



FCC RADIO TEST REPORT

FCC ID : 2AEUPBHASC081
Equipment : Stick Up Cam Pro
Brand Name : ring
Model Name : 5E72E9
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Apr. 28, 2022 and testing was performed from Jun. 07, 2022 to Aug. 26, 2022. We, Sporton International Inc. Wensan 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR242615D	01	Initial issue of report	Sep. 19, 2022
FR242615D	02	1. Revise Product Feature 2. This report is an updated version, replacing the report issued on Sep. 19, 2022.	Mar. 27, 2023

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	3.89 dB under the limit at 11490.000 MHz
3.5	15.207	AC Conducted Emission	Pass	16.45 dB under the limit at 0.538 MHz
3.6	15.203	Antenna Requirement	Pass	-

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Michelle Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, LoRa, and 24G Radar.

Product Feature		
Antenna Type	WLAN: PIFA Antenna Bluetooth-LE: PIFA Antenna LoRa: PIFA Antenna 24GHz Radar: Patch Antenna	
SW Version	1.12.21	
HW Version	B6	
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	3.60

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, CO07-HY, 03CH15-HY

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

FCC designation No.: TW3786



1.4 Applicable Standards

According to the specifications declared by 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 the test items were validated and recorded in accordance with the standards without any modification during the testing.
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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported 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
	-	-	-	-
	153	5765	161	5805
	-	-	165	5825

2.2 Test Mode

The final test modes include the worst data rates for each modulation shown in the table below.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0

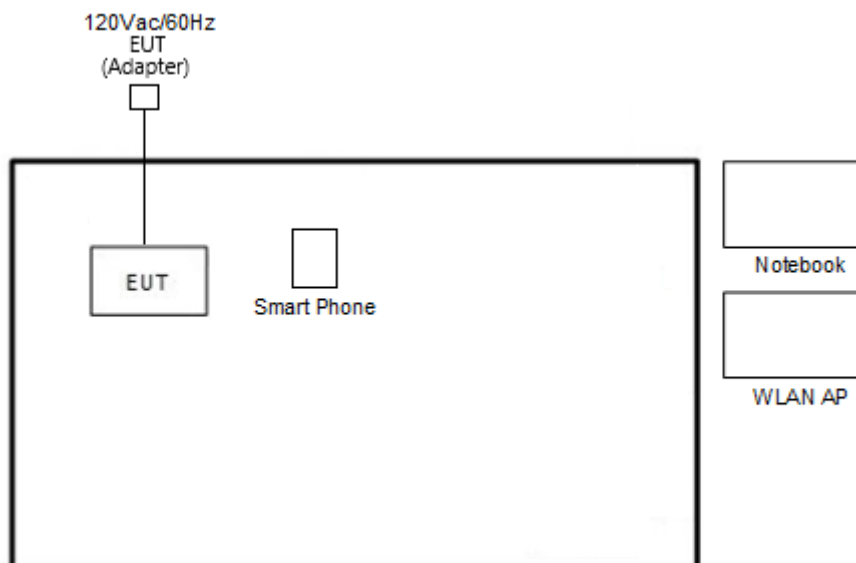
Test Cases	
AC Conducted Emission	Mode 1 : IR LED On + PIR Sensor On + Lora Tx + WLAN (5GHz) Link + Camera On + Mounting Plate (Base) + Charging Battery 1 + Adapter + Bluetooth-LE Link + Speaker + 24G Radar On
Remark: For Radiated Test Cases, the tests were performed with Battery 1.	

Ch. #		Band IV : 5725-5850 MHz	
		802.11a	802.11n HT20
L	Low	149	149
M	Middle	157	157
H	High	165	165

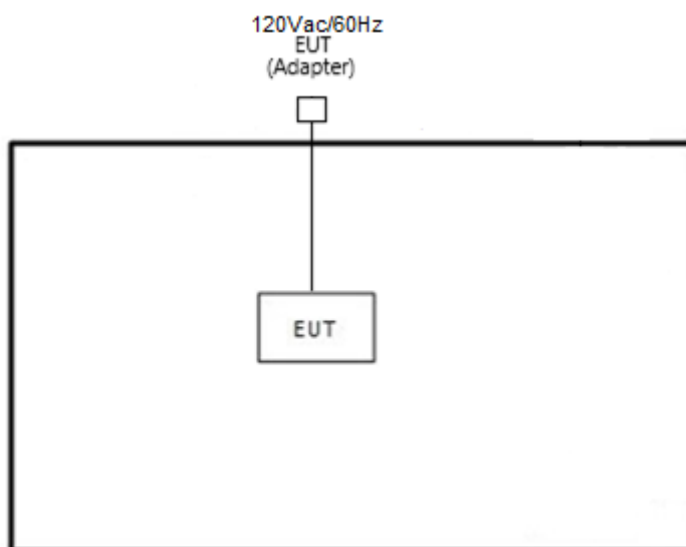
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC52	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	Dell	P79G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Smart Phone	HTC	M9pw	N/A	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “compliance 1.0.1.5” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

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.

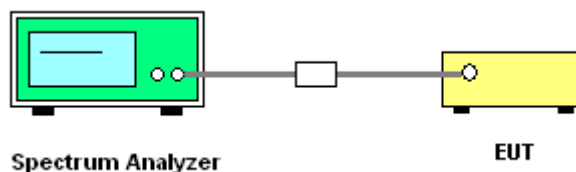
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in 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 5.725-5.85 GHz
2. Set RBW = 100 kHz.
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

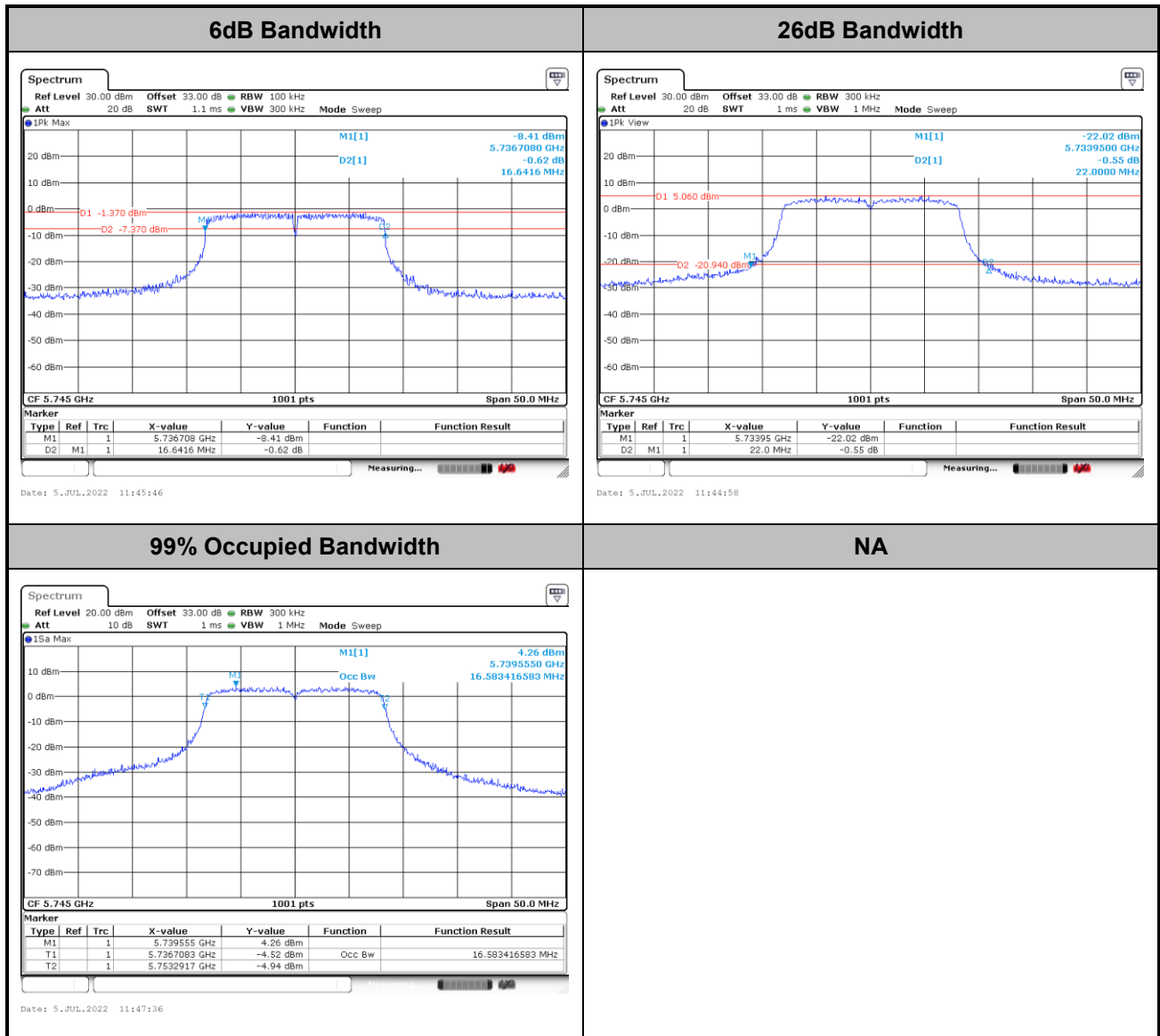


3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



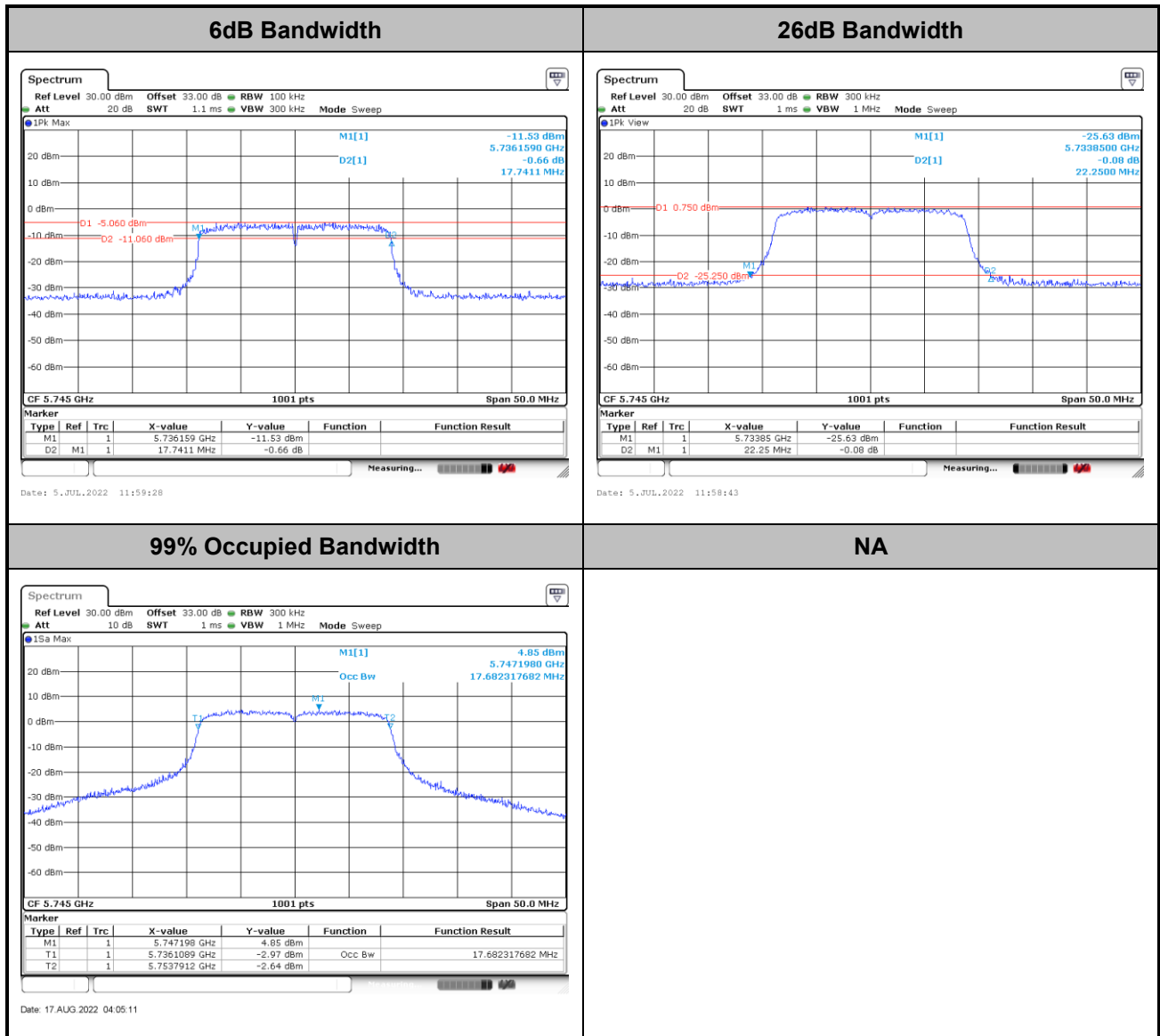
<802.11a>



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



<802.11n HT20>



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

Please refer to the measuring equipment list in this test report.

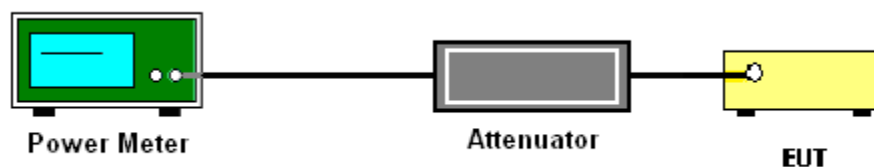
3.2.3 Test Procedures

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

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

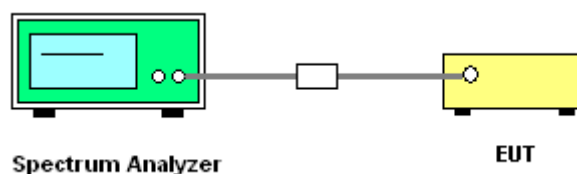
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-3

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Add $10 \log (500 \text{ kHz/RBW})$ to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - 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 is 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.

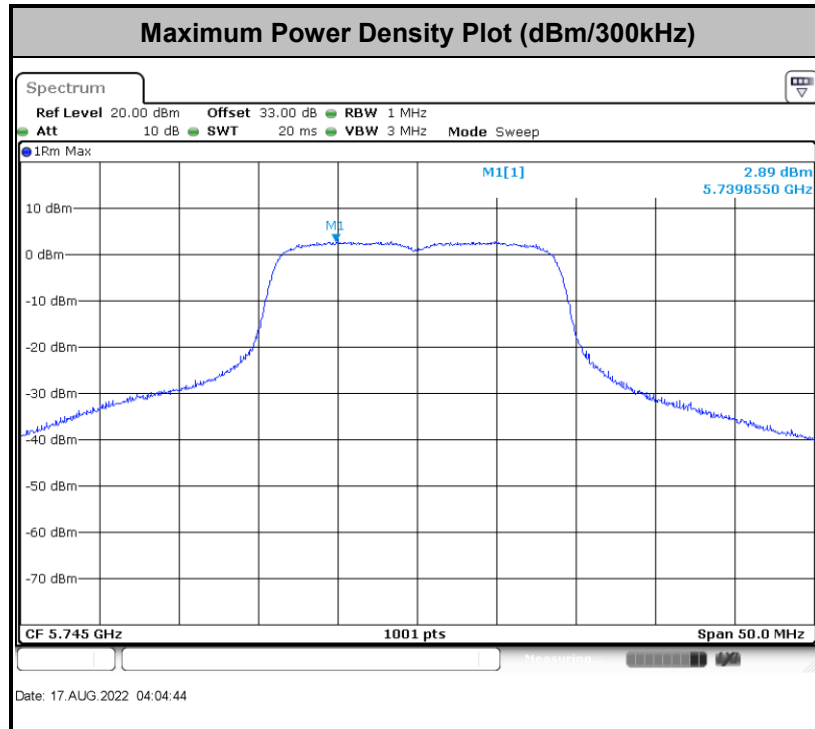
3.3.4 Test Setup





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 falls 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

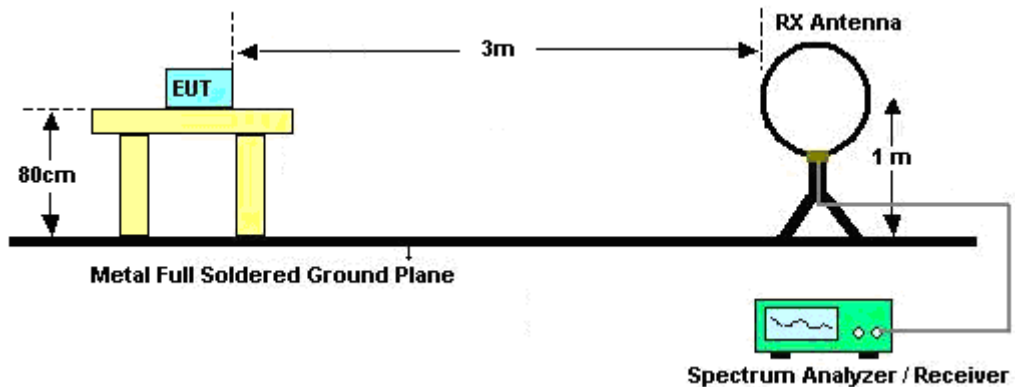
Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

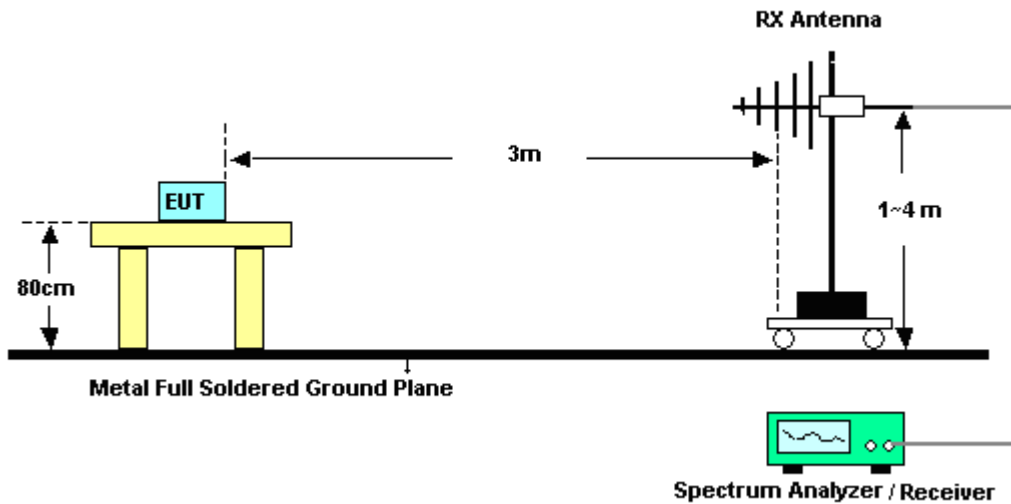
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 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 is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is 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 is 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. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies.
When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.

3.4.4 Test Setup

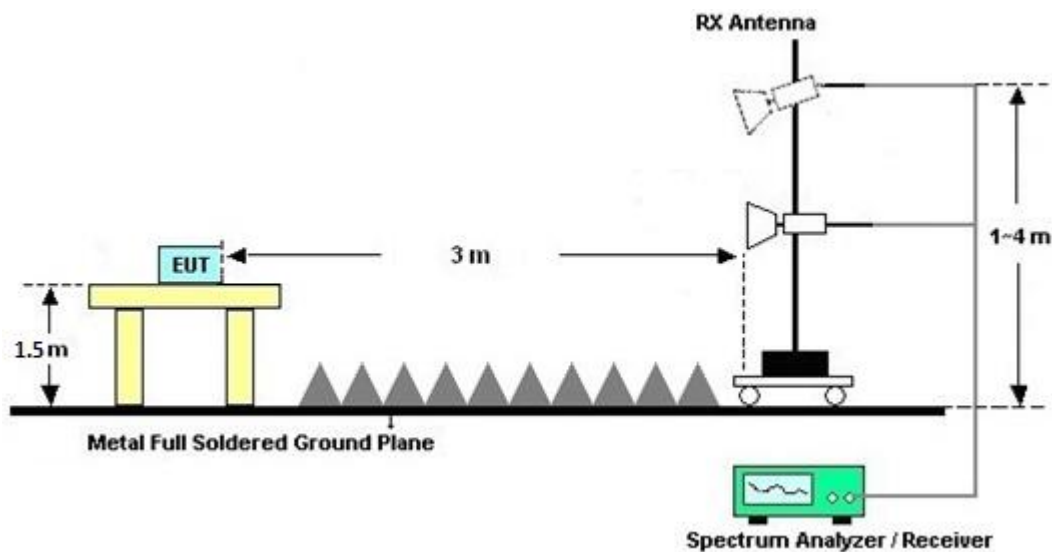
For radiated emissions test below 30MHz



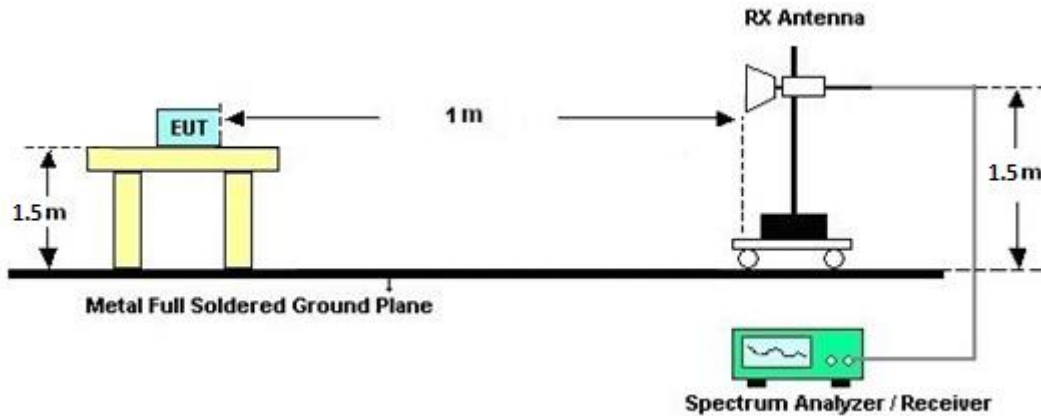
For radiated emissions test from 30MHz to 1GHz



For radiated emissions test from 1GHz to 18GHz



For radiated emissions test above 18GHz



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

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

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

3.4.6 Test Result of Radiated 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.

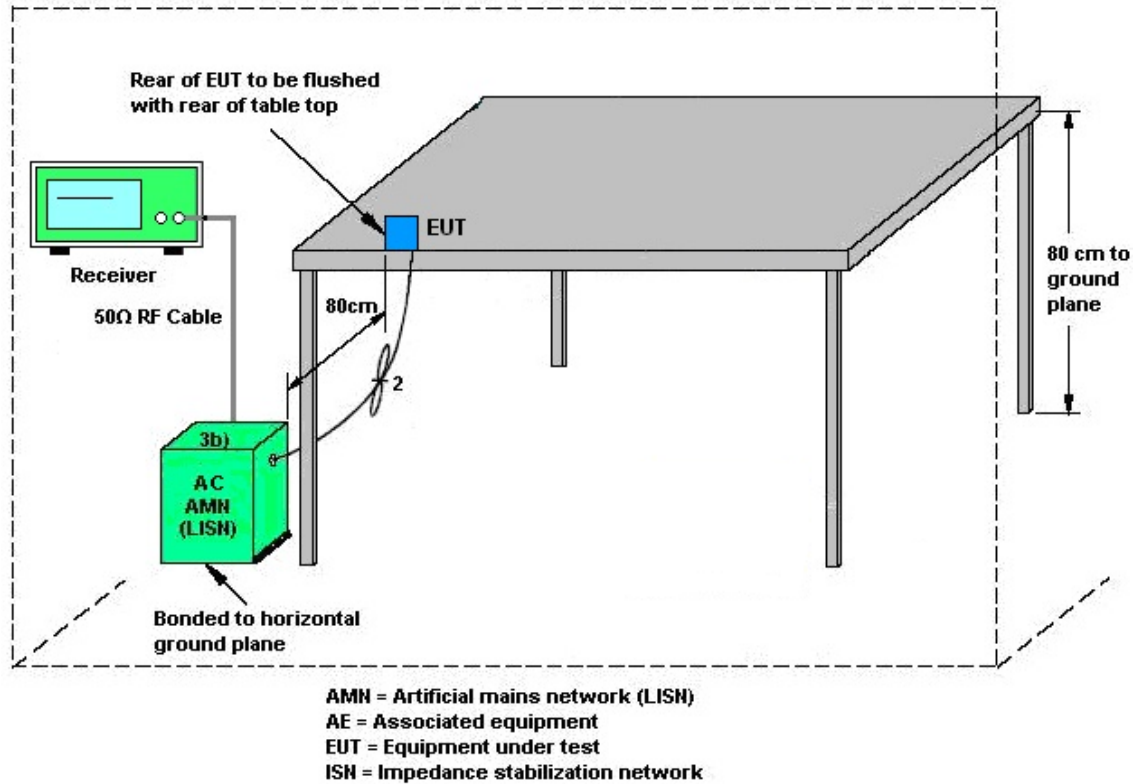
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
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 Antenna Requirements

3.6.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jul. 06, 2022	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 06, 2022	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 29, 2021	Jul. 06, 2022	Oct. 28, 2022	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 16, 2022	Jul. 06, 2022	Mar. 15, 2023	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 16, 2022	Jul. 06, 2022	Feb. 15, 2023	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Fed. 24, 2022	Jul. 06, 2022	Feb. 23, 2023	Conduction (CO07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	May 13, 2022	Jun. 20, 2022~ Aug. 26, 2022	May 12, 2023	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Jun. 20, 2022~ Aug. 26, 2022	Feb. 05, 2023	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2021	Jun. 20, 2022~ Aug. 26, 2022	Dec. 26, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 04, 2021	Jun. 20, 2022~ Aug. 02, 2022	Aug. 03, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2022	Aug. 03, 2022~ Aug. 26, 2022	Jun. 22, 2023	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Jun. 20, 2022~ Aug. 26, 2022	Nov. 29, 2022	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055006	1GHz~18GHz	May 05, 2022	Jun. 20, 2022~ Aug. 26, 2022	May 04, 2023	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz~18GHz	Dec. 16, 2021	Jun. 20, 2022~ Aug. 26, 2022	Dec. 15, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	Jun. 22, 2021	Jun. 20, 2022	Jun. 21, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18-40GHz	Dec. 22, 2021	Jun. 21, 2022~ Aug. 26, 2022	Dec. 21, 2022	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 21, 2021	Jun. 20, 2022~ Aug. 26, 2022	Oct. 20, 2022	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 07, 2022	Jun. 20, 2022~ Aug. 26, 2022	Mar. 06, 2023	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 20, 2022~ Aug. 26, 2022	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 20, 2022~ Aug. 26, 2022	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	Jun. 20, 2022~ Aug. 26, 2022	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY9838/4PE,508405/2E,582185/4	30MHz~18G	May 12, 2021	Jun. 20, 2022~ Aug. 26, 2022	May 11, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	30MHz~40GHz	Jan. 04, 2022	Jun. 20, 2022~ Aug. 26, 2022	Jan. 03, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Jun. 20, 2022~ Aug. 26, 2022	Mar. 09, 2023	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Jun. 07, 2022~ Aug. 17, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Jun. 07, 2022~ Aug. 17, 2022	Dec. 15, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Jun. 07, 2022~ Aug. 17, 2022	Aug. 29, 2022	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.8 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.6 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2022/06/07~2022/08/17	Relative Humidity:	51~54	%

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	16.58	-	22.00	-	16.64	-	0.5	Pass
11a	6Mbps	1	157	5785	16.68	-	22.60	-	15.79	-	0.5	Pass
11a	6Mbps	1	165	5825	16.58	-	22.20	-	16.59	-	0.5	Pass
HT20	MCS0	1	149	5745	17.68	-	22.25	-	17.74	-	0.5	Pass
HT20	MCS0	1	157	5785	17.68	-	23.50	-	17.79	-	0.5	Pass
HT20	MCS0	1	165	5825	17.68	-	22.20	-	17.73	-	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	13.50	-		30.00	-	3.60	-	Pass
11a	6Mbps	1	157	5785	13.30	-		30.00	-	3.60	-	Pass
11a	6Mbps	1	165	5825	13.30	-		30.00	-	3.60	-	Pass
HT20	MCS0	1	149	5745	13.40	-		30.00	-	3.60	-	Pass
HT20	MCS0	1	157	5785	13.30	-		30.00	-	3.60	-	Pass
HT20	MCS0	1	165	5825	13.10	-		30.00	-	3.60	-	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	-	4.88	-		30.00	-	3.60	-	Pass
11a	6Mbps	1	157	5785	2.22	-	4.80	-		30.00	-	3.60	-	Pass
11a	6Mbps	1	165	5825	2.22	-	4.85	-		30.00	-	3.60	-	Pass
HT20	MCS0	1	149	5745	2.22	-	5.11	-		30.00	-	3.60	-	Pass
HT20	MCS0	1	157	5785	2.22	-	4.78	-		30.00	-	3.60	-	Pass
HT20	MCS0	1	165	5825	2.22	-	4.70	-		30.00	-	3.60	-	Pass



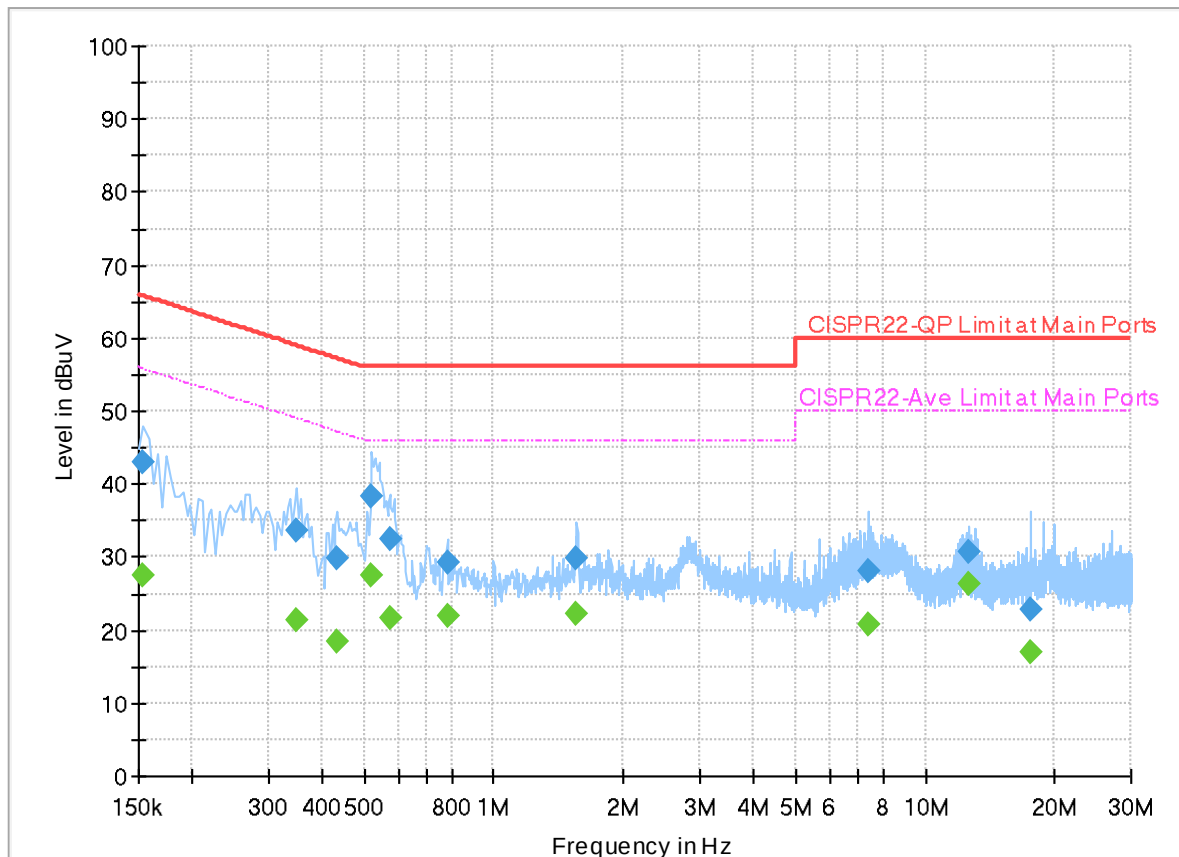
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.4~25.6℃
		Relative Humidity :	48.2~57.1%

EUT Information

Report NO : 242615
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

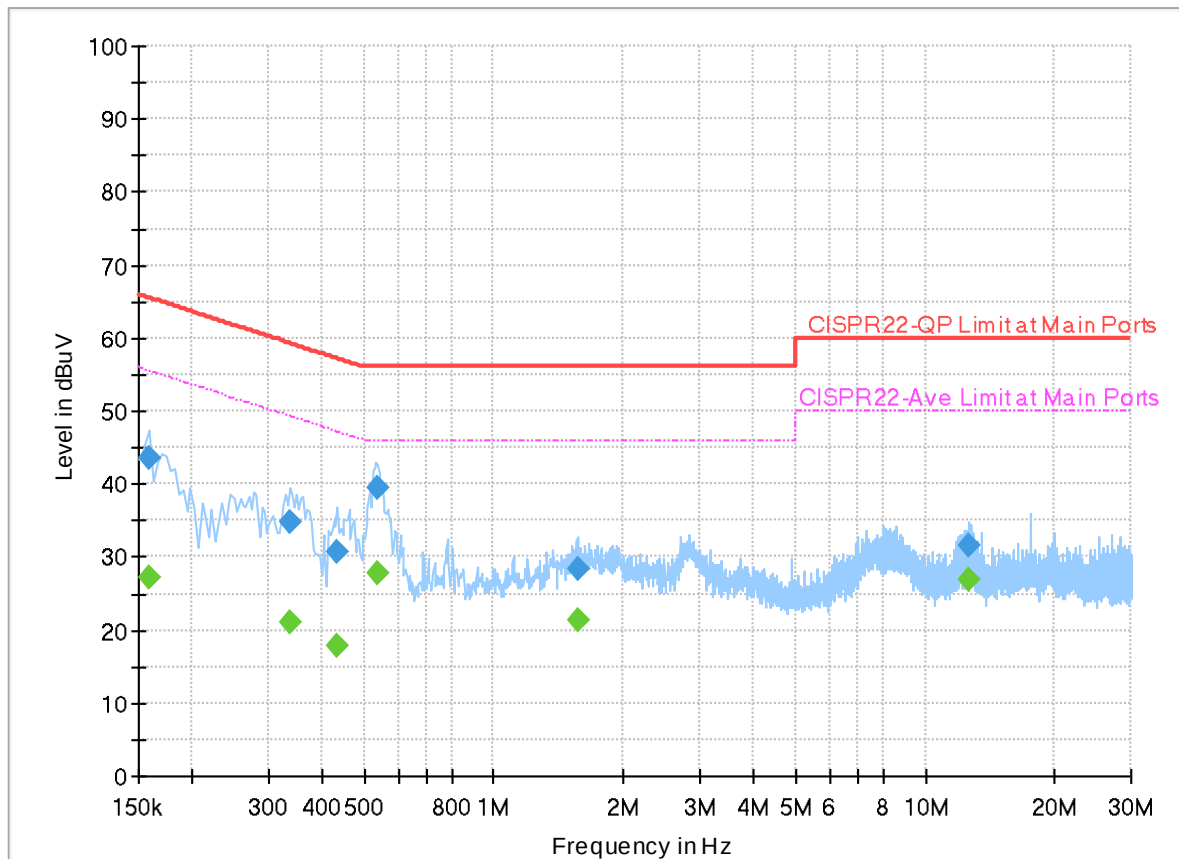
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000	---	27.52	55.78	28.26	L1	OFF	20.0
0.154000	42.90	---	65.78	22.88	L1	OFF	20.0
0.350000	---	21.21	48.96	27.75	L1	OFF	20.0
0.350000	33.64	---	58.96	25.32	L1	OFF	20.0
0.434000	---	18.49	47.18	28.69	L1	OFF	20.0
0.434000	29.74	---	57.18	27.44	L1	OFF	20.0
0.522000	---	27.42	46.00	18.58	L1	OFF	20.0
0.522000	38.27	---	56.00	17.73	L1	OFF	20.0
0.574000	---	21.68	46.00	24.32	L1	OFF	20.0
0.574000	32.59	---	56.00	23.41	L1	OFF	20.0
0.782000	---	21.90	46.00	24.10	L1	OFF	20.0
0.782000	29.33	---	56.00	26.67	L1	OFF	20.0
1.558000	---	22.31	46.00	23.69	L1	OFF	20.0
1.558000	29.96	---	56.00	26.04	L1	OFF	20.0
7.410000	---	20.90	50.00	29.10	L1	OFF	20.1
7.410000	28.01	---	60.00	31.99	L1	OFF	20.1
12.606000	---	26.27	50.00	23.73	L1	OFF	20.2
12.606000	30.61	---	60.00	29.39	L1	OFF	20.2
17.646000	---	17.04	50.00	32.96	L1	OFF	20.2

17.646000	22.75	---	60.00	37.25	L1	OFF	20.2
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EUT Information

Report NO : 242615
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)
0.158000	---	27.24	55.57	28.33	N	OFF	20.0
0.158000	43.59	---	65.57	21.98	N	OFF	20.0
0.338000	---	20.96	49.25	28.29	N	OFF	20.0
0.338000	34.82	---	59.25	24.43	N	OFF	20.0
0.434000	---	17.71	47.18	29.47	N	OFF	20.0
0.434000	30.58	---	57.18	26.60	N	OFF	20.0
0.538000	---	27.64	46.00	18.36	N	OFF	20.0
0.538000	39.55	---	56.00	16.45	N	OFF	20.0
1.562000	---	21.26	46.00	24.74	N	OFF	20.0
1.562000	28.25	---	56.00	27.75	N	OFF	20.0
12.606000	---	26.83	50.00	23.17	N	OFF	20.2
12.606000	31.46	---	60.00	28.54	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5613.4	49.02	-19.18	68.2	42.42	33	10.39	36.79	245	349	P	H
		5699.4	52.47	-52.29	104.76	45.73	33.1	10.49	36.85	245	349	P	H
		5717.8	59.74	-50.44	110.18	52.89	33.21	10.51	36.87	245	349	P	H
		5724	70.89	-49.03	119.92	64	33.24	10.52	36.87	245	349	P	H
	*	5745	111.18	-	-	104.16	33.37	10.54	36.89	245	349	P	H
	*	5745	102.89	-	-	95.87	33.37	10.54	36.89	245	349	A	H
		5600	48.27	-19.93	68.2	41.67	33	10.38	36.78	400	275	P	V
		5699.8	48.41	-56.64	105.05	41.67	33.1	10.49	36.85	400	275	P	V
		5720	52.64	-58.16	110.8	45.78	33.22	10.51	36.87	400	275	P	V
		5725	63.88	-58.32	122.2	56.98	33.25	10.52	36.87	400	275	P	V
	*	5745	107.24	-	-	100.22	33.37	10.54	36.89	400	275	P	V
	*	5745	97.78	-	-	90.76	33.37	10.54	36.89	400	275	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5628.2	49.17	-19.03	68.2	43.3	33.06	9.53	36.72	265	303	P	H
		5699.8	49.19	-55.86	105.05	42.65	33.7	9.56	36.72	265	303	P	H
		5700.2	50.5	-54.76	105.26	43.95	33.7	9.57	36.72	265	303	P	H
		5721.8	48.1	-66.8	114.9	41.42	33.83	9.57	36.72	265	303	P	H
	*	5785	108.97	-	-	101.94	34.14	9.6	36.71	265	303	P	H
	*	5785	101.17	-	-	94.14	34.14	9.6	36.71	265	303	A	H
		5854.47	47.56	-64.45	112.01	40.38	34.21	9.68	36.71	265	303	P	H
		5872.51	50.24	-55.66	105.9	42.99	34.25	9.71	36.71	265	303	P	H
		5915.765	48.71	-26.3	75.01	41.41	34.24	9.77	36.71	265	303	P	H
		5947.335	49.69	-18.51	68.2	42.48	34.11	9.81	36.71	265	303	P	H
		5620.2	48.47	-19.73	68.2	42.62	33.04	9.53	36.72	393	282	P	V
		5659.4	48.69	-26.49	75.18	42.65	33.21	9.55	36.72	393	282	P	V
		5702.8	49.36	-56.63	105.99	42.79	33.72	9.57	36.72	393	282	P	V
		5722.2	47.27	-68.55	115.82	40.59	33.83	9.57	36.72	393	282	P	V
	*	5785	107.35	-	-	100.32	34.14	9.6	36.71	393	282	P	V
	*	5785	99.13	-	-	92.1	34.14	9.6	36.71	393	282	A	V
		5854.675	48.5	-63.04	111.54	41.32	34.21	9.68	36.71	393	282	P	V
		5861.235	48.82	-60.23	109.05	41.62	34.22	9.69	36.71	393	282	P	V
		5889.935	49.41	-44.71	94.12	42.11	34.28	9.73	36.71	393	282	P	V
		5944.055	49.51	-18.69	68.2	42.3	34.12	9.8	36.71	393	282	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	109.63	-	-	103.13	33.8	9.64	36.94	300	357	P	H
	*	5825	101.41	-	-	94.91	33.8	9.64	36.94	300	357	A	H
		5852.8	54.9	-60.92	115.82	48.27	33.91	9.68	36.96	300	357	P	H
		5860	53.47	-55.93	109.4	46.83	33.92	9.69	36.97	300	357	P	H
		5907	50.81	-30.67	81.48	44.06	34	9.75	37	300	357	P	H
		5946	48.02	-20.18	68.2	41.24	34	9.81	37.03	300	357	P	H
	*	5825	104.15	-	-	97.65	33.8	9.64	36.94	400	278	P	V
	*	5825	96.41	-	-	89.91	33.8	9.64	36.94	400	278	A	V
		5851.8	52.03	-66.07	118.1	45.41	33.9	9.68	36.96	400	278	P	V
		5855	49.99	-60.81	110.8	43.37	33.91	9.68	36.97	400	278	P	V
		5907.4	49.13	-32.06	81.19	42.38	34	9.75	37	400	278	P	V
		5937	48.25	-19.95	68.2	41.48	34	9.79	37.02	400	278	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)	Margin (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	56.26	-17.74	74	64.51	39	13.51	60.76	215	133	P	H
		11490	46.06	-7.94	54	54.31	39	13.51	60.76	215	133	A	H
		12577	48.69	-25.31	74	56.91	39.33	14.13	61.68	-	-	P	H
		12577	39.9	-14.1	54	48.12	39.33	14.13	61.68	-	-	A	H
		14491	48.07	-25.93	74	56.38	40	15.17	63.48	-	-	P	H
		14491	39.28	-14.72	54	47.59	40	15.17	63.48	-	-	A	H
		17235	50.12	-18.08	68.2	53.87	38	16.54	58.29	-	-	P	H
		17945	51.2	-22.8	74	50.26	41.18	17	57.24	-	-	P	H
		17945	42.41	-11.59	54	41.47	41.18	17	57.24	-	-	A	H
		11490	61.16	-12.84	74	69.41	39	13.51	60.76	203	35	P	V
		11490	50.11	-3.89	54	58.36	39	13.51	60.76	203	35	A	V
		12577	48.7	-25.3	74	56.92	39.33	14.13	61.68	-	-	P	V
		12577	39.91	-14.09	54	48.13	39.33	14.13	61.68	-	-	A	V
		14491	46.95	-27.05	74	55.26	40	15.17	63.48	-	-	P	V
		14491	38.16	-15.84	54	46.47	40	15.17	63.48	-	-	A	V
		17235	50.93	-17.27	68.2	54.68	38	16.54	58.29	-	-	P	V
		17912	51.47	-22.53	74	50.74	41.05	16.97	57.29	-	-	P	V
		17912	42.68	-11.32	54	41.95	41.05	16.97	57.29	-	-	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	51.38	-22.62	74	59.87	38.79	13.55	60.83	205	137	P	H
		11570	43	-11	54	51.49	38.79	13.55	60.83	205	137	A	H
		12126	49.17	-24.83	74	57.51	39.23	13.86	61.43	-	-	P	H
		12126	38.79	-15.21	54	47.13	39.23	13.86	61.43	-	-	A	H
		14491	48.45	-25.55	74	56.76	40	15.17	63.48	-	-	P	H
		14491	39.5	-14.5	54	47.81	40	15.17	63.48	-	-	A	H
		17355	50.33	-17.87	68.2	53.63	38.17	16.61	58.08	-	-	P	H
		17978	53.36	-20.64	74	52.23	41.31	17.02	57.2	-	-	P	H
		17978	42.31	-11.69	54	41.18	41.31	17.02	57.2	-	-	A	H
		11570	55.4	-18.6	74	63.89	38.79	13.55	60.83	205	37	P	V
		11570	47.2	-6.8	54	55.69	38.79	13.55	60.83	205	37	A	V
		12126	49.3	-24.7	74	57.64	39.23	13.86	61.43	-	-	P	V
		12126	38.92	-15.08	54	47.26	39.23	13.86	61.43	-	-	A	V
		14491	48.79	-25.21	74	57.1	40	15.17	63.48	-	-	P	V
		14491	39.21	-14.79	54	47.52	40	15.17	63.48	-	-	A	V
		17355	51.96	-16.24	68.2	55.26	38.17	16.61	58.08	-	-	P	V
		17989	53.05	-20.95	74	51.85	41.36	17.02	57.18	-	-	P	V
		17989	42.49	-11.51	54	41.29	41.36	17.02	57.18	-	-	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		10784	48.98	-25.02	74	57.75	39.02	13.12	60.91	-	-	P	H
		10784	40.19	-13.81	54	48.96	39.02	13.12	60.91	-	-	A	H
		11650	52.53	-21.47	74	61.16	38.7	13.6	60.93	200	120	P	H
		11650	42.21	-11.79	54	50.84	38.7	13.6	60.93	200	120	A	H
		14491	48.91	-25.09	74	57.22	40	15.17	63.48	-	-	P	H
		14491	40.12	-13.88	54	48.43	40	15.17	63.48	-	-	A	H
		17475	50.55	-17.65	68.2	53.29	38.45	16.69	57.88	-	-	P	H
		17978	53.66	-20.34	74	52.53	41.31	17.02	57.2	-	-	P	H
		17978	44.87	-9.13	54	43.74	41.31	17.02	57.2	-	-	A	H
		10751	49.23	-24.77	74	57.97	39.05	13.1	60.89	-	-	P	V
		10751	40.44	-13.56	54	49.18	39.05	13.1	60.89	-	-	A	V
		11650	53.3	-20.7	74	61.93	38.7	13.6	60.93	358	71	P	V
		11650	44.16	-9.84	54	52.79	38.7	13.6	60.93	358	71	A	V
		14480	49.01	-24.99	74	57.31	40	15.17	63.47	-	-	P	V
		14480	40.22	-13.78	54	48.52	40	15.17	63.47	-	-	A	V
		17475	50.68	-17.52	68.2	53.42	38.45	16.69	57.88	-	-	P	V
		17912	53.55	-20.45	74	52.82	41.05	16.97	57.29	-	-	P	V
		17912	44.76	-9.24	54	44.03	41.05	16.97	57.29	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5625.6	49.03	-19.17	68.2	42.29	33.05	10.41	36.72	258	302	P	H
		5697.4	52.23	-51.05	103.28	44.79	33.67	10.49	36.72	258	302	P	H
		5720	59.92	-50.88	110.8	52.31	33.82	10.51	36.72	258	302	P	H
		5724.8	71.62	-50.12	121.74	63.97	33.85	10.52	36.72	258	302	P	H
	*	5745	110.78	-	-	102.99	33.97	10.54	36.72	258	302	P	H
	*	5745	102.78	-	-	94.99	33.97	10.54	36.72	258	302	A	H
		5609	48.72	-19.48	68.2	42.03	33.02	10.39	36.72	382	282	P	V
		5693.6	50.97	-49.51	100.48	43.59	33.62	10.48	36.72	382	282	P	V
		5719.6	58.45	-52.24	110.69	50.84	33.82	10.51	36.72	382	282	P	V
		5724.2	70.57	-49.81	120.38	62.92	33.85	10.52	36.72	382	282	P	V
	*	5745	109.86	-	-	102.07	33.97	10.54	36.72	382	282	P	V
	*	5745	101.3	-	-	93.51	33.97	10.54	36.72	382	282	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5628	51.78	-16.42	68.2	45.17	33	10.41	36.8	260	354	P	H
		5698.8	51.44	-52.88	104.32	44.7	33.1	10.49	36.85	260	354	P	H
		5700.8	52.51	-52.91	105.42	45.77	33.1	10.49	36.85	260	354	P	H
		5720.2	49.9	-61.36	111.26	43.04	33.22	10.51	36.87	260	354	P	H
	*	5785	113.51	-	-	106.24	33.61	10.58	36.92	260	354	P	H
	*	5785	105.6	-	-	98.33	33.61	10.58	36.92	260	354	A	H
		5854.88	49.89	-61.18	111.07	42.31	33.91	10.64	36.97	260	354	P	H
		5861.235	52.51	-56.54	109.05	44.92	33.92	10.64	36.97	260	354	P	H
		5899.98	50.25	-36.43	86.68	42.58	34	10.67	37	260	354	P	H
		5948.565	50.32	-17.88	68.2	42.65	34	10.7	37.03	260	354	P	H
		5641.8	48.61	-19.59	68.2	42.88	33	9.54	36.81	392	276	P	V
		5656.6	47.9	-25.2	73.1	42.16	33.01	9.55	36.82	392	276	P	V
		5711.8	48.14	-60.37	108.51	42.26	33.17	9.57	36.86	392	276	P	V
		5723.8	46.3	-73.16	119.46	40.35	33.24	9.58	36.87	392	276	P	V
	*	5785	105.81	-	-	99.52	33.61	9.6	36.92	392	276	P	V
	*	5785	104.08	-	-	97.79	33.61	9.6	36.92	392	276	A	V
		5854.675	47.59	-63.95	111.54	40.97	33.91	9.68	36.97	392	276	P	V
		5866.975	49.04	-58.4	107.44	42.38	33.93	9.7	36.97	392	276	P	V
		5902.235	48.52	-36.49	85.01	41.77	34	9.75	37	392	276	P	V
		5934.625	47.79	-20.41	68.2	41.02	34	9.79	37.02	392	276	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	111.75	-	-	105.25	33.8	9.64	36.94	263	353	P	H
	*	5825	103.18	-	-	96.68	33.8	9.64	36.94	263	353	A	H
		5850.4	56.78	-64.51	121.29	50.16	33.9	9.68	36.96	263	353	P	H
		5857.4	54.5	-55.63	110.13	47.87	33.91	9.69	36.97	263	353	P	H
		5898.6	51.15	-36.55	87.7	44.41	34	9.74	37	263	353	P	H
		5933.4	48.76	-19.44	68.2	41.99	34	9.79	37.02	263	353	P	H
	*	5825	104.85	-	-	98.35	33.8	9.64	36.94	387	276	P	V
	*	5825	96.99	-	-	90.49	33.8	9.64	36.94	387	276	A	V
		5850	51.33	-70.87	122.2	44.71	33.9	9.68	36.96	387	276	P	V
		5857.4	49.44	-60.69	110.13	42.81	33.91	9.69	36.97	387	276	P	V
		5907.8	48.77	-32.12	80.89	42.01	34	9.76	37	387	276	P	V
		5940.4	47.63	-20.57	68.2	40.86	34	9.8	37.03	387	276	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)	Margin (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	54.54	-19.46	74	62.79	39	13.51	60.76	207	136	P	H
		11490	45.86	-8.14	54	54.11	39	13.51	60.76	207	136	A	H
		12181	49	-25	74	57.29	39.28	13.89	61.46	-	-	P	H
		12181	38.5	-15.5	54	46.79	39.28	13.89	61.46	-	-	A	H
		14491	47.5	-26.5	74	55.81	40	15.17	63.48	-	-	P	H
		14491	37.83	-16.17	54	46.14	40	15.17	63.48	-	-	A	H
		17235	51.22	-16.98	68.2	54.97	38	16.54	58.29	-	-	P	H
		17901	51.57	-22.43	74	50.9	41	16.97	57.3	-	-	P	H
		17901	41.36	-12.64	54	40.69	41	16.97	57.3	-	-	A	H
		11490	57	-17	74	65.25	39	13.51	60.76	208	37	P	V
		11490	49.67	-4.33	54	57.92	39	13.51	60.76	208	37	A	V
		12335	49.6	-24.4	74	57.99	39.19	13.99	61.57	-	-	P	V
		12335	38.97	-15.03	54	47.36	39.19	13.99	61.57	-	-	A	V
		14491	48.01	-25.99	74	56.32	40	15.17	63.48	-	-	P	V
		14491	38.2	-15.8	54	46.51	40	15.17	63.48	-	-	A	V
		17235	51.12	-17.08	68.2	54.87	38	16.54	58.29	-	-	P	V
		17989	52.73	-21.27	74	51.53	41.36	17.02	57.18	-	-	P	V
		17989	42.11	-11.89	54	40.91	41.36	17.02	57.18	-	-	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11570	51.96	-22.04	74	60.45	38.79	13.55	60.83	201	118	P	H
		11570	41.32	-12.68	54	49.81	38.79	13.55	60.83	201	118	A	H
		12236	48.43	-25.57	74	56.69	39.3	13.94	61.5	-	-	P	H
		12236	39.64	-14.36	54	47.9	39.3	13.94	61.5	-	-	A	H
		14491	47.85	-26.15	74	56.16	40	15.17	63.48	-	-	P	H
		14491	39.06	-14.94	54	47.37	40	15.17	63.48	-	-	A	H
		17355	48.05	-20.15	68.2	51.35	38.17	16.61	58.08	-	-	P	H
		17978	51.24	-22.76	74	50.11	41.31	17.02	57.2	-	-	P	H
		17978	42.45	-11.55	54	41.32	41.31	17.02	57.2	-	-	A	H
		11570	57.61	-16.39	74	66.1	38.79	13.55	60.83	206	35	P	V
		11570	45.17	-8.83	54	53.66	38.79	13.55	60.83	206	35	A	V
		11961	49.15	-24.85	74	57.55	39.12	13.77	61.29	-	-	P	V
		11961	40.36	-13.64	54	48.76	39.12	13.77	61.29	-	-	A	V
		14491	47.03	-26.97	74	55.34	40	15.17	63.48	-	-	P	V
		14491	38.24	-15.76	54	46.55	40	15.17	63.48	-	-	A	V
		17355	50.5	-17.7	68.2	53.8	38.17	16.61	58.08	-	-	P	V
		18000	51.37	-22.63	74	50.11	41.4	17.03	57.17	-	-	P	V
		18000	42.58	-11.42	54	41.32	41.4	17.03	57.17	-	-	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11650	50.78	-23.22	74	59.41	38.7	13.6	60.93	191	123	P	H
		11650	39.79	-14.21	54	48.42	38.7	13.6	60.93	191	123	A	H
		12599	48.83	-25.17	74	56.96	39.4	14.14	61.67	-	-	P	H
		12599	40.04	-13.96	54	48.17	39.4	14.14	61.67	-	-	A	H
		14480	47.65	-26.35	74	55.95	40	15.17	63.47	-	-	P	H
		14480	38.86	-15.14	54	47.16	40	15.17	63.47	-	-	A	H
		17475	49.16	-19.04	68.2	51.9	38.45	16.69	57.88	-	-	P	H
		17989	51.68	-22.32	74	50.48	41.36	17.02	57.18	-	-	P	H
		17989	42.89	-11.11	54	41.69	41.36	17.02	57.18	-	-	A	H
		11650	53.88	-20.12	74	62.51	38.7	13.6	60.93	202	34	P	V
		11650	43.61	-10.39	54	52.24	38.7	13.6	60.93	202	34	A	V
		12698	48.42	-25.58	74	56.38	39.5	14.21	61.67	-	-	P	V
		12698	39.63	-14.37	54	47.59	39.5	14.21	61.67	-	-	A	V
		14491	47.43	-26.57	74	55.74	40	15.17	63.48	-	-	P	V
		14491	38.64	-15.36	54	46.95	40	15.17	63.48	-	-	A	V
		17475	48.9	-19.3	68.2	51.64	38.45	16.69	57.88	-	-	P	V
		17912	51.3	-22.7	74	50.57	41.05	16.97	57.29	-	-	P	V
		17912	42.51	-11.49	54	41.78	41.05	16.97	57.29	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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 SHF		23688	43.62	-30.38	74	61.01	38.8	-2.27	53.92	-	-	P	H
		35722.5	47.35	-26.65	74	64.5	42.53	-0.88	58.8	-	-	P	H
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

[illegible]



Note symbol

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

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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		11213	48.14	-25.86	74	59.06	39.72	17.65	68.29	-	-	P	H
CH 149		11213	37.67	-16.33	54	48.59	39.72	17.65	68.29	-	-	A	H
5745MHz													

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. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 11213MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 39.72(dB/m) + 17.65(dB) + 59.06(dBμV) – 68.29 (dB)
= 48.14 (dBμV/m)
2. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 48.14(dBμV/m) – 74(dBμV/m)
= -25.86(dB)

For Average Limit @ 11213MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 39.72(dB/m) + 17.65(dB) + 48.59(dBμV) – 68.29 (dB)
= 37.67 (dBμV/m)
2. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 37.67(dBμV/m) – 54(dBμV/m)
= -16.33(dB)

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

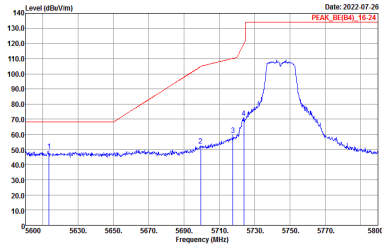
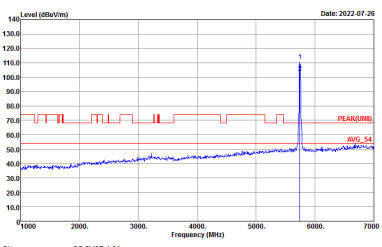


Appendix D. Radiated Spurious Emission Plots

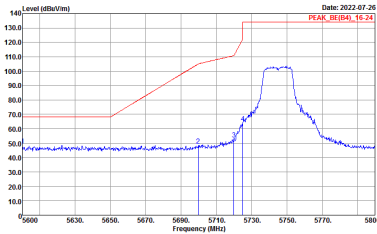
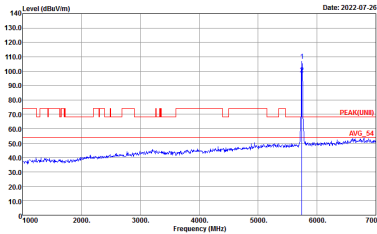
Test Engineer :	Leo Lee and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%



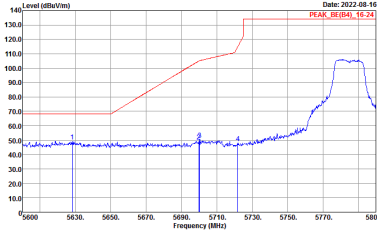
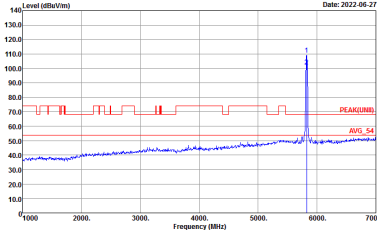
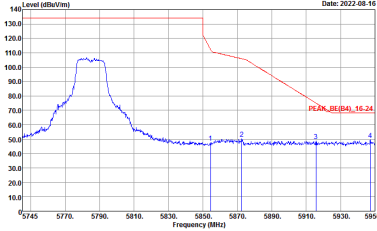
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

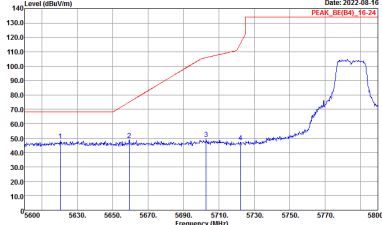
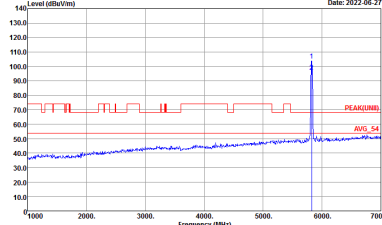
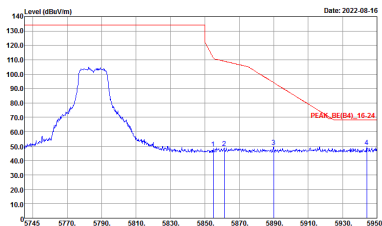
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(94)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(FUNDI) 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



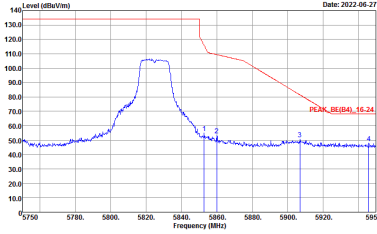
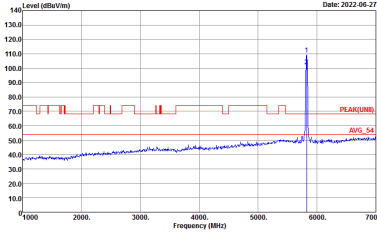
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



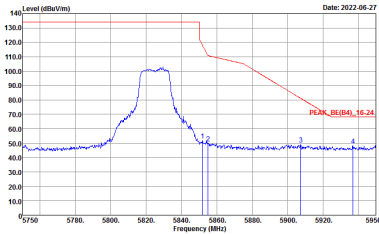
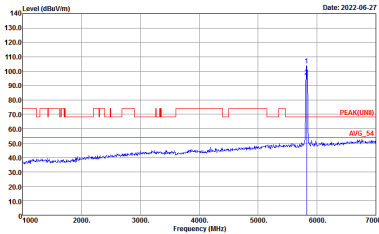
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 90120_02038_20210604 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02294_220623 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(B4)_16-24 3m 91200_02294_220623 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02294_220623 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-14Y Condition : PEAK(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



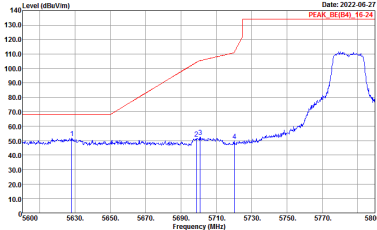
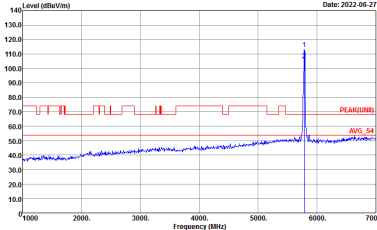
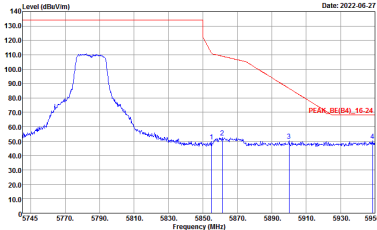
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

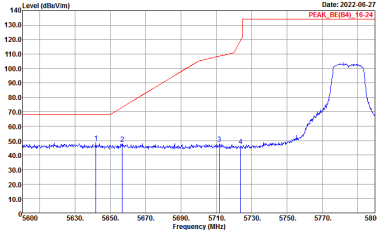
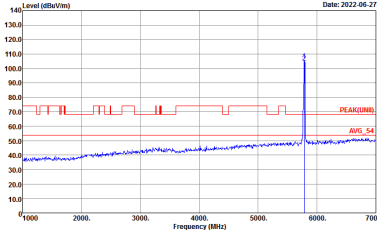
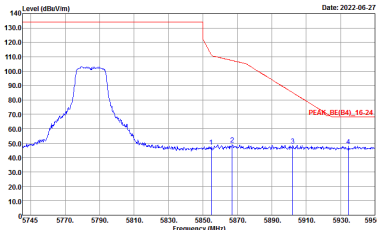


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-14Y Condition : PEAK(UNII)_16-24 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

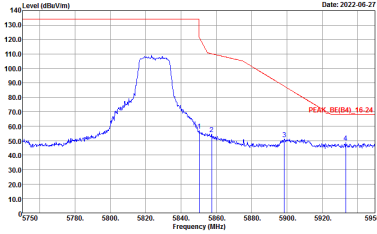
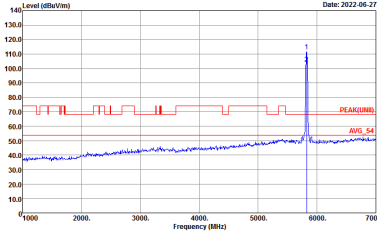


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

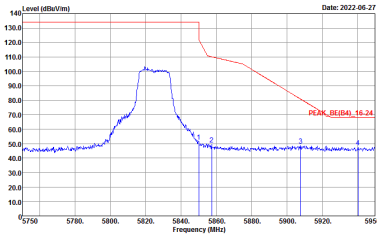
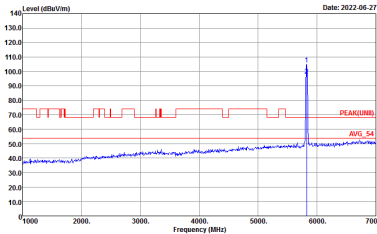


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



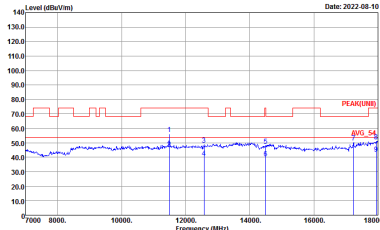
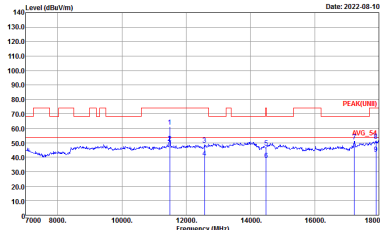
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



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 : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_02294_220623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_02294_220623 VERTICAL



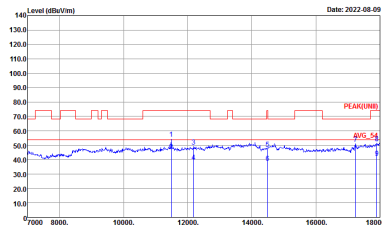
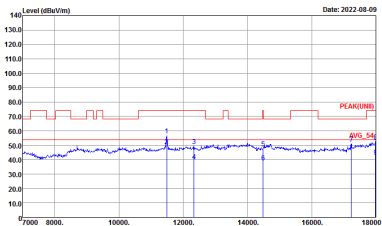
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-08-09 Frequency (MHz) Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120b_02294_220623 HORIZONTAL	Level (dBuV/m) Date: 2022-08-09 Frequency (MHz) Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120b_02294_220623 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-08-10 Site : 03CH15-HY Condition : PEAK(UNB) 3m 91200_02294_220623 HORIZONTAL	Level (dBuV/m) Date: 2022-08-10 Site : 03CH15-HY Condition : PEAK(UNB) 3m 91200_02294_220623 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 Avg.	 Site : 03CHI5-HY Condition : PEAK(UNII) 3m 91200_02294_220623 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK(UNII) 3m 91200_02294_220623 VERTICAL



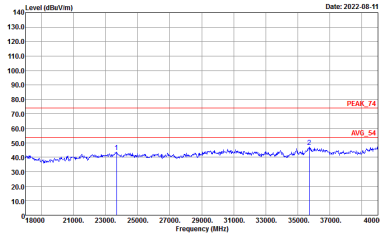
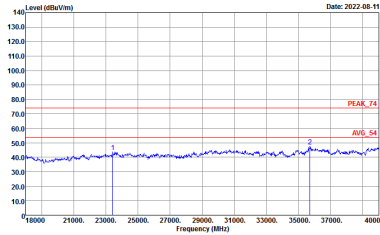
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-08-10 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120b_02294_220623 HORIZONTAL	Level (dBuV/m) Date: 2022-08-10 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120b_02294_220623 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-08-10 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120b_02294_220623 HORIZONTAL	Level (dBuV/m) Date: 2022-08-10 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120b_02294_220623 VERTICAL

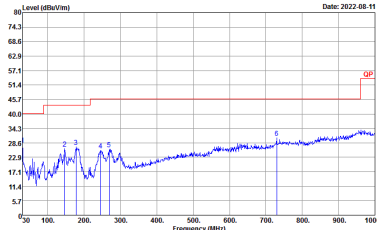
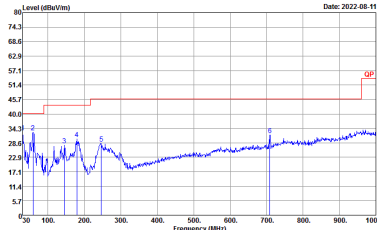


Emission above 18GHz
5GHz WIFI 802.11a (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 1m SHF_00993_211130 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 1m SHF_00993_211130 VERTICAL



Emission below 1GHz
5GHz WIFI 802.11a (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m 81LO6_41912_20220206 HORIZONTAL	 Site : 03CH15-HY Condition : QP 3m 81LO6_41912_20220206 VERTICAL



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	100.00	-	-	10Hz
1	5GHz 802.11n HT20	100.00	-	-	10Hz

