



FCC RADIO TEST REPORT

FCC ID : A4RGWKK3
Equipment : Phone
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Aug. 05, 2022 and testing was performed from Sep. 15, 2022 to Oct. 05, 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 of 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
FR280208-01F	01	Initial issue of report	Dec. 02, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(e)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum E.I.R.P Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	2.82 dB under the limit at 5929.250 MHz
3.5	15.207	AC Conducted Emission	Pass	17.01 dB under the limit at 1.456 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 this 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: William Chen

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
FCC ID	A4RGWKK3
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ NFC/GNSS/WPT Client WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
27211FQHN00170	RF Conducted Measurement
28251FQHN00017	Radiated Spurious Emission
28251FQHN00005	Conducted Emission

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard							
Tx/Rx Frequency Range	5850 MHz ~ 5895 MHz						
Maximum Output Power	MIMO <Ant. 4+3> 802.11a: 20.47 dBm / 0.1114 W 802.11n HT20: 20.63 dBm / 0.1156 W 802.11n HT40: 20.66 dBm / 0.1164 W 802.11ac VHT20: 20.73 dBm / 0.1183 W 802.11ac VHT40: 20.76 dBm / 0.1191 W 802.11ac VHT80: 18.46 dBm / 0.0701 W 802.11ax HE20: 20.83 dBm / 0.1211 W 802.11ax HE40: 20.86 dBm / 0.1219 W 802.11ax HE80: 18.56 dBm / 0.0718 W						
99% Occupied Bandwidth	MIMO <Ant. 4> 802.11a: 16.33 MHz 802.11ax HE20: 18.93 MHz 802.11ax HE40: 37.96 MHz 802.11ax HE80: 76.72 MHz MIMO <Ant. 3> 802.11a: 16.38 MHz 802.11ax HE20: 18.93 MHz 802.11ax HE40: 37.86 MHz 802.11ax HE80: 76.84 MHz						
Antenna Type / Gain	<Ant. 4> : ILA Antenna with gain 1.40 dBi <Ant. 3> : IFA Antenna with gain -0.40 dBi						
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)						
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 4</th> <th>Ant. 3</th> </tr> </thead> <tbody> <tr> <td>802.11a/n/ac/ax MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 4	Ant. 3	802.11a/n/ac/ax MIMO	V	V
	Ant. 4	Ant. 3					
802.11a/n/ac/ax MIMO	V	V					

Remark:

1. MIMO Ant. 4+3 Directional Gain is a calculated result from MIMO Ant. 4 and MIMO Ant. 3. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 4 + Ant. 3 is a calculated result from sum of the power MIMO Ant. 4 and MIMO Ant. 3.
3. The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.



1.2.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

$$Directional\ gain = 10 \cdot \log \left[\left(10^{G_1 / 20} + 10^{G_2 / 20} + \dots + 10^{G_N / 20} \right)^2 / N_{ANT} \right] \text{ dBi}$$

Where G_1, G_2, \dots, G_N denote single antenna gain.

The directional gain "DG" is calculated as following table.

UNII-4			DG	DG
			for	for
	Ant 4	Ant 3	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
	1.40	-0.40	1.40	3.56

Calculation example:

If a device has two antenna, $G_{ANT1} = 1.4\text{dBi}$; $G_{ANT2} = -0.4\text{dBi}$

Directional gain of power measurement = $\max(1.4, -0.4) + 0 = 1.4 \text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(1.4 \text{ dBi} / 20)} + 10^{(-0.4 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

$$= 3.56 \text{ dBi}$$

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)



1.3 Modification of EUT

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

1.4 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, 03CH16-HY

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

FCC designation No.: TW3786

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 291074 D02 EMC Measurement v01 (Draft)
- ♦ 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 accessory (Adapter or Earphone), 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	Bandwidth	Channel	Frequency (MHz)	Note
5850-5895 MHz (U-NII-4)	20 MHz	169	5845	Straddle
		173	5865	
		177	5885	
	40 MHz	167	5835	Straddle
		175	5875	
	80 MHz	171	5855	Straddle

Note: The channel noted with “straddle” spans 5.725-5.850 GHz and 5.850-5.895 GHz.



2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2018.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

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

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

Specification	MCS index /Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

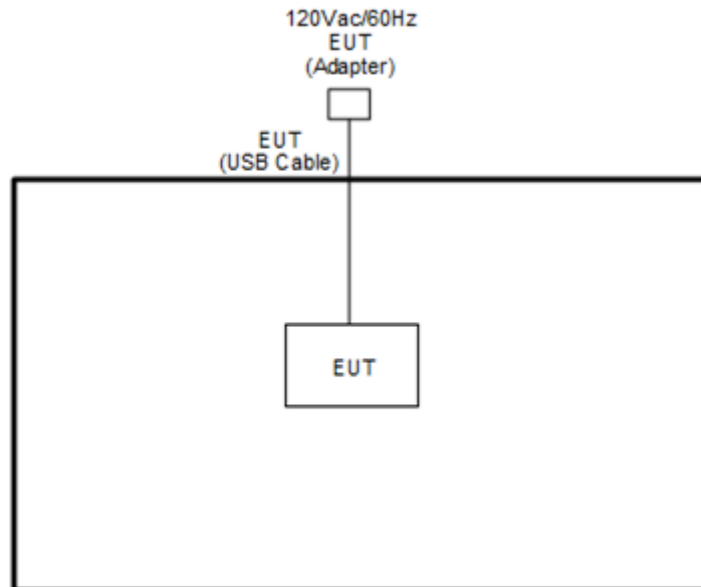
Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + USB Cable 2 (Charging from AC Adapter 1) Mode 2 : WCDMA Band II Idle + WLAN (5GHz) Idle + Bluetooth Link + USB Cable 2 (Charging from AC Adapter 1)
Remark: 1. The worst case of Conducted Emission is mode 2; only the test data of it was reported. 2. For Radiated Test Cases, the tests were performed with Adapter 1 and USB Cable 2. 3. During the preliminary test, both charging modes (Adapter mode and WPT Client mode) were verified. It is determined that the adaptor mode is the worst case for official test.	

Ch. #		RF test channel of UNII-4 and UNII-3 & 4 span channels			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	169	169	167	-
M	Middle	173	173	-	171
H	High	177	177	175	-

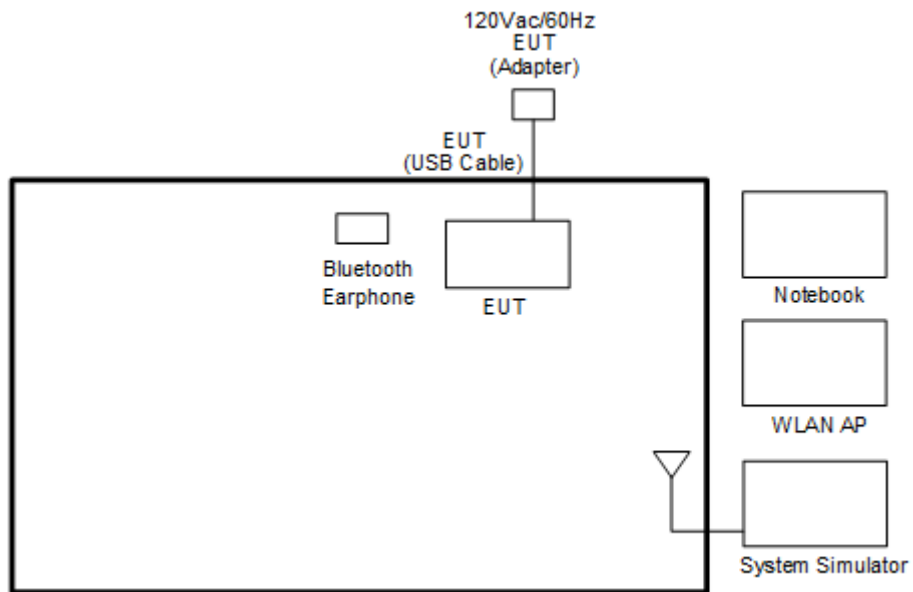
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

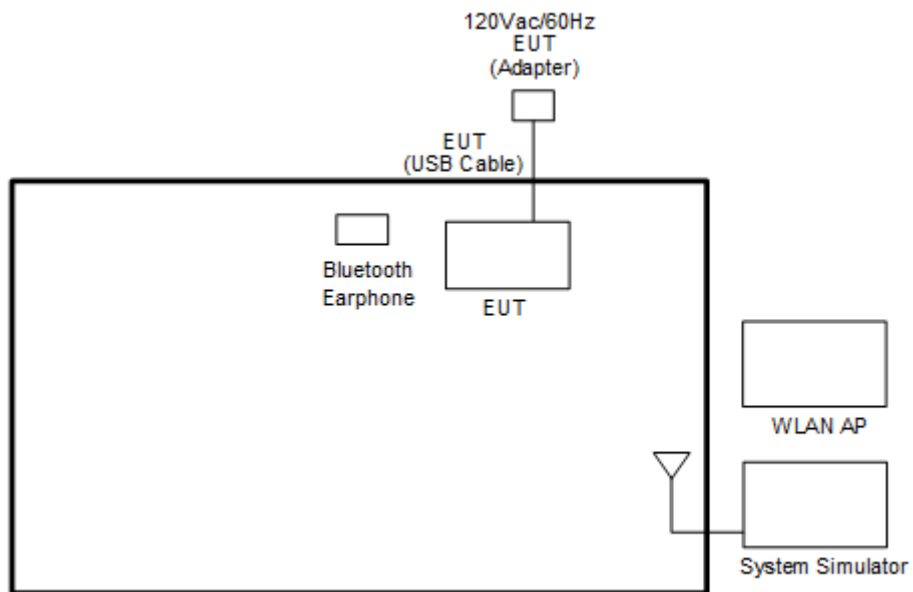
<WLAN Tx Mode>



<AC Conducted Emission for WLAN Link Mode>



<AC Conducted Emission for WLAN Idle Mode>





2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Kinyo	BTE-3622	N/A	N/A	N/A
3.	WLAN AP	D-Link	RT-AC52	N/A	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	P79G	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 “QRCT 4.0.00195.0” 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

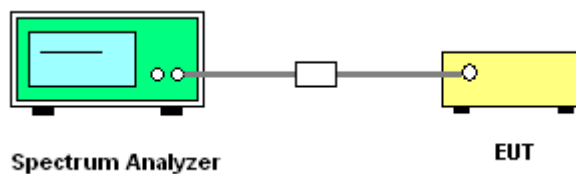
See list of measuring equipment of this test report.

3.1.3 Test Procedures

The testing follows FCC KDB 291074 D02 EMC Measurement v01 (Draft) Section 2.11 Minimum Emission bandwidth

1. Set RBW = 100 kHz.
2. Set the VBW $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
6. Measure and record the results in the test report.

3.1.4 Test Setup



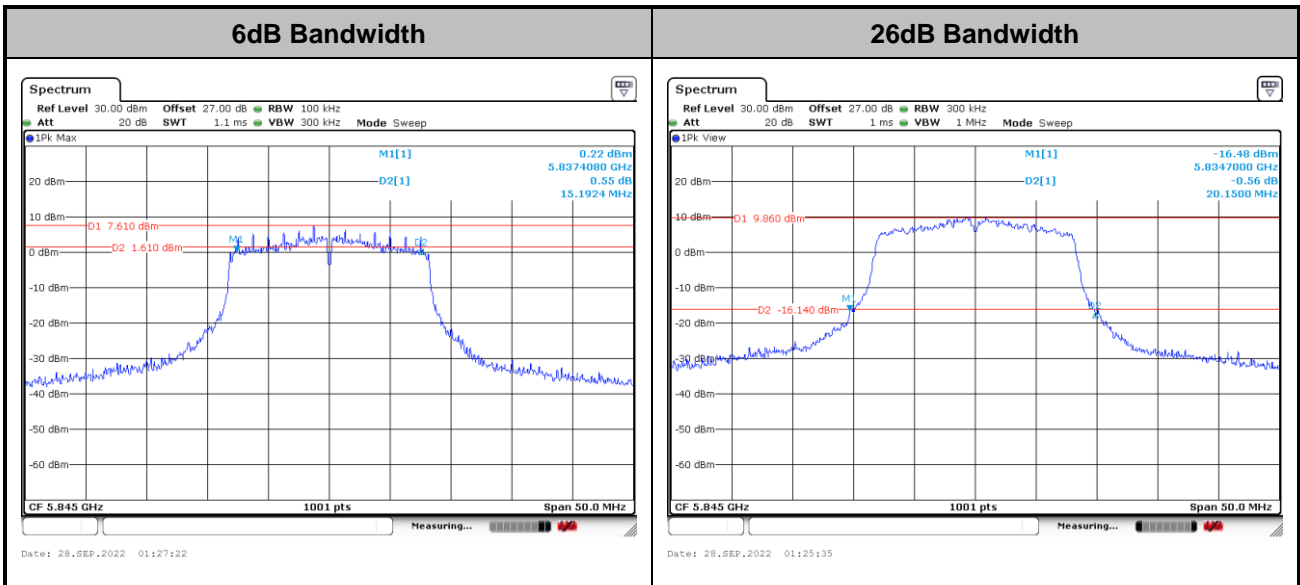
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

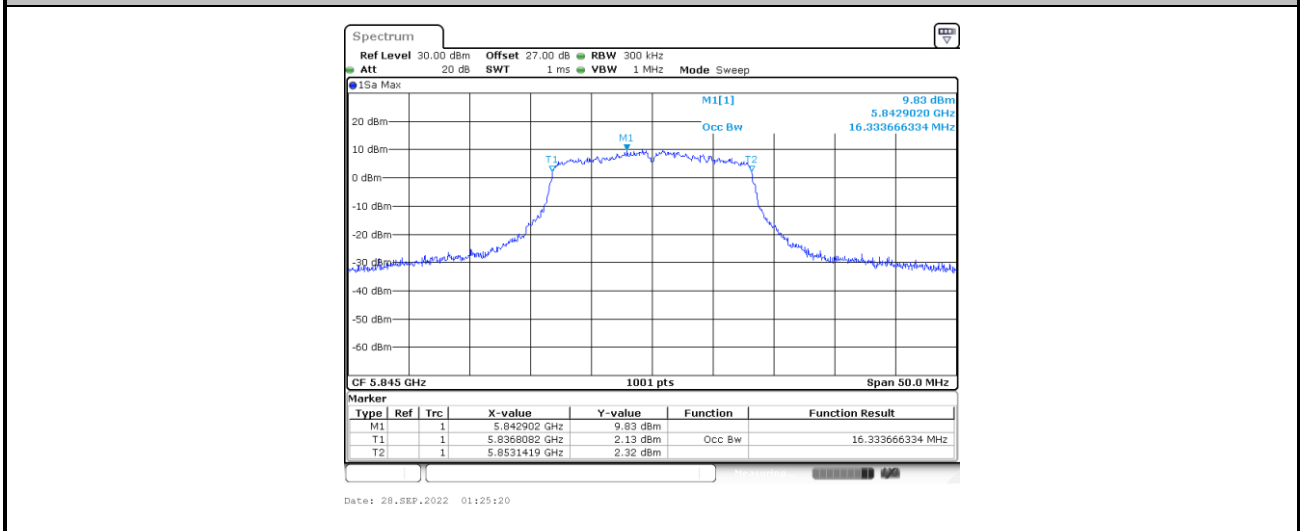


MIMO <Ant. 4+3>

<802.11a Mode>



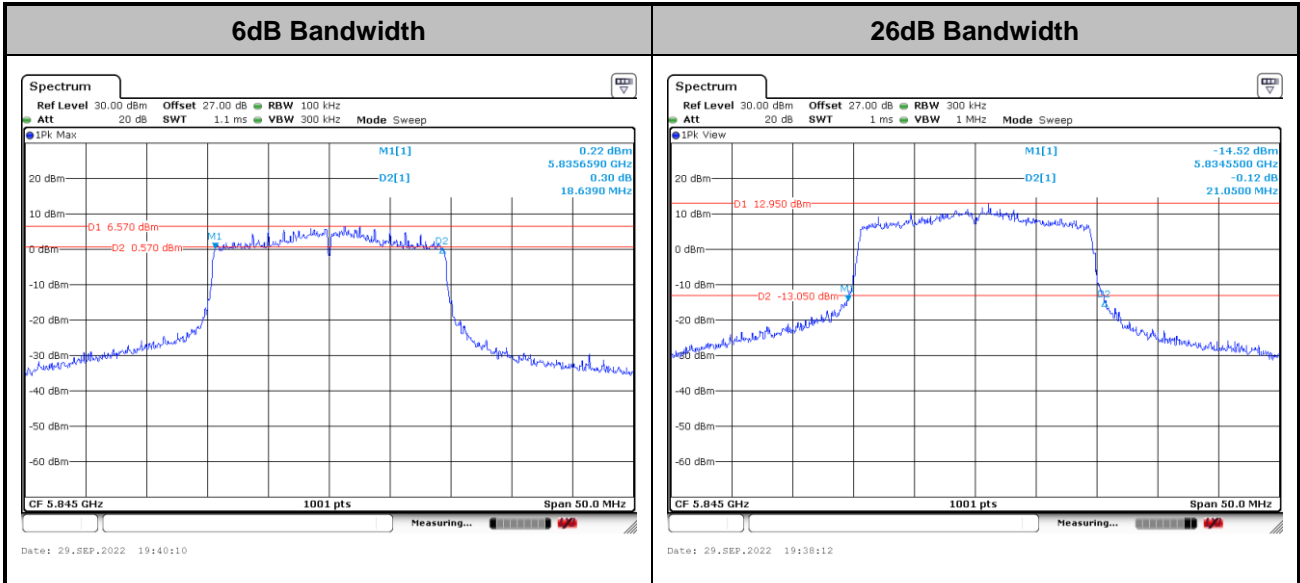
Occupied Bandwidth



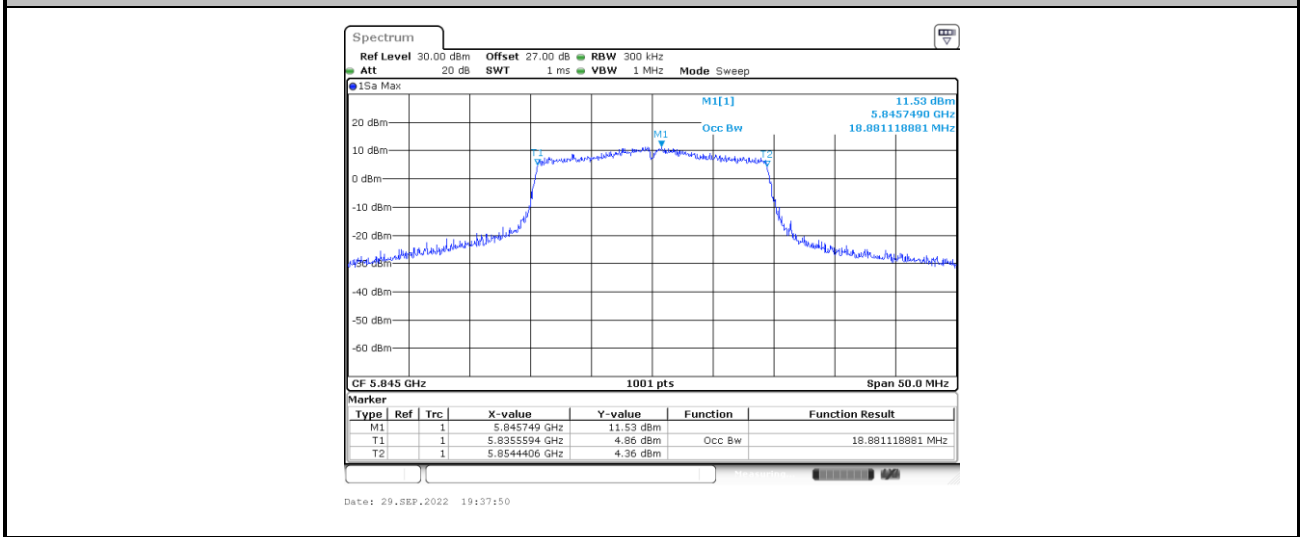
Note: The occupied channel bandwidth is maintained within the band of operation.



<802.11ax HE20 Mode>



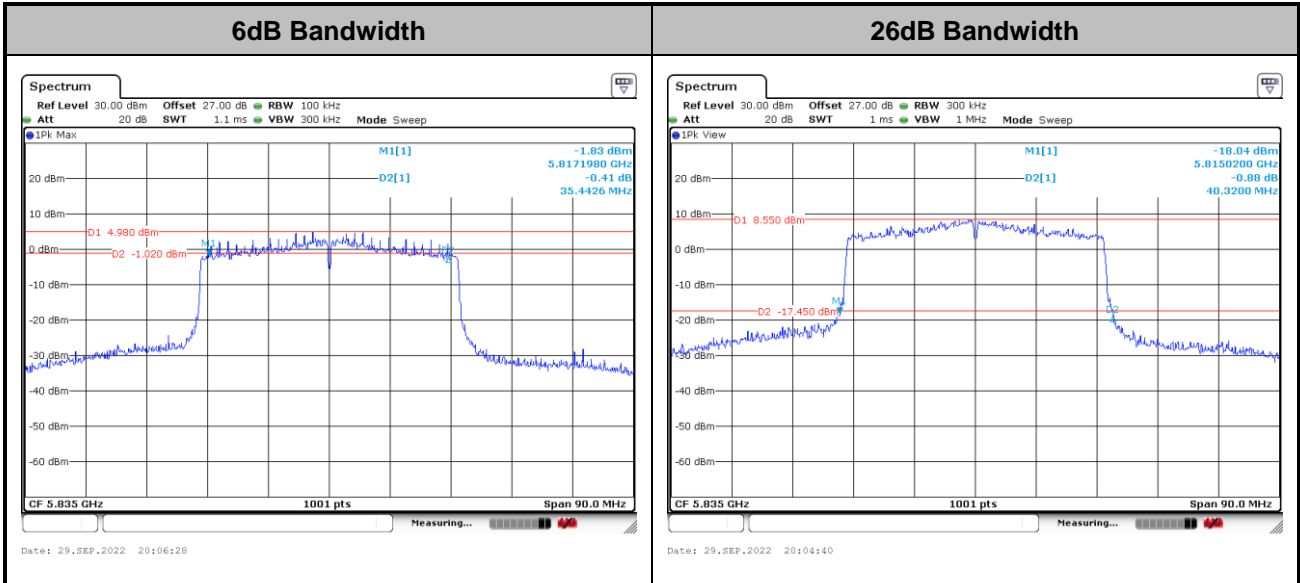
Occupied Bandwidth



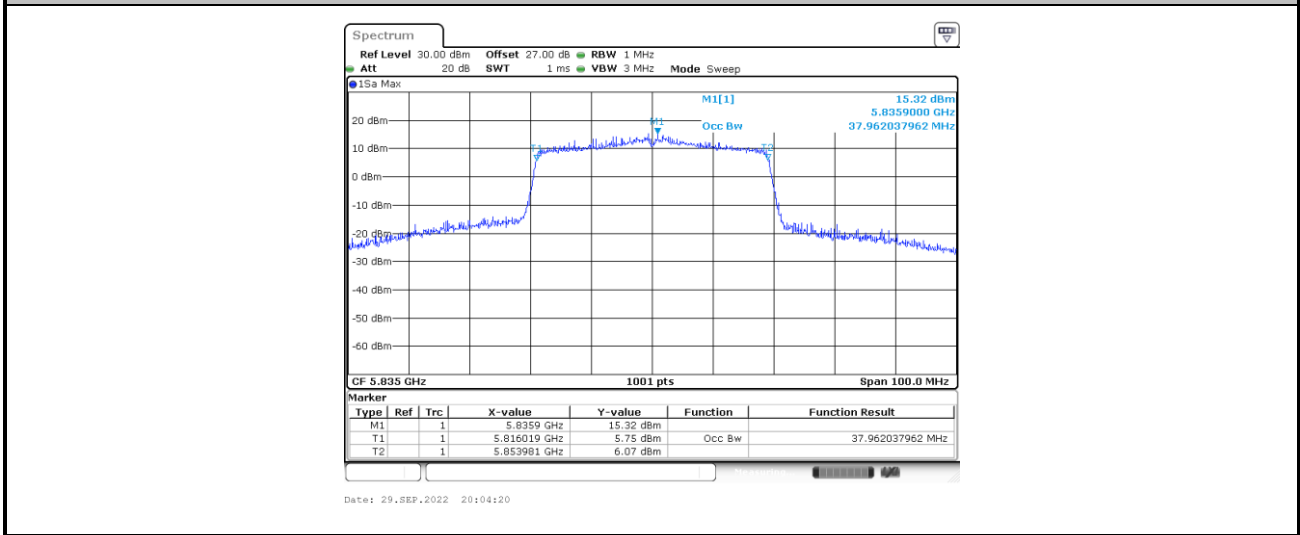
Note: The occupied channel bandwidth is maintained within the band of operation.



<802.11ax HE40 Mode>



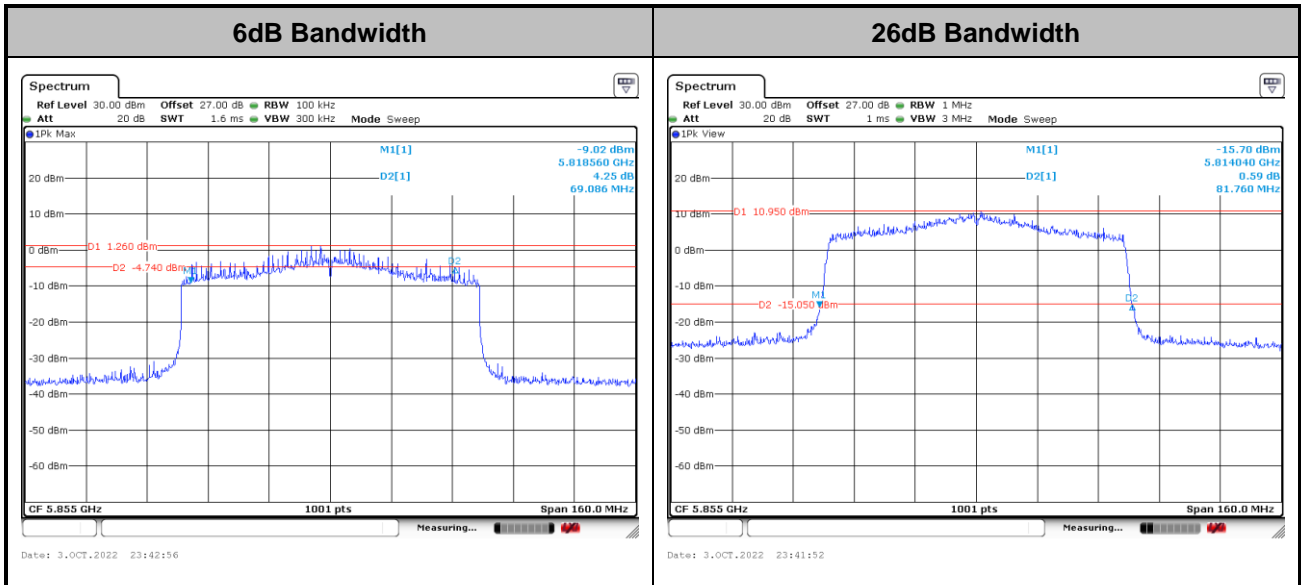
Occupied Bandwidth



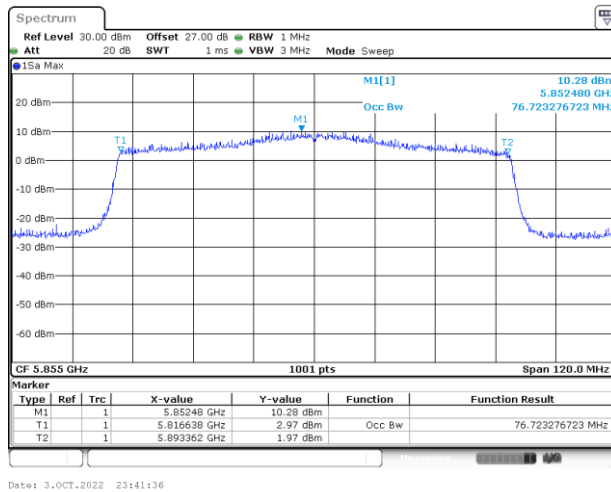
Note: The occupied channel bandwidth is maintained within the band of operation.



<802.11ax HE80 Mode>



Occupied Bandwidth



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

3.2 Maximum E.I.R.P Output Power Measurement

3.2.1 Limit of Maximum E.I.R.P Output Power

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

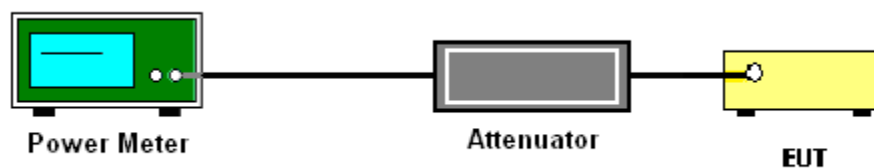
3.2.3 Test Procedures

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

1. For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band
2. For client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands shall meet both 15.407(a)(3)(i) 30dBm/500kHz and 15.407(a)(3)(iii) 14dBm/MHz limit, where the stringent limit 14dBm/MHz is applied.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

<For 802.11a Mode and 802.11ax Full RU Mode>

Method SA-1

(trace averaging with the EUT transmitting at full power throughout each sweep).

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW \geq 3 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.

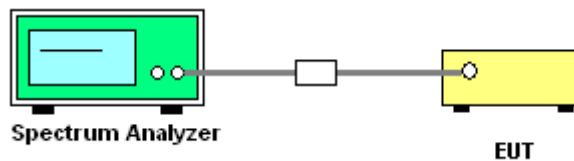
<For 802.11ax Partial RU Mode>**# Method SA-3 #**

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time \leq (number of points in sweep) \times T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT 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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

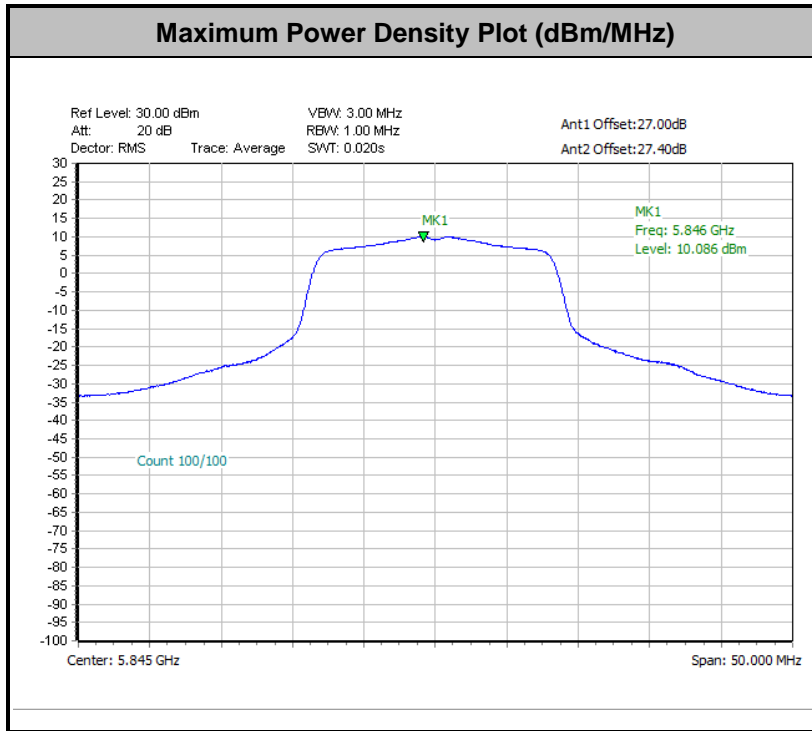
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup**3.3.5 Test Result of Power Spectral Density**

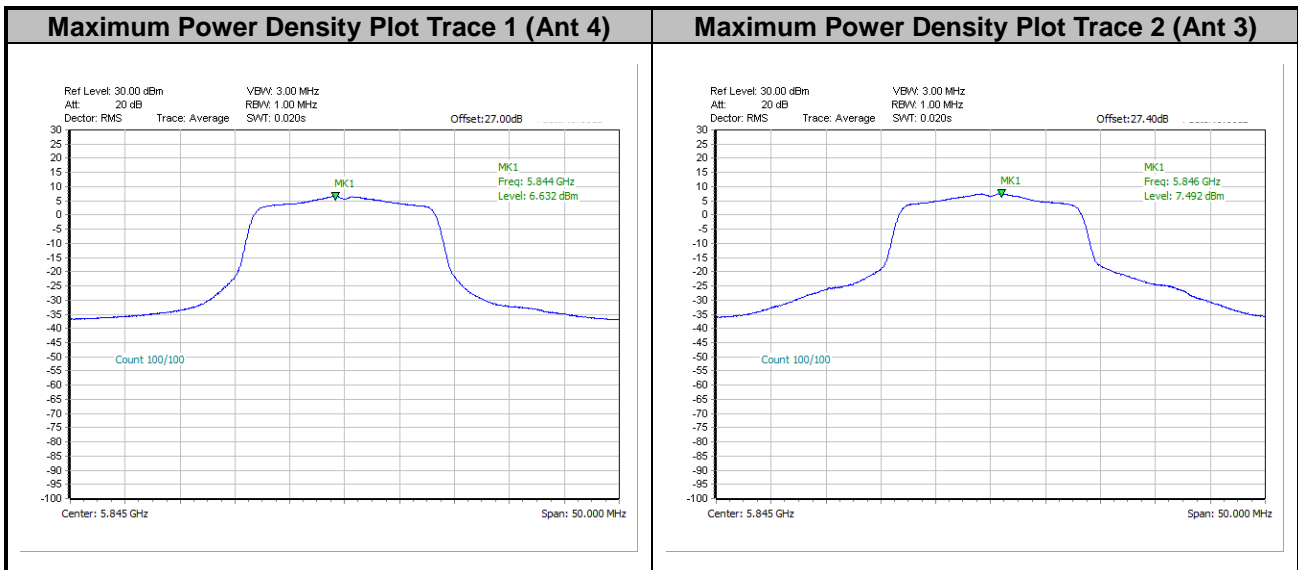
Please refer to Appendix A.



<802.11a Mode>

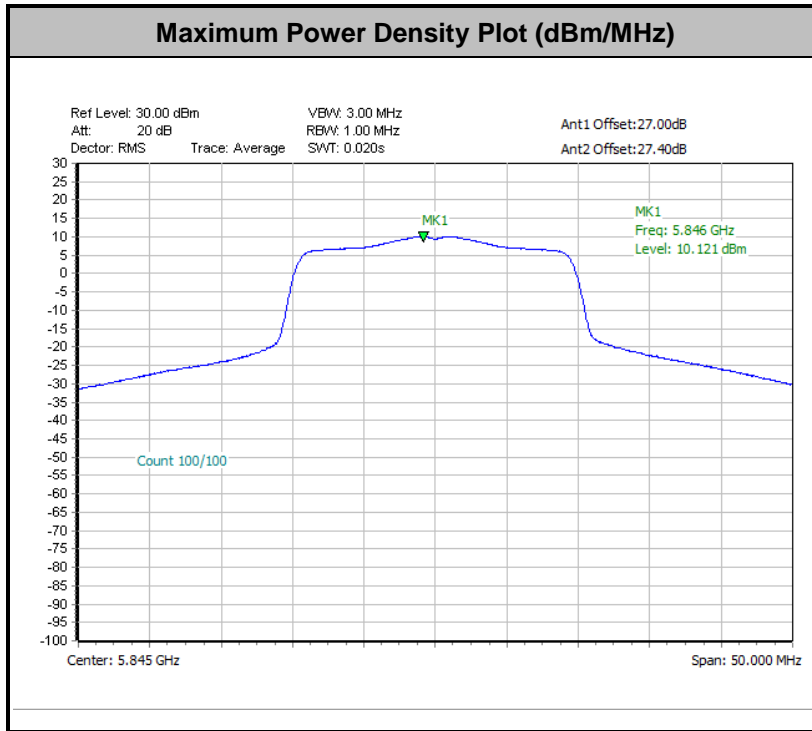


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

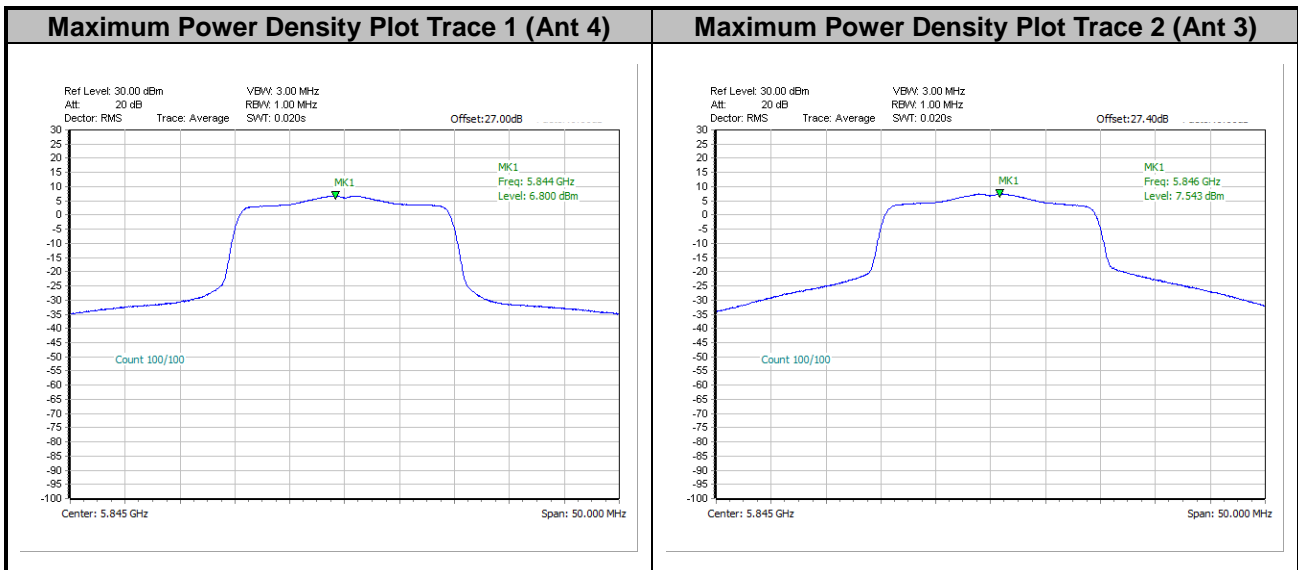




<802.11ax HE20 Mode>

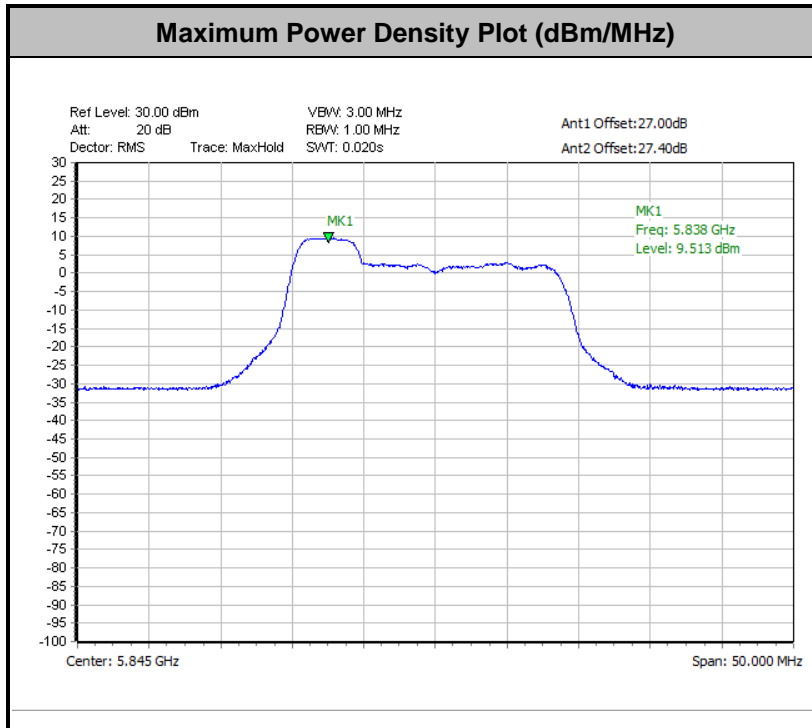


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

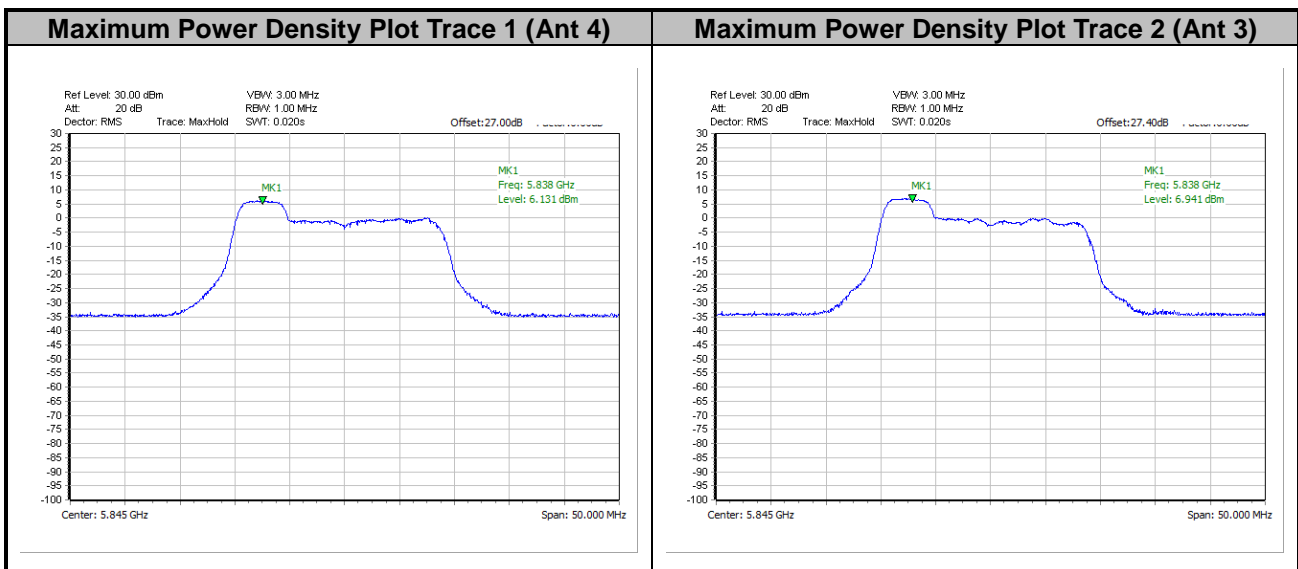




<802.11ax HE20 52RU Mode>

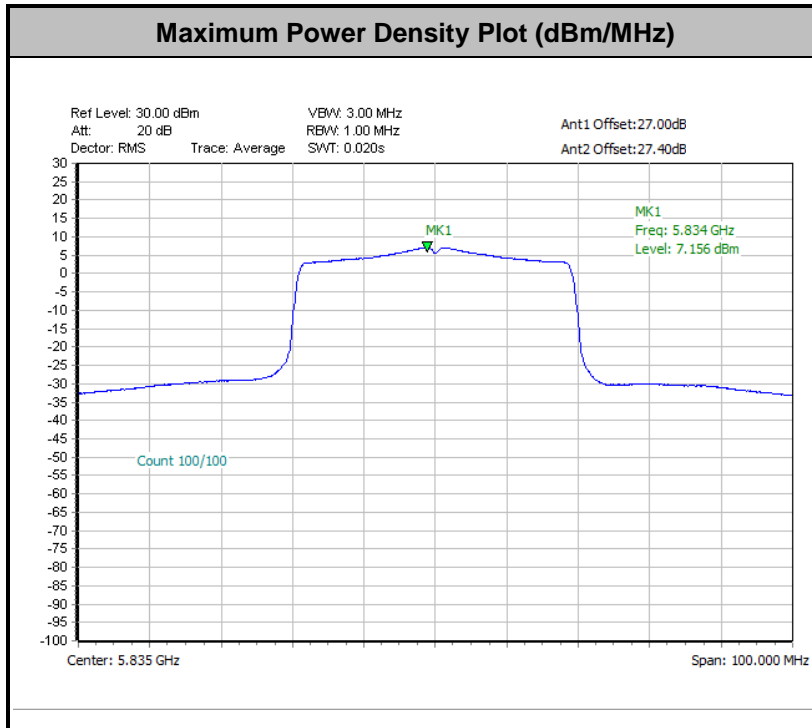


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

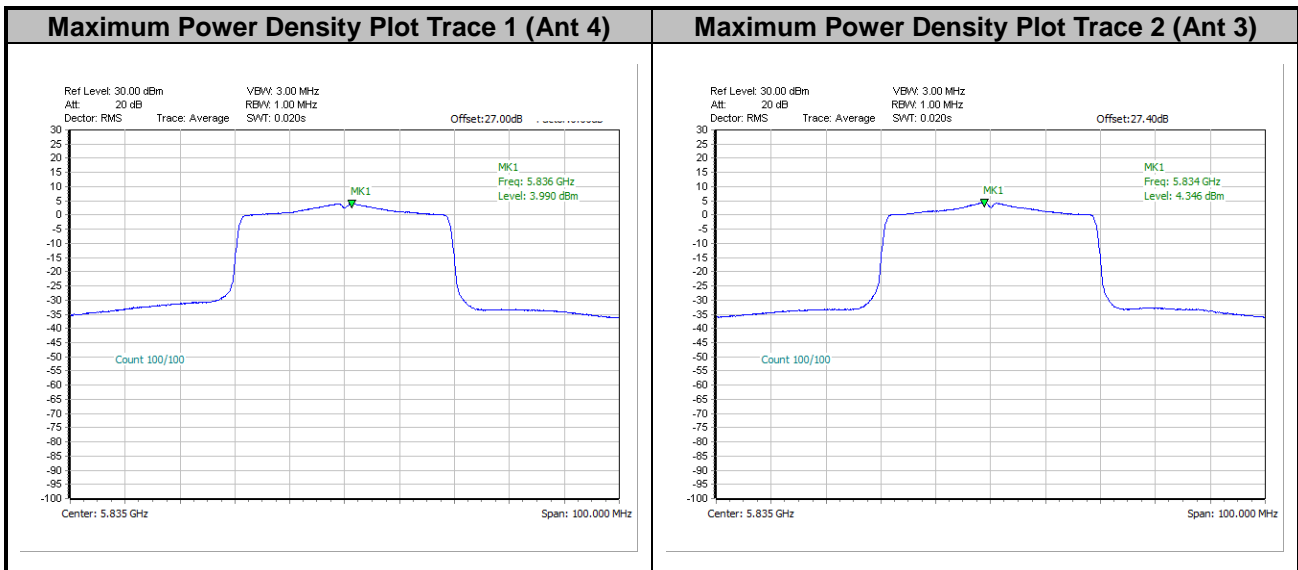




<802.11ax HE40 Mode>

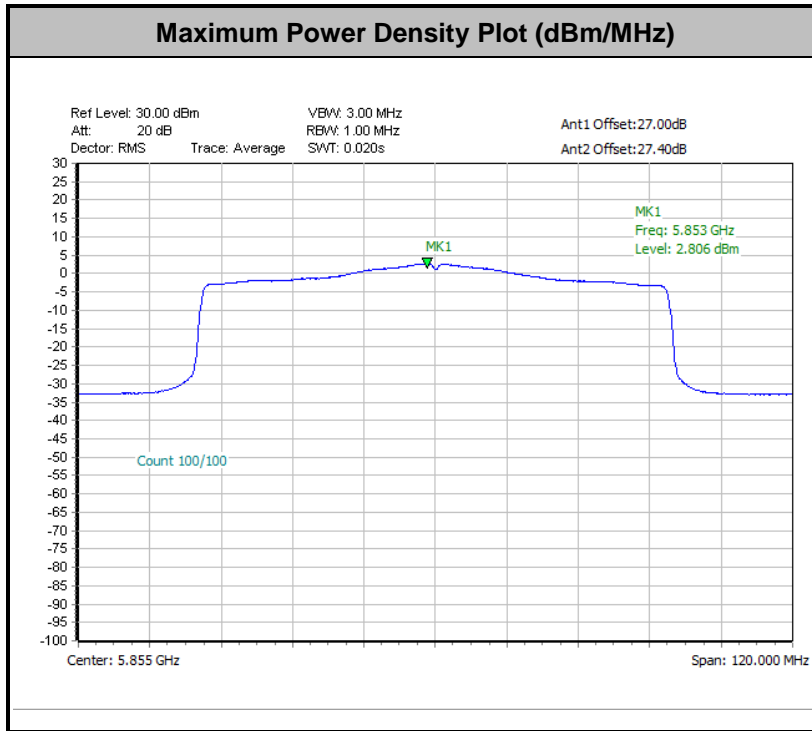


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

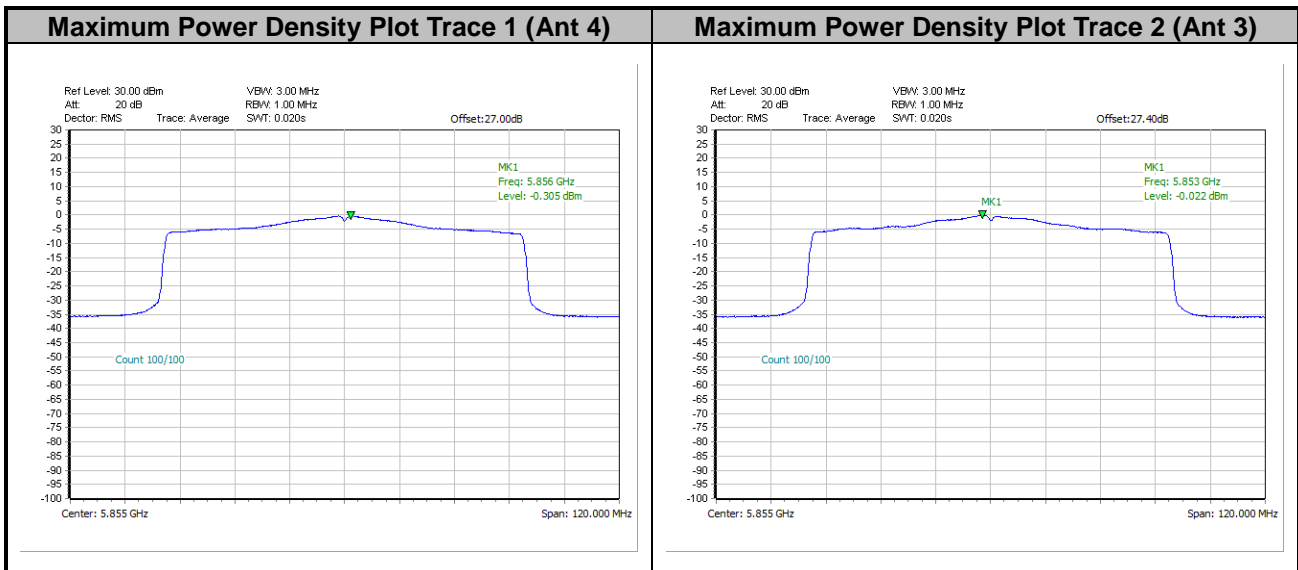




<802.11ax HE80 Mode>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.



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) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as the following 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.

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

- (2) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

15.407(b)(5)(i), all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

All emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

- (3) KDB789033 D02 v02r01 G)2)c)

Use guidance in KDB Publication 789033 for all measurements. Unwanted emissions outside of restricted bands are measured with an RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

Unwanted band-edge emissions may be measured using the integration method as described in KDB Publication 789033 3. d) (ii). Emissions below 5725 MHz should be measured using peak-detection while emission above 5895 MHz should be measured using average.



Frequency(GHz)	EIRP (dBm)	Field Strength @3m distance (dBuV/m)	Note
Below 5.65	-27dBm/MHz	68.2	Peak
5.7	10dBm/MHz	105.2	Peak
5.72	15.6dBm/MHz	110.8	Peak
5.725	27dBm/MHz	122.2	Peak
5.895	-5dBm/MHz	90.2	Average
5.895	15dBm/MHz	110.2	Peak
Above 5.925	-27dBm/MHz	68.2	Average
Above 5.925	-7dBm/MHz	88.2	Peak

Note: Field strength at 3 m distance is converted to EIRP as the following equation:
$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

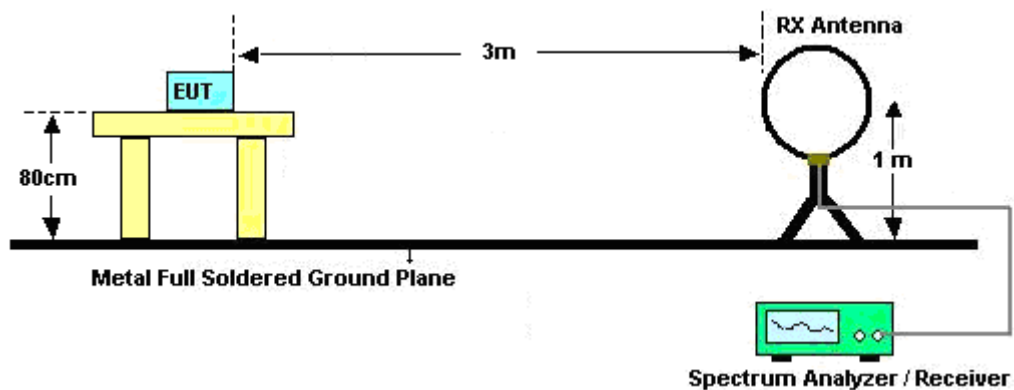
3.4.3 Test Procedures

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

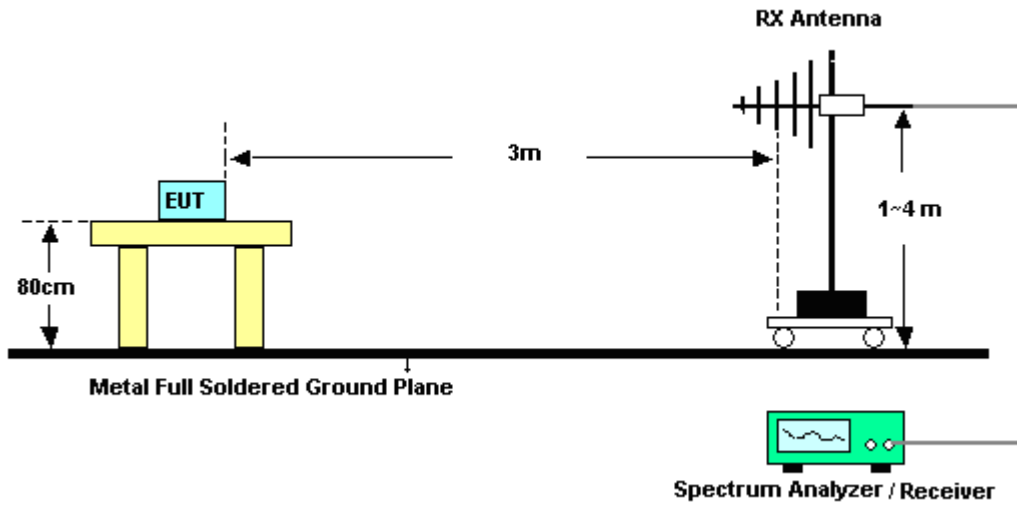
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was placed at distance 3 meter from measurement antenna which was mounted on the top of a variable height antenna tower.
4. The measurement antenna 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.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree 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 6dB margin against average limit line, the position is marked as “-“.

3.4.4 Test Setup

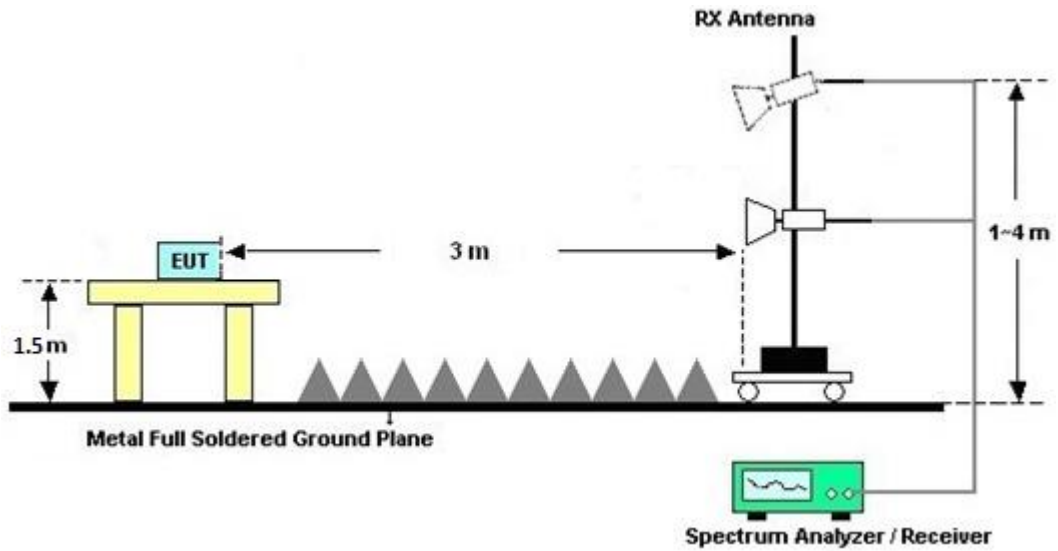
For radiated emissions below 30MHz



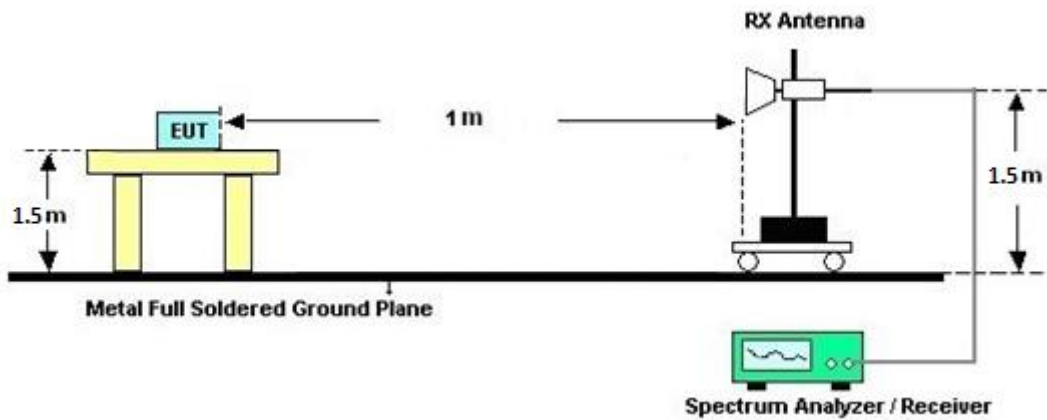
For radiated emissions from 30MHz to 1GHz



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

There is 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 (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

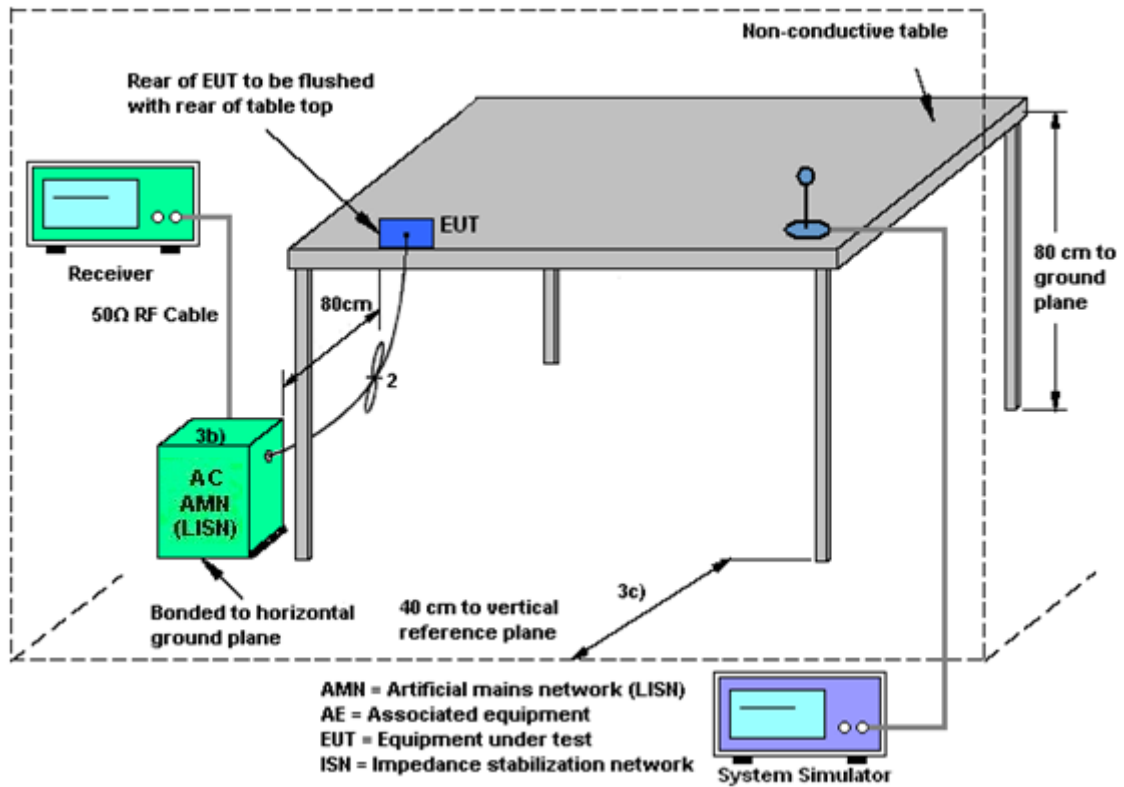
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	May 13, 2022	Sep. 15, 2022~ Oct. 05, 2022	May 12, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Sep. 15, 2022~ Oct. 05, 2022	Jun. 27, 2023	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 30, 2021	Sep. 15, 2022~ Oct. 05, 2022	Nov. 29, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz~18GHz	Mar. 10, 2022	Sep. 15, 2022~ Oct. 05, 2022	Mar. 09, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 09, 2021	Sep. 15, 2022~ Oct. 05, 2022	Oct. 08, 2022	Radiation (03CH16-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 15, 2022~ Oct. 05, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Sep. 15, 2022~ Oct. 05, 2022	N/A	Radiation (03CH16-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 15, 2022~ Oct. 05, 2022	N/A	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 15, 2021	Sep. 15, 2022~ Oct. 05, 2022	Dec. 14, 2022	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Sep. 15, 2022~ Oct. 05, 2022	N/A	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	805935/4	N/A	Aug. 09, 2022	Sep. 15, 2022~ Oct. 05, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	802434/4	N/A	Aug. 09, 2022	Sep. 15, 2022~ Oct. 05, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	N/A	Aug. 09, 2022	Sep. 15, 2022~ Oct. 05, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 04, 2022	Sep. 15, 2022~ Oct. 05, 2022	Jul. 03, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 27, 2021	Sep. 15, 2022~ Oct. 05, 2022	Dec. 26, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Sep. 15, 2022~ Oct. 05, 2022	Dec. 08, 2022	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Sep. 15, 2022~ Oct. 03, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Dec. 29, 2021	Sep. 15, 2022~ Oct. 03, 2022	Dec. 28, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz(amp)	Aug. 03, 2022	Sep. 15, 2022~ Oct. 03, 2022	Aug. 02, 2023	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Sep. 21, 2022	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 21, 2022	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 29, 2021	Sep. 21, 2022	Oct. 28, 2022	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 16, 2022	Sep. 21, 2022	Mar. 15, 2023	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 16, 2022	Sep. 21, 2022	Feb. 15, 2023	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 04, 2022	Sep. 21, 2022	Mar. 03, 2023	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2021	Sep. 21, 2022	Oct. 20, 2022	Conduction (CO07-HY)



5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
---	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
---	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

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

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2022/9/15~2022/10/3	Relative Humidity:	51~54	%

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

UNII-4 MIMO												
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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	169	5845	16.33	16.38	20.15	20.30	15.19	15.14	0.5	Pass
11a	6Mbps	2	173	5865	16.33	16.33	19.85	19.70	15.19	15.19	0.5	Pass
11a	6Mbps	2	177	5885	16.33	16.38	20.10	19.70	15.19	14.54	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
					Ant 4	Ant 3	SUM			
11a	6Mbps	2	169	5845	17.10	17.70	20.42	1.40	21.82	30
11a	6Mbps	2	173	5865	17.10	17.80	20.47	1.40	21.87	30
11a	6Mbps	2	177	5885	15.60	16.40	19.03	1.40	20.43	30
HT20	MCS0	2	169	5845	17.10	17.90	20.53	1.40	21.93	30
HT20	MCS0	2	173	5865	17.20	18.00	20.63	1.40	22.03	30
HT20	MCS0	2	177	5885	15.40	15.70	18.56	1.40	19.96	30
HT40	MCS0	2	167	5835	17.60	17.70	20.66	1.40	22.06	30
HT40	MCS0	2	175	5875	15.50	15.60	18.56	1.40	19.96	30
VHT20	MCS0	2	169	5845	17.20	18.00	20.63	1.40	22.03	30
VHT20	MCS0	2	173	5865	17.30	18.10	20.73	1.40	22.13	30
VHT20	MCS0	2	177	5885	15.50	15.80	18.66	1.40	20.06	30
VHT40	MCS0	2	167	5835	17.70	17.80	20.76	1.40	22.16	30
VHT40	MCS0	2	175	5875	15.60	15.70	18.66	1.40	20.06	30
VHT80	MCS0	2	171	5855	15.40	15.50	18.46	1.40	19.86	30

TEST RESULTS DATA
Power Spectral Density

UNII-4 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			DG (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass /Fail
					Ant 4	Ant 3	SUM				
11a	6Mbps	2	169	5845							Pass
11a	6Mbps	2	173	5865							Pass
11a	6Mbps	2	177	5885							Pass

Note: PSD Sum = Max PSD(Ant. 4, Ant. 3) + 10 log (n)

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

UNII-4 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	169	5845	Full	18.88	18.93	21.05	21.50	18.64	18.14	0.5	Pass
HE20	MCS0	2	173	5865	Full	18.93	18.88	21.35	21.00	16.74	15.19	0.5	Pass
HE20	MCS0	2	177	5885	Full	18.88	18.88	21.30	21.30	17.04	18.34	0.5	Pass
HE40	MCS0	2	167	5835	Full	37.96	37.86	40.32	39.78	35.44	35.26	0.5	Pass
HE40	MCS0	2	175	5875	Full	37.86	37.86	40.41	40.14	34.54	35.26	0.5	Pass
HE80	MCS0	2	171	5855	Full	76.72	76.84	81.76	82.24	69.09	70.37	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
						Ant 4	Ant 3	SUM			
HE20	MCS0	2	169	5845	Full	17.30	18.10	20.73	1.40	22.13	30
HE20	MCS0	2	169	5845	26/0	7.70	8.20	10.97	1.40	12.37	30
HE20	MCS0	2	169	5845	52/37	11.00	11.80	14.43	1.40	15.83	30
HE20	MCS0	2	169	5845	106/53	13.50	14.20	16.87	1.40	18.27	30
HE20	MCS0	2	173	5865	Full	17.40	18.20	20.83	1.40	22.23	30
HE20	MCS0	2	173	5865	26/4	8.90	8.30	11.62	1.40	13.02	30
HE20	MCS0	2	173	5865	52/38	10.70	11.30	14.02	1.40	15.42	30
HE20	MCS0	2	173	5865	106/53	12.60	13.30	15.97	1.40	17.37	30
HE20	MCS0	2	177	5885	Full	15.60	15.90	18.76	1.40	20.16	30
HE20	MCS0	2	177	5885	26/8	5.40	5.90	8.67	1.40	10.07	30
HE20	MCS0	2	177	5885	52/40	8.70	9.10	11.91	1.40	13.31	30
HE20	MCS0	2	177	5885	106/54	11.50	11.90	14.71	1.40	16.11	30
HE40	MCS0	2	167	5835	Full	17.80	17.90	20.86	1.40	22.26	30
HE40	MCS0	2	175	5875	Full	15.70	15.80	18.76	1.40	20.16	30
HE80	MCS0	2	171	5855	Full	15.50	15.60	18.56	1.40	19.96	30

TEST RESULTS DATA
Power Spectral Density

UNII-4 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			DG (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass /Fail
						Ant 4	Ant 3	SUM				
HE20	MCS0	2	169	5845	Full			10.12	3.56	13.68	14.00	Pass
HE20	MCS0	2	169	5845	26/0			9.06	3.56	12.61	14.00	Pass
HE20	MCS0	2	169	5845	52/37			9.51	3.56	13.07	14.00	Pass
HE20	MCS0	2	169	5845	106/53			9.07	3.56	12.62	14.00	Pass
HE20	MCS0	2	173	5865	Full			10.10	3.56	13.65	14.00	Pass
HE20	MCS0	2	173	5865	26/4			8.72	3.56	12.28	14.00	Pass
HE20	MCS0	2	173	5865	52/38			9.13	3.56	12.69	14.00	Pass
HE20	MCS0	2	173	5865	106/53			8.54	3.56	12.09	14.00	Pass
HE20	MCS0	2	177	5885	Full			7.84	3.56	11.40	14.00	Pass
HE20	MCS0	2	177	5885	26/8			6.73	3.56	10.29	14.00	Pass
HE20	MCS0	2	177	5885	52/40			7.11	3.56	10.67	14.00	Pass
HE20	MCS0	2	177	5885	106/54			6.69	3.56	10.25	14.00	Pass
HE40	MCS0	2	167	5835	Full			7.16	3.56	10.71	14.00	Pass
HE40	MCS0	2	175	5875	Full			5.07	3.56	8.62	14.00	Pass
HE80	MCS0	2	171	5855	Full			2.81	3.56	6.36	14.00	Pass

Note: PSD Sum = Max PSD(Ant. 4, Ant. 3) + 10 log (n)



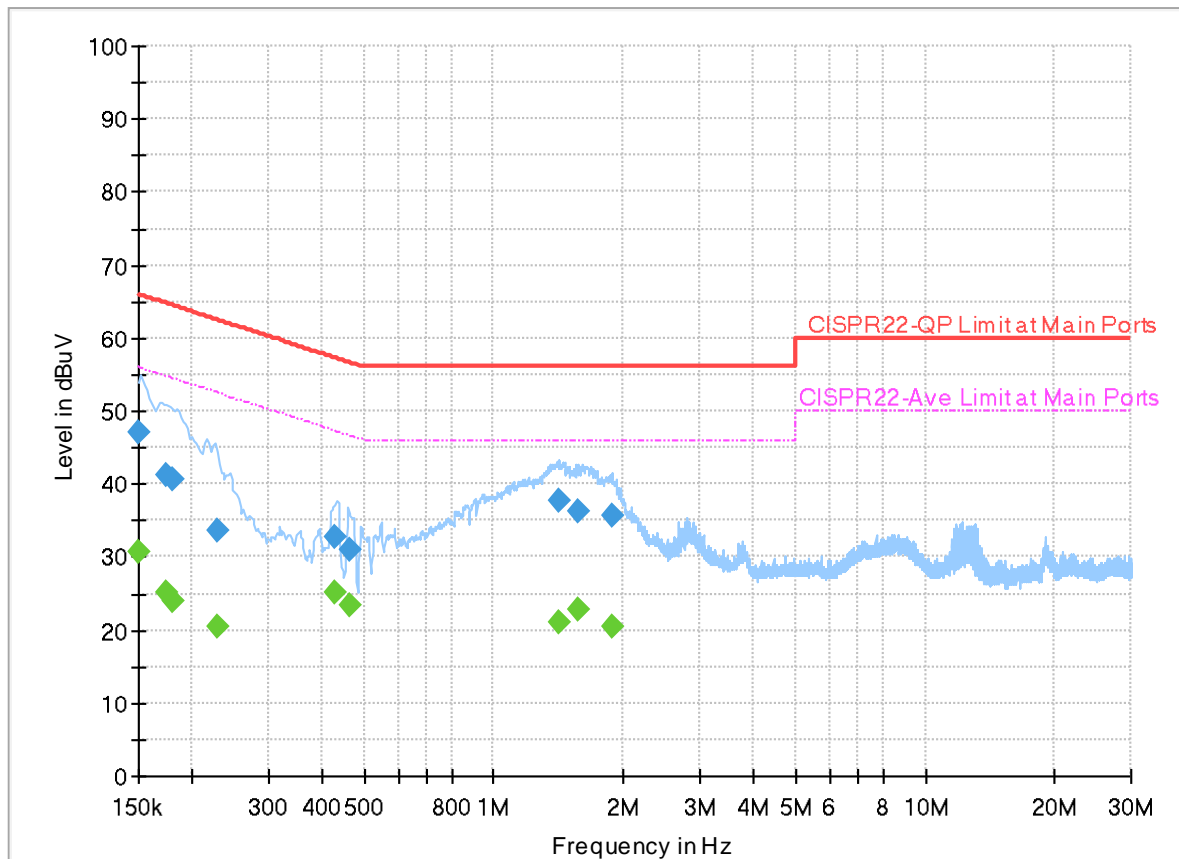
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	23.1~26.7°C
		Relative Humidity :	49.1~56.9%

EUT Information

Report NO : 280208-01
 Test Mode : Mode 2
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



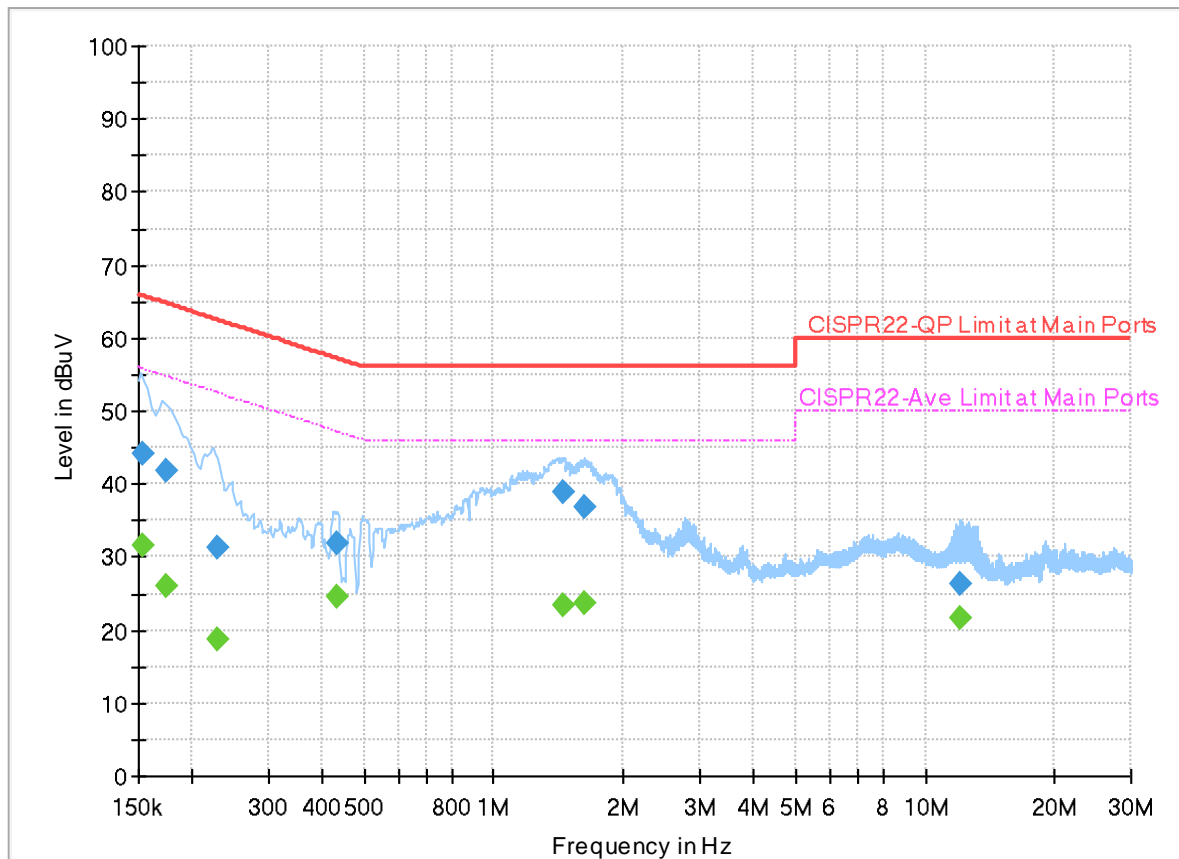
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150473	---	30.83	55.97	25.14	L1	OFF	20.0
0.150473	46.99	---	65.97	18.98	L1	OFF	20.0
0.174660	---	25.26	54.74	29.48	L1	OFF	20.0
0.174660	41.18	---	64.74	23.56	L1	OFF	20.0
0.179340	---	24.02	54.52	30.50	L1	OFF	20.0
0.179340	40.74	---	64.52	23.78	L1	OFF	20.0
0.228030	---	20.39	52.52	32.13	L1	OFF	20.0
0.228030	33.70	---	62.52	28.82	L1	OFF	20.0
0.427830	---	25.12	47.30	22.18	L1	OFF	20.0
0.427830	32.81	---	57.30	24.49	L1	OFF	20.0
0.465000	---	23.38	46.60	23.22	L1	OFF	20.0
0.465000	31.06	---	56.60	25.54	L1	OFF	20.0
1.420890	---	20.98	46.00	25.02	L1	OFF	20.0
1.420890	37.70	---	56.00	18.30	L1	OFF	20.0
1.570740	---	22.80	46.00	23.20	L1	OFF	20.0
1.570740	36.18	---	56.00	19.82	L1	OFF	20.0
1.882500	---	20.53	46.00	25.47	L1	OFF	20.0
1.882500	35.56	---	56.00	20.44	L1	OFF	20.0

EUT Information

Report NO : 280208-01
 Test Mode : Mode 2
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152633	---	31.48	55.86	24.38	N	OFF	20.0
0.152633	44.27	---	65.86	21.59	N	OFF	20.0
0.173130	---	26.08	54.81	28.73	N	OFF	20.0
0.173130	41.84	---	64.81	22.97	N	OFF	20.0
0.229560	---	18.84	52.47	33.63	N	OFF	20.0
0.229560	31.18	---	62.47	31.29	N	OFF	20.0
0.433230	---	24.42	47.19	22.77	N	OFF	20.0
0.433230	31.75	---	57.19	25.44	N	OFF	20.0
1.455540	---	23.41	46.00	22.59	N	OFF	20.0
1.455540	38.99	---	56.00	17.01	N	OFF	20.0
1.628250	---	23.62	46.00	22.38	N	OFF	20.0
1.628250	36.79	---	56.00	19.21	N	OFF	20.0
12.030270	---	21.57	50.00	28.43	N	OFF	20.2
12.030270	26.36	---	60.00	33.64	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Andy Yang, Karl Hou and Steven Wu	Temperature :	15~25°C
		Relative Humidity :	50~65%

UNII-4 - 5735~5895MHz

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.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 169 5845MHz		5634.515	52.78	-15.42	68.2	37.75	33.03	11.59	29.59	238	62	P	H
		5684.075	54.2	-39.25	93.45	38.87	33.27	11.66	29.6	238	62	P	H
		5705.02	54.38	-52.23	106.61	38.89	33.42	11.68	29.61	238	62	P	H
		5724.785	54.98	-66.73	121.71	39.38	33.5	11.71	29.61	238	62	P	H
	*	5845	113.71	-	-	97.43	34.08	11.83	29.63	238	62	P	H
	*	5845	105.83	-	-	89.55	34.08	11.83	29.63	238	62	A	H
		5897.25	72.62	-35.93	108.55	56.1	34.29	11.87	29.64	238	62	P	H
		5930.75	64.8	-23.4	88.2	48.25	34.3	11.9	29.65	238	62	P	H
		5896.25	56.42	-32.86	89.28	39.91	34.28	11.87	29.64	238	62	A	H
		5926.75	51.91	-16.29	68.2	35.36	34.3	11.9	29.65	238	62	A	H
		5602.95	52.65	-15.55	68.2	37.6	33.09	11.55	29.59	106	80	P	V
		5699.415	53.01	-51.76	104.77	37.55	33.4	11.67	29.61	106	80	P	V
		5714.165	53.1	-56.07	109.17	37.56	33.46	11.69	29.61	106	80	P	V
		5724.785	52.33	-69.38	121.71	36.73	33.5	11.71	29.61	106	80	P	V
	*	5845	112.03	-	-	95.75	34.08	11.83	29.63	106	80	P	V
	*	5845	104.54	-	-	88.26	34.08	11.83	29.63	106	80	A	V
		5895.75	64.34	-45.31	109.65	47.83	34.28	11.87	29.64	106	80	P	V
		5936.75	57.83	-30.37	88.2	41.28	34.3	11.9	29.65	106	80	P	V
	5895.5	51.57	-38.26	89.83	35.06	34.28	11.87	29.64	106	80	A	V	
	5926.5	47.68	-20.52	68.2	31.14	34.3	11.89	29.65	106	80	A	V	



WIFI Ant. 4+3	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)
		5617.11	53.41	-14.79	68.2	38.36	33.07	11.57	29.59	100	63	P	H
		5687.025	52.73	-42.9	95.63	37.37	33.3	11.66	29.6	100	63	P	H
		5706.2	53.18	-53.76	106.94	37.69	33.42	11.68	29.61	100	63	P	H
		5720.95	52.38	-60.59	112.97	36.81	33.48	11.7	29.61	100	63	P	H
	*	5865	114.68	-	-	98.31	34.16	11.85	29.64	100	63	P	H
	*	5865	106.91	-	-	90.54	34.16	11.85	29.64	100	63	A	H
		5897.25	72.79	-35.76	108.55	56.27	34.29	11.87	29.64	100	63	P	H
		5925.75	59.7	-28.5	88.2	43.16	34.3	11.89	29.65	100	63	P	H
		5896	60.9	-28.56	89.46	44.39	34.28	11.87	29.64	100	63	A	H
		5925.25	49.1	-19.1	68.2	32.56	34.3	11.89	29.65	100	63	A	H
													H
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802.11a													
CH 173													
5865MHz		5604.425	52.87	-15.33	68.2	37.81	33.09	11.56	29.59	100	86	P	V
		5656.345	53.05	-19.86	72.91	37.98	33.05	11.62	29.6	100	86	P	V
		5720.065	53.37	-57.58	110.95	37.8	33.48	11.7	29.61	100	86	P	V
		5720.065	53.37	-57.58	110.95	37.8	33.48	11.7	29.61	100	86	P	V
	*	5865	111.54	-	-	95.17	34.16	11.85	29.64	100	86	P	V
	*	5865	104.3	-	-	87.93	34.16	11.85	29.64	100	86	A	V
		5895.5	71.19	-38.64	109.83	54.68	34.28	11.87	29.64	100	86	P	V
		5943	56.72	-31.48	88.2	40.16	34.3	11.91	29.65	100	86	P	V
		5895.25	61.19	-28.83	90.02	44.68	34.28	11.87	29.64	100	86	A	V
		5925.75	47.41	-20.79	68.2	30.87	34.3	11.89	29.65	100	86	A	V
													V
													V



WIFI Ant. 4+3	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 177 5885MHz		5648.085	53.79	-14.41	68.2	38.78	33	11.61	29.6	233	59	P	H
		5665.195	54.13	-25.35	79.48	38.98	33.12	11.63	29.6	233	59	P	H
		5718.59	52.48	-57.93	110.41	36.92	33.47	11.7	29.61	233	59	P	H
		5723.9	52.46	-67.23	119.69	36.87	33.5	11.7	29.61	233	59	P	H
	*	5885	111.05	-	-	94.59	34.24	11.86	29.64	233	59	P	H
	*	5885	103.76	-	-	87.3	34.24	11.86	29.64	233	59	A	H
		5896	82.75	-26.71	109.46	66.24	34.28	11.87	29.64	233	59	P	H
		5928.25	58.11	-30.09	88.2	41.56	34.3	11.9	29.65	233	59	P	H
		5895	72.25	-17.95	90.2	55.74	34.28	11.87	29.64	233	59	A	H
		5925	47.23	-20.97	68.2	30.69	34.3	11.89	29.65	233	59	A	H
		5618.29	53.08	-15.12	68.2	38.04	33.06	11.57	29.59	100	85	P	V
		5667.555	52.75	-28.48	81.23	37.58	33.14	11.63	29.6	100	85	P	V
		5716.525	53.34	-56.49	109.83	37.78	33.47	11.7	29.61	100	85	P	V
		5724.195	52.01	-68.35	120.36	36.41	33.5	11.71	29.61	100	85	P	V
	*	5885	109.94	-	-	93.48	34.24	11.86	29.64	100	85	P	V
	*	5885	102.48	-	-	86.02	34.24	11.86	29.64	100	85	A	V
		5895.25	80.63	-29.39	110.02	64.12	34.28	11.87	29.64	100	85	P	V
		5931.25	55.68	-32.52	88.2	39.13	34.3	11.9	29.65	100	85	P	V
		5895	70.51	-19.69	90.2	54	34.28	11.87	29.64	100	85	A	V
		5927	44.84	-23.36	68.2	28.29	34.3	11.9	29.65	100	85	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-4 - 5735~5895MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 4+3	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 169 5845MHz		11690	47.14	-26.86	74	57.01	38.72	17.63	66.22	-	-	P	H
		17535	49.07	-19.13	68.2	53.89	39.21	21.79	65.82	-	-	P	H
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			11690	46.86	-27.14	74	56.73	38.72	17.63	66.22	-	-	P
		17535	48.69	-19.51	68.2	53.51	39.21	21.79	65.82	-	-	P	V
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WIFI Ant. 4+3	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 173 5865MHz		11730	47.02	-26.98	74	56.91	38.67	17.66	66.22	-	-	P	H
		17595	49.88	-18.32	68.2	54.21	39.57	21.82	65.72	-	-	P	H
													H
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													H
													H
			11730	47.94	-26.06	74	57.83	38.67	17.66	66.22	-	-	P
		17595	49.52	-18.68	68.2	53.85	39.57	21.82	65.72	-	-	P	V
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WIFI Ant. 4+3	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 177 5885MHz		11770	47.2	-26.8	74	57.09	38.63	17.69	66.21	-	-	P	H
		17655	50.66	-17.54	68.2	54.51	39.93	21.85	65.63	-	-	P	H
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													H
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			11770	46.64	-27.36	74	56.53	38.63	17.69	66.21	-	-	P
		17655	49.88	-18.32	68.2	53.73	39.93	21.85	65.63	-	-	P	V
													V
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Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 												



UNII-4 - 5735~5895MHz
WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI Ant. 4+3	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)
802.11ax HE20 CH 169 5845MHz		5623.895	53.54	-14.66	68.2	38.5	33.05	11.58	29.59	232	59	P	H
		5698.235	54	-49.9	103.9	38.55	33.39	11.67	29.61	232	59	P	H
		5720.065	58.07	-52.88	110.95	42.5	33.48	11.7	29.61	232	59	P	H
		5725.08	59.58	-74.62	134.2	43.98	33.5	11.71	29.61	232	59	P	H
	*	5845	113.92	-	-	97.64	34.08	11.83	29.63	232	59	P	H
	*	5845	105.81	-	-	89.53	34.08	11.83	29.63	232	59	A	H
		5895	73.46	-36.74	110.2	56.95	34.28	11.87	29.64	232	59	P	H
		5925	67.52	-20.68	88.2	50.98	34.3	11.89	29.65	232	59	P	H
		5895	62.58	-27.62	90.2	46.07	34.28	11.87	29.64	232	59	A	H
		5925	55.73	-12.47	68.2	39.19	34.3	11.89	29.65	232	59	A	H
		5624.19	53.68	-14.52	68.2	38.64	33.05	11.58	29.59	356	83	P	V
		5695.285	54.48	-47.24	101.72	39.06	33.36	11.67	29.61	356	83	P	V
		5706.495	55.91	-51.11	107.02	40.41	33.43	11.68	29.61	356	83	P	V
		5722.72	57.29	-59.71	117	41.71	33.49	11.7	29.61	356	83	P	V
	*	5845	110.86	-	-	94.58	34.08	11.83	29.63	356	83	P	V
	*	5845	103.05	-	-	86.77	34.08	11.83	29.63	356	83	A	V
		5896.75	70.84	-38.07	108.91	54.32	34.29	11.87	29.64	356	83	P	V
		5927	63.93	-24.27	88.2	47.38	34.3	11.9	29.65	356	83	P	V
		5895	59.39	-30.81	90.2	42.88	34.28	11.87	29.64	356	83	A	V
		5925	52.7	-15.5	68.2	36.16	34.3	11.89	29.65	356	83	A	V



WIFI Ant. 4+3	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)
		5641.3	52.82	-15.38	68.2	37.8	33.02	11.6	29.6	233	57	P	H
		5690.86	54.49	-43.97	98.46	39.1	33.33	11.66	29.6	233	57	P	H
		5716.23	55.36	-54.39	109.75	39.81	33.46	11.7	29.61	233	57	P	H
		5720.95	56.45	-56.52	112.97	40.88	33.48	11.7	29.61	233	57	P	H
	*	5865	113.64	-	-	97.27	34.16	11.85	29.64	233	57	P	H
	*	5865	105.06	-	-	88.69	34.16	11.85	29.64	233	57	A	H
		5900.5	78.15	-28.01	106.16	61.61	34.3	11.88	29.64	233	57	P	H
		5926	71.34	-16.86	88.2	54.8	34.3	11.89	29.65	233	57	P	H
		5895	68.02	-22.18	90.2	51.51	34.28	11.87	29.64	233	57	A	H
		5925	59.58	-8.62	68.2	43.04	34.3	11.89	29.65	233	57	A	H
802.11ax													H
HE20													H
CH 173		5605.015	52.52	-15.68	68.2	37.46	33.09	11.56	29.59	106	100	P	V
5865MHz		5682.01	54.1	-37.82	91.92	38.79	33.26	11.65	29.6	106	100	P	V
		5717.115	53.53	-56.46	109.99	37.97	33.47	11.7	29.61	106	100	P	V
		5723.9	52.67	-67.02	119.69	37.08	33.5	11.7	29.61	106	100	P	V
	*	5865	113.18	-	-	96.81	34.16	11.85	29.64	106	100	P	V
	*	5865	104.1	-	-	87.73	34.16	11.85	29.64	106	100	A	V
		5895	74.62	-35.58	110.2	58.11	34.28	11.87	29.64	106	100	P	V
		5926.75	65.91	-22.29	88.2	49.36	34.3	11.9	29.65	106	100	P	V
		5895.5	63.15	-26.68	89.83	46.64	34.28	11.87	29.64	106	100	A	V
		5925	53.52	-14.68	68.2	36.98	34.3	11.89	29.65	106	100	A	V
													V
													V



WIFI Ant. 4+3	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)
802.11ax HE20 CH 177 5885MHz		5635.695	53.52	-14.68	68.2	38.49	33.03	11.59	29.59	233	64	P	H
		5652.805	54.16	-16.12	70.28	39.12	33.02	11.62	29.6	233	64	P	H
		5716.23	54.17	-55.58	109.75	38.62	33.46	11.7	29.61	233	64	P	H
		5723.31	54.58	-63.77	118.35	39	33.49	11.7	29.61	233	64	P	H
	*	5885	111.92	-	-	95.46	34.24	11.86	29.64	233	64	P	H
	*	5885	102.62	-	-	86.16	34.24	11.86	29.64	233	64	A	H
		5895	92.23	-17.97	110.2	75.72	34.28	11.87	29.64	233	64	P	H
		5925.75	67.53	-20.67	88.2	50.99	34.3	11.89	29.65	233	64	P	H
		5895	73.96	-16.24	90.2	57.45	34.28	11.87	29.64	233	64	A	H
		5925	52.89	-15.31	68.2	36.35	34.3	11.89	29.65	233	64	A	H
		5629.205	52.74	-15.46	68.2	37.7	33.04	11.59	29.59	321	87	P	V
		5688.205	53.08	-43.42	96.5	37.71	33.31	11.66	29.6	321	87	P	V
		5714.755	52.62	-56.71	109.33	37.08	33.46	11.69	29.61	321	87	P	V
		5720.065	52.21	-58.74	110.95	36.64	33.48	11.7	29.61	321	87	P	V
	*	5885	108.97	-	-	92.51	34.24	11.86	29.64	321	87	P	V
	*	5885	99.2	-	-	82.74	34.24	11.86	29.64	321	87	A	V
		5895	90.17	-20.03	110.2	73.66	34.28	11.87	29.64	321	87	P	V
		5925.25	63.27	-24.93	88.2	46.73	34.3	11.89	29.65	321	87	P	V
		5895	71.43	-18.77	90.2	54.92	34.28	11.87	29.64	321	87	A	V
	5925	49.68	-18.52	68.2	33.14	34.3	11.89	29.65	321	87	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-4 - 5735~5895MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 4+3	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)	
802.11ax HE20 CH 169 5845MHz		11690	47.23	-26.77	74	57.1	38.72	17.63	66.22	-	-	P	H	
		17535	50	-18.2	68.2	54.82	39.21	21.79	65.82	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11690	47.22	-26.78	74	57.09	38.72	17.63	66.22	-	-	P	V
			17535	50.18	-18.02	68.2	55	39.21	21.79	65.82	-	-	P	V
														V
														V
														V
														V
													V	
													V	
													V	



WIFI Ant. 4+3	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)
802.11ax HE20 CH 173 5865MHz		11730	46.93	-27.07	74	56.82	38.67	17.66	66.22	-	-	P	H
		17595	50.06	-18.14	68.2	54.39	39.57	21.82	65.72	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
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													H
													H
													H
			11730	46.91	-27.09	74	56.8	38.67	17.66	66.22	-	-	P
		17595	49.42	-18.78	68.2	53.75	39.57	21.82	65.72	-	-	P	V
													V
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WIFI Ant. 4+3	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)	
802.11ax HE20 CH 177 5885MHz		11770	46.41	-27.59	74	56.3	38.63	16.91	66.21	-	-	P	H	
		17655	49.03	-19.17	68.2	52.88	39.93	21.12	65.63	-	-	P	H	
													H	
													H	
													H	
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													H	
													H	
													H	
	5885MHz		11770	46.97	-27.03	74	56.86	38.63	16.91	66.21	-	-	P	V
			17655	48.79	-19.41	68.2	52.64	39.93	21.12	65.63	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



UNII-4 - 5735~5895MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. 4+3	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)
		5622.125	53.77	-14.43	68.2	38.72	33.06	11.58	29.59	100	61	P	H
		5693.81	54.67	-45.97	100.64	39.25	33.35	11.67	29.6	100	61	P	H
		5711.215	55.75	-52.59	108.34	40.23	33.44	11.69	29.61	100	61	P	H
		5721.245	54.63	-59.01	113.64	39.06	33.48	11.7	29.61	100	61	P	H
	*	5835	110.47	-	-	94.23	34.04	11.83	29.63	100	61	P	H
	*	5835	102.3	-	-	86.06	34.04	11.83	29.63	100	61	A	H
		5898.75	62.85	-44.59	107.44	46.33	34.29	11.87	29.64	100	61	P	H
		5939.75	57.06	-31.14	88.2	40.51	34.3	11.9	29.65	100	61	P	H
		5900	51.96	-34.57	86.53	35.42	34.3	11.88	29.64	100	61	A	H
		5930	47.15	-21.05	68.2	30.6	34.3	11.9	29.65	100	61	A	H
802.11ax													H
HE40													H
CH 167		5609.44	53.02	-15.18	68.2	37.97	33.08	11.56	29.59	107	86	P	V
5835MHz		5691.45	53.59	-45.31	98.9	38.2	33.33	11.66	29.6	107	86	P	V
		5704.725	53.72	-52.8	106.52	38.23	33.42	11.68	29.61	107	86	P	V
		5724.785	54.31	-67.4	121.71	38.71	33.5	11.71	29.61	107	86	P	V
	*	5835	110.61	-	-	94.37	34.04	11.83	29.63	107	86	P	V
	*	5835	101.64	-	-	85.4	34.04	11.83	29.63	107	86	A	V
		5903.5	60.48	-43.48	103.96	43.94	34.3	11.88	29.64	107	86	P	V
		5984.75	56.82	-31.38	88.2	40.38	34.16	11.94	29.66	107	86	P	V
		5895	50.81	-39.39	90.2	34.3	34.28	11.87	29.64	107	86	A	V
		5925	45.92	-22.28	68.2	29.38	34.3	11.89	29.65	107	86	A	V
													V
													V



WIFI Ant. 4+3	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)
		5649.855	54.07	-14.13	68.2	39.06	33	11.61	29.6	231	63	P	H
		5649.855	54.07	-14.13	68.2	39.06	33	11.61	29.6	231	63	P	H
		5718.59	53.61	-56.8	110.41	38.05	33.47	11.7	29.61	231	63	P	H
		5722.72	52.51	-64.49	117	36.93	33.49	11.7	29.61	231	63	P	H
	*	5875	110.75	-	-	94.33	34.2	11.86	29.64	231	63	P	H
	*	5875	100.71	-	-	84.29	34.2	11.86	29.64	231	63	A	H
		5895	83.91	-26.29	110.2	67.4	34.28	11.87	29.64	231	63	P	H
		5927.25	65.96	-22.24	88.2	49.41	34.3	11.9	29.65	231	63	P	H
		5895	75.62	-14.58	90.2	59.11	34.28	11.87	29.64	231	63	A	H
		5925	54.28	-13.92	68.2	37.74	34.3	11.89	29.65	231	63	A	H
802.11ax													H
HE40													H
CH 175		5615.34	53.89	-14.31	68.2	38.84	33.07	11.57	29.59	350	84	P	V
5875MHz		5683.485	54.4	-38.61	93.01	39.08	33.27	11.65	29.6	350	84	P	V
		5716.23	53.9	-55.85	109.75	38.35	33.46	11.7	29.61	350	84	P	V
		5723.31	53.02	-65.33	118.35	37.44	33.49	11.7	29.61	350	84	P	V
	*	5875	108	-	-	91.58	34.2	11.86	29.64	350	84	P	V
	*	5875	98.09	-	-	81.67	34.2	11.86	29.64	350	84	A	V
		5895	80.23	-29.97	110.2	63.72	34.28	11.87	29.64	350	84	P	V
		5927	61.52	-26.68	88.2	44.97	34.3	11.9	29.65	350	84	P	V
		5895	73.59	-16.61	90.2	57.08	34.28	11.87	29.64	350	84	A	V
		5925	50.61	-17.59	68.2	34.07	34.3	11.89	29.65	350	84	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-4 - 5735~5895MHz

WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI Ant. 4+3	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)	
802.11ax HE40 CH 167 5835MHz		11670	47.62	-26.38	74	57.47	38.76	17.61	66.22	-	-	P	H	
		17505	48.19	-20.01	68.2	53.24	39.03	21.78	65.86	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11670	46.36	-27.64	74	56.21	38.76	17.61	66.22	-	-	P	V
			17505	49.5	-18.7	68.2	54.55	39.03	21.78	65.86	-	-	P	V
														V
														V
														V
														V
													V	
													V	
													V	



WIFI Ant. 4+3	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)
802.11ax HE40 CH 175 5875MHz		11750	46.8	-27.2	74	56.68	38.65	17.68	66.21	-	-	P	H
		17625	49.52	-18.68	68.2	53.61	39.75	21.84	65.68	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
	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.											



UNII-4 - 5735~5895MHz
WIFI 802.11ax HE80 (Band Edge @ 3m)

WIFI Ant. 4+3	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)
		5609.145	53.32	-14.88	68.2	38.27	33.08	11.56	29.59	100	65	P	H
		5684.37	54.73	-38.94	93.67	39.4	33.27	11.66	29.6	100	65	P	H
		5718.885	53.7	-56.79	110.49	38.13	33.48	11.7	29.61	100	65	P	H
		5720.36	53.39	-58.23	111.62	37.82	33.48	11.7	29.61	100	65	P	H
	*	5855	107.88	-	-	91.55	34.12	11.84	29.63	100	65	P	H
	*	5855	97.81	-	-	81.48	34.12	11.84	29.63	100	65	A	H
		5899	80.96	-26.3	107.26	64.43	34.3	11.87	29.64	100	65	P	H
		5928.25	74.8	-13.4	88.2	58.25	34.3	11.9	29.65	100	65	P	H
		5898.75	71.87	-15.57	87.44	55.35	34.29	11.87	29.64	100	65	A	H
		5929.25	65.38	-2.82	68.2	48.83	34.3	11.9	29.65	100	65	A	H
802.11ax													H
HE80													H
CH 171		5649.265	52.61	-15.59	68.2	37.6	33	11.61	29.6	350	83	P	V
5855MHz		5662.835	54	-23.73	77.73	38.87	33.1	11.63	29.6	350	83	P	V
		5708.56	52.97	-54.63	107.6	37.46	33.43	11.69	29.61	350	83	P	V
		5723.605	52.71	-66.31	119.02	37.13	33.49	11.7	29.61	350	83	P	V
	*	5855	105.5	-	-	89.17	34.12	11.84	29.63	350	83	P	V
	*	5855	95.56	-	-	79.23	34.12	11.84	29.63	350	83	A	V
		5895	80.49	-29.71	110.2	63.98	34.28	11.87	29.64	350	83	P	V
		5929.75	72.82	-15.38	88.2	56.27	34.3	11.9	29.65	350	83	P	V
		5895	72.17	-18.03	90.2	55.66	34.28	11.87	29.64	350	83	A	V
		5925	63.56	-4.64	68.2	47.02	34.3	11.89	29.65	350	83	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-4 - 5735~5895MHz
WIFI 802.11ax HE80 (Harmonic @ 3m)

WIFI Ant. 4+3	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)	
802.11ax HE80 CH 171 5855MHz		11710	47.33	-26.67	74	57.21	38.69	17.65	66.22	-	-	P	H	
		17565	49.87	-18.33	68.2	54.45	39.39	21.8	65.77	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
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													H	
													H	
													H	
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													H	
													H	
													H	
													H	
													H	
													H	
			11710	47.1	-26.9	74	56.98	38.69	17.65	66.22	-	-	P	V
			17565	49.94	-18.26	68.2	54.52	39.39	21.8	65.77	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



Emission above 18GHz

5GHz WIFI 802.11ax HE80 Full (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.		
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE80 Full SHF		21168	35.32	-38.68	74	55.6	37.73	-3.31	54.7	-	-	P	H	
		34792	42.19	-26.01	68.2	60.78	41.37	-1.5	58.46	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			20736	33.88	-40.12	74	54.31	37.81	-3.43	54.81	-	-	P	V
			34638	43.22	-24.98	68.2	61.64	41.56	-1.55	58.43	-	-	P	V
														V
														V
														V
														V
														V
														V
														V
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



Emission below 1GHz
WIFI 802.11ax HE80 Full (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.		
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE80 Full LF		30	21.79	-18.21	40	28.81	24.63	0.53	32.18	-	-	P	H	
		94.99	33.13	-10.37	43.5	48.69	15.2	1.5	32.26	-	-	P	H	
		181.32	33.1	-10.4	43.5	48.29	15.01	2.12	32.32	-	-	P	H	
		408.3	22.62	-23.38	46	29.61	22.32	3.1	32.41	-	-	P	H	
		706.09	28.48	-17.52	46	30.35	26.57	4.1	32.54	-	-	P	H	
		949.56	33.65	-12.35	46	29.65	30.54	4.8	31.34	-	-	P	H	
														H
														H
														H
														H
														H
														H
			31.94	21.9	-18.1	40	30.11	23.41	0.57	32.19	-	-	P	V
			94.99	29.37	-14.13	43.5	44.93	15.2	1.5	32.26	-	-	P	V
			186.17	28.84	-14.66	43.5	44.16	14.86	2.14	32.32	-	-	P	V
			440.31	25.49	-20.51	46	31.64	23.07	3.24	32.46	-	-	P	V
			807.94	29.9	-16.1	46	29.95	27.91	4.41	32.37	-	-	P	V
			944.71	33.44	-12.56	46	29.67	30.36	4.79	31.38	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	

Remark

- No other spurious found.
- All results are PASS against limit line.
- 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 Margin limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		11690	50.71	-23.29	74	49.34	38.48	19.48	56.59	296	188	P	V
CH 169		11690	42.92	-11.08	54	41.55	38.48	19.48	56.59	296	188	A	V
5845MHz													

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 @ 11690MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 38.48(dB/m) + 19.48(dB) + 49.34(dBμV) – 56.59 (dB)
= 50.71 (dBμV/m)
2. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 50.71(dBμV/m) – 74(dBμV/m)
= -23.29 (dB)

For Average Limit @ 11690MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 38.48(dB/m) + 19.48(dB) + 41.55(dBμV) – 56.59 (dB)
= 42.92 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 42.92(dBμV/m) – 54(dBμV/m)
= --11.08(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Andy Yang, Karl Hou and Steven Wu	Temperature :	15~25°C
		Relative Humidity :	50~65%

Note symbol

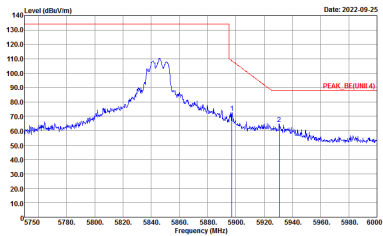
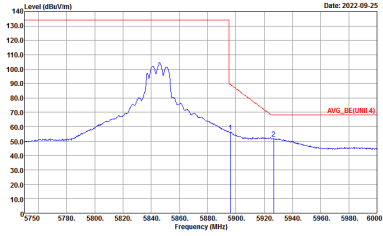
-L	Low channel location
-R	High channel location



UNII-4 - 5735~5895MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - L	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNII4)_16-24 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNIT-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

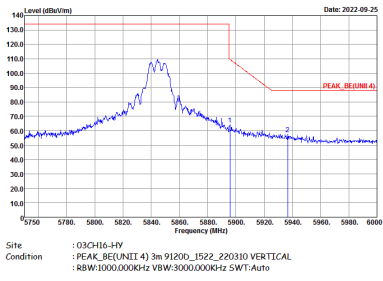
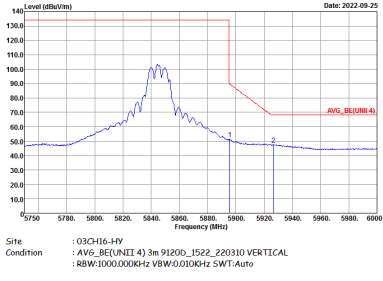


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - R	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:0.100KHz SWT:Auto</p>	Left blank

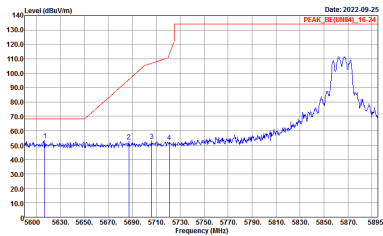
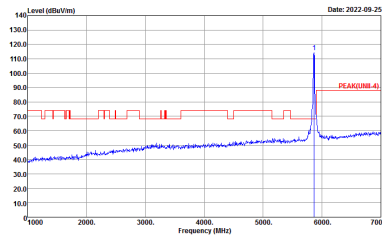
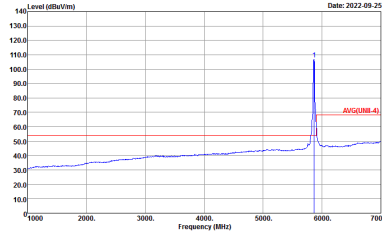


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - L	
4+3	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_05(UNII-4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

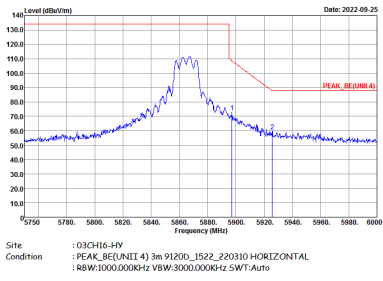
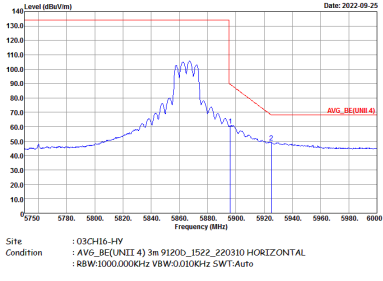


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>

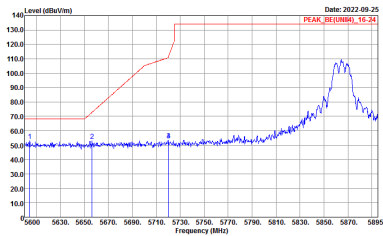
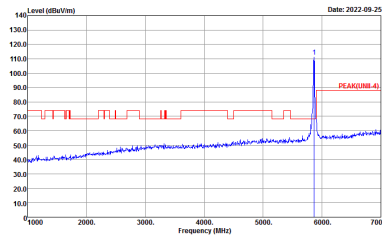
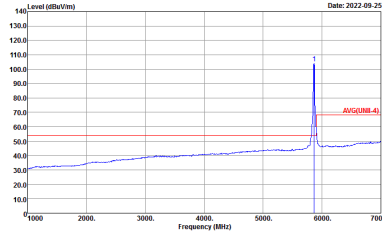


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz - L	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_85(UNII4)_16-24 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

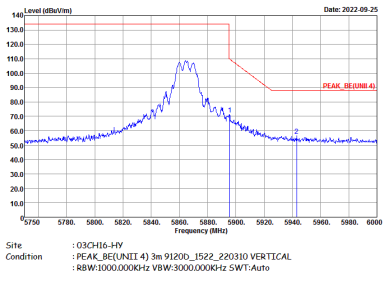
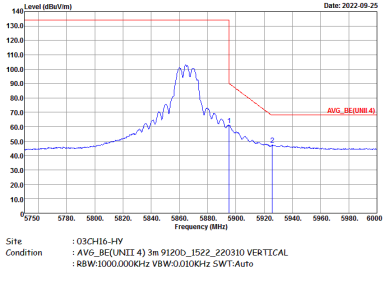


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz - R	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.100KHz SWT:Auto</p>	Left blank

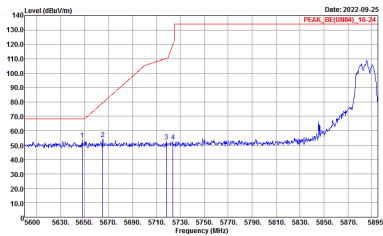
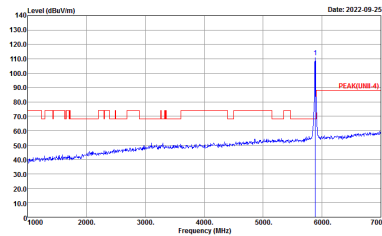
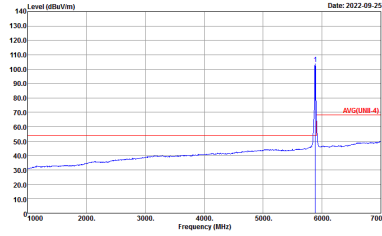


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Date: 2022-09-25 PEAK_05(100Hz)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_05(UNII-4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2022-09-25 PEAK(UNII-4)</p> <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left blank	 <p>Date: 2022-09-25 AVG(UNII-4)</p> <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

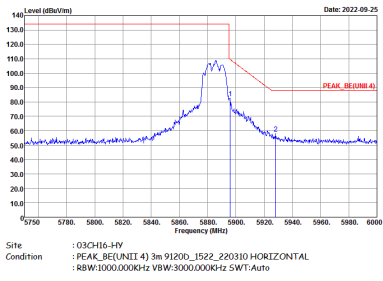
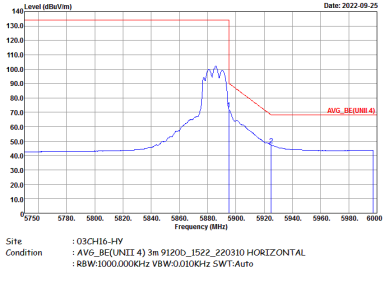


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - L	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_85(UNII4)_16-24 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

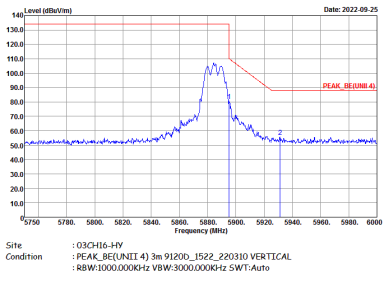
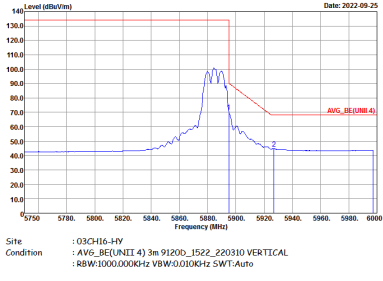


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>



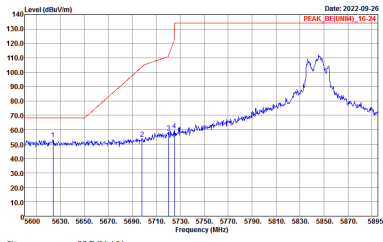
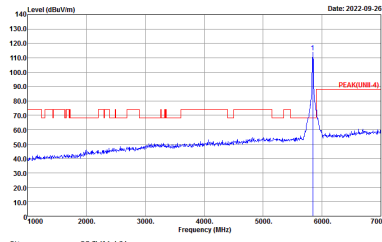
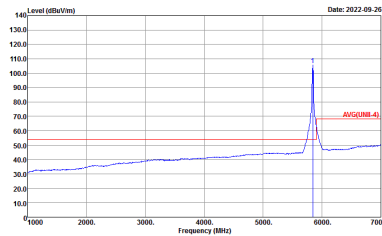
WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - L	
4+3	Vertical	Fundamental
Peak	<p>Date: 2022-09-25 PEAK_05(UNII-4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_05(UNII-4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2022-09-25</p> <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	<p>Date: 2022-09-25</p> <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>



UNII-4 - 5735~5895MHz
WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH169 5845MHz - L	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNII4)_16-24 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH169 5845MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>

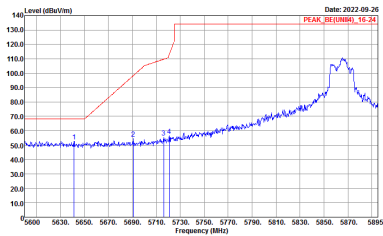
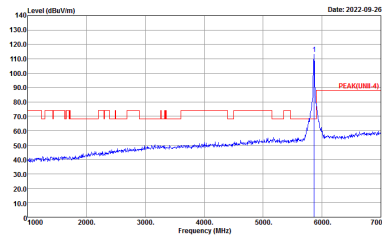
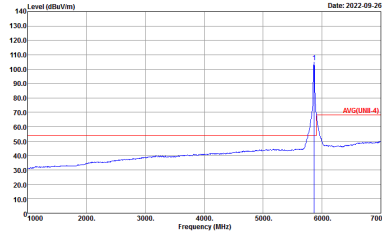


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH169 5845MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.	Left Blank	



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH169 5845MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>

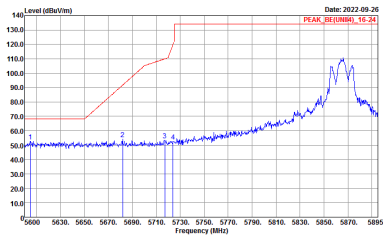
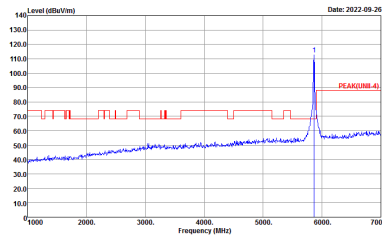
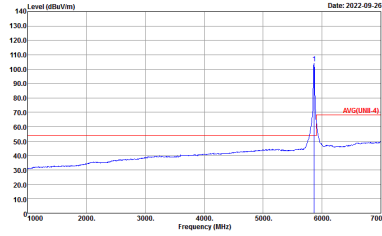


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH173 5865MHz - L	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_85(UNII4)_16-24 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	
		 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

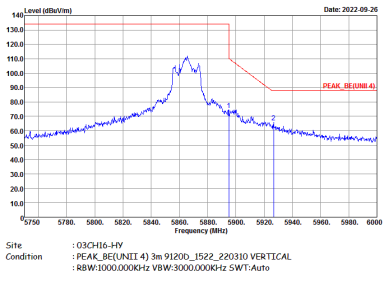
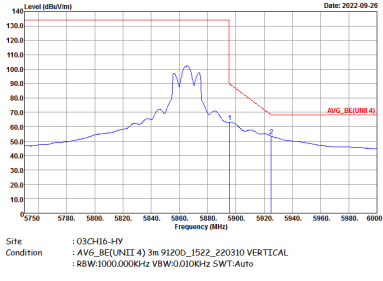


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH173 5865MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>

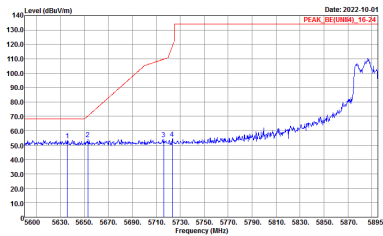
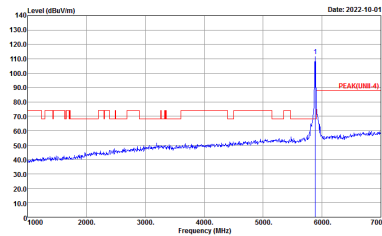
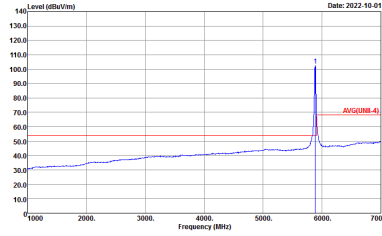


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH173 5865MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_05(UNII-4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

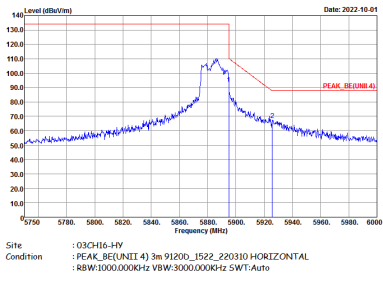
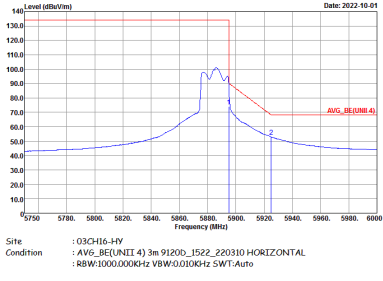


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH173 5865MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>

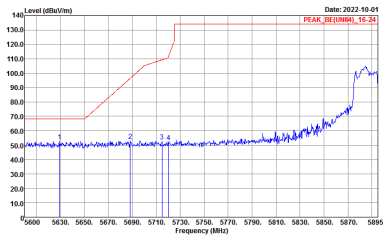
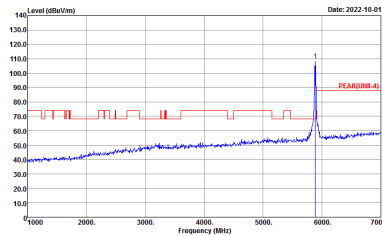
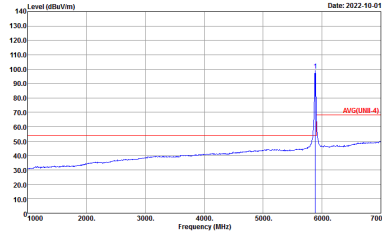


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH177 5885MHz - L	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_85(UNII4)_16-24 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

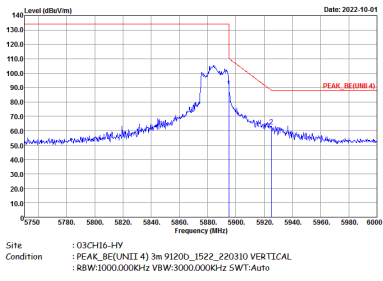
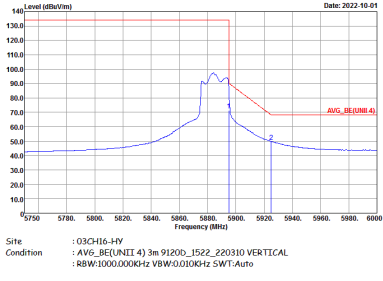


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH177 5885MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH177 5885MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_85(UNII4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	
		 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH177 5885MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>



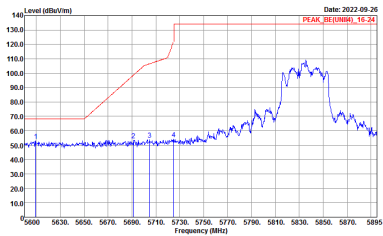
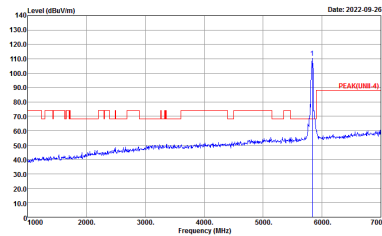
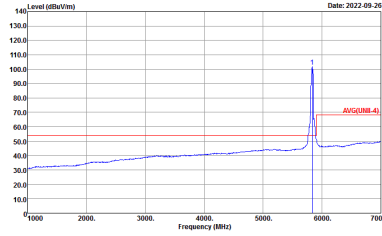
UNII-4 - 5735~5895MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH167 5835MHz - L	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNII4)_16-24 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	<p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

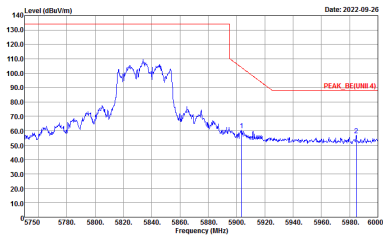
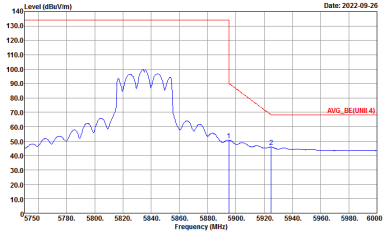


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH167 5835MHz - R	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.100KHz SWT:Auto</p>	Left blank



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH167 5835MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_0E110000_15-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK00B-4 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	 <p>Site : 03CH16-HY Condition : AVG00B-4 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH167 5835MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.100KHz SWT:Auto</p>	<p>Left blank</p>

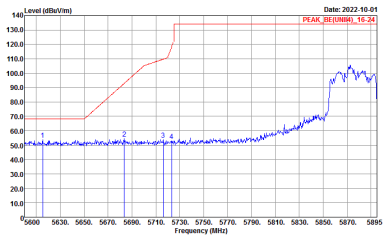
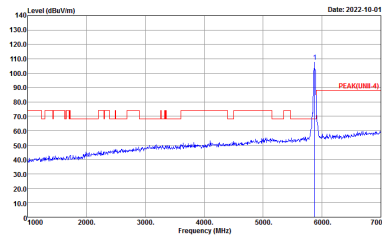
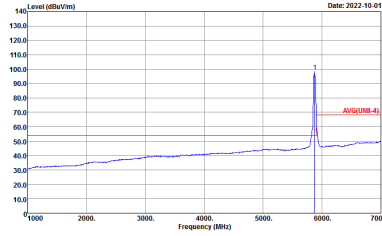


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH175 5875MHz - L	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_8C(UNII-4)_16-24 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	<p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

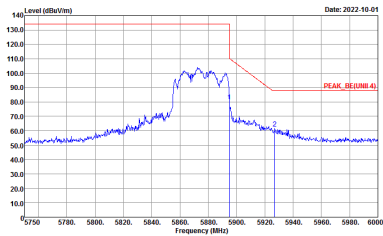
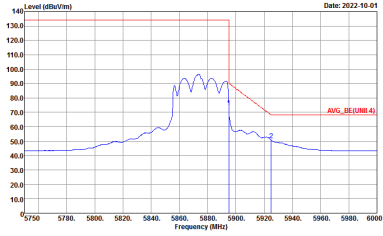


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH175 5875MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH175 5875MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_8C(UNII4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	
		 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



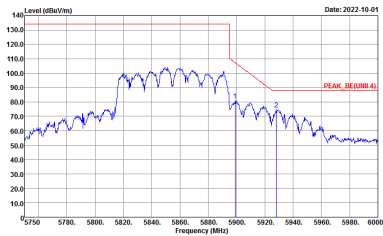
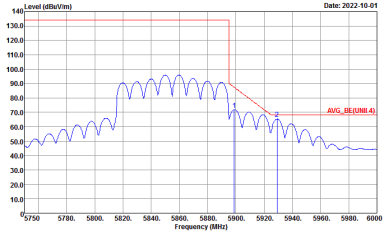
WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH175 5875MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.100KHz SWT:Auto</p>	<p>Left blank</p>



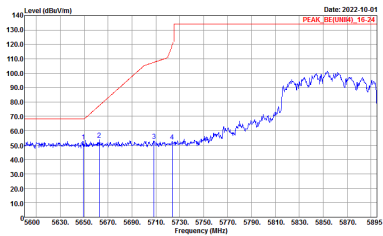
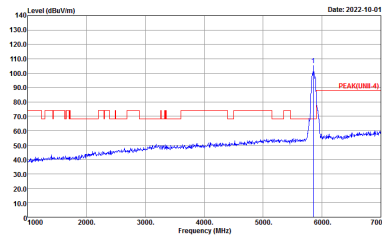
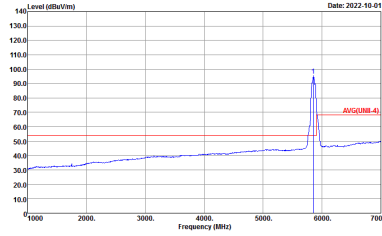
UNII-4 - 5735~5895MHz
WIFI 802.11ac HE80 (Band Edge @ 3m)

WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ac HE80 CH171 5855MHz - L	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNII4)_16-24 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	<p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 9120D_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

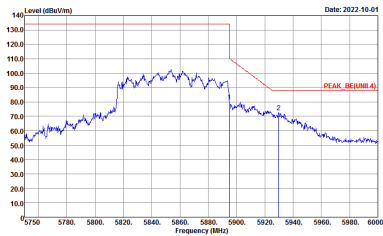
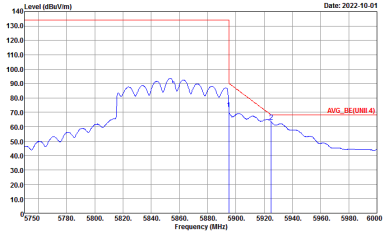


WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ac HE80 CH171 5855MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.100KHz SWT:Auto</p>	<p>Left blank</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ac HE80 CH171 5855MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_8C(UNII-4)_16-24 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left Blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII-4 5735~5895MHz Band Edge @ 3m	
ANT	802.11ac HE80 CH171 5855MHz - R	
4+3	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.100KHz SWT:Auto</p>	<p>Left blank</p>



UNII-4 - 5735~5895MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11a CH169 5845MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11a CH169 5845MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11a CH173 5865MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11a CH173 5865MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11a CH177 5885MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



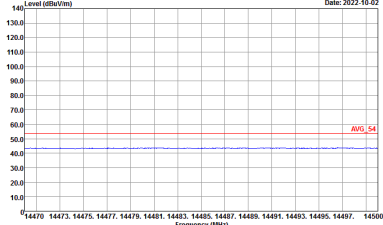
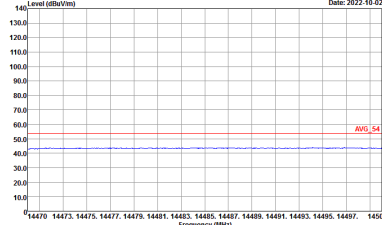
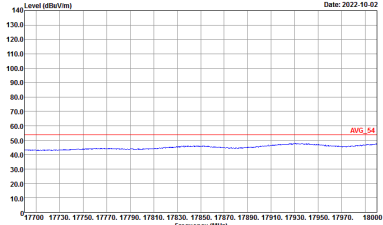
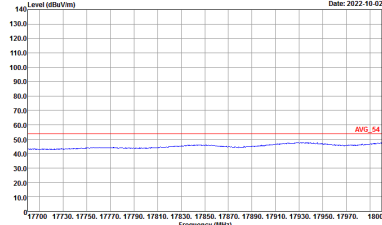
WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11a CH177 5885MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



**UNII-4 - 5735~5895MHz
WIFI 802.11ax HE20 (Harmonic @ 3m)**

WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH169 5845MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : -PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : -PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH169 5845MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH173 5865MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH173 5865MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH177 5885MHz	
4+3	Horizontal	Vertical
Peak	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>
Avg.		



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH177 5885MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



**UNII-4 - 5735~5895MHz
WIFI 802.11ax HE40 (Harmonic @ 3m)**

WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 CH167 5835MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : -PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : -PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>

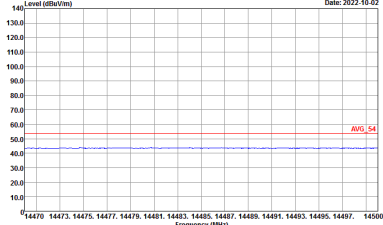
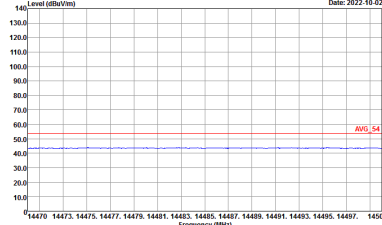
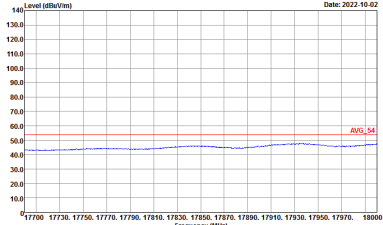
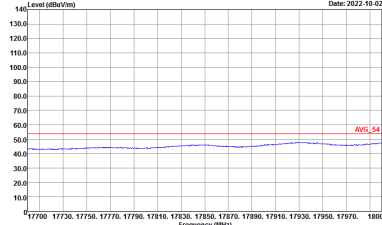


WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 CH167 5835MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 CH175 5875MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 CH175 5875MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



**UNII-4 - 5735~5895MHz
WIFI 802.11ac HE80 (Harmonic @ 3m)**

WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ac HE80 CH171 5855MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : -PEAK(UNII) 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : -PEAK(UNII) 3m 91200_1522_220310 VERTICAL</p>



WIFI	UNII-4 5735~5895MHz Harmonic @ 3m	
ANT	802.11ac HE80 CH171 5855MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>
<p>17.7G ~18G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>



Emission above 18GHz
5GHz WIFI 802.11ax HE80 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full SHF	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 1m SHF ANT_9170_00993 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 1m SHF ANT_9170_00993 VERTICAL</p>



Emission below 1GHz
 5GHz WIFI 802.11ax HE80 Full (LF @ 3m)

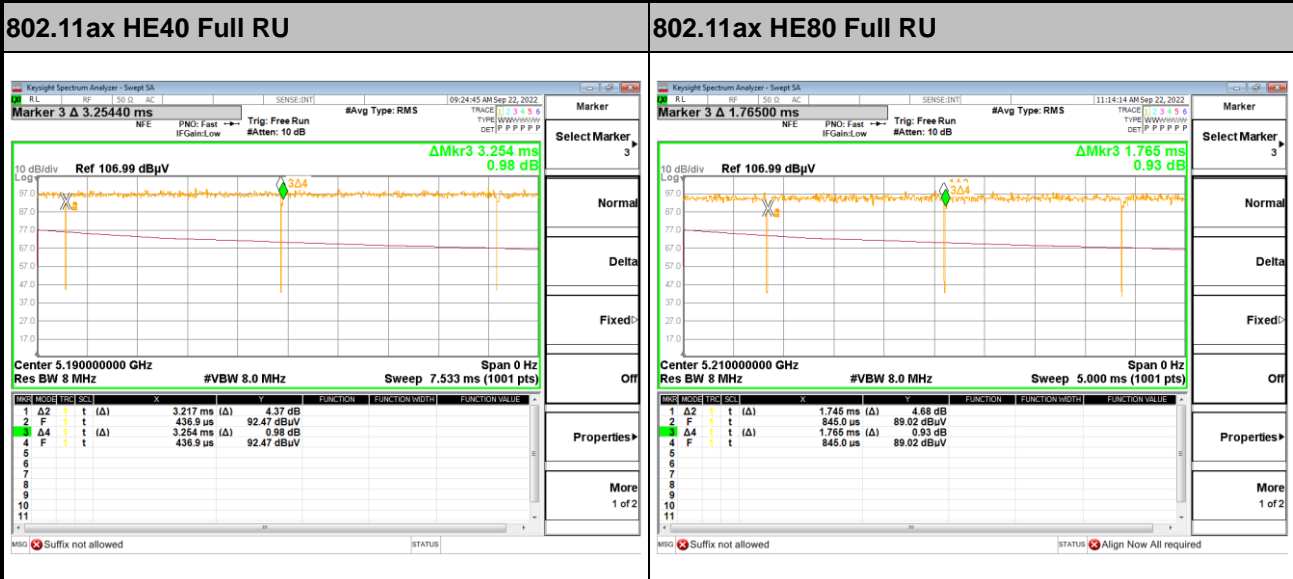
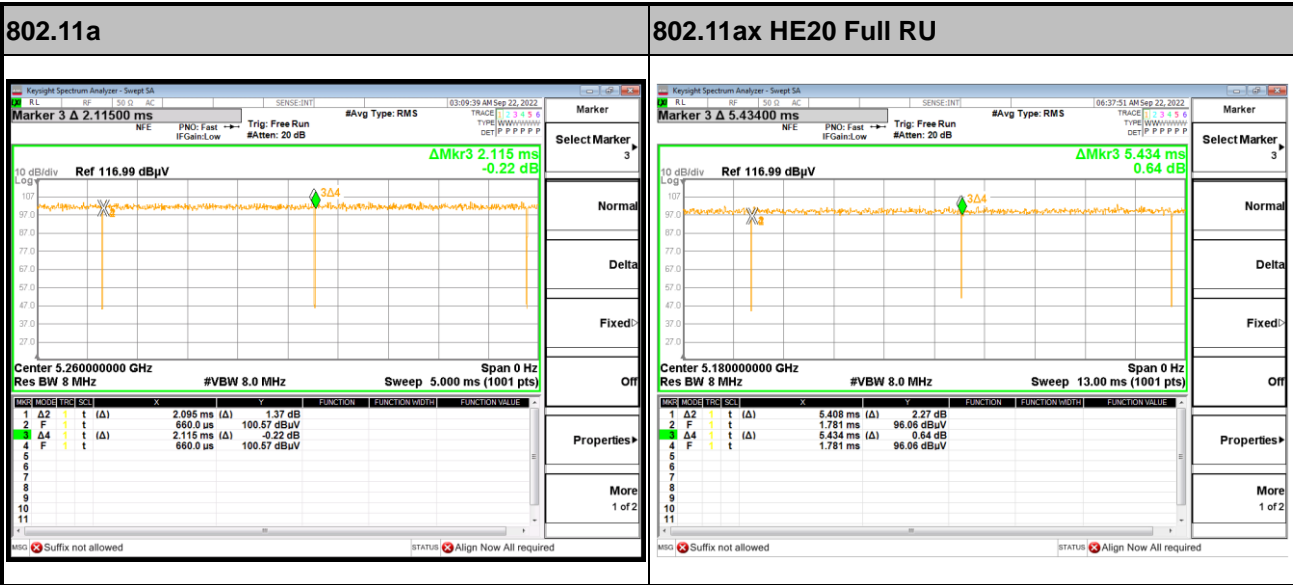
WIFI	5GHz WIFI	
ANT	8802.11ax HE80 Full LF	
4+3	Horizontal	Vertical
QP / Peak	<p>Site : 03CH16-HY Condition : QP 3m 81LOG_47020_211009 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : QP 3m 81LOG_47020_211009 VERTICAL</p>



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
4+3	5GHz 802.11a	99.05	-	-	10Hz
4+3	5GHz 802.11ax HE20 Full RU	99.52	-	-	10Hz
4+3	5GHz 802.11ax HE40 Full RU	98.86	-	-	10Hz
4+3	5GHz 802.11ax HE80 Full RU	98.87	-	-	10Hz

MIMO <Ant. 4+3>



—THE END—