



FCC RADIO TEST REPORT

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

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

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

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

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

History of this test report	3
Summary of Test Result	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test.....	5
1.3 Modification of EUT.....	6
1.4 Testing Location.....	6
1.5 Applicable Standards	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode	7
2.3 Connection Diagram of Test System.....	8
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	9
3 Test Result.....	10
3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement	10
3.2 Maximum Conducted Output Power Measurement	13
3.3 Power Spectral Density Measurement	14
3.4 Unwanted Emissions Measurement	16
3.5 AC Conducted Emission Measurement.....	21
3.6 Automatically Discontinue Transmission	23
3.7 Antenna Requirements	25
4 List of Measuring Equipment	26
5 Uncertainty of Evaluation	28
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	



History of this test report

Report No.	Version	Description	Issued Date
FR831509-01F	01	Initial issue of report	Jul. 18, 2018
FR831509-01F	02	Revising antenna gain information in section 1.2 and appendix a.	Aug. 03, 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: Natasha Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

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

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	<Ant. 1> 802.11a : 19.35 dBm / 0.0861 W 802.11n HT20 : 19.23 dBm / 0.0838 W 802.11n HT40 : 19.38 dBm / 0.0867 W 802.11ac VHT20: 19.19 dBm / 0.0830 W 802.11ac VHT40: 19.35 dBm / 0.0861 W 802.11ac VHT80: 16.06 dBm / 0.0404 W <Ant. 2> 802.11a : 19.86 dBm / 0.0968 W 802.11n HT20 : 19.71 dBm / 0.0935 W 802.11n HT40 : 19.39 dBm / 0.0869 W 802.11ac VHT20: 19.70 dBm / 0.0933 W 802.11ac VHT40: 19.37 dBm / 0.0865 W 802.11ac VHT80: 16.53 dBm / 0.0450 W
99% Occupied Bandwidth	<Ant. 1> 802.11a : 26.05 MHz 802.11n HT20 : 26.55 MHz 802.11n HT40 : 54.10 MHz 802.11ac VHT80 : 77.52 MHz <Ant. 2> 802.11a : 25.90 MHz 802.11n HT20 : 26.90 MHz 802.11n HT40 : 50.50 MHz 802.11ac VHT80 : 77.88 MHz
Antenna Type / Gain	<Ant. 1> : Fixed internal Antenna with gain 4.80 dBi <Ant. 2> : Fixed internal Antenna with gain 4.80 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

1.3 Modification of EUT

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

1.4 Testing Location

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

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

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

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
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.

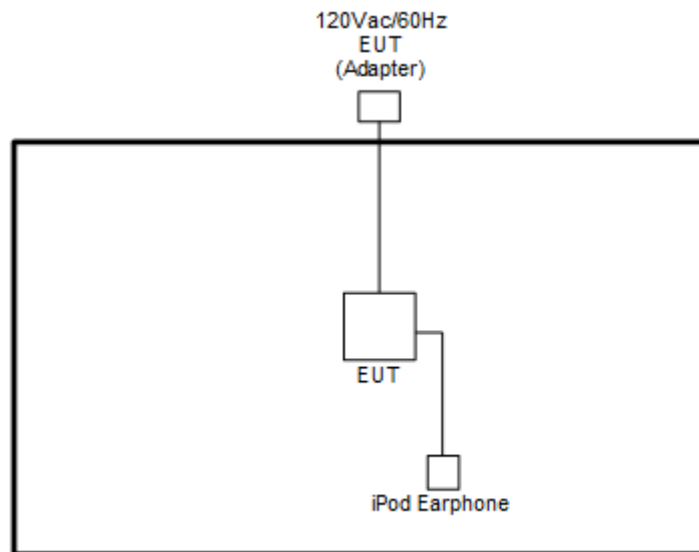
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

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

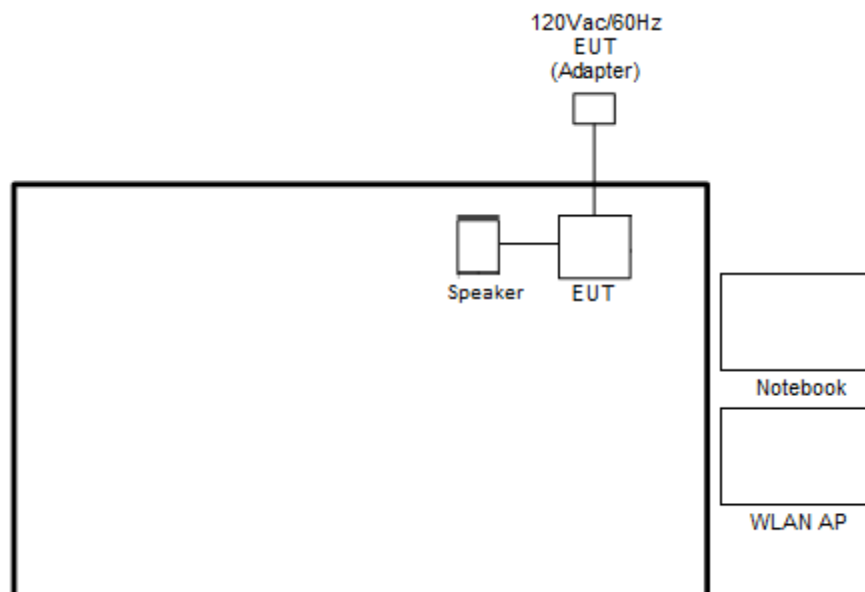
Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode for Notebook Playing News>



2.4 Support Unit used in test configuration and system

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

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 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.

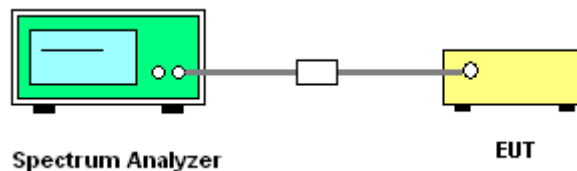
3.1.2 Measuring Instruments

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

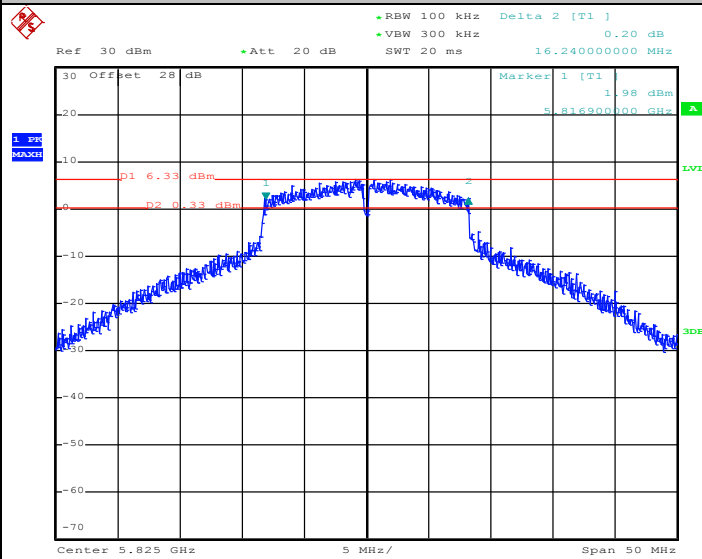


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

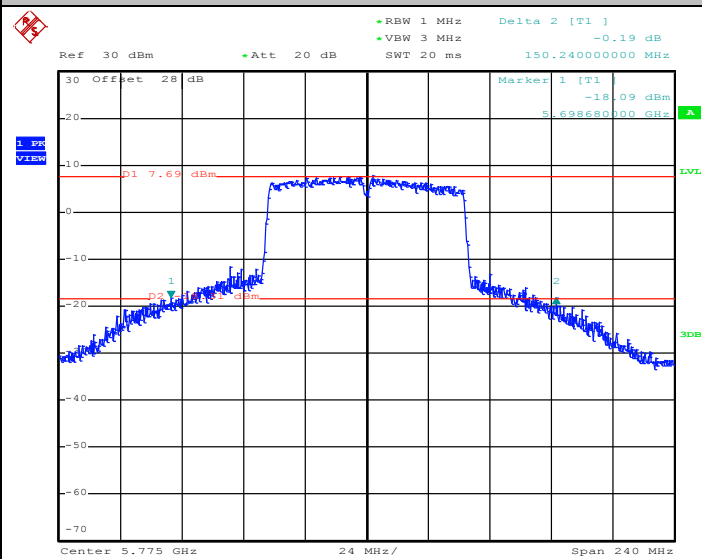


Minimum 6dB Bandwidth

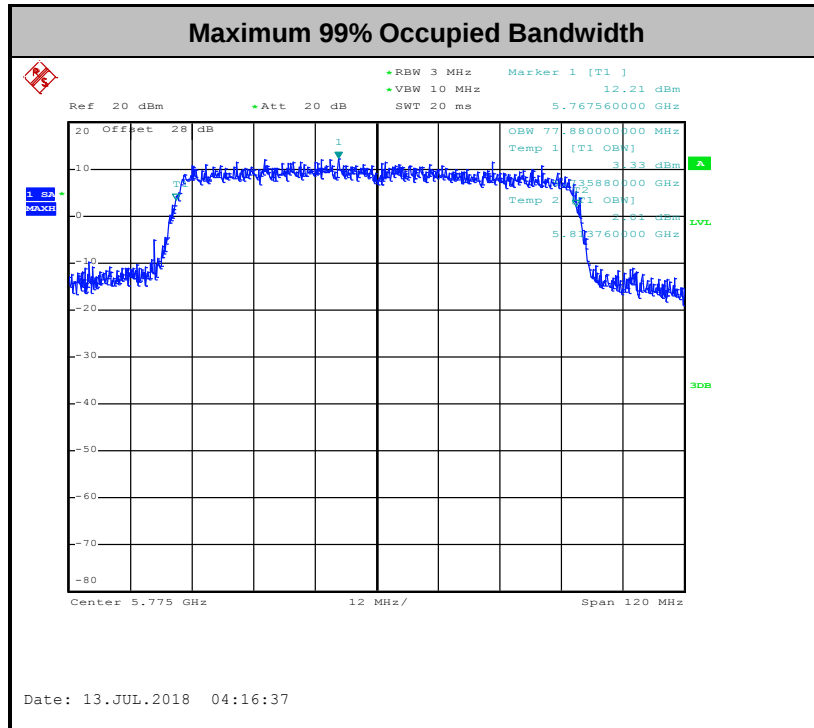


Date: 13.JUL.2018 03:13:16

Maximum 26dB Bandwidth



Date: 13.JUL.2018 04:15:12



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.

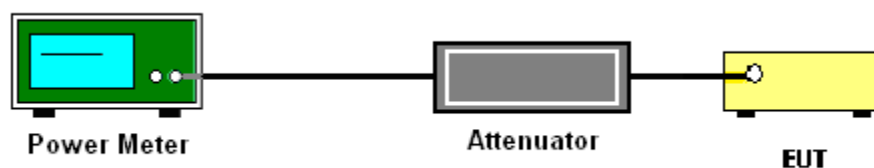
3.2.3 Test Procedures

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

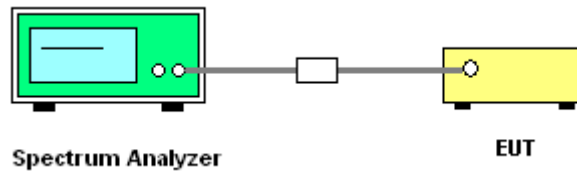
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

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

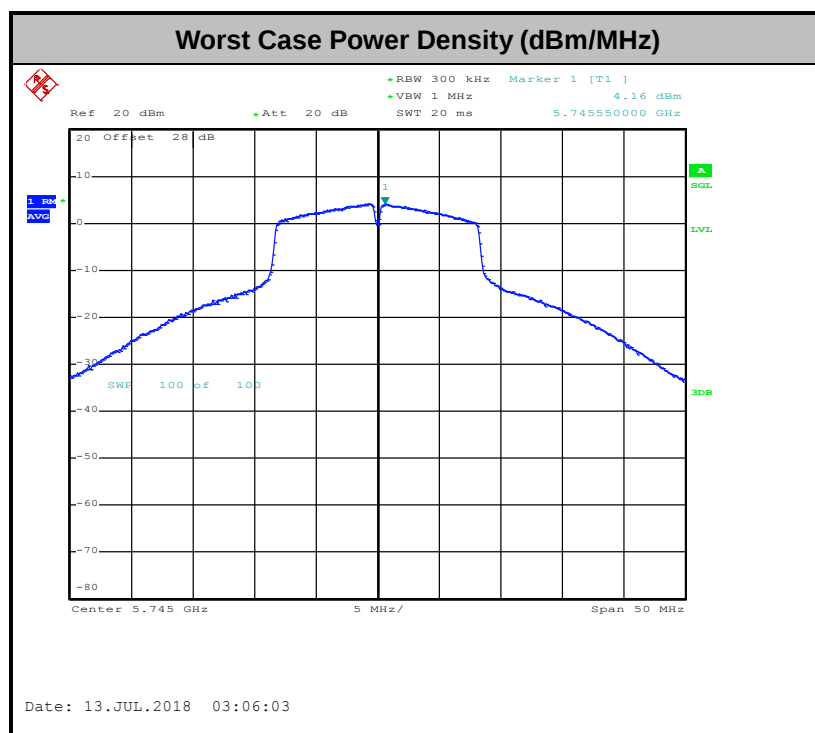
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.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

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

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 $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

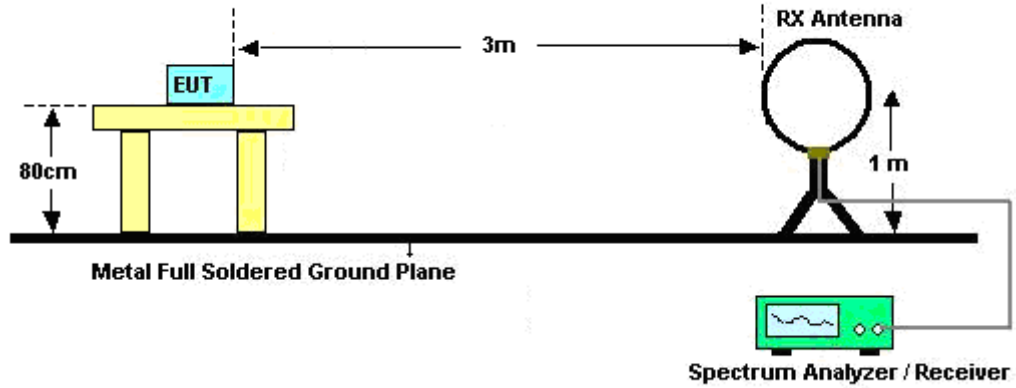
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



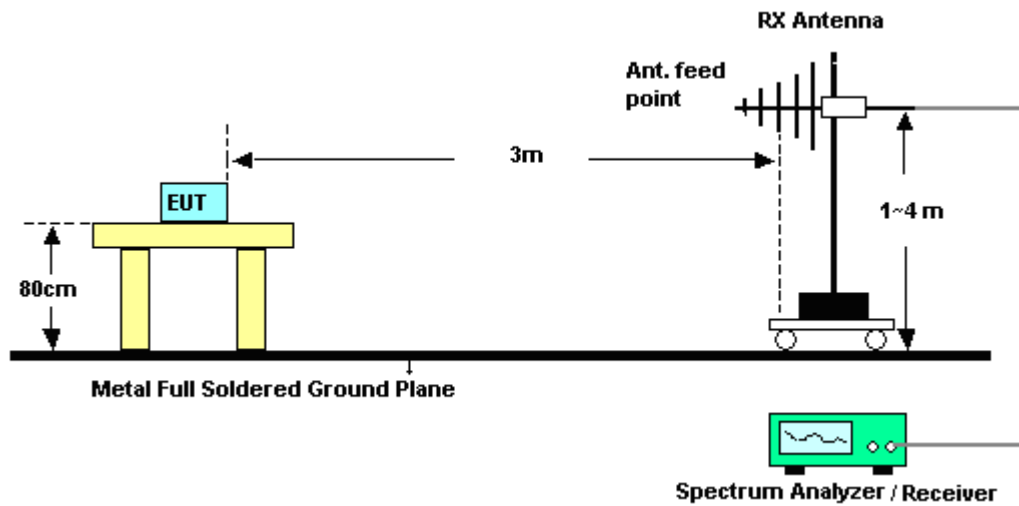
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

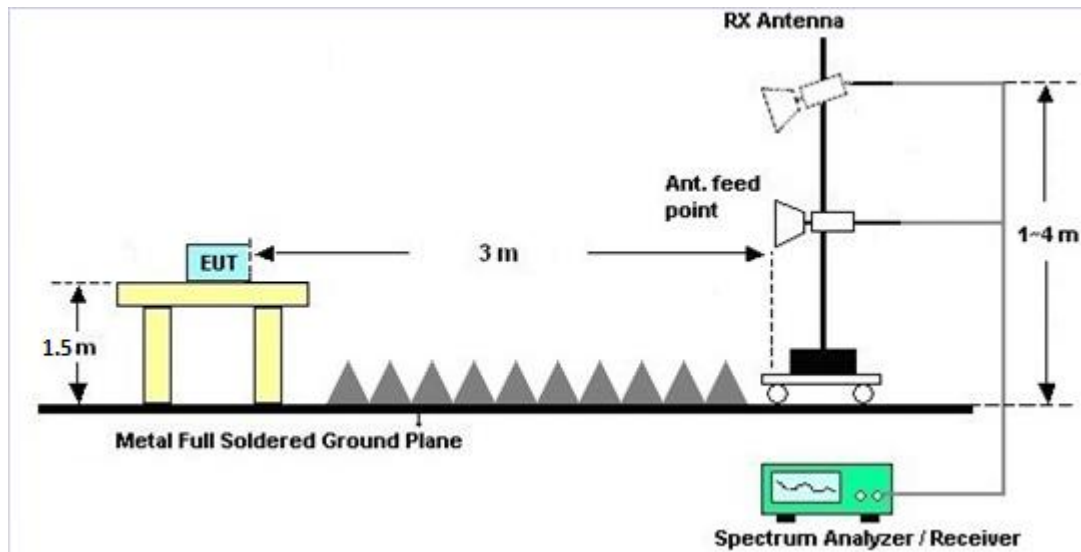
For radiated emissions below 30MHz



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 semi-Anechoic chamber, 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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

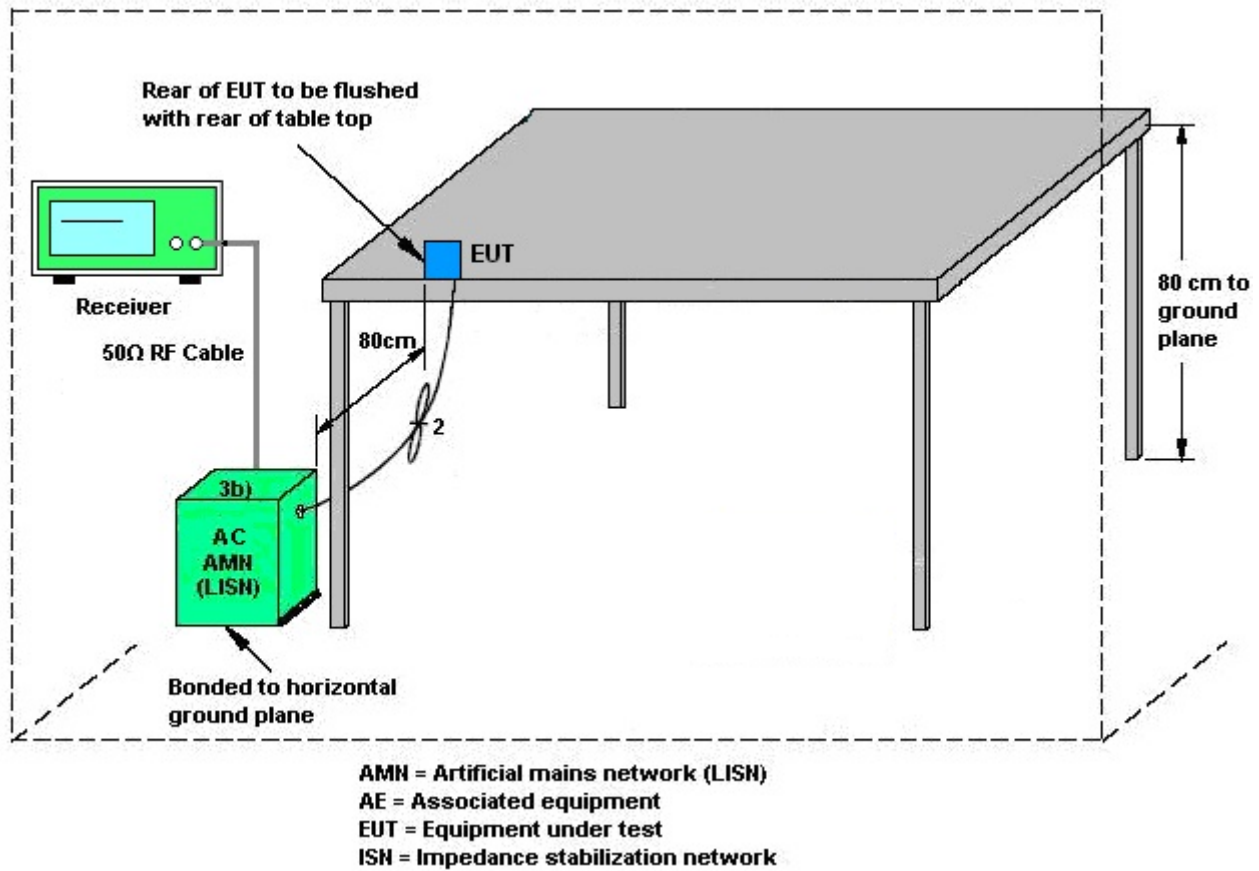
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

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

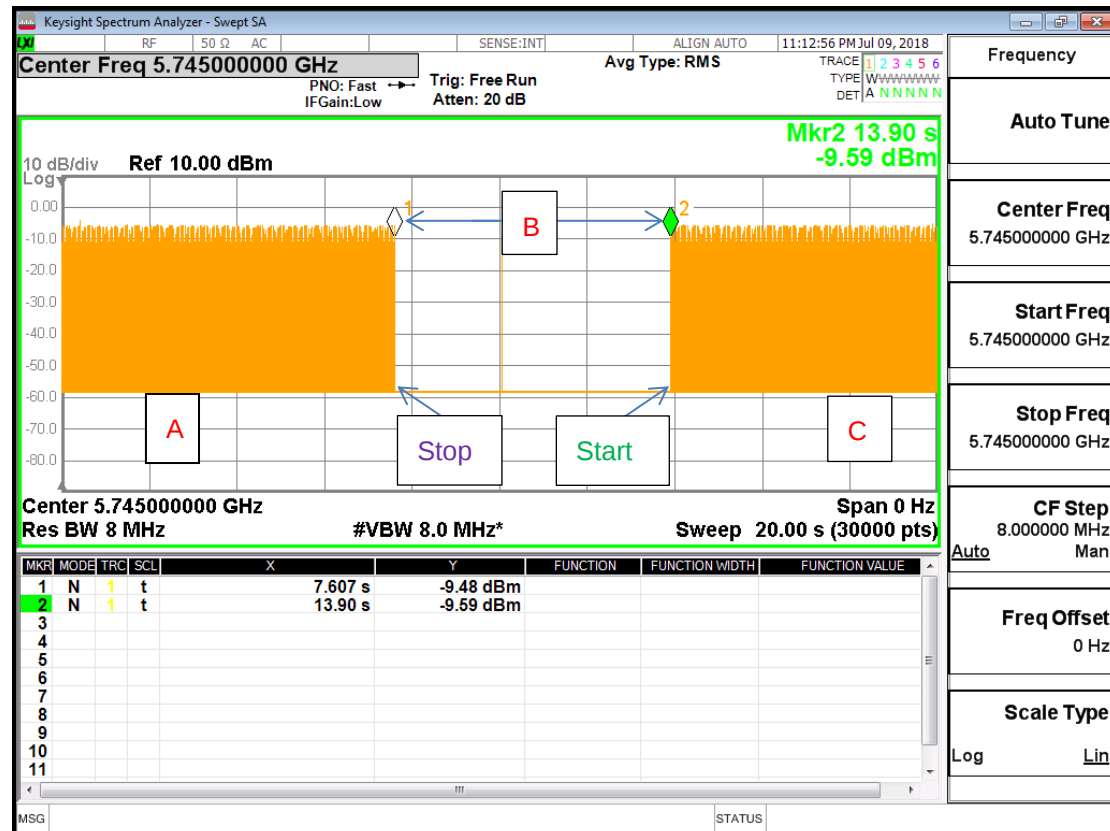
While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

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

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



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	0932001	N/A	Sep. 26, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jul. 05, 2018 ~ Jul. 13, 2018	Feb. 28, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 08, 2017	Jul. 05, 2018 ~ Jul. 13, 2018	Aug. 07, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 25, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 25, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 25, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 25, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 25, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 25, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D&0080 0N1D01N-06	35419&03	30MHz to 1GHz	Dec. 18, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Dec. 17, 2018	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 23, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Aug. 22, 2018	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 10, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz ~ 18GHz	Apr. 25, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Apr. 24, 2019	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 21, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	May 20, 2019	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 30, 2017	Jul. 06, 2018 ~ Jul. 12, 2018	Oct. 29, 2018	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 17, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Apr. 16, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9KHz~30MHz	Jan. 02, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Jan. 01, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 27, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 27, 2018	Jul. 06, 2018 ~ Jul. 12, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jul. 06, 2018 ~ Jul. 12, 2018	N/A	Radiation (03CH07-HY)



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

5 Uncertainty of Evaluation

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

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

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

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

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

Test Engineer:	Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/07/05 ~ 2018/07/13	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		
11a	6Mbps	1	149	5745	24.70	25.10	43.60	44.97	16.36	16.26	0.5	Pass
11a	6Mbps	1	157	5785	26.05	25.90	44.96	46.10	16.30	16.34	0.5	Pass
11a	6Mbps	1	165	5825	24.80	25.90	43.20	44.90	16.30	16.24	0.5	Pass
HT20	MCS0	1	149	5745	25.50	26.20	45.44	47.43	17.50	17.57	0.5	Pass
HT20	MCS0	1	157	5785	26.55	26.90	47.60	48.00	17.53	17.50	0.5	Pass
HT20	MCS0	1	165	5825	26.15	26.40	47.32	46.70	17.56	17.57	0.5	Pass
HT40	MCS0	1	151	5755	51.60	48.20	90.58	91.32	36.36	36.40	0.5	Pass
HT40	MCS0	1	159	5795	54.10	50.50	93.36	90.15	36.20	36.18	0.5	Pass
VHT80	MCS0	1	155	5775	77.52	77.88	137.76	150.24	76.48	76.48	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	0.00	0.00	19.35	19.86		30.00	30.00	4.80	4.80	Pass
11a	6Mbps	1	157	5785	0.00	0.00	19.18	19.71		30.00	30.00	4.80	4.80	Pass
11a	6Mbps	1	165	5825	0.00	0.00	18.87	19.41		30.00	30.00	4.80	4.80	Pass
HT20	MCS0	1	149	5745	0.00	0.00	19.23	19.71		30.00	30.00	4.80	4.80	Pass
HT20	MCS0	1	157	5785	0.00	0.00	19.16	19.50		30.00	30.00	4.80	4.80	Pass
HT20	MCS0	1	165	5825	0.00	0.00	18.80	19.36		30.00	30.00	4.80	4.80	Pass
HT40	MCS0	1	151	5755	0.00	0.00	19.38	19.39		30.00	30.00	4.80	4.80	Pass
HT40	MCS0	1	159	5795	0.00	0.00	19.06	19.28		30.00	30.00	4.80	4.80	Pass
VHT20	MCS0	1	149	5745	0.00	0.00	19.19	19.70		30.00	30.00	4.80	4.80	Pass
VHT20	MCS0	1	157	5785	0.00	0.00	19.12	19.45		30.00	30.00	4.80	4.80	Pass
VHT20	MCS0	1	165	5825	0.00	0.00	18.77	19.31		30.00	30.00	4.80	4.80	Pass
VHT40	MCS0	1	151	5755	0.00	0.00	19.35	19.37		30.00	30.00	4.80	4.80	Pass
VHT40	MCS0	1	159	5795	0.00	0.00	19.02	19.25		30.00	30.00	4.80	4.80	Pass
VHT80	MCS0	1	155	5775	0.00	0.00	16.06	16.53		30.00	30.00	4.80	4.80	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	0.00	0.00	2.22	2.22	3.45	4.16		30.00	30.00	4.80	4.80	Pass
11a	6Mbps	1	157	5785	0.00	0.00	2.22	2.22	3.24	3.60		30.00	30.00	4.80	4.80	Pass
11a	6Mbps	1	165	5825	0.00	0.00	2.22	2.22	3.04	3.53		30.00	30.00	4.80	4.80	Pass
HT20	MCS0	1	149	5745	0.00	0.00	2.22	2.22	3.27	3.88		30.00	30.00	4.80	4.80	Pass
HT20	MCS0	1	157	5785	0.00	0.00	2.22	2.22	2.96	3.41		30.00	30.00	4.80	4.80	Pass
HT20	MCS0	1	165	5825	0.00	0.00	2.22	2.22	2.83	3.23		30.00	30.00	4.80	4.80	Pass
HT40	MCS0	1	151	5755	0.00	0.00	2.22	2.22	-0.21	-0.13		30.00	30.00	4.80	4.80	Pass
HT40	MCS0	1	159	5795	0.00	0.00	2.22	2.22	-0.60	-0.74		30.00	30.00	4.80	4.80	Pass
VHT80	MCS0	1	155	5775	0.00	0.00	2.22	2.22	-6.56	-6.28		30.00	30.00	4.80	4.80	Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)



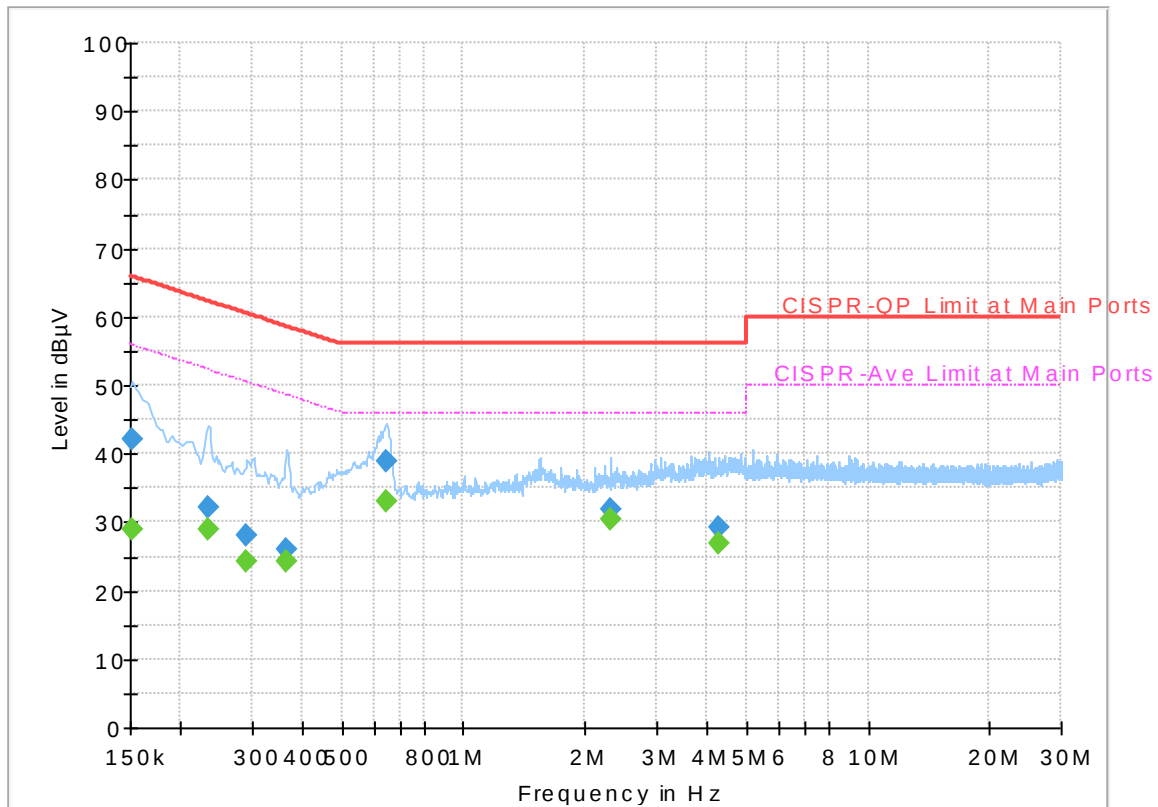
Appendix B. AC Conducted Emission Test Results

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

EUT Information

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

Full Spectrum



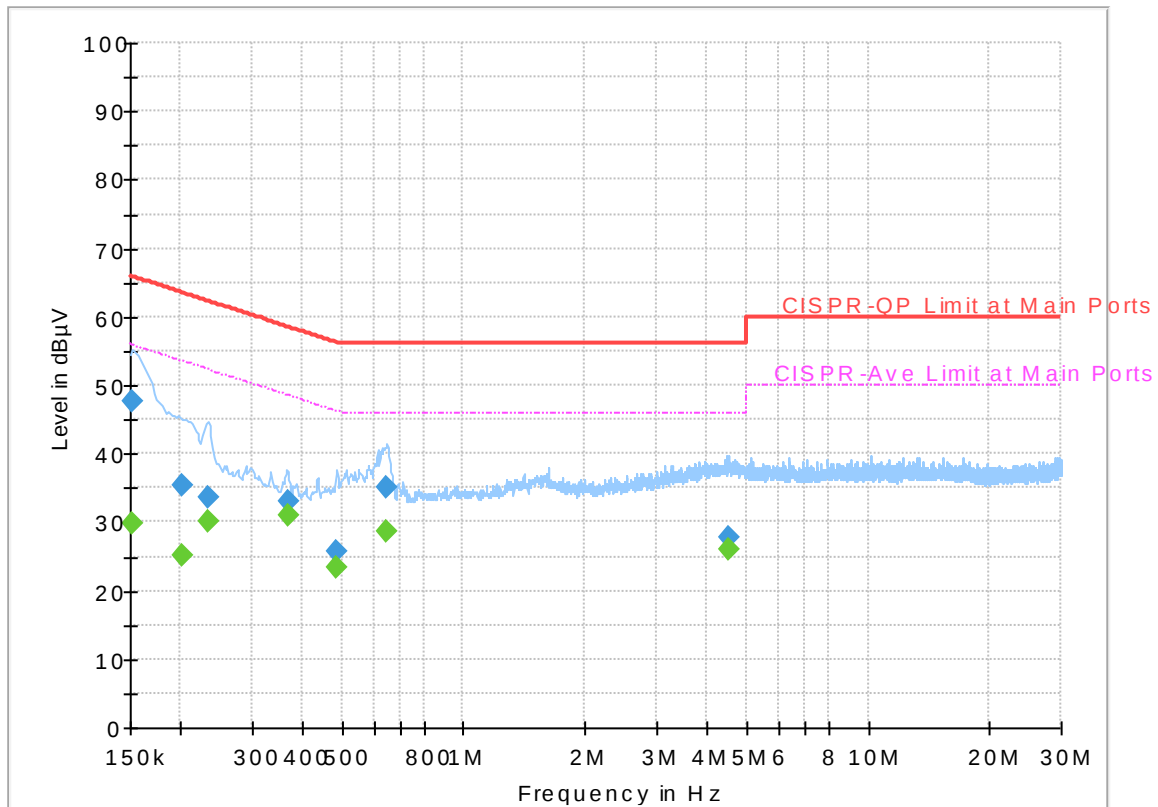
Final_Result

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

EUT Information

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

Full Spectrum



Final_Result

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



Appendix C. Radiated Spurious Emission

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

Band 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.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5637.8	51.85	-16.35	68.2	40.52	35.09	11.43	35.19	214	286	P	H
		5693	60.82	-39.22	100.04	49.39	35.17	11.46	35.2	214	286	P	H
		5718.6	78.18	-32.23	110.41	66.67	35.21	11.5	35.2	214	286	P	H
		5723.2	83.11	-34.99	118.1	71.6	35.21	11.5	35.2	214	286	P	H
	*	5745	115.05	-	-	103.49	35.24	11.53	35.21	214	286	P	H
	*	5745	106.68	-	-	95.12	35.24	11.53	35.21	214	286	A	H
		5637	50.98	-17.22	68.2	39.65	35.09	11.43	35.19	333	8	P	V
		5695.6	54.69	-47.27	101.96	43.26	35.17	11.46	35.2	333	8	P	V
		5719	73.69	-36.83	110.52	62.18	35.21	11.5	35.2	333	8	P	V
		5724.8	80.44	-41.3	121.74	68.93	35.21	11.5	35.2	333	8	P	V
	*	5745	110.21	-	-	98.65	35.24	11.53	35.21	333	8	P	V
	*	5745	102.11	-	-	90.55	35.24	11.53	35.21	333	8	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5624	52.06	-16.14	68.2	40.74	35.07	11.43	35.18	216	286	P	H
		5672.4	53.76	-31.06	84.82	42.35	35.14	11.46	35.19	216	286	P	H
		5714	54.48	-54.64	109.12	42.99	35.19	11.5	35.2	216	286	P	H
		5721.8	54.19	-60.71	114.9	42.68	35.21	11.5	35.2	216	286	P	H
	*	5785	114.68	-	-	103.05	35.29	11.56	35.22	216	286	P	H
	*	5785	106.43	-	-	94.8	35.29	11.56	35.22	216	286	A	H
		5851	51.81	-68.11	119.92	40.06	35.38	11.6	35.23	216	286	P	H
		5870.6	51.06	-55.37	106.43	39.22	35.43	11.65	35.24	216	286	P	H
		5881	50.69	-50.05	100.74	38.85	35.43	11.65	35.24	216	286	P	H
		5949.8	51.4	-16.8	68.2	39.38	35.53	11.74	35.25	216	286	P	H
		5611.6	51.66	-16.54	68.2	40.4	35.04	11.4	35.18	347	15	P	V
		5686.4	51.09	-44.08	95.17	39.66	35.17	11.46	35.2	347	15	P	V
		5704	52.11	-54.21	106.32	40.62	35.19	11.5	35.2	347	15	P	V
		5724.2	50.93	-69.45	120.38	39.42	35.21	11.5	35.2	347	15	P	V
	*	5785	110.93	-	-	99.3	35.29	11.56	35.22	347	15	P	V
	*	5785	102.64	-	-	91.01	35.29	11.56	35.22	347	15	A	V
		5851.6	49.8	-68.75	118.55	38.05	35.38	11.6	35.23	347	15	P	V
		5873.8	50.43	-55.11	105.54	38.59	35.43	11.65	35.24	347	15	P	V
		5883.8	49.87	-48.8	98.67	38.03	35.43	11.65	35.24	347	15	P	V
		5928.6	49.49	-18.71	68.2	37.54	35.5	11.69	35.24	347	15	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	114.77	-	-	103.03	35.36	11.6	35.22	210	286	P	H
	*	5825	106.32	-	-	94.58	35.36	11.6	35.22	210	286	A	H
		5852	76.03	-41.61	117.64	64.28	35.38	11.6	35.23	210	286	P	H
		5855	69.04	-41.76	110.8	57.26	35.41	11.6	35.23	210	286	P	H
		5884.8	56.4	-41.52	97.92	44.56	35.43	11.65	35.24	210	286	P	H
		5926.6	50.33	-17.87	68.2	38.38	35.5	11.69	35.24	210	286	P	H
	*	5825	110.59	-	-	98.85	35.36	11.6	35.22	340	16	P	V
	*	5825	102.43	-	-	90.69	35.36	11.6	35.22	340	16	A	V
		5850.6	76.66	-44.17	120.83	64.91	35.38	11.6	35.23	340	16	P	V
		5858.4	69.77	-40.08	109.85	58	35.41	11.6	35.24	340	16	P	V
		5875.6	53.53	-51.22	104.75	41.69	35.43	11.65	35.24	340	16	P	V
		5949.6	49.44	-18.76	68.2	37.42	35.53	11.74	35.25	340	16	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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	48.33	-25.67	74	48.85	38.38	18.44	57.34	100	0	P	H
		17235	51.01	-17.19	68.2	43.19	41.77	21.8	55.75	100	0	P	H
		11490	55	-19	74	55.52	38.38	18.44	57.34	100	37	P	V
		11490	43.98	-10.02	54	44.5	38.38	18.44	57.34	100	37	A	V
		17235	50.69	-17.51	68.2	42.87	41.77	21.8	55.75	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	48.56	-25.44	74	48.76	38.46	18.54	57.2	100	0	P	H
		17355	50.79	-17.41	68.2	43	41.61	21.91	55.73	100	0	P	H
		11570	53.73	-20.27	74	53.93	38.46	18.54	57.2	100	37	P	V
		11570	43.06	-10.94	54	43.26	38.46	18.54	57.2	100	37	A	V
		17355	50.86	-17.34	68.2	43.07	41.61	21.91	55.73	100	0	P	V
802.11a CH 165 5825MHz		11650	50.47	-23.53	74	50.43	38.51	18.64	57.11	100	0	P	H
		17475	50.31	-17.89	68.2	42.56	41.45	22.01	55.71	100	0	P	H
		11650	50.26	-23.74	74	50.22	38.51	18.64	57.11	100	0	P	V
		17475	50.41	-17.79	68.2	42.66	41.45	22.01	55.71	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		5634.6	52.47	-15.73	68.2	41.14	35.09	11.43	35.19	209	286	P	H
		5696.2	59.12	-43.28	102.4	47.69	35.17	11.46	35.2	209	286	P	H
		5718.4	78.71	-31.64	110.35	67.2	35.21	11.5	35.2	209	286	P	H
		5725	88.77	-33.43	122.2	77.26	35.21	11.5	35.2	209	286	P	H
	*	5745	114.82	-	-	103.26	35.24	11.53	35.21	209	286	P	H
	*	5745	106.34	-	-	94.78	35.24	11.53	35.21	209	286	A	H
		5621	50.93	-17.27	68.2	39.61	35.07	11.43	35.18	333	9	P	V
		5699.2	54.63	-49.98	104.61	43.2	35.17	11.46	35.2	333	9	P	V
		5718.6	72.46	-37.95	110.41	60.95	35.21	11.5	35.2	333	9	P	V
		5725	80.09	-42.11	122.2	68.58	35.21	11.5	35.2	333	9	P	V
	*	5745	110.07	-	-	98.51	35.24	11.53	35.21	333	9	P	V
	*	5745	101.96	-	-	90.4	35.24	11.53	35.21	333	9	A	V



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 157 5785MHz		5608.2	52.78	-15.42	68.2	41.52	35.04	11.4	35.18	218	286	P	H
		5659.6	52.24	-23.09	75.33	40.88	35.12	11.43	35.19	218	286	P	H
		5720	55.92	-54.88	110.8	44.41	35.21	11.5	35.2	218	286	P	H
		5722.6	55.73	-61	116.73	44.22	35.21	11.5	35.2	218	286	P	H
	*	5785	114.72	-	-	103.09	35.29	11.56	35.22	218	286	P	H
	*	5785	106.17	-	-	94.54	35.29	11.56	35.22	218	286	A	H
		5852.4	51.19	-65.54	116.73	39.44	35.38	11.6	35.23	218	286	P	H
		5858.6	50.97	-58.82	109.79	39.2	35.41	11.6	35.24	218	286	P	H
		5912.2	50.63	-27.01	77.64	38.7	35.48	11.69	35.24	218	286	P	H
		5942.2	51.14	-17.06	68.2	39.12	35.53	11.74	35.25	218	286	P	H
		5639.2	51.17	-17.03	68.2	39.84	35.09	11.43	35.19	348	16	P	V
		5689.8	52.06	-45.62	97.68	40.63	35.17	11.46	35.2	348	16	P	V
		5705	51.85	-54.75	106.6	40.36	35.19	11.5	35.2	348	16	P	V
		5725	51.63	-70.57	122.2	40.12	35.21	11.5	35.2	348	16	P	V
	*	5785	110.49	-	-	98.86	35.29	11.56	35.22	348	16	P	V
	*	5785	102.35	-	-	90.72	35.29	11.56	35.22	348	16	A	V
		5852.2	50.7	-66.48	117.18	38.95	35.38	11.6	35.23	348	16	P	V
		5857.2	49.09	-61.09	110.18	37.31	35.41	11.6	35.23	348	16	P	V
		5912.2	50.3	-27.34	77.64	38.37	35.48	11.69	35.24	348	16	P	V
		5938.6	49.55	-18.65	68.2	37.58	35.53	11.69	35.25	348	16	P	V



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 165 5825MHz	*	5825	114.47	-	-	102.73	35.36	11.6	35.22	213	286	P	H
	*	5825	106.02	-	-	94.28	35.36	11.6	35.22	213	286	A	H
		5851.2	79.72	-39.74	119.46	67.97	35.38	11.6	35.23	213	286	P	H
		5855	72.92	-37.88	110.8	61.14	35.41	11.6	35.23	213	286	P	H
		5876	54.85	-49.61	104.46	43.01	35.43	11.65	35.24	213	286	P	H
		5927.4	51	-17.2	68.2	39.05	35.5	11.69	35.24	213	286	P	H
	*	5825	110.5	-	-	98.76	35.36	11.6	35.22	343	17	P	V
	*	5825	102.13	-	-	90.39	35.36	11.6	35.22	343	17	A	V
		5850.2	72.65	-49.09	121.74	60.9	35.38	11.6	35.23	343	17	P	V
		5855	70.19	-40.61	110.8	58.41	35.41	11.6	35.23	343	17	P	V
		5875	55.7	-49.5	105.2	43.86	35.43	11.65	35.24	343	17	P	V
		5936.6	50.14	-18.06	68.2	38.2	35.5	11.69	35.25	343	17	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. 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		11490	46.88	-27.12	74	47.4	38.38	18.44	57.34	100	0	P	H
		17235	50.72	-17.48	68.2	42.9	41.77	21.8	55.75	100	0	P	H
		11490	48.47	-25.53	74	48.99	38.38	18.44	57.34	100	0	P	V
		17235	50.66	-17.54	68.2	42.84	41.77	21.8	55.75	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	47.77	-26.23	74	47.97	38.46	18.54	57.2	100	0	P	H
		17355	51.6	-16.6	68.2	43.81	41.61	21.91	55.73	100	0	P	H
		11570	49.86	-24.14	74	50.06	38.46	18.54	57.2	100	0	P	V
		17355	50.56	-17.64	68.2	42.77	41.61	21.91	55.73	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	49.39	-24.61	74	49.35	38.51	18.64	57.11	100	0	P	H
		17475	51.39	-16.81	68.2	43.64	41.45	22.01	55.71	100	0	P	H
		11650	50.23	-23.77	74	50.19	38.51	18.64	57.11	100	0	P	V
		17475	51.66	-16.54	68.2	43.91	41.45	22.01	55.71	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		5649.6	60.22	-7.98	68.2	48.86	35.12	11.43	35.19	217	286	P	H
		5697	75.7	-27.29	102.99	64.27	35.17	11.46	35.2	217	286	P	H
		5718.2	86.96	-23.34	110.3	75.45	35.21	11.5	35.2	217	286	P	H
		5723.6	89.03	-29.98	119.01	77.52	35.21	11.5	35.2	217	286	P	H
	*	5755	111.31	-	-	99.73	35.26	11.53	35.21	217	286	P	H
	*	5755	103.15	-	-	91.57	35.26	11.53	35.21	217	286	A	H
		5850.4	61.57	-59.72	121.29	49.82	35.38	11.6	35.23	217	286	P	H
		5859.6	55.55	-53.96	109.51	43.78	35.41	11.6	35.24	217	286	P	H
		5880	51.46	-50.03	101.49	39.62	35.43	11.65	35.24	217	286	P	H
		5929.8	50.41	-17.79	68.2	38.46	35.5	11.69	35.24	217	286	P	H
		5634.4	53.87	-14.33	68.2	42.54	35.09	11.43	35.19	351	10	P	V
		5698.6	70.29	-33.88	104.17	58.86	35.17	11.46	35.2	351	10	P	V
		5718.6	83.82	-26.59	110.41	72.31	35.21	11.5	35.2	351	10	P	V
		5724.4	83.04	-37.79	120.83	71.53	35.21	11.5	35.2	351	10	P	V
	*	5755	107.23	-	-	95.65	35.26	11.53	35.21	351	10	P	V
	*	5755	98.81	-	-	87.23	35.26	11.53	35.21	351	10	A	V
		5850.4	52.69	-68.6	121.29	40.94	35.38	11.6	35.23	351	10	P	V
		5858.4	50.8	-59.05	109.85	39.03	35.41	11.6	35.24	351	10	P	V
		5878.4	49.51	-53.16	102.67	37.67	35.43	11.65	35.24	351	10	P	V
		5936.2	50.26	-17.94	68.2	38.32	35.5	11.69	35.25	351	10	P	V



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 159 5795MHz		5640.4	53.64	-14.56	68.2	42.31	35.09	11.43	35.19	224	286	P	H
		5696.4	59.62	-42.93	102.55	48.19	35.17	11.46	35.2	224	286	P	H
		5719.8	67.12	-43.62	110.74	55.61	35.21	11.5	35.2	224	286	P	H
		5725	68	-54.2	122.2	56.49	35.21	11.5	35.2	224	286	P	H
	*	5795	110.99	-	-	99.34	35.31	11.56	35.22	224	286	P	H
	*	5795	102.53	-	-	90.88	35.31	11.56	35.22	224	286	A	H
		5850	73.42	-48.78	122.2	61.67	35.38	11.6	35.23	224	286	P	H
		5857.2	69.22	-40.96	110.18	57.44	35.41	11.6	35.23	224	286	P	H
		5875.2	61.33	-43.72	105.05	49.49	35.43	11.65	35.24	224	286	P	H
		5925.8	50.08	-18.12	68.2	38.13	35.5	11.69	35.24	224	286	P	H
		5637.2	51.23	-16.97	68.2	39.9	35.09	11.43	35.19	363	17	P	V
		5697	55.78	-47.21	102.99	44.35	35.17	11.46	35.2	363	17	P	V
		5720	61.36	-49.44	110.8	49.85	35.21	11.5	35.2	363	17	P	V
		5720	61.36	-49.44	110.8	49.85	35.21	11.5	35.2	363	17	P	V
	*	5795	107.09	-	-	95.44	35.31	11.56	35.22	363	17	P	V
	*	5795	98.62	-	-	86.97	35.31	11.56	35.22	363	17	A	V
		5853.2	65.92	-48.98	114.9	54.17	35.38	11.6	35.23	363	17	P	V
		5856	65.69	-44.83	110.52	53.91	35.41	11.6	35.23	363	17	P	V
		5875	53.97	-51.23	105.2	42.13	35.43	11.65	35.24	363	17	P	V
		5941.8	50.05	-18.15	68.2	38.03	35.53	11.74	35.25	363	17	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. 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		11510	47.32	-26.68	74	47.73	38.4	18.49	57.3	100	0	P	H
		17265	50.92	-17.28	68.2	43.11	41.73	21.83	55.75	100	0	P	H
		11510	49.21	-24.79	74	49.62	38.4	18.49	57.3	100	0	P	V
		17265	50.22	-17.98	68.2	42.41	41.73	21.83	55.75	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	45.8	-28.2	74	45.92	38.47	18.59	57.18	100	0	P	H
		17385	51.19	-17.01	68.2	43.41	41.56	21.94	55.72	100	0	P	H
		11590	45.45	-28.55	74	45.57	38.47	18.59	57.18	100	0	P	V
		17385	50.24	-17.96	68.2	42.46	41.56	21.94	55.72	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		5648.2	66.11	-2.09	68.2	54.78	35.09	11.43	35.19	214	286	P	H
		5687	79.71	-15.9	95.61	68.28	35.17	11.46	35.2	214	286	P	H
		5717.2	84.01	-26.01	110.02	72.52	35.19	11.5	35.2	214	286	P	H
		5724.6	82.58	-38.71	121.29	71.07	35.21	11.5	35.2	214	286	P	H
	*	5775	106.28	-	-	94.68	35.29	11.53	35.22	214	286	P	H
	*	5775	97.69	-	-	86.09	35.29	11.53	35.22	214	286	A	H
		5851.8	75.35	-42.75	118.1	63.6	35.38	11.6	35.23	214	286	P	H
		5860.8	75.31	-33.86	109.17	63.49	35.41	11.65	35.24	214	286	P	H
		5877.4	66.54	-36.88	103.42	54.7	35.43	11.65	35.24	214	286	P	H
		5926	54.98	-13.22	68.2	43.03	35.5	11.69	35.24	214	286	P	H
		5648	60.96	-7.24	68.2	49.63	35.09	11.43	35.19	332	14	P	V
		5698.6	73.19	-30.98	104.17	61.76	35.17	11.46	35.2	332	14	P	V
		5720	78.72	-32.08	110.8	67.21	35.21	11.5	35.2	332	14	P	V
		5720.6	79.29	-32.88	112.17	67.78	35.21	11.5	35.2	332	14	P	V
	*	5775	102.46	-	-	90.86	35.29	11.53	35.22	332	14	P	V
	*	5775	93.86	-	-	82.26	35.29	11.53	35.22	332	14	A	V
		5851.2	72.16	-47.3	119.46	60.41	35.38	11.6	35.23	332	14	P	V
		5857.2	68.53	-41.65	110.18	56.75	35.41	11.6	35.23	332	14	P	V
		5875.8	63.56	-41.05	104.61	51.72	35.43	11.65	35.24	332	14	P	V
		5940.4	52.35	-15.85	68.2	40.33	35.53	11.74	35.25	332	14	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. 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		11550	47.25	-26.75	74	47.5	38.44	18.54	57.23	100	0	P	H
VHT80		17325	50.66	-17.54	68.2	42.86	41.66	21.88	55.74	100	0	P	H
CH 155		11550	46.62	-27.38	74	46.87	38.44	18.54	57.23	100	0	P	V
5775MHz		17325	50.36	-17.84	68.2	42.56	41.66	21.88	55.74	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission below 1GHz****5GHz WIFI 802.11ac VHT80 (LF @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		30.54	20.34	-19.66	40	26.28	24.09	1.2	31.36	-	-	P	H
		129.9	18.48	-25.02	43.5	30.57	17.43	1.83	31.53	-	-	P	H
		207.93	26.59	-16.91	43.5	40.58	15.07	2.18	31.44	-	-	P	H
		476.4	23.88	-22.12	46	27.8	23.46	3.4	31.02	-	-	P	H
		821.5	33.8	-12.2	46	31.79	27.85	4.45	30.57	100	0	P	H
		30	28.85	-11.15	40	34.27	24.6	1.2	31.35	-	-	P	V
		75.09	20.59	-19.41	40	37.71	12.75	1.55	31.58	-	-	P	V
		266.79	18.43	-27.57	46	27.64	19.27	2.66	31.35	-	-	P	V
		624.1	28.81	-17.19	46	29.82	25.64	3.89	30.79	-	-	P	V
		759.9	36.95	-9.05	46	35.29	27.83	4.18	30.63	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	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 149 5745MHz		5628.8	52.16	-16.04	68.2	40.85	35.07	11.43	35.19	231	80	P	H
		5699	63.67	-40.79	104.46	52.24	35.17	11.46	35.2	231	80	P	H
		5713.8	77.79	-31.28	109.07	66.3	35.19	11.5	35.2	231	80	P	H
		5724.2	87.09	-33.29	120.38	75.58	35.21	11.5	35.2	231	80	P	H
	*	5745	115.64	-	-	104.08	35.24	11.53	35.21	231	80	P	H
	*	5745	107.66	-	-	96.1	35.24	11.53	35.21	231	80	A	H
		5647.8	51.79	-16.41	68.2	40.46	35.09	11.43	35.19	302	327	P	V
		5699.2	54.26	-50.35	104.61	42.83	35.17	11.46	35.2	302	327	P	V
		5718.6	71.44	-38.97	110.41	59.93	35.21	11.5	35.2	302	327	P	V
		5723.8	79.79	-39.67	119.46	68.28	35.21	11.5	35.2	302	327	P	V
	*	5745	110.72	-	-	99.16	35.24	11.53	35.21	302	327	P	V
	*	5745	102.3	-	-	90.74	35.24	11.53	35.21	302	327	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5610.4	52.74	-15.46	68.2	41.48	35.04	11.4	35.18	228	80	P	H
		5655.6	53.35	-19.01	72.36	41.99	35.12	11.43	35.19	228	80	P	H
		5714.6	54.2	-55.09	109.29	42.71	35.19	11.5	35.2	228	80	P	H
		5724.8	56.44	-65.3	121.74	44.93	35.21	11.5	35.2	228	80	P	H
	*	5785	115.75	-	-	104.12	35.29	11.56	35.22	228	80	P	H
	*	5785	107.83	-	-	96.2	35.29	11.56	35.22	228	80	A	H
		5851.4	50.63	-68.38	119.01	38.88	35.38	11.6	35.23	228	80	P	H
		5855	50.47	-60.33	110.8	38.69	35.41	11.6	35.23	228	80	P	H
		5911.4	51.94	-26.29	78.23	40.01	35.48	11.69	35.24	228	80	P	H
		5935.2	50.24	-17.96	68.2	38.3	35.5	11.69	35.25	228	80	P	H
		5627.8	51.58	-16.62	68.2	40.26	35.07	11.43	35.18	300	327	P	V
		5654.4	51.64	-19.83	71.47	40.28	35.12	11.43	35.19	300	327	P	V
		5718.2	50.56	-59.74	110.3	39.05	35.21	11.5	35.2	300	327	P	V
		5720.4	52.02	-59.69	111.71	40.51	35.21	11.5	35.2	300	327	P	V
	*	5785	110.16	-	-	98.53	35.29	11.56	35.22	300	327	P	V
	*	5785	101.69	-	-	90.06	35.29	11.56	35.22	300	327	A	V
		5851	49.2	-70.72	119.92	37.45	35.38	11.6	35.23	300	327	P	V
		5874.8	50.45	-54.81	105.26	38.61	35.43	11.65	35.24	300	327	P	V
		5875	50.41	-54.79	105.2	38.57	35.43	11.65	35.24	300	327	P	V
		5938	50.07	-18.13	68.2	38.13	35.5	11.69	35.25	300	327	P	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	115.46	-	-	103.72	35.36	11.6	35.22	211	69	P	H
	*	5825	107.4	-	-	95.66	35.36	11.6	35.22	211	69	A	H
		5851	80.14	-39.78	119.92	68.39	35.38	11.6	35.23	211	69	P	H
		5855	74	-36.8	110.8	62.22	35.41	11.6	35.23	211	69	P	H
		5884	54.07	-44.45	98.52	42.23	35.43	11.65	35.24	211	69	P	H
		5947.4	51.56	-16.64	68.2	39.54	35.53	11.74	35.25	211	69	P	H
	*	5825	108.48	-	-	96.74	35.36	11.6	35.22	296	340	P	V
	*	5825	100.27	-	-	88.53	35.36	11.6	35.22	296	340	A	V
		5850	71.35	-50.85	122.2	59.6	35.38	11.6	35.23	296	340	P	V
		5855	63.78	-47.02	110.8	52	35.41	11.6	35.23	296	340	P	V
		5885.8	49.92	-47.26	97.18	38.08	35.43	11.65	35.24	296	340	P	V
		5942.8	49.64	-18.56	68.2	37.62	35.53	11.74	35.25	296	340	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	49.87	-24.13	74	50.39	38.38	18.44	57.34	100	0	P	H
		17235	51.92	-16.28	68.2	44.1	41.77	21.8	55.75	100	0	P	H
		11490	53.74	-20.26	74	54.26	38.38	18.44	57.34	100	0	P	V
		11490	43.33	-10.67	54	43.85	38.38	18.44	57.34	100	0	A	V
		17235	51.42	-16.78	68.2	43.6	41.77	21.8	55.75	100	0	P	V
802.11a CH 157 5785MHz		11570	49.09	-24.91	74	49.29	38.46	18.54	57.2	100	0	P	H
		17355	52.39	-15.81	68.2	44.6	41.61	21.91	55.73	100	0	P	H
		11570	54.5	-19.5	74	54.7	38.46	18.54	57.2	100	0	P	V
		11570	43.76	-10.24	54	43.96	38.46	18.54	57.2	100	0	A	V
		17355	51.46	-16.74	68.2	43.67	41.61	21.91	55.73	100	0	P	V
802.11a CH 165 5825MHz		11650	52.89	-21.11	74	52.85	38.51	18.64	57.11	101	74	P	H
		11650	41.57	-12.43	54	41.53	38.51	18.64	57.11	101	74	A	H
		17475	50.67	-17.53	68.2	42.92	41.45	22.01	55.71	100	0	P	H
		11650	56.65	-17.35	74	56.61	38.51	18.64	57.11	100	299	P	V
		11650	46.23	-7.77	54	46.19	38.51	18.64	57.11	100	299	A	V
		17475	51.22	-16.98	68.2	43.47	41.45	22.01	55.71	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		5616.4	52.42	-15.78	68.2	41.13	35.07	11.4	35.18	242	81	P	H
		5695.8	61.55	-40.55	102.1	50.12	35.17	11.46	35.2	242	81	P	H
		5719.8	83.61	-27.13	110.74	72.1	35.21	11.5	35.2	242	81	P	H
		5723.6	86.61	-32.4	119.01	75.1	35.21	11.5	35.2	242	81	P	H
	*	5745	115.59	-	-	104.03	35.24	11.53	35.21	242	81	P	H
	*	5745	107.29	-	-	95.73	35.24	11.53	35.21	242	81	A	H
		5648.4	51.12	-17.08	68.2	39.79	35.09	11.43	35.19	303	327	P	V
		5699.4	54.68	-50.08	104.76	43.25	35.17	11.46	35.2	303	327	P	V
		5720	72.35	-38.45	110.8	60.84	35.21	11.5	35.2	303	327	P	V
		5723.4	80.65	-37.9	118.55	69.14	35.21	11.5	35.2	303	327	P	V
	*	5745	110.13	-	-	98.57	35.24	11.53	35.21	303	327	P	V
	*	5745	102.01	-	-	90.45	35.24	11.53	35.21	303	327	A	V



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 157 5785MHz		5613	53.25	-14.95	68.2	41.99	35.04	11.4	35.18	227	79	P	H
		5686.8	53.34	-42.12	95.46	41.91	35.17	11.46	35.2	227	79	P	H
		5716.6	55.38	-54.47	109.85	43.89	35.19	11.5	35.2	227	79	P	H
		5724.4	59.67	-61.16	120.83	48.16	35.21	11.5	35.2	227	79	P	H
	*	5785	115.65	-	-	104.02	35.29	11.56	35.22	227	79	P	H
	*	5785	107.45	-	-	95.82	35.29	11.56	35.22	227	79	A	H
		5850.8	51.98	-68.4	120.38	40.23	35.38	11.6	35.23	227	79	P	H
		5858.2	51.8	-58.1	109.9	40.03	35.41	11.6	35.24	227	79	P	H
		5896.6	51.03	-38.15	89.18	39.16	35.46	11.65	35.24	227	79	P	H
		5943.8	50.22	-17.98	68.2	38.2	35.53	11.74	35.25	227	79	P	H
		5624.6	51.75	-16.45	68.2	40.43	35.07	11.43	35.18	302	327	P	V
		5690.6	51.75	-46.52	98.27	40.32	35.17	11.46	35.2	302	327	P	V
		5717.4	51.3	-58.77	110.07	39.81	35.19	11.5	35.2	302	327	P	V
		5720.6	50.66	-61.51	112.17	39.15	35.21	11.5	35.2	302	327	P	V
	*	5785	109.43	-	-	97.8	35.29	11.56	35.22	302	327	P	V
	*	5785	101.42	-	-	89.79	35.29	11.56	35.22	302	327	A	V
		5851	49.26	-70.66	119.92	37.51	35.38	11.6	35.23	302	327	P	V
		5874.2	49.93	-55.49	105.42	38.09	35.43	11.65	35.24	302	327	P	V
		5924.2	49.88	-18.91	68.79	37.93	35.5	11.69	35.24	302	327	P	V
		5944.8	49.44	-18.76	68.2	37.42	35.53	11.74	35.25	302	327	P	V



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 165 5825MHz	*	5825	115.13	-	-	103.39	35.36	11.6	35.22	225	80	P	H
	*	5825	107.07	-	-	95.33	35.36	11.6	35.22	225	80	A	H
		5851	79.03	-40.89	119.92	67.28	35.38	11.6	35.23	225	80	P	H
		5857.2	72.58	-37.6	110.18	60.8	35.41	11.6	35.23	225	80	P	H
		5876.8	54.19	-49.67	103.86	42.35	35.43	11.65	35.24	225	80	P	H
		5936.8	50.21	-17.99	68.2	38.27	35.5	11.69	35.25	225	80	P	H
	*	5825	109.23	-	-	97.49	35.36	11.6	35.22	291	328	P	V
	*	5825	100.83	-	-	89.09	35.36	11.6	35.22	291	328	A	V
		5850.4	70.3	-50.99	121.29	58.55	35.38	11.6	35.23	291	328	P	V
		5856	66.68	-43.84	110.52	54.9	35.41	11.6	35.23	291	328	P	V
		5877.8	51.7	-51.42	103.12	39.86	35.43	11.65	35.24	291	328	P	V
		5934	49.36	-18.84	68.2	37.41	35.5	11.69	35.24	291	328	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. 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		11490	47.63	-26.37	74	48.15	38.38	18.44	57.34	100	0	P	H
		17235	51.66	-16.54	68.2	43.84	41.77	21.8	55.75	100	0	P	H
		11490	48.74	-25.26	74	49.26	38.38	18.44	57.34	100	0	P	V
		17235	51.4	-16.8	68.2	43.58	41.77	21.8	55.75	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	48.5	-25.5	74	48.7	38.46	18.54	57.2	100	0	P	H
		17355	51.66	-16.54	68.2	43.87	41.61	21.91	55.73	100	0	P	H
		11570	49.63	-24.37	74	49.83	38.46	18.54	57.2	100	0	P	V
		17355	51.29	-16.91	68.2	43.5	41.61	21.91	55.73	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	49.59	-24.41	74	49.55	38.51	18.64	57.11	100	0	P	H
		17475	50.92	-17.28	68.2	43.17	41.45	22.01	55.71	100	0	P	H
		11650	55.81	-18.19	74	55.77	38.51	18.64	57.11	100	297	P	V
		11650	45.35	-8.65	54	45.31	38.51	18.64	57.11	100	297	A	V
		17475	50.66	-17.54	68.2	42.91	41.45	22.01	55.71	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		5641.6	59.09	-9.11	68.2	47.76	35.09	11.43	35.19	223	80	P	H
		5699.6	77.34	-27.57	104.91	65.91	35.17	11.46	35.2	223	80	P	H
		5717.6	88.18	-21.95	110.13	76.67	35.21	11.5	35.2	223	80	P	H
		5724.6	90.07	-31.22	121.29	78.56	35.21	11.5	35.2	223	80	P	H
	*	5755	113.02	-	-	101.44	35.26	11.53	35.21	223	80	P	H
	*	5755	104.01	-	-	92.43	35.26	11.53	35.21	223	80	A	H
		5854.8	57.5	-53.76	111.26	45.72	35.41	11.6	35.23	223	80	P	H
		5858	53.38	-56.58	109.96	41.61	35.41	11.6	35.24	223	80	P	H
		5881.4	51.58	-48.87	100.45	39.74	35.43	11.65	35.24	223	80	P	H
		5929.2	49.95	-18.25	68.2	38	35.5	11.69	35.24	223	80	P	H
		5637.8	56.19	-12.01	68.2	44.86	35.09	11.43	35.19	367	310	P	V
		5692.4	70.76	-28.84	99.6	59.33	35.17	11.46	35.2	367	310	P	V
		5719.6	82.99	-27.7	110.69	71.48	35.21	11.5	35.2	367	310	P	V
		5725	84.53	-37.67	122.2	73.02	35.21	11.5	35.2	367	310	P	V
	*	5755	107.1	-	-	95.52	35.26	11.53	35.21	367	310	P	V
	*	5755	109.19	-	-	97.61	35.26	11.53	35.21	367	310	A	V
		5851.2	51.67	-67.79	119.46	39.92	35.38	11.6	35.23	367	310	P	V
		5855	50.72	-60.08	110.8	38.94	35.41	11.6	35.23	367	310	P	V
		5906.4	49.97	-31.96	81.93	38.04	35.48	11.69	35.24	367	310	P	V
		5929.2	49.51	-18.69	68.2	37.56	35.5	11.69	35.24	367	310	P	V



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 159 5795MHz		5642.2	53.68	-14.52	68.2	42.35	35.09	11.43	35.19	229	79	P	H
		5697.8	59.61	-43.97	103.58	48.18	35.17	11.46	35.2	229	79	P	H
		5718.6	65.88	-44.53	110.41	54.37	35.21	11.5	35.2	229	79	P	H
		5724.6	68.63	-52.66	121.29	57.12	35.21	11.5	35.2	229	79	P	H
	*	5795	112.99	-	-	101.34	35.31	11.56	35.22	229	79	P	H
	*	5795	104.02	-	-	92.37	35.31	11.56	35.22	229	79	A	H
		5852.8	72.67	-43.15	115.82	60.92	35.38	11.6	35.23	229	79	P	H
		5856	69.8	-40.72	110.52	58.02	35.41	11.6	35.23	229	79	P	H
		5876.2	59.69	-44.62	104.31	47.85	35.43	11.65	35.24	229	79	P	H
		5933.2	51.32	-16.88	68.2	39.37	35.5	11.69	35.24	229	79	P	H
		5636.2	51.68	-16.52	68.2	40.35	35.09	11.43	35.19	297	327	P	V
		5691.4	53.3	-45.56	98.86	41.87	35.17	11.46	35.2	297	327	P	V
		5720	61.49	-49.31	110.8	49.98	35.21	11.5	35.2	297	327	P	V
		5721.6	61.78	-52.67	114.45	50.27	35.21	11.5	35.2	297	327	P	V
	*	5795	106.85	-	-	95.2	35.31	11.56	35.22	297	327	P	V
	*	5795	98.32	-	-	86.67	35.31	11.56	35.22	297	327	A	V
		5851.4	64.33	-54.68	119.01	52.58	35.38	11.6	35.23	297	327	P	V
		5855.4	62.16	-48.53	110.69	50.38	35.41	11.6	35.23	297	327	P	V
		5877.2	51.97	-51.6	103.57	40.13	35.43	11.65	35.24	297	327	P	V
		5945.6	49.45	-18.75	68.2	37.43	35.53	11.74	35.25	297	327	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. 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		11510	47.64	-26.36	74	48.05	38.4	18.49	57.3	100	0	P	H
		17265	50.74	-17.46	68.2	42.93	41.73	21.83	55.75	100	0	P	H
		11510	47.91	-26.09	74	48.32	38.4	18.49	57.3	100	0	P	V
		17268	51.13	-17.07	68.2	43.32	41.73	21.83	55.75	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	47.44	-26.56	74	47.56	38.47	18.59	57.18	100	0	P	H
		17385	51.2	-17	68.2	43.42	41.56	21.94	55.72	100	0	P	H
		11590	47.84	-26.16	74	47.96	38.47	18.59	57.18	100	0	P	V
		17385	50.3	-17.9	68.2	42.52	41.56	21.94	55.72	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		5646.8	66.38	-1.82	68.2	55.05	35.09	11.43	35.19	228	78	P	H
		5697.4	79.97	-23.31	103.28	68.54	35.17	11.46	35.2	228	78	P	H
		5719.6	84.02	-26.67	110.69	72.51	35.21	11.5	35.2	228	78	P	H
		5721.2	84.71	-28.83	113.54	73.2	35.21	11.5	35.2	228	78	P	H
	*	5775	106.81	-	-	95.21	35.29	11.53	35.22	228	78	P	H
	*	5775	98.45	-	-	86.85	35.29	11.53	35.22	228	78	A	H
		5850.8	77.61	-42.77	120.38	65.86	35.38	11.6	35.23	228	78	P	H
		5855.8	74.56	-36.02	110.58	62.78	35.41	11.6	35.23	228	78	P	H
		5876.2	64.94	-39.37	104.31	53.1	35.43	11.65	35.24	228	78	P	H
		5931.2	54.88	-13.32	68.2	42.93	35.5	11.69	35.24	228	78	P	H
		5649.4	60.81	-7.39	68.2	49.48	35.09	11.43	35.19	285	327	P	V
		5698.2	73.93	-29.94	103.87	62.5	35.17	11.46	35.2	285	327	P	V
		5719.8	77.91	-32.83	110.74	66.4	35.21	11.5	35.2	285	327	P	V
		5722.4	79.68	-36.59	116.27	68.17	35.21	11.5	35.2	285	327	P	V
	*	5775	101.37	-	-	89.77	35.29	11.53	35.22	285	327	P	V
	*	5775	93.43	-	-	81.83	35.29	11.53	35.22	285	327	A	V
		5851.4	66.86	-52.15	119.01	55.11	35.38	11.6	35.23	285	327	P	V
		5858.8	67.95	-41.78	109.73	56.18	35.41	11.6	35.24	285	327	P	V
		5875.4	60.39	-44.51	104.9	48.55	35.43	11.65	35.24	285	327	P	V
		5929	51.46	-16.74	68.2	39.51	35.5	11.69	35.24	285	327	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. 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		11550	47.31	-26.69	74	47.56	38.44	18.54	57.23	100	0	P	H
VHT80		17325	50.43	-17.77	68.2	42.63	41.66	21.88	55.74	100	0	P	H
CH 155		11550	47.44	-26.56	74	47.69	38.44	18.54	57.23	100	0	P	V
5775MHz		17325	52.24	-15.96	68.2	44.44	41.66	21.88	55.74	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission below 1GHz****5GHz WIFI 802.11ac VHT80 (LF @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		30.54	21.67	-18.33	40	27.61	24.09	1.2	31.36	-	-	P	H
		154.47	19.71	-23.79	43.5	32.11	16.85	2.06	31.5	-	-	P	H
		207.93	26.93	-16.57	43.5	40.92	15.07	2.18	31.44	100	0	P	H
		488.3	23.11	-22.89	46	26.82	23.66	3.4	31	-	-	P	H
		720.7	27.84	-18.16	46	27.36	26.78	4.09	30.66	-	-	P	H
		30	28.54	-11.46	40	33.96	24.6	1.2	31.35	100	0	P	V
		73.74	21.55	-18.45	40	38.76	12.67	1.55	31.59	-	-	P	V
		283.53	18.03	-27.97	46	27.7	18.8	2.66	31.33	-	-	P	V
		624.1	28.43	-17.57	46	29.44	25.64	3.89	30.79	-	-	P	V
		775.3	29.81	-16.19	46	28.02	27.94	4.18	30.61	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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

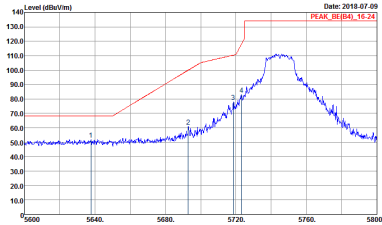
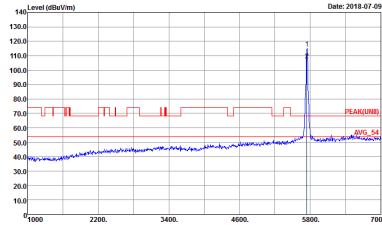


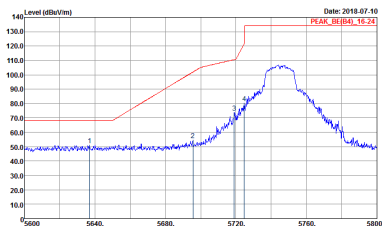
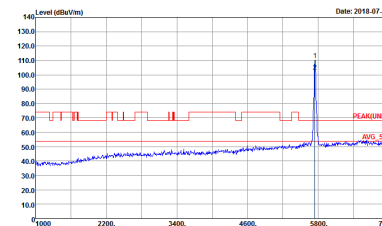
Appendix D. Radiated Spurious Emission Plots

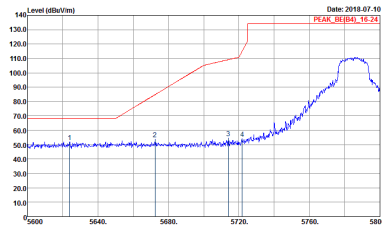
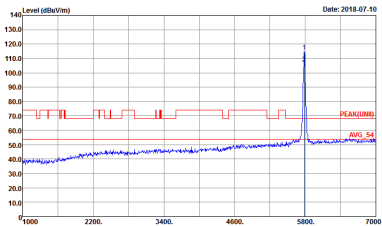
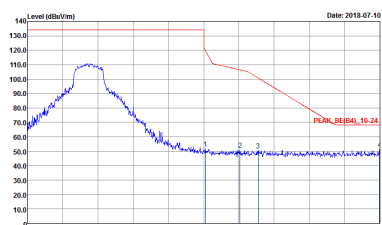
Test Engineer :	Jesse Wang, Stan Hsieh, and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	53~56%

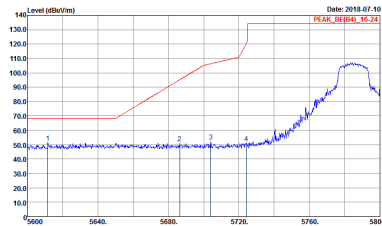
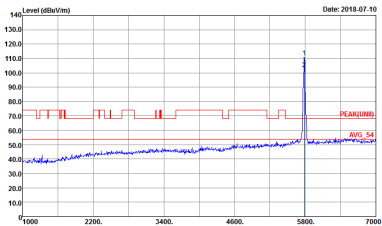
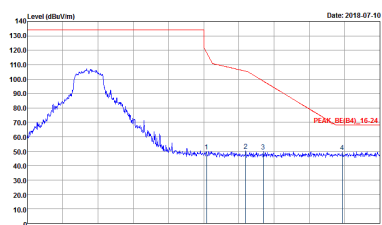
Band 4 - 5725~5850MHz

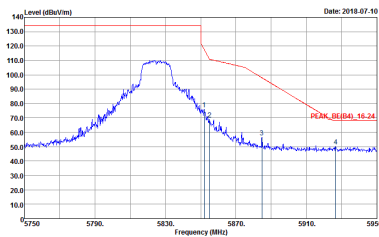
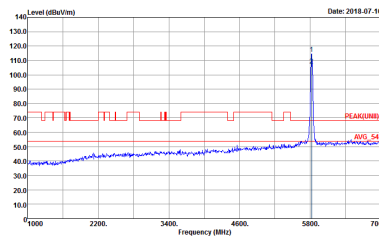
WIFI 802.11a (Band Edge @ 3m)

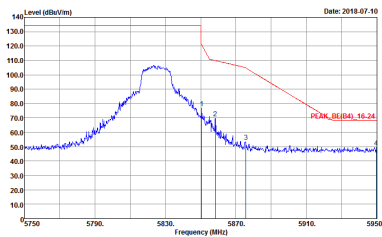
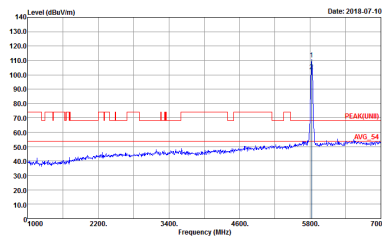
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(64)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK((UNIT)) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(84)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_UNI(1)_3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

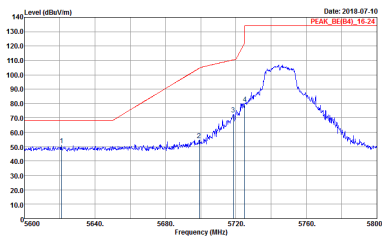
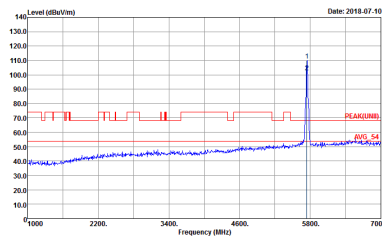
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

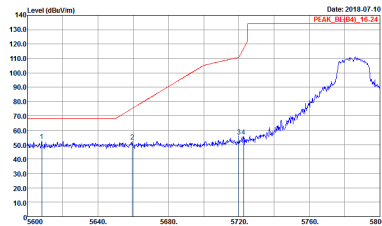
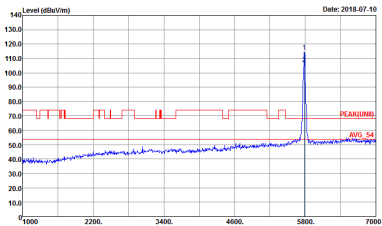
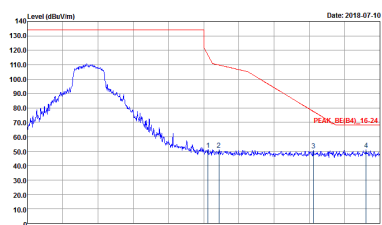
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto



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

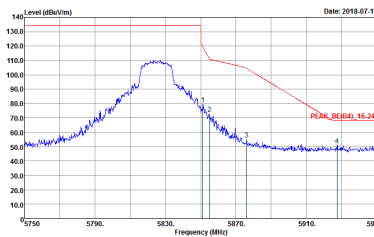
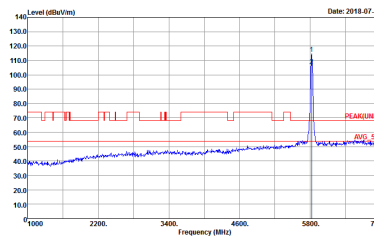
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_3E(04)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

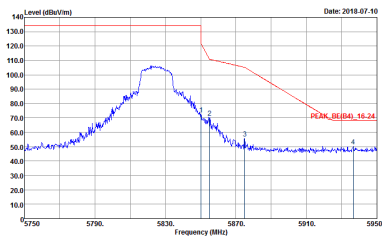
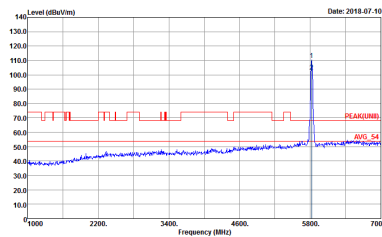
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ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto
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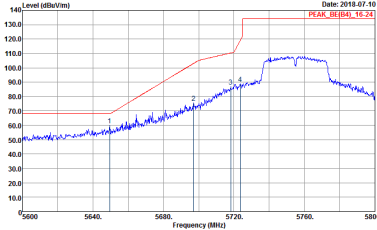
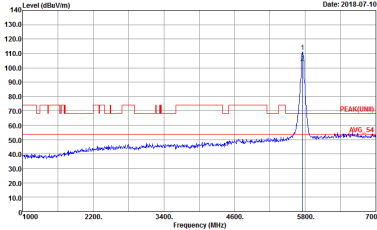
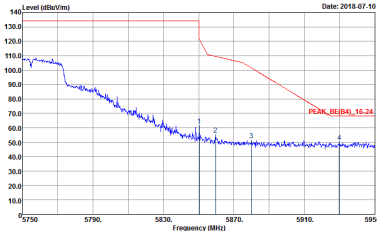


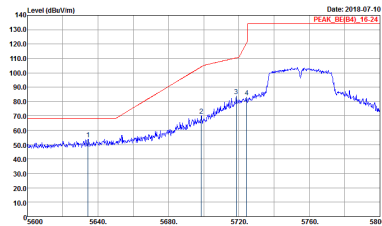
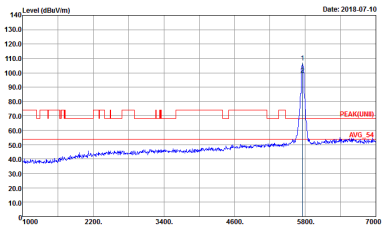
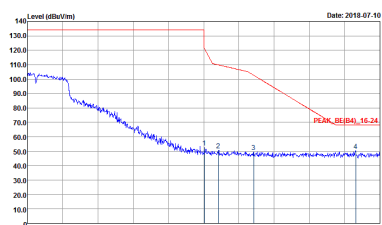
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	Site : 03CH07-HY Condition : PEAK_FUND(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto
	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto

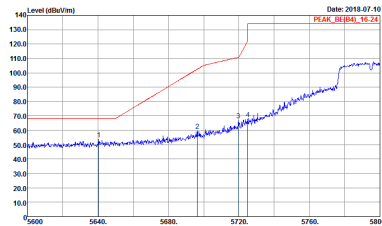
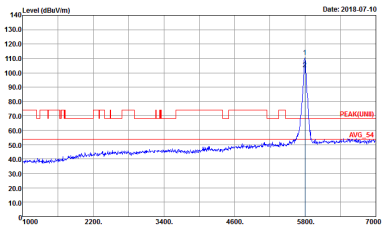
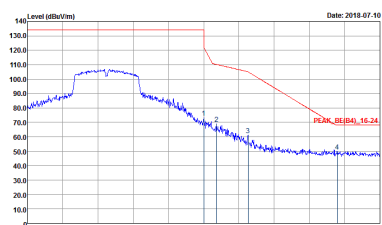
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT: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 : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank



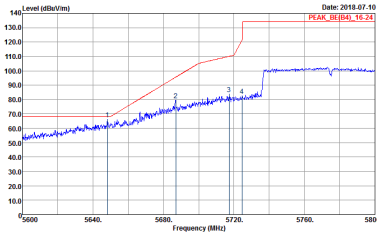
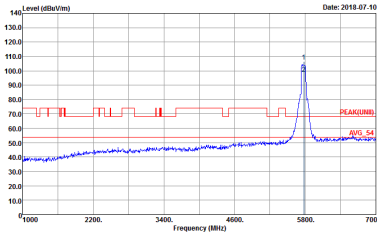
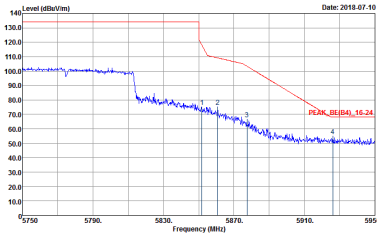
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	Left blank



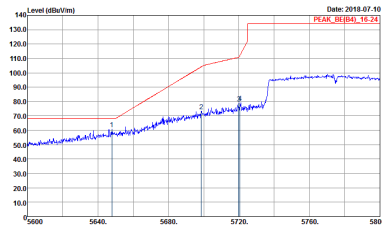
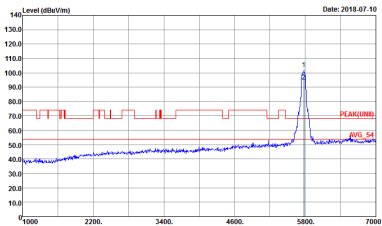
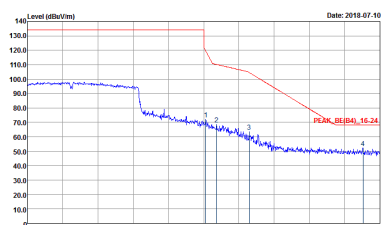
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT: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 : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(BE) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

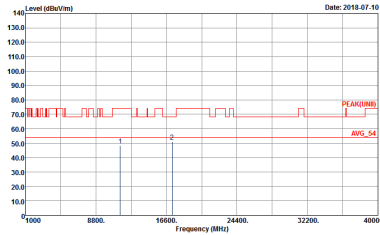
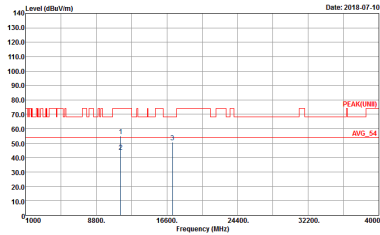


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT: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 : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



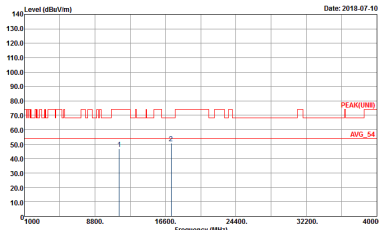
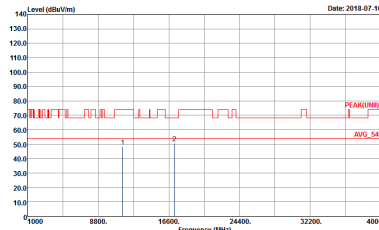
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



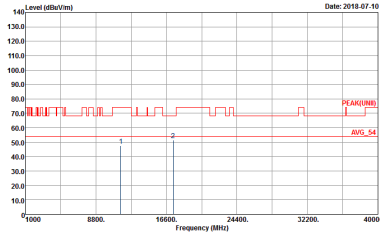
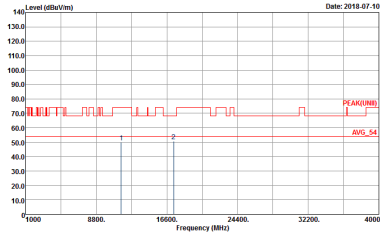
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



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



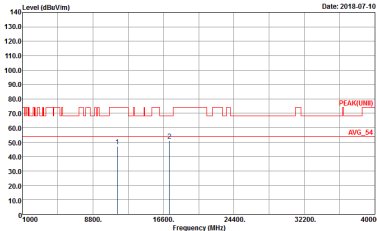
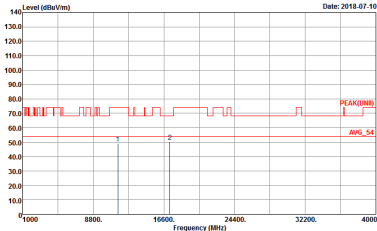
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



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

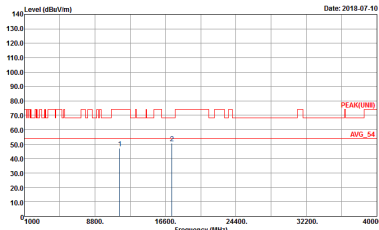
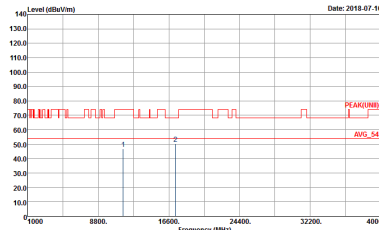
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL



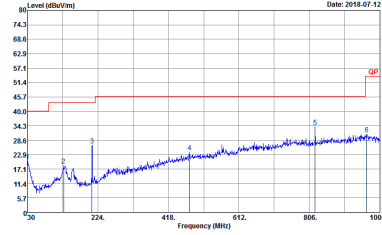
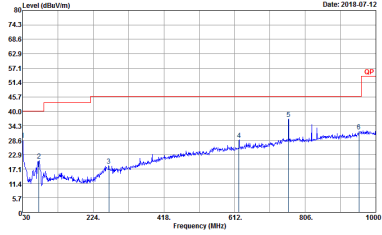
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



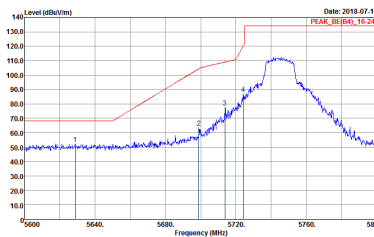
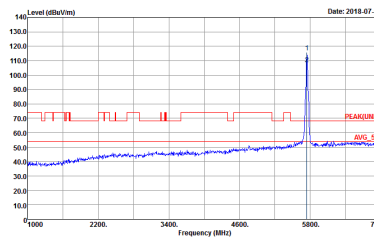
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL

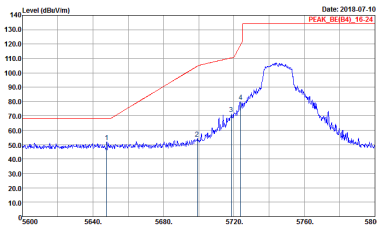
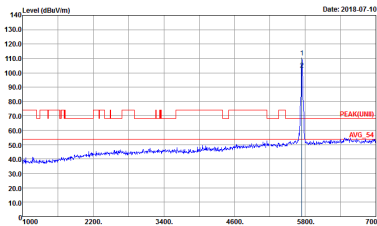
Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL

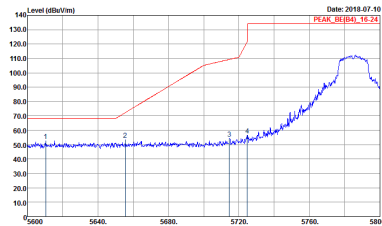
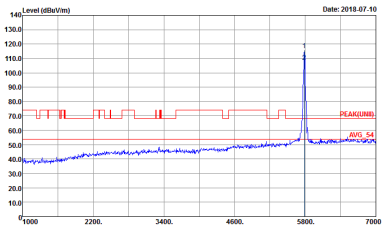
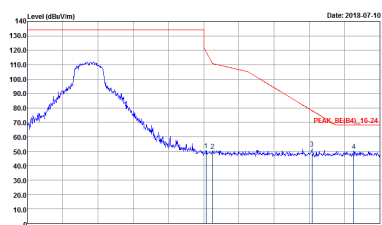
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RE(04)_16-24 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UN11) 3m HF_ANT_00075962 HORIZONTAL

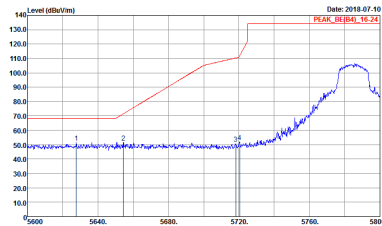
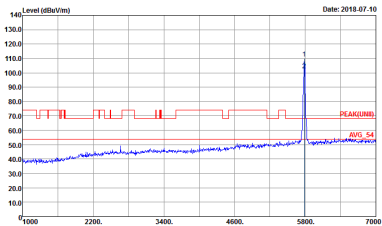
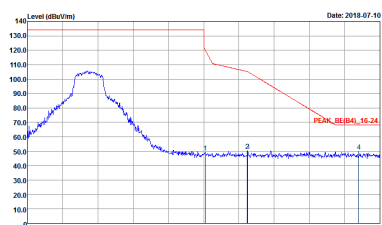


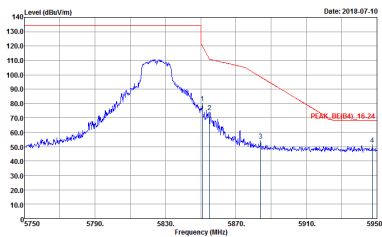
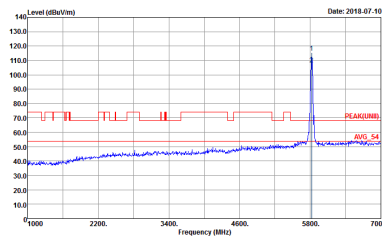
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNITI) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

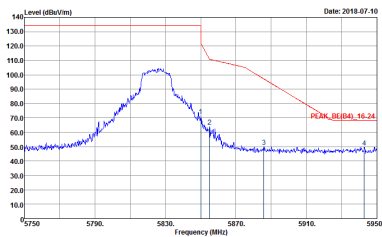
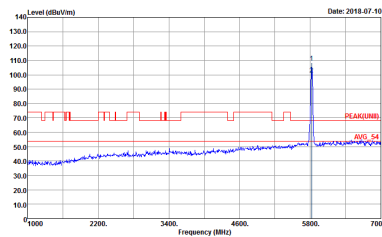


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank



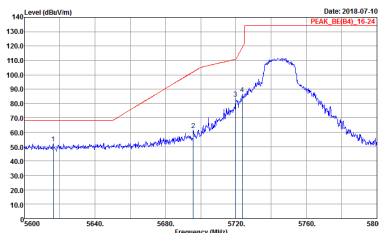
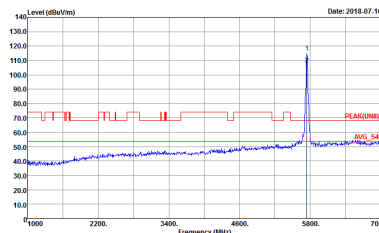
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

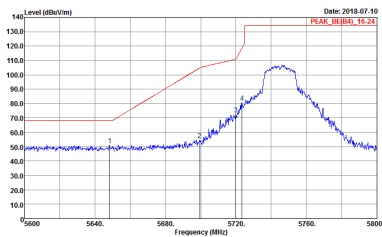
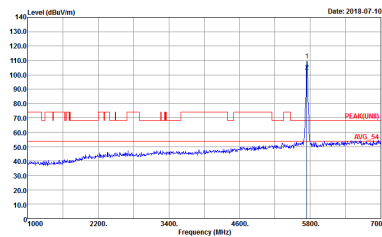
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

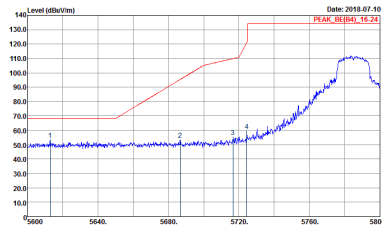
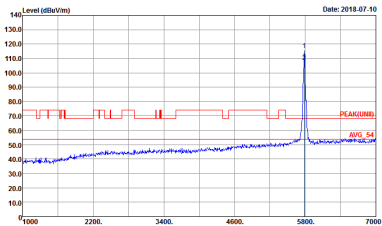
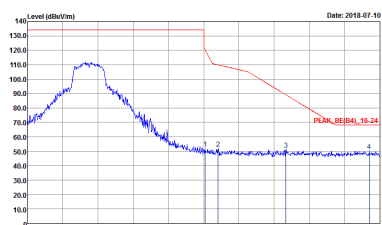


Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_3E(04)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto

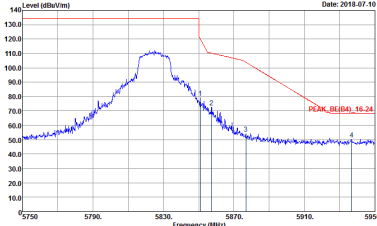
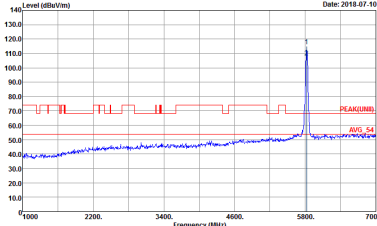


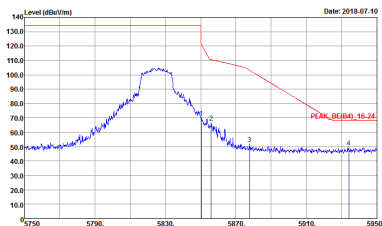
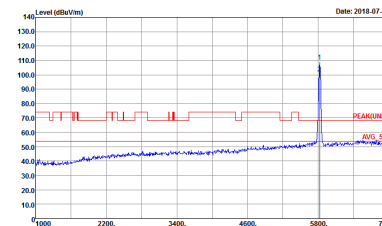
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto
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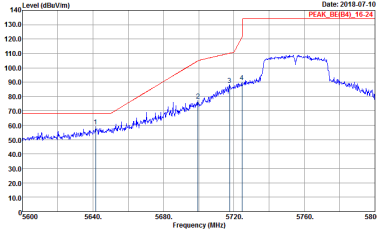
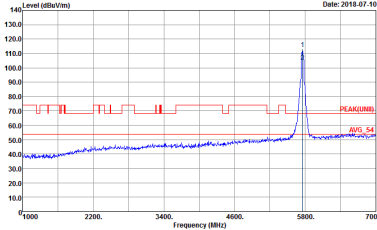
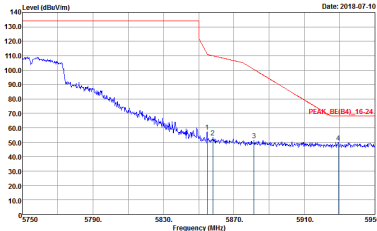
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

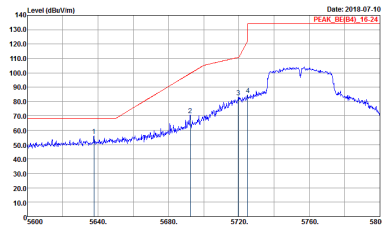
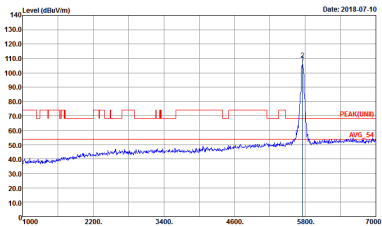
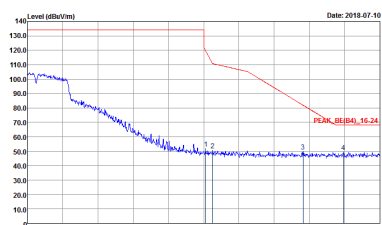


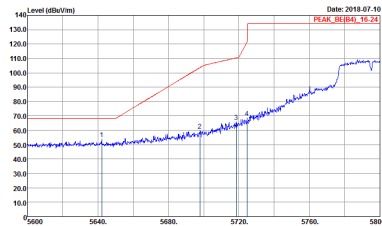
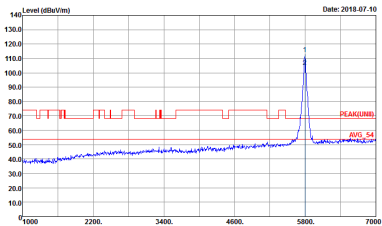
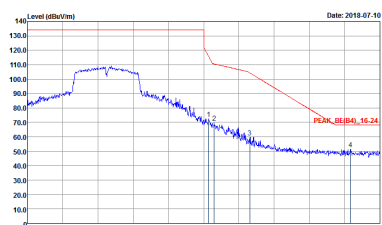
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

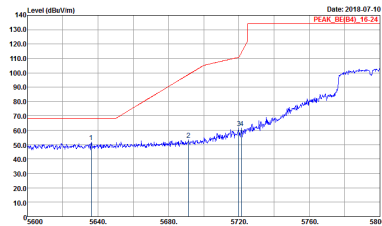
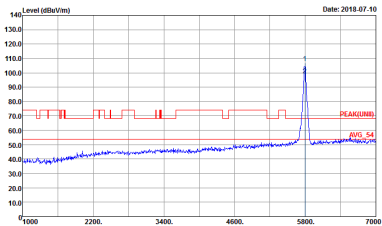
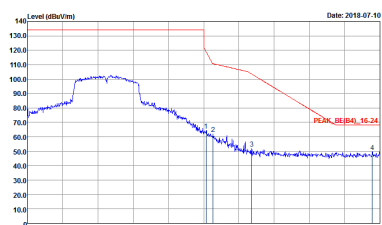
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank

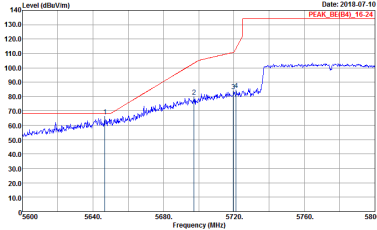
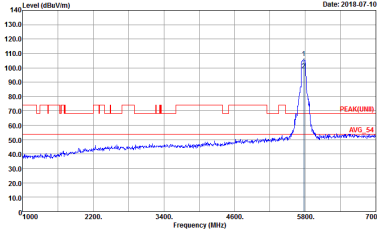
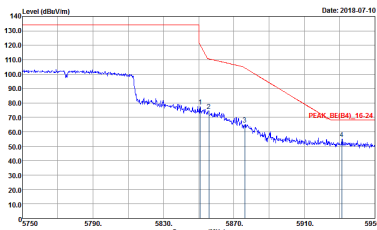
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank



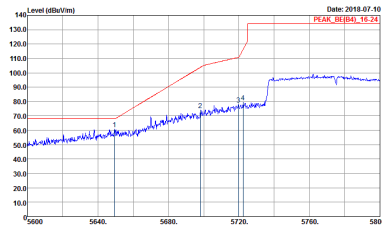
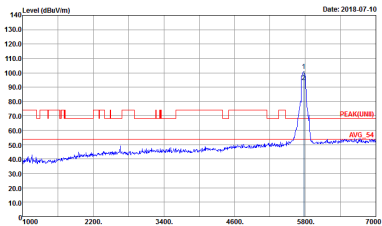
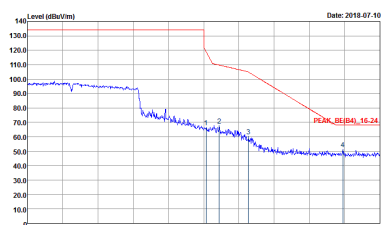
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT: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 : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto	Left blank



Band 4 - 5725~5850MHz

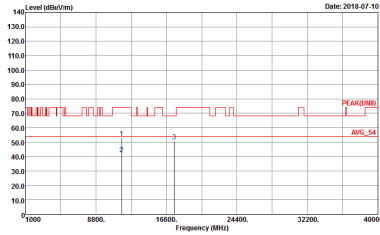
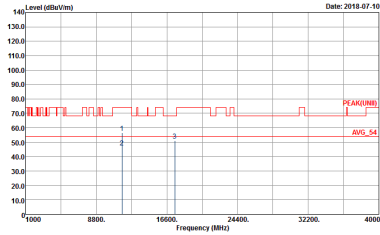
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



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



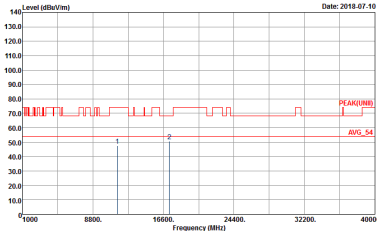
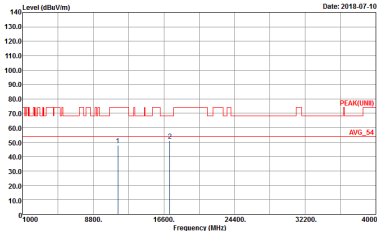
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UWB) 3m SHF-EHF_131029 VERTICAL



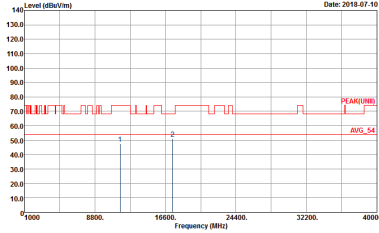
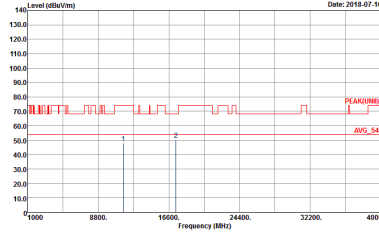
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAK(UHB) 3m SHF-EHF_131029 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UHB) 3m SHF-EHF_131029 VERTICAL



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

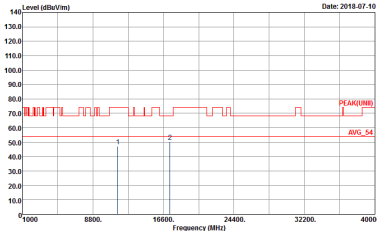
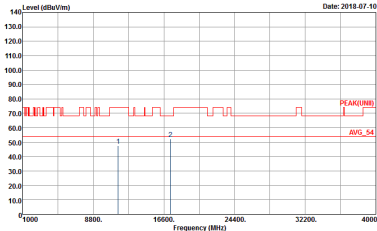
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m SHF-EHF_131029 VERTICAL



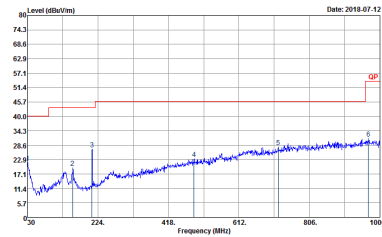
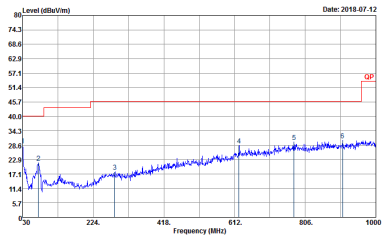
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : PEAK(VIII) 3m SHF-EHF_131029 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(VIII) 3m SHF-EHF_131029 VERTICAL



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

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

WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL

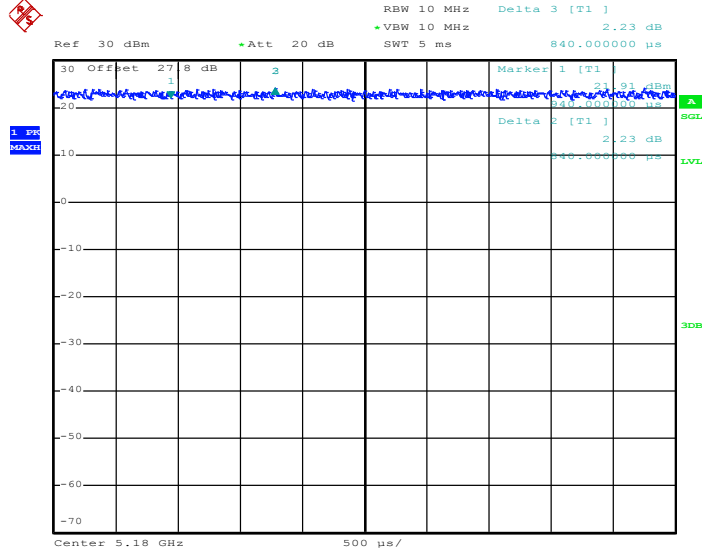
Appendix E. Duty Cycle Plots

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



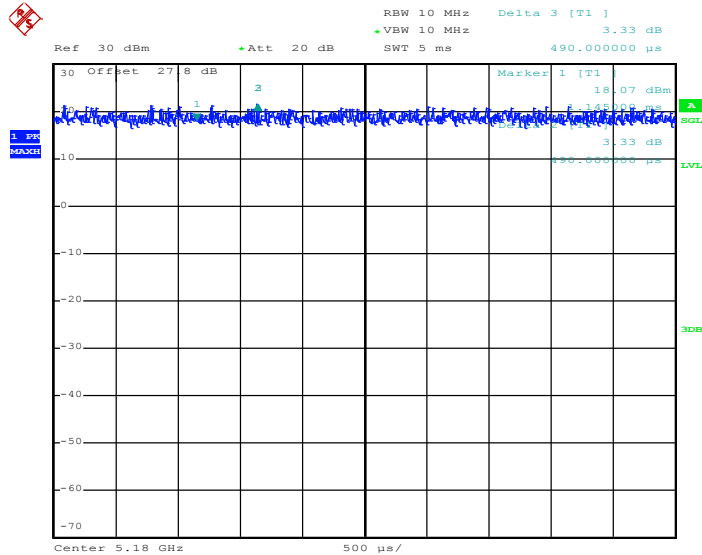
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802.11a



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

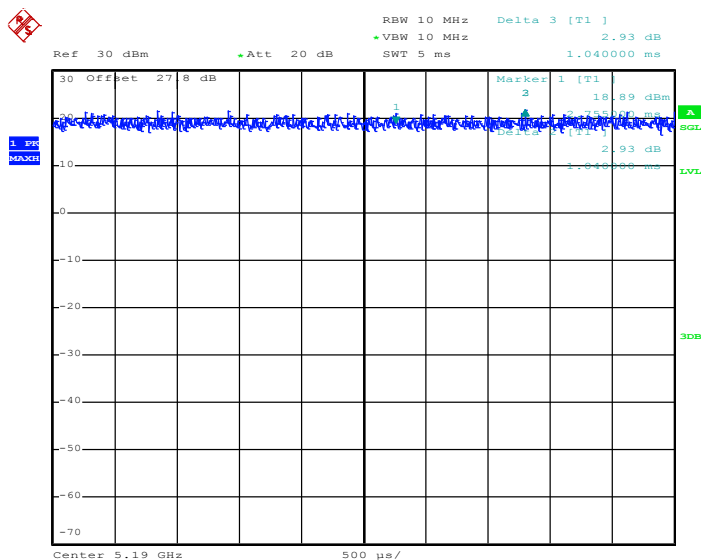
802.11n HT20



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

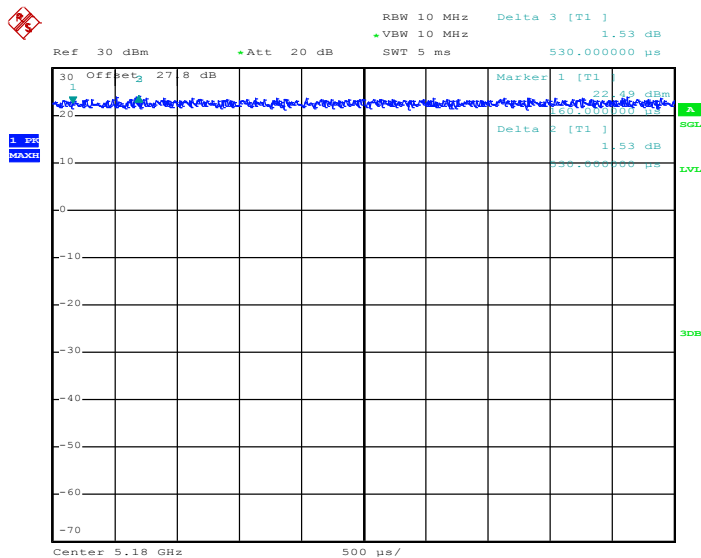


802.11n HT40



Date: 5.JUL.2018 04:39:40

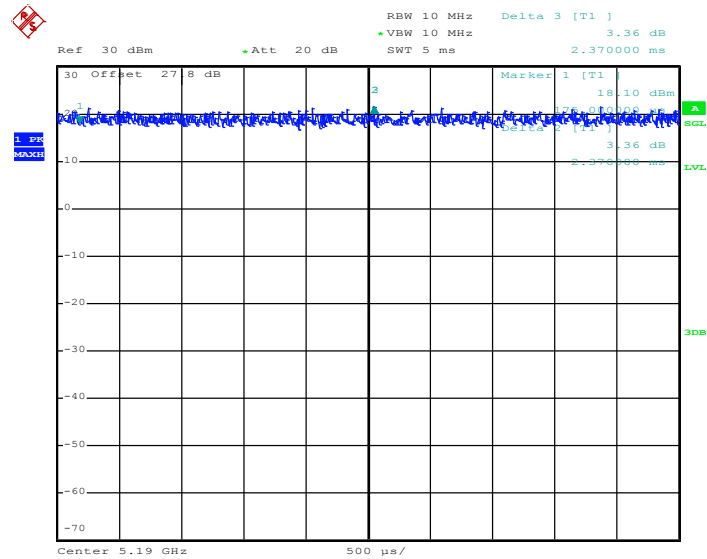
802.11ac VHT20



Date: 5.JUL.2018 04:24:31

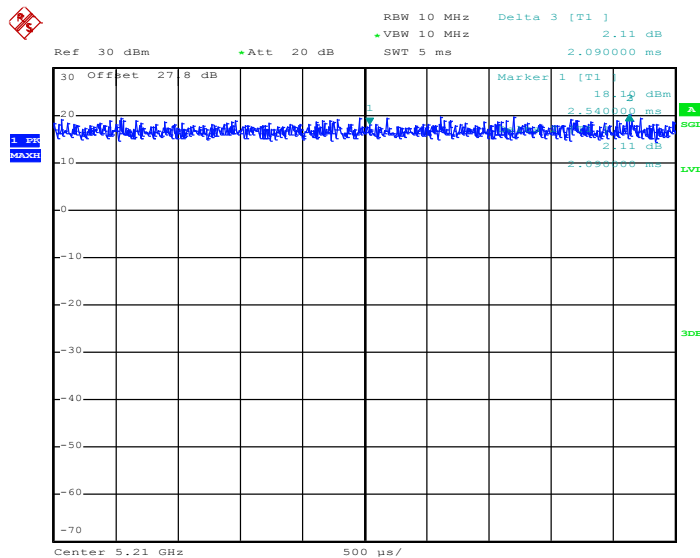


802.11ac VHT40



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

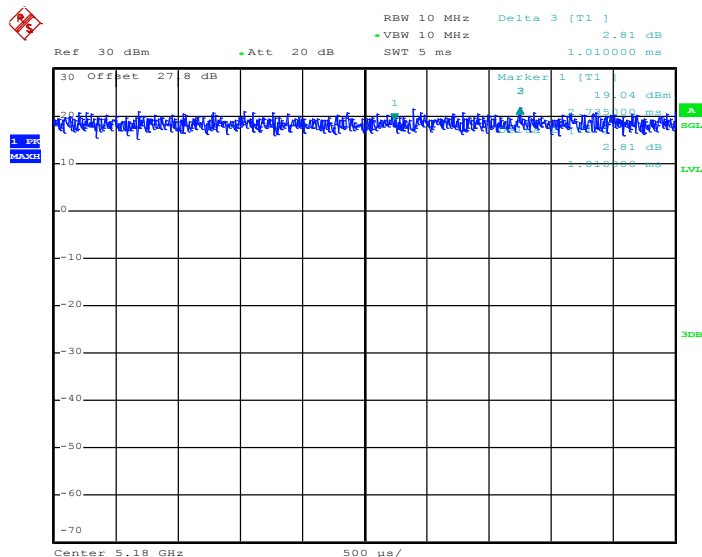
802.11ac VHT80



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

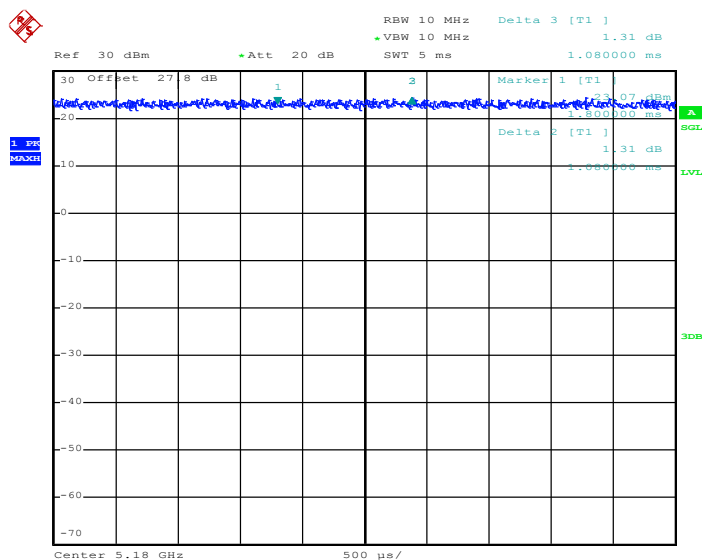
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802.11a



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

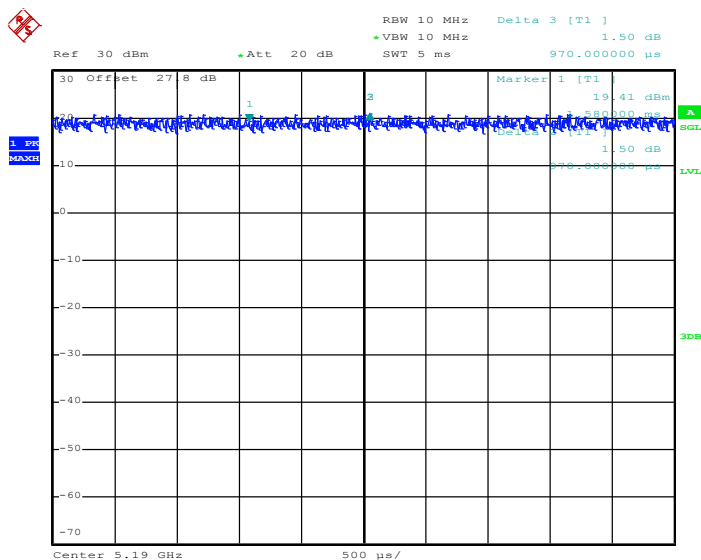
802.11n HT20



Date: 5.JUL.2018 04:05:45

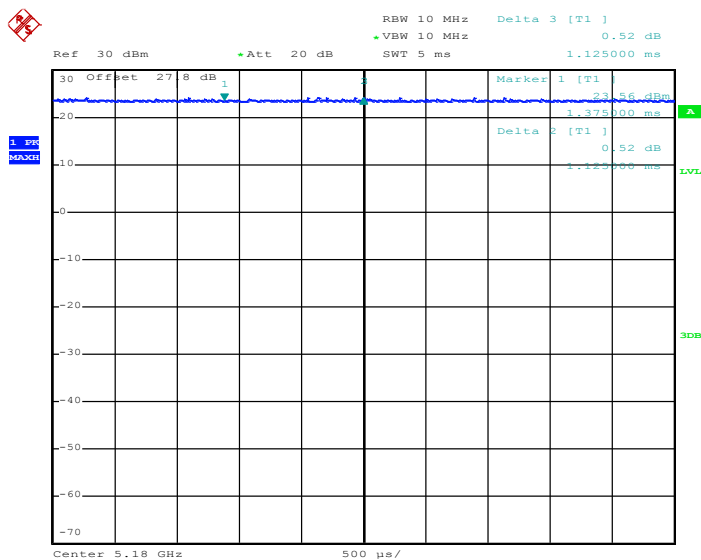


802.11n HT40



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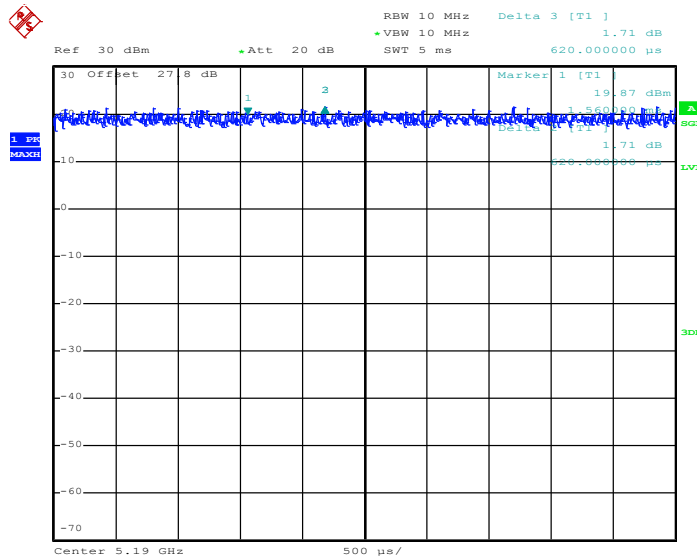
802.11ac VHT20



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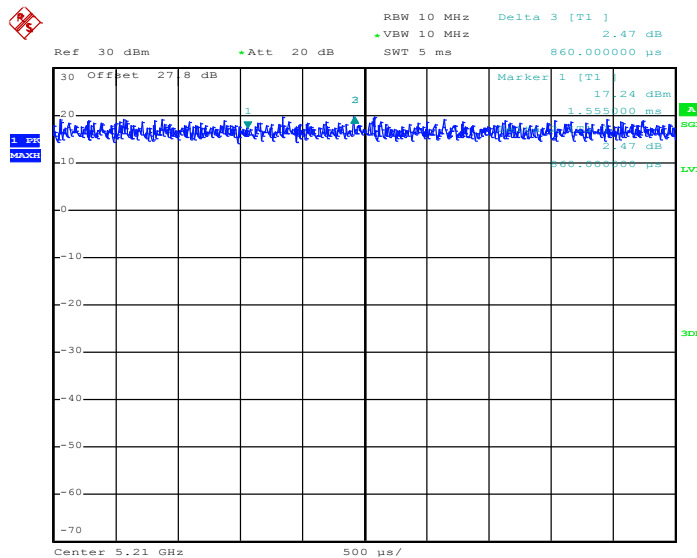


802.11ac VHT40



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

802.11ac VHT80



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

————THE END————