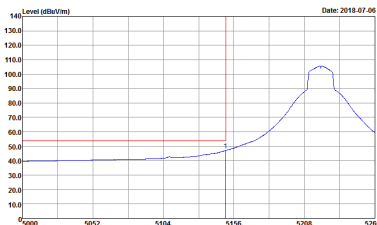


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

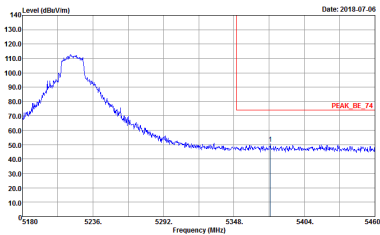
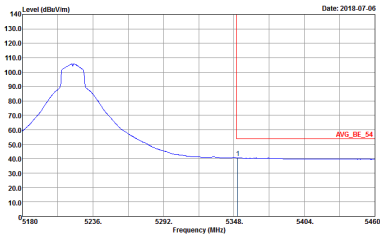


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

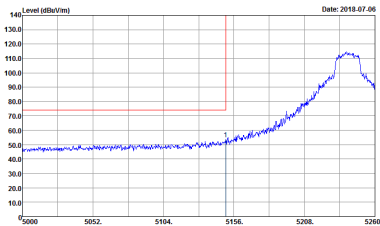
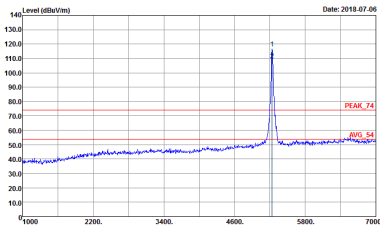
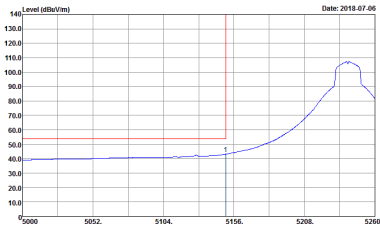


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

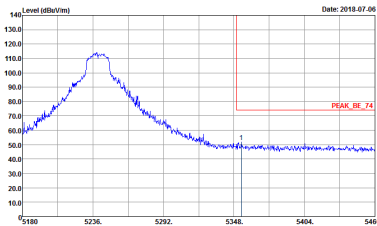
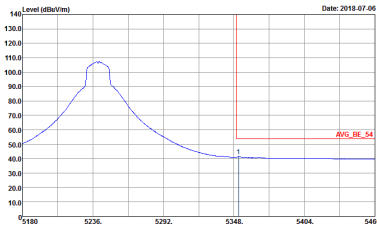


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

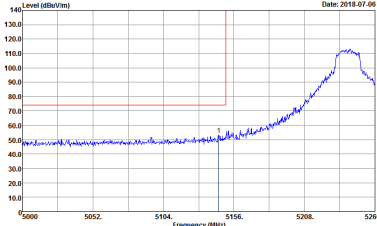
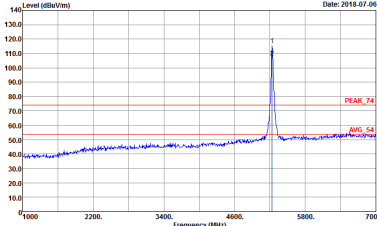
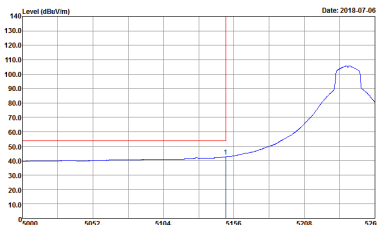


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

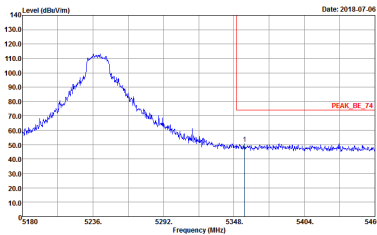
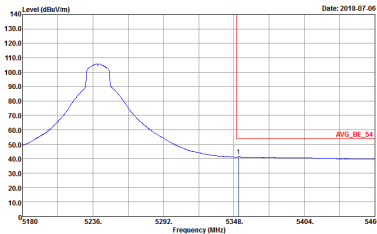


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

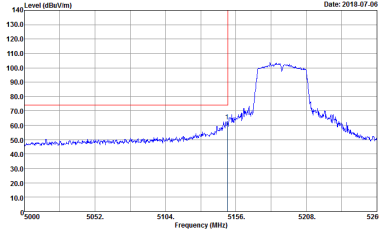
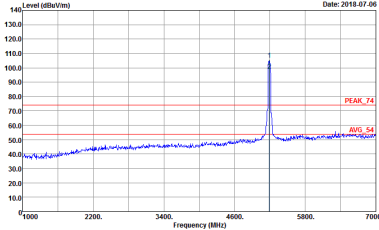
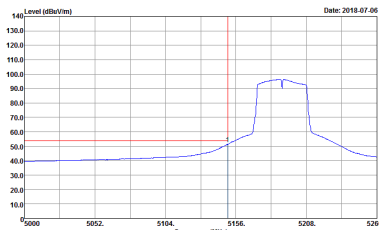


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

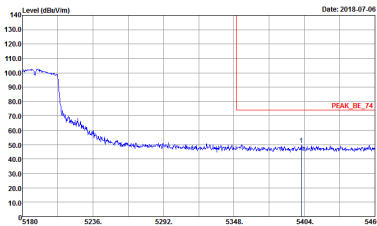
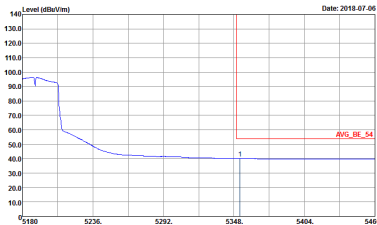


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

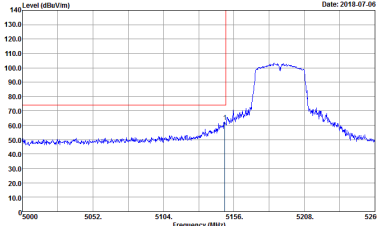
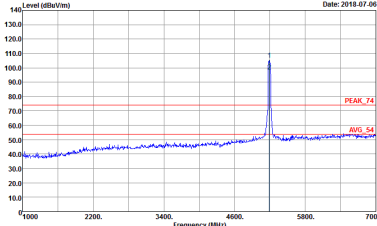
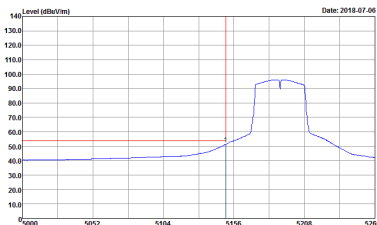
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

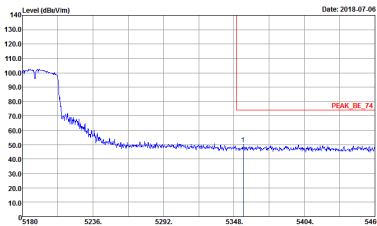
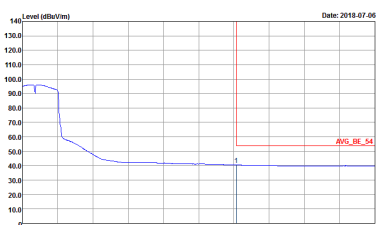


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

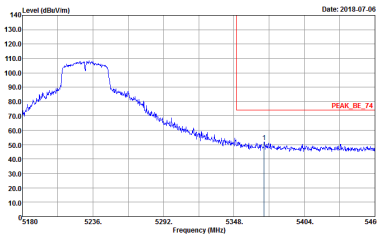
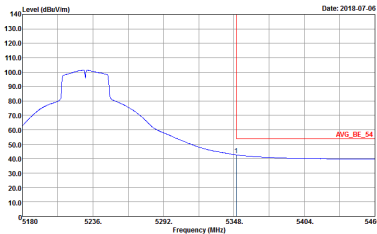


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

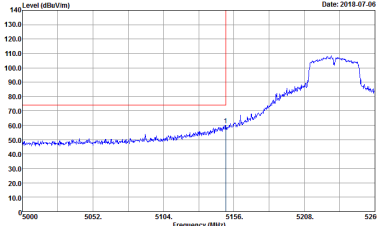
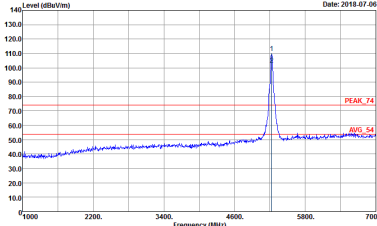
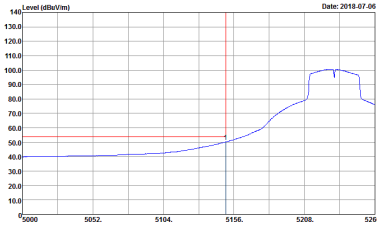


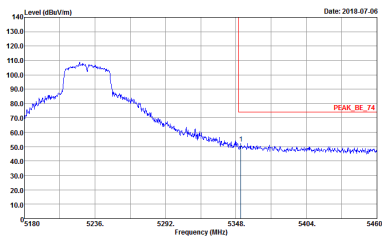
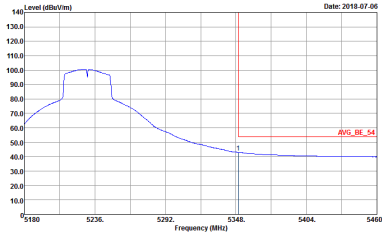
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	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

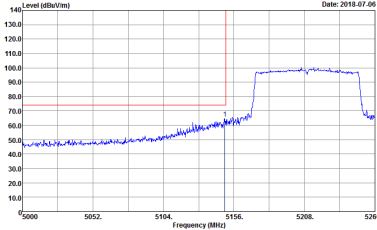
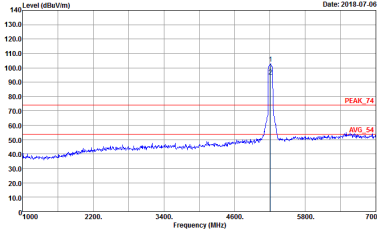
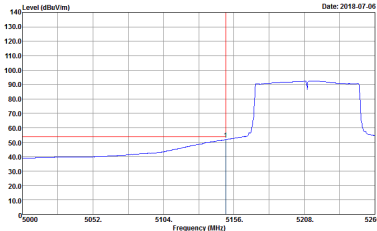


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

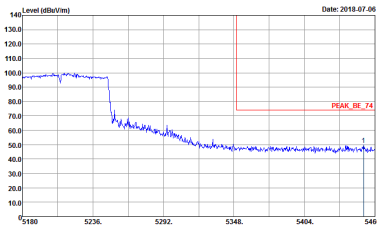
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



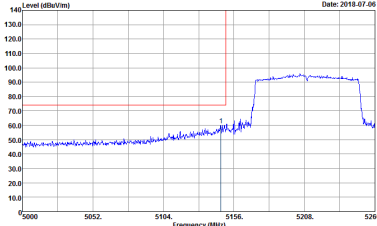
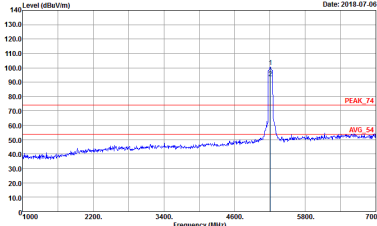
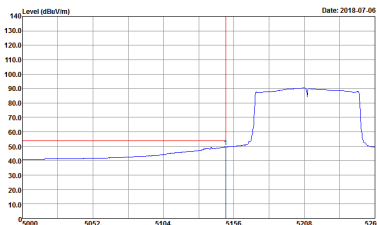
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

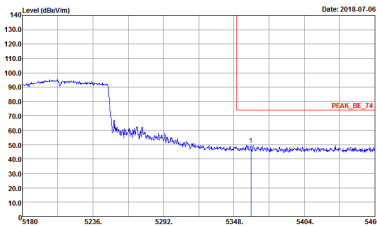
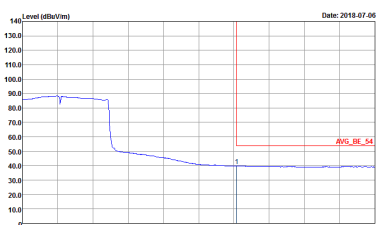


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SMT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



Band 1 - 5150~5250MHz

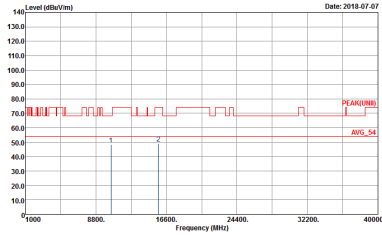
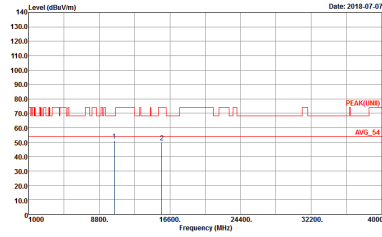
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



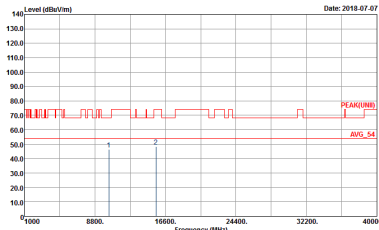
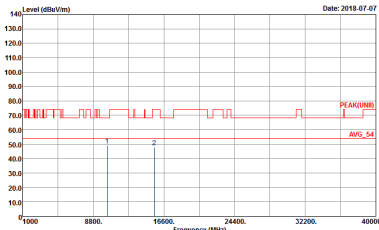
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



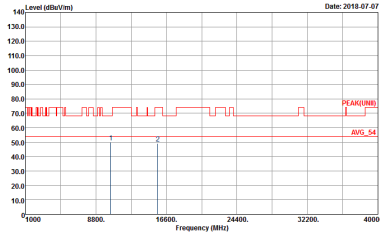
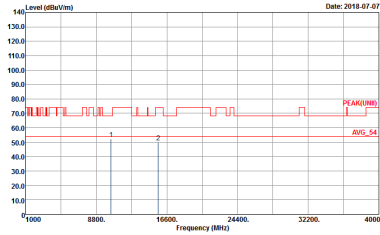
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(VIII) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(VIII) 3m SHF-EHF_131029 VERTICAL



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	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL



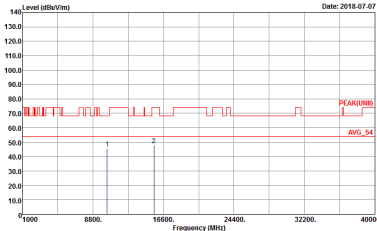
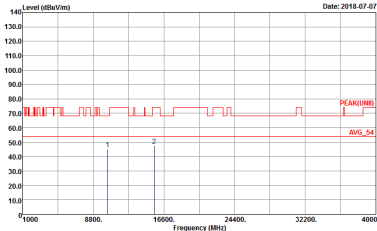
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(VIII) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(VIII) 3m SHF-EHF_131029 VERTICAL



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



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

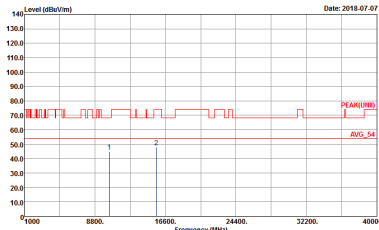
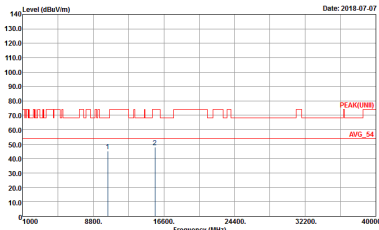
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL



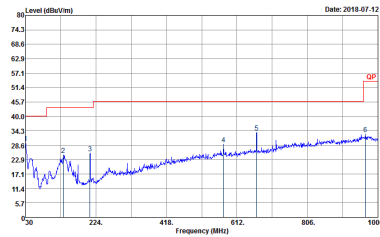
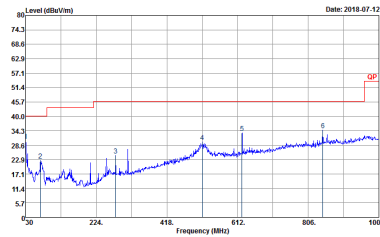
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



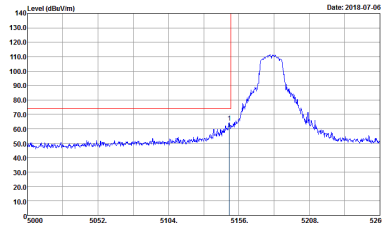
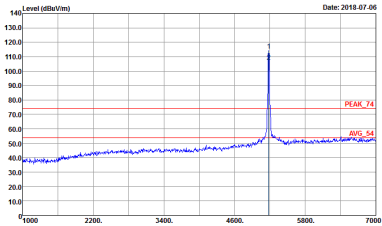
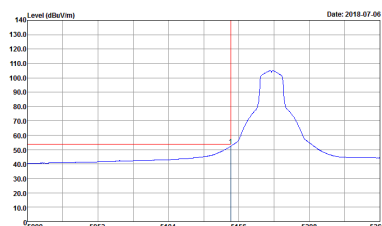
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL

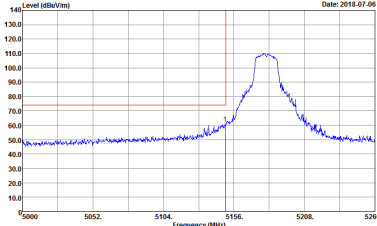
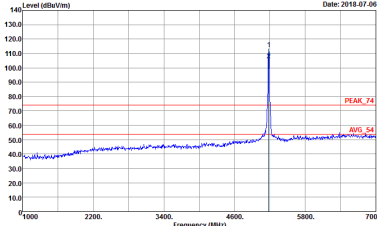
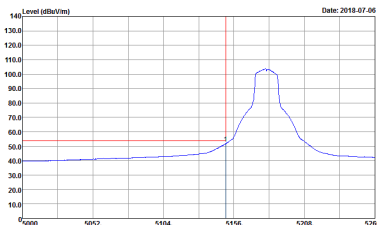
Emission below 1GHz
5GHz WIFI 802.11a (LF)

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3w LF-ANT-35419(6) HORIZONTAL	 Site : 03CH07-HY Condition : QP 3w LF-ANT-35419(6) VERTICAL

Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SMT:Auto	Left blank

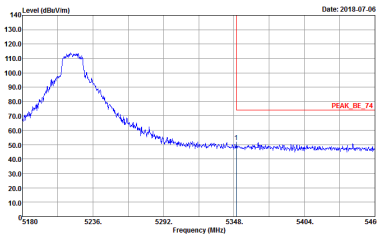
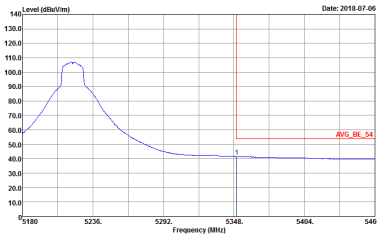


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

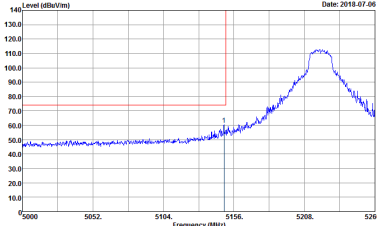
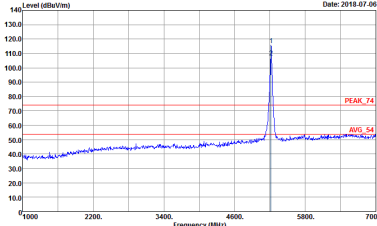
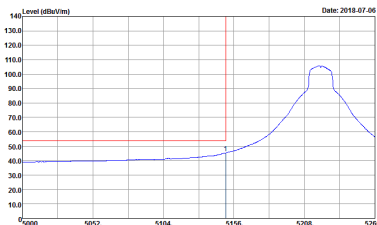


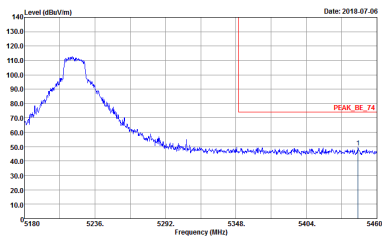
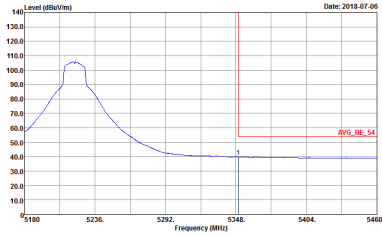
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

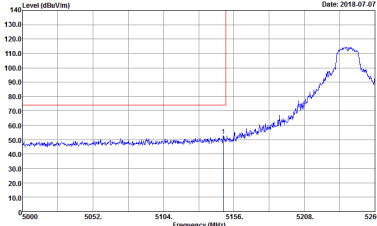
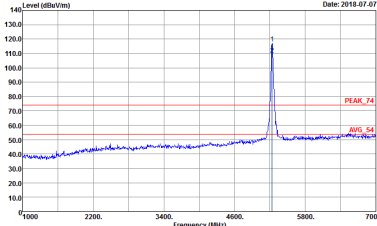
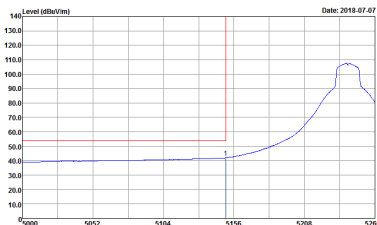


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

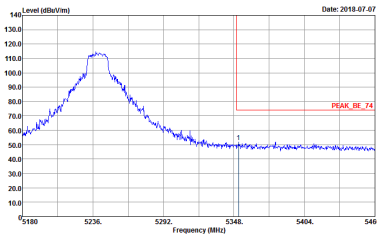
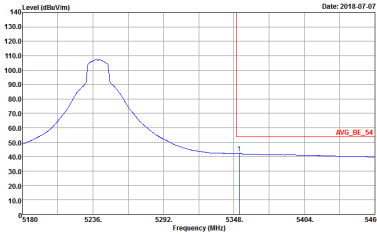


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

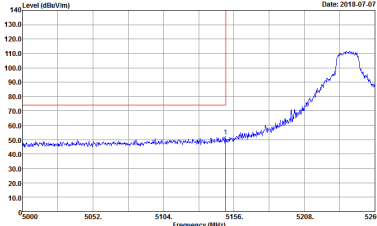
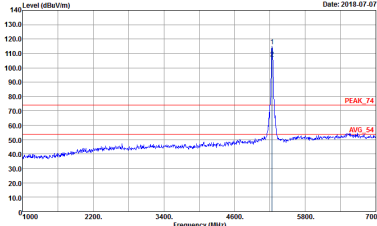
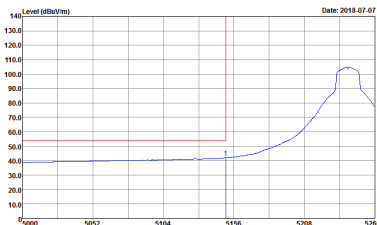
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

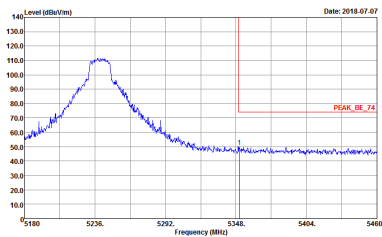
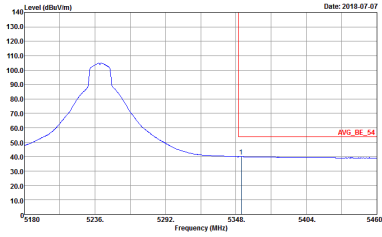
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

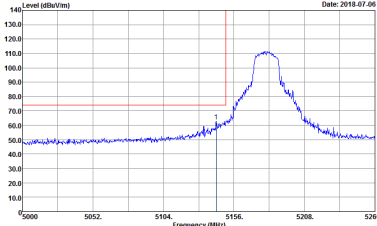
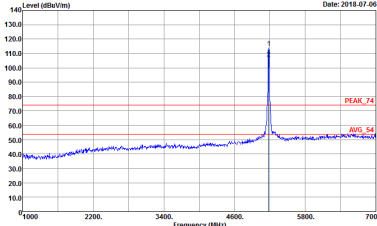
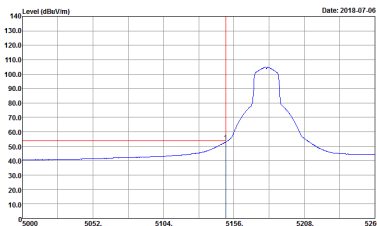


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

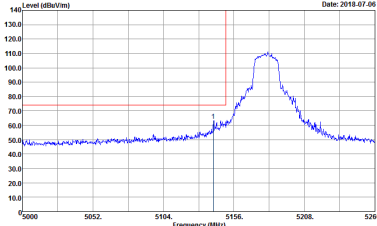
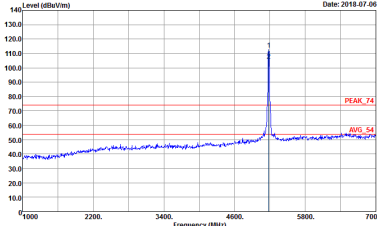
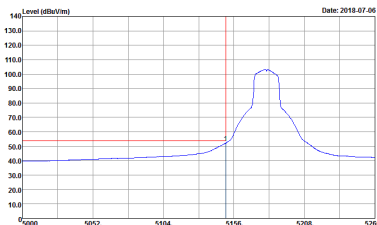
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



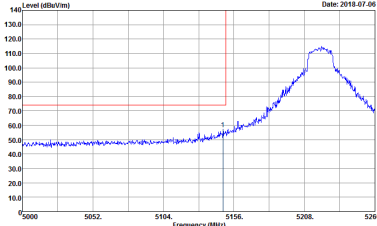
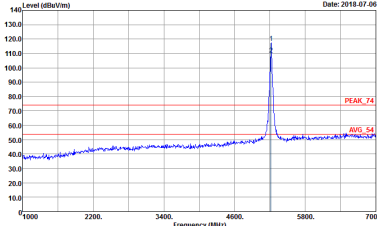
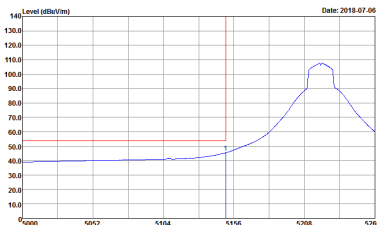
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

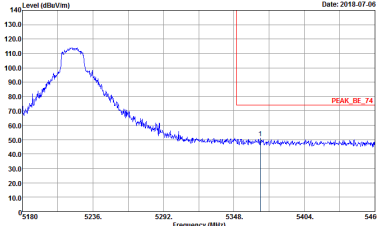
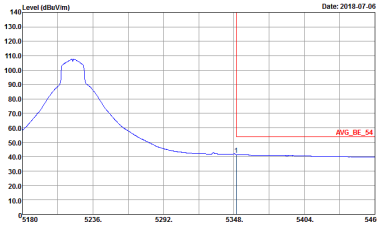


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

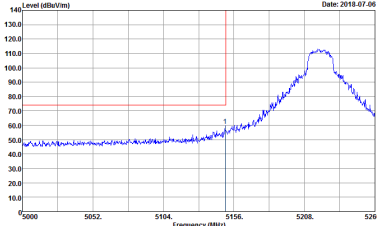
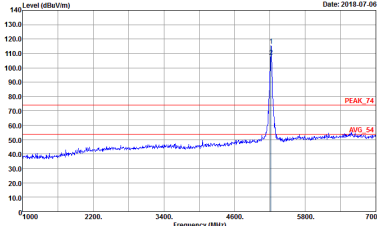
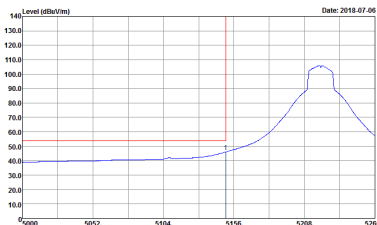


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

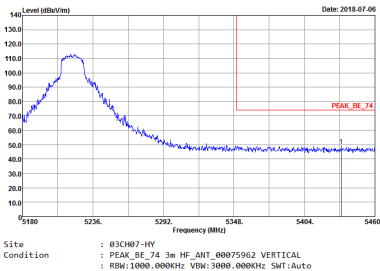
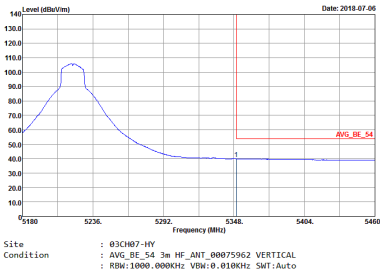


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

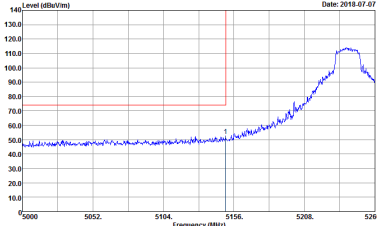
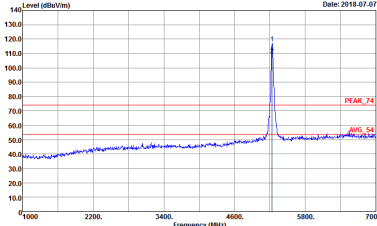
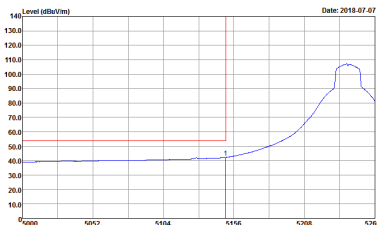


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

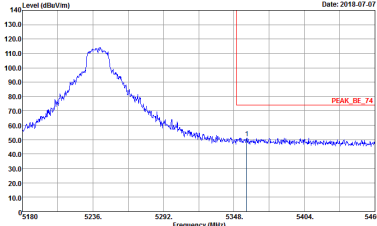
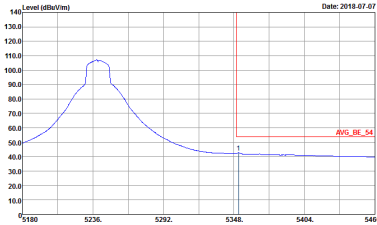


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

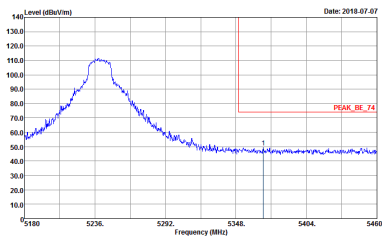
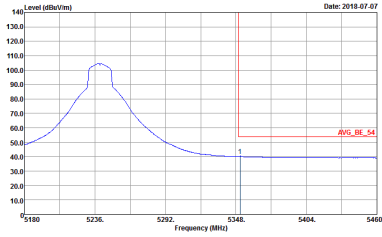


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



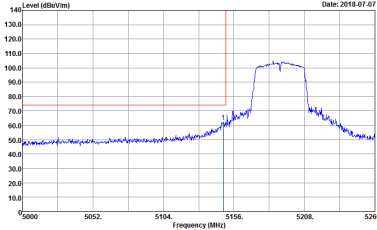
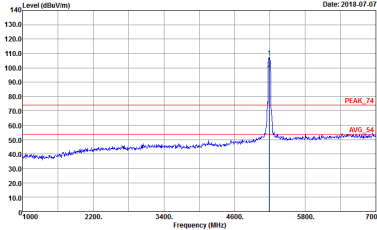
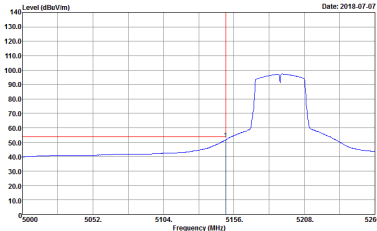
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



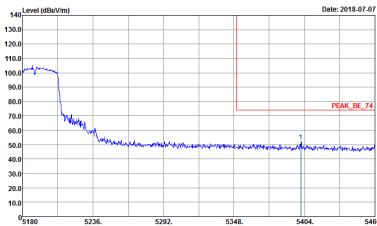
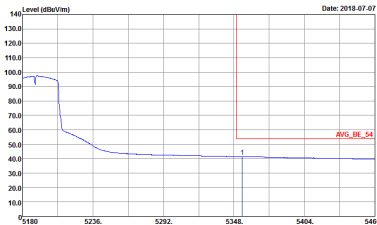
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto	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	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

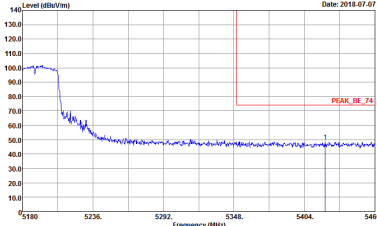
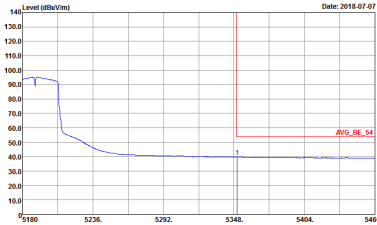


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

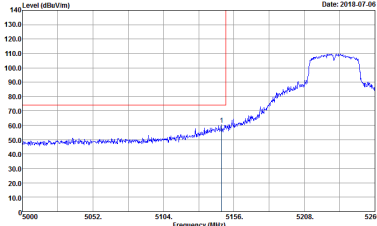
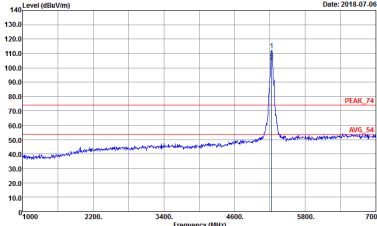
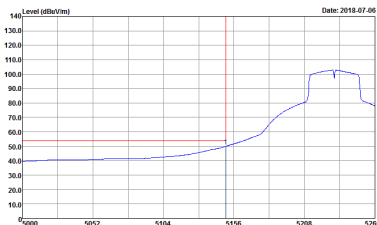


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

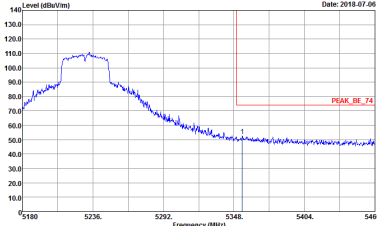
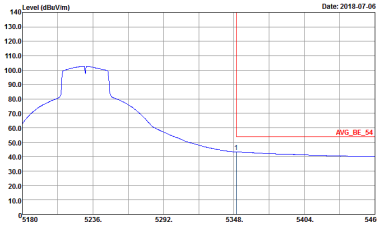


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

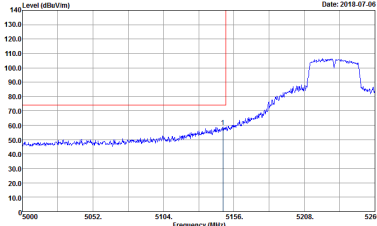
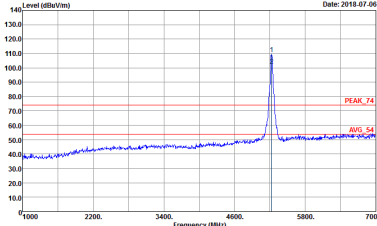
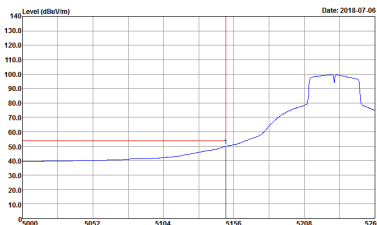


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

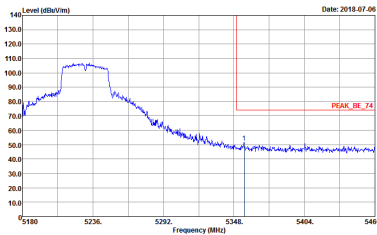
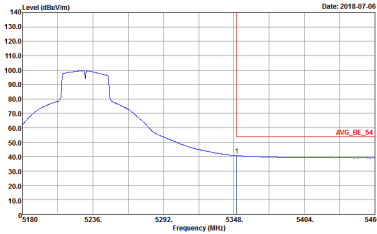


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



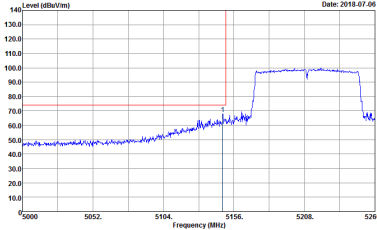
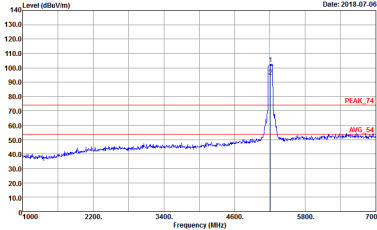
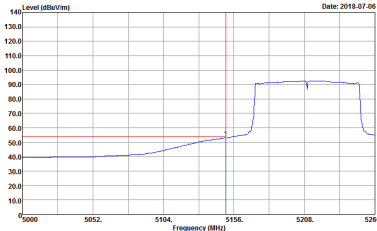
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



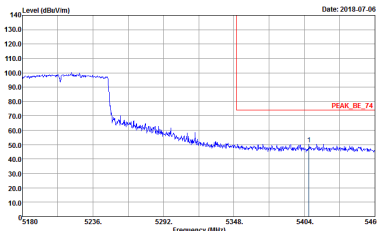
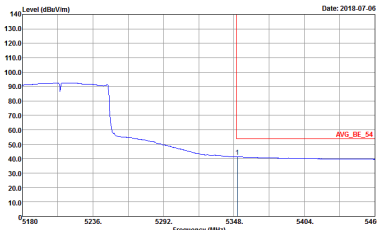
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



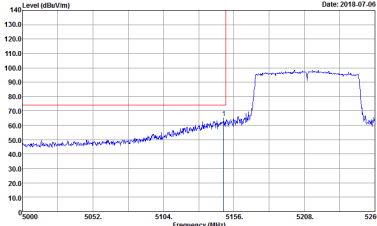
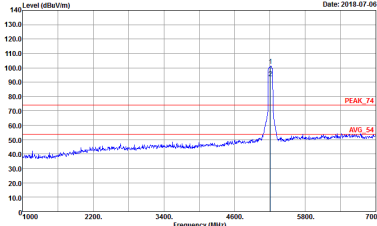
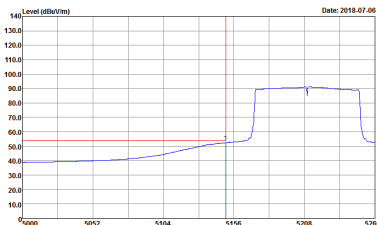
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank

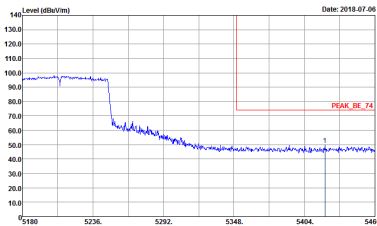
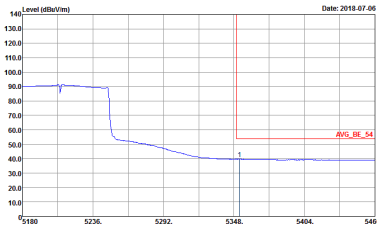


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto	Left blank



Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UHB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UHB) 3m SHF-EHF_131029 VERTICAL



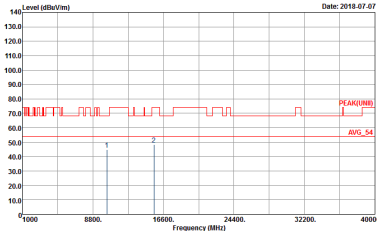
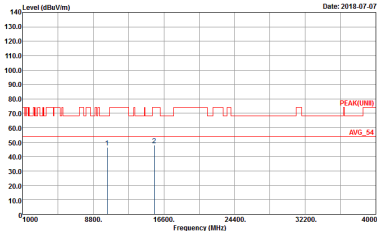
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



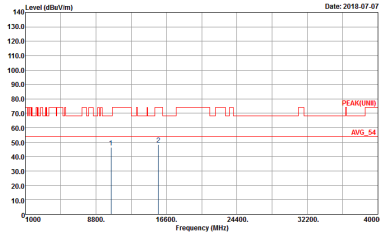
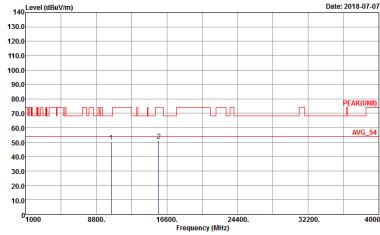
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL



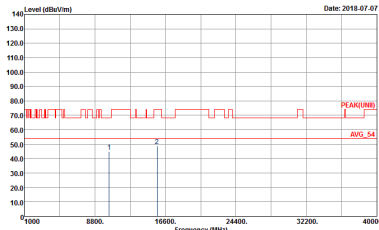
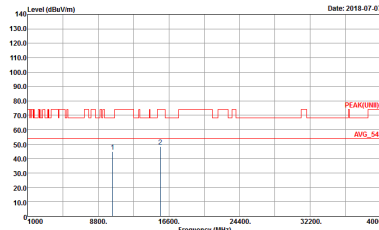
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(WIFI) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(WIFI) 3m SHF-EHF_131029 VERTICAL



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

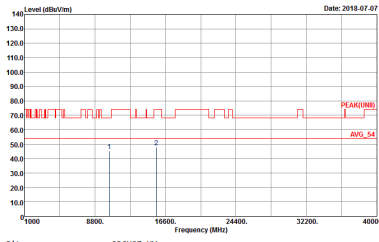
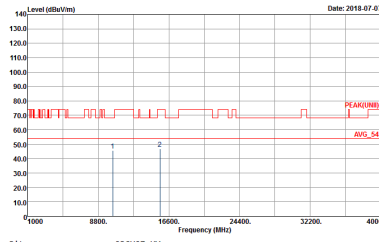
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL



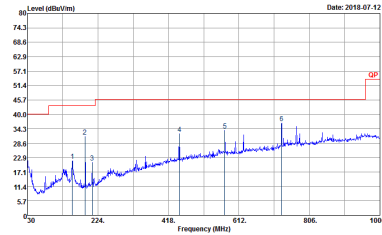
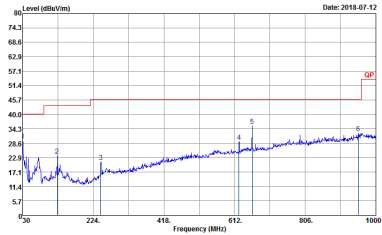
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL

Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL

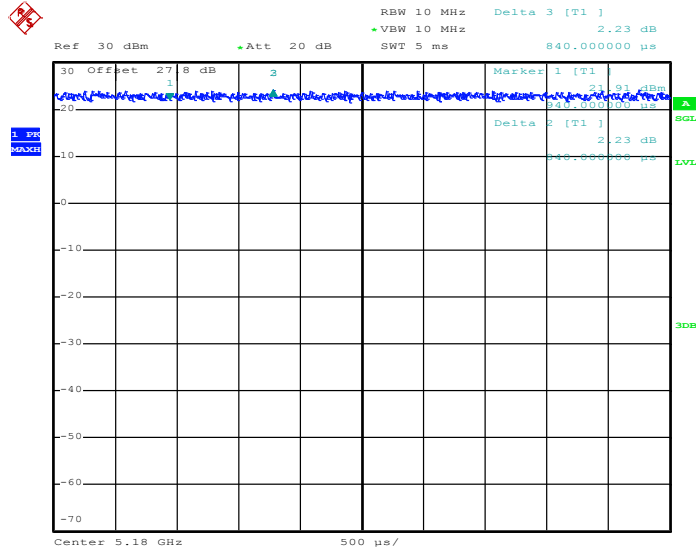
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
1	802.11a	100.00	-	-	10Hz	0.00
2	802.11a	100.00	-	-	10Hz	0.00
1	5GHz 802.11n HT20	100.00	-	-	10Hz	0.00
2	5GHz 802.11n HT20	100.00	-	-	10Hz	0.00
1	5GHz 802.11n HT40	100.00	-	-	10Hz	0.00
2	5GHz 802.11n HT40	100.00	-	-	10Hz	0.00
1	5GHz 802.11ac VHT20	100.00	-	-	10Hz	0.00
2	5GHz 802.11ac VHT20	100.00	-	-	10Hz	0.00
1	5GHz 802.11ac VHT40	100.00	-	-	10Hz	0.00
2	5GHz 802.11ac VHT40	100.00	-	-	10Hz	0.00
1	5GHz 802.11ac VHT80	100.00	-	-	10Hz	0.00
2	5GHz 802.11ac VHT80	100.00	-	-	10Hz	0.00



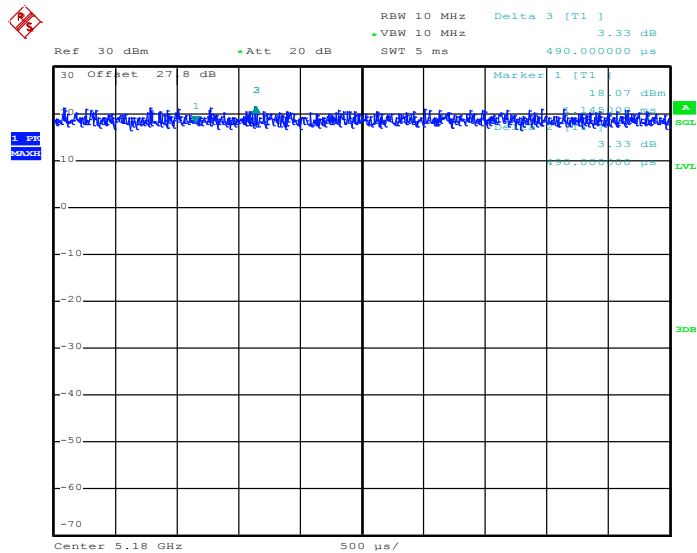
<Ant. 1>

802.11a

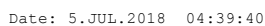


Date: 5.JUL.2018 03:48:52

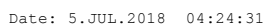
802.11n HT20



Date: 5.JUL.2018 04:14:14

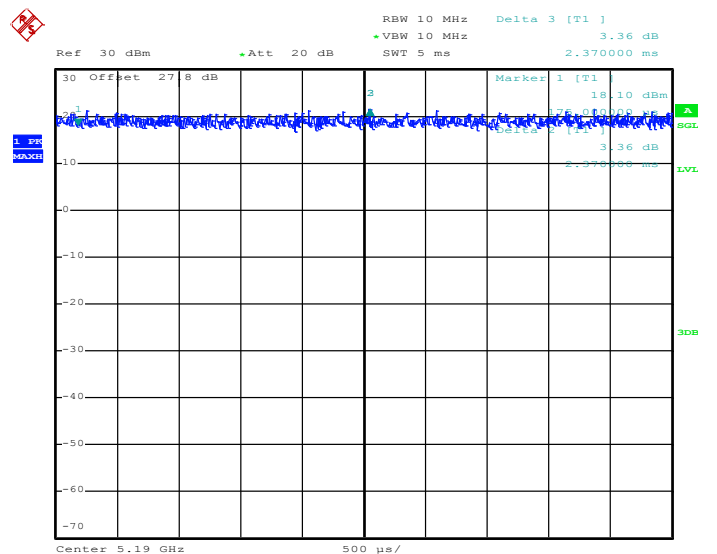


802.11ac VHT20



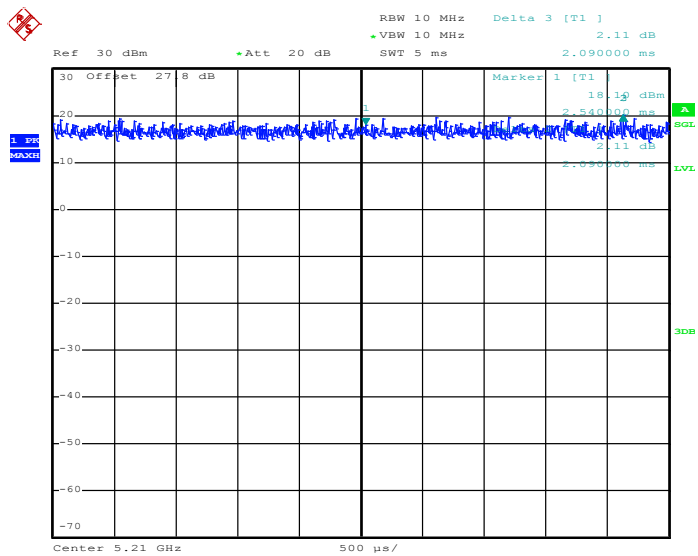


802.11ac VHT40



Date: 5.JUL.2018 04:38:02

802.11ac VHT80

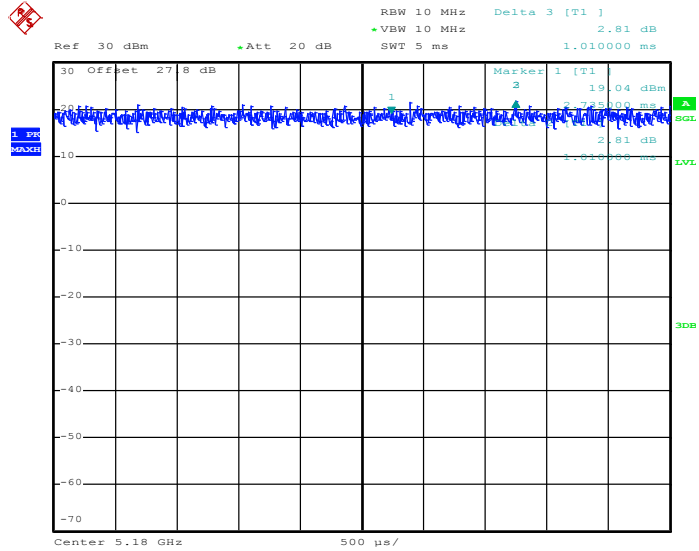


Date: 5.JUL.2018 04:54:52



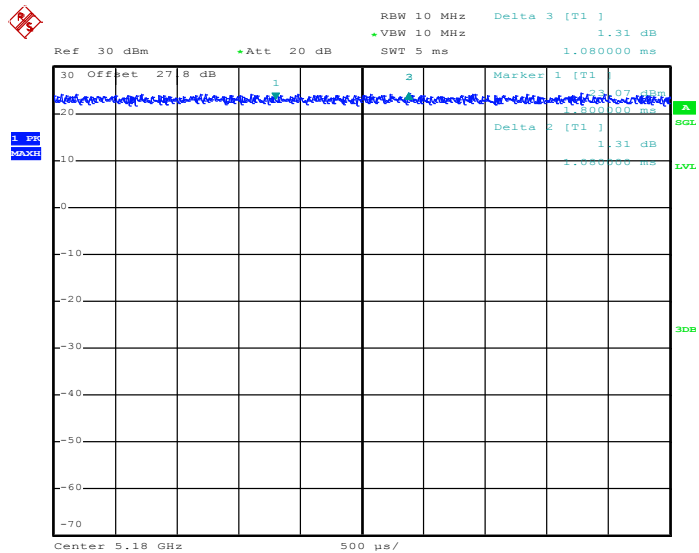
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802.11a



Date: 5.JUL.2018 03:55:58

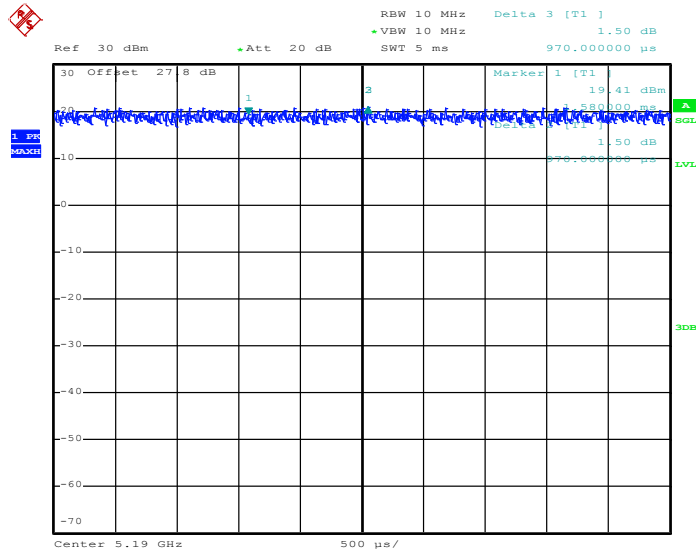
802.11n HT20



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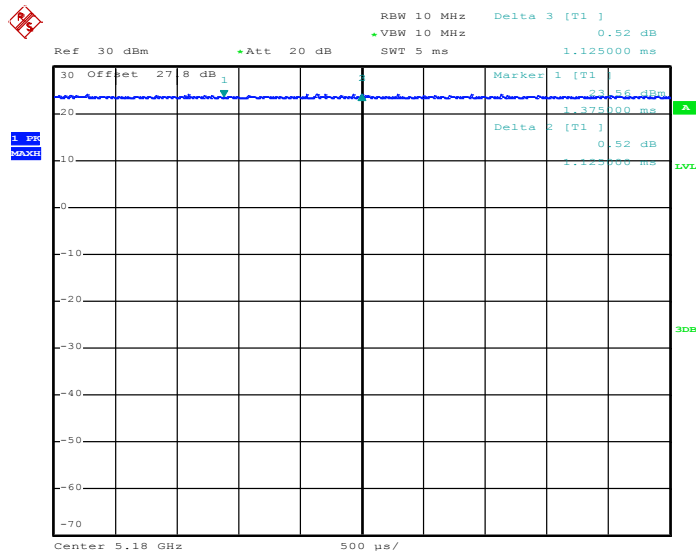


802.11n HT40



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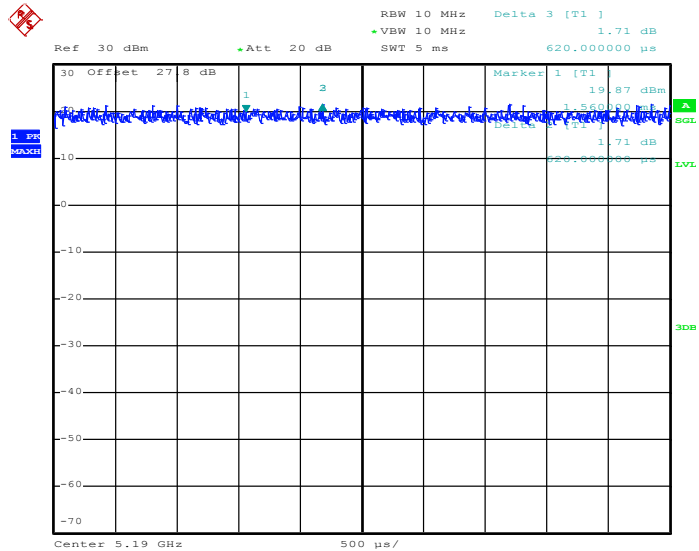
802.11ac VHT20



Date: 5.JUL.2018 04:26:26

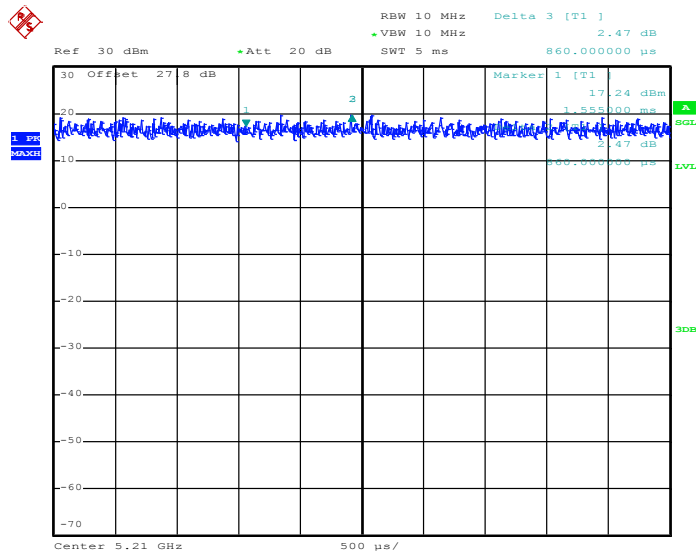


802.11ac VHT40



Date: 5.JUL.2018 04:38:22

802.11ac VHT80



Date: 5.JUL.2018 04:55:11

————THE END————