



FCC RADIO TEST REPORT

FCC ID : B32V240MPLUSU
Equipment : Point of Sales Terminal
Brand Name : Verifone
Model Name : V240m Plus 3GBWU, V240m Plus 3GBWCU
Applicant : Verifone, Inc.
1400 West Stanford Ranch Road, Suite 200,
Rocklin CA 95765 USA
Manufacturer : Verifone, Inc.
Standard : FCC Part 15 Subpart E §15.407

The product was received on Nov. 04, 2020 and testing was started from Nov. 16, 2020 and completed on Dec. 10, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR862115-01F	01	Initial issue of report	Dec. 14, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
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	Under limit 5.21 dB at 17355.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.89 dB at 0.478 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Yimin Ho

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard		
SKU 1	EUT with Camera	
SKU 2	EUT without Camera	
Antenna Type	WWAN: PIFA Antenna WLAN: FPC Antenna Bluetooth: FPC Antenna RFID: Loop Antenna	
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	2.80

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

Specification of Accessory		
AC Adapter 1	Brand Name	Verifone
	Manufacturer	PHIHONG
	Model Name	AM11A-050A
	Power Rating	Input : 100-240Vac, 0.5A Output: 5Vdc, 2.2A, 11W
AC Adapter 2	Brand Name	Verifone
	Manufacturer	Salcomp
	Model Name	VF0402
	Power Rating	Input : 100-240Vac, 0.5A Output: 5Vdc, 2.2A, 11W
AC Adapter 3	Brand Name	Verifone
	Manufacturer	Salcomp
	Model Name	SC1402
	Power Rating	Input : 100-240Vac, 0.15A Output: 5Vdc, 1A, 5W
AC Adapter 4	Brand Name	Verifone
	Manufacturer	Leader
	Model Name	MU06-E050100-A1
	Power Rating	Input : 100-240Vac, 0.18A Output: 5Vdc, 1A, 5W
Battery	Brand Name	Verifone
	Model Name	BPK474-001

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, 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.

FCC designation No.: TW1190

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane for SUK 1 and Y plane for SKU 2) 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.

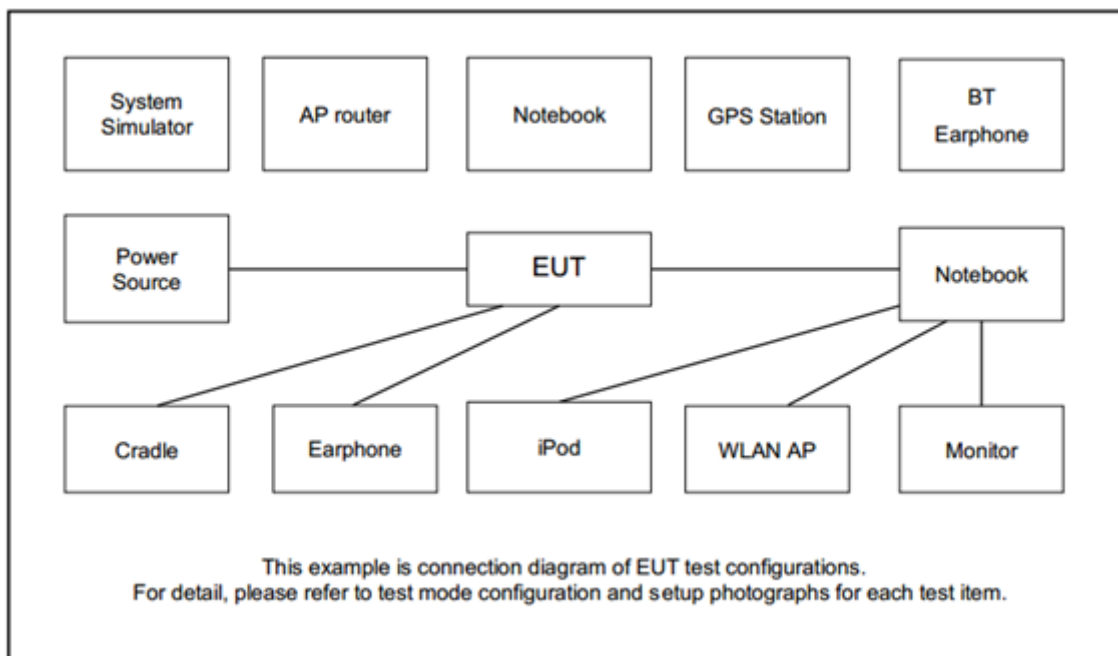
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : RFID On + Bluetooth TX + WLAN (5GHz) Link + MSR Card + Smart Card + Adapter 1 + Speaker + Display for SKU 2
	Mode 2 : RFID On + Bluetooth TX + WLAN (5GHz) Link + MSR Card + Smart Card + Adapter 1 + Speaker + Display + Camera + LED for SKU 1
Remark: 1. The worst case of conducted emission is mode 1; only the test data of it was reported. 2. For Radiated Test Cases, the tests were performed with Adapter 1.	

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	-

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
4.	MSR Card	N/A	N/A	N/A	N/A	N/A
5.	Smart Card	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "Tera Term v4.65" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

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

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

26dB and 99% Occupied bandwidth are reporting only.

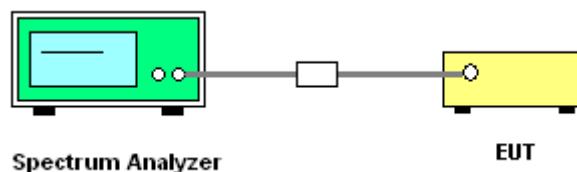
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

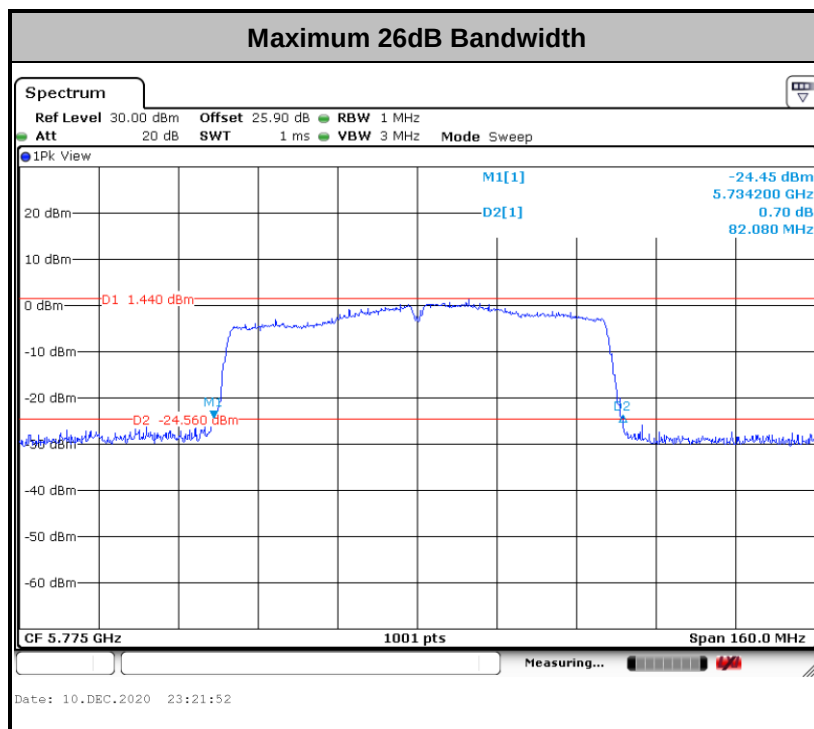
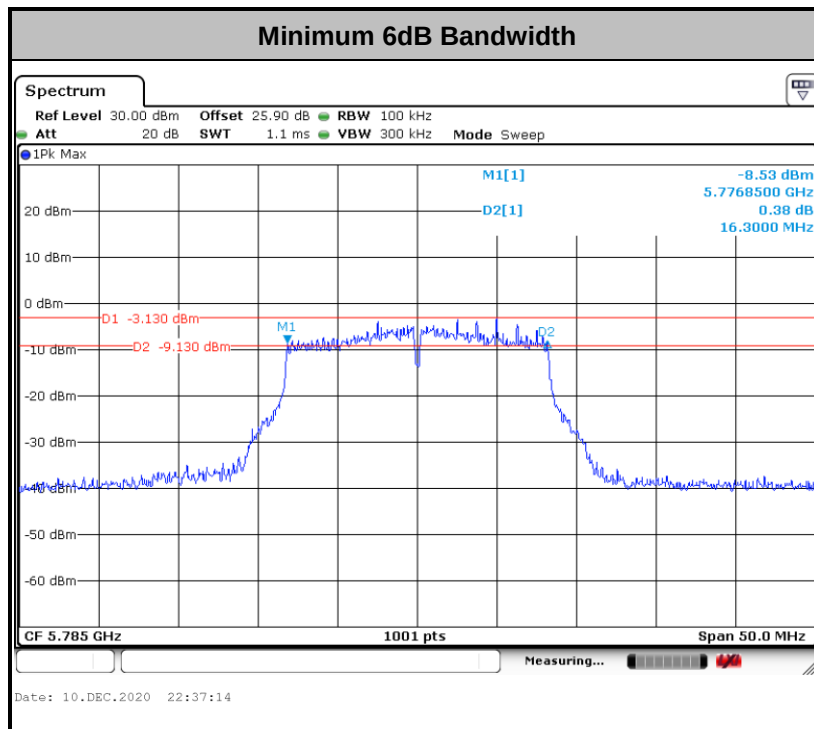
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is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

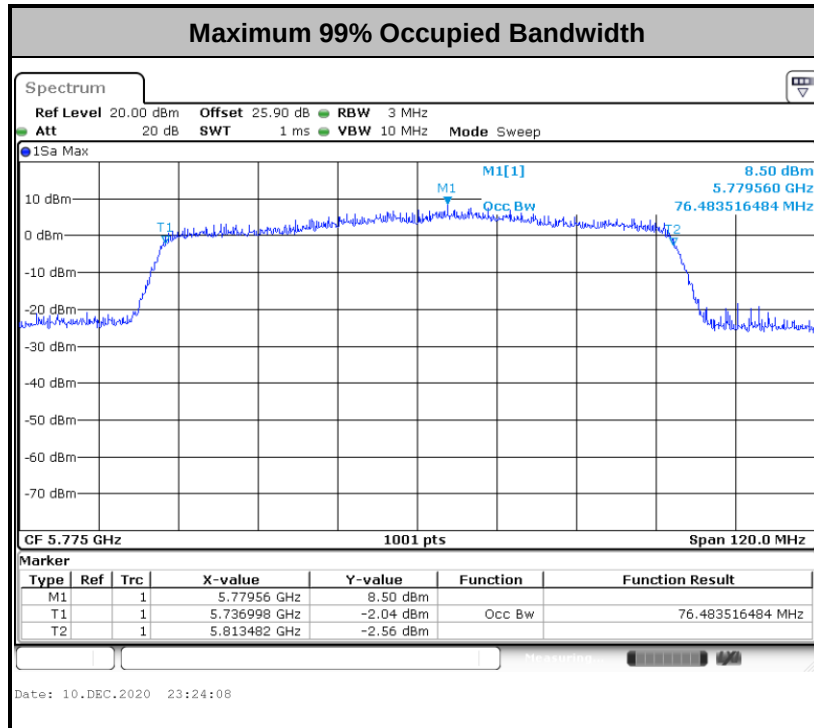
3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.





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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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.

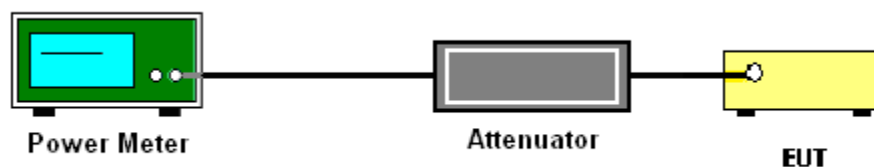
3.2.3 Test Procedures

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

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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

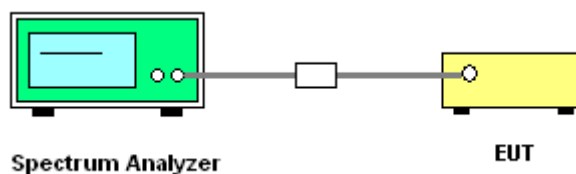
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-3

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

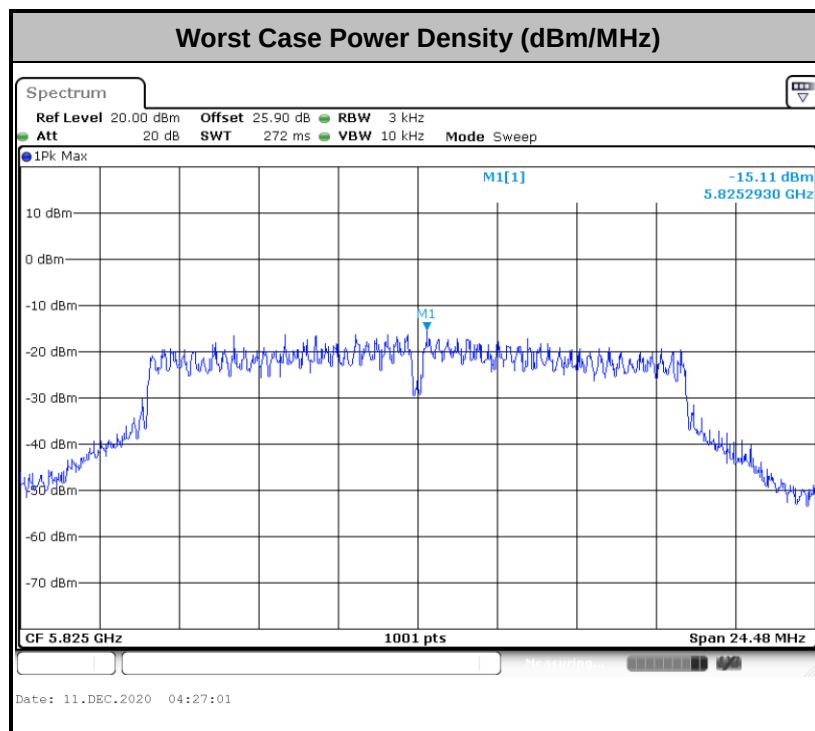
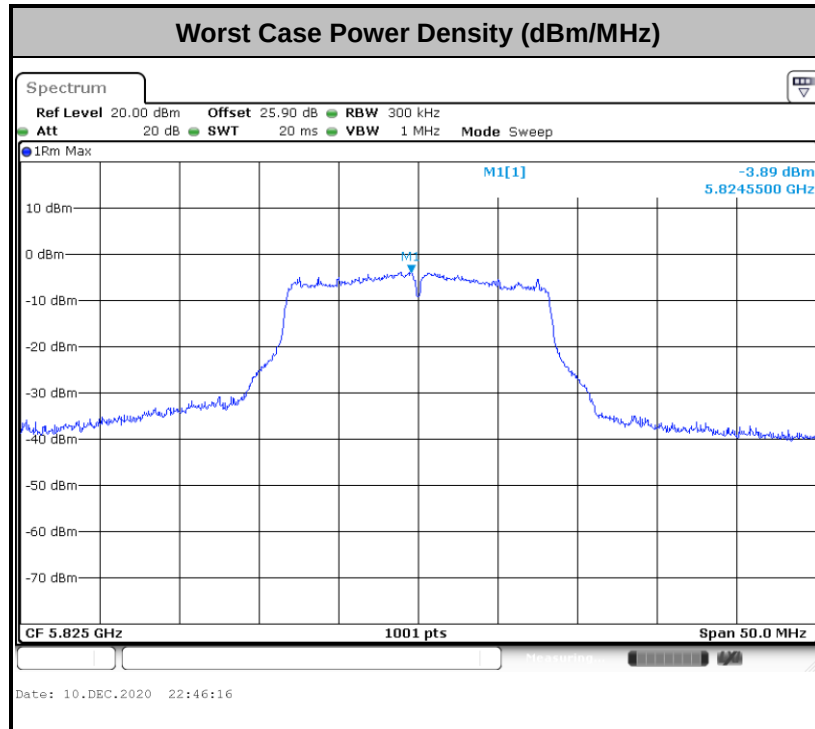
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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

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

3.4.2 Measuring Instruments

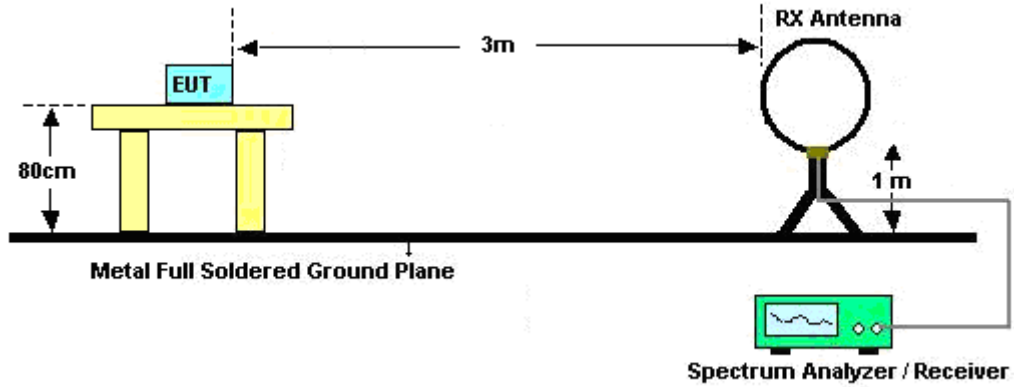
See list of measuring equipment of this test report.

3.4.3 Test Procedures

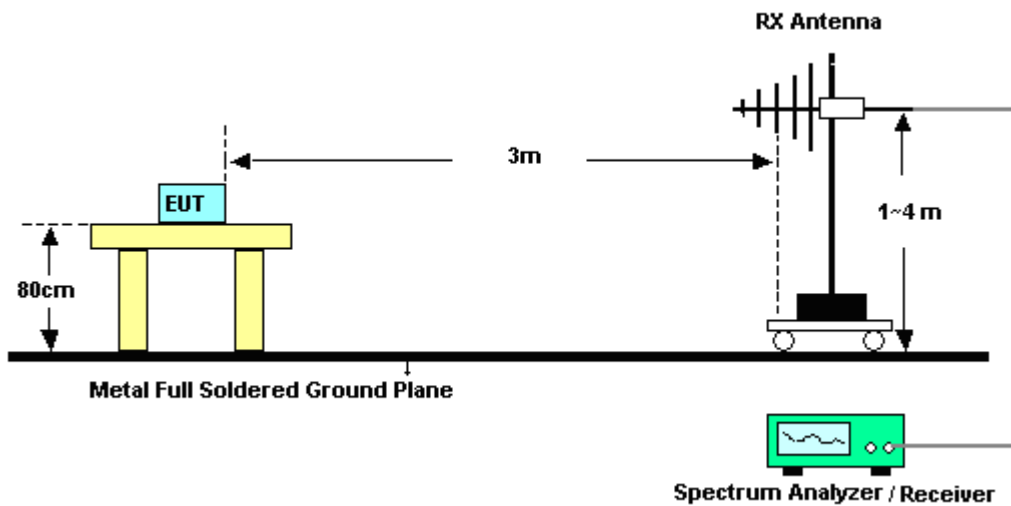
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted 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

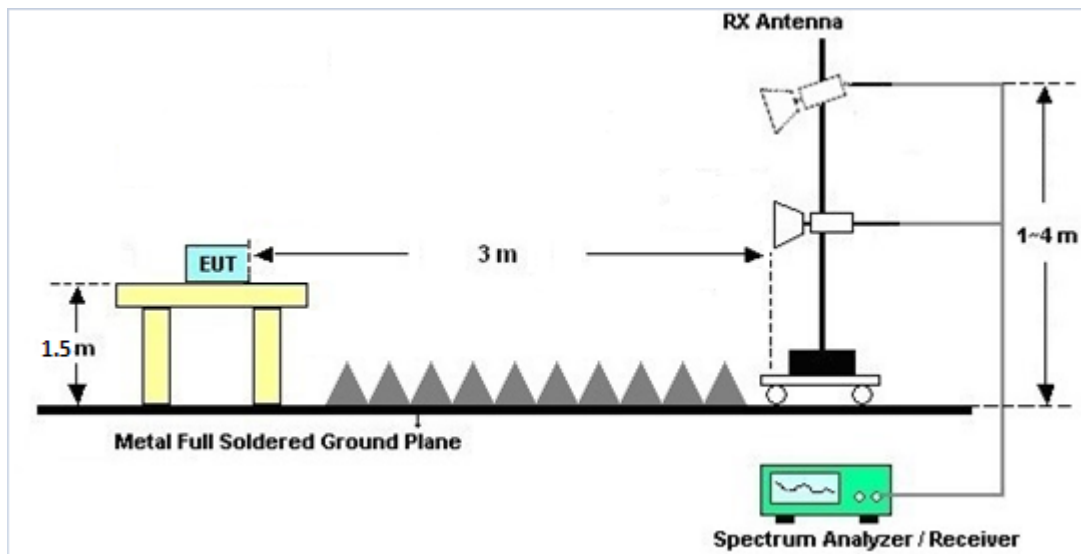
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

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

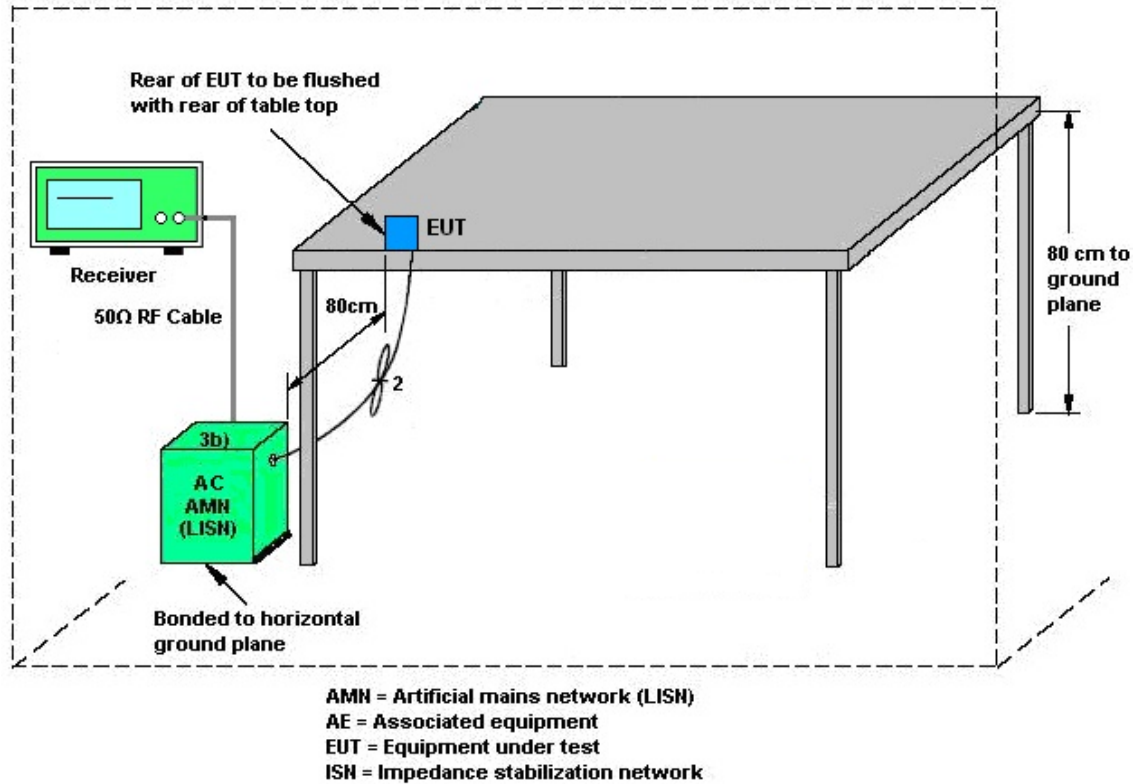
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN 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

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Nov. 24, 2020~ Dec. 07, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Nov. 24, 2020~ Dec. 07, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Nov. 24, 2020~ Nov. 29, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00027880	1GHz ~ 18GHz	Sep. 15, 2020	Nov. 24, 2020~ Dec. 07, 2020	Sep. 14, 2021	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA 9170	BBHA917058 4	18GHz~40GHz	Dec. 10, 2019	Nov. 24, 2020~ Dec. 07, 2020	Dec. 09, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Nov. 24, 2020~ Dec. 07, 2020	May 20, 2021	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jun. 09, 2020	Nov. 24, 2020~ Dec. 07, 2020	Jun. 08, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWE R	PA-103A	161241	10MHz~1GHz	May 19, 2020	Nov. 24, 2020~ Dec. 07, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 23, 2020	Nov. 24, 2020~ Dec. 07, 2020	Apr. 22, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 31, 2020	Nov. 24, 2020~ Dec. 07, 2020	Oct. 30, 2021	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Nov. 24, 2020~ Dec. 07, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 25, 2020	Nov. 24, 2020~ Dec. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Nov. 24, 2020~ Dec. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Nov. 24, 2020~ Dec. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Nov. 24, 2020~ Dec. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 16, 2020~ Nov. 27, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Nov. 16, 2020~ Nov. 27, 2020	Sep. 10, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Nov. 16, 2020~ Nov. 18, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Nov. 19, 2020~ Nov. 27, 2020	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 16, 2020~ Nov. 27, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Nov. 16, 2020~ Nov. 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Nov. 16, 2020~ Nov. 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 16, 2020~ Nov. 27, 2020	Mar. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 17, 2020~ Dec. 10, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SN O10	10MHz~6GHz	Dec. 23, 2019	Nov. 17, 2020~ Dec. 10, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Nov. 17, 2020~ Dec. 10, 2020	Jul. 21, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Nov. 17, 2020~ Dec. 10, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Nov. 17, 2020~ Dec. 10, 2020	Mar. 16, 2021	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	22.5~23.5	°C
Test Date:	2020/11/17~2020/12/10	Relative Humidity:	53.5~55.7	%

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

Band IV single antenna												
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	17.68	-	38.60	-	16.35	-	0.5	Pass
11a	6Mbps	1	157	5785	17.13	-	26.25	-	16.30	-	0.5	Pass
11a	6Mbps	1	165	5825	17.28	-	30.65	-	16.30	-	0.5	Pass
HT20	MCS0	1	149	5745	18.28	-	26.95	-	17.55	-	0.5	Pass
HT20	MCS0	1	157	5785	18.08	-	22.45	-	17.50	-	0.5	Pass
HT20	MCS0	1	165	5825	18.18	-	23.90	-	17.35	-	0.5	Pass
HT40	MCS0	1	151	5755	37.16	-	58.41	-	36.09	-	0.5	Pass
HT40	MCS0	1	159	5795	36.76	-	40.77	-	35.10	-	0.5	Pass
VHT80	MCS0	1	155	5775	76.48	-	82.08	-	75.20	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	10.20	-		30.00	-	2.80	-	Pass
11a	6Mbps	1	157	5785	9.20	-		30.00	-	2.80	-	Pass
11a	6Mbps	1	165	5825	9.50	-		30.00	-	2.80	-	Pass
HT20	MCS0	1	149	5745	9.70	-		30.00	-	2.80	-	Pass
HT20	MCS0	1	157	5785	8.80	-		30.00	-	2.80	-	Pass
HT20	MCS0	1	165	5825	9.30	-		30.00	-	2.80	-	Pass
HT40	MCS0	1	151	5755	9.20	-		30.00	-	2.80	-	Pass
HT40	MCS0	1	159	5795	8.90	-		30.00	-	2.80	-	Pass
VHT20	MCS0	1	149	5745	9.60	-		30.00	-	2.80	-	Pass
VHT20	MCS0	1	157	5785	8.70	-		30.00	-	2.80	-	Pass
VHT20	MCS0	1	165	5825	9.20	-		30.00	-	2.80	-	Pass
VHT40	MCS0	1	151	5755	9.10	-		30.00	-	2.80	-	Pass
VHT40	MCS0	1	159	5795	8.80	-		30.00	-	2.80	-	Pass
VHT80	MCS0	1	155	5775	8.90	-		30.00	-	2.80	-	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	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	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	2.22	-	-1.81	-		30.00	-	2.80	-	Pass
11a	6Mbps	1	157	5785	2.22	-	-2.18	-		30.00	-	2.80	-	Pass
11a	6Mbps	1	165	5825	2.22	-	-1.67	-		30.00	-	2.80	-	Pass
HT20	MCS0	1	149	5745	2.22	-	-2.52	-		30.00	-	2.80	-	Pass
HT20	MCS0	1	157	5785	2.22	-	-3.06	-		30.00	-	2.80	-	Pass
HT20	MCS0	1	165	5825	2.22	-	-1.85	-		30.00	-	2.80	-	Pass
HT40	MCS0	1	151	5755	2.22	-	-4.68	-		30.00	-	2.80	-	Pass
HT40	MCS0	1	159	5795	2.22	-	-5.16	-		30.00	-	2.80	-	Pass
VHT80	MCS0	1	155	5775	2.22	-	-7.80	-		30.00	-	2.80	-	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/3kHz)			Average PSD Limit (dBm/3kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	-15.40	-		14.00	-	2.80	-	Pass
11a	6Mbps	1	157	5785	-15.30	-		14.00	-	2.80	-	Pass
11a	6Mbps	1	165	5825	-15.11	-		14.00	-	2.80	-	Pass
HT20	MCS0	1	149	5745	-15.57	-		14.00	-	2.80	-	Pass
HT20	MCS0	1	157	5785	-15.26	-		14.00	-	2.80	-	Pass
HT20	MCS0	1	165	5825	-15.37	-		14.00	-	2.80	-	Pass
HT40	MCS0	1	151	5755	-18.93	-		14.00	-	2.80	-	Pass
HT40	MCS0	1	159	5795	-19.10	-		14.00	-	2.80	-	Pass
VHT80	MCS0	1	155	5775	-19.55	-		14.00	-	2.80	-	Pass



Appendix B. AC Conducted Emission Test Results

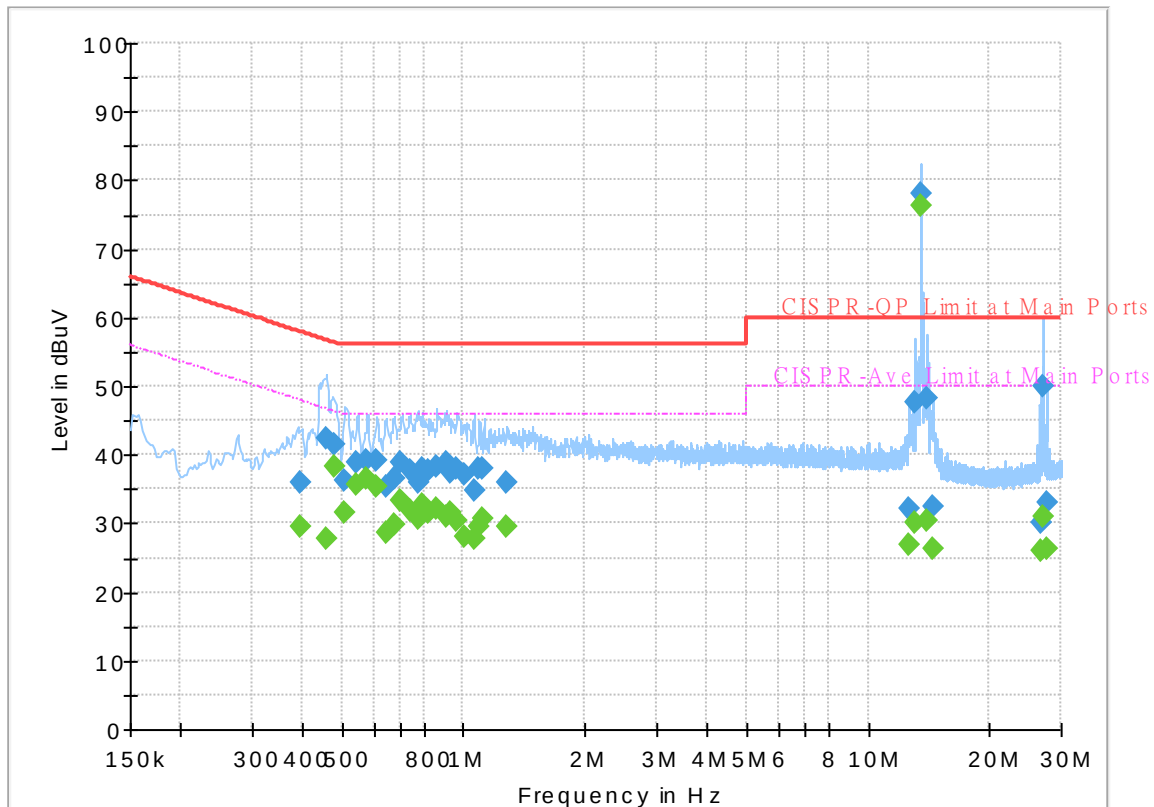
Test Engineer :	Tom Lee and Howard Huang	Temperature :	24~26℃
		Relative Humidity :	40~48%

Original

EUT Information

Report NO : 862115-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

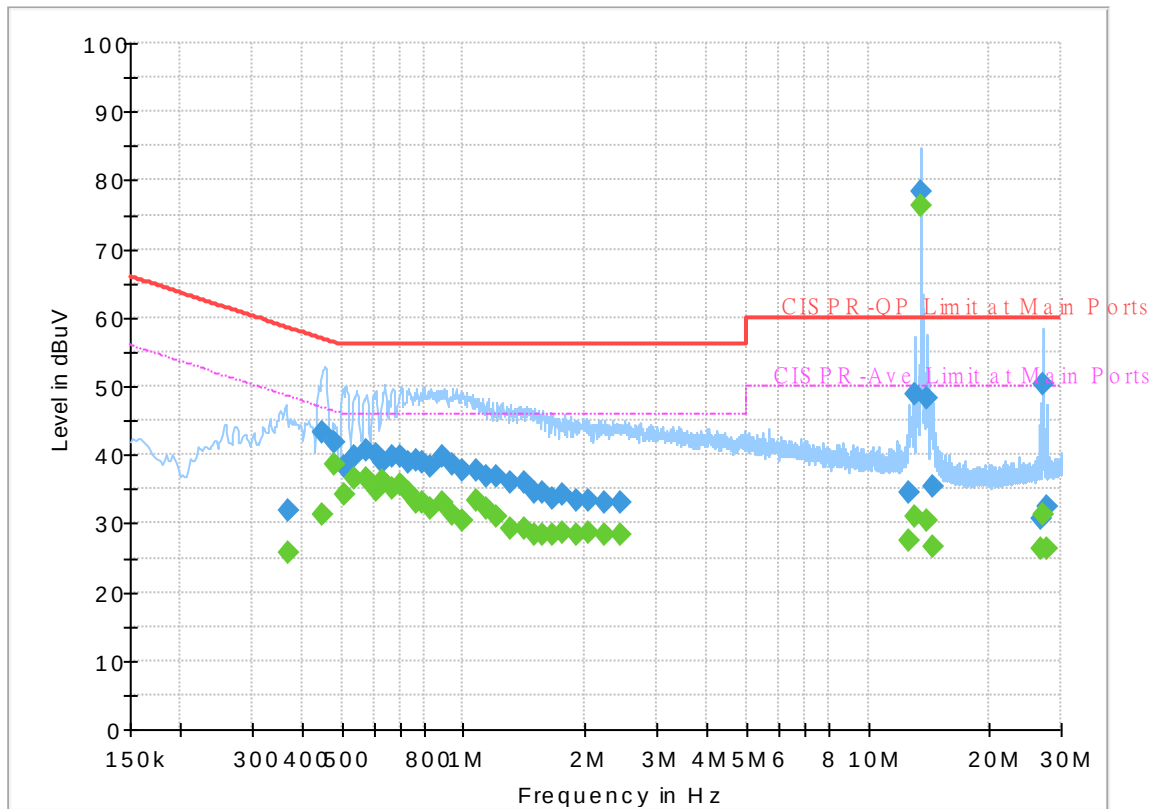
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.393000	---	29.67	48.00	18.33	L1	OFF	19.4
0.393000	35.83	---	58.00	22.17	L1	OFF	19.4
0.457080	---	27.91	46.75	18.84	L1	OFF	19.4
0.457080	42.26	---	56.75	14.49	L1	OFF	19.4
0.479040	---	38.20	46.36	8.16	L1	OFF	19.4
0.479040	41.59	---	56.36	14.77	L1	OFF	19.4
0.508290	---	31.65	46.00	14.35	L1	OFF	19.5
0.508290	36.16	---	56.00	19.84	L1	OFF	19.5
0.543480	---	35.67	46.00	10.33	L1	OFF	19.5
0.543480	38.90	---	56.00	17.10	L1	OFF	19.5
0.573000	---	36.60	46.00	9.40	L1	OFF	19.5
0.573000	39.18	---	56.00	16.82	L1	OFF	19.5
0.606750	---	35.24	46.00	10.76	L1	OFF	19.5
0.606750	39.17	---	56.00	16.83	L1	OFF	19.5
0.644010	---	28.73	46.00	17.27	L1	OFF	19.5
0.644010	35.49	---	56.00	20.51	L1	OFF	19.5
0.675150	---	29.94	46.00	16.06	L1	OFF	19.5
0.675150	36.57	---	56.00	19.43	L1	OFF	19.5
0.702330	---	33.46	46.00	12.54	L1	OFF	19.5
0.702330	38.96	---	56.00	17.04	L1	OFF	19.5
0.736440	---	31.86	46.00	14.14	L1	OFF	19.5

0.736440	37.62	---	56.00	18.38	L1	OFF	19.5
0.774690	---	30.59	46.00	15.41	L1	OFF	19.5
0.774690	36.02	---	56.00	19.98	L1	OFF	19.5
0.792420	---	32.60	46.00	13.40	L1	OFF	19.5
0.792420	38.06	---	56.00	17.94	L1	OFF	19.5
0.818250	---	31.49	46.00	14.51	L1	OFF	19.5
0.818250	37.67	---	56.00	18.33	L1	OFF	19.5
0.855870	---	32.16	46.00	13.84	L1	OFF	19.5
0.855870	38.20	---	56.00	17.80	L1	OFF	19.5
0.904380	---	30.99	46.00	15.01	L1	OFF	19.5
0.904380	38.95	---	56.00	17.05	L1	OFF	19.5
0.928500	---	31.70	46.00	14.30	L1	OFF	19.5
0.928500	37.50	---	56.00	18.50	L1	OFF	19.5
0.963240	---	30.34	46.00	15.66	L1	OFF	19.5
0.963240	38.05	---	56.00	17.95	L1	OFF	19.5
1.009140	---	28.18	46.00	17.82	L1	OFF	19.5
1.009140	37.04	---	56.00	18.96	L1	OFF	19.5
1.068000	---	27.90	46.00	18.10	L1	OFF	19.5
1.068000	34.68	---	56.00	21.32	L1	OFF	19.5
1.090770	---	29.56	46.00	16.44	L1	OFF	19.5
1.090770	37.90	---	56.00	18.10	L1	OFF	19.5
1.119750	---	30.65	46.00	15.35	L1	OFF	19.5
1.119750	38.12	---	56.00	17.88	L1	OFF	19.5
1.275000	---	29.65	46.00	16.35	L1	OFF	19.5
1.275000	35.98	---	56.00	20.02	L1	OFF	19.5
12.628140	---	27.04	50.00	22.96	L1	OFF	20.0
12.628140	32.22	---	60.00	27.78	L1	OFF	20.0
13.107390	---	30.05	50.00	19.95	L1	OFF	20.0
13.107390	47.69	---	60.00	12.31	L1	OFF	20.0
13.560000	---	76.34	50.00	-26.34	L1	OFF	20.0
13.560000	78.14	---	60.00	-18.14	L1	OFF	20.0
14.005500	---	30.41	50.00	19.59	L1	OFF	20.0
14.005500	48.13	---	60.00	11.87	L1	OFF	20.0
14.488620	---	26.27	50.00	23.73	L1	OFF	20.1
14.488620	32.57	---	60.00	27.43	L1	OFF	20.1
26.641500	---	25.99	50.00	24.01	L1	OFF	20.4
26.641500	30.18	---	60.00	29.82	L1	OFF	20.4
27.120000	---	30.86	50.00	19.14	L1	OFF	20.4
27.120000	49.90	---	60.00	10.10	L1	OFF	20.4
27.570840	---	26.20	50.00	23.80	L1	OFF	20.4
27.570840	33.12	---	60.00	26.88	L1	OFF	20.4

EUT Information

Report NO : 862115-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.368250	---	25.78	48.54	22.76	N	OFF	19.5
0.368250	31.94	---	58.54	26.60	N	OFF	19.5
0.449250	---	31.26	46.89	15.63	N	OFF	19.5
0.449250	43.23	---	56.89	13.66	N	OFF	19.5
0.477870	---	38.49	46.38	7.89	N	OFF	19.5
0.477870	41.82	---	56.38	14.56	N	OFF	19.5
0.508020	---	34.17	46.00	11.83	N	OFF	19.5
0.508020	38.22	---	56.00	17.78	N	OFF	19.5
0.539250	---	36.41	46.00	9.59	N	OFF	19.5
0.539250	39.67	---	56.00	16.33	N	OFF	19.5
0.573000	---	36.60	46.00	9.40	N	OFF	19.5
0.573000	40.54	---	56.00	15.46	N	OFF	19.5
0.605760	---	34.88	46.00	11.12	N	OFF	19.5
0.605760	40.06	---	56.00	15.94	N	OFF	19.5
0.633750	---	36.27	46.00	9.73	N	OFF	19.5
0.633750	38.75	---	56.00	17.25	N	OFF	19.5
0.668490	---	35.16	46.00	10.84	N	OFF	19.5
0.668490	39.64	---	56.00	16.36	N	OFF	19.5
0.696750	---	35.81	46.00	10.19	N	OFF	19.5
0.696750	39.67	---	56.00	16.33	N	OFF	19.5
0.728250	---	34.42	46.00	11.58	N	OFF	19.5

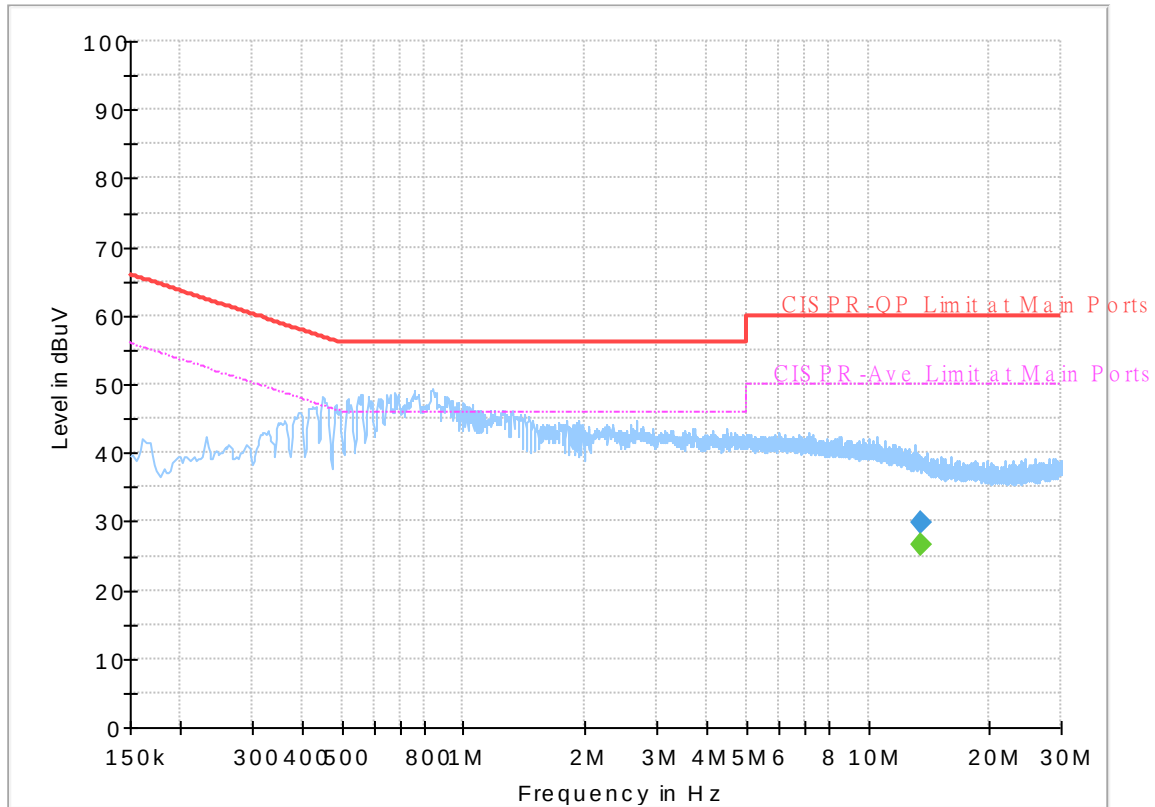
0.728250	38.76	---	56.00	17.24	N	OFF	19.5
0.762900	---	32.97	46.00	13.03	N	OFF	19.5
0.762900	39.07	---	56.00	16.93	N	OFF	19.5
0.795390	---	33.14	46.00	12.86	N	OFF	19.5
0.795390	38.89	---	56.00	17.11	N	OFF	19.5
0.827250	---	32.20	46.00	13.80	N	OFF	19.6
0.827250	38.32	---	56.00	17.68	N	OFF	19.6
0.888810	---	33.18	46.00	12.82	N	OFF	19.6
0.888810	39.79	---	56.00	16.21	N	OFF	19.6
0.944250	---	31.41	46.00	14.59	N	OFF	19.6
0.944250	38.66	---	56.00	17.34	N	OFF	19.6
0.993750	---	30.54	46.00	15.46	N	OFF	19.6
0.993750	37.61	---	56.00	18.39	N	OFF	19.6
1.079250	---	33.20	46.00	12.80	N	OFF	19.6
1.079250	37.82	---	56.00	18.18	N	OFF	19.6
1.144500	---	32.07	46.00	13.93	N	OFF	19.6
1.144500	36.87	---	56.00	19.13	N	OFF	19.6
1.211370	---	30.93	46.00	15.07	N	OFF	19.6
1.211370	36.90	---	56.00	19.10	N	OFF	19.6
1.306320	---	29.17	46.00	16.83	N	OFF	19.6
1.306320	36.04	---	56.00	19.96	N	OFF	19.6
1.410000	---	29.34	46.00	16.66	N	OFF	19.6
1.410000	35.96	---	56.00	20.04	N	OFF	19.6
1.500360	---	28.48	46.00	17.52	N	OFF	19.6
1.500360	34.65	---	56.00	21.35	N	OFF	19.6
1.569750	---	28.37	46.00	17.63	N	OFF	19.6
1.569750	34.53	---	56.00	21.47	N	OFF	19.6
1.668750	---	28.25	46.00	17.75	N	OFF	19.6
1.668750	33.61	---	56.00	22.39	N	OFF	19.6
1.754250	---	28.78	46.00	17.22	N	OFF	19.6
1.754250	34.26	---	56.00	21.74	N	OFF	19.6
1.909500	---	28.39	46.00	17.61	N	OFF	19.6
1.909500	33.22	---	56.00	22.78	N	OFF	19.6
2.042250	---	28.55	46.00	17.45	N	OFF	19.7
2.042250	33.39	---	56.00	22.61	N	OFF	19.7
2.230980	---	28.39	46.00	17.61	N	OFF	19.7
2.230980	32.98	---	56.00	23.02	N	OFF	19.7
2.442750	---	28.32	46.00	17.68	N	OFF	19.7
2.442750	33.00	---	56.00	23.00	N	OFF	19.7
12.655500	---	27.37	50.00	22.63	N	OFF	20.1
12.655500	34.46	---	60.00	25.54	N	OFF	20.1
13.116210	---	30.98	50.00	19.02	N	OFF	20.1
13.116210	48.79	---	60.00	11.21	N	OFF	20.1
13.560000	---	76.43	50.00	-26.43	N	OFF	20.2
13.560000	78.28	---	60.00	-18.28	N	OFF	20.2
13.998750	---	30.45	50.00	19.55	N	OFF	20.2
13.998750	48.10	---	60.00	11.90	N	OFF	20.2
14.468280	---	26.57	50.00	23.43	N	OFF	20.2
14.468280	35.52	---	60.00	24.48	N	OFF	20.2
26.647530	---	26.33	50.00	23.67	N	OFF	20.6
26.647530	30.78	---	60.00	29.22	N	OFF	20.6
27.120000	---	31.38	50.00	18.62	N	OFF	20.6
27.120000	50.20	---	60.00	9.80	N	OFF	20.6
27.565080	---	26.42	50.00	23.58	N	OFF	20.7
27.565080	32.53	---	60.00	27.47	N	OFF	20.7

Terminal

EUT Information

Report NO : 862115-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	26.48	50.00	23.52	L1	OFF	20.1
13.560000	29.70	---	60.00	30.30	L1	OFF	20.1

EUT Information

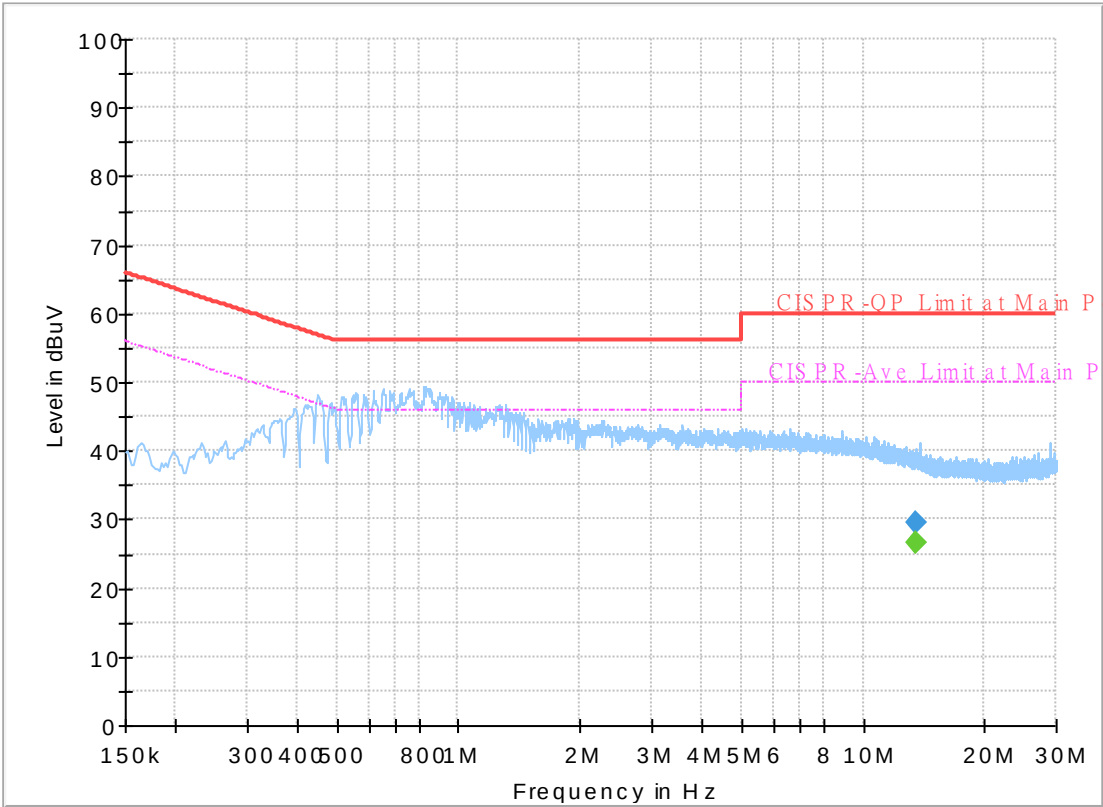
Report NO :862115-01

Test Mode :Mode 1

Test Voltage :120Vac/60Hz

Phase :Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	26.48	50.00	23.52	N	OFF	20.2
13.560000	29.59	---	60.00	30.41	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23~25°C
		Relative Humidity :	53~60%

<SKU 1>

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 157 5785MHz		5646.8	48.89	-19.31	68.2	37.12	34.8	12.12	35.15	100	118	P	H
		5690.8	48.29	-50.13	98.42	36.26	35	12.19	35.16	100	118	P	H
		5719	57.39	-53.13	110.52	45.31	35	12.24	35.16	100	118	P	H
		5723.8	58.37	-61.09	119.46	46.29	35	12.24	35.16	100	118	P	H
	*	5785	109.87	-	-	97.69	35	12.35	35.17	100	118	P	H
	*	5785	101.67	-	-	89.49	35	12.35	35.17	100	118	A	H
		5852.8	51.72	-64.1	115.82	39.5	35	12.4	35.18	100	118	P	H
		5855.2	51.55	-59.19	110.74	39.26	35.07	12.4	35.18	100	118	P	H
		5881.4	48.37	-52.08	100.45	36.02	35.13	12.41	35.19	100	118	P	H
		5947.6	49.58	-18.62	68.2	37.14	35.2	12.44	35.2	100	118	P	H
													H
		5647.2	47.5	-20.7	68.2	35.73	34.8	12.12	35.15	100	50	P	V
		5697.8	49.29	-54.29	103.58	37.25	35	12.2	35.16	100	50	P	V
		5717.6	56.93	-53.2	110.13	44.86	35	12.23	35.16	100	50	P	V
		5724.8	58.09	-63.65	121.74	46	35	12.25	35.16	100	50	P	V
	*	5785	110.57	-	-	98.39	35	12.35	35.17	100	50	P	V
	*	5785	102.47	-	-	90.29	35	12.35	35.17	100	50	A	V
		5850	54.54	-67.66	122.2	42.32	35	12.4	35.18	100	50	P	V
		5855.6	50.86	-59.77	110.63	38.57	35.07	12.4	35.18	100	50	P	V
		5922.6	50.23	-19.74	69.97	37.8	35.2	12.43	35.2	100	50	P	V
		5938.4	48.76	-19.44	68.2	36.32	35.2	12.44	35.2	100	50	P	V
													V

**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 157 5785MHz		11570	56.33	-17.67	74	57.01	38.07	18.59	57.34	100	173	P	H
		11570	46.89	-7.11	54	47.57	38.07	18.59	57.34	100	173	A	H
		17355	59.05	-9.15	68.2	51	41.35	23.05	56.35	100	0	P	H
													H
		11570	54.82	-19.18	74	55.5	38.07	18.59	57.34	112	285	P	V
		11570	45.29	-8.71	54	45.97	38.07	18.59	57.34	112	285	A	V
		17355	60.44	-7.76	68.2	52.39	41.35	23.05	56.35	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		30.27	21.86	-18.14	40	26.62	24.32	0.93	30.01	-	-	P	H
		136.38	22.63	-20.87	43.5	33.17	17.47	1.95	29.96	-	-	P	H
		272.46	24.29	-21.71	46	32.61	18.81	2.78	29.91	-	-	P	H
		647.9	30.37	-15.63	46	29.59	26.21	4.32	29.75	-	-	P	H
		797.7	32.17	-13.83	46	29.03	27.75	4.84	29.45	-	-	P	H
		941.2	32.56	-13.44	46	26.32	29.75	5.24	28.75	100	0	P	H
													H
													H
													H
													H
													H
													H
													H
		30	31.59	-8.41	40	36.35	24.32	0.93	30.01	100	0	P	V
		42.15	24.31	-15.69	40	35.52	17.69	1.1	30	-	-	P	V
		56.73	24.55	-15.45	40	41.27	12	1.27	29.99	-	-	P	V
		639.5	30.22	-15.78	46	29.58	26.12	4.29	29.77	-	-	P	V
		897.8	31.73	-14.27	46	26.92	28.7	5.11	29	-	-	P	V
		951	32.51	-13.49	46	25.68	30.26	5.26	28.69	-	-	P	V
													V
												V	
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<SKU 2>

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		5647.4	50.31	-17.89	68.2	38.54	34.8	12.12	35.15	349	65	P	H
		5700	62.9	-42.3	105.2	50.86	35	12.2	35.16	349	65	P	H
		5719.2	74.91	-35.67	110.58	62.83	35	12.24	35.16	349	65	P	H
		5724.2	78.45	-41.93	120.38	66.37	35	12.24	35.16	349	65	P	H
	*	5745	111.48	-	-	99.37	35	12.28	35.17	349	65	P	H
	*	5745	104.17	-	-	92.06	35	12.28	35.17	349	65	A	H
													H
													H
		5616.2	49.87	-18.33	68.2	38.04	34.9	12.07	35.14	100	133	P	V
		5695.2	68.1	-33.56	101.66	56.06	35	12.2	35.16	100	133	P	V
		5719.2	74.43	-36.15	110.58	62.35	35	12.24	35.16	100	133	P	V
		5725	79.89	-42.31	122.2	67.8	35	12.25	35.16	100	133	P	V
	*	5745	111.01	-	-	98.9	35	12.28	35.17	100	133	P	V
	*	5745	103.65	-	-	91.54	35	12.28	35.17	100	133	A	V
													V
													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		5640.8	49.11	-19.09	68.2	37.35	34.8	12.11	35.15	344	77	P	H
		5693.2	49.45	-50.74	100.19	37.42	35	12.19	35.16	344	77	P	H
		5715	52.04	-57.36	109.4	39.97	35	12.23	35.16	344	77	P	H
		5725	53.37	-68.83	122.2	41.28	35	12.25	35.16	344	77	P	H
	*	5785	110.4	-	-	98.22	35	12.35	35.17	344	77	P	H
	*	5785	102.73	-	-	90.55	35	12.35	35.17	344	77	A	H
		5853.8	49.3	-64.24	113.54	37.01	35.07	12.4	35.18	344	77	P	H
		5870.4	51.7	-54.79	106.49	39.41	35.07	12.41	35.19	344	77	P	H
		5915	49.75	-25.82	75.57	37.32	35.2	12.43	35.2	344	77	P	H
		5946	50.23	-17.97	68.2	37.79	35.2	12.44	35.2	344	77	P	H
													H
													H
		5607.8	50.07	-18.13	68.2	38.16	35	12.05	35.14	100	131	P	V
		5691	50.66	-47.9	98.56	38.63	35	12.19	35.16	100	131	P	V
		5716	59.41	-50.27	109.68	47.34	35	12.23	35.16	100	131	P	V
		5721.8	57.77	-57.13	114.9	45.69	35	12.24	35.16	100	131	P	V
	*	5785	110.16	-	-	97.98	35	12.35	35.17	100	131	P	V
	*	5785	102.6	-	-	90.42	35	12.35	35.17	100	131	A	V
		5850.8	53.14	-67.24	120.38	40.92	35	12.4	35.18	100	131	P	V
		5856.8	50.54	-59.76	110.3	38.25	35.07	12.4	35.18	100	131	P	V
		5907	50.14	-31.34	81.48	37.71	35.2	12.42	35.19	100	131	P	V
		5946	50.39	-17.81	68.2	37.95	35.2	12.44	35.2	100	131	P	V
													V
													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	109.03	-	-	96.83	35	12.38	35.18	338	77	P	H
	*	5825	101.53	-	-	89.33	35	12.38	35.18	338	77	A	H
		5850.2	70.1	-51.64	121.74	57.88	35	12.4	35.18	338	77	P	H
		5855.6	64.91	-45.72	110.63	52.62	35.07	12.4	35.18	338	77	P	H
		5875.2	53.72	-51.33	105.05	41.37	35.13	12.41	35.19	338	77	P	H
		5945.8	49.83	-18.37	68.2	37.39	35.2	12.44	35.2	338	77	P	H
													H
													H
	*	5825	109.42	-	-	97.22	35	12.38	35.18	100	131	P	V
	*	5825	101.83	-	-	89.63	35	12.38	35.18	100	131	A	V
		5850.2	71.27	-50.47	121.74	59.05	35	12.4	35.18	100	131	P	V
		5857	66.92	-43.32	110.24	54.63	35.07	12.4	35.18	100	131	P	V
		5875	57.97	-47.23	105.2	45.62	35.13	12.41	35.19	100	131	P	V
		5934.8	51.01	-17.19	68.2	38.57	35.2	12.44	35.2	100	131	P	V
													V
													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	54.49	-19.51	74	55.31	38.18	18.52	57.52	100	6	P	H
		11490	46.89	-7.11	54	47.71	38.18	18.52	57.52	100	6	A	H
		17235	58.7	-9.5	68.2	50.5	41.53	22.98	56.31	100	0	P	H
													H
		11490	54.73	-19.27	74	55.55	38.18	18.52	57.52	100	267	P	V
		11490	46.01	-7.99	54	46.83	38.18	18.52	57.52	100	267	A	V
		17235	59.94	-8.26	68.2	51.74	41.53	22.98	56.31	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	55.83	-18.17	74	56.25	38.33	18.59	57.34	101	2	P	H
		11570	47.08	-6.92	54	47.5	38.33	18.59	57.34	101	2	A	H
		17355	60.27	-7.93	68.2	52.07	41.5	23.05	56.35	100	0	P	H
													H
		11570	55.63	-18.37	74	56.05	38.33	18.59	57.34	110	262	P	V
		11570	46.75	-7.25	54	47.17	38.33	18.59	57.34	110	262	A	V
		17355	62.99	-5.21	68.2	54.79	41.5	23.05	56.35	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	57.13	-16.87	74	57.17	38.44	18.67	57.15	100	5	P	H
		11650	47.14	-6.86	54	47.18	38.44	18.67	57.15	100	5	A	H
		17475	57.58	-10.62	68.2	49.52	41.33	23.11	56.38	100	0	P	H
													H
		11650	56.13	-17.87	74	56.17	38.44	18.67	57.15	108	261	P	V
		11650	46.58	-7.42	54	46.62	38.44	18.67	57.15	108	261	A	V
		17475	59.23	-8.97	68.2	51.17	41.33	23.11	56.38	100	0	P	V
													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		5632.6	48.73	-19.47	68.2	36.99	34.8	12.09	35.15	348	65	P	H
		5697.6	61.84	-41.59	103.43	49.8	35	12.2	35.16	348	65	P	H
		5720	72.51	-38.29	110.8	60.43	35	12.24	35.16	348	65	P	H
		5723.8	83.68	-35.78	119.46	71.6	35	12.24	35.16	348	65	P	H
	*	5745	110.93	-	-	98.82	35	12.28	35.17	348	65	P	H
	*	5745	103.99	-	-	91.88	35	12.28	35.17	348	65	A	H
													H
													H
		5642.4	50.63	-17.57	68.2	38.87	34.8	12.11	35.15	103	132	P	V
		5699	64.43	-40.03	104.46	52.39	35	12.2	35.16	103	132	P	V
		5720	74.82	-35.98	110.8	62.74	35	12.24	35.16	103	132	P	V
		5725	78.93	-43.27	122.2	66.84	35	12.25	35.16	103	132	P	V
	*	5745	110.42	-	-	98.31	35	12.28	35.17	103	132	P	V
	*	5745	103.29	-	-	91.18	35	12.28	35.17	103	132	A	V
													V
													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		5613.6	49.34	-18.86	68.2	37.42	35	12.06	35.14	343	77	P	H
		5679.6	49.73	-40.41	90.14	37.87	34.85	12.17	35.16	343	77	P	H
		5708.4	52.05	-55.5	107.55	39.99	35	12.22	35.16	343	77	P	H
		5725	52.59	-69.61	122.2	40.5	35	12.25	35.16	343	77	P	H
	*	5785	110.39	-	-	98.21	35	12.35	35.17	343	77	P	H
	*	5785	102.77	-	-	90.59	35	12.35	35.17	343	77	A	H
		5851.2	48.99	-70.47	119.46	36.77	35	12.4	35.18	343	77	P	H
		5867.4	49.6	-57.73	107.33	37.32	35.07	12.4	35.19	343	77	P	H
		5910.6	51.23	-27.59	78.82	38.8	35.2	12.43	35.2	343	77	P	H
		5931.4	49.29	-18.91	68.2	36.85	35.2	12.44	35.2	343	77	P	H
													H
													H
		5611.2	50.02	-18.18	68.2	38.1	35	12.06	35.14	100	131	P	V
		5693.4	51.18	-49.15	100.33	39.15	35	12.19	35.16	100	131	P	V
		5717	56.58	-53.38	109.96	44.51	35	12.23	35.16	100	131	P	V
		5725	59.93	-62.27	122.2	47.84	35	12.25	35.16	100	131	P	V
	*	5785	109.54	-	-	97.36	35	12.35	35.17	100	131	P	V
	*	5785	102.3	-	-	90.12	35	12.35	35.17	100	131	A	V
		5853.8	51.1	-62.44	113.54	38.81	35.07	12.4	35.18	100	131	P	V
		5856.6	52.84	-57.51	110.35	40.55	35.07	12.4	35.18	100	131	P	V
		5883.2	50.94	-48.17	99.11	38.59	35.13	12.41	35.19	100	131	P	V
		5925.2	49.67	-18.53	68.2	37.24	35.2	12.43	35.2	100	131	P	V
													V
													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	108.73	-	-	96.53	35	12.38	35.18	338	77	P	H
	*	5825	101.33	-	-	89.13	35	12.38	35.18	338	77	A	H
		5850.2	68.12	-53.62	121.74	55.9	35	12.4	35.18	338	77	P	H
		5855	64	-46.8	110.8	51.71	35.07	12.4	35.18	338	77	P	H
		5876.4	53.04	-51.12	104.16	40.69	35.13	12.41	35.19	338	77	P	H
		5926.6	50.54	-17.66	68.2	38.11	35.2	12.43	35.2	338	77	P	H
													H
													H
	*	5825	109.4	-	-	97.2	35	12.38	35.18	100	131	P	V
	*	5825	101.68	-	-	89.48	35	12.38	35.18	100	131	A	V
		5850.2	68.11	-53.63	121.74	55.89	35	12.4	35.18	100	131	P	V
		5855.6	66.87	-43.76	110.63	54.58	35.07	12.4	35.18	100	131	P	V
		5875.2	57.83	-47.22	105.05	45.48	35.13	12.41	35.19	100	131	P	V
		5933.6	50.06	-18.14	68.2	37.62	35.2	12.44	35.2	100	131	P	V
													V
													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	55.76	-18.24	74	56.58	38.18	18.52	57.52	100	6	P	H
		11490	46.98	-7.02	54	47.8	38.18	18.52	57.52	100	6	A	H
		17235	57.9	-10.3	68.2	49.7	41.53	22.98	56.31	100	0	P	H
													H
		11490	54.23	-19.77	74	55.05	38.18	18.52	57.52	100	267	P	V
		11490	45.21	-8.79	54	46.03	38.18	18.52	57.52	100	267	A	V
		17235	60.25	-7.95	68.2	52.05	41.53	22.98	56.31	100	0	P	V
													V
802.11n HT20 CH 157 5785MHz		11570	56.2	-17.8	74	56.62	38.33	18.59	57.34	100	8	P	H
		11570	46.6	-7.4	54	47.02	38.33	18.59	57.34	100	8	A	H
		17355	60.25	-7.95	68.2	52.05	41.5	23.05	56.35	100	0	P	H
													H
		11570	54.62	-19.38	74	55.04	38.33	18.59	57.34	100	268	P	V
		11570	45.94	-8.06	54	46.36	38.33	18.59	57.34	100	268	A	V
		17355	62.18	-6.02	68.2	53.98	41.5	23.05	56.35	100	0	P	V
													V
802.11n HT20 CH 165 5825MHz		11650	54.83	-19.17	74	54.87	38.44	18.67	57.15	100	7	P	H
		11650	45.8	-8.2	54	45.84	38.44	18.67	57.15	100	7	A	H
		17475	56.89	-11.31	68.2	48.83	41.33	23.11	56.38	100	0	P	H
													H
		11650	55.03	-18.97	74	55.07	38.44	18.67	57.15	110	260	P	V
		11650	45.33	-8.67	54	45.37	38.44	18.67	57.15	110	260	A	V
		17475	58.98	-9.22	68.2	50.92	41.33	23.11	56.38	100	0	P	V
													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		5650	59.4	-8.8	68.2	47.73	34.7	12.12	35.15	366	77	P	H
		5697.4	68.95	-34.33	103.28	56.91	35	12.2	35.16	366	77	P	H
		5717.4	82.48	-27.59	110.07	70.41	35	12.23	35.16	366	77	P	H
		5722.4	83.97	-32.3	116.27	71.89	35	12.24	35.16	366	77	P	H
	*	5755	109	-	-	96.87	35	12.3	35.17	366	77	P	H
	*	5755	101.73	-	-	89.6	35	12.3	35.17	366	77	A	H
		5853.6	56.82	-57.17	113.99	44.53	35.07	12.4	35.18	366	77	P	H
		5856.8	55.09	-55.21	110.3	42.8	35.07	12.4	35.18	366	77	P	H
		5882.8	52.22	-47.19	99.41	39.87	35.13	12.41	35.19	366	77	P	H
		5936.6	50.78	-17.42	68.2	38.34	35.2	12.44	35.2	366	77	P	H
													H
													H
		5644.6	59.43	-8.77	68.2	47.67	34.8	12.11	35.15	100	132	P	V
		5697.6	70.14	-33.29	103.43	58.1	35	12.2	35.16	100	132	P	V
		5719	83.79	-26.73	110.52	71.71	35	12.24	35.16	100	132	P	V
		5722.4	84.09	-32.18	116.27	72.01	35	12.24	35.16	100	132	P	V
	*	5755	108.35	-	-	96.22	35	12.3	35.17	100	132	P	V
	*	5755	101.08	-	-	88.95	35	12.3	35.17	100	132	A	V
		5850	56.21	-65.99	122.2	43.99	35	12.4	35.18	100	132	P	V
		5867.2	56.57	-50.81	107.38	44.29	35.07	12.4	35.19	100	132	P	V
		5880.6	53.64	-47.4	101.04	41.29	35.13	12.41	35.19	100	132	P	V
		5941.6	49.87	-18.33	68.2	37.43	35.2	12.44	35.2	100	132	P	V
													V
													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		5638.8	55.69	-12.51	68.2	43.94	34.8	12.1	35.15	343	76	P	H
		5673.6	60.14	-25.56	85.7	48.28	34.85	12.16	35.15	343	76	P	H
		5708.4	61.25	-46.3	107.55	49.19	35	12.22	35.16	343	76	P	H
		5724.4	64.44	-56.39	120.83	52.35	35	12.25	35.16	343	76	P	H
	*	5795	108.13	-	-	95.94	35	12.36	35.17	343	76	P	H
	*	5795	100.38	-	-	88.19	35	12.36	35.17	343	76	A	H
		5851.4	69.33	-49.68	119.01	57.11	35	12.4	35.18	343	76	P	H
		5872	62.03	-44.01	106.04	49.68	35.13	12.41	35.19	343	76	P	H
		5880	58.87	-42.62	101.49	46.52	35.13	12.41	35.19	343	76	P	H
		5926.2	50.13	-18.07	68.2	37.7	35.2	12.43	35.2	343	76	P	H
													H
													H
		5623	52.31	-15.89	68.2	40.47	34.9	12.08	35.14	100	131	P	V
		5698.6	63.73	-40.44	104.17	51.69	35	12.2	35.16	100	131	P	V
		5713.8	66.85	-42.22	109.07	54.78	35	12.23	35.16	100	131	P	V
		5724.4	66.65	-54.18	120.83	54.56	35	12.25	35.16	100	131	P	V
	*	5795	107.34	-	-	95.15	35	12.36	35.17	100	131	P	V
	*	5795	100.41	-	-	88.22	35	12.36	35.17	100	131	A	V
		5850.8	71.26	-49.12	120.38	59.04	35	12.4	35.18	100	131	P	V
		5857.2	69.8	-40.38	110.18	57.51	35.07	12.4	35.18	100	131	P	V
		5887.4	60.14	-35.85	95.99	47.79	35.13	12.41	35.19	100	131	P	V
		5927.2	55.51	-12.69	68.2	43.08	35.2	12.43	35.2	100	131	P	V
													V
													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	53.54	-20.46	74	54.27	38.2	18.55	57.48	100	14	P	H
		11510	45.13	-8.87	54	45.86	38.2	18.55	57.48	100	14	A	H
		17265	54.4	-13.8	68.2	46.26	41.47	22.99	56.32	100	0	P	H
													H
		11510	52.62	-21.38	74	53.35	38.2	18.55	57.48	100	269	P	V
		11510	44.72	-9.28	54	45.45	38.2	18.55	57.48	100	269	A	V
		17265	57.23	-10.97	68.2	49.09	41.47	22.99	56.32	100	0	P	V
													V
802.11n HT40 CH 159 5795MHz		11590	54.08	-19.92	74	54.39	38.37	18.61	57.29	100	14	P	H
		11590	45.92	-8.08	54	46.23	38.37	18.61	57.29	100	14	A	H
		17385	56.32	-11.88	68.2	48.05	41.57	23.06	56.36	100	0	P	H
													H
		11590	50.87	-23.13	74	51.18	38.37	18.61	57.29	100	0	P	V
		17385	60.04	-8.16	68.2	51.77	41.57	23.06	56.36	100	0	P	V
													V
													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		5649.8	50.27	-17.93	68.2	38.4	34.9	12.12	35.15	100	295	P	H
		5697.2	59.25	-43.89	103.14	47.41	34.8	12.2	35.16	100	295	P	H
		5711.2	61.06	-47.28	108.34	49.2	34.8	12.22	35.16	100	295	P	H
		5722.6	60.95	-55.78	116.73	49.07	34.8	12.24	35.16	100	295	P	H
	*	5775	96.25	-	-	84.22	34.87	12.33	35.17	100	295	P	H
	*	5775	89.69	-	-	77.66	34.87	12.33	35.17	100	295	A	H
		5852.4	51.02	-65.71	116.73	38.8	35	12.4	35.18	100	295	P	H
		5862	49.67	-59.17	108.84	37.43	35.03	12.4	35.19	100	295	P	H
		5876.6	49.21	-54.8	104.01	36.92	35.07	12.41	35.19	100	295	P	H
		5935	49.1	-19.1	68.2	36.69	35.17	12.44	35.2	100	295	P	H
													H
													H
		5629.2	50.35	-17.85	68.2	38.51	34.9	12.09	35.15	103	126	P	V
		5687.8	60.44	-35.76	96.2	48.62	34.8	12.18	35.16	103	126	P	V
		5716.4	61.85	-47.94	109.79	49.98	34.8	12.23	35.16	103	126	P	V
		5720.2	61.51	-49.75	111.26	49.63	34.8	12.24	35.16	103	126	P	V
	*	5775	97.1	-	-	85.07	34.87	12.33	35.17	103	126	P	V
	*	5775	90.11	-	-	78.08	34.87	12.33	35.17	103	126	A	V
		5851	55.58	-64.34	119.92	43.36	35	12.4	35.18	103	126	P	V
		5856.8	50.72	-59.58	110.3	38.47	35.03	12.4	35.18	103	126	P	V
		5878.2	49.97	-52.85	102.82	37.68	35.07	12.41	35.19	103	126	P	V
		5936	49.25	-18.95	68.2	36.84	35.17	12.44	35.2	103	126	P	V
													V
													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 VHT80 CH 155 5775MHz		11550	42.27	-31.73	74	43.02	38.05	18.58	57.38	100	0	P	H
		17325	47.99	-20.21	68.2	39.92	41.38	23.03	56.34	100	0	P	H
													H
													H
		11550	41.85	-32.15	74	42.6	38.05	18.58	57.38	100	0	P	V
		17325	48.09	-20.11	68.2	40.02	41.38	23.03	56.34	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		81.57	24.43	-15.57	40	39.44	13.46	1.51	29.98	-	-	P	H
		134.76	28.6	-14.9	43.5	39.07	17.55	1.94	29.96	-	-	P	H
		150.69	26.6	-16.9	43.5	37.24	17.25	2.06	29.95	-	-	P	H
		631.8	36.42	-9.58	46	35.9	26.03	4.27	29.78	100	0	P	H
		701.8	34.44	-11.56	46	33.27	26.34	4.5	29.67	-	-	P	H
		769	32.91	-13.09	46	29.92	27.79	4.72	29.52	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		30	32.17	-7.83	40	36.93	24.32	0.93	30.01	-	-	P	V
		42.15	31.13	-8.87	40	42.34	17.69	1.1	30	-	-	P	V
		56.73	31.4	-8.6	40	48.12	12	1.27	29.99	-	-	P	V
		636.7	38.65	-7.35	46	38.02	26.12	4.28	29.77	100	0	P	V
		719.3	37.44	-8.56	46	35.76	26.76	4.55	29.63	-	-	P	V
		958.7	34	-12	46	26.93	30.44	5.28	28.65	-	-	P	V
													V
												V	
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	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”.



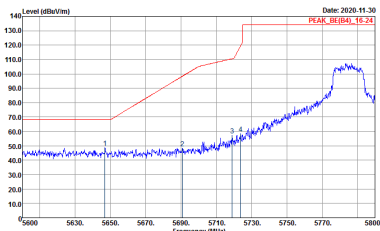
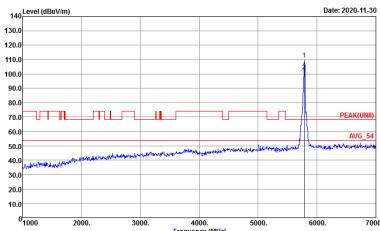
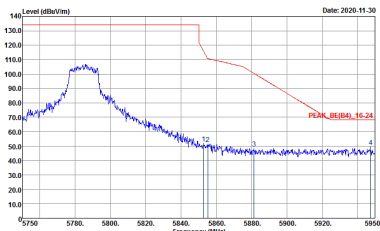
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23~25°C
		Relative Humidity :	53~60%

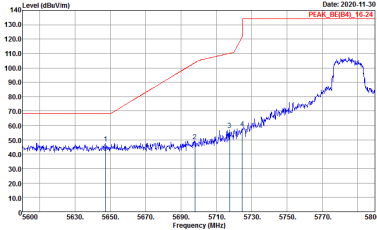
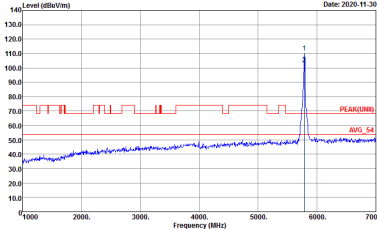
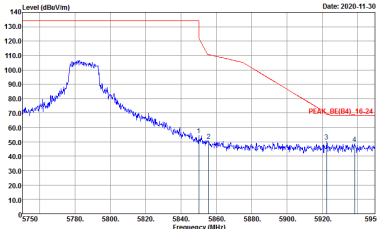


<SKU 1>

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

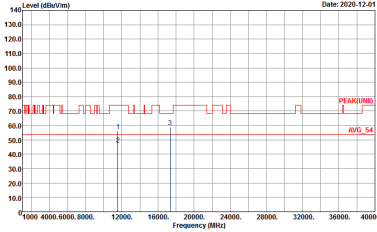
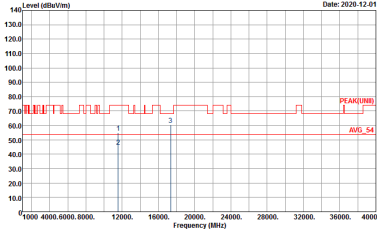
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 862115-01 38	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 862115-01 38
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 862115-01 38	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 Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 38	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 38
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 38	Left blank



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4H Condition : PEAK(UNB) 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 38	 Site : 03CH07-4H Condition : PEAK(UNB) 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 38



Emission below 1GHz

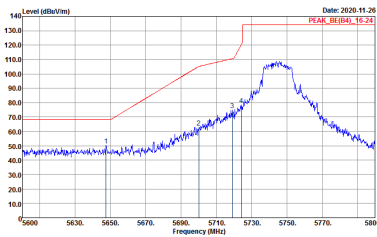
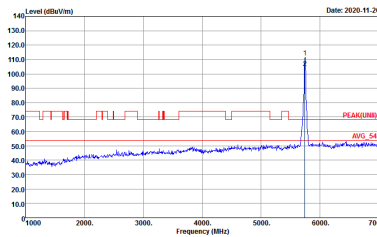
5GHz WIFI 802.11a (LF)

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	Site : 03CH07-HY Condition : QP 3m LF-ANT-15419(s) HORIZONTAL Detector : Peak Project : 862115-01 Mode : 19	Site : 03CH07-HY Condition : QP 3m LF-ANT-15419(s) VERTICAL Detector : Peak Project : 862115-01 Mode : 19

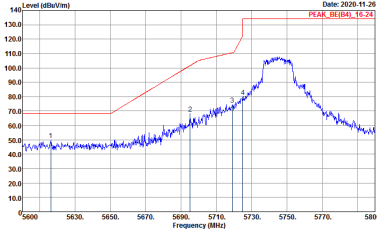
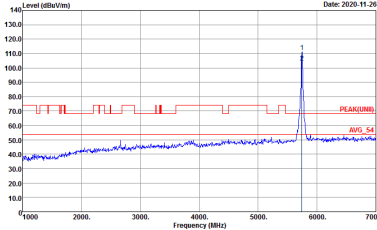


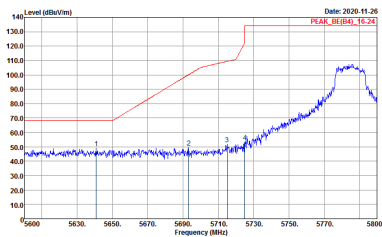
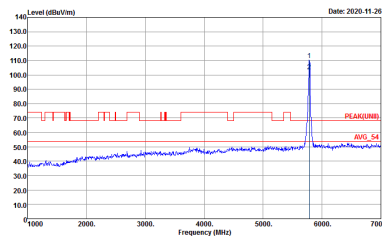
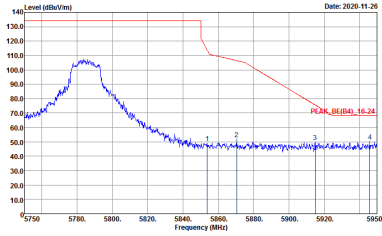
<SKU 2>

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

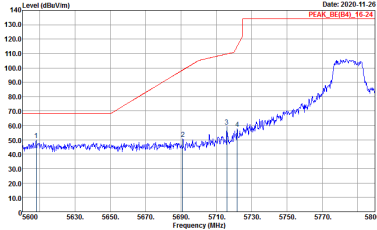
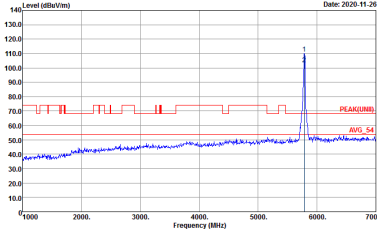
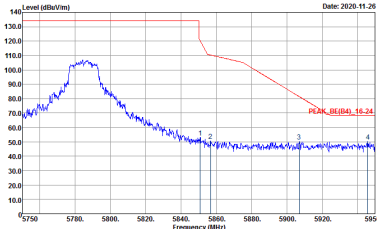
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07 HY Condition : PEAK, BE(B4) 16-24 3m HF, ANT 00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : BE2115-01 Mode : 27	 Site : 03CH07 HY Condition : PEAK, UN(I) 3m HF, ANT 00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : BE2115-01 Mode : 27



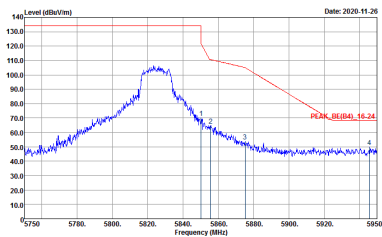
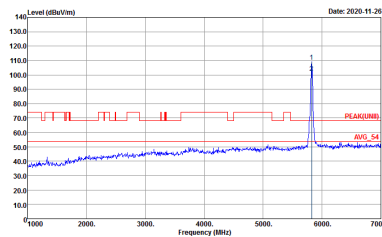
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-01 Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 27	 Site : 03CH07-01 Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 27

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 Detector : Peak Project : 862115-01 Mode : 28	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 28
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 28	Left blank

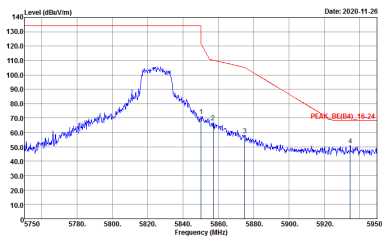
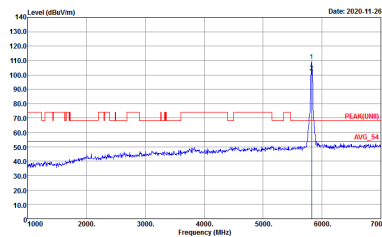


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 28	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 28
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 28	Left blank



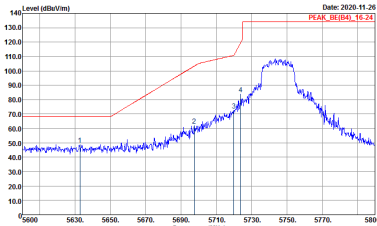
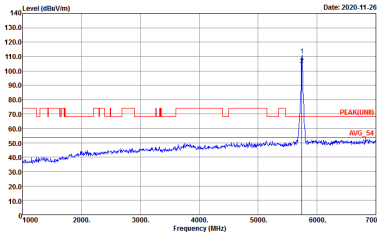
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-01 Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 29	 Site : 03CH07-01 Condition : PEAK(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 29



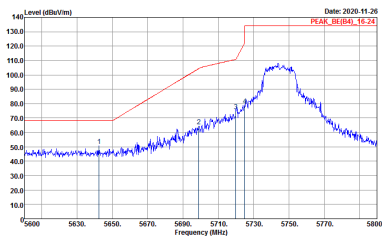
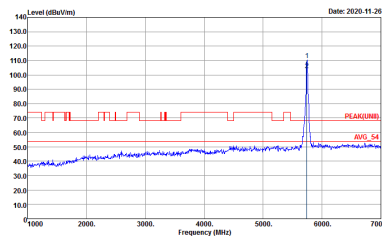
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-01 Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 29	 Site : 03CH07-01 Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 29



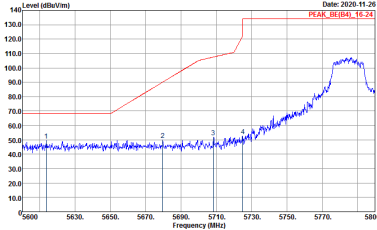
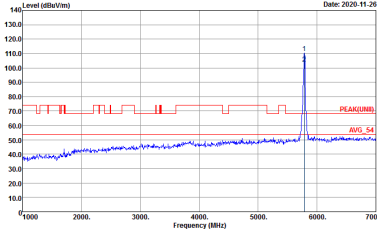
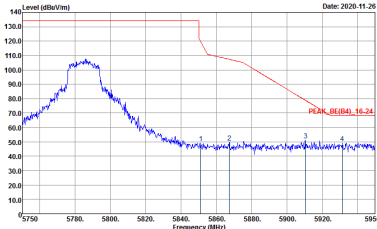
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : PEAK Project : 862115-01 Mode : 30	 Site : 03CH07-HY Condition : PEAK(LNB) 3m HF_ANT_00075962 HORIZONTAL Detector : PEAK Project : 862115-01 Mode : 30

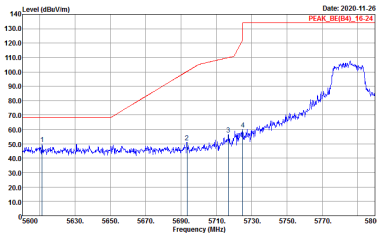
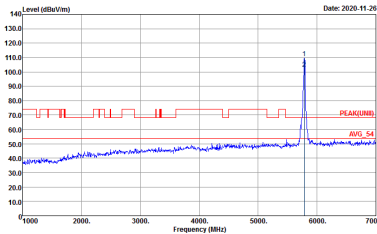
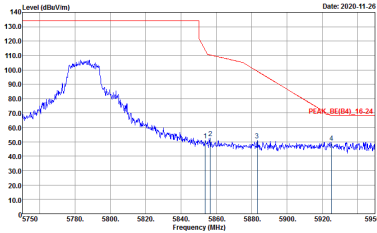


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-01 Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 30	 Site : 03CH07-01 Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 30

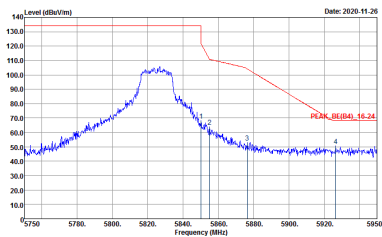
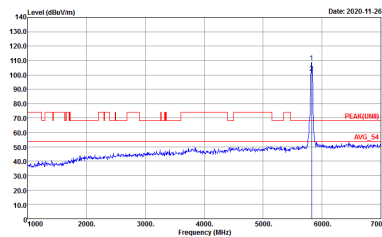


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 31	 Site : 03CH07-HY Condition : PEAK(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 31
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 31	Left blank

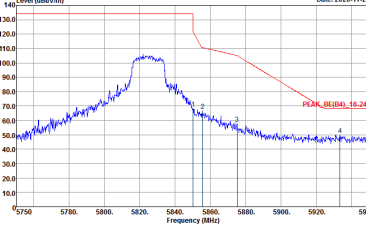
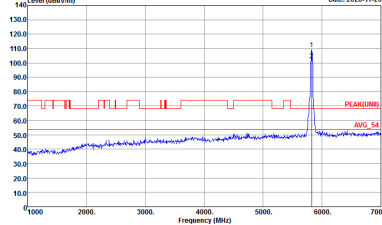


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 31	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 31
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 31	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-01 Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 32	 Site : 03CH07-01 Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 32



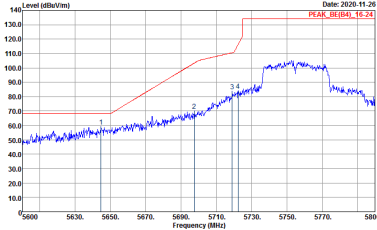
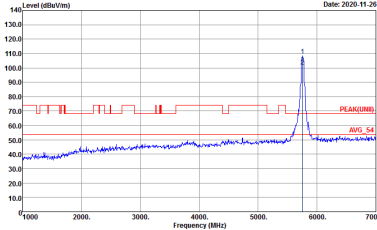
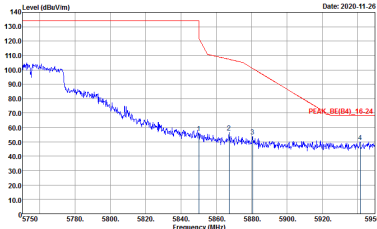
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-01 Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 32	 Site : 03CH07-01 Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 32



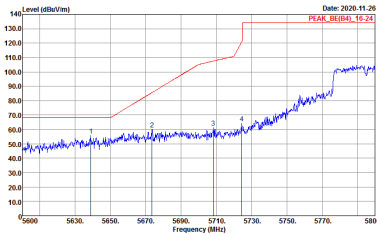
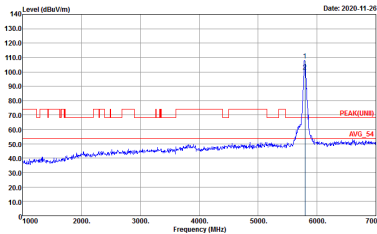
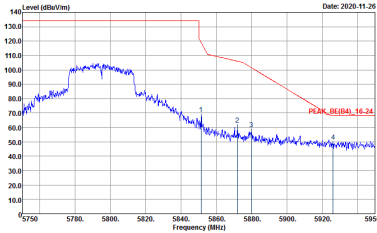
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

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 Detector : Peak Project : 862115-01 Mode : 33	Site : 03CH07-HY Condition : PEAK(LNB) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 33
	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 33	Left blank

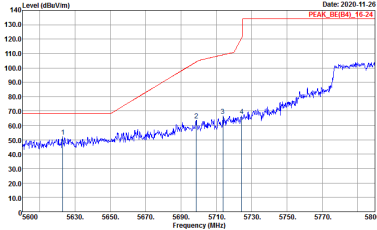
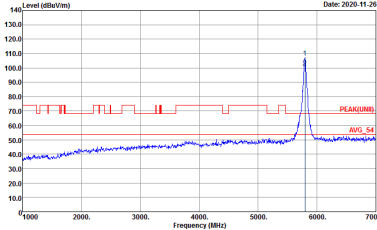
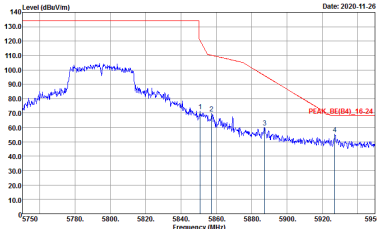


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 33	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 33
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 33	Left blank



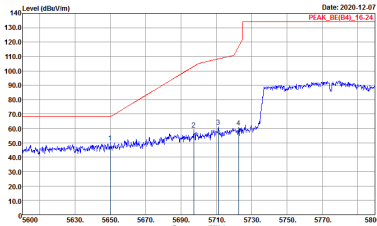
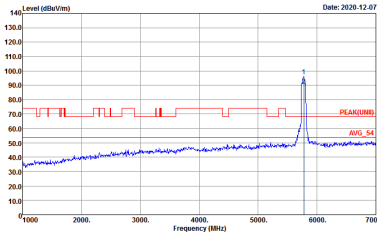
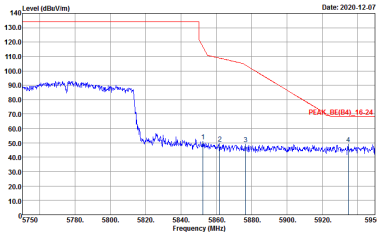
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 34	 Site : 03CH07-HY Condition : PEAK(BE)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 34
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 34	Left blank



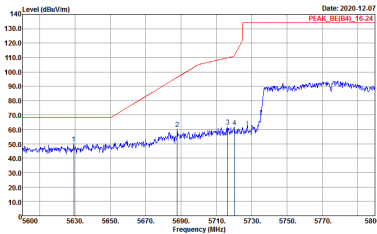
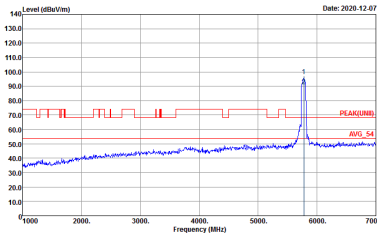
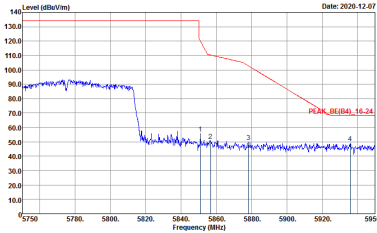
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 34	 Site : 03CH07-HY Condition : PEAK(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 34
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : REW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 862115-01 34	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_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 43	 Site : 03CH07-HY Condition : PEAK(LNB) 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 43
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 43	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_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 43	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 43
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 43	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 Avg.	Site : 03CH07-HY Condition : PEAK(UMR) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 27	Site : 03CH07-HY Condition : PEAK(UMR) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 27



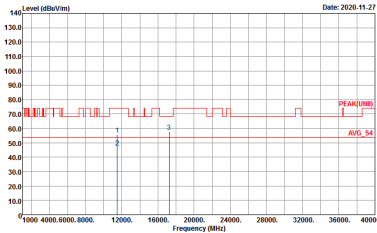
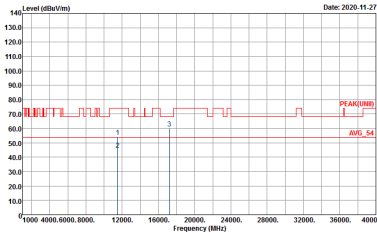
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-27 Frequency (MHz) Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 28	Level (dBuV/m) Date: 2020-11-27 Frequency (MHz) Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 28



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-27 Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 29	Level (dBuV/m) Date: 2020-11-27 Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 29



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 Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 30	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 30

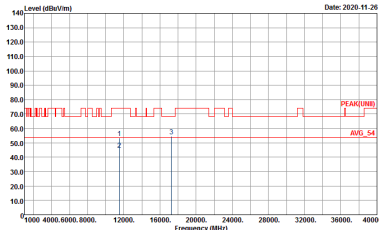
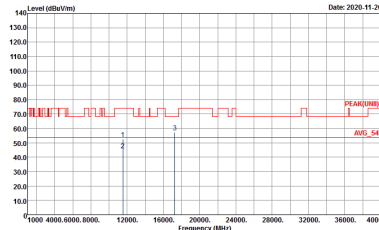


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-27 Frequency (MHz) Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 31	Level (dBuV/m) Date: 2020-11-27 Frequency (MHz) Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 31

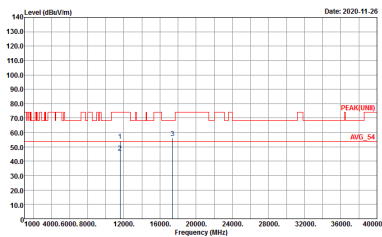
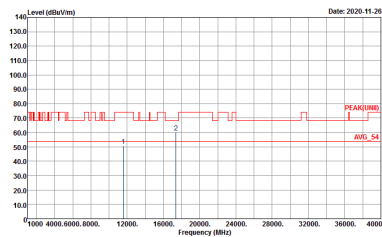


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-27 Frequency (MHz) Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 32	Level (dBuV/m) Date: 2020-11-27 Frequency (MHz) Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 32

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

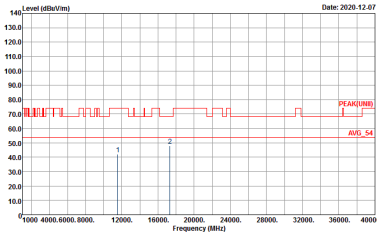
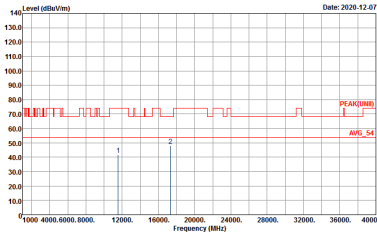
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 33	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 33



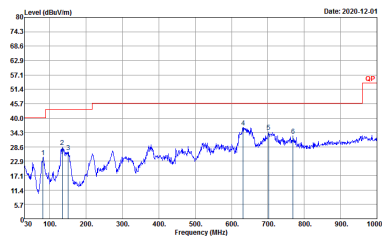
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 34	 Site : 03CH07-RH Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 862115-01 Mode : 34



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 Avg.	 Site : 03CH07-HY Condition : PEAK (UNII) 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 43	 Site : 03CH07-HY Condition : PEAK (UNII) 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 43

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

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-15419(6) HORIZONTAL Detector : Peak Project : 862115-01 Mode : 15	 Site : 03CH07-HY Condition : QP 3m LF-ANT-15419(6) VERTICAL Detector : Peak Project : 862115-01 Mode : 15



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	92.86	1430	0.70	1kHz	0.32
5GHz 802.11n HT20	92.41	1340	0.75	1kHz	0.34
5GHz 802.11n HT40	89.30	960	1.04	3kHz	0.49
5GHz 802.11ac VHT80	94.32	332	3.01	10kHz	0.25

