



FCC RADIO TEST REPORT

FCC ID : 2AP65-7225
Equipment : Digital Media Receiver
Model name : P5B83L
Applicant : Lindland LLC
9121 Anson Way, Ste. 200, Raleigh, NC 27615
Standard : FCC Part 15 Subpart E §15.407

The test was completed on Jul. 19, 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
FR842408-01F	01	Initial issue of report	Jul. 30, 2018
FR842408-01F	02	1. Revising the Tx/Rx Frequency Range in section 1.2 2. Revising the description of applicable standards in section 1.5 and test results in section 3.4.5.	Aug. 28, 2018



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
3.1	15.403 (i)	6dB & 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: Maggie Chiang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	P5B83L
FCC ID	2AP65-7225
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5745 MHz - 5825 MHz
Maximum Output Power to Antenna	<Ant. 1> 802.11a : 18.89 dBm / 0.0774 W 802.11n HT20 : 17.74 dBm / 0.0594 W 802.11n HT40 : 17.13 dBm / 0.0516 W 802.11ac VHT20 : 17.71 dBm / 0.0590 W 802.11ac VHT40 : 17.11 dBm / 0.0514 W 802.11ac VHT80 : 16.46 dBm / 0.0443 W <Ant. 2> 802.11a : 18.95 dBm / 0.0785 W 802.11n HT20 : 17.85 dBm / 0.0610 W 802.11n HT40 : 17.15 dBm / 0.0519 W 802.11ac VHT20 : 17.82 dBm / 0.0605 W 802.11ac VHT40 : 17.10 dBm / 0.0513 W 802.11ac VHT80 : 17.61 dBm / 0.0577 W
99% Occupied Bandwidth	<Ant. 1> 802.11a : 18.78 MHz 802.11n HT20 : 18.48 MHz 802.11n HT40 : 37.76 MHz 802.11ac VHT80 : 77.56 MHz <Ant. 2> 802.11a : 18.83 MHz 802.11n HT20 : 18.38 MHz 802.11n HT40 : 37.56 MHz 802.11ac VHT80 : 77.92 MHz
Antenna Type / Gain	Ant. 1 : Fixed Internal Antenna type with gain 0.96 dBi Ant. 2 : Fixed Internal Antenna type with gain 3.98 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)



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 and TW0007 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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH15-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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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).
- 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)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

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.

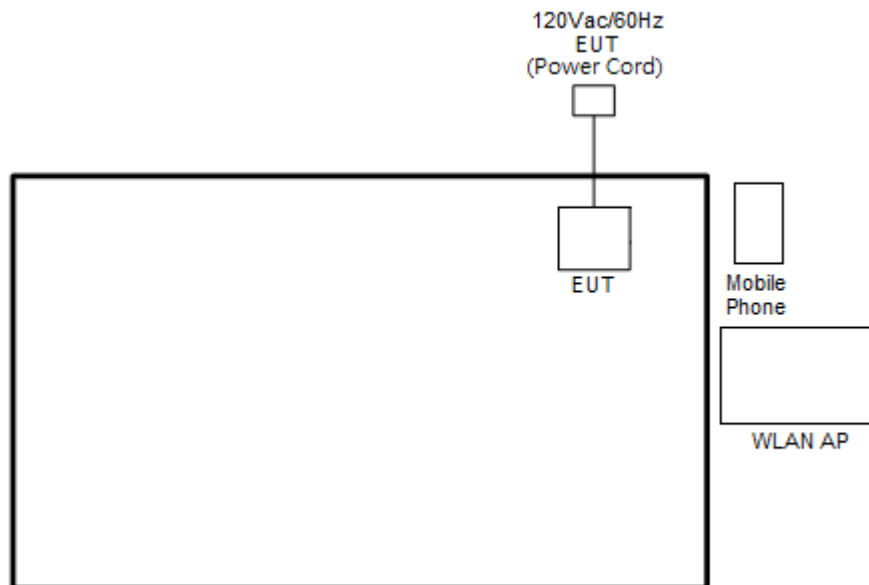
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1: WLAN (5GHz) Link + MP3 + AC Charging

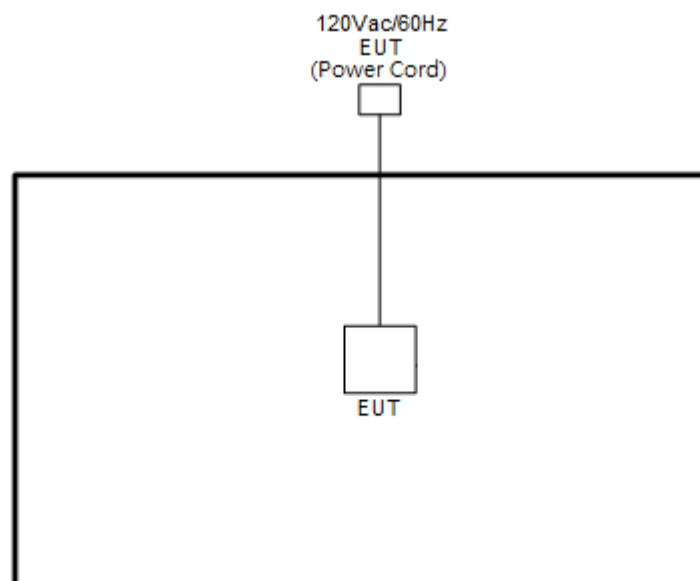
Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
2.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
3.	Mobile Phone	Apple	A1687	FCC DoC	Shielded, 1.0 m	N/A

2.5 EUT Operation Test Setupk

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 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 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

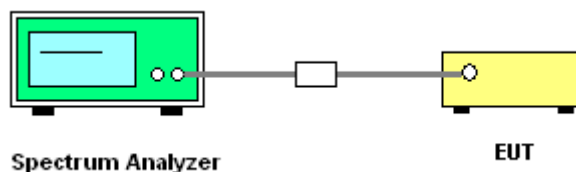
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

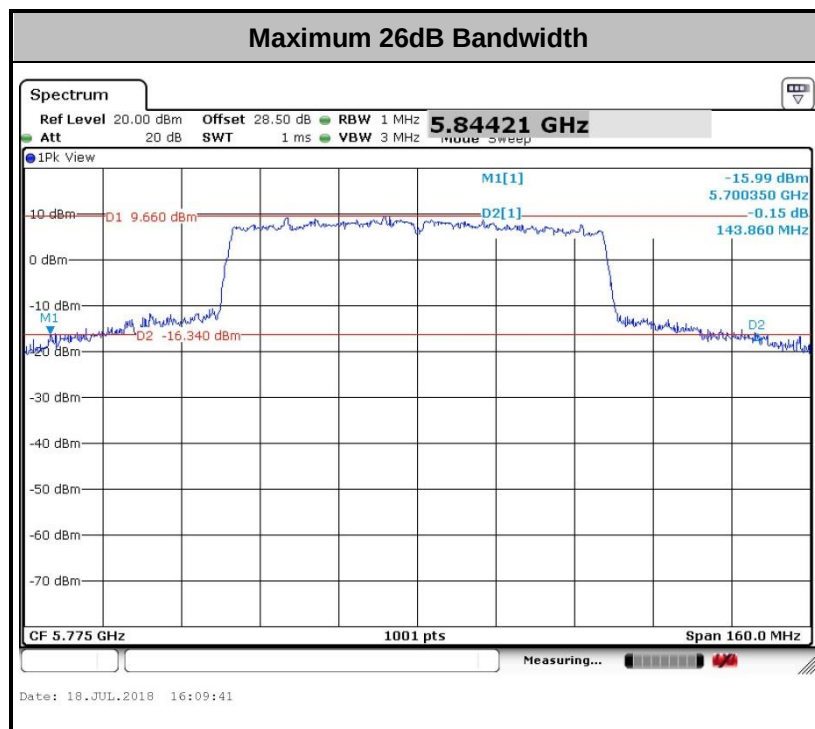
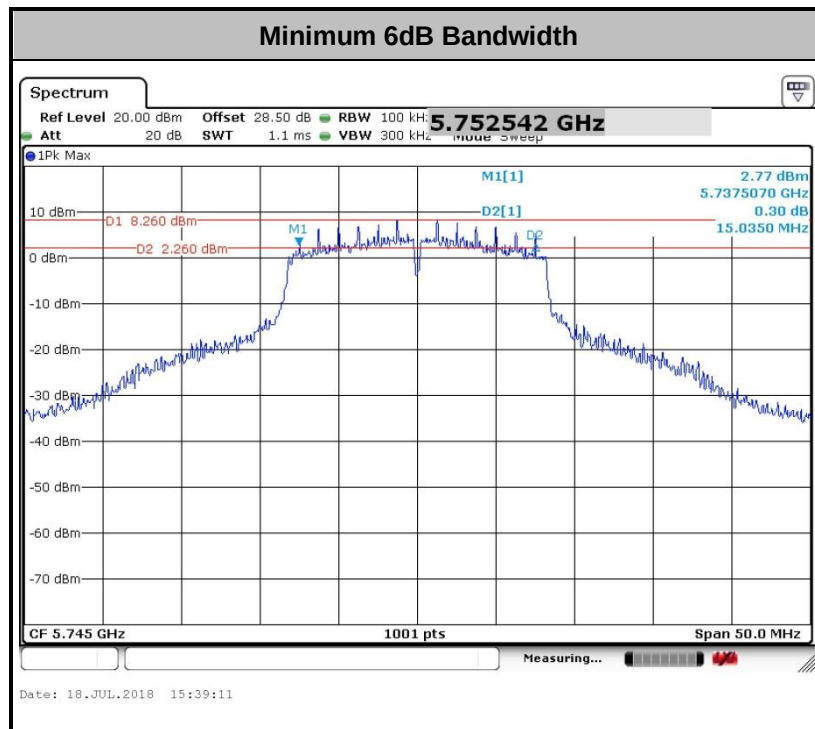
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

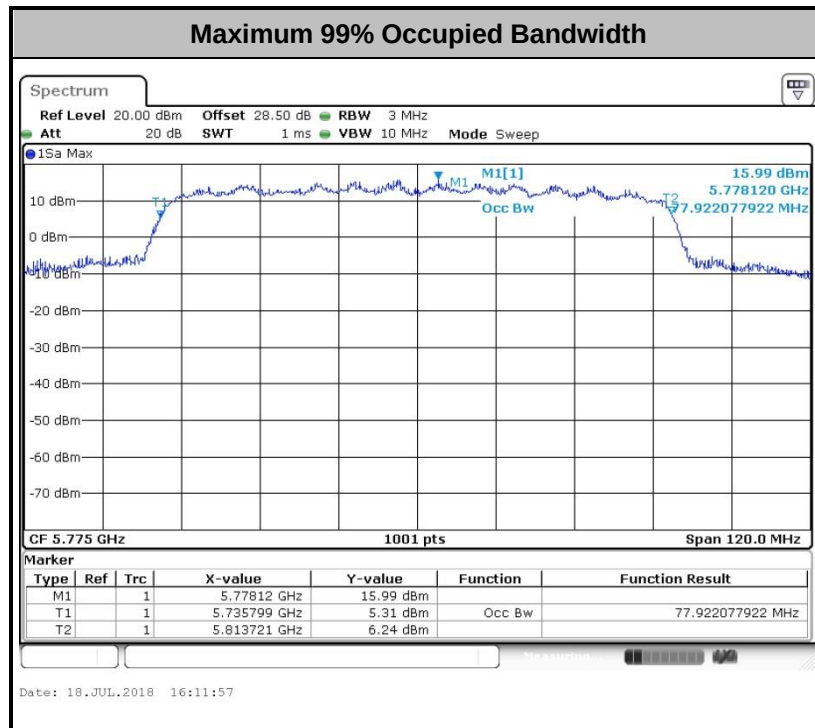
3.1.4 Test Setup



3.1.5 Test Result of 6dB 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

For the band 5.725–5.85 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.

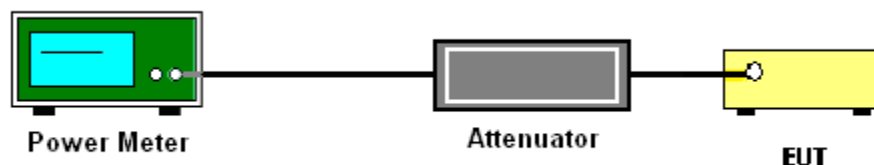
3.2.3 Test Procedures

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

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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

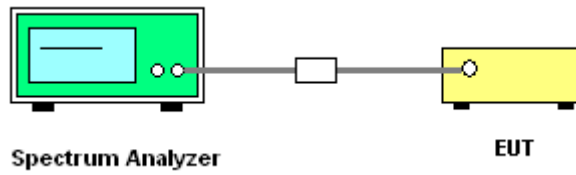
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

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

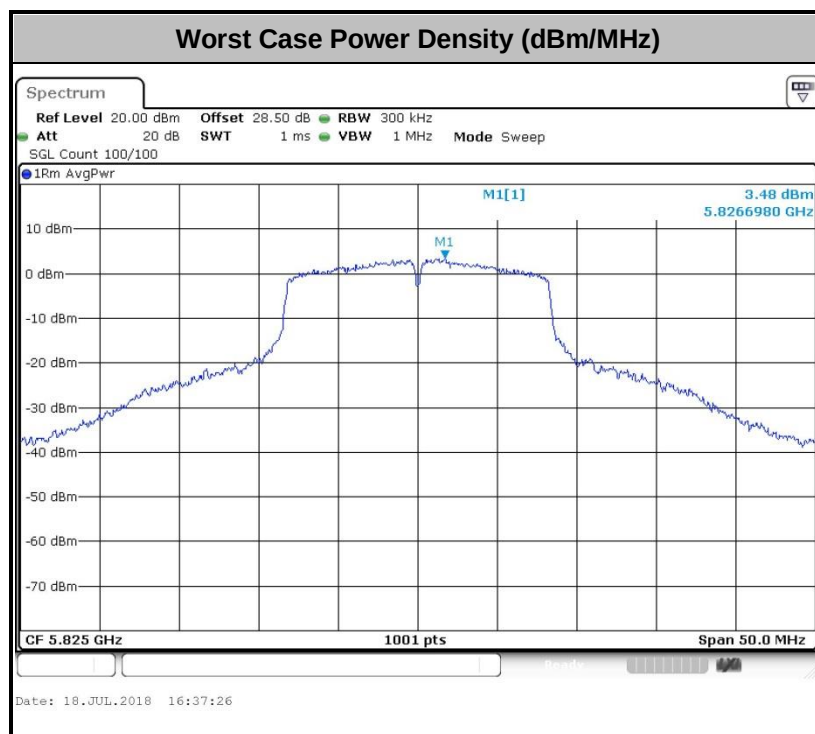
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
 - 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.



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 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (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

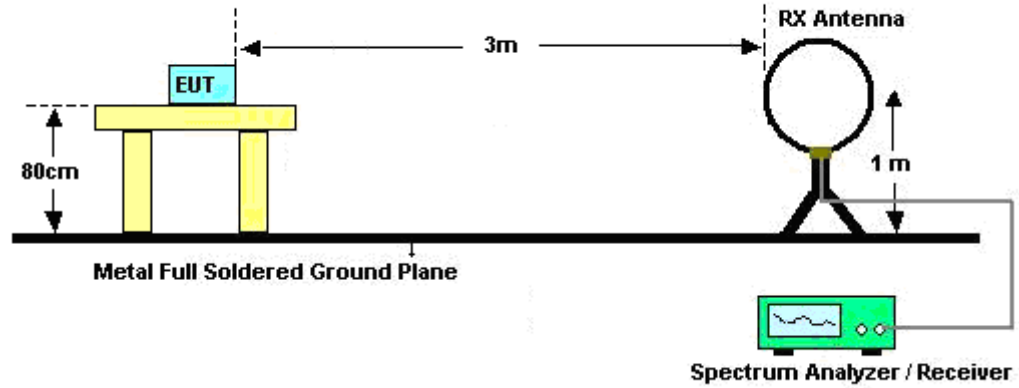
- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

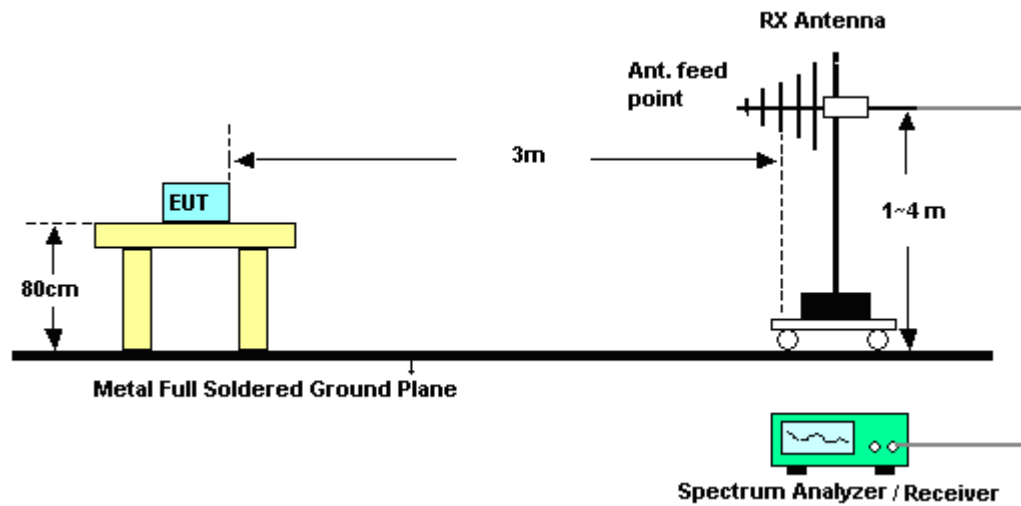
- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. 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

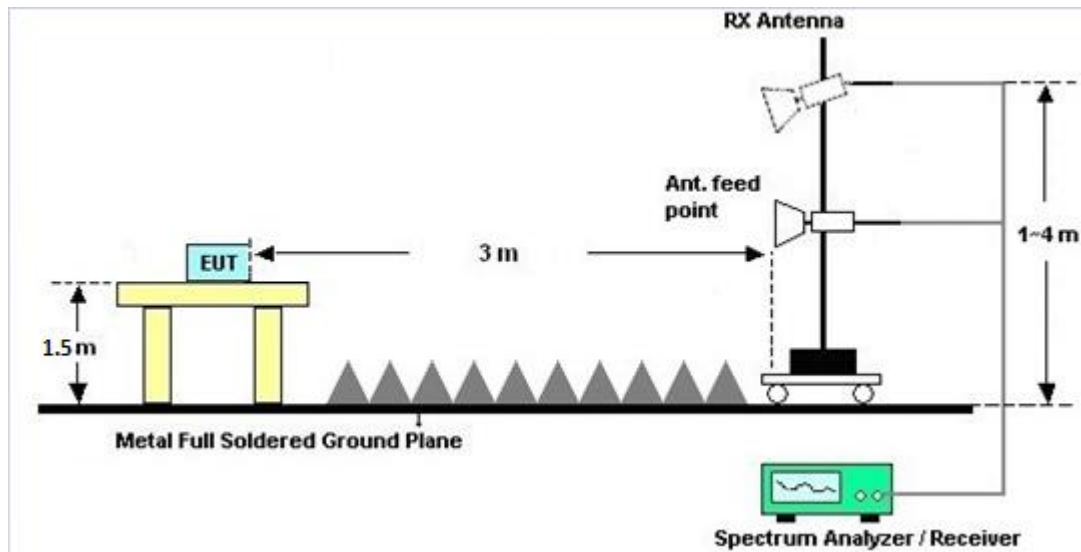
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated 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 Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

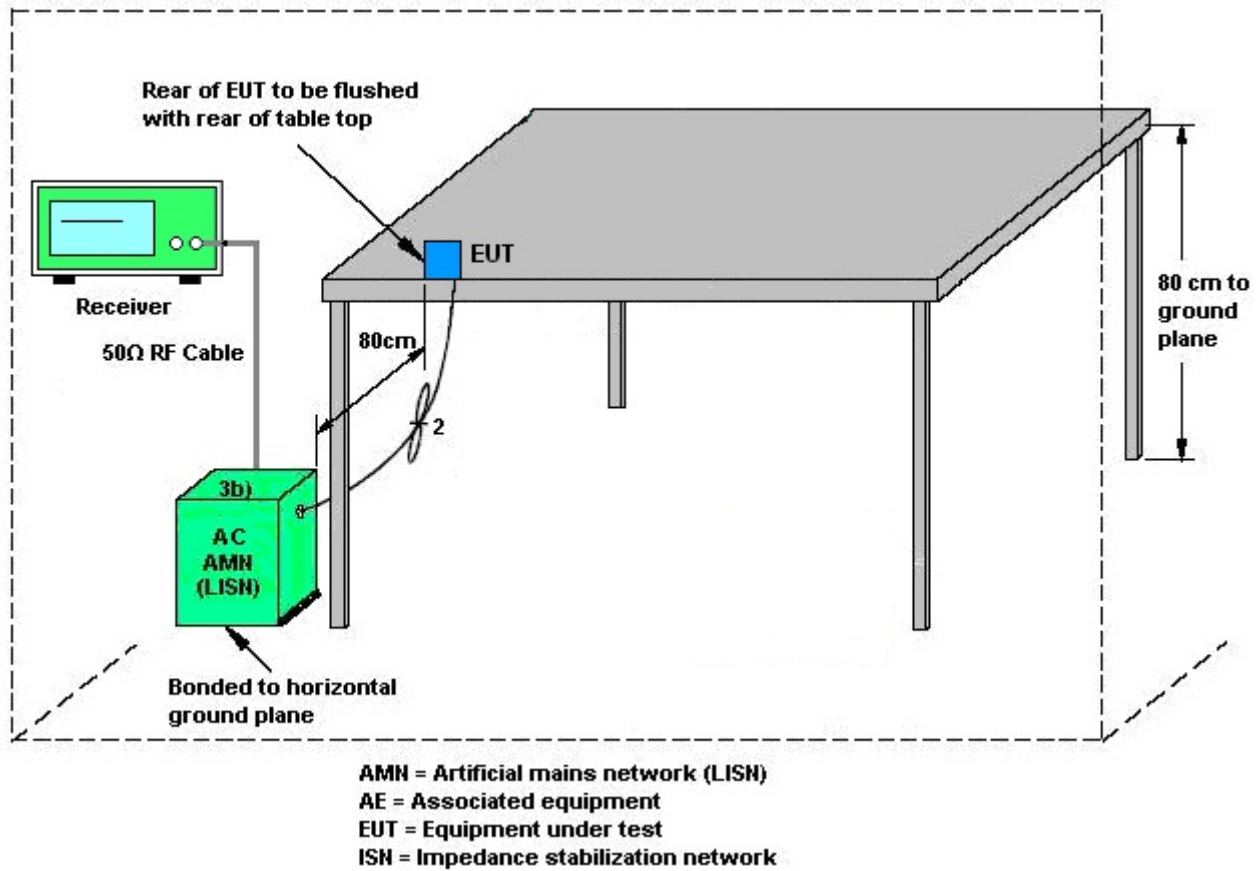
3.5.2 Measuring Instruments

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.

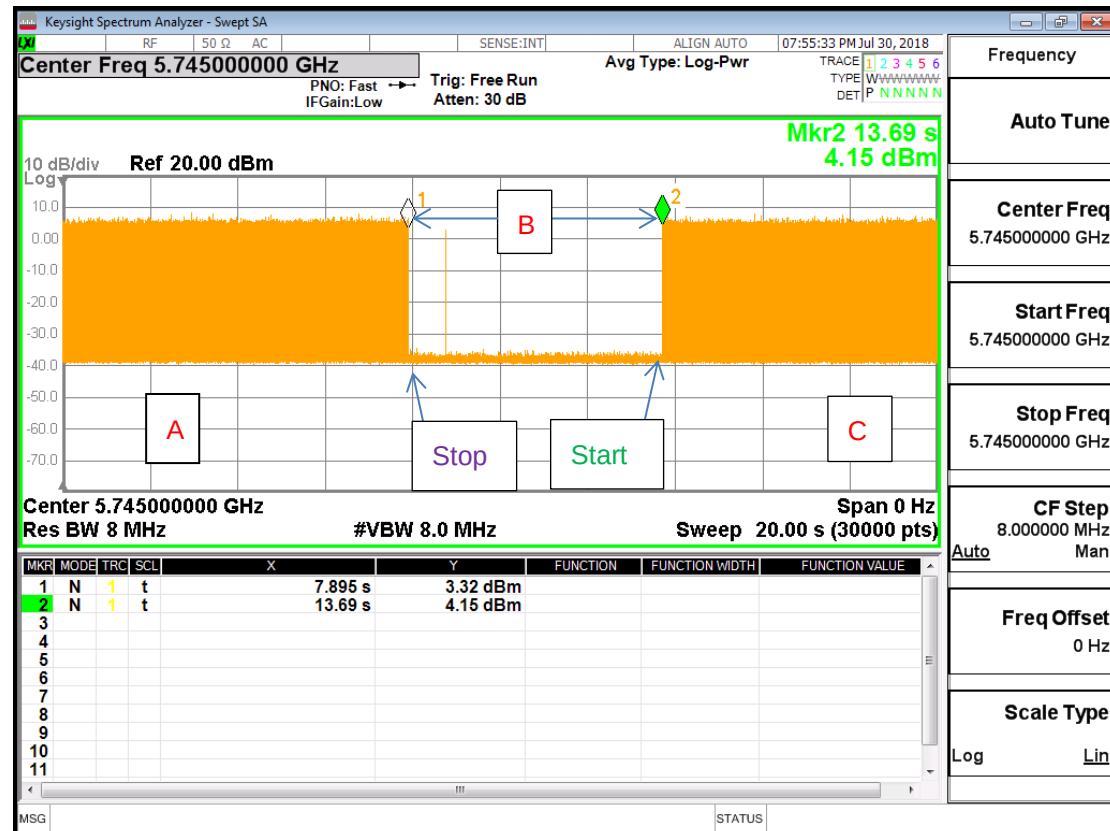
While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

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.



5745MHz



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	1240001	N/A	Sep. 07, 2017	Jun. 25, 2018~ Jul. 19, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~ 40GHz	Sep. 07, 2017	Jun. 25, 2018~ Jul. 19, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Jun. 25, 2018~ Jul. 19, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jun. 25, 2018~ Jul. 19, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 13, 2018~ Jul. 13, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 13, 2018~ Jul. 13, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 13, 2018~ Jul. 13, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 13, 2018~ Jul. 13, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 13, 2018~ Jul. 13, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 13, 2018~ Jul. 13, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jul. 18, 2018~ Jul. 19, 2018	Nov. 22, 2018	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055 0006	1GHz~18GHz	Jul. 10, 2018	Jul. 18, 2018~ Jul. 19, 2018	Jul. 09, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2017	Jul. 18, 2018~ Jul. 19, 2018	Dec. 25, 2018	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N-06	41912&05	30MHz to 1GHz	Jan. 10, 2018	Jul. 18, 2018~ Jul. 19, 2018	Jan. 09, 2019	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Oct. 31, 2017	Jul. 18, 2018~ Jul. 19, 2018	Oct. 30, 2018	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1620	1G~18GHz	Oct. 03, 2017	Jul. 18, 2018~ Jul. 19, 2018	Oct. 02, 2018	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2017	Jul. 18, 2018~ Jul. 19, 2018	Aug. 20, 2018	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 25, 2018	Jul. 18, 2018~ Jul. 19, 2018	Apr. 24, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 18, 2018~ Jul. 19, 2018	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 18, 2018~ Jul. 19, 2018	N/A	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Jul. 18, 2018~ Jul. 19, 2018	Nov. 26, 2018	Radiation (03CH15-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jul. 18, 2018~ Jul. 19, 2018	Jul. 15, 2019	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (K5)	ARD-SPR-000185	N/A	N/A	Jul. 18, 2018~ Jul. 19, 2018	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 16, 2018	Jul. 18, 2018~ Jul. 19, 2018	Apr. 15, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4	30M-18GHz	Apr. 16, 2018	Jul. 18, 2018~ Jul. 19, 2018	Apr. 15, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	MTJ	000000-MT18A-100D3210	30M-18G	Apr. 16, 2018	Jul. 18, 2018~ Jul. 19, 2018	Apr. 15, 2019	Radiation (03CH15-HY)
Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Jul. 18, 2018~ Jul. 19, 2018	Oct. 16, 2018	Radiation (03CH15-HY)
Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	Jul. 18, 2018~ Jul. 19, 2018	Oct. 16, 2018	Radiation (03CH15-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jeremy Lin	Temperature:	21~25	°C
Test Date:	2018/06/25~2018/7/19	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	17.83	17.93	35.56	34.77	15.03	15.09	0.5	0.5	Pass
11a	6Mbps	1	157	5785	17.98	18.03	35.01	34.81	15.08	15.09	0.5	0.5	Pass
11a	6Mbps	1	165	5825	18.78	18.83	37.01	35.71	15.09	15.09	0.5	0.5	Pass
HT20	MCS0	1	149	5745	18.18	18.23	36.36	36.36	15.09	15.09	0.5	0.5	Pass
HT20	MCS0	1	157	5785	18.33	18.33	36.76	36.76	15.09	15.09	0.5	0.5	Pass
HT20	MCS0	1	165	5825	18.48	18.38	38.26	37.26	15.09	15.09	0.5	0.5	Pass
HT40	MCS0	1	151	5755	37.46	37.56	69.86	69.95	35.06	35.06	0.5	0.5	Pass
HT40	MCS0	1	159	5795	37.76	37.46	71.66	69.86	35.06	35.06	0.5	0.5	Pass
VHT80	MCS0	1	155	5775	77.56	77.92	127.71	143.86	75.76	75.28	0.5	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV														
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	149	5745	0.29	0.31	18.39	18.43		30.00	30.00	0.96	3.98	Pass
11a	6Mbps	1	157	5785	0.29	0.31	18.34	18.35		30.00	30.00	0.96	3.98	Pass
11a	6Mbps	1	165	5825	0.29	0.31	18.89	18.95		30.00	30.00	0.96	3.98	Pass
HT20	MCS0	1	149	5745	0.31	0.30	17.06	17.20		30.00	30.00	0.96	3.98	Pass
HT20	MCS0	1	157	5785	0.31	0.30	17.08	17.13		30.00	30.00	0.96	3.98	Pass
HT20	MCS0	1	165	5825	0.31	0.30	17.74	17.85		30.00	30.00	0.96	3.98	Pass
HT40	MCS0	1	151	5755	0.61	0.61	17.13	17.15		30.00	30.00	0.96	3.98	Pass
HT40	MCS0	1	159	5795	0.61	0.61	17.11	17.04		30.00	30.00	0.96	3.98	Pass
VHT20	MCS0	1	149	5745	0.31	0.32	17.01	17.20		30.00	30.00	0.96	3.98	Pass
VHT20	MCS0	1	157	5785	0.31	0.32	17.03	17.13		30.00	30.00	0.96	3.98	Pass
VHT20	MCS0	1	165	5825	0.31	0.32	17.71	17.82		30.00	30.00	0.96	3.98	Pass
VHT40	MCS0	1	151	5755	0.61	0.61	17.11	17.10		30.00	30.00	0.96	3.98	Pass
VHT40	MCS0	1	159	5795	0.61	0.61	17.05	17.01		30.00	30.00	0.96	3.98	Pass
VHT80	MCS0	1	155	5775	1.15	1.16	16.46	17.61		30.00	30.00	0.96	3.98	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.29	0.31	2.22	2.22	5.42	5.78		30.00	30.00	0.96	3.98	Pass
11a	6Mbps	1	157	5785	0.29	0.31	2.22	2.22	5.26	5.26		30.00	30.00	0.96	3.98	Pass
11a	6Mbps	1	165	5825	0.29	0.31	2.22	2.22	5.74	6.00		30.00	30.00	0.96	3.98	Pass
HT20	MCS0	1	149	5745	0.31	0.30	2.22	2.22	4.19	3.68		30.00	30.00	0.96	3.98	Pass
HT20	MCS0	1	157	5785	0.31	0.30	2.22	2.22	3.83	3.81		30.00	30.00	0.96	3.98	Pass
HT20	MCS0	1	165	5825	0.31	0.30	2.22	2.22	4.51	4.40		30.00	30.00	0.96	3.98	Pass
HT40	MCS0	1	151	5755	0.61	0.61	2.22	2.22	0.75	0.83		30.00	30.00	0.96	3.98	Pass
HT40	MCS0	1	159	5795	0.61	0.61	2.22	2.22	0.40	0.67		30.00	30.00	0.96	3.98	Pass
VHT80	MCS0	1	155	5775	1.15	1.16	2.22	2.22	-3.62	-2.53		30.00	30.00	0.96	3.98	Pass



Appendix B. AC Conducted Emission Test Results

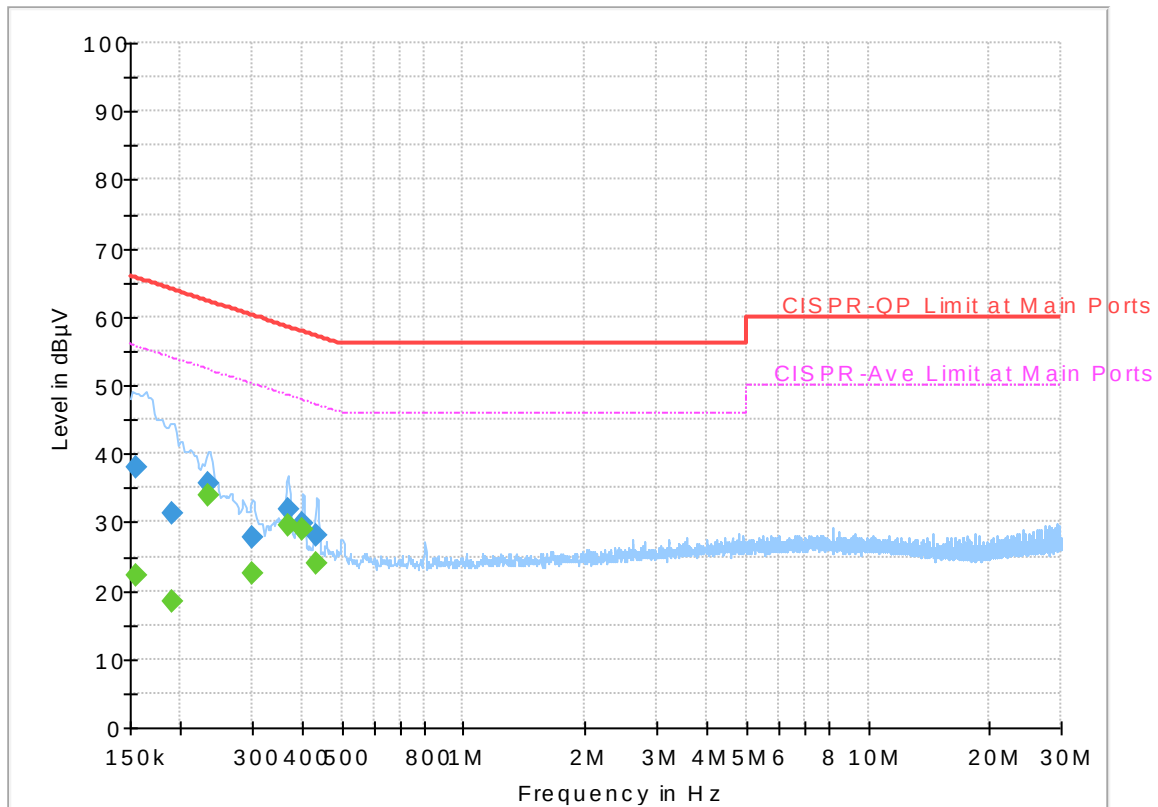
Test Engineer :	Kai-Chun Chu	Temperature :	25~27°C
		Relative Humidity :	50~52%

EUT Information

Report NO : 842408-01

Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

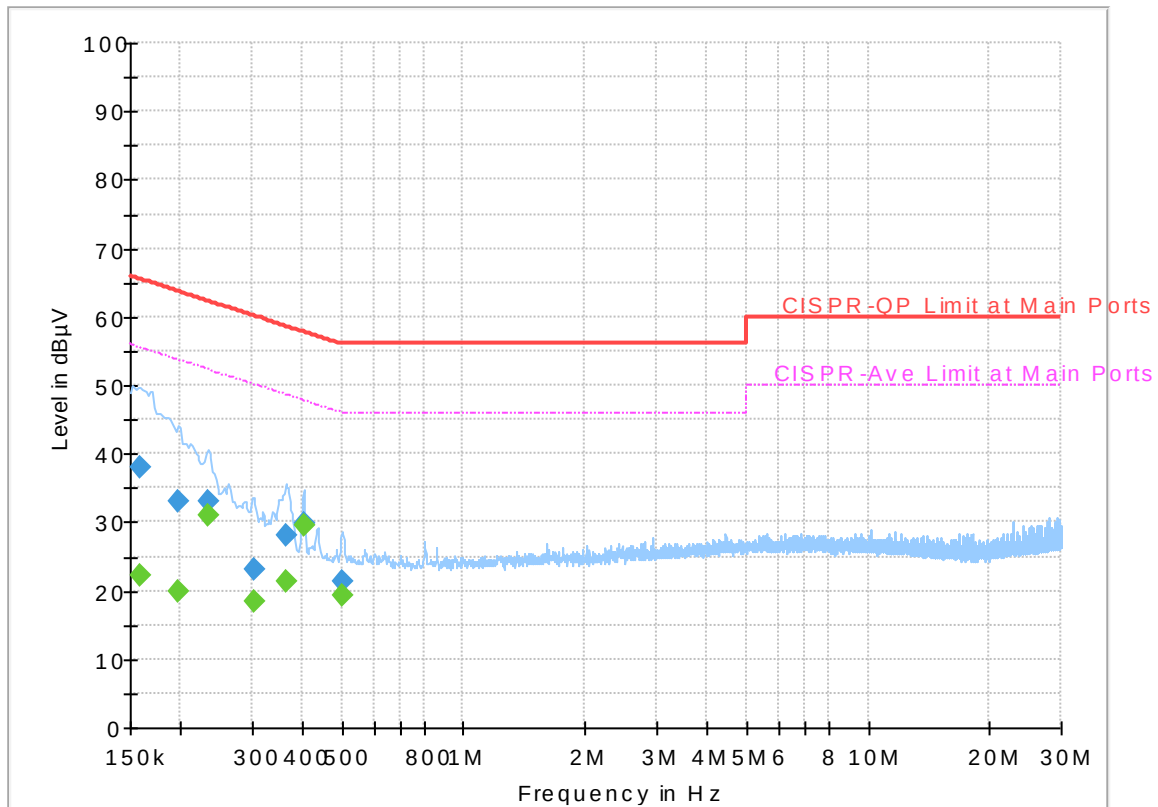
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	22.14	55.75	33.61	L1	OFF	19.5
0.154500	38.06	---	65.75	27.69	L1	OFF	19.5
0.190500	---	18.28	54.02	35.74	L1	OFF	19.5
0.190500	31.36	---	64.02	32.66	L1	OFF	19.5
0.233250	---	33.92	52.33	18.41	L1	OFF	19.5
0.233250	35.61	---	62.33	26.72	L1	OFF	19.5
0.300750	---	22.63	50.22	27.59	L1	OFF	19.5
0.300750	27.70	---	60.22	32.52	L1	OFF	19.5
0.368250	---	29.61	48.54	18.93	L1	OFF	19.5
0.368250	31.86	---	58.54	26.68	L1	OFF	19.5
0.399750	---	28.88	47.86	18.98	L1	OFF	19.5
0.399750	29.74	---	57.86	28.12	L1	OFF	19.5
0.433500	---	23.91	47.19	23.28	L1	OFF	19.5
0.433500	28.08	---	57.19	29.11	L1	OFF	19.5

EUT Information

Report NO : 842408-01

Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	22.30	55.52	33.22	N	OFF	19.5
0.159000	38.00	---	65.52	27.52	N	OFF	19.5
0.197250	---	19.75	53.73	33.98	N	OFF	19.5
0.197250	33.05	---	63.73	30.68	N	OFF	19.5
0.233250	---	30.97	52.33	21.36	N	OFF	19.5
0.233250	33.06	---	62.33	29.27	N	OFF	19.5
0.303000	---	18.28	50.16	31.88	N	OFF	19.5
0.303000	23.11	---	60.16	37.05	N	OFF	19.5
0.363750	---	21.31	48.64	27.33	N	OFF	19.5
0.363750	28.14	---	58.64	30.50	N	OFF	19.5
0.402000	---	29.48	47.81	18.33	N	OFF	19.5
0.402000	29.90	---	57.81	27.91	N	OFF	19.5
0.501000	---	19.34	46.00	26.66	N	OFF	19.5
0.501000	21.27	---	56.00	34.73	N	OFF	19.5



Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, Kay Hou, Lance Chiang	Temperature :	22~26°C
		Relative Humidity :	52~58%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5640.6	52.3	-15.9	68.2	41.12	32.17	9.23	30.22	247	239	P	H
		5700	57.57	-47.63	105.2	46.25	32.23	9.34	30.25	247	239	P	H
		5719.2	69.61	-40.97	110.58	58.23	32.27	9.37	30.26	247	239	P	H
		5724.8	76.17	-45.57	121.74	64.78	32.27	9.38	30.26	247	239	P	H
	*	5745	111.32	-	-	99.88	32.29	9.42	30.27	247	239	P	H
	*	5745	104.11	-	-	92.67	32.29	9.42	30.27	247	239	A	H
		5646.2	51.54	-16.66	68.2	40.35	32.17	9.24	30.22	400	298	P	V
		5699.4	57.42	-47.34	104.76	46.11	32.23	9.33	30.25	400	298	P	V
		5720	70.07	-40.73	110.8	58.69	32.27	9.37	30.26	400	298	P	V
		5724.6	75.11	-46.18	121.29	63.72	32.27	9.38	30.26	400	298	P	V
	*	5745	110.63	-	-	99.19	32.29	9.42	30.27	400	298	P	V
	*	5745	103.32	-	-	91.88	32.29	9.42	30.27	400	298	A	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 157 5785MHz		5623.2	52.35	-15.85	68.2	41.23	32.14	9.19	30.21	265	233	P	H
		5682	52.27	-39.65	91.92	41.01	32.21	9.3	30.25	265	233	P	H
		5717.6	53.6	-56.53	110.13	42.22	32.27	9.37	30.26	265	233	P	H
		5722	53.13	-62.23	115.36	41.74	32.27	9.38	30.26	265	233	P	H
	*	5785	112.03	-	-	100.51	32.33	9.49	30.3	265	233	P	H
	*	5785	104.65	-	-	93.13	32.33	9.49	30.3	265	233	A	H
		5852	52.75	-64.89	117.64	41.09	32.41	9.58	30.33	265	233	P	H
		5870.8	53.8	-52.57	106.37	42.08	32.46	9.6	30.34	265	233	P	H
		5886.8	52.97	-43.47	96.44	41.25	32.46	9.62	30.36	265	233	P	H
		5947.2	52.53	-15.67	68.2	40.68	32.54	9.69	30.38	265	233	P	H
		5609.4	50.67	-17.53	68.2	39.59	32.12	9.17	30.21	395	298	P	V
		5673.4	52.81	-32.75	85.56	41.54	32.21	9.29	30.23	395	298	P	V
		5715	52.83	-56.57	109.4	41.48	32.25	9.36	30.26	395	298	P	V
		5723	52.71	-64.93	117.64	41.32	32.27	9.38	30.26	395	298	P	V
	*	5785	110.54	-	-	99.02	32.33	9.49	30.3	395	298	P	V
	*	5785	103.46	-	-	91.94	32.33	9.49	30.3	395	298	A	V
		5853.4	52.36	-62.09	114.45	40.7	32.41	9.58	30.33	395	298	P	V
		5872.4	52.78	-53.15	105.93	41.06	32.46	9.6	30.34	395	298	P	V
		5919.4	52.09	-20.24	72.33	40.3	32.5	9.66	30.37	395	298	P	V
		5930.2	50.89	-17.31	68.2	39.07	32.52	9.67	30.37	395	298	P	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11a CH 165 5825MHz	*	5825	112.65	-	-	101.03	32.39	9.55	30.32	270	231	P	H
	*	5825	105.38	-	-	93.76	32.39	9.55	30.32	270	231	A	H
		5851	70.71	-49.21	119.92	59.05	32.41	9.58	30.33	270	231	P	H
		5856.4	66.8	-43.61	110.41	55.12	32.43	9.58	30.33	270	231	P	H
		5876.4	55.02	-49.14	104.16	43.29	32.46	9.61	30.34	270	231	P	H
		5935.6	53.98	-14.22	68.2	42.16	32.52	9.68	30.38	270	231	P	H
	*	5825	110.03	-	-	98.41	32.39	9.55	30.32	375	297	P	V
	*	5825	102.72	-	-	91.1	32.39	9.55	30.32	375	297	A	V
		5850.4	68.62	-52.67	121.29	56.96	32.41	9.58	30.33	375	297	P	V
		5855.8	63.67	-46.91	110.58	51.99	32.43	9.58	30.33	375	297	P	V
		5887.2	54.98	-41.16	96.14	43.26	32.46	9.62	30.36	375	297	P	V
		5931.4	51.58	-16.62	68.2	39.76	32.52	9.67	30.37	375	297	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 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 149 5745MHz		11490	47.11	-26.89	74	53.8	40.41	13.92	61.02	100	0	P	H
		17235	49.9	-18.3	68.2	49.83	41.71	17.88	59.52	100	0	P	H
		11490	46.57	-27.43	74	53.26	40.41	13.92	61.02	100	0	P	V
		17235	49.85	-18.35	68.2	49.78	41.71	17.88	59.52	100	0	P	V
802.11a CH 157 5785MHz		11570	46.53	-27.47	74	53.3	40.22	13.95	60.94	100	0	P	H
		17355	51.02	-17.18	68.2	50.01	42.32	18.06	59.37	100	0	P	H
		11570	46.34	-27.66	74	53.11	40.22	13.95	60.94	100	0	P	V
		17355	50.47	-17.73	68.2	49.46	42.32	18.06	59.37	100	0	P	V
802.11a CH 165 5825MHz		11650	48.59	-25.41	74	55.45	40.04	13.98	60.88	100	0	P	H
		17475	49.78	-18.42	68.2	47.89	42.93	18.19	59.23	100	0	P	H
		11650	47.18	-26.82	74	54.04	40.04	13.98	60.88	100	0	P	V
		17475	50.13	-18.07	68.2	48.24	42.93	18.19	59.23	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****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 149 5745MHz		5618.4	52.3	-15.9	68.2	41.19	32.14	9.18	30.21	263	232	P	H
		5698.8	56.99	-47.33	104.32	45.68	32.23	9.33	30.25	263	232	P	H
		5717.6	68.94	-41.19	110.13	57.56	32.27	9.37	30.26	263	232	P	H
		5724.2	76.27	-44.11	120.38	64.88	32.27	9.38	30.26	263	232	P	H
	*	5745	110.14	-	-	98.7	32.29	9.42	30.27	263	232	P	H
	*	5745	103.04	-	-	91.6	32.29	9.42	30.27	263	232	A	H
		5628.6	52.23	-15.97	68.2	41.11	32.14	9.2	30.22	400	296	P	V
		5697.2	55	-48.14	103.14	43.69	32.23	9.33	30.25	400	296	P	V
		5720	67.96	-42.84	110.8	56.58	32.27	9.37	30.26	400	296	P	V
		5724.6	74.33	-46.96	121.29	62.94	32.27	9.38	30.26	400	296	P	V
	*	5745	109.43	-	-	97.99	32.29	9.42	30.27	400	296	P	V
	*	5745	102.27	-	-	90.83	32.29	9.42	30.27	400	296	A	V



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)
802.11n HT20 CH 157 5785MHz		5628	51.58	-16.62	68.2	40.45	32.14	9.2	30.21	271	232	P	H
		5684	54.54	-38.86	93.4	43.25	32.23	9.31	30.25	271	232	P	H
		5702.4	52.8	-53.07	105.87	41.46	32.25	9.34	30.25	271	232	P	H
		5722.8	53.25	-63.93	117.18	41.86	32.27	9.38	30.26	271	232	P	H
	*	5785	111.04	-	-	99.52	32.33	9.49	30.3	271	232	P	H
	*	5785	103.87	-	-	92.35	32.33	9.49	30.3	271	232	A	H
		5851	53.05	-66.87	119.92	41.39	32.41	9.58	30.33	271	232	P	H
		5867.6	54.38	-52.89	107.27	42.69	32.43	9.6	30.34	271	232	P	H
		5897.8	53.73	-34.56	88.29	41.98	32.48	9.63	30.36	271	232	P	H
		5932.2	52.57	-15.63	68.2	40.75	32.52	9.67	30.37	271	232	P	H
		5630	52.26	-15.94	68.2	41.13	32.14	9.21	30.22	399	300	P	V
		5658.2	52.45	-21.84	74.29	41.23	32.19	9.26	30.23	399	300	P	V
		5705.2	52.35	-54.31	106.66	41.02	32.25	9.34	30.26	399	300	P	V
		5723.4	52.6	-65.95	118.55	41.21	32.27	9.38	30.26	399	300	P	V
	*	5785	108.6	-	-	97.08	32.33	9.49	30.3	399	300	P	V
	*	5785	101.43	-	-	89.91	32.33	9.49	30.3	399	300	A	V
		5850.6	51.04	-69.79	120.83	39.38	32.41	9.58	30.33	399	300	P	V
		5857.4	52.88	-57.25	110.13	41.19	32.43	9.59	30.33	399	300	P	V
		5902.6	52.3	-32.44	84.74	40.54	32.48	9.64	30.36	399	300	P	V
		5939.8	51.6	-16.6	68.2	39.76	32.54	9.68	30.38	399	300	P	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 165 5825MHz	*	5825	111.14	-	-	99.52	32.39	9.55	30.32	270	233	P	H
	*	5825	103.92	-	-	92.3	32.39	9.55	30.32	270	233	A	H
		5852.6	70.19	-46.08	116.27	58.53	32.41	9.58	30.33	270	233	P	H
		5856.2	67.44	-43.02	110.46	55.76	32.43	9.58	30.33	270	233	P	H
		5876.6	57.98	-46.03	104.01	46.25	32.46	9.61	30.34	270	233	P	H
		5941.2	53.95	-14.25	68.2	42.11	32.54	9.68	30.38	270	233	P	H
	*	5825	108.69	-	-	97.07	32.39	9.55	30.32	377	298	P	V
	*	5825	101.38	-	-	89.76	32.39	9.55	30.32	377	298	A	V
		5852.8	66.49	-49.33	115.82	54.83	32.41	9.58	30.33	377	298	P	V
		5855.2	62.61	-48.13	110.74	50.93	32.43	9.58	30.33	377	298	P	V
		5878.8	54.11	-48.27	102.38	42.38	32.46	9.61	30.34	377	298	P	V
		5925.2	52.92	-15.28	68.2	41.11	32.52	9.66	30.37	377	298	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 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)
802.11n HT20 CH 149 5745MHz		11490	47.26	-26.74	74	53.95	40.41	13.92	61.02	100	0	P	H
		17235	49.61	-18.59	68.2	49.54	41.71	17.88	59.52	100	0	P	H
		11490	45.78	-28.22	74	52.47	40.41	13.92	61.02	100	0	P	V
		17235	49.82	-18.38	68.2	49.75	41.71	17.88	59.52	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	47.13	-26.87	74	53.9	40.22	13.95	60.94	100	0	P	H
		17355	50.48	-17.72	68.2	49.47	42.32	18.06	59.37	100	0	P	H
		11570	46.89	-27.11	74	53.66	40.22	13.95	60.94	100	0	P	V
		17355	50.76	-17.44	68.2	49.75	42.32	18.06	59.37	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	46.91	-27.09	74	53.77	40.04	13.98	60.88	100	0	P	H
		17475	51.26	-16.94	68.2	49.37	42.93	18.19	59.23	100	0	P	H
		11650	46.95	-27.05	74	53.81	40.04	13.98	60.88	100	0	P	V
		17475	49.97	-18.23	68.2	48.08	42.93	18.19	59.23	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 151 5755MHz		5645.6	51.73	-16.47	68.2	40.55	32.17	9.23	30.22	252	238	P	H
		5697.2	67.56	-35.58	103.14	56.25	32.23	9.33	30.25	252	238	P	H
		5717.4	76.25	-33.82	110.07	64.89	32.25	9.37	30.26	252	238	P	H
		5724.2	80.77	-39.61	120.38	69.38	32.27	9.38	30.26	252	238	P	H
	*	5755	106.81	-	-	95.33	32.31	9.44	30.27	252	238	P	H
	*	5755	99.48	-	-	88	32.31	9.44	30.27	252	238	A	H
		5853.8	53.38	-60.16	113.54	41.7	32.43	9.58	30.33	252	238	P	H
		5855.4	55.05	-55.64	110.69	43.37	32.43	9.58	30.33	252	238	P	H
		5883.8	51.89	-46.78	98.67	40.17	32.46	9.62	30.36	252	238	P	H
		5937.4	51.31	-16.89	68.2	39.49	32.52	9.68	30.38	252	238	P	H
		5646.8	51.84	-16.36	68.2	40.65	32.17	9.24	30.22	385	296	P	V
		5696.6	64.68	-38.01	102.69	53.37	32.23	9.33	30.25	385	296	P	V
		5719.6	77.51	-33.18	110.69	66.13	32.27	9.37	30.26	385	296	P	V
		5721.4	79.42	-34.57	113.99	68.04	32.27	9.37	30.26	385	296	P	V
	*	5755	106.19	-	-	94.71	32.31	9.44	30.27	385	296	P	V
	*	5755	98.97	-	-	87.49	32.31	9.44	30.27	385	296	A	V
		5851	51.88	-68.04	119.92	40.22	32.41	9.58	30.33	385	296	P	V
		5855.2	53.15	-57.59	110.74	41.47	32.43	9.58	30.33	385	296	P	V
		5910	51.39	-27.88	79.27	39.61	32.5	9.65	30.37	385	296	P	V
		5936	51.17	-17.03	68.2	39.35	32.52	9.68	30.38	385	296	P	V



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)
802.11n HT40 CH 159 5795MHz		5602.2	51.67	-16.53	68.2	40.59	32.12	9.15	30.19	271	230	P	H
		5696.6	55.15	-47.54	102.69	43.84	32.23	9.33	30.25	271	230	P	H
		5716.8	60.31	-49.6	109.91	48.95	32.25	9.37	30.26	271	230	P	H
		5722.2	58.85	-56.97	115.82	47.46	32.27	9.38	30.26	271	230	P	H
	*	5795	107.78	-	-	96.22	32.35	9.51	30.3	271	230	P	H
	*	5795	100.03	-	-	88.47	32.35	9.51	30.3	271	230	A	H
		5851.2	66.3	-53.16	119.46	54.64	32.41	9.58	30.33	271	230	P	H
		5857	65.66	-44.58	110.24	53.97	32.43	9.59	30.33	271	230	P	H
		5888.8	59.07	-35.89	94.96	47.33	32.48	9.62	30.36	271	230	P	H
		5925.4	53.18	-15.02	68.2	41.37	32.52	9.66	30.37	271	230	P	H
		5645.6	50.45	-17.75	68.2	39.27	32.17	9.23	30.22	398	289	P	V
		5677	52.8	-35.42	88.22	41.53	32.21	9.29	30.23	398	289	P	V
		5711.4	53.04	-55.35	108.39	41.69	32.25	9.36	30.26	398	289	P	V
		5722.6	54.16	-62.57	116.73	42.77	32.27	9.38	30.26	398	289	P	V
	*	5795	105.56	-	-	94	32.35	9.51	30.3	398	289	P	V
	*	5795	98.23	-	-	86.67	32.35	9.51	30.3	398	289	A	V
		5851.6	63.22	-55.33	118.55	51.56	32.41	9.58	30.33	398	289	P	V
		5856.6	63.57	-46.78	110.35	51.88	32.43	9.59	30.33	398	289	P	V
		5875.4	56.93	-47.97	104.9	45.2	32.46	9.61	30.34	398	289	P	V
		5928	52.38	-15.82	68.2	40.56	32.52	9.67	30.37	398	289	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 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)
802.11n HT40 CH 151 5755MHz		11510	46.55	-27.45	74	53.21	40.4	13.93	60.99	100	0	P	H
		17265	49.81	-18.39	68.2	49.47	41.89	17.93	59.48	100	0	P	H
		11510	46.35	-27.65	74	53.01	40.4	13.93	60.99	100	0	P	V
		17265	49.45	-18.75	68.2	49.11	41.89	17.93	59.48	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	46.32	-27.68	74	53.11	40.18	13.96	60.93	100	0	P	H
		17385	51.13	-17.07	68.2	49.9	42.49	18.08	59.34	100	0	P	H
		11590	46.6	-27.4	74	53.39	40.18	13.96	60.93	100	0	P	V
		17385	50.24	-17.96	68.2	49.01	42.49	18.08	59.34	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 155 5775MHz		5629.4	58.16	-10.04	68.2	47.04	32.14	9.2	30.22	260	237	P	H
		5700	72.75	-32.45	105.2	61.43	32.23	9.34	30.25	260	237	P	H
		5717.2	77.83	-32.19	110.02	66.47	32.25	9.37	30.26	260	237	P	H
		5721.8	78.28	-36.62	114.9	66.89	32.27	9.38	30.26	260	237	P	H
	*	5775	104.06	-	-	92.55	32.33	9.47	30.29	260	237	P	H
	*	5775	96.43	-	-	84.92	32.33	9.47	30.29	260	237	A	H
		5852.2	73.39	-43.79	117.18	61.73	32.41	9.58	30.33	260	237	P	H
		5857.8	70.28	-39.73	110.01	58.6	32.43	9.59	30.34	260	237	P	H
		5876.2	66.34	-37.97	104.31	54.61	32.46	9.61	30.34	260	237	P	H
		5928.2	55.16	-13.04	68.2	43.34	32.52	9.67	30.37	260	237	P	H
		5647.8	55.24	-12.96	68.2	44.05	32.17	9.24	30.22	379	296	P	V
		5694	70.51	-30.27	100.78	59.21	32.23	9.32	30.25	379	296	P	V
		5716.6	75.4	-34.45	109.85	64.04	32.25	9.37	30.26	379	296	P	V
		5720.4	75.46	-36.25	111.71	64.08	32.27	9.37	30.26	379	296	P	V
	*	5775	103.28	-	-	91.77	32.33	9.47	30.29	379	296	P	V
	*	5775	95.73	-	-	84.22	32.33	9.47	30.29	379	296	A	V
		5851.6	69.82	-48.73	118.55	58.16	32.41	9.58	30.33	379	296	P	V
		5855.2	70.12	-40.62	110.74	58.44	32.43	9.58	30.33	379	296	P	V
		5876.2	62.73	-41.58	104.31	51	32.46	9.61	30.34	379	296	P	V
		5927.8	55.58	-12.62	68.2	43.76	32.52	9.67	30.37	379	296	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 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)
802.11ac VHT80 CH 155 5775MHz		11550	47.13	-26.87	74	53.87	40.27	13.95	60.96	100	0	P	H
		17325	51.2	-17	68.2	50.44	42.15	18.02	59.41	100	0	P	H
		11550	46.98	-27.02	74	53.72	40.27	13.95	60.96	100	0	P	V
		17325	51.11	-17.09	68.2	50.35	42.15	18.02	59.41	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 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)
802.11ac VHT80 LF		32.97	22	-18	40	30.94	23.01	0.7	32.65	-	-	P	H
		103.44	28.25	-15.25	43.5	43.13	16.37	1.24	32.57	-	-	P	H
		221.16	21.95	-24.05	46	36.15	16.44	1.78	32.54	-	-	P	H
		570.2	27.07	-18.93	46	30.45	26.19	2.82	32.56	-	-	P	H
		715.8	30.03	-15.97	46	31.77	27.44	3.15	32.45	-	-	P	H
		833.4	31.52	-14.48	46	30.97	29.01	3.41	32.05	100	0	P	H
		32.16	23.47	-16.53	40	32.06	23.37	0.69	32.65	-	-	P	V
		76.71	22	-18	40	40.29	13.15	1.06	32.59	-	-	P	V
		104.25	26.98	-16.52	43.5	41.79	16.44	1.24	32.57	-	-	P	V
		516.3	25.75	-20.25	46	31.35	24.14	2.68	32.55	-	-	P	V
		736.1	30.65	-15.35	46	31.8	27.95	3.17	32.39	-	-	P	V
		930	34.06	-11.94	46	31.34	30.35	3.59	31.44	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Band 4 - 5725~5850MHz****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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5627.6	53.13	-15.07	68.2	42	32.14	9.2	30.21	124	284	P	H
		5699.4	57.42	-47.34	104.76	46.11	32.23	9.33	30.25	124	284	P	H
		5719.8	71.6	-39.14	110.74	60.22	32.27	9.37	30.26	124	284	P	H
		5724.6	77.44	-43.85	121.29	66.05	32.27	9.38	30.26	124	284	P	H
	*	5745	111.9	-	-	100.46	32.29	9.42	30.27	124	284	P	H
	*	5745	104.72	-	-	93.28	32.29	9.42	30.27	124	284	A	H
		5636.2	51.96	-16.24	68.2	40.79	32.17	9.22	30.22	112	255	P	V
		5697.2	54.11	-49.03	103.14	42.8	32.23	9.33	30.25	112	255	P	V
		5719.6	68.44	-42.25	110.69	57.06	32.27	9.37	30.26	112	255	P	V
		5724.8	73.91	-47.83	121.74	62.52	32.27	9.38	30.26	112	255	P	V
	*	5745	108.09	-	-	96.65	32.29	9.42	30.27	112	255	P	V
	*	5745	100.94	-	-	89.5	32.29	9.42	30.27	112	255	A	V



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 157 5785MHz		5635.8	51.74	-16.46	68.2	40.57	32.17	9.22	30.22	124	285	P	H
		5698	52.98	-50.75	103.73	41.67	32.23	9.33	30.25	124	285	P	H
		5704	55.37	-50.95	106.32	44.03	32.25	9.34	30.25	124	285	P	H
		5724	54.31	-65.61	119.92	42.92	32.27	9.38	30.26	124	285	P	H
	*	5785	112.25	-	-	100.73	32.33	9.49	30.3	124	285	P	H
	*	5785	105.06	-	-	93.54	32.33	9.49	30.3	124	285	A	H
		5850.2	54.32	-67.42	121.74	42.66	32.41	9.58	30.33	124	285	P	H
		5855.8	53.42	-57.16	110.58	41.74	32.43	9.58	30.33	124	285	P	H
		5879.4	52.53	-49.4	101.93	40.8	32.46	9.61	30.34	124	285	P	H
		5925.8	51.69	-16.51	68.2	39.88	32.52	9.66	30.37	124	285	P	H
		5644.4	51.59	-16.61	68.2	40.41	32.17	9.23	30.22	100	261	P	V
		5672.8	51.55	-33.56	85.11	40.29	32.21	9.28	30.23	100	261	P	V
		5714.4	52.95	-56.28	109.23	41.6	32.25	9.36	30.26	100	261	P	V
		5720.4	51.53	-60.18	111.71	40.15	32.27	9.37	30.26	100	261	P	V
	*	5785	108.33	-	-	96.81	32.33	9.49	30.3	100	261	P	V
	*	5785	101.02	-	-	89.5	32.33	9.49	30.3	100	261	A	V
		5851.8	52.64	-65.46	118.1	40.98	32.41	9.58	30.33	100	261	P	V
		5856.4	51.59	-58.82	110.41	39.91	32.43	9.58	30.33	100	261	P	V
		5886.6	51.77	-44.82	96.59	40.05	32.46	9.62	30.36	100	261	P	V
		5943.8	50.91	-17.29	68.2	39.06	32.54	9.69	30.38	100	261	P	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11a CH 165 5825MHz	*	5825	111.86	-	-	100.24	32.39	9.55	30.32	100	284	P	H
	*	5825	104.54	-	-	92.92	32.39	9.55	30.32	100	284	A	H
		5852.2	68.25	-48.93	117.18	56.59	32.41	9.58	30.33	100	284	P	H
		5857.8	63.36	-46.65	110.01	51.68	32.43	9.59	30.34	100	284	P	H
		5876.2	53.87	-50.44	104.31	42.14	32.46	9.61	30.34	100	284	P	H
		5929.6	52.78	-15.42	68.2	40.96	32.52	9.67	30.37	100	284	P	H
	*	5825	107.99	-	-	96.37	32.39	9.55	30.32	100	263	P	V
	*	5825	100.77	-	-	89.15	32.39	9.55	30.32	100	263	A	V
		5850	68.13	-54.07	122.2	56.47	32.41	9.58	30.33	100	263	P	V
		5855	62.24	-48.56	110.8	50.56	32.43	9.58	30.33	100	263	P	V
		5876.2	53.46	-50.85	104.31	41.73	32.46	9.61	30.34	100	263	P	V
		5940.6	51.42	-16.78	68.2	39.58	32.54	9.68	30.38	100	263	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		11490	47.99	-26.01	74	54.68	40.41	13.92	61.02	100	0	P	H
		17235	50.08	-18.12	68.2	50.01	41.71	17.88	59.52	100	0	P	H
		11490	47.04	-26.96	74	53.73	40.41	13.92	61.02	100	0	P	V
		17235	49.53	-18.67	68.2	49.46	41.71	17.88	59.52	100	0	P	V
802.11a CH 157 5785MHz		11570	48.14	-25.86	74	54.91	40.22	13.95	60.94	100	0	P	H
		17355	50.55	-17.65	68.2	49.54	42.32	18.06	59.37	100	0	P	H
		11570	46.31	-27.69	74	53.08	40.22	13.95	60.94	100	0	P	V
		17355	51.53	-16.67	68.2	50.52	42.32	18.06	59.37	100	0	P	V
802.11a CH 165 5825MHz		11650	47.79	-26.21	74	54.65	40.04	13.98	60.88	100	0	P	H
		17475	51.02	-17.18	68.2	49.13	42.93	18.19	59.23	100	0	P	H
		11650	48.71	-25.29	74	55.57	40.04	13.98	60.88	100	0	P	V
		17475	50.65	-17.55	68.2	48.76	42.93	18.19	59.23	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****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 149 5745MHz		5645.8	53.35	-14.85	68.2	42.17	32.17	9.23	30.22	124	284	P	H
		5698.6	58.65	-45.52	104.17	47.34	32.23	9.33	30.25	124	284	P	H
		5719.6	72.15	-38.54	110.69	60.77	32.27	9.37	30.26	124	284	P	H
		5725	76.91	-45.29	122.2	65.52	32.27	9.38	30.26	124	284	P	H
	*	5745	111.35	-	-	99.91	32.29	9.42	30.27	124	284	P	H
	*	5745	103.79	-	-	92.35	32.29	9.42	30.27	124	284	A	H
		5614.6	51.25	-16.95	68.2	40.16	32.12	9.18	30.21	100	262	P	V
		5696.8	55.54	-47.3	102.84	44.23	32.23	9.33	30.25	100	262	P	V
		5719.8	68.7	-42.04	110.74	57.32	32.27	9.37	30.26	100	262	P	V
		5725	73.19	-49.01	122.2	61.8	32.27	9.38	30.26	100	262	P	V
	*	5745	106.73	-	-	95.29	32.29	9.42	30.27	100	262	P	V
	*	5745	99.47	-	-	88.03	32.29	9.42	30.27	100	262	A	V



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)
802.11n HT20 CH 157 5785MHz		5620.6	52.05	-16.15	68.2	40.93	32.14	9.19	30.21	100	284	P	H
		5699.2	52.82	-51.79	104.61	41.51	32.23	9.33	30.25	100	284	P	H
		5710.6	53.86	-54.31	108.17	42.52	32.25	9.35	30.26	100	284	P	H
		5721	54.32	-58.76	113.08	42.94	32.27	9.37	30.26	100	284	P	H
	*	5785	110.83	-	-	99.31	32.33	9.49	30.3	100	284	P	H
	*	5785	103.61	-	-	92.09	32.33	9.49	30.3	100	284	A	H
		5851.8	53.8	-64.3	118.1	42.14	32.41	9.58	30.33	100	284	P	H
		5867.2	54.53	-52.85	107.38	42.84	32.43	9.6	30.34	100	284	P	H
		5916	53.59	-21.25	74.84	41.81	32.5	9.65	30.37	100	284	P	H
		5929.2	52.97	-15.23	68.2	41.15	32.52	9.67	30.37	100	284	P	H
		5649.2	51.57	-16.63	68.2	40.38	32.17	9.24	30.22	100	261	P	V
		5692	52.61	-46.69	99.3	41.31	32.23	9.32	30.25	100	261	P	V
		5709	52.57	-55.15	107.72	41.23	32.25	9.35	30.26	100	261	P	V
		5723.8	51.97	-67.49	119.46	40.58	32.27	9.38	30.26	100	261	P	V
	*	5785	106.83	-	-	95.31	32.33	9.49	30.3	100	261	P	V
	*	5785	99.68	-	-	88.16	32.33	9.49	30.3	100	261	A	V
		5850.8	51.63	-68.75	120.38	39.97	32.41	9.58	30.33	100	261	P	V
		5872.2	52	-53.98	105.98	40.28	32.46	9.6	30.34	100	261	P	V
		5920.4	51.54	-20.05	71.59	39.75	32.5	9.66	30.37	100	261	P	V
		5931	51.85	-16.35	68.2	40.03	32.52	9.67	30.37	100	261	P	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 165 5825MHz	*	5825	110.38	-	-	98.76	32.39	9.55	30.32	100	285	P	H
	*	5825	103.11	-	-	91.49	32.39	9.55	30.32	100	285	A	H
		5850	71.85	-50.35	122.2	60.19	32.41	9.58	30.33	100	285	P	H
		5857	66.97	-43.27	110.24	55.28	32.43	9.59	30.33	100	285	P	H
		5878.8	54.65	-47.73	102.38	42.92	32.46	9.61	30.34	100	285	P	H
		5926.6	53.07	-15.13	68.2	41.25	32.52	9.67	30.37	100	285	P	H
	*	5825	107.1	-	-	95.48	32.39	9.55	30.32	106	255	P	V
	*	5825	99.79	-	-	88.17	32.39	9.55	30.32	106	255	A	V
		5850.2	66.36	-55.38	121.74	54.7	32.41	9.58	30.33	106	255	P	V
		5856.8	60.34	-49.96	110.3	48.65	32.43	9.59	30.33	106	255	P	V
		5913.8	52.79	-23.67	76.46	41.01	32.5	9.65	30.37	106	255	P	V
		5932.4	51.72	-16.48	68.2	39.9	32.52	9.67	30.37	106	255	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 149 5745MHz		11490	46.72	-27.28	74	53.41	40.41	13.92	61.02	100	0	P	H
		17235	49.33	-18.87	68.2	49.26	41.71	17.88	59.52	100	0	P	H
		11490	47.17	-26.83	74	53.86	40.41	13.92	61.02	100	0	P	V
		17235	50.69	-17.51	68.2	50.62	41.71	17.88	59.52	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	46.86	-27.14	74	53.63	40.22	13.95	60.94	100	0	P	H
		17355	50.93	-17.27	68.2	49.92	42.32	18.06	59.37	100	0	P	H
		11570	46.2	-27.8	74	52.97	40.22	13.95	60.94	100	0	P	V
		17355	50.76	-17.44	68.2	49.75	42.32	18.06	59.37	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	48.15	-25.85	74	55.01	40.04	13.98	60.88	100	0	P	H
		17475	50.89	-17.31	68.2	49	42.93	18.19	59.23	100	0	P	H
		11650	47.33	-26.67	74	54.19	40.04	13.98	60.88	100	0	P	V
		17475	50.03	-18.17	68.2	48.14	42.93	18.19	59.23	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 151 5755MHz		5649.8	53.55	-14.65	68.2	42.34	32.19	9.24	30.22	120	284	P	H
		5697.2	67.55	-35.59	103.14	56.24	32.23	9.33	30.25	120	284	P	H
		5720	77.97	-32.83	110.8	66.59	32.27	9.37	30.26	120	284	P	H
		5722.8	78.77	-38.41	117.18	67.38	32.27	9.38	30.26	120	284	P	H
	*	5755	107.92	-	-	96.44	32.31	9.44	30.27	120	284	P	H
	*	5755	100.55	-	-	89.07	32.31	9.44	30.27	120	284	A	H
		5850.2	54.07	-67.67	121.74	42.41	32.41	9.58	30.33	120	284	P	H
		5857.4	53.39	-56.74	110.13	41.7	32.43	9.59	30.33	120	284	P	H
		5895	52.45	-37.91	90.36	40.7	32.48	9.63	30.36	120	284	P	H
		5936.4	51.44	-16.76	68.2	39.62	32.52	9.68	30.38	120	284	P	H
		5634.4	51.41	-16.79	68.2	40.25	32.17	9.21	30.22	100	261	P	V
		5699.6	63.45	-41.46	104.91	52.14	32.23	9.33	30.25	100	261	P	V
		5719	72.05	-38.47	110.52	60.67	32.27	9.37	30.26	100	261	P	V
		5720.8	76.35	-36.27	112.62	64.97	32.27	9.37	30.26	100	261	P	V
	*	5755	103.71	-	-	92.23	32.31	9.44	30.27	100	261	P	V
	*	5755	96.43	-	-	84.95	32.31	9.44	30.27	100	261	A	V
		5852	53.12	-64.52	117.64	41.46	32.41	9.58	30.33	100	261	P	V
		5869.6	52.69	-54.02	106.71	41	32.43	9.6	30.34	100	261	P	V
		5918	51.24	-22.12	73.36	39.45	32.5	9.66	30.37	100	261	P	V
		5933.2	50.83	-17.37	68.2	39.01	32.52	9.67	30.37	100	261	P	V



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)
802.11n HT40 CH 159 5795MHz		5635.2	51.37	-16.83	68.2	40.2	32.17	9.22	30.22	100	284	P	H
		5695.8	53.9	-48.2	102.1	42.59	32.23	9.33	30.25	100	284	P	H
		5717	61.45	-48.51	109.96	50.09	32.25	9.37	30.26	100	284	P	H
		5720.4	58.36	-53.35	111.71	46.98	32.27	9.37	30.26	100	284	P	H
	*	5795	107.49	-	-	95.93	32.35	9.51	30.3	100	284	P	H
	*	5795	100.15	-	-	88.59	32.35	9.51	30.3	100	284	A	H
		5850.4	66.99	-54.3	121.29	55.33	32.41	9.58	30.33	100	284	P	H
		5857	64.54	-45.7	110.24	52.85	32.43	9.59	30.33	100	284	P	H
		5890.8	54.63	-38.84	93.47	42.89	32.48	9.62	30.36	100	284	P	H
		5939.4	52.89	-15.31	68.2	41.05	32.54	9.68	30.38	100	284	P	H
		5645.2	51.34	-16.86	68.2	40.16	32.17	9.23	30.22	100	259	P	V
		5691	53.41	-45.15	98.56	42.11	32.23	9.32	30.25	100	259	P	V
		5716.6	55.85	-54	109.85	44.49	32.25	9.37	30.26	100	259	P	V
		5724.4	53.82	-67.01	120.83	42.43	32.27	9.38	30.26	100	259	P	V
	*	5795	103.22	-	-	91.66	32.35	9.51	30.3	100	259	P	V
	*	5795	95.85	-	-	84.29	32.35	9.51	30.3	100	259	A	V
		5851	63.02	-56.9	119.92	51.36	32.41	9.58	30.33	100	259	P	V
		5856.8	61.45	-48.85	110.3	49.76	32.43	9.59	30.33	100	259	P	V
		5876.6	54.97	-49.04	104.01	43.24	32.46	9.61	30.34	100	259	P	V
		5930.2	52.05	-16.15	68.2	40.23	32.52	9.67	30.37	100	259	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		11510	46.87	-27.13	74	53.53	40.4	13.93	60.99	100	0	P	H
		17265	49.96	-18.24	68.2	49.62	41.89	17.93	59.48	100	0	P	H
		11510	46.79	-27.21	74	53.45	40.4	13.93	60.99	100	0	P	V
		17265	49.62	-18.58	68.2	49.28	41.89	17.93	59.48	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	46.41	-27.59	74	53.2	40.18	13.96	60.93	100	0	P	H
		17385	50.1	-18.1	68.2	48.87	42.49	18.08	59.34	100	0	P	H
		11590	46.03	-27.97	74	52.82	40.18	13.96	60.93	100	0	P	V
		17385	50.72	-17.48	68.2	49.49	42.49	18.08	59.34	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 155 5775MHz		5648.6	58.87	-9.33	68.2	47.68	32.17	9.24	30.22	100	283	P	H
		5698.2	76.22	-27.65	103.87	64.91	32.23	9.33	30.25	100	283	P	H
		5719.2	82.95	-27.63	110.58	71.57	32.27	9.37	30.26	100	283	P	H
		5722.4	81.09	-35.18	116.27	69.7	32.27	9.38	30.26	100	283	P	H
	*	5775	105.97	-	-	94.46	32.33	9.47	30.29	100	283	P	H
	*	5775	98.53	-	-	87.02	32.33	9.47	30.29	100	283	A	H
		5852.6	75.56	-40.71	116.27	63.9	32.41	9.58	30.33	100	283	P	H
		5856.2	74.91	-35.55	110.46	63.23	32.43	9.58	30.33	100	283	P	H
		5876	68.2	-36.26	104.46	56.47	32.46	9.61	30.34	100	283	P	H
		5925.6	57.47	-10.73	68.2	45.66	32.52	9.66	30.37	100	283	P	H
		5649.6	54.42	-13.78	68.2	43.21	32.19	9.24	30.22	100	256	P	V
		5698.8	71.92	-32.4	104.32	60.61	32.23	9.33	30.25	100	256	P	V
		5719.6	76.55	-34.14	110.69	65.17	32.27	9.37	30.26	100	256	P	V
		5720.6	76.26	-35.91	112.17	64.88	32.27	9.37	30.26	100	256	P	V
	*	5775	101.81	-	-	90.3	32.33	9.47	30.29	100	256	P	V
	*	5775	94.25	-	-	82.74	32.33	9.47	30.29	100	256	A	V
		5852	74.88	-42.76	117.64	63.22	32.41	9.58	30.33	100	256	P	V
		5855.2	73.7	-37.04	110.74	62.02	32.43	9.58	30.33	100	256	P	V
		5876.2	65.12	-39.19	104.31	53.39	32.46	9.61	30.34	100	256	P	V
		5925.2	55.17	-13.03	68.2	43.36	32.52	9.66	30.37	100	256	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		11550	46.66	-27.34	74	53.4	40.27	13.95	60.96	100	0	P	H
		17325	51.27	-16.93	68.2	50.51	42.15	18.02	59.41	100	0	P	H
		11550	46.47	-27.53	74	53.21	40.27	13.95	60.96	100	0	P	V
		17325	50.94	-17.26	68.2	50.18	42.15	18.02	59.41	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 Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		35.94	20.39	-19.61	40	30.68	21.61	0.73	32.64	-	-	P	H
		104.79	28.21	-15.29	43.5	42.98	16.48	1.24	32.57	-	-	P	H
		226.29	22.95	-23.05	46	36.52	17.05	1.8	32.54	-	-	P	H
		555.5	27.33	-18.67	46	30.94	25.99	2.78	32.56	-	-	P	H
		726.3	31.27	-14.73	46	32.67	27.74	3.16	32.42	-	-	P	H
		958.7	34.04	-11.96	46	30.17	31.15	3.66	31.2	100	0	P	H
		32.7	23.02	-16.98	40	31.84	23.13	0.7	32.65	-	-	P	V
		104.25	27.63	-15.87	43.5	42.44	16.44	1.24	32.57	-	-	P	V
		186.87	19.42	-24.08	43.5	35.2	14.9	1.65	32.54	-	-	P	V
		614.3	28.36	-17.64	46	31.72	26.12	2.94	32.56	-	-	P	V
		874.7	33.3	-12.7	46	32.33	29.11	3.48	31.83	-	-	P	V
		941.9	33.6	-12.4	46	30.22	30.86	3.62	31.34	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	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

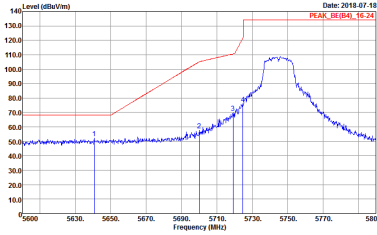
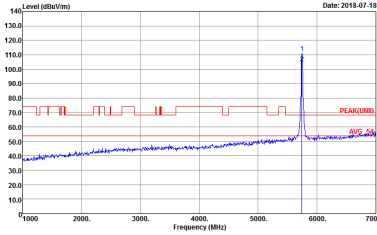
Test Engineer :	Bill Chang, Kay Hou, Lance Chiang	Temperature :	22~26°C
		Relative Humidity :	52~58%

Note symbol

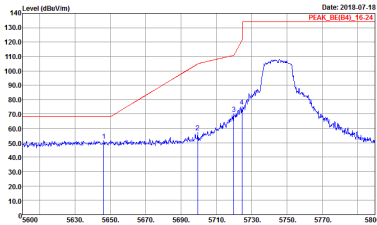
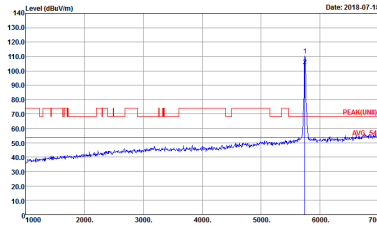
-L	Low channel location
-R	High channel location



Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_UNII 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

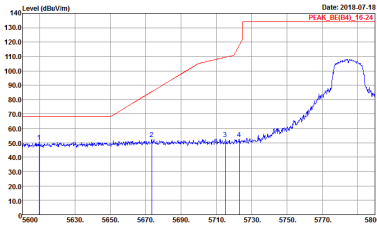
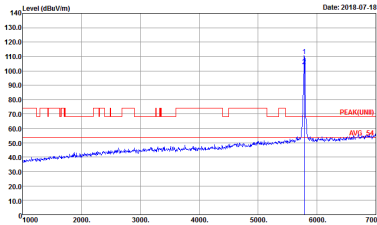
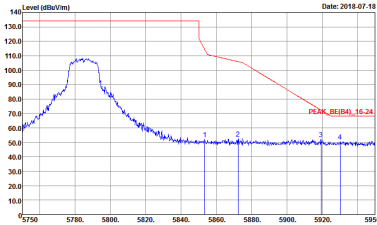


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

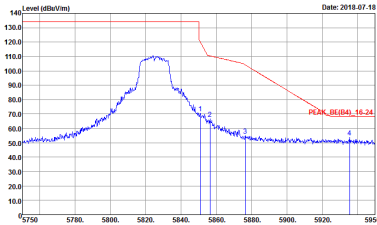
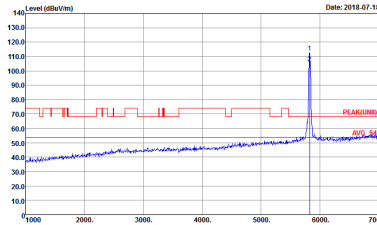


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

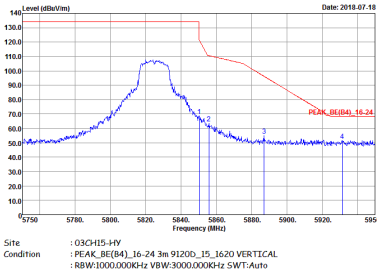
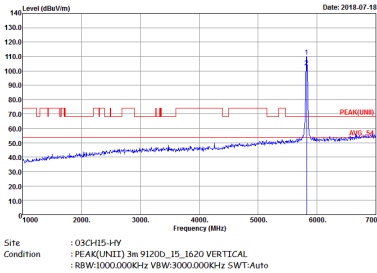


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



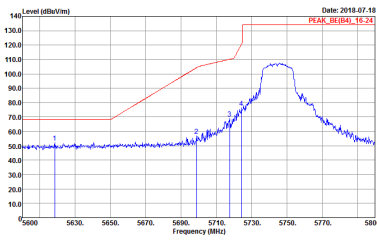
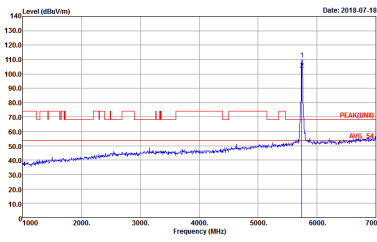
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

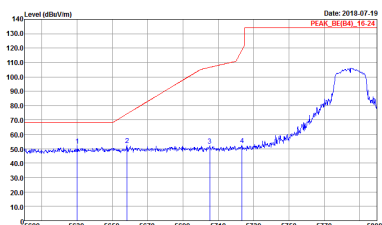
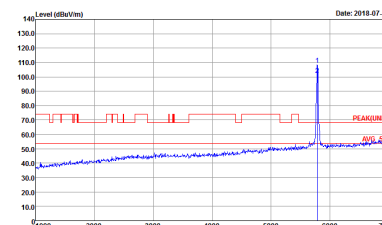
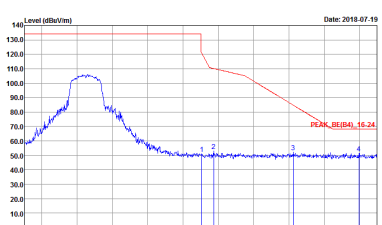
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-14V Condition : PEAK_RE(84)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-14V Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



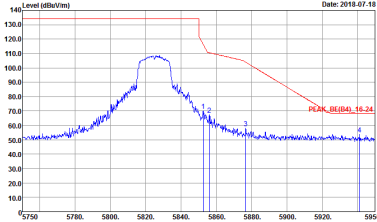
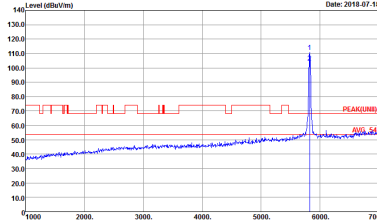
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



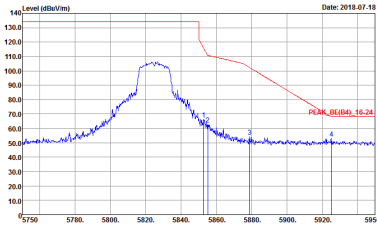
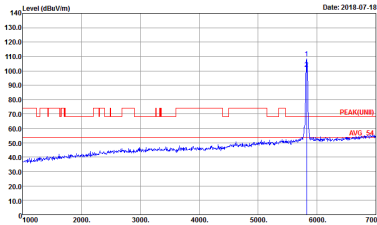
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

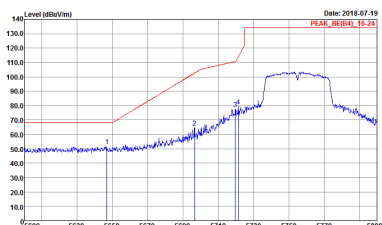
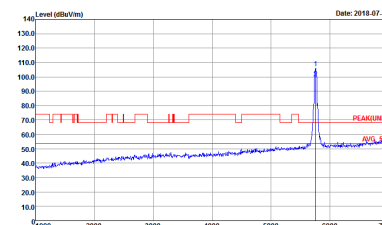
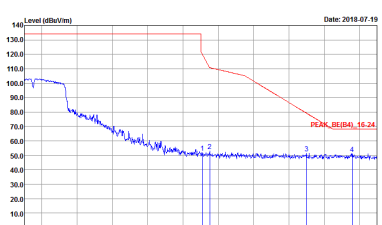


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

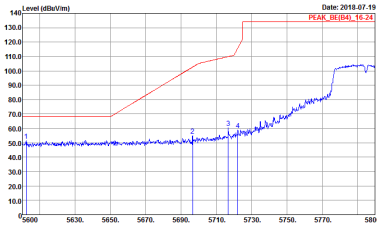
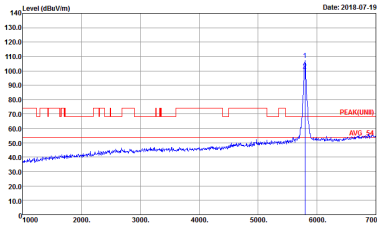
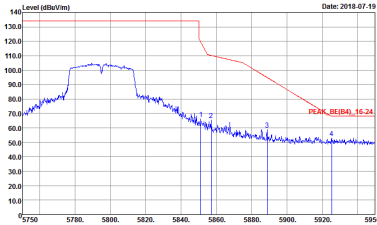


Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



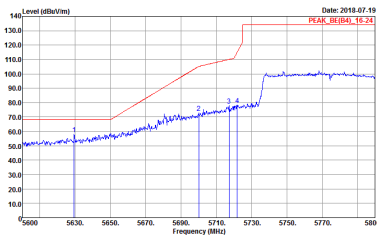
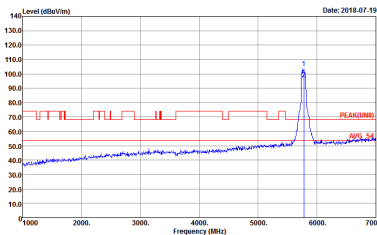
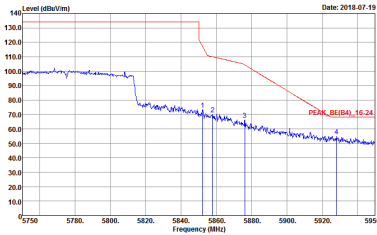
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



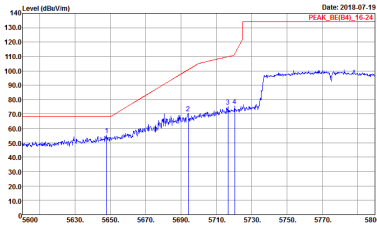
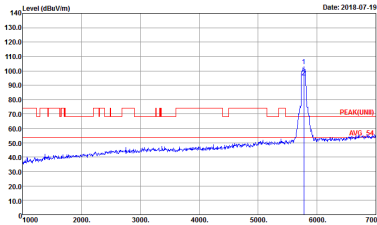
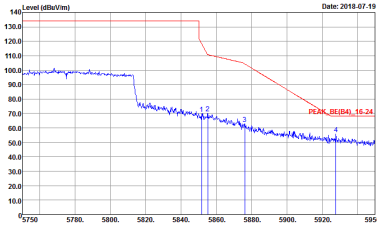
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



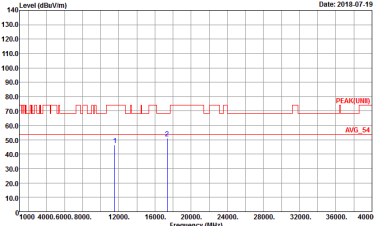
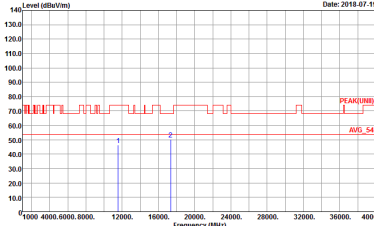
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



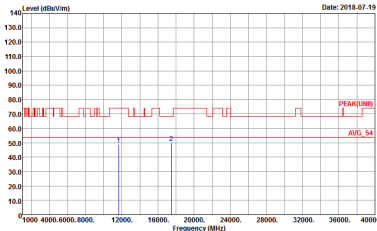
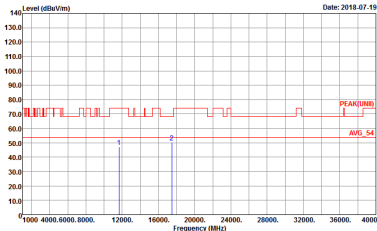
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

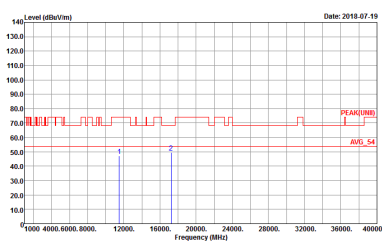
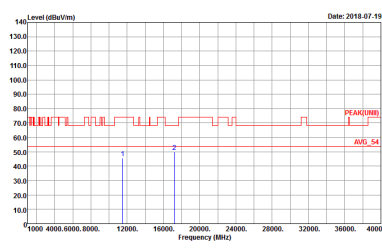


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

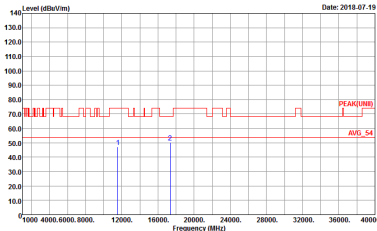
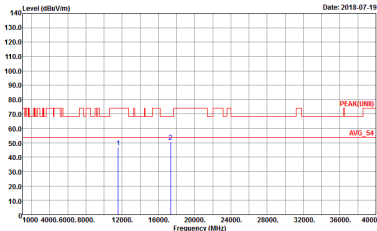


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

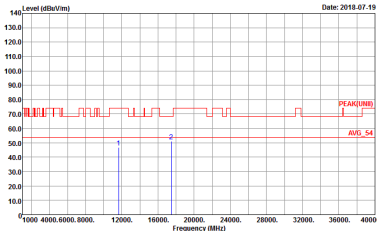
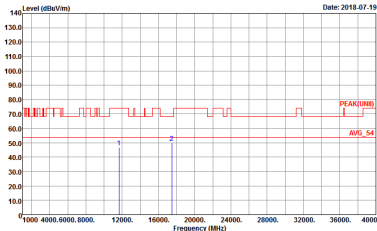
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-14V Condition : PEAK(LINE1) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-14V Condition : PEAK(LINE1) 3m 91200_15_1620 VERTICAL Detector : Peak

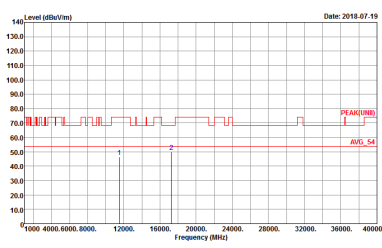
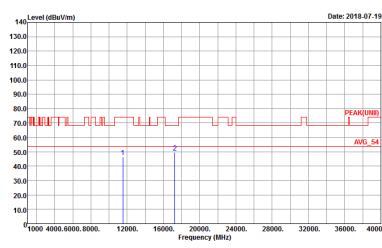


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

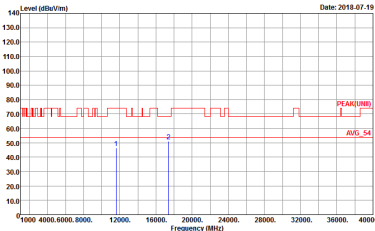
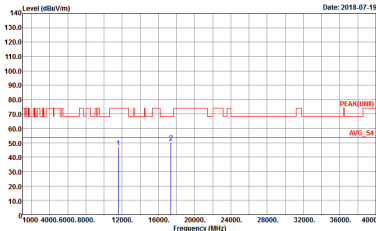


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

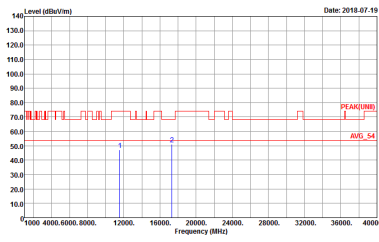
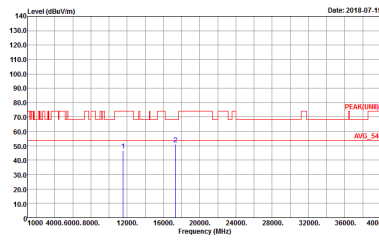
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-14V Condition : PEAK(LINE) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-14V Condition : PEAK(LINE) 3m 91200_15_1620 VERTICAL Detector : Peak

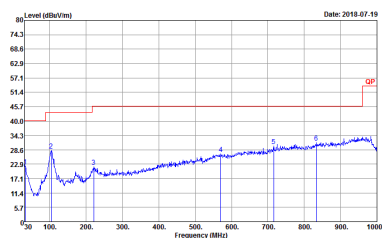
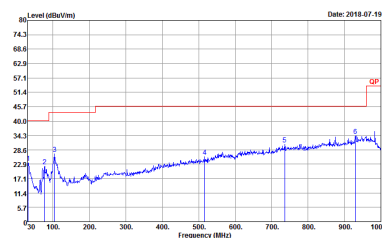


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

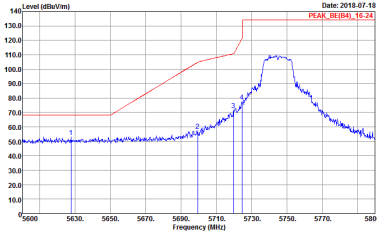
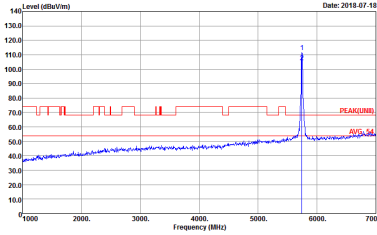
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-14V Condition : PEAK(UNB) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-14V Condition : PEAK(UNB) 3m 91200_15_1620 VERTICAL Detector : Peak

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

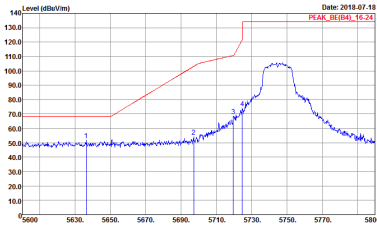
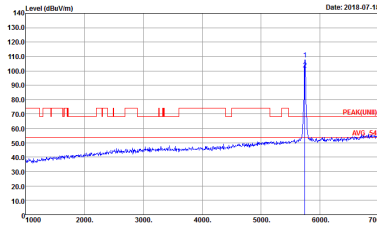
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m BIL06_15_41912 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : QP 3m BIL06_15_41912 VERTICAL Detector : Peak



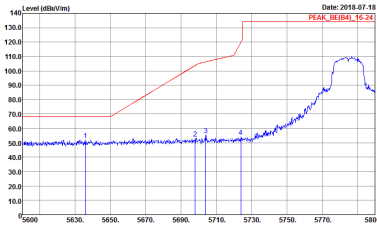
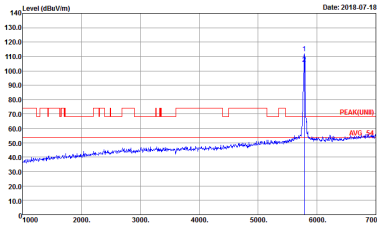
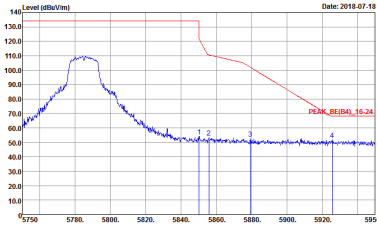
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

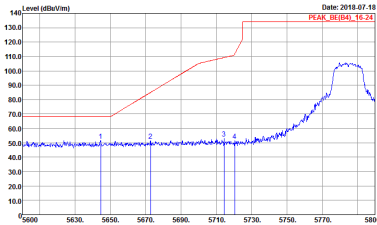
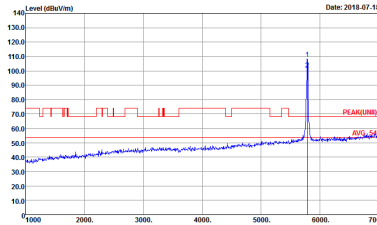
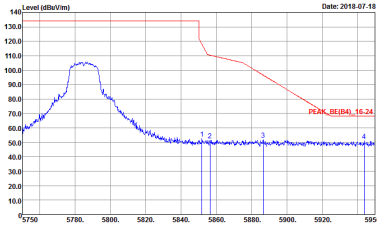


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

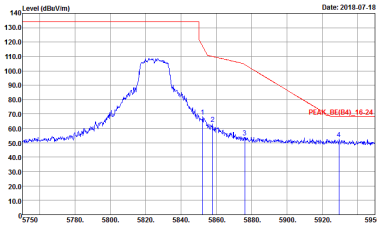
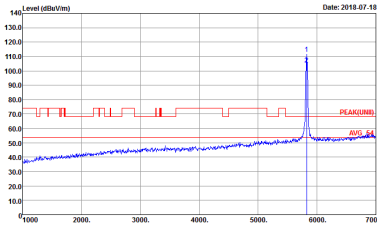


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

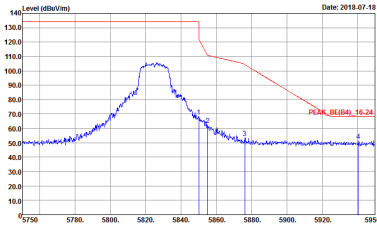
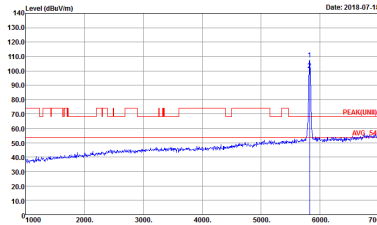


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



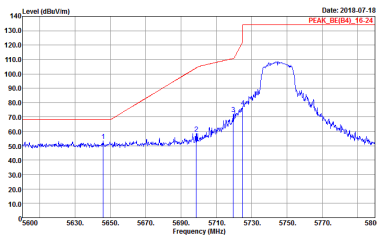
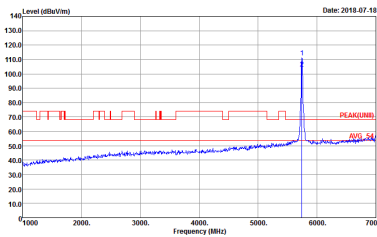
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



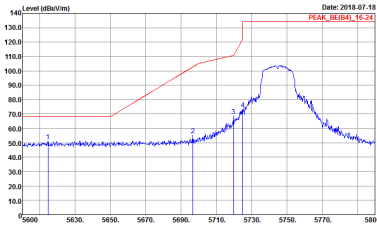
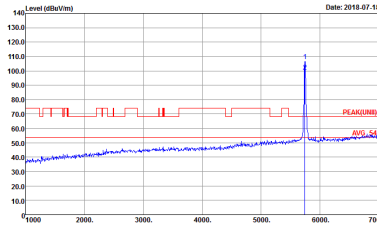
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



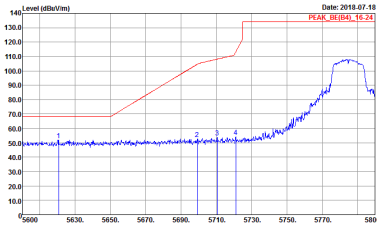
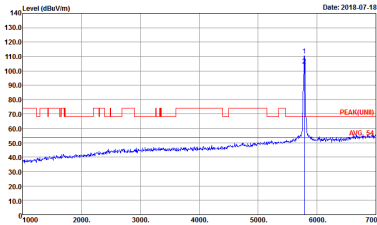
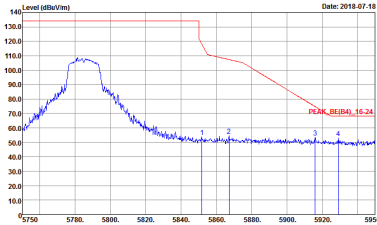
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-14V Condition : PEAK_RE(84)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-14V Condition : PEAK(UNIT)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

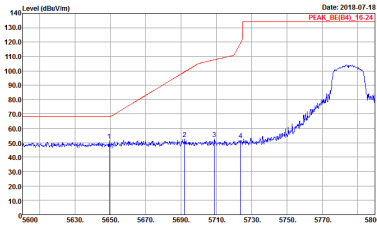
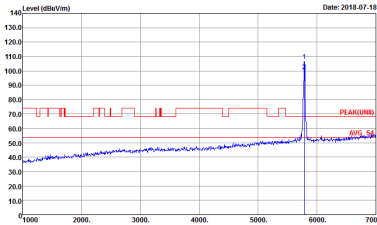
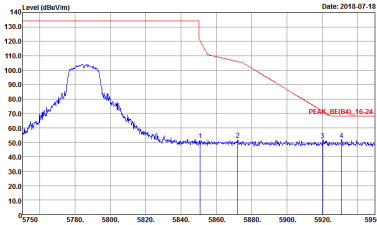


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

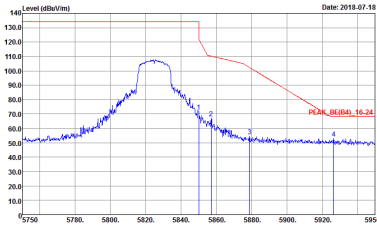
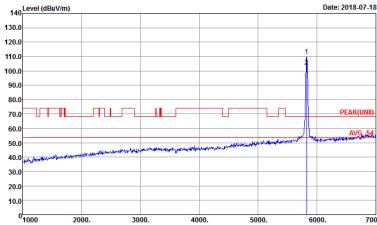


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

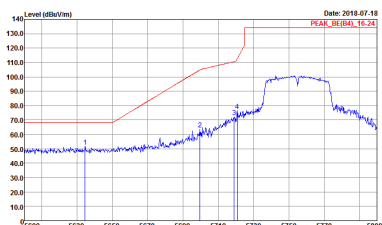
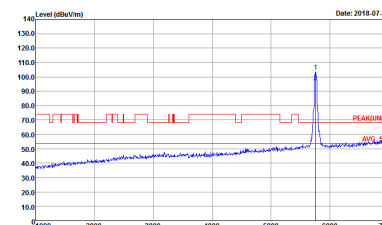
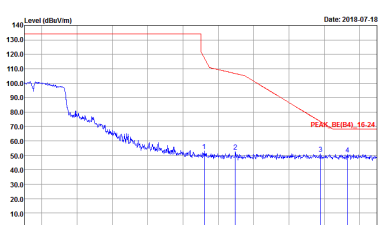


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

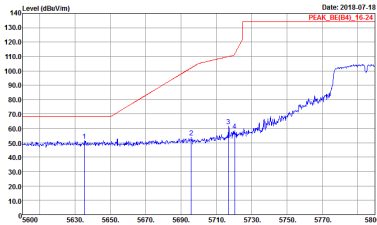
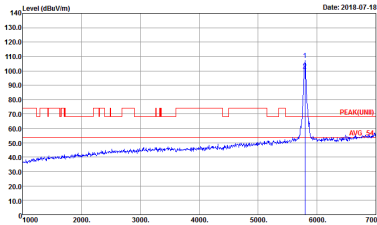
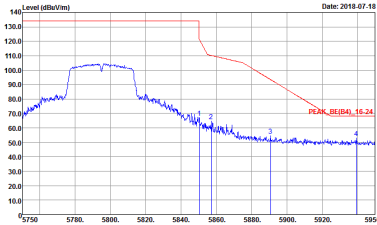


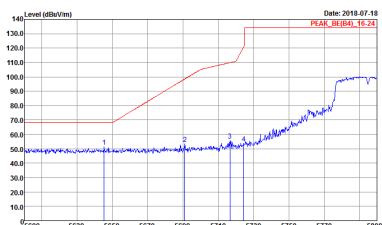
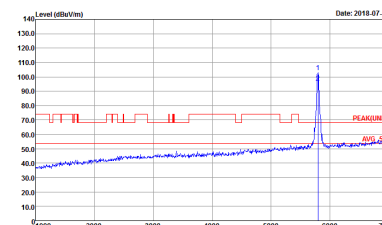
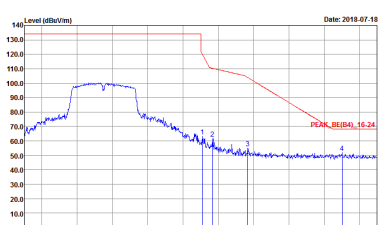
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site Condition : 03CH15-HY : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

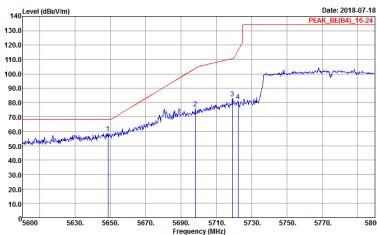
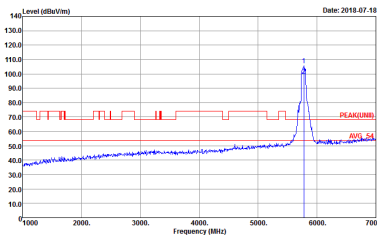
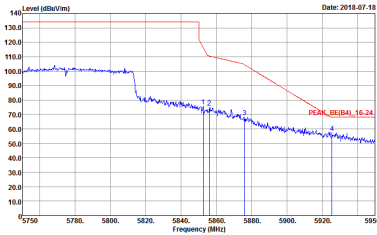


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

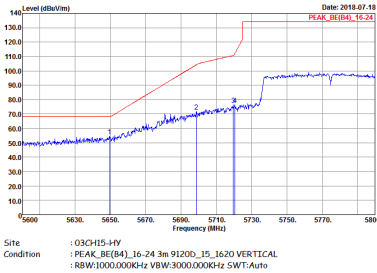
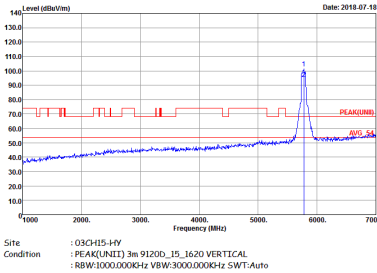
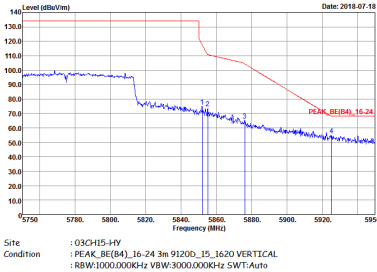
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK(UNIT) 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site Condition : 03CH15-HY : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

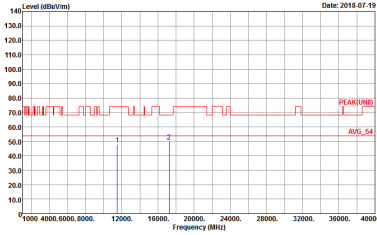
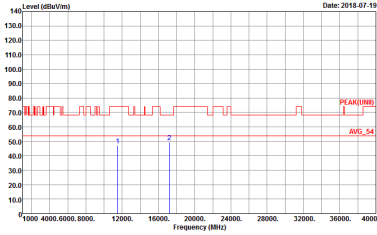
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



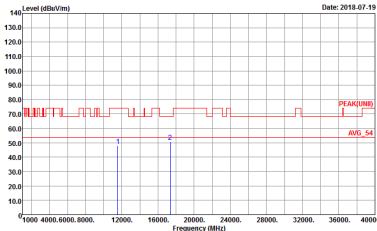
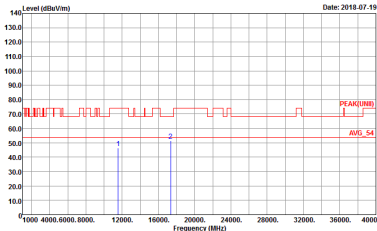
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak		
		Left blank



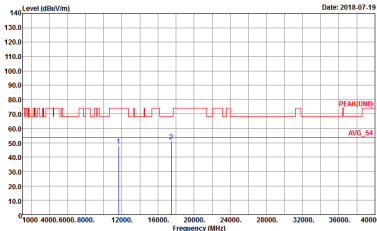
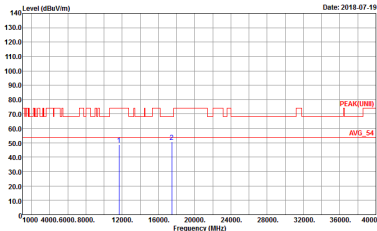
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

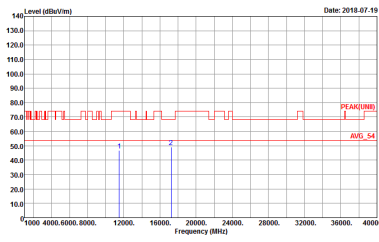
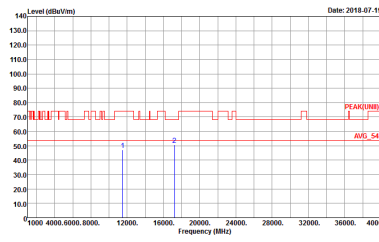


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

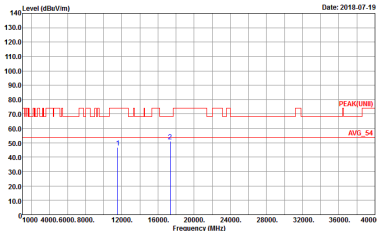
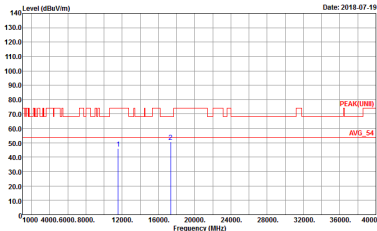


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

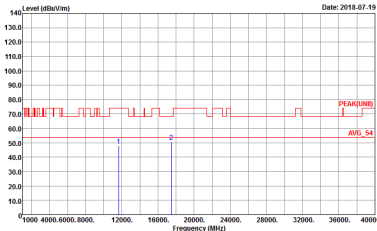
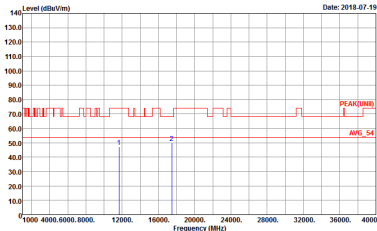
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-14V Condition : PEAK(LINE) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-14V Condition : PEAK(LINE) 3m 91200_15_1620 VERTICAL Detector : Peak

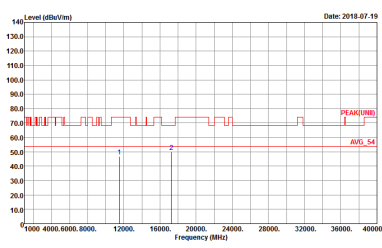
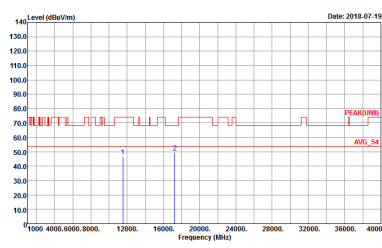


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

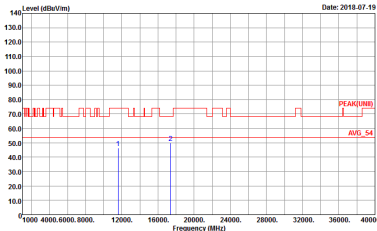
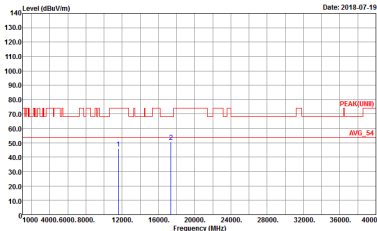


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

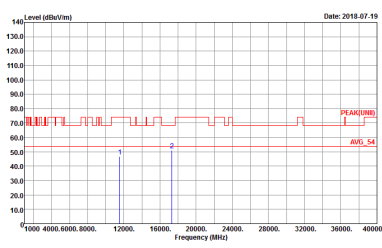
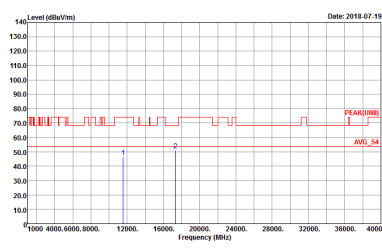
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-14V Condition : PEAK(UNB) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-14V Condition : PEAK(UNB) 3m 91200_15_1620 VERTICAL Detector : Peak

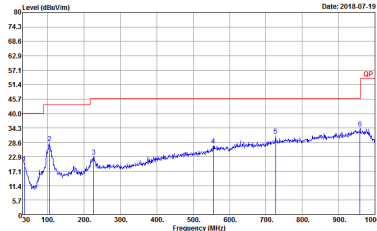
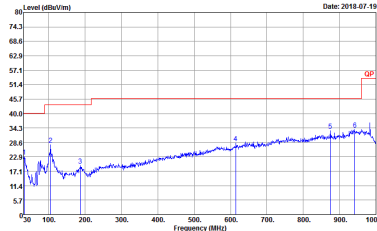


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak

Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH15-14V Condition : PEAK(LINE) 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-14V Condition : PEAK(LINE) 3m 91200_15_1620 VERTICAL Detector : Peak

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

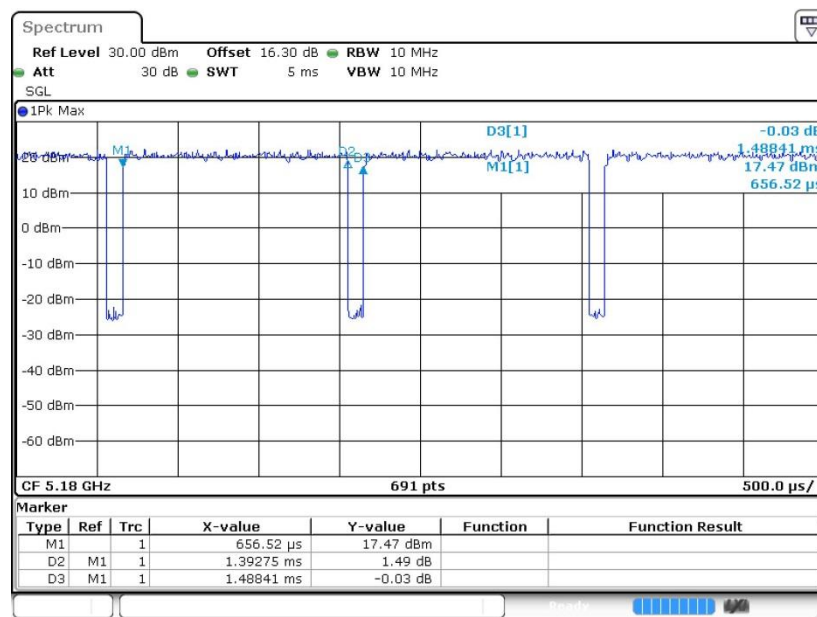
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	93.57	1392.75	0.72	1kHz	0.29
2	802.11a	93.20	1391.30	0.72	1kHz	0.31
1	5GHz 802.11n HT20	93.17	1305.80	0.77	1kHz	0.31
2	5GHz 802.11n HT20	93.26	1304.35	0.77	1kHz	0.30
1	5GHz 802.11n HT40	86.80	647.83	1.54	3kHz	0.61
2	5GHz 802.11n HT40	86.82	649.28	1.54	3kHz	0.61
1	5GHz 802.11ac VHT20	93.02	1313.04	0.76	1kHz	0.31
2	5GHz 802.11ac VHT20	92.82	1311.59	0.76	1kHz	0.32
1	5GHz 802.11ac VHT40	86.90	653.62	1.53	3kHz	0.61
2	5GHz 802.11ac VHT40	86.87	652.17	1.53	3kHz	0.61
1	5GHz 802.11ac VHT80	76.71	324.64	3.08	10kHz	1.15
2	5GHz 802.11ac VHT80	76.63	323.19	3.09	10kHz	1.16

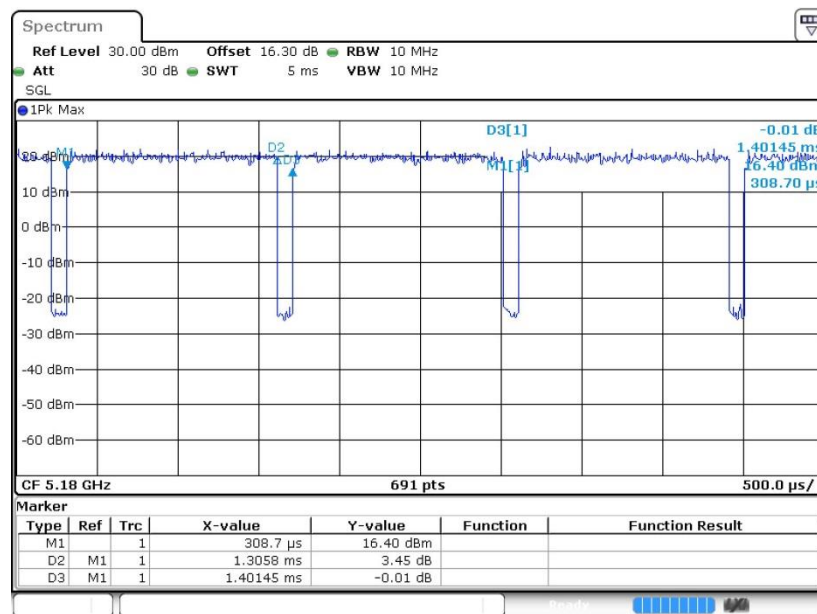
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802.11a



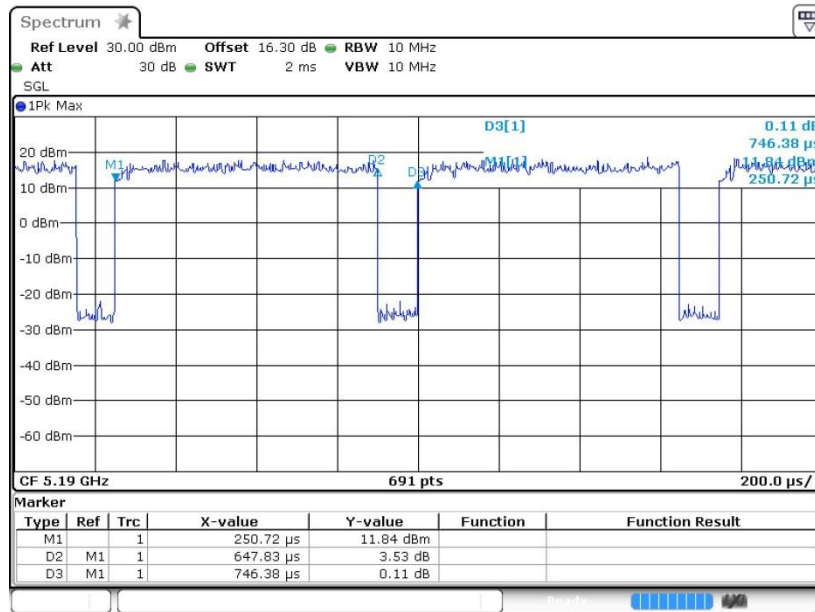
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802.11n HT20



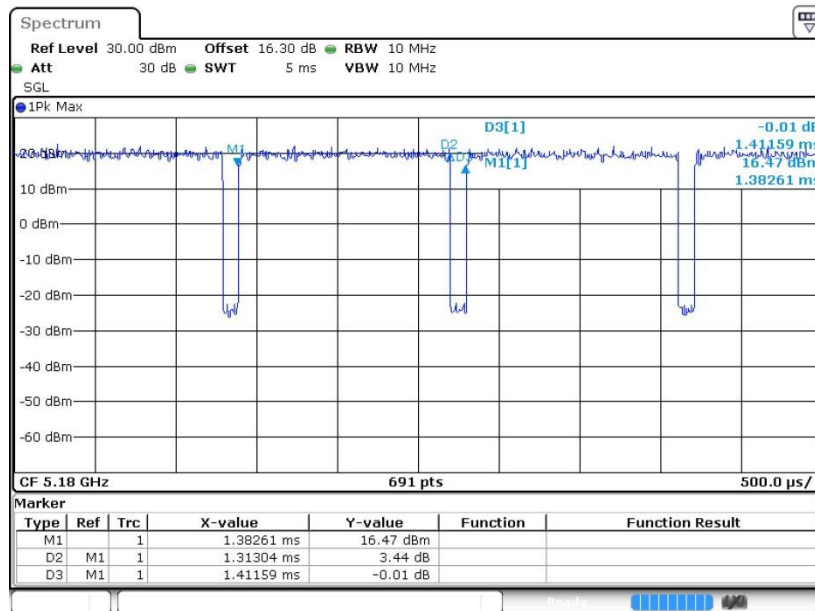
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802.11n HT40



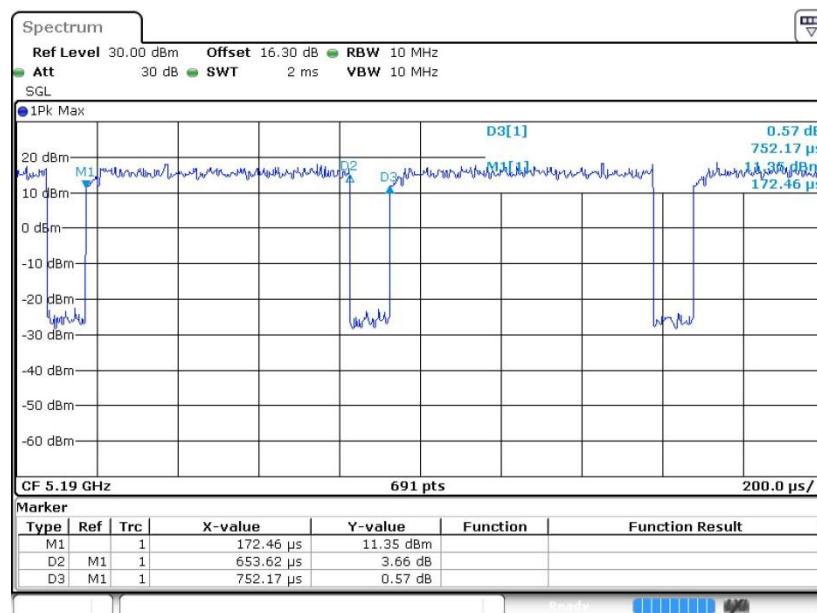
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802.11ac VHT20



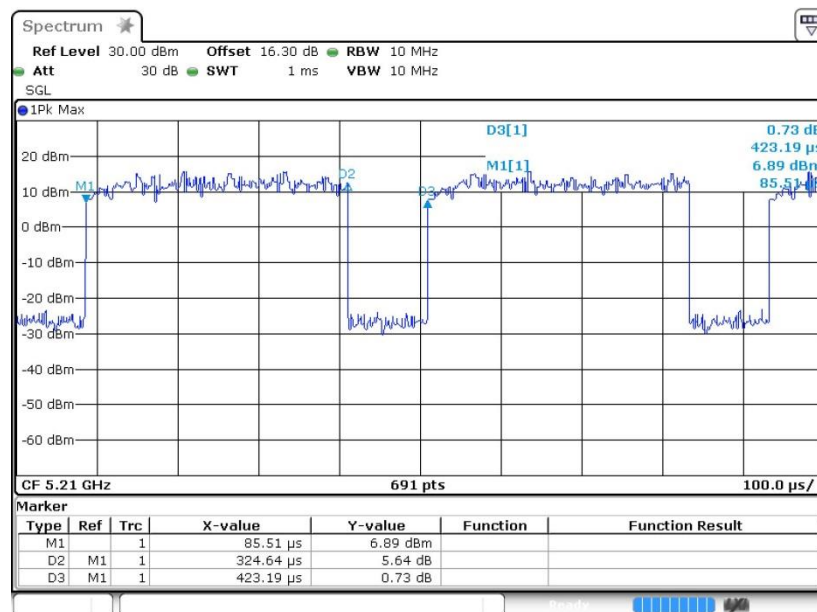
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802.11ac VHT40



Date: 13 JUN 2018 20:24:15

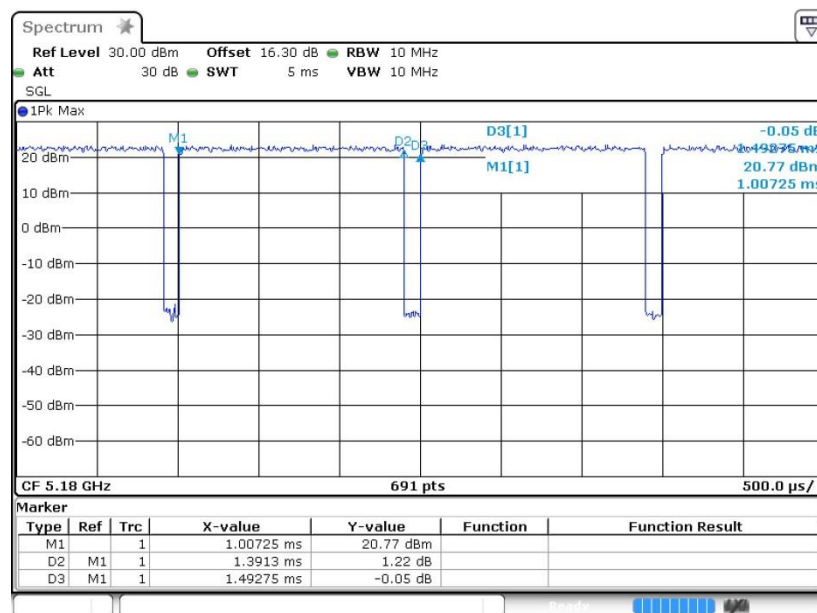
802.11ac VHT80



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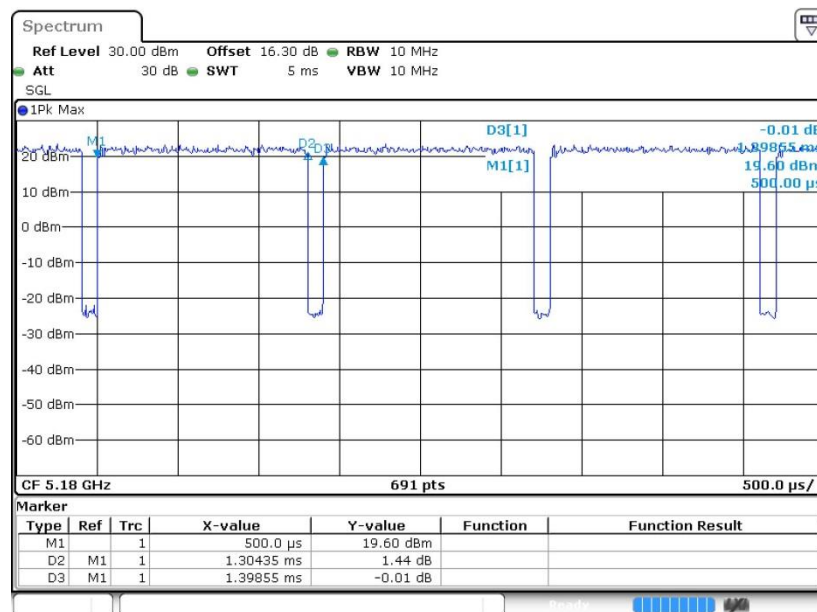
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802.11a



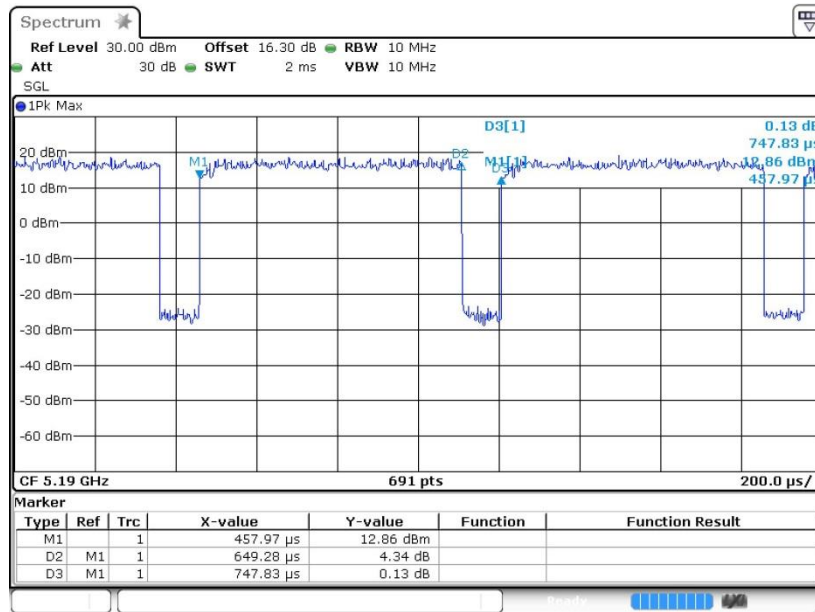
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802.11n HT20



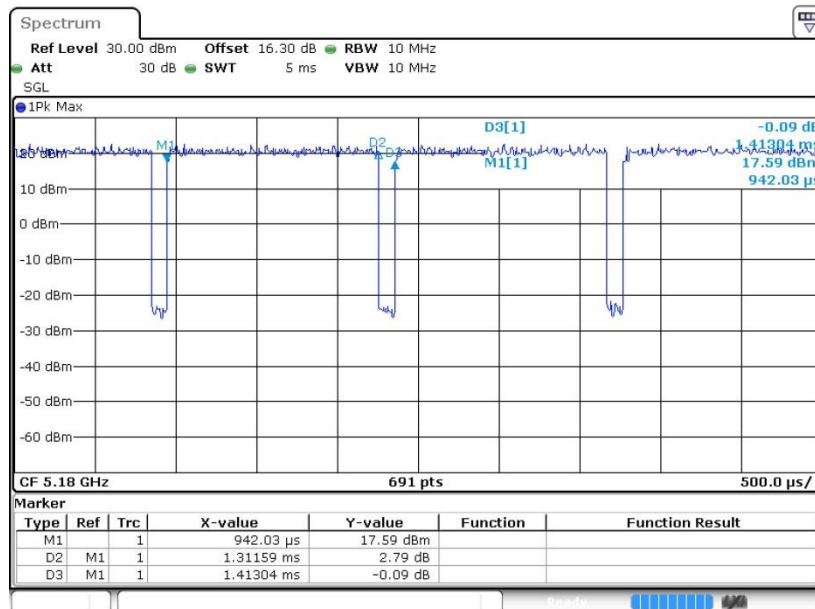
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802.11n HT40



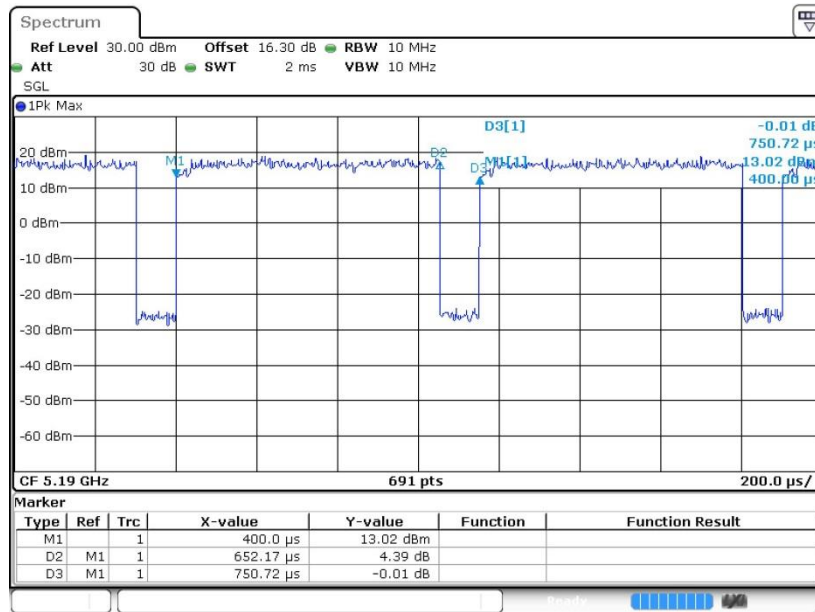
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802.11ac VHT20



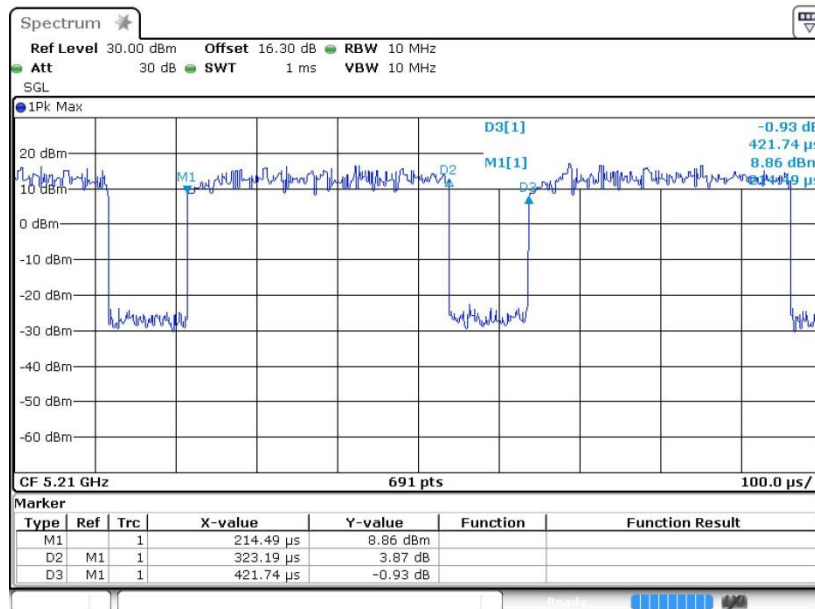
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802.11ac VHT40



Date: 13 JUN 2018 17:23:51

802.11ac VHT80



Date: 13 JUN 2018 17:24:51

—THE END—