

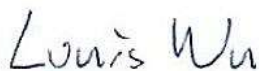


FCC RADIO TEST REPORT

FCC ID : 2A7DJ-2346766867652
Equipment : Smart Radio LTE with Walkie-Talkie
Brand Name : weavix
Model Name : walt
Applicant : PK Solutions LLC
10811 E Harry St. Wichita, KS 67207, USA
Manufacturer : Arima Communications (Jiangsu) Co., Ltd
No.168, Jiaotong North Road, Economic
and Technological Development Zone,
Wujiang District Suzhou City, Jiangsu
Province, P.R.China
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jun. 17, 2022 and testing was performed from Jul. 12, 2022 to Aug. 16, 2022. 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 from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR261611F	01	Initial issue of report	Sep. 22, 2022

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	8.19 dB under the limit at 30.000 MHz
3.5	15.207	AC Conducted Emission	Pass	7.00 dB under the limit at 0.598 MHz
3.6	15.203 15.407(a)	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: Avis Chuang

Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

Product Feature	
Antenna Type	WWAN: PIFA Antenna WLAN: Loop Antenna Bluetooth: Loop Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna NFC: Loop Antenna
HW Version	0910MB-003
SW Version	2.A.0025

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	-3.7

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. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY, 03CH07-HY

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

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 (TAF Code: 3786)
Remark	The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory.

FCC designation No.: TW1190 and 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 the worst cases 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
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

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

2.2 Test Mode

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

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

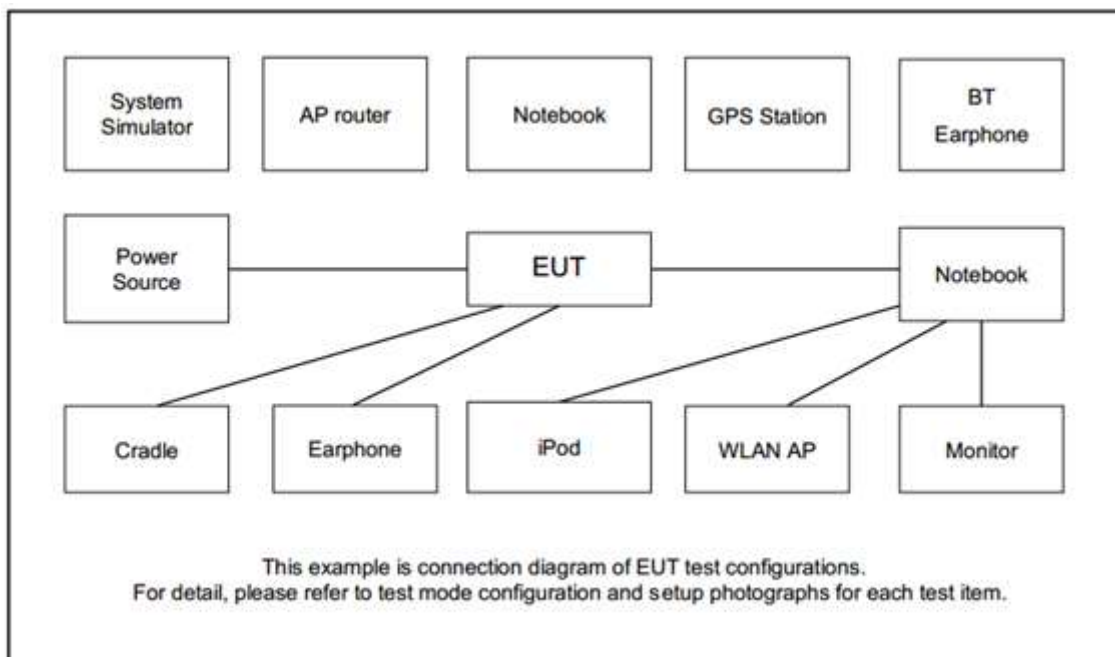
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + USB Cable (Charging from AC Adapter) + Earphone

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

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



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
4.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



2.5 EUT Operation Test Setup

The RF test items, utility "QRCT4.0.00158.0" 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.

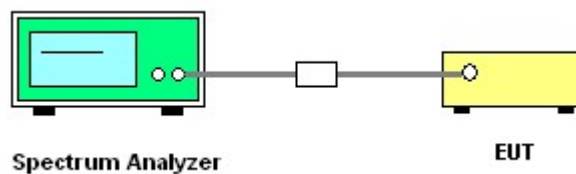
3.1.2 Measuring Instruments

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

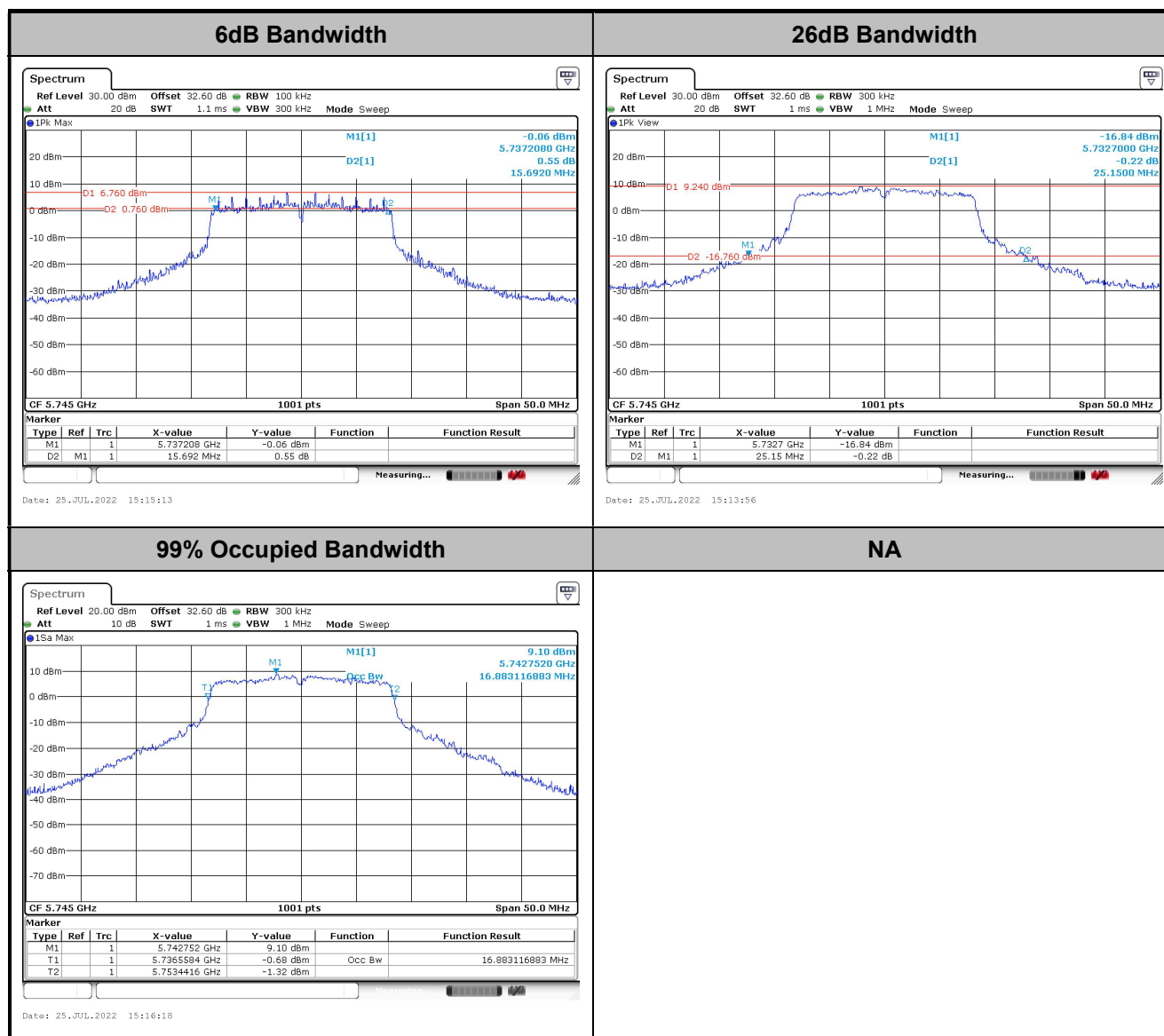


3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



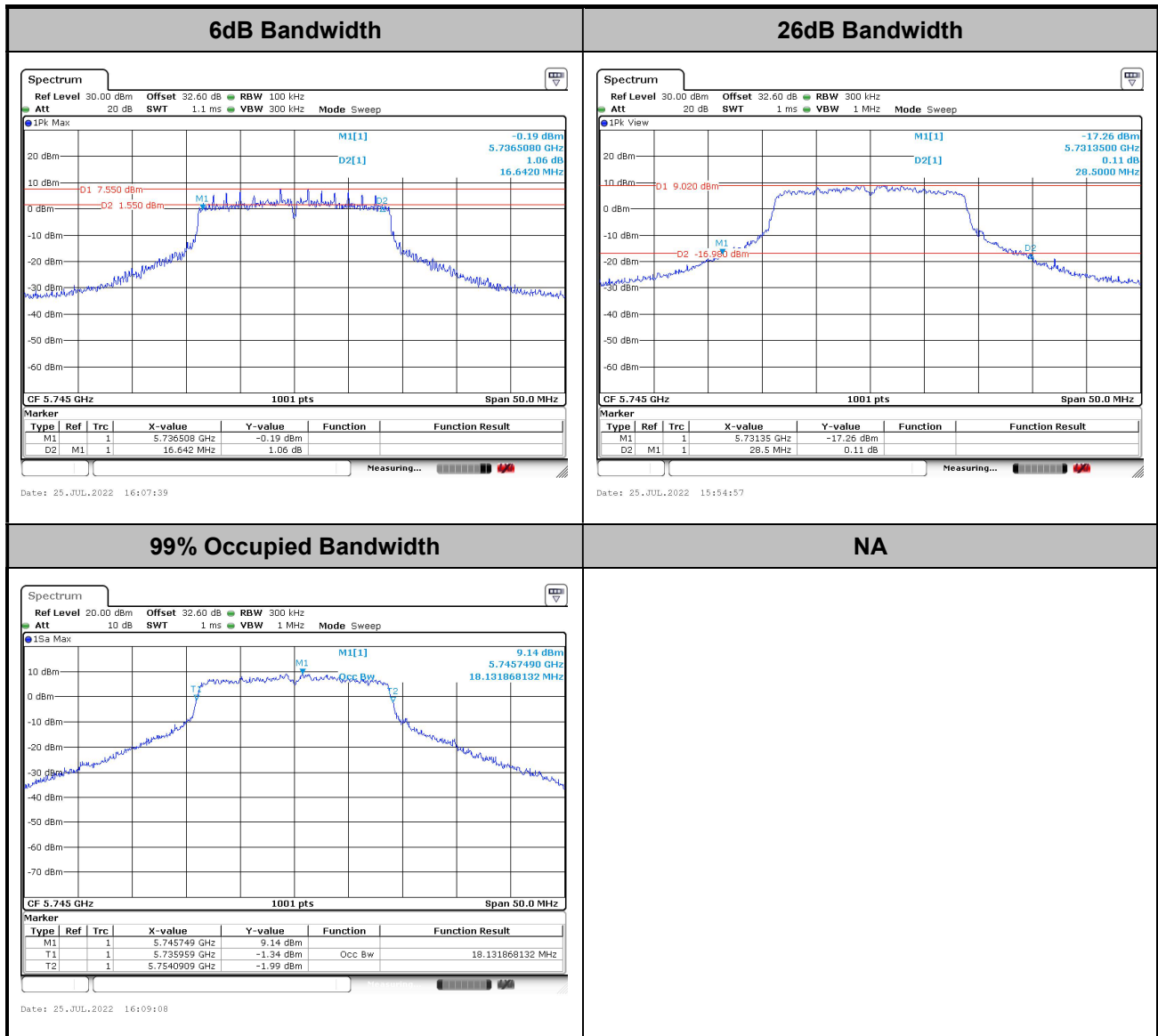
<802.11a>



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



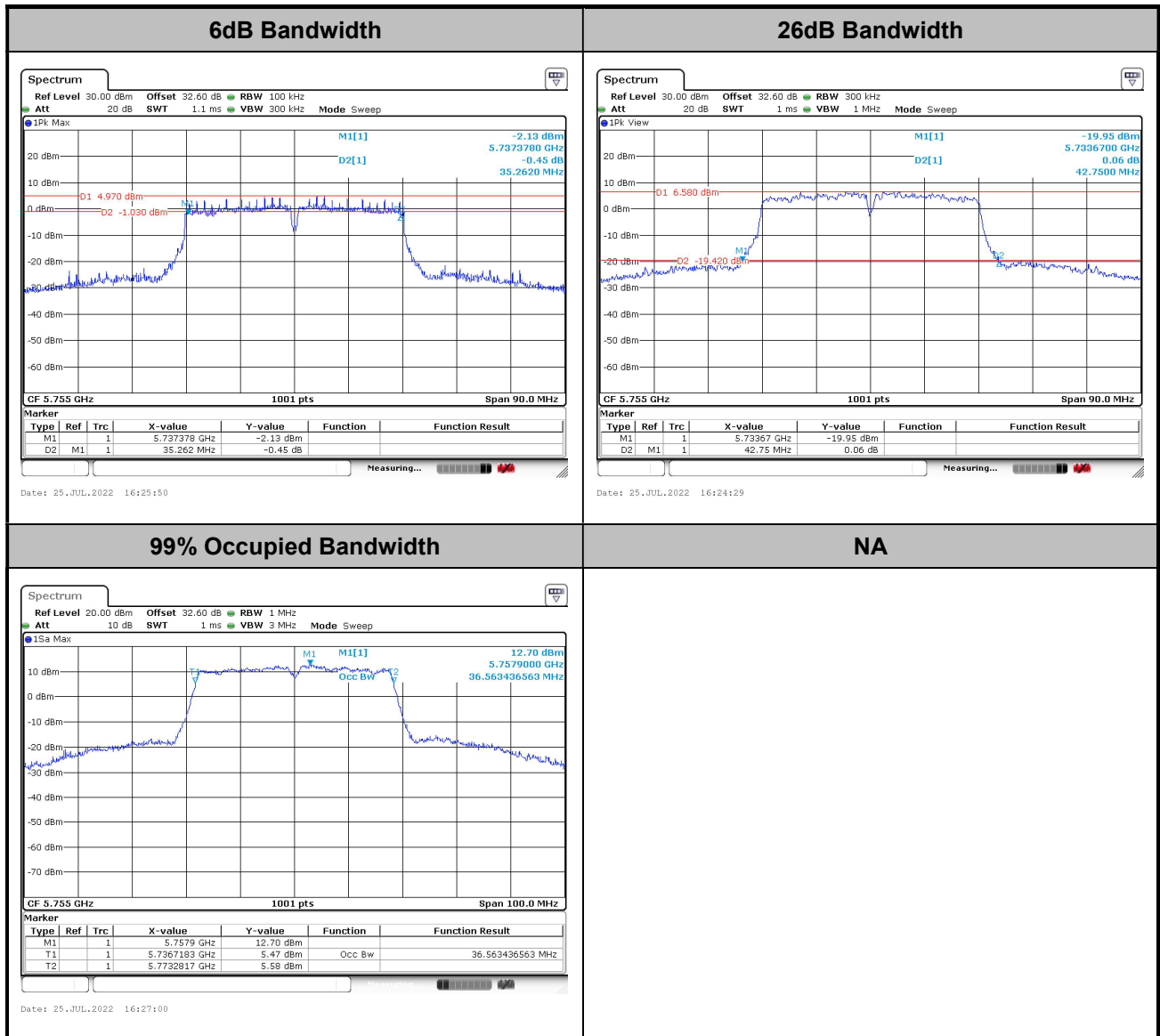
<802.11ac VHT20>



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



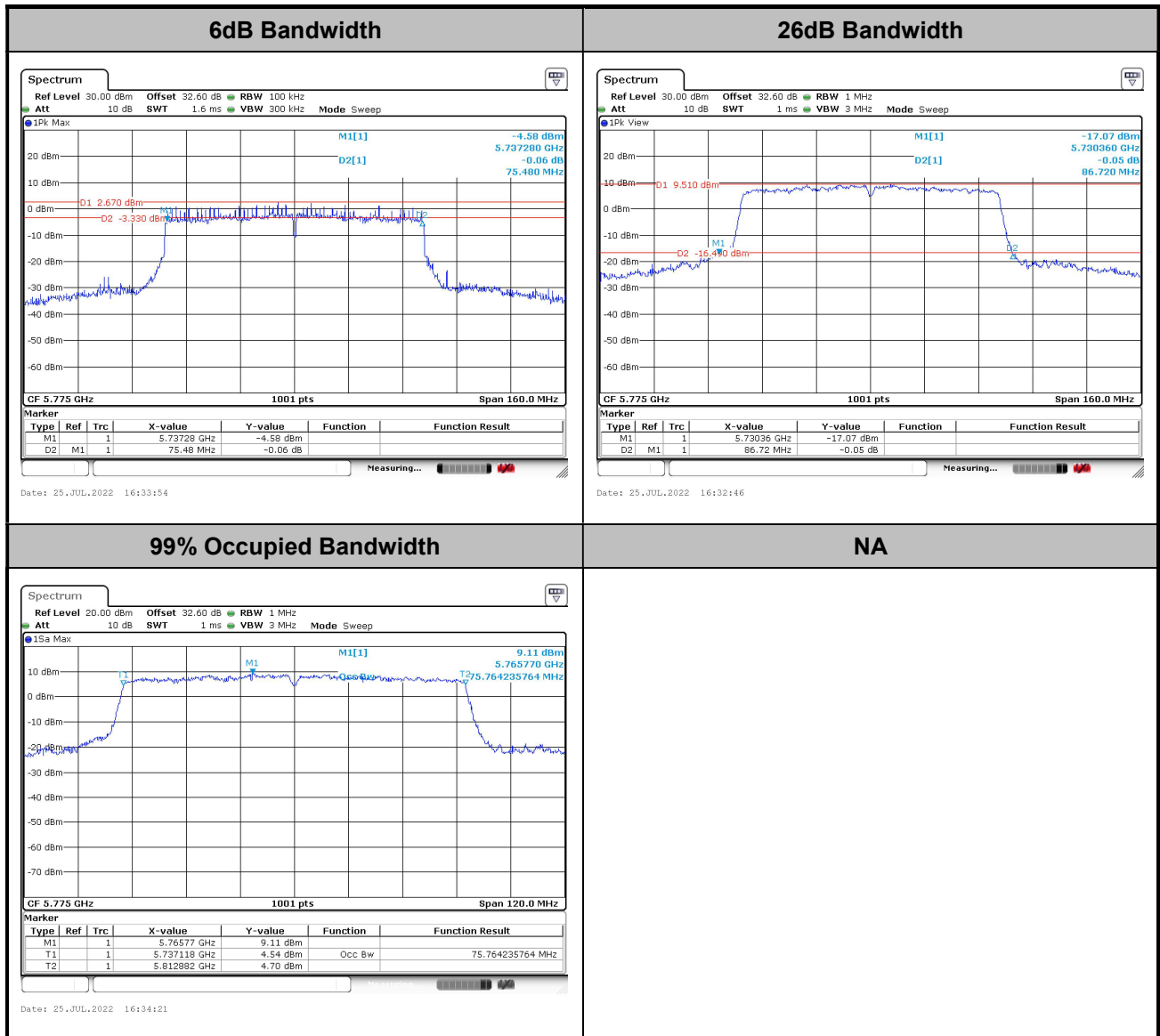
<802.11ac VHT40>



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



<802.11ac VHT80>



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.

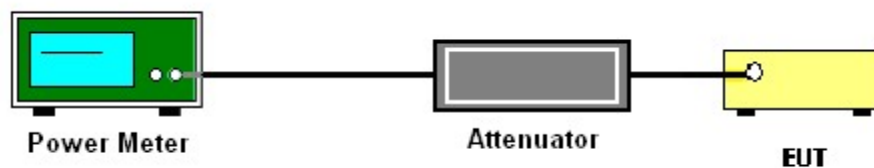
3.2.3 Test Procedures

The testing follows Method PM-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

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

3.3.3 Test Procedures

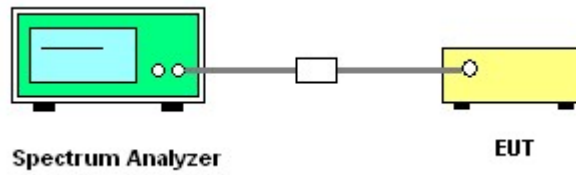
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-3

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

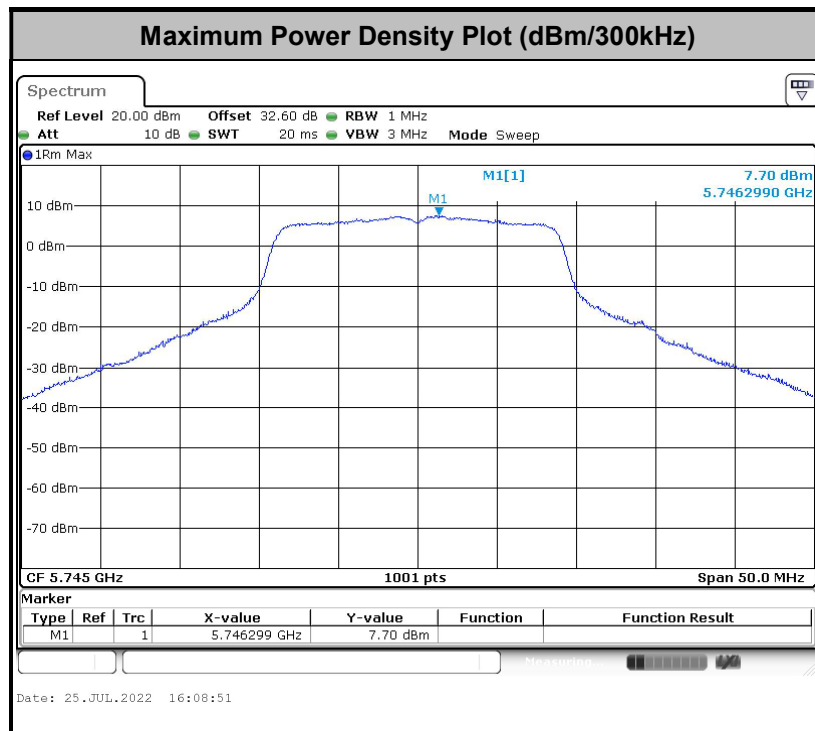
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Add $10 \log (500 \text{ kHz/RBW})$ to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the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

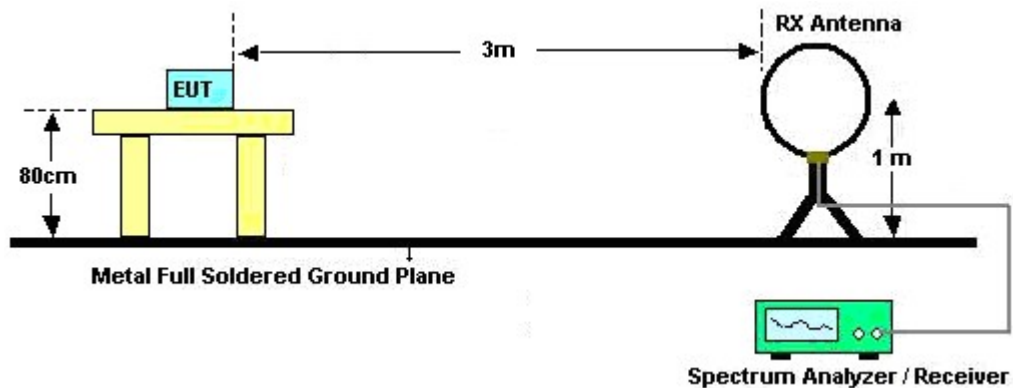
3.4.3 Test Procedures

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.

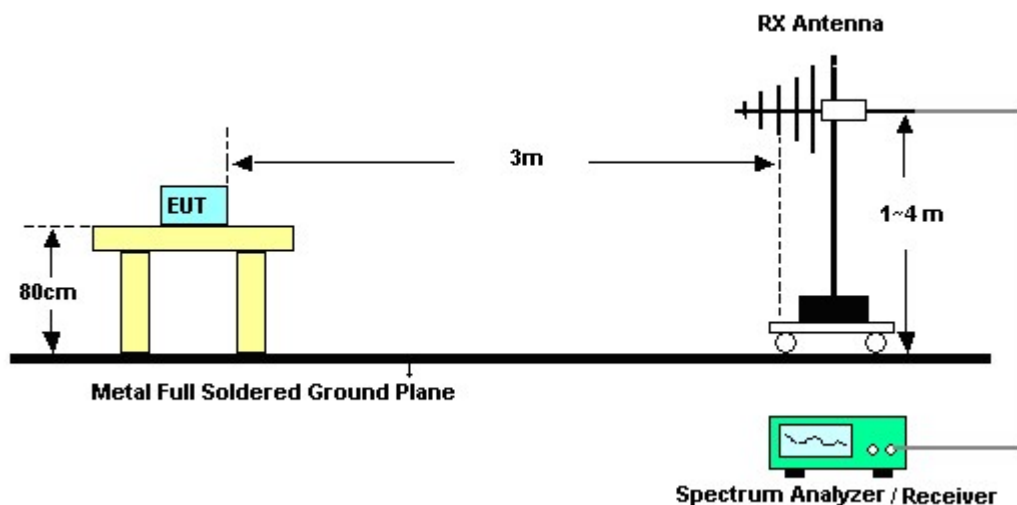
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

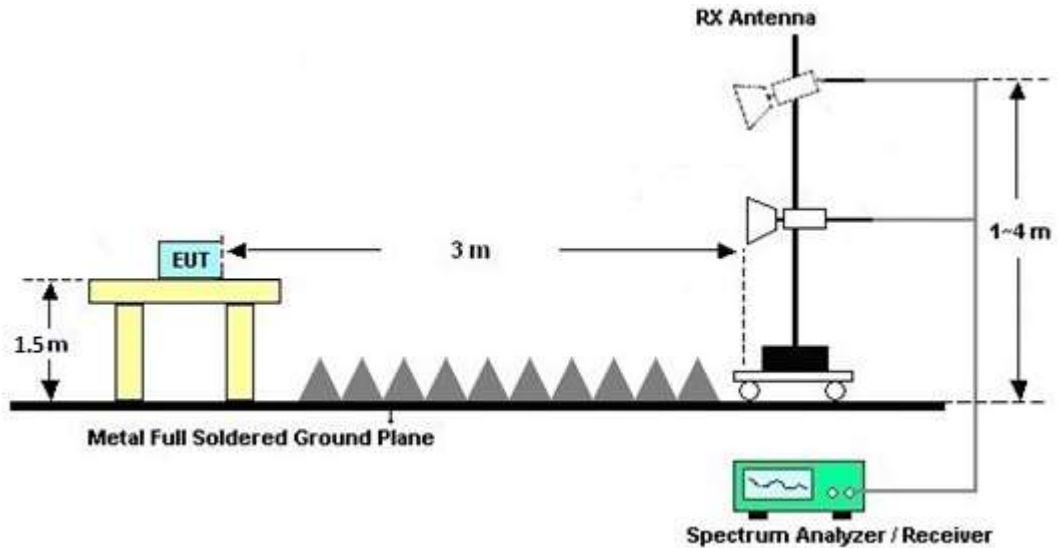
For radiated emissions below 30MHz



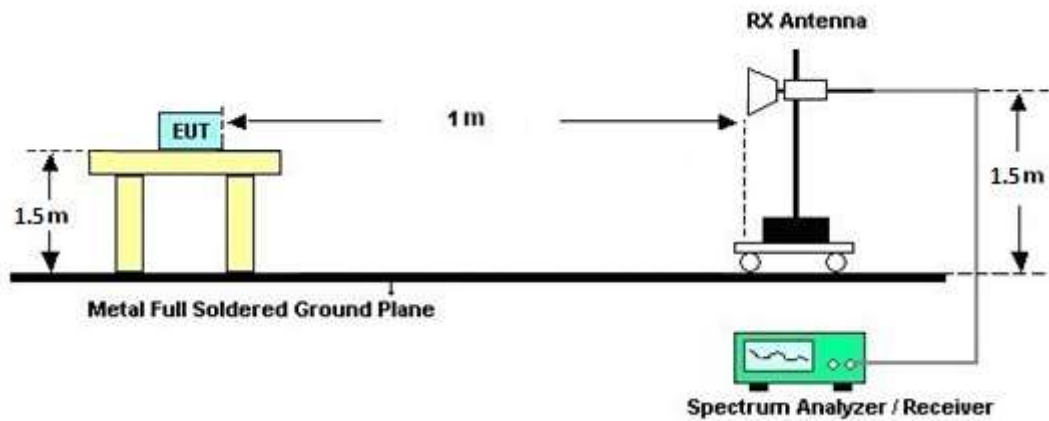
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated 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.

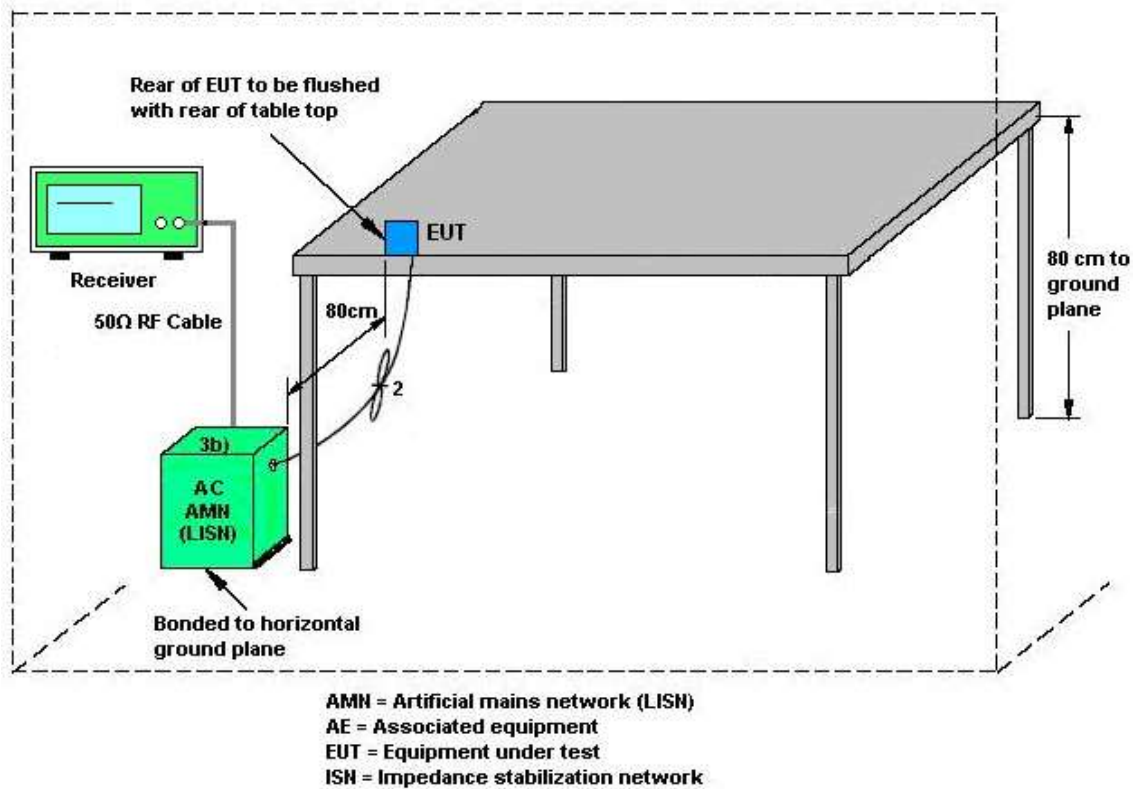
3.5.2 Measuring Instruments

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

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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 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
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 16, 2021	Jul. 15, 2022~ Jul. 25, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Jul. 15, 2022~ Jul. 25, 2022	Dec. 15, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Jul. 15, 2022~ Jul. 25, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 24, 2022	Jul. 19, 2022~ Aug. 16, 2022	Apr. 23, 2023	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2021	Jul. 19, 2022~ Aug. 16, 2022	Dec. 02, 2022	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 21, 2022	Jul. 19, 2022~ Aug. 16, 2022	Apr. 20, 2023	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 04, 2021	Jul. 19, 2022~ Aug. 16, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 04, 2021	Jul. 19, 2022~ Aug. 16, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18-40GHz	Dec. 24, 2021	Jul. 19, 2022~ Jul. 27, 2022	Dec. 23, 2022	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Jul. 28, 2022~ Aug. 16, 2022	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 27, 2022	Jul. 19, 2022~ Jul. 27, 2022	May 26, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2022	Jul. 28, 2022~ Aug. 16, 2022	Jul. 21, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 23, 2022	Jul. 19, 2022~ Aug. 16, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 23, 2022	Jul. 19, 2022~ Aug. 16, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 23, 2022	Jul. 19, 2022~ Aug. 16, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 17, 2021	Jul. 19, 2022~ Aug. 16, 2022	Sep. 16, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	Jul. 19, 2022~ Aug. 16, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 14, 2022	Jul. 19, 2022~ Aug. 16, 2022	Apr. 13, 2023	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Jul. 19, 2022~ Aug. 16, 2022	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Jul. 19, 2022~ Aug. 16, 2022	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Jul. 19, 2022~ Aug. 16, 2022	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jul. 19, 2022~ Aug. 16, 2022	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Jul. 19, 2022~ Aug. 16, 2022	N/A	Radiation (03CH07-HY)
USB Data Logger	TECEP	TR-32	HE17XB2495	N/A	Mar. 07, 2022	Jul. 19, 2022~ Aug. 16, 2022	Mar. 06, 2023	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Jul. 19, 2022~ Aug. 16, 2022	Nov. 29, 2022	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	Jul. 12, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Jul. 12, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Jul. 12, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Jul. 12, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jul. 12, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2021	Jul. 12, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Jul. 12, 2022	Dec. 29, 2022	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
--	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.0 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2022/07/15~2022/07/25	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	16.88	-	25.15	-	15.69	-	0.5	Pass
11a	6Mbps	1	157	5785	16.88	-	25.05	-	15.94	-	0.5	Pass
11a	6Mbps	1	165	5825	16.83	-	25.05	-	15.98	-	0.5	Pass
VHT20	MCS0	1	149	5745	18.13	-	28.50	-	16.64	-	0.5	Pass
VHT20	MCS0	1	157	5785	18.13	-	27.40	-	16.64	-	0.5	Pass
VHT20	MCS0	1	165	5825	18.03	-	26.75	-	16.03	-	0.5	Pass
VHT40	MCS0	1	151	5755	36.56	-	42.75	-	35.26	-	0.5	Pass
VHT40	MCS0	1	159	5795	36.56	-	42.39	-	35.44	-	0.5	Pass
VHT80	MCS0	1	155	5775	75.76	-	86.72	-	75.48	-	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	16.35	-		30.00	-	-3.70	-	Pass
11a	6Mbps	1	157	5785	16.35	-		30.00	-	-3.70	-	Pass
11a	6Mbps	1	165	5825	16.35	-		30.00	-	-3.70	-	Pass
HT20	MCS0	1	149	5745	16.75	-		30.00	-	-3.70	-	Pass
HT20	MCS0	1	157	5785	16.45	-		30.00	-	-3.70	-	Pass
HT20	MCS0	1	165	5825	16.45	-		30.00	-	-3.70	-	Pass
HT40	MCS0	1	151	5755	17.45	-		30.00	-	-3.70	-	Pass
HT40	MCS0	1	159	5795	17.05	-		30.00	-	-3.70	-	Pass
VHT20	MCS0	1	149	5745	16.85	-		30.00	-	-3.70	-	Pass
VHT20	MCS0	1	157	5785	16.55	-		30.00	-	-3.70	-	Pass
VHT20	MCS0	1	165	5825	16.55	-		30.00	-	-3.70	-	Pass
VHT40	MCS0	1	151	5755	17.55	-		30.00	-	-3.70	-	Pass
VHT40	MCS0	1	159	5795	17.15	-		30.00	-	-3.70	-	Pass
VHT80	MCS0	1	155	5775	17.25	-		30.00	-	-3.70	-	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	-	9.57	-		30.00	-	-3.70	-	Pass
11a	6Mbps	1	157	5785	2.22	-	9.43	-		30.00	-	-3.70	-	Pass
11a	6Mbps	1	165	5825	2.22	-	9.55	-		30.00	-	-3.70	-	Pass
VHT20	MCS0	1	149	5745	2.22	-	9.92	-		30.00	-	-3.70	-	Pass
VHT20	MCS0	1	157	5785	2.22	-	9.79	-		30.00	-	-3.70	-	Pass
VHT20	MCS0	1	165	5825	2.22	-	9.74	-		30.00	-	-3.70	-	Pass
VHT40	MCS0	1	151	5755	2.22	-	7.09	-		30.00	-	-3.70	-	Pass
VHT40	MCS0	1	159	5795	2.22	-	6.91	-		30.00	-	-3.70	-	Pass
VHT80	MCS0	1	155	5775	2.22	-	4.95	-		30.00	-	-3.70	-	Pass



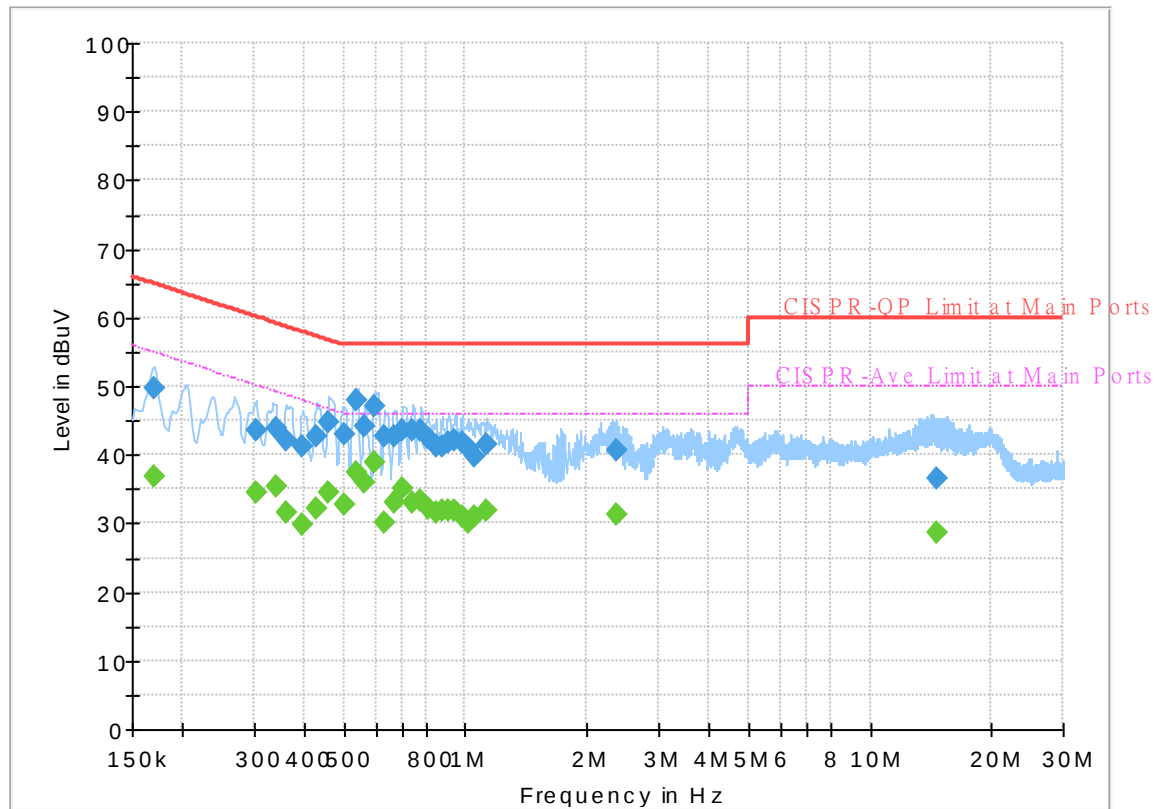
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 261611
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final_Result

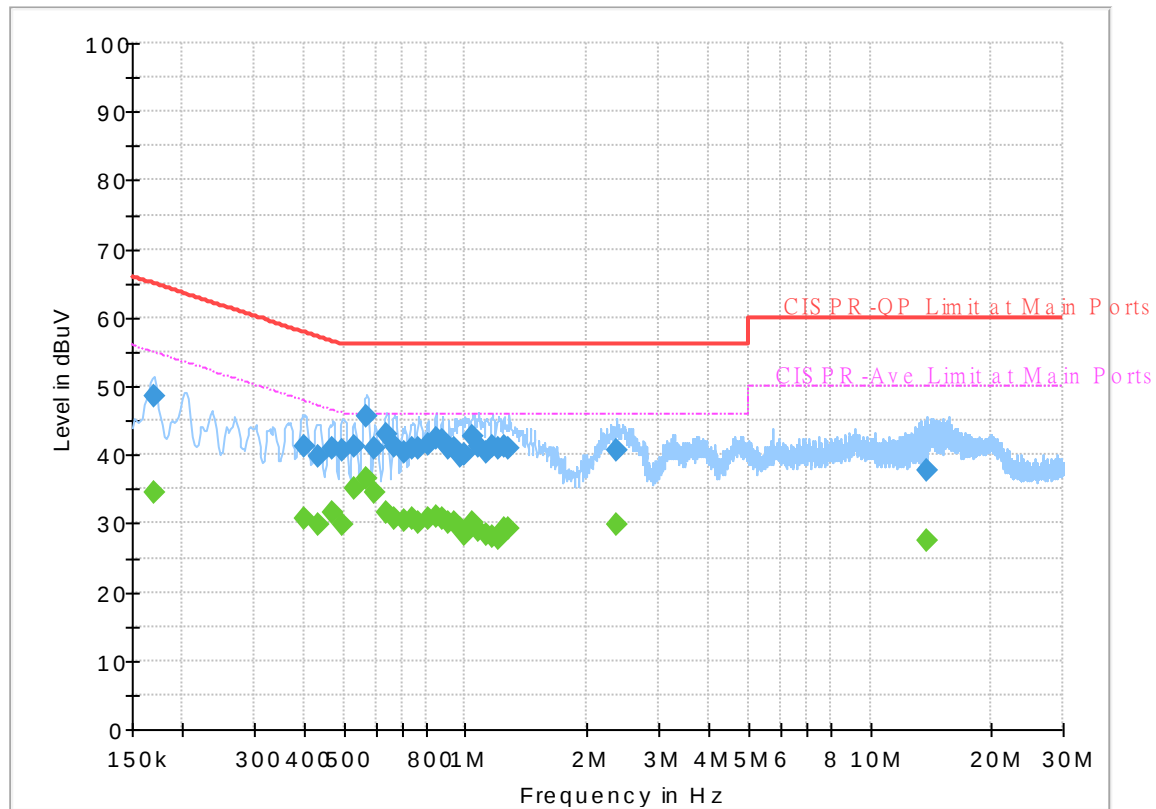
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170250	---	36.77	54.95	18.18	L1	OFF	19.6
0.170250	49.70	---	64.95	15.25	L1	OFF	19.6
0.303000	---	34.64	50.16	15.52	L1	OFF	19.6
0.303000	43.67	---	60.16	16.49	L1	OFF	19.6
0.339000	---	35.50	49.23	13.73	L1	OFF	19.6
0.339000	43.88	---	59.23	15.35	L1	OFF	19.6
0.359250	---	31.47	48.75	17.28	L1	OFF	19.6
0.359250	42.03	---	58.75	16.72	L1	OFF	19.6
0.395250	---	29.70	47.95	18.25	L1	OFF	19.6
0.395250	41.33	---	57.95	16.62	L1	OFF	19.6
0.429000	---	32.18	47.27	15.09	L1	OFF	19.6
0.429000	42.69	---	57.27	14.58	L1	OFF	19.6
0.460500	---	34.47	46.68	12.21	L1	OFF	19.6
0.460500	44.75	---	56.68	11.93	L1	OFF	19.6
0.501000	---	32.74	46.00	13.26	L1	OFF	19.6
0.501000	42.89	---	56.00	13.11	L1	OFF	19.6
0.539250	---	37.33	46.00	8.67	L1	OFF	19.6
0.539250	47.81	---	56.00	8.19	L1	OFF	19.6
0.564000	---	36.03	46.00	9.97	L1	OFF	19.6
0.564000	44.27	---	56.00	11.73	L1	OFF	19.6
0.597750	---	39.00	46.00	7.00	L1	OFF	19.6

0.597750	46.99	---	56.00	9.01	L1	OFF	19.6
0.631500	---	30.21	46.00	15.79	L1	OFF	19.6
0.631500	42.59	---	56.00	13.41	L1	OFF	19.6
0.669750	---	32.92	46.00	13.08	L1	OFF	19.6
0.669750	42.65	---	56.00	13.35	L1	OFF	19.6
0.699000	---	34.99	46.00	11.01	L1	OFF	19.6
0.699000	43.53	---	56.00	12.47	L1	OFF	19.6
0.741750	---	33.02	46.00	12.98	L1	OFF	19.6
0.741750	43.46	---	56.00	12.54	L1	OFF	19.6
0.777750	---	33.24	46.00	12.76	L1	OFF	19.6
0.777750	43.45	---	56.00	12.55	L1	OFF	19.6
0.811500	---	32.07	46.00	13.93	L1	OFF	19.6
0.811500	42.43	---	56.00	13.57	L1	OFF	19.6
0.843000	---	31.44	46.00	14.56	L1	OFF	19.6
0.843000	41.24	---	56.00	14.76	L1	OFF	19.6
0.879000	---	31.88	46.00	14.12	L1	OFF	19.6
0.879000	41.11	---	56.00	14.89	L1	OFF	19.6
0.912750	---	31.73	46.00	14.27	L1	OFF	19.6
0.912750	41.78	---	56.00	14.22	L1	OFF	19.6
0.944250	---	31.94	46.00	14.06	L1	OFF	19.6
0.944250	42.20	---	56.00	13.80	L1	OFF	19.6
0.980250	---	31.06	46.00	14.94	L1	OFF	19.6
0.980250	41.81	---	56.00	14.19	L1	OFF	19.6
1.014000	---	30.01	46.00	15.99	L1	OFF	19.7
1.014000	40.89	---	56.00	15.11	L1	OFF	19.7
1.056750	---	30.99	46.00	15.01	L1	OFF	19.7
1.056750	39.86	---	56.00	16.14	L1	OFF	19.7
1.128750	---	31.90	46.00	14.10	L1	OFF	19.7
1.128750	41.58	---	56.00	14.42	L1	OFF	19.7
2.359500	---	31.16	46.00	14.84	L1	OFF	19.7
2.359500	40.65	---	56.00	15.35	L1	OFF	19.7
14.561250	---	28.53	50.00	21.47	L1	OFF	20.3
14.561250	36.65	---	60.00	23.35	L1	OFF	20.3

EUT Information

Report NO : 261611
 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)
0.170250	---	34.54	54.95	20.41	N	OFF	19.6
0.170250	48.47	---	64.95	16.48	N	OFF	19.6
0.399750	---	30.79	47.86	17.07	N	OFF	19.6
0.399750	41.23	---	57.86	16.63	N	OFF	19.6
0.433500	---	29.71	47.19	17.48	N	OFF	19.6
0.433500	39.87	---	57.19	17.32	N	OFF	19.6
0.469500	---	31.61	46.52	14.91	N	OFF	19.6
0.469500	40.94	---	56.52	15.58	N	OFF	19.6
0.496500	---	29.83	46.06	16.23	N	OFF	19.6
0.496500	40.65	---	56.06	15.41	N	OFF	19.6
0.530250	---	35.20	46.00	10.80	N	OFF	19.6
0.530250	41.36	---	56.00	14.64	N	OFF	19.6
0.570750	---	36.47	46.00	9.53	N	OFF	19.6
0.570750	45.67	---	56.00	10.33	N	OFF	19.6
0.597750	---	34.53	46.00	11.47	N	OFF	19.6
0.597750	40.81	---	56.00	15.19	N	OFF	19.6
0.640500	---	31.64	46.00	14.36	N	OFF	19.6
0.640500	43.01	---	56.00	12.99	N	OFF	19.6
0.667500	---	30.57	46.00	15.43	N	OFF	19.6
0.667500	41.27	---	56.00	14.73	N	OFF	19.6
0.708000	---	30.29	46.00	15.71	N	OFF	19.6

0.708000	40.29	---	56.00	15.71	N	OFF	19.6
0.741750	---	30.57	46.00	15.43	N	OFF	19.6
0.741750	41.06	---	56.00	14.94	N	OFF	19.6
0.764250	---	30.08	46.00	15.92	N	OFF	19.6
0.764250	40.87	---	56.00	15.13	N	OFF	19.6
0.809250	---	30.61	46.00	15.39	N	OFF	19.6
0.809250	41.42	---	56.00	14.58	N	OFF	19.6
0.843000	---	31.00	46.00	15.00	N	OFF	19.6
0.843000	42.41	---	56.00	13.59	N	OFF	19.6
0.876750	---	30.56	46.00	15.44	N	OFF	19.6
0.876750	42.14	---	56.00	13.86	N	OFF	19.6
0.910500	---	30.15	46.00	15.85	N	OFF	19.6
0.910500	40.88	---	56.00	15.12	N	OFF	19.6
0.944250	---	30.03	46.00	15.97	N	OFF	19.6
0.944250	40.92	---	56.00	15.08	N	OFF	19.6
0.966750	---	29.22	46.00	16.78	N	OFF	19.6
0.966750	39.69	---	56.00	16.31	N	OFF	19.6
0.998250	---	28.24	46.00	17.76	N	OFF	19.6
0.998250	40.14	---	56.00	15.86	N	OFF	19.6
1.045500	---	30.05	46.00	15.95	N	OFF	19.6
1.045500	42.63	---	56.00	13.37	N	OFF	19.6
1.081500	---	28.81	46.00	17.19	N	OFF	19.6
1.081500	41.17	---	56.00	14.83	N	OFF	19.6
1.131000	---	28.29	46.00	17.71	N	OFF	19.6
1.131000	40.37	---	56.00	15.63	N	OFF	19.6
1.169250	---	28.20	46.00	17.80	N	OFF	19.6
1.169250	41.16	---	56.00	14.84	N	OFF	19.6
1.205250	---	27.91	46.00	18.09	N	OFF	19.6
1.205250	40.90	---	56.00	15.10	N	OFF	19.6
1.243500	---	29.36	46.00	16.64	N	OFF	19.6
1.243500	41.10	---	56.00	14.90	N	OFF	19.6
1.284000	---	29.19	46.00	16.81	N	OFF	19.7
1.284000	41.08	---	56.00	14.92	N	OFF	19.7
2.361750	---	29.96	46.00	16.04	N	OFF	19.7
2.361750	40.73	---	56.00	15.27	N	OFF	19.7
13.872750	---	27.54	50.00	22.46	N	OFF	20.2
13.872750	37.81	---	60.00	22.19	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, Ken Wu and Howard Huang	Temperature :	22~28.1°C
		Relative Humidity :	53.3~67.5%



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		5601	51.74	-16.46	68.2	39.94	34.7	12.24	35.14	100	357	P	H
		5699.2	59.37	-45.24	104.61	47.35	34.9	12.28	35.16	100	357	P	H
		5703.8	60.37	-45.9	106.27	48.32	34.92	12.29	35.16	100	357	P	H
		5724.8	63.78	-57.96	121.74	51.59	35.05	12.3	35.16	100	357	P	H
	*	5745	107.11	-	-	94.8	35.17	12.31	35.17	100	357	P	H
	*	5745	99.11	-	-	86.8	35.17	12.31	35.17	100	357	A	H
		5640.4	51.76	-16.44	68.2	39.95	34.7	12.26	35.15	100	299	P	V
		5690.8	53.74	-44.68	98.42	41.76	34.86	12.28	35.16	100	299	P	V
		5706.6	56.98	-50.07	107.05	44.91	34.94	12.29	35.16	100	299	P	V
		5724.8	59.4	-62.34	121.74	47.21	35.05	12.3	35.16	100	299	P	V
	*	5745	102.05	-	-	89.74	35.17	12.31	35.17	100	299	P	V
	*	5745	93.91	-	-	81.6	35.17	12.31	35.17	100	299	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		5620	51.76	-16.44	68.2	39.95	34.7	12.25	35.14	100	357	P	H
		5690	52.39	-45.44	97.83	40.41	34.86	12.28	35.16	100	357	P	H
		5715.8	54.89	-54.74	109.63	42.77	34.99	12.29	35.16	100	357	P	H
		5724.8	56.55	-65.19	121.74	44.36	35.05	12.3	35.16	100	357	P	H
	*	5785	106.62	-	-	94.27	35.2	12.32	35.17	100	357	P	H
	*	5785	98.39	-	-	86.04	35.2	12.32	35.17	100	357	A	H
		5850.8	53.24	-67.14	120.38	40.82	35.2	12.4	35.18	100	357	P	H
		5856	52.59	-57.93	110.52	40.16	35.2	12.41	35.18	100	357	P	H
		5897.2	51.02	-37.71	88.73	38.54	35.2	12.47	35.19	100	357	P	H
		5944.2	50.66	-17.54	68.2	38.21	35.11	12.54	35.2	100	357	P	H
		5627.4	51.19	-17.01	68.2	39.38	34.7	12.25	35.14	100	299	P	V
		5666.6	52.02	-28.5	80.52	40.13	34.77	12.27	35.15	100	299	P	V
		5716.6	50.72	-59.13	109.85	38.59	35	12.29	35.16	100	299	P	V
		5722.8	51.61	-65.57	117.18	39.43	35.04	12.3	35.16	100	299	P	V
	*	5785	102.25	-	-	89.9	35.2	12.32	35.17	100	299	P	V
	*	5785	93.75	-	-	81.4	35.2	12.32	35.17	100	299	A	V
		5853.2	51.7	-63.2	114.9	39.27	35.2	12.41	35.18	100	299	P	V
		5860.8	50.94	-58.23	109.17	38.51	35.2	12.42	35.19	100	299	P	V
		5886	50.44	-46.59	97.03	37.98	35.2	12.45	35.19	100	299	P	V
		5928.8	50.88	-17.32	68.2	38.42	35.14	12.52	35.2	100	299	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	107.45	-	-	95.06	35.2	12.37	35.18	100	357	P	H
	*	5825	99.19	-	-	86.8	35.2	12.37	35.18	100	357	A	H
		5853.4	60.17	-54.28	114.45	47.74	35.2	12.41	35.18	100	357	P	H
		5862	59.97	-48.87	108.84	47.54	35.2	12.42	35.19	100	357	P	H
		5880.2	56.11	-45.23	101.34	43.65	35.2	12.45	35.19	100	357	P	H
		5934	50.36	-17.84	68.2	37.91	35.13	12.52	35.2	100	357	P	H
	*	5825	101.26	-	-	88.87	35.2	12.37	35.18	106	296	P	V
	*	5825	92.88	-	-	80.49	35.2	12.37	35.18	106	296	A	V
		5851.6	55.37	-63.18	118.55	42.95	35.2	12.4	35.18	106	296	P	V
		5866.2	55.11	-52.55	107.66	42.67	35.2	12.43	35.19	106	296	P	V
		5885.8	51.53	-45.65	97.18	39.07	35.2	12.45	35.19	106	296	P	V
		5942.8	50.11	-18.09	68.2	37.66	35.11	12.54	35.2	106	296	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (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	46.4	-27.6	74	45.85	38.11	19.32	56.88	-	-	P	H
		14491	49.61	-24.39	74	45.59	39.58	21.96	57.52	-	-	P	H
		14491	39.16	-14.84	54	35.14	39.58	21.96	57.52	-	-	A	H
		16064	52.09	-21.91	74	44.07	41.13	22.92	56.03	-	-	P	H
		16064	40.51	-13.49	54	32.49	41.13	22.92	56.03	-	-	A	H
		17235	51.65	-16.55	68.2	41.95	41.5	23.89	55.69	-	-	P	H
		17824	53.51	-20.49	74	42.72	41.55	24.37	55.13	-	-	P	H
		17824	41.66	-12.34	54	30.87	41.55	24.37	55.13	-	-	A	H
		11490	47.11	-26.89	74	46.56	38.11	19.32	56.88	-	-	P	V
		14491	49.6	-24.4	74	45.58	39.58	21.96	57.52	-	-	P	V
		14491	39.28	-14.72	54	35.26	39.58	21.96	57.52	-	-	A	V
		16020	52.13	-21.87	74	44.2	41.04	22.89	56	-	-	P	V
		16020	40.18	-13.82	54	32.25	41.04	22.89	56	-	-	A	V
		17235	52.58	-15.62	68.2	42.88	41.5	23.89	55.69	-	-	P	V
		17758	53.72	-20.28	74	43	41.56	24.32	55.16	-	-	P	V
		17758	41.95	-12.05	54	31.23	41.56	24.32	55.16	-	-	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	46.87	-27.13	74	45.99	38.24	19.39	56.75	-	-	P	H
		14491	49.75	-24.25	74	45.73	39.58	21.96	57.52	-	-	P	H
		14491	39.29	-14.71	54	35.27	39.58	21.96	57.52	-	-	A	H
		16119	51.35	-22.65	74	43.25	41.2	22.97	56.07	-	-	P	H
		16119	40.15	-13.85	54	32.05	41.2	22.97	56.07	-	-	A	H
		17355	53.34	-14.86	68.2	43.41	41.44	23.99	55.5	-	-	P	H
		17769	53.94	-20.06	74	43.2	41.57	24.33	55.16	-	-	P	H
		17769	41.97	-12.03	54	31.23	41.57	24.33	55.16	-	-	A	H
		11570	47.07	-26.93	74	46.19	38.24	19.39	56.75	-	-	P	V
		14491	49.33	-24.67	74	45.31	39.58	21.96	57.52	-	-	P	V
		14491	39.22	-14.78	54	35.2	39.58	21.96	57.52	-	-	A	V
		15910	51.82	-22.18	74	44.23	40.91	22.82	56.14	-	-	P	V
		15910	40.57	-13.43	54	32.98	40.91	22.82	56.14	-	-	A	V
		17355	53.84	-14.36	68.2	43.91	41.44	23.99	55.5	-	-	P	V
		17868	54.13	-19.87	74	43.37	41.46	24.41	55.11	-	-	P	V
		17868	42.1	-11.9	54	31.34	41.46	24.41	55.11	-	-	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		11650	47.65	-26.35	74	46.42	38.41	19.46	56.64	-	-	P	H
		14491	50.11	-23.89	74	46.09	39.58	21.96	57.52	-	-	P	H
		14491	39.28	-14.72	54	35.26	39.58	21.96	57.52	-	-	A	H
		16086	51.66	-22.34	74	43.6	41.17	22.94	56.05	-	-	P	H
		16086	40.4	-13.6	54	32.34	41.17	22.94	56.05	-	-	A	H
		17472	53.31	-14.89	68.2	43.22	41.33	24.08	55.32	-	-	P	H
		17890	53.76	-20.24	74	43.02	41.42	24.42	55.1	-	-	P	H
		17890	42.23	-11.77	54	31.49	41.42	24.42	55.1	-	-	A	H
		11650	47.33	-26.67	74	46.1	38.41	19.46	56.64	-	-	P	V
		14491	49.36	-24.64	74	45.34	39.58	21.96	57.52	-	-	P	V
		14491	39.32	-14.68	54	35.3	39.58	21.96	57.52	-	-	A	V
		15899	52.14	-21.86	74	44.59	40.9	22.81	56.16	-	-	P	V
		15899	40.55	-13.45	54	33	40.9	22.81	56.16	-	-	A	V
		17472	53.18	-15.02	68.2	43.09	41.33	24.08	55.32	-	-	P	V
		17923	53.21	-20.79	74	42.42	41.42	24.46	55.09	-	-	P	V
		17923	42.2	-11.8	54	31.41	41.42	24.46	55.09	-	-	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 802.11ac VHT20 (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)
802.11ac VHT20 CH 149 5745MHz		5649.8	51.74	-16.46	68.2	39.93	34.7	12.26	35.15	100	355	P	H
		5698.8	60.13	-44.19	104.32	48.11	34.9	12.28	35.16	100	355	P	H
		5708.4	61.06	-46.49	107.55	48.98	34.95	12.29	35.16	100	355	P	H
		5725	68.62	-53.58	122.2	56.43	35.05	12.3	35.16	100	355	P	H
	*	5745	107.55	-	-	95.24	35.17	12.31	35.17	100	354	P	H
	*	5745	98.81	-	-	86.5	35.17	12.31	35.17	100	354	A	H
		5603.8	51.46	-16.74	68.2	39.66	34.7	12.24	35.14	100	303	P	V
		5689.6	52.74	-44.79	97.53	40.76	34.86	12.28	35.16	100	303	P	V
		5707	56.5	-50.66	107.16	44.43	34.94	12.29	35.16	100	303	P	V
		5725	61.4	-60.8	122.2	49.21	35.05	12.3	35.16	100	303	P	V
	*	5745	101.82	-	-	89.51	35.17	12.31	35.17	100	303	P	V
	*	5745	93.51	-	-	81.2	35.17	12.31	35.17	100	303	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)
802.11ac VHT20 CH 157 5785MHz		5637.4	51.15	-17.05	68.2	39.34	34.7	12.26	35.15	100	357	P	H
		5682.4	51.72	-40.49	92.21	39.77	34.83	12.28	35.16	100	357	P	H
		5717.8	55.39	-54.79	110.18	43.25	35.01	12.29	35.16	100	357	P	H
		5723.6	55.75	-63.26	119.01	43.57	35.04	12.3	35.16	100	357	P	H
	*	5785	107.23	-	-	94.88	35.2	12.32	35.17	100	357	P	H
	*	5785	98.75	-	-	86.4	35.2	12.32	35.17	100	357	A	H
		5851.8	53.08	-65.02	118.1	40.65	35.2	12.41	35.18	100	357	P	H
		5856.2	53.42	-57.04	110.46	40.99	35.2	12.41	35.18	100	357	P	H
		5898.4	50.47	-37.38	87.85	37.99	35.2	12.47	35.19	100	357	P	H
		5935.6	50	-18.2	68.2	37.54	35.13	12.53	35.2	100	357	P	H
		5645.4	52.25	-15.95	68.2	40.44	34.7	12.26	35.15	100	298	P	V
		5678	51.74	-37.22	88.96	39.8	34.81	12.28	35.15	100	298	P	V
		5716.2	51.42	-58.32	109.74	39.29	35	12.29	35.16	100	298	P	V
		5720.6	52.74	-59.43	112.17	40.59	35.02	12.29	35.16	100	298	P	V
	*	5785	102.75	-	-	90.4	35.2	12.32	35.17	100	298	P	V
	*	5785	94.25	-	-	81.9	35.2	12.32	35.17	100	298	A	V
		5852.6	51.54	-64.73	116.27	39.11	35.2	12.41	35.18	100	298	P	V
		5863.6	50.05	-58.34	108.39	37.62	35.2	12.42	35.19	100	298	P	V
		5919.6	50.38	-21.8	72.18	37.92	35.16	12.5	35.2	100	298	P	V
		5928.2	51.1	-17.1	68.2	38.64	35.14	12.52	35.2	100	298	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)
802.11ac VHT20 CH 165 5825MHz	*	5825	107.5	-	-	95.11	35.2	12.37	35.18	100	357	P	H
	*	5825	98.98	-	-	86.59	35.2	12.37	35.18	100	357	A	H
		5854.6	58.29	-53.42	111.71	45.86	35.2	12.41	35.18	100	357	P	H
		5857	58.35	-51.89	110.24	45.92	35.2	12.41	35.18	100	357	P	H
		5887	53.16	-43.13	96.29	40.69	35.2	12.46	35.19	100	357	P	H
		5940.2	49.64	-18.56	68.2	37.19	35.12	12.53	35.2	100	357	P	H
	*	5825	101.81	-	-	89.42	35.2	12.37	35.18	106	298	P	V
	*	5825	93.44	-	-	81.05	35.2	12.37	35.18	106	298	A	V
		5854.4	54.1	-58.07	112.17	41.67	35.2	12.41	35.18	106	298	P	V
		5863.6	54.35	-54.04	108.39	41.92	35.2	12.42	35.19	106	298	P	V
		5877	51.65	-52.06	103.71	39.2	35.2	12.44	35.19	106	298	P	V
		5945.2	49.23	-18.97	68.2	36.78	35.11	12.54	35.2	106	298	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 149 5745MHz		11490	46.82	-27.18	74	46.27	38.11	19.32	56.88	-	-	P	H
		13336	49.96	-24.04	74	47.74	39.13	21.03	57.94	-	-	P	H
		13336	40.05	-13.95	54	37.83	39.13	21.03	57.94	-	-	A	H
		14499	50.41	-23.59	74	46.36	39.6	21.97	57.52	-	-	P	H
		14499	40.49	-13.51	54	36.44	39.6	21.97	57.52	-	-	A	H
		17235	52.9	-15.3	68.2	43.2	41.5	23.89	55.69	-	-	P	H
		17934	53.95	-20.05	74	43.13	41.43	24.47	55.08	-	-	P	H
		17934	44.03	-9.97	54	33.21	41.43	24.47	55.08	-	-	A	H
		11490	47.08	-26.92	74	46.53	38.11	19.32	56.88	-	-	P	V
		13391	50.36	-23.64	74	48.2	39.02	21.08	57.94	-	-	P	V
		13391	40.47	-13.53	54	38.31	39.02	21.08	57.94	-	-	A	V
		14499	49.69	-24.31	74	45.64	39.6	21.97	57.52	-	-	P	V
		14499	39.76	-14.24	54	35.71	39.6	21.97	57.52	-	-	A	V
		17235	52.03	-16.17	68.2	42.33	41.5	23.89	55.69	-	-	P	V
		17714	53.9	-20.1	74	43.28	41.51	24.29	55.18	-	-	P	V
		17714	43.91	-10.09	54	33.29	41.51	24.29	55.18	-	-	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)
802.11ac VHT20 CH 157 5785MHz		11570	49.21	-26.79	74	48.33	38.24	19.39	56.75	-	-	P	H
		13358	49.66	-24.34	74	47.47	39.08	21.05	57.94	-	-	P	H
		13358	39.72	-14.28	54	37.53	39.08	21.05	57.94	-	-	A	H
		14499	49.98	-24.02	74	45.93	39.6	21.97	57.52	-	-	P	H
		14499	40.07	-13.93	54	36.02	39.6	21.97	57.52	-	-	A	H
		17355	53.05	-15.15	68.2	43.12	41.44	23.99	55.5	-	-	P	H
		17912	53.85	-20.15	74	43.08	41.41	24.45	55.09	-	-	P	H
		17912	43.91	-10.09	54	33.14	41.41	24.45	55.09	-	-	A	H
		11570	47.58	-26.42	74	46.7	38.24	19.39	56.75	-	-	P	V
		13358	50.34	-23.66	74	48.15	39.08	21.05	57.94	-	-	P	V
		13358	40.45	-13.55	54	38.26	39.08	21.05	57.94	-	-	A	V
		14499	50.36	-23.64	74	46.31	39.6	21.97	57.52	-	-	P	V
		14499	40.42	-13.58	54	36.37	39.6	21.97	57.52	-	-	A	V
		17355	53.35	-14.85	68.2	43.42	41.44	23.99	55.5	-	-	P	V
		17769	54.02	-19.98	74	43.28	41.57	24.33	55.16	-	-	P	V
		17769	44.13	-9.87	54	33.39	41.57	24.33	55.16	-	-	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)
802.11ac VHT20 CH 165 5825MHz		11650	47.63	-26.37	74	46.43	38.4	19.45	56.65	-	-	P	H
		13281	50.52	-23.48	74	48.33	39.14	20.98	57.93	-	-	P	H
		13281	40.56	-13.44	54	38.37	39.14	20.98	57.93	-	-	A	H
		14499	50.03	-23.97	74	45.98	39.6	21.97	57.52	-	-	P	H
		14499	40.09	-13.91	54	36.04	39.6	21.97	57.52	-	-	A	H
		17475	52.91	-15.29	68.2	42.82	41.33	24.08	55.32	-	-	P	H
		17912	53.8	-20.2	74	43.03	41.41	24.45	55.09	-	-	P	H
		17912	43.88	-10.12	54	33.11	41.41	24.45	55.09	-	-	A	H
		11650	47.77	-26.23	74	46.57	38.4	17.87	56.65	-	-	P	V
		13292	50.35	-23.65	74	48.11	39.18	20.99	57.93	-	-	P	V
		13292	40.39	-13.61	54	38.15	39.18	20.99	57.93	-	-	A	V
		14499	50.42	-23.58	74	46.37	39.6	21.97	57.52	-	-	P	V
		14499	40.47	-13.53	54	36.42	39.6	21.97	57.52	-	-	A	V
		17475	53.29	-14.91	68.2	43.2	41.33	24.08	55.32	-	-	P	V
		17956	53.48	-20.52	74	42.6	41.46	24.49	55.07	-	-	P	V
		17956	43.56	-10.44	54	32.68	41.46	24.49	55.07	-	-	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 802.11ac VHT40 (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)
802.11ac VHT40 CH 151 5755MHz		5649	52.3	-15.9	68.2	40.49	34.7	12.26	35.15	100	347	P	H
		5699.8	60.05	-45	105.05	48.03	34.9	12.28	35.16	100	347	P	H
		5717	70.94	-39.02	109.96	58.81	35	12.29	35.16	100	347	P	H
		5724.6	73.9	-47.39	121.29	61.71	35.05	12.3	35.16	100	347	P	H
	*	5755	106.03	-	-	93.69	35.2	12.31	35.17	100	347	P	H
	*	5755	98.05	-	-	85.71	35.2	12.31	35.17	100	347	A	H
		5853	48.98	-66.38	115.36	36.55	35.2	12.41	35.18	100	347	P	H
		5856.6	50.5	-59.85	110.35	38.07	35.2	12.41	35.18	100	347	P	H
		5913.2	50.28	-26.62	76.9	37.82	35.17	12.49	35.2	100	347	P	H
		5945	49.41	-18.79	68.2	36.96	35.11	12.54	35.2	100	347	P	H
		5642.6	51.59	-16.61	68.2	39.78	34.7	12.26	35.15	100	303	P	V
		5681.6	52.45	-39.17	91.62	40.5	34.83	12.28	35.16	100	303	P	V
		5719.4	65.96	-44.67	110.63	53.81	35.02	12.29	35.16	100	303	P	V
		5723.4	66.62	-51.93	118.55	54.44	35.04	12.3	35.16	100	303	P	V
	*	5755	99.93	-	-	87.59	35.2	12.31	35.17	100	303	P	V
	*	5755	92.51	-	-	80.17	35.2	12.31	35.17	100	303	A	V
		5854.2	48.01	-64.61	112.62	35.58	35.2	12.41	35.18	100	303	P	V
		5874	49.35	-56.13	105.48	36.9	35.2	12.44	35.19	100	303	P	V
		5879.4	49.7	-52.23	101.93	37.24	35.2	12.45	35.19	100	303	P	V
		5938.6	50.12	-18.08	68.2	37.67	35.12	12.53	35.2	100	303	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)
802.11ac VHT40 CH 159 5795MHz		5617.8	52.52	-15.68	68.2	40.71	34.7	12.25	35.14	100	346	P	H
		5689	52.3	-44.79	97.09	40.32	34.86	12.28	35.16	100	346	P	H
		5714.4	56.42	-52.81	109.23	44.3	34.99	12.29	35.16	100	346	P	H
		5720	56.13	-54.67	110.8	43.98	35.02	12.29	35.16	100	346	P	H
	*	5795	105.4	-	-	93.04	35.2	12.33	35.17	100	346	P	H
	*	5795	97.51	-	-	85.15	35.2	12.33	35.17	100	346	A	H
		5853	55.51	-59.85	115.36	43.08	35.2	12.41	35.18	100	346	P	H
		5857.2	57.26	-52.92	110.18	44.83	35.2	12.41	35.18	100	346	P	H
		5881.6	53.41	-46.89	100.3	40.95	35.2	12.45	35.19	100	346	P	H
		5934.6	49.96	-18.24	68.2	37.5	35.13	12.53	35.2	100	346	P	H
		5638.2	50.38	-17.82	68.2	38.57	34.7	12.26	35.15	100	300	P	V
		5658	51.54	-22.6	74.14	39.69	34.73	12.27	35.15	100	300	P	V
		5713.2	51.56	-57.34	108.9	39.45	34.98	12.29	35.16	100	300	P	V
		5721.4	52.42	-61.57	113.99	40.26	35.03	12.29	35.16	100	300	P	V
	*	5795	100.47	-	-	88.11	35.2	12.33	35.17	100	300	P	V
	*	5795	92.4	-	-	80.04	35.2	12.33	35.17	100	300	A	V
		5850	50.19	-72.01	122.2	37.77	35.2	12.4	35.18	100	300	P	V
		5862.8	51.5	-57.11	108.61	39.07	35.2	12.42	35.19	100	300	P	V
		5888.8	49.83	-45.13	94.96	37.36	35.2	12.46	35.19	100	300	P	V
		5939.2	49.53	-18.67	68.2	37.08	35.12	12.53	35.2	100	300	P	V
Remark		1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 159 5795MHz		11590	47.79	-26.21	74	46.83	38.28	19.41	56.73	-	-	P	H
		13325	50.21	-23.79	74	47.98	39.15	21.02	57.94	-	-	P	H
		13325	40.27	-13.73	54	38.04	39.15	21.02	57.94	-	-	A	H
		14499	49.88	-24.12	74	45.83	39.6	21.97	57.52	-	-	P	H
		14499	39.93	-14.07	54	35.88	39.6	21.97	57.52	-	-	A	H
		17385	53.29	-14.91	68.2	43.32	41.42	24.01	55.46	-	-	P	H
		17934	54.03	-19.97	74	43.21	41.43	24.47	55.08	-	-	P	H
		17934	44.09	-9.91	54	33.27	41.43	24.47	55.08	-	-	A	H
		11590	47.74	-26.26	74	46.78	38.28	19.41	56.73	-	-	P	V
		13399	50.03	-23.97	74	47.89	39	21.09	57.95	-	-	P	V
		13399	40.12	-13.88	54	37.98	39	21.09	57.95	-	-	A	V
		14499	50.03	-23.97	74	45.98	39.6	21.97	57.52	-	-	P	V
		14499	40.11	-13.89	54	36.06	39.6	21.97	57.52	-	-	A	V
		17385	53.03	-15.17	68.2	43.06	41.42	24.01	55.46	-	-	P	V
		17956	54.12	-19.88	74	43.24	41.46	24.49	55.07	-	-	P	V
		17956	44.18	-9.82	54	33.3	41.46	24.49	55.07	-	-	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 802.11ac VHT80 (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)
802.11ac VHT80 CH 155 5775MHz		5635	53.03	-15.17	68.2	41.22	34.7	12.26	35.15	104	347	P	H
		5695.6	67.22	-34.74	101.96	55.22	34.88	12.28	35.16	104	347	P	H
		5719	71.98	-38.54	110.52	59.84	35.01	12.29	35.16	104	347	P	H
		5723	71.36	-46.28	117.64	59.18	35.04	12.3	35.16	104	347	P	H
	*	5775	102.49	-	-	90.14	35.2	12.32	35.17	104	347	P	H
	*	5775	95.23	-	-	82.88	35.2	12.32	35.17	104	347	A	H
		5851.4	66.01	-53	119.01	53.59	35.2	12.4	35.18	104	347	P	H
		5859.2	64.36	-45.26	109.62	51.93	35.2	12.42	35.19	104	347	P	H
		5877.4	59.16	-44.26	103.42	46.71	35.2	12.44	35.19	104	347	P	H
		5934.6	49.94	-18.26	68.2	37.48	35.13	12.53	35.2	104	347	P	H
		5635.4	51.26	-16.94	68.2	39.45	34.7	12.26	35.15	100	304	P	V
		5697.8	59.63	-43.95	103.58	47.62	34.89	12.28	35.16	100	304	P	V
		5719.2	64.36	-46.22	110.58	52.21	35.02	12.29	35.16	100	304	P	V
		5722.2	64.71	-51.11	115.82	52.55	35.03	12.29	35.16	100	304	P	V
	*	5775	97.19	-	-	84.84	35.2	12.32	35.17	100	304	P	V
	*	5775	89.99	-	-	77.64	35.2	12.32	35.17	100	304	A	V
		5852.6	61.83	-54.44	116.27	49.4	35.2	12.41	35.18	100	304	P	V
		5856.4	60.75	-49.66	110.41	48.32	35.2	12.41	35.18	100	304	P	V
		5875	55.57	-49.63	105.2	43.12	35.2	12.44	35.19	100	304	P	V
		5926.2	49.77	-18.43	68.2	37.31	35.15	12.51	35.2	100	304	P	V
Remark		1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											

Emission above 18GHz

WIFI 802.11a (SHF @ 1m)

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		18336	37.67	-36.33	74	53.13	37.87	6.34	59.67	-	-	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)

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 LF		30.27	22.23	-17.77	40	27	24.37	0.97	30.11	-	-	P	H
		95.07	23.31	-20.19	43.5	36.47	15.27	1.55	29.98	-	-	P	H
		167.16	26.74	-16.76	43.5	38.65	15.85	2.1	29.86	-	-	P	H
		564.6	27.11	-18.89	46	27.03	25.92	3.91	29.75	-	-	P	H
		755.7	29.89	-16.11	46	27.01	27.7	4.59	29.41	-	-	P	H
		945.4	33.12	-12.88	46	26.69	29.92	5.17	28.66	-	-	P	H
		30	31.81	-8.19	40	36.38	24.57	0.97	30.11	-	-	P	V
		52.41	24.52	-15.48	40	40.27	13.2	1.08	30.03	-	-	P	V
		165.81	25.11	-18.39	43.5	36.95	15.93	2.09	29.86	-	-	P	V
		781.6	30.23	-15.77	46	27.07	27.79	4.69	29.32	-	-	P	V
		841.8	32.8	-13.2	46	28.54	28.48	4.87	29.09	-	-	P	V
		956.6	34.15	-11.85	46	26.95	30.63	5.2	28.63	-	-	P	V
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 and emission level has at least 6dB margin against limit or emission is noise floor only.												



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)

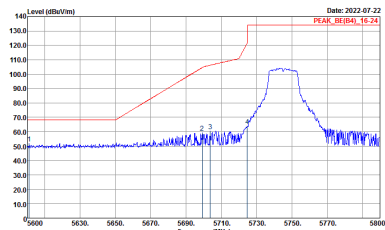
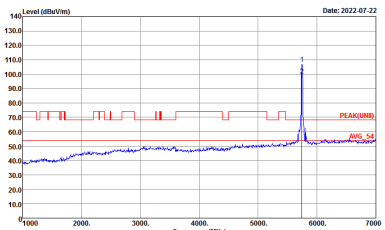
Both peak and average measured complies with the limit line, so test result is “PASS”.



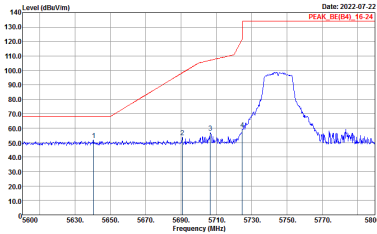
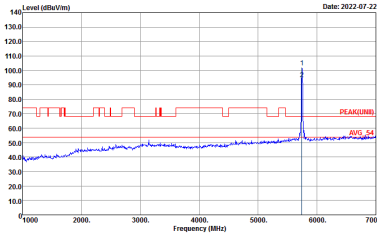
Appendix D. Radiated Spurious Emission Plots

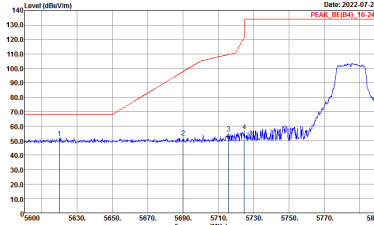
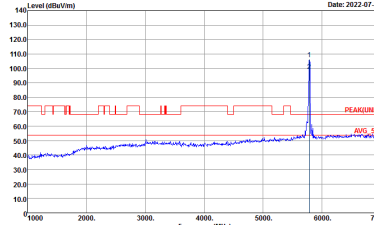
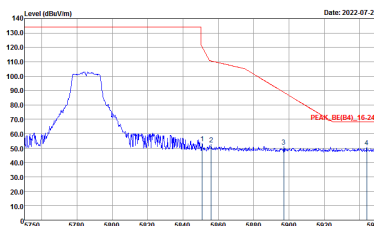
Test Engineer :	Jesse Wang, Stan Hsieh, Ken Wu and Howard Huang	Temperature :	22~28.1°C
		Relative Humidity :	53.3~67.5%

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

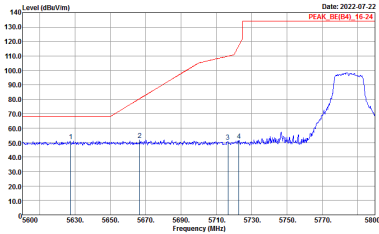
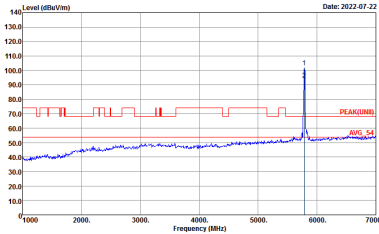
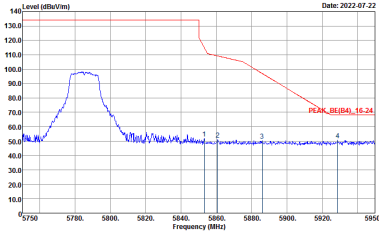
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto



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

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

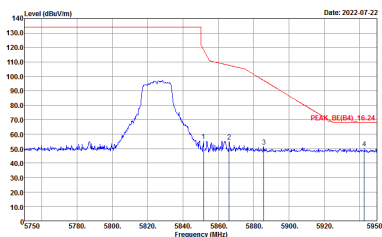
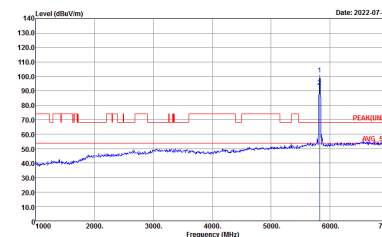


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz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



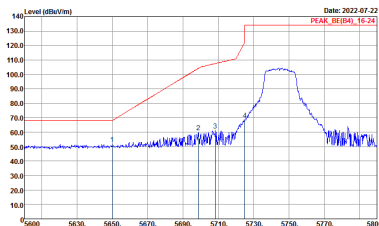
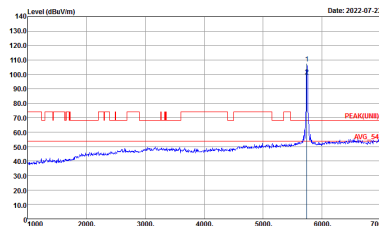
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH07-HY Condition : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto



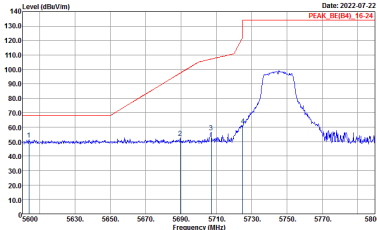
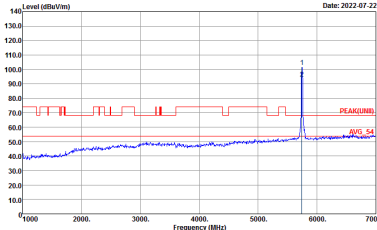
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BUR4_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_LINB 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto



Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH07-HY : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000KHz VBW:3000.000KHz SWTAuto	 Site Condition : 03CH07-HY : PEAK(LINII) 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000KHz VBW:3000.000KHz SWTAuto

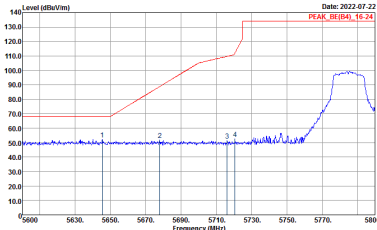
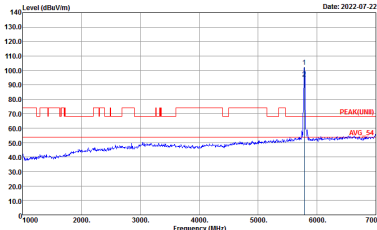
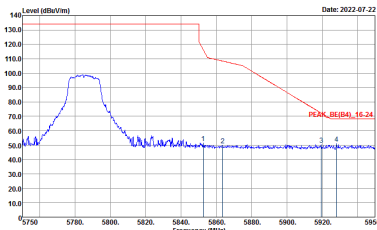


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_RE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(LNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

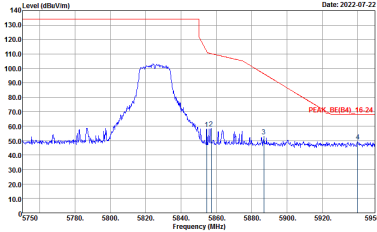
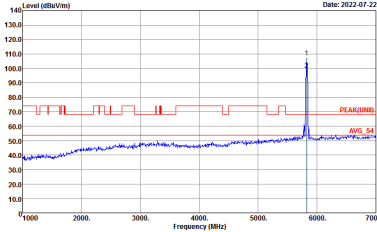


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

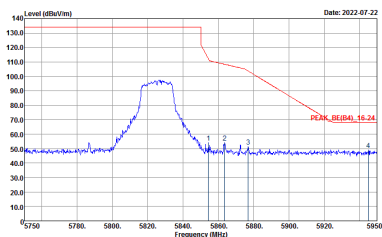
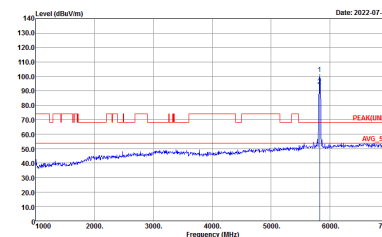


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



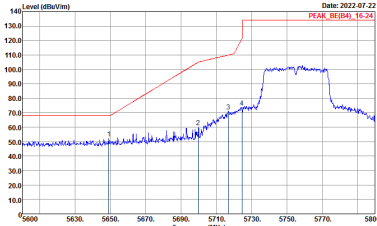
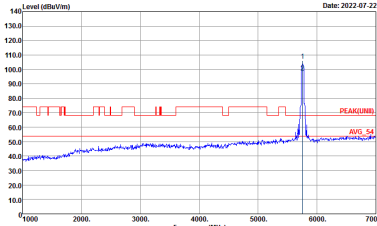
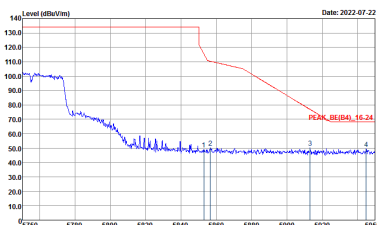
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto



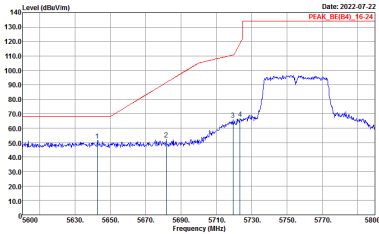
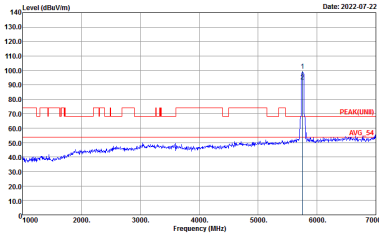
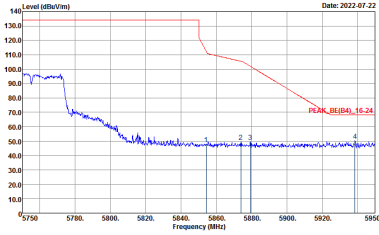
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak Avg.	 Site : 03CH07-HY Condition : : PEAK_BU(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK_LNB 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto



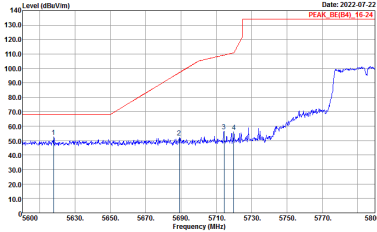
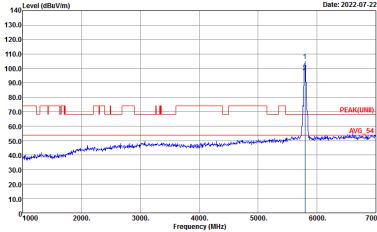
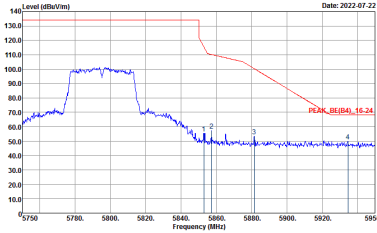
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(LINII)_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	Left blank

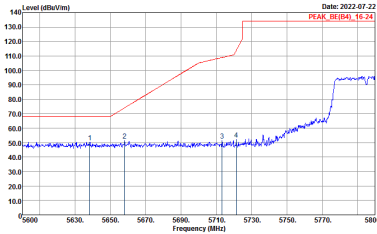
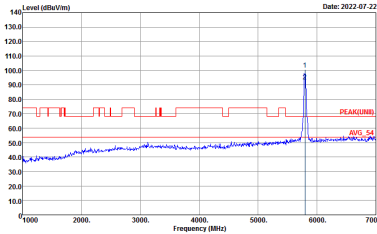
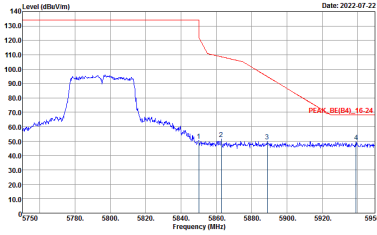


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



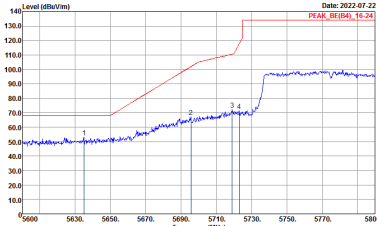
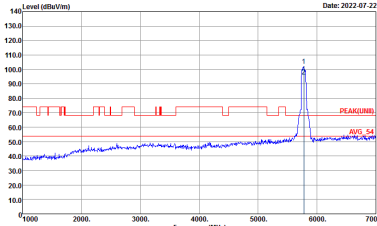
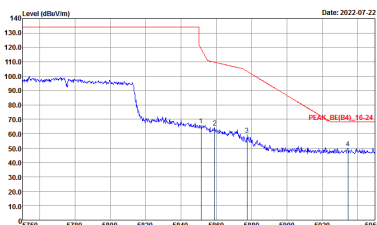
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_LNB(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

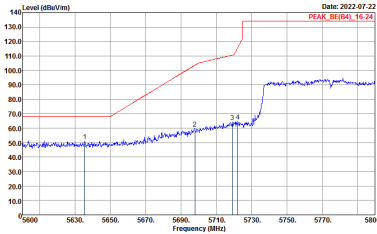
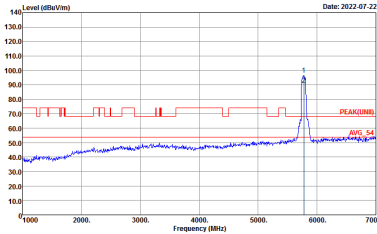
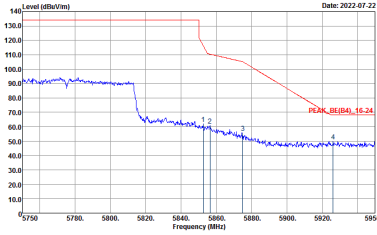


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



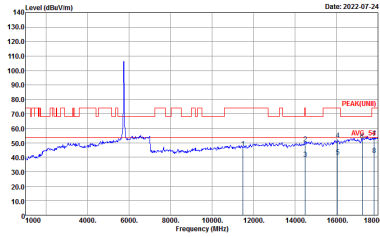
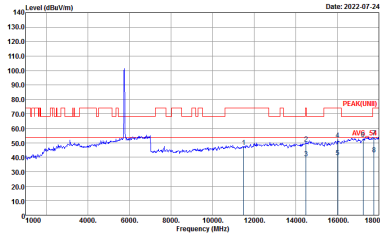
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(LINII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	Left blank

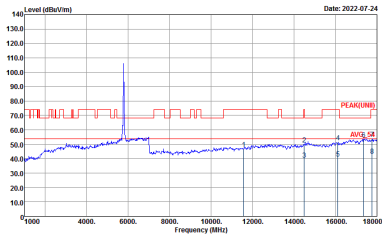
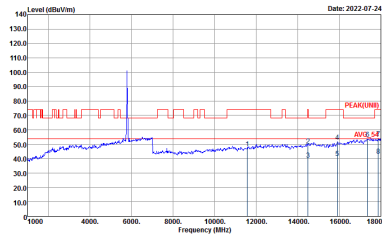
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(LIN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz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



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL



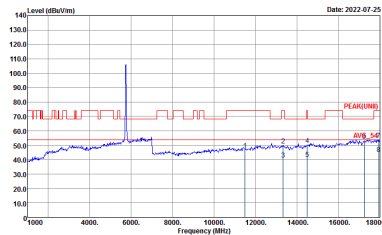
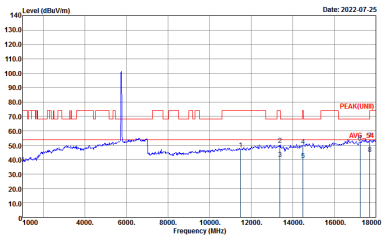
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-24 Frequency (MHz) Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL	Level (dBuV/m) Date: 2022-07-24 Frequency (MHz) Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL



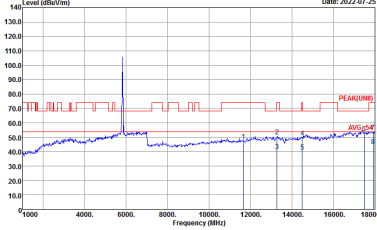
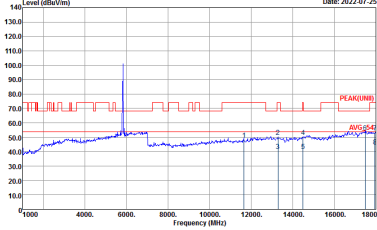
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4H Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-4H Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL



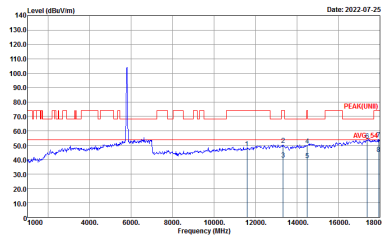
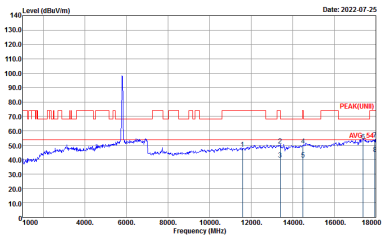
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-25 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL	Level (dBuV/m) Date: 2022-07-25 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL

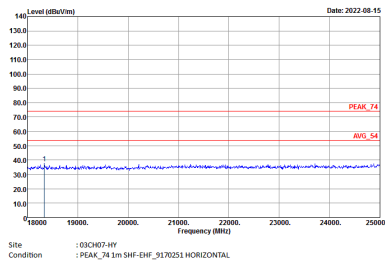
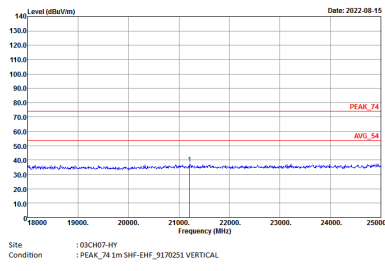


Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

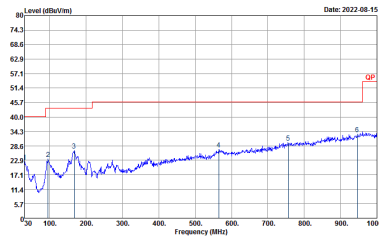
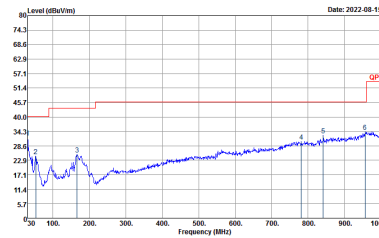
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4H Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-4H Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL



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

WIFI	5GHz WIFI	
ANT	802.11a SHF	
1	Horizontal	Vertical
Peak Avg.		

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

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-J5419(6) HORIZONTAL	 Site : 03CH07-HY Condition : QP 3m LF-ANT-J5419(6) VERTICAL



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	98.10	-	-	10Hz
1	5GHz 802.11ac VHT20	98.22	-	-	10Hz
1	5GHz 802.11ac VHT40	96.45	950	1.05	3kHz
1	5GHz 802.11ac VHT80	92.80	464	2.16	3kHz

