FCC RADIO TEST REPORT

FCC ID	:	**H8N-ASK-NCQ1338**
Equipment	:	**Verizon Internet Gateway**
Brand Name	:	**Verizon Internet Gateway**
Model Name	:	**ASK-NCQ1338**
Applicant	:	**Askey Computer Corporation 10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 23585, TAIWAN, R.O.C.**
Manufacturer	:	**Askey Computer Corporation 10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 23585, TAIWAN, R.O.C.**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Feb. 08, 2021 and testing was started from Mar. 02, 2021 and completed on Apr. 08, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR110616E	01	Initial issue of report	Apr. 12, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.18 dB at 5630.200 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.66 dB at 0.434 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Cindy Liu

1 General Description

1.1 Product Feature of Equipment Under Test

LTE, 5G NR, Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Fixed internal PIFA antenna WLAN : Fixed internal Dipole antenna Bluetooth-LE: Fixed internal Dipole antenna GPS: Fixed internal Dipole antenna

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 10: 2.9 Ant. 11: 3.7 Ant. 12: 3.2 Ant. 13: 3.5

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

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH05-HY, CO05-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

STBC Mode

Modulation	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

TXBF Mode

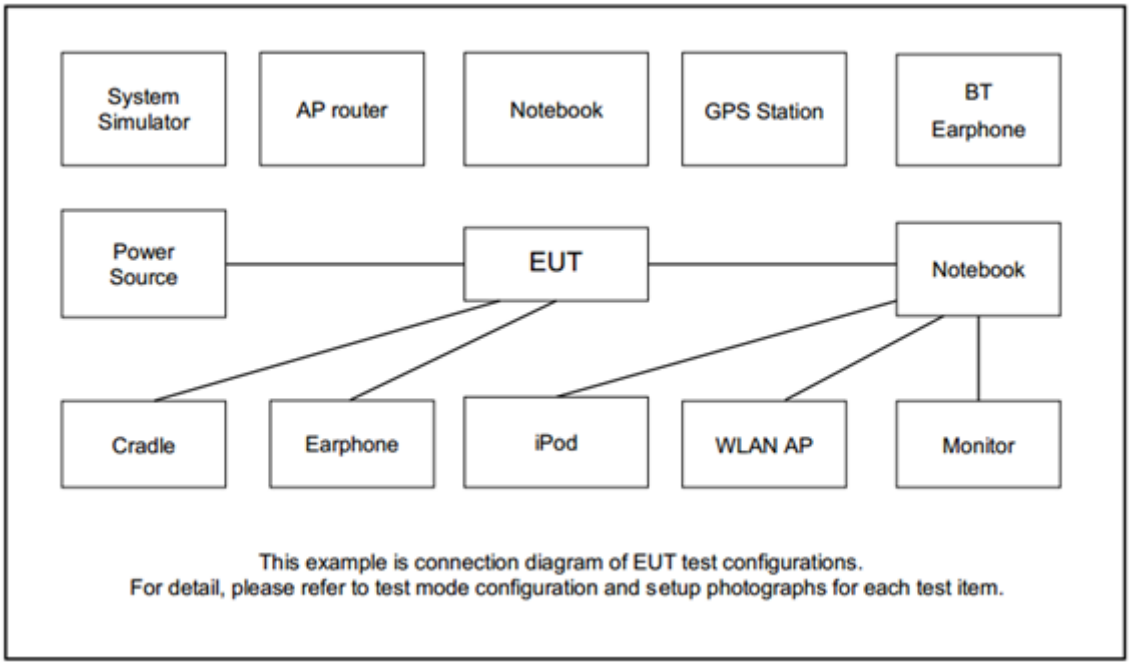
Modulation	Data Rate
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : Blutooth Link + WLAN (5GHz) Link + RJ-45 Link (LAN) + Adapter 1
Remark: For Radiated Test Cases, the tests were performed with Adapter 1.	

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Dell	Latitude 5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Leveon	L570	FCC DoC	NA	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
5.	Smart Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A

2.5 EUT Operation Test Setup

For RF test items, utility “QRCT4 .0.00156.0” 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.

For 802.11ax M/BE unmode tone test items, utility “QSPR Version 5.0-00197” 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.

For TXBF mode test items, utility “Tera Term Version 4.100” 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

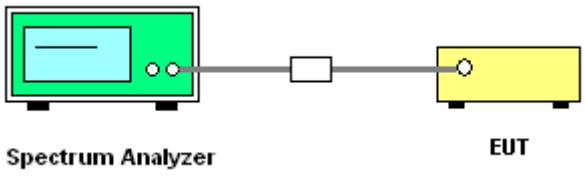
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup



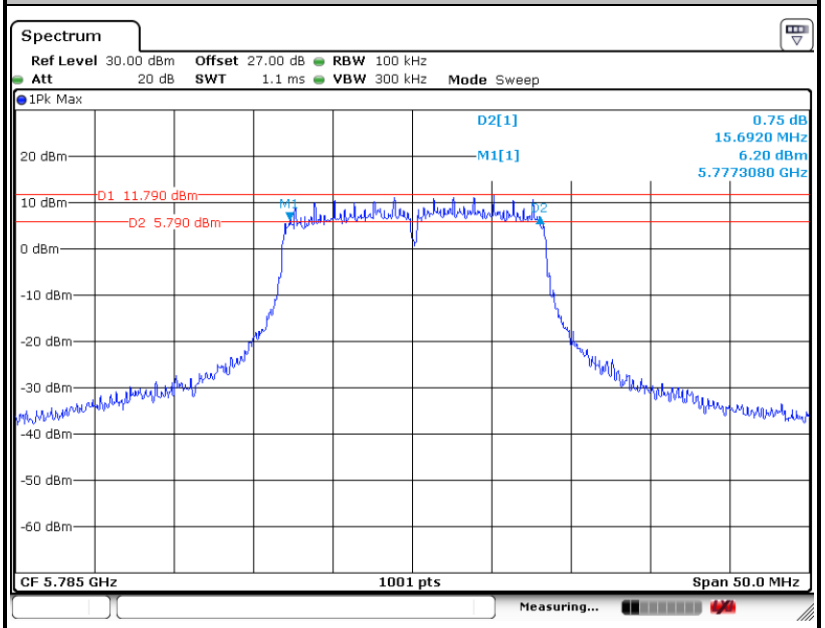
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

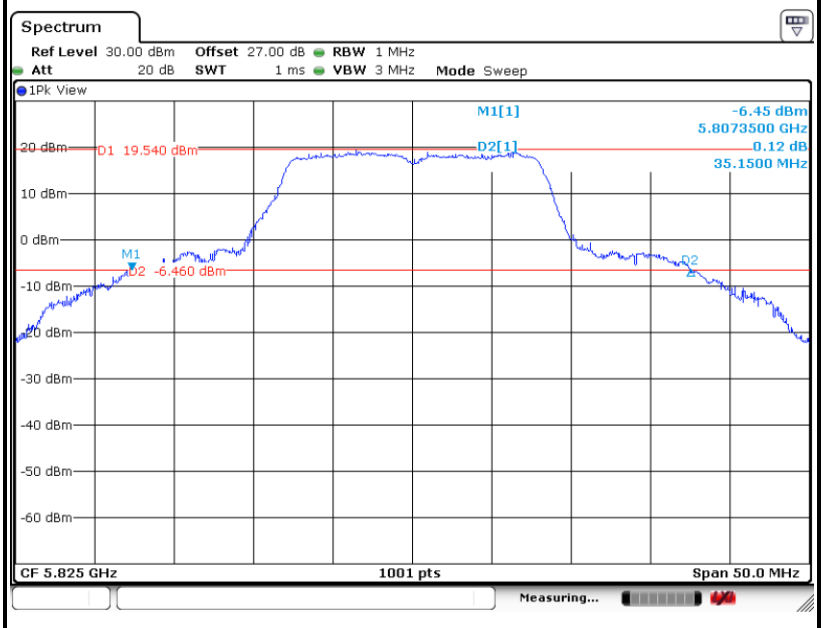
<STBC Mode>

<For 802.11a Mode>

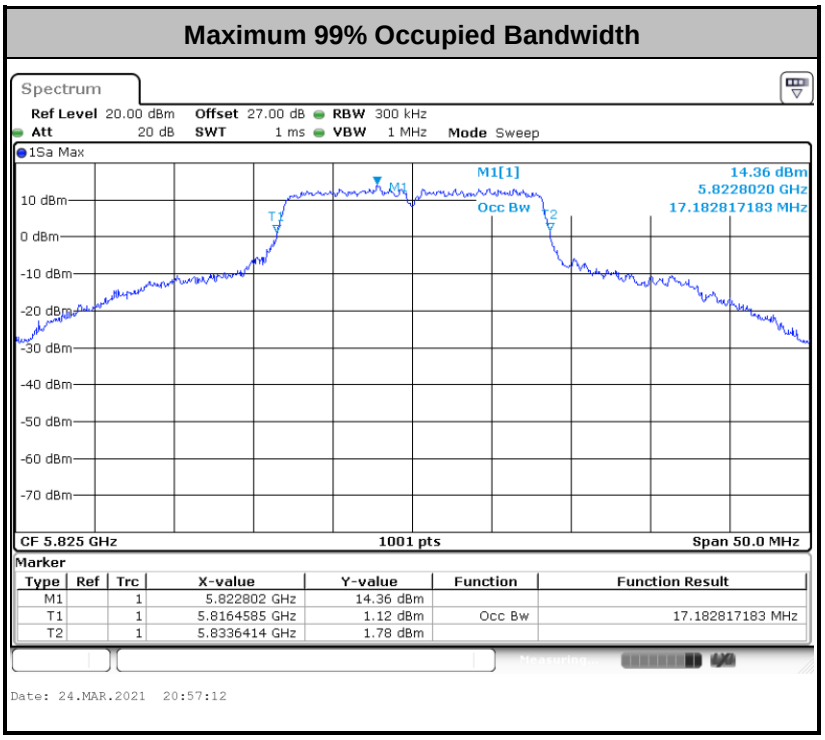
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



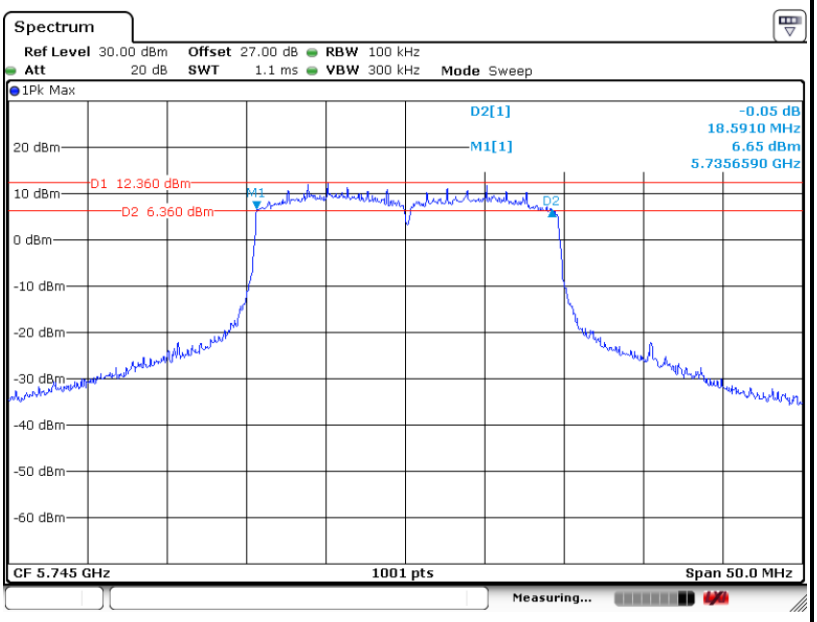
Maximum 99% Occupied Bandwidth



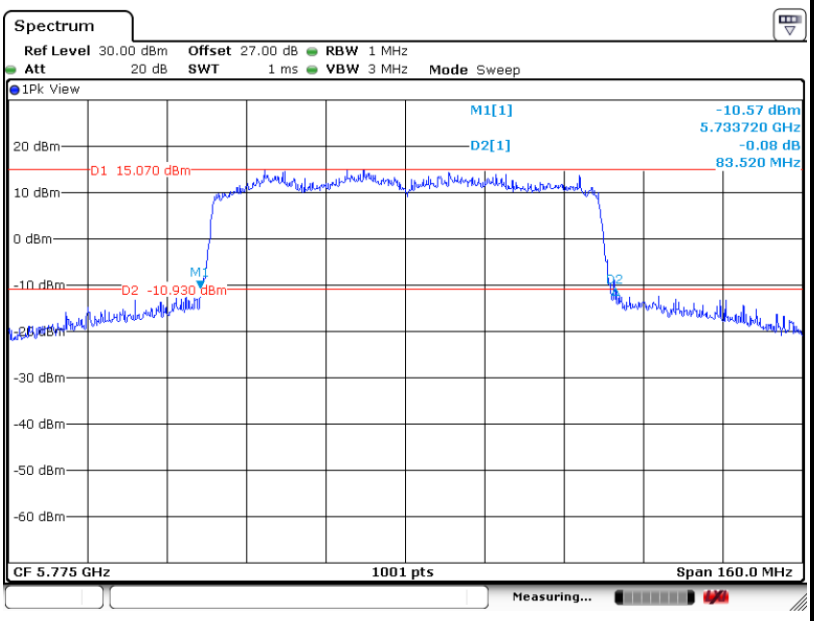
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<For 802.11ax Mode>

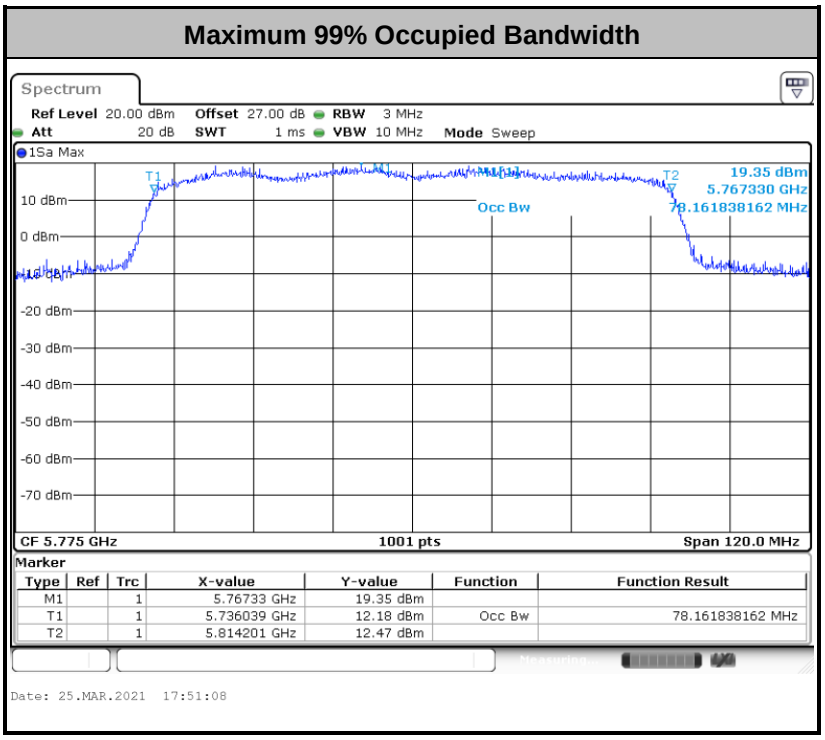
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



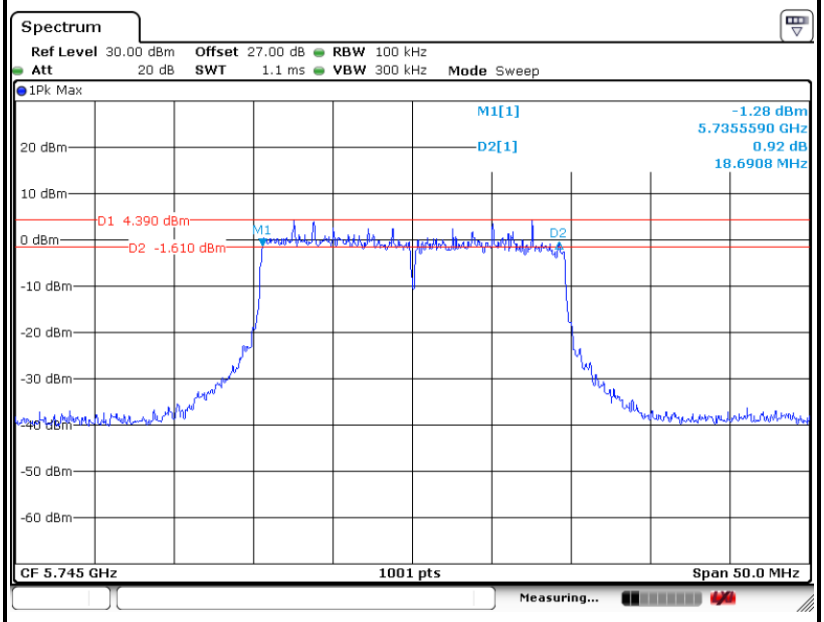
Maximum 99% Occupied Bandwidth



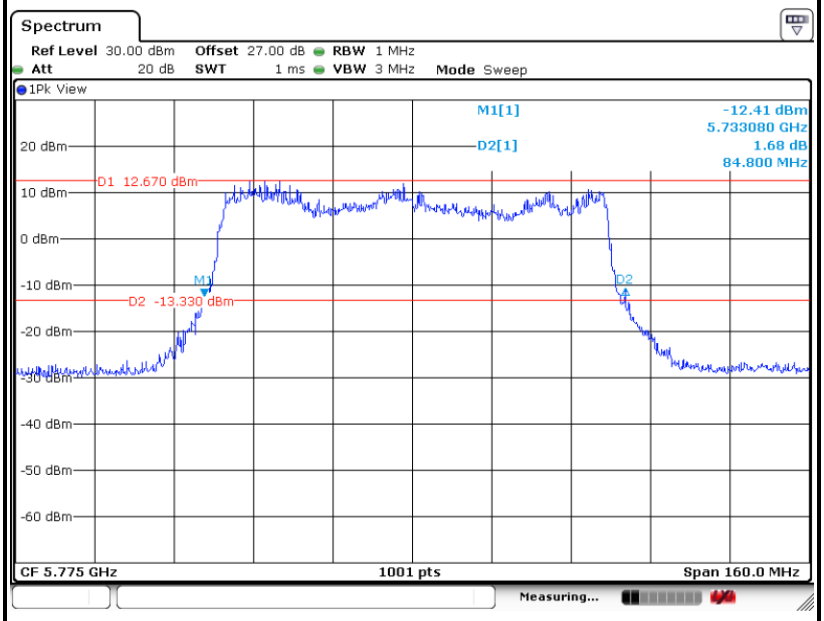
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

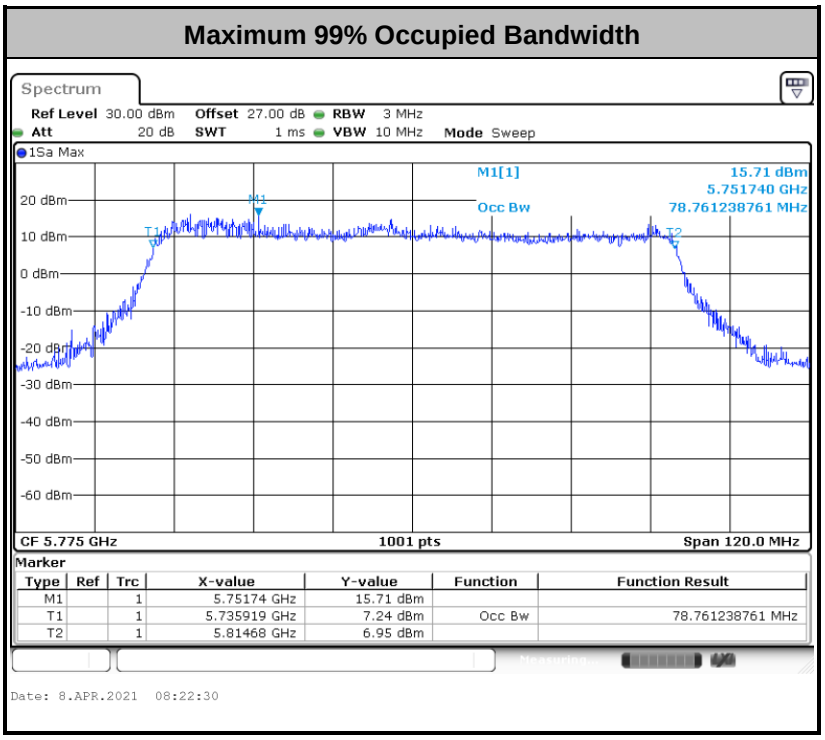
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

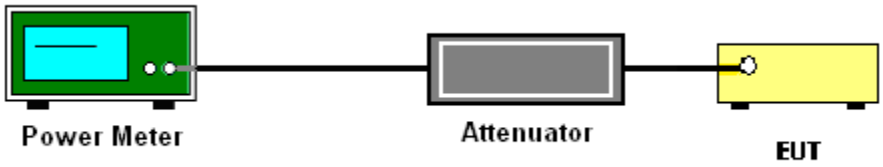
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

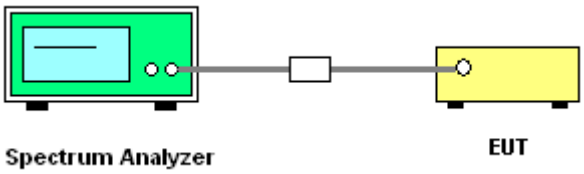
 # Method SA-3 #

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
   Method (c): Measure and add 10 log(N_{ANT}) dB.
   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

3.3.4 Test Setup



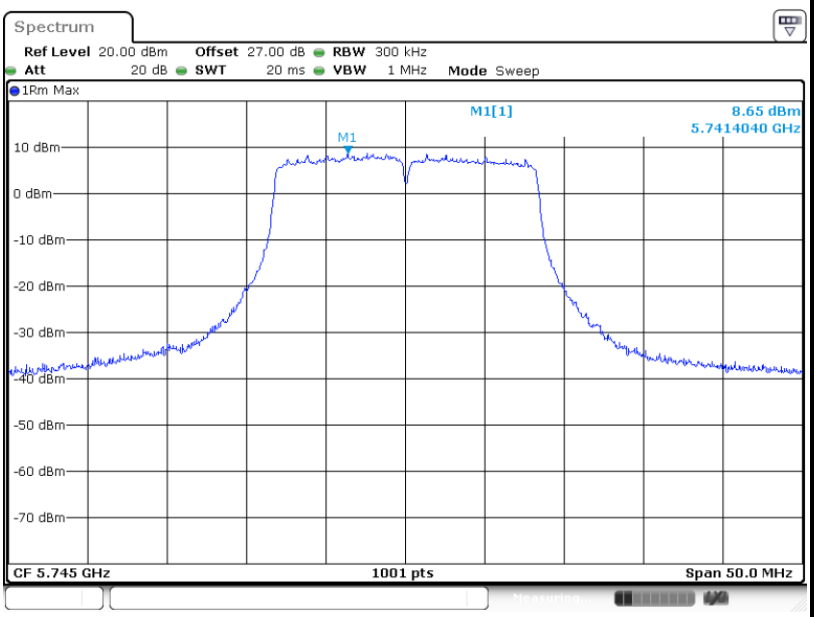
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

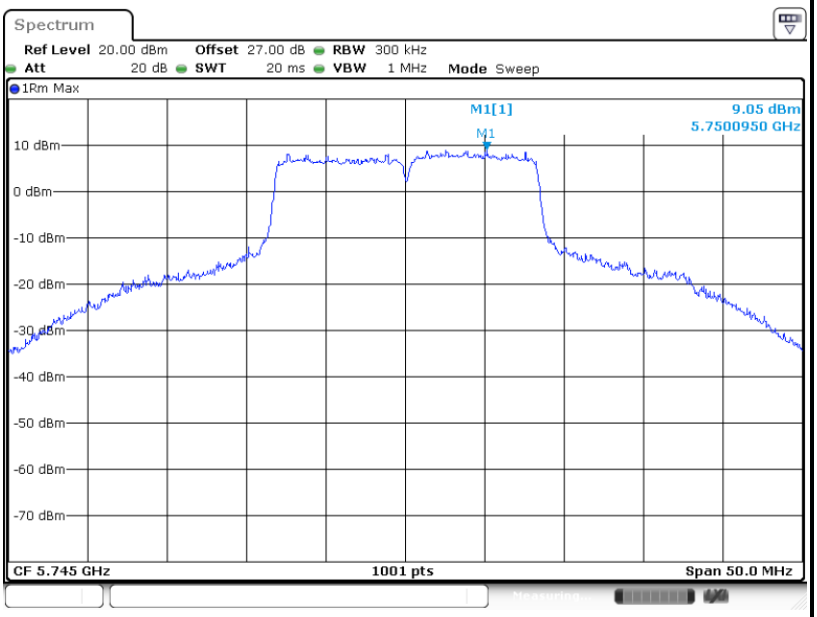
<STBC Modes>

<For 802.11a Mode>

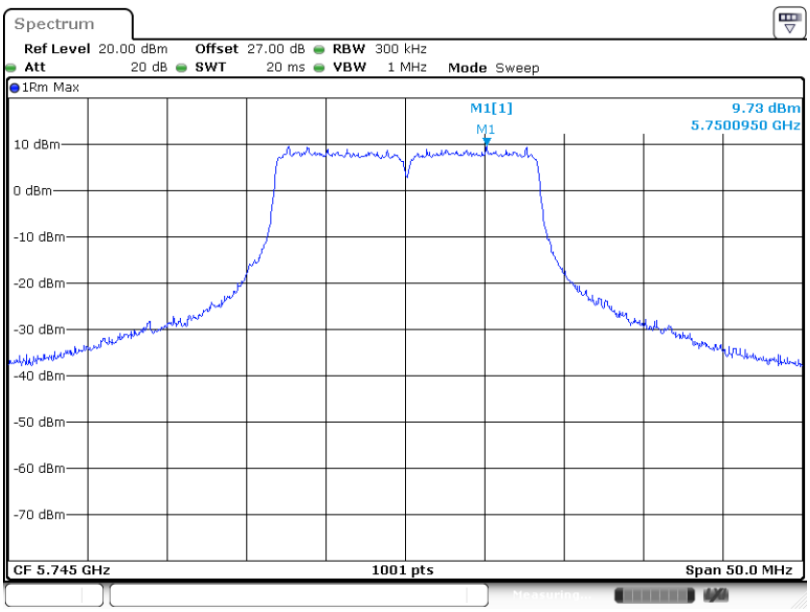
Worst Case Power Density (dBm/MHz) for MIMO Ant. 10



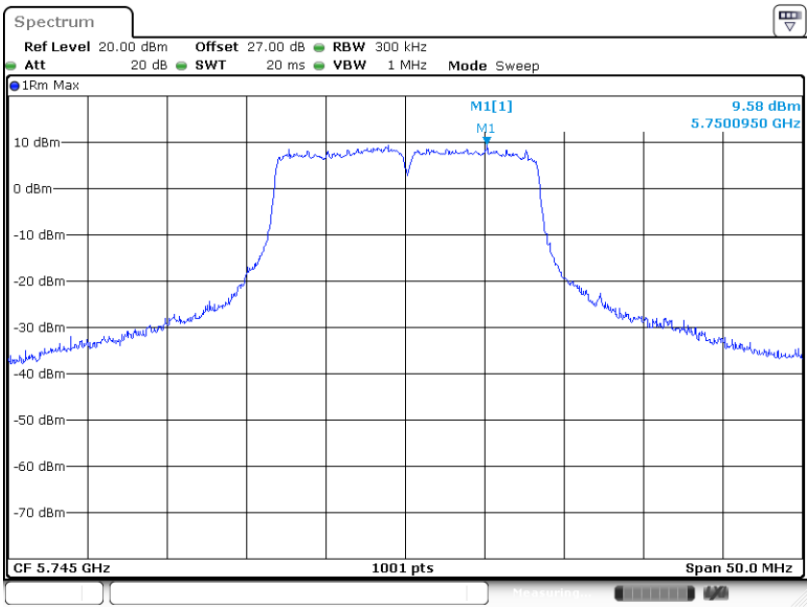
Worst Case Power Density (dBm/MHz) for MIMO Ant. 11



Worst Case Power Density (dBm/MHz) for MIMO Ant. 12

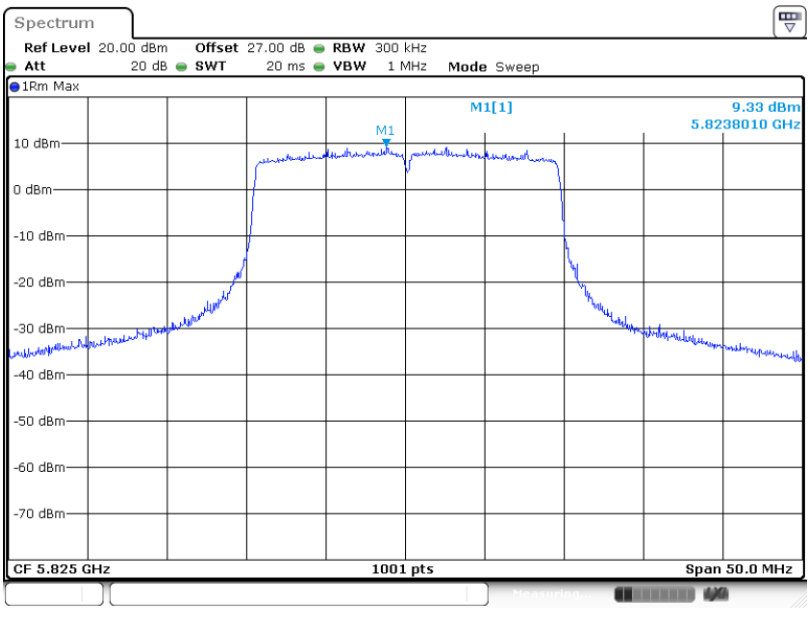


Worst Case Power Density (dBm/MHz) for MIMO Ant. 13

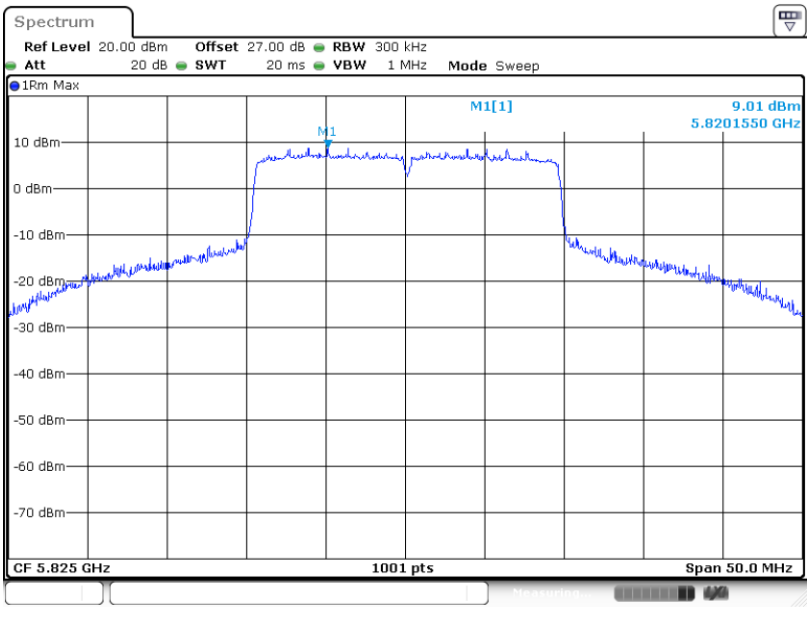


<For 802.11ax Mode>

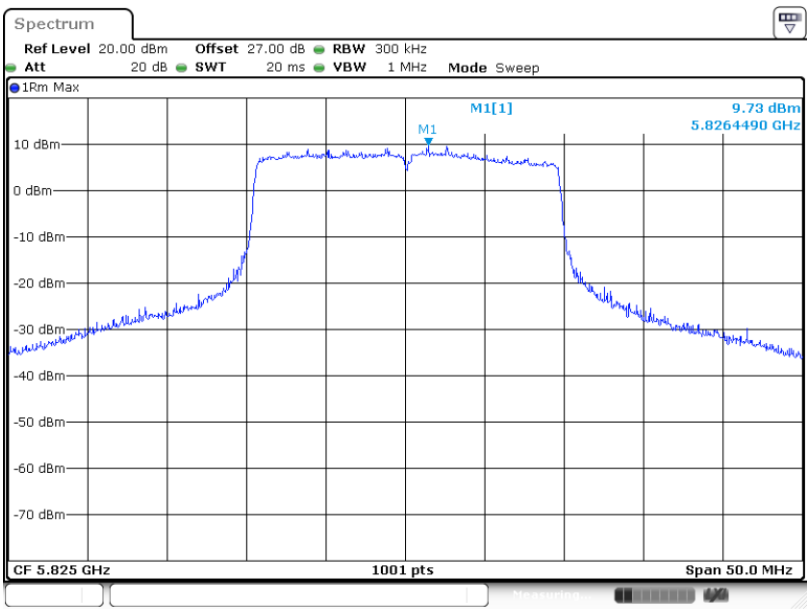
Worst Case Power Density (dBm/MHz) for MIMO Ant. 10



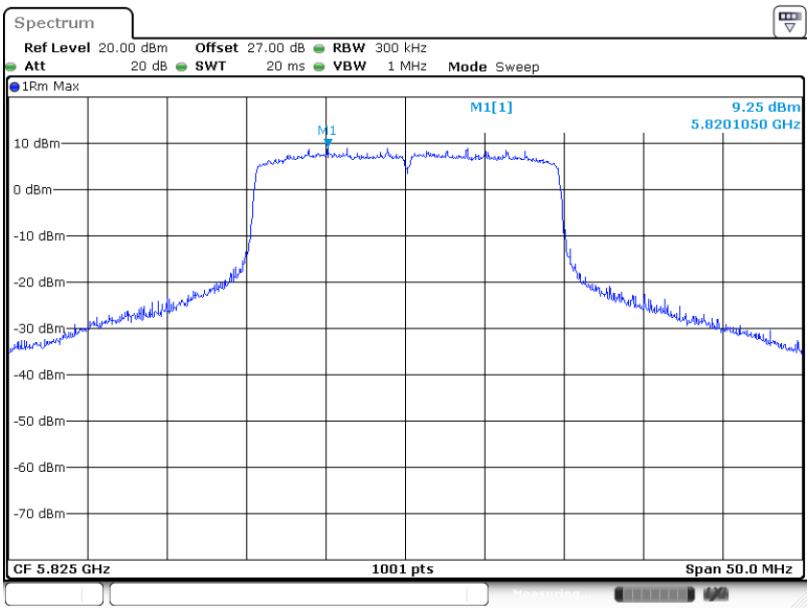
Worst Case Power Density (dBm/MHz) for MIMO Ant. 11



Worst Case Power Density (dBm/MHz) for MIMO Ant. 12

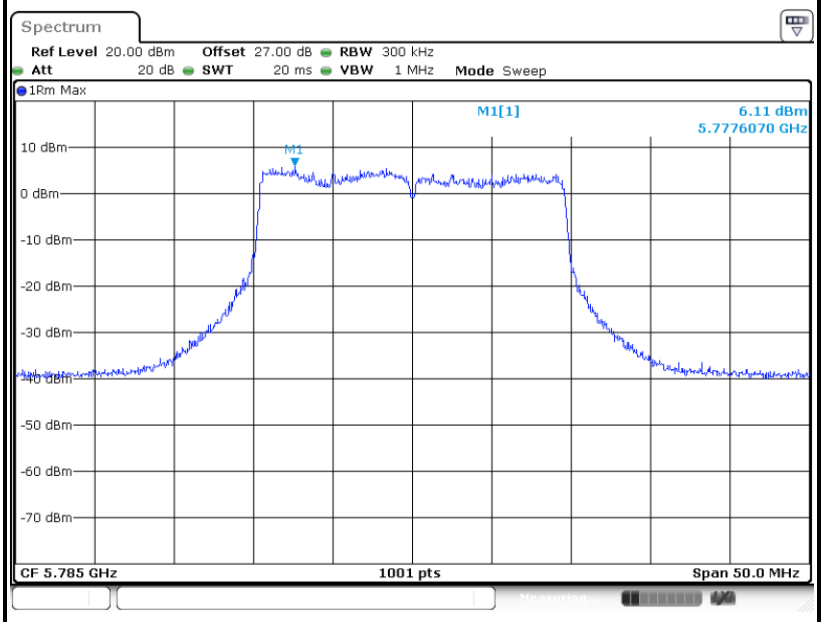


Worst Case Power Density (dBm/MHz) for MIMO Ant. 13

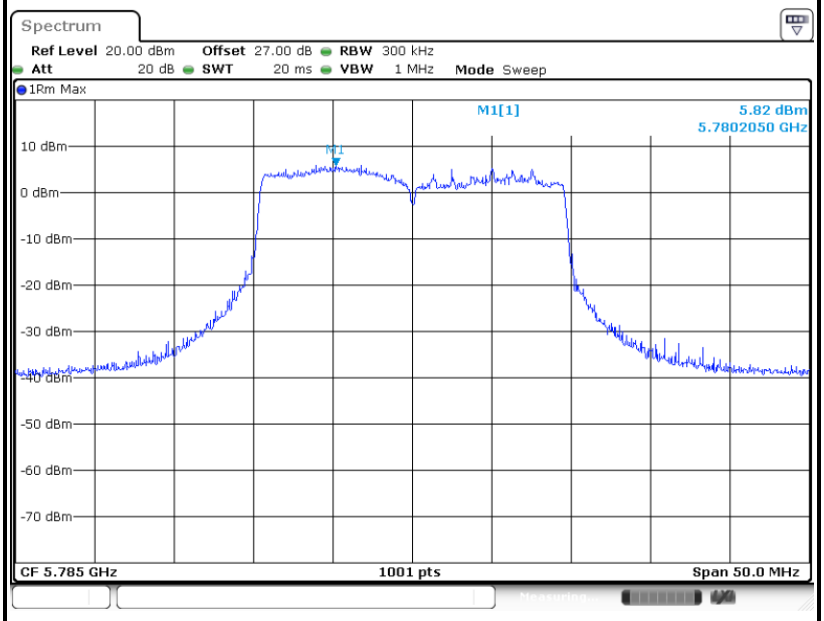


<TXBF Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 10



Worst Case Power Density (dBm/MHz) for MIMO Ant. 11



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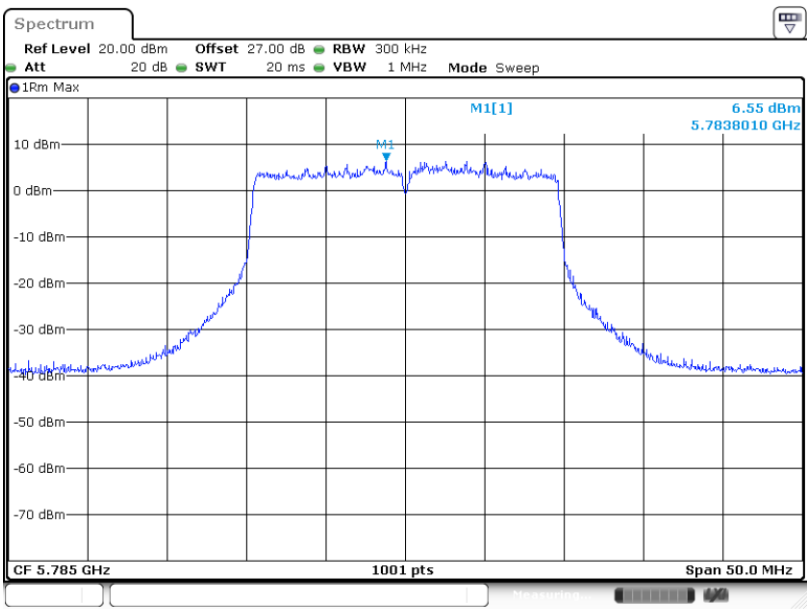
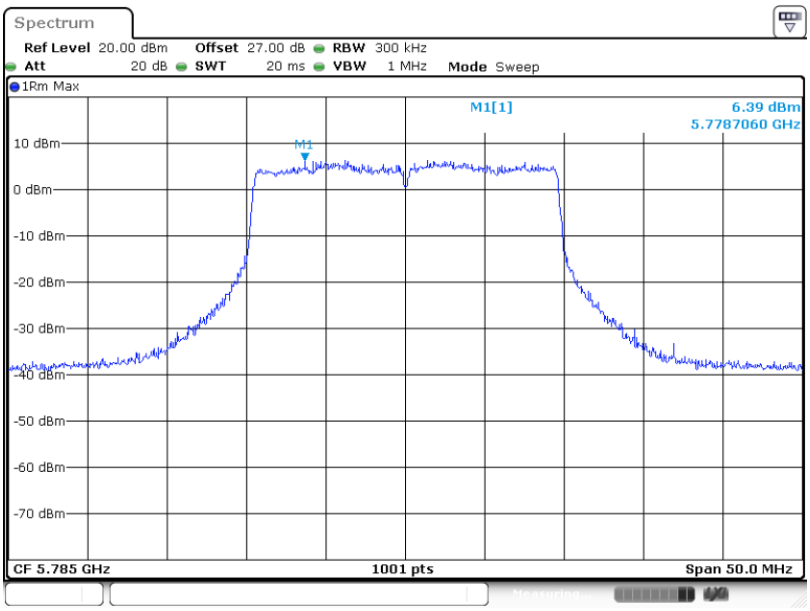


Worst Case Power Density (dBm/MHz) for MIMO Ant. 13



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

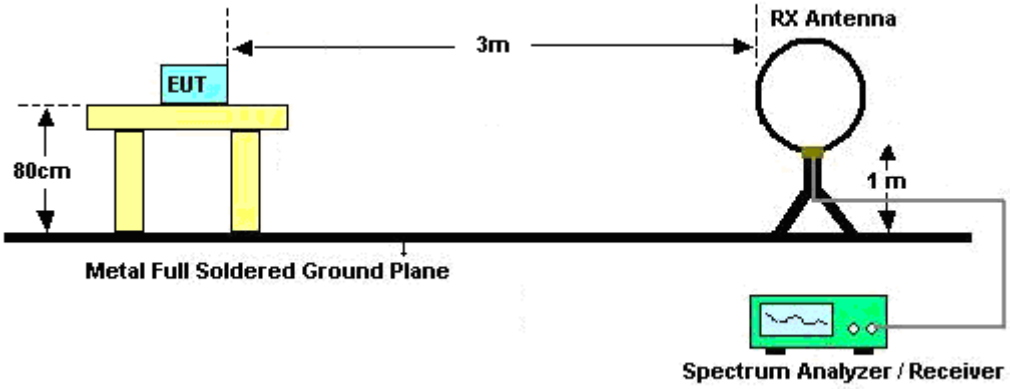
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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 set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.

7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

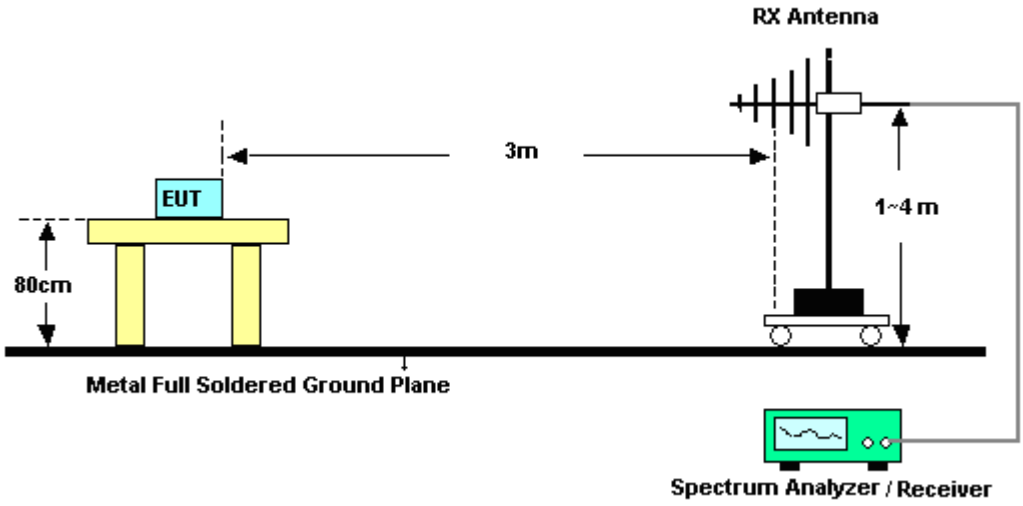
3.4.4 Test Setup

For radiated emissions below 30MHz

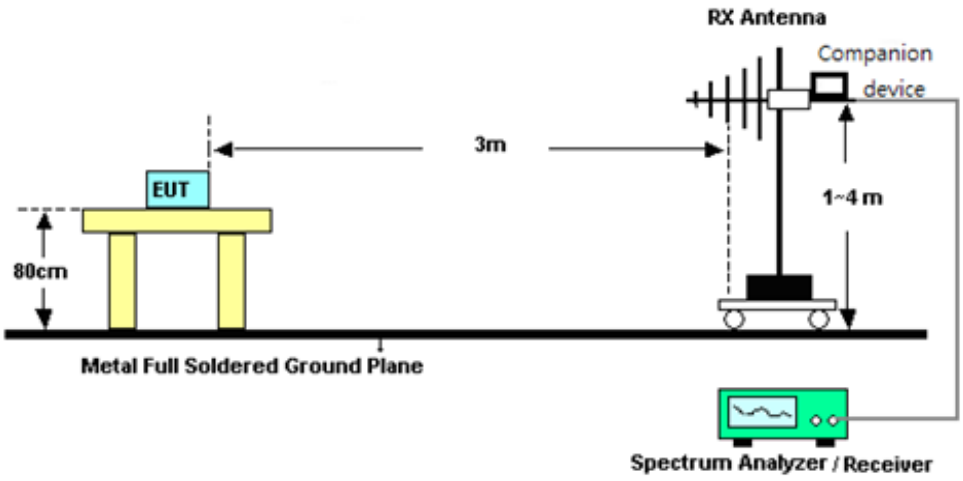


For radiated emissions from 30MHz to 1GHz

<STBC Mode>

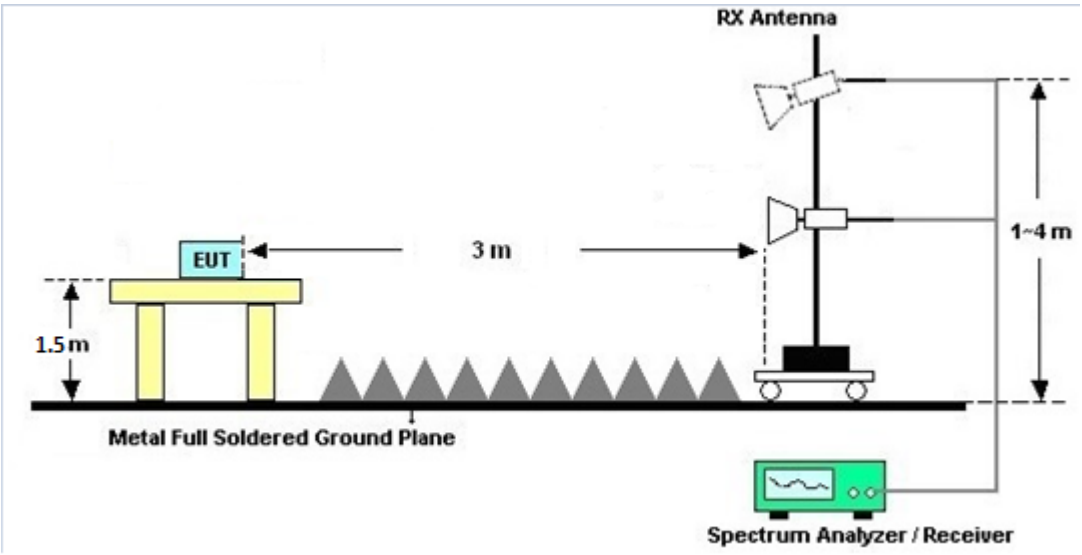


<TXBF Modes>

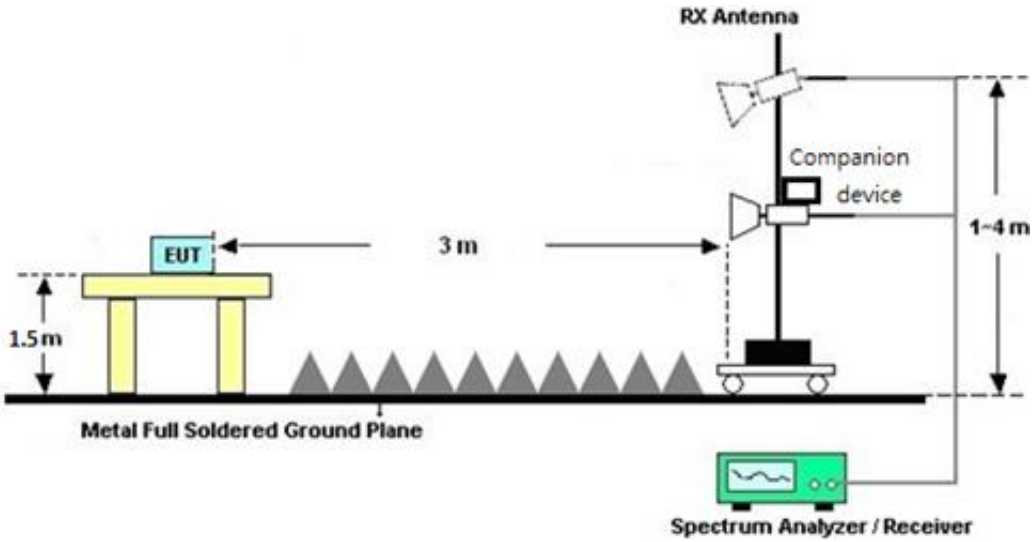


For radiated test from 1GHz to 18GHz

<STBC Mode>

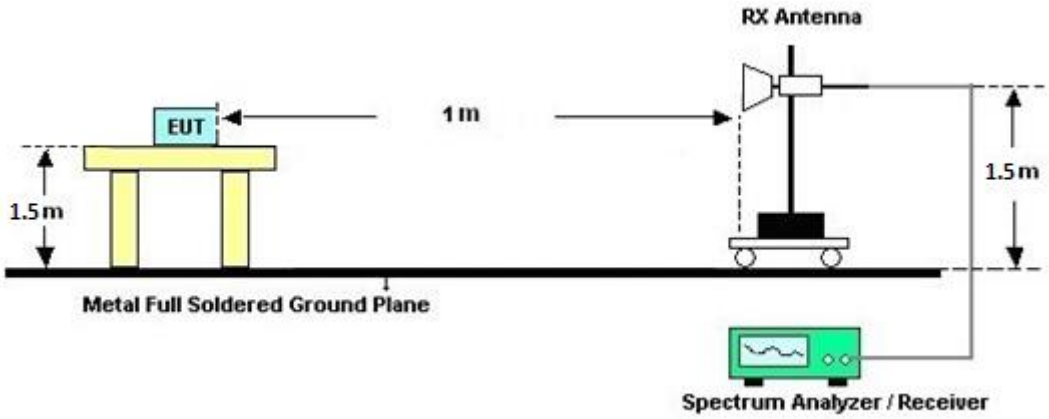


<TXBF Modes>

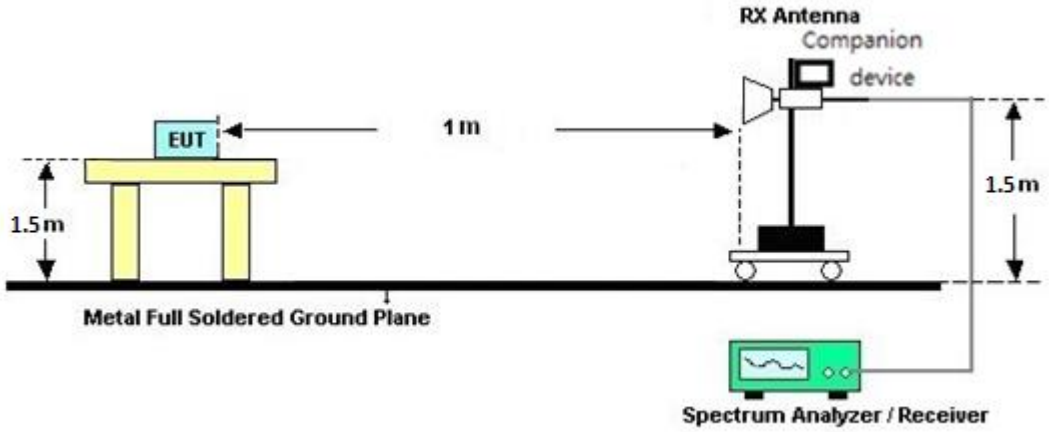


For radiated test above 18GHz

<STBC Mode>



<TXBF Modes>



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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

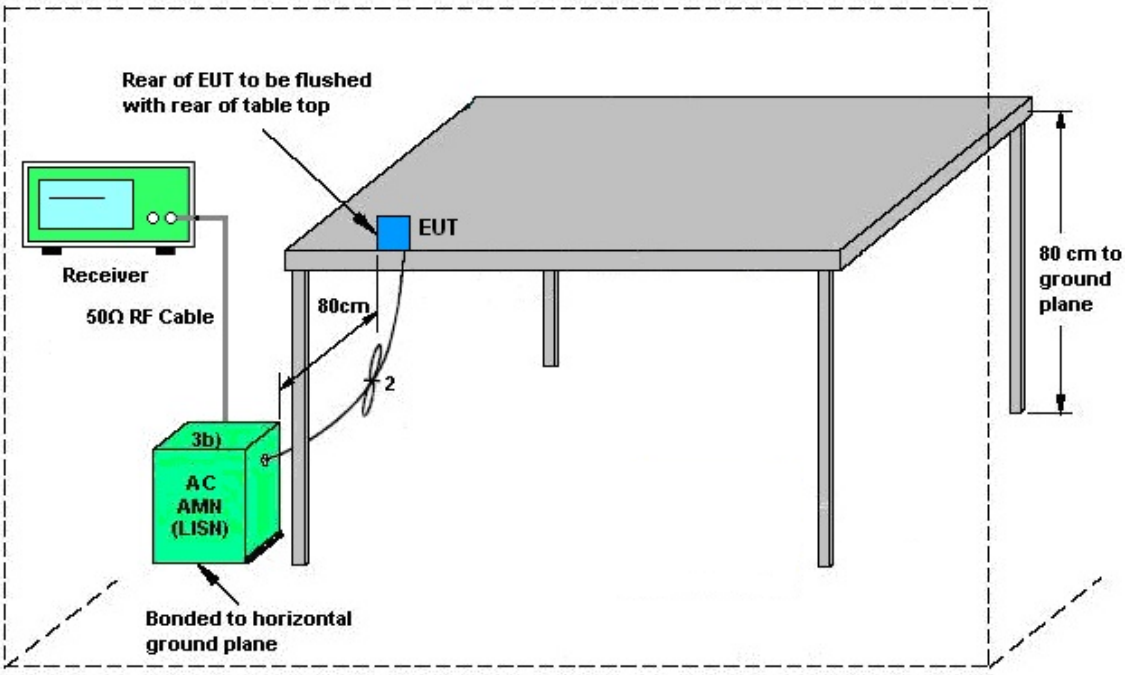
3.5.2 Measuring Instruments

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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<STBC Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)d)ii).

For PSD, the directional gain calculation is following F)2)d)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

<STBC Modes>

	Ant. 10 (dBi)	Ant. 11 (dBi)	Ant. 12 (dBi)	Ant. 13 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)
Band IV	2.90	3.70	3.20	3.50	3.70	3.70	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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 kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

					DG for Power	DG for PSD	Power Limit Reduction
	Ant 10 (dBi)	Ant 11 (dBi)	Ant 12 (dBi)	Ant 13 (dBi)	(dBi)	(dBi)	(dB)
Band IV	2.90	3.70	3.20	3.50	9.35	9.35	3.35

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

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	Jul. 14, 2020	Mar. 06, 2021~ Apr. 07, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	Mar. 06, 2021~ Apr. 07, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 29, 2020	Mar. 06, 2021~ Apr. 07, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~40GHz	May 22, 2020	Mar. 06, 2021~ Apr. 07, 2021	May 21, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	Mar. 06, 2021~ Apr. 07, 2021	Sep. 29, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845SE	980729	1-18GHz	Jul. 10, 2020	Mar. 06, 2021~ Apr. 07, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532702624	1GHz~26.5GHz	Dec. 10, 2020	Mar. 06, 2021~ Apr. 07, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY590530012	3Hz~26.5GHz	Nov. 18, 2020	Mar. 06, 2021~ Apr. 07, 2021	Nov. 17, 2021	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701118	10Hz~44GHz	Jan. 15, 2021	Mar. 06, 2021~ Apr. 07, 2021	Jan. 14, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 29, 2020	Mar. 06, 2021~ Apr. 07, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 29, 2020	Mar. 06, 2021~ Apr. 07, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 29, 2020	Mar. 06, 2021~ Apr. 07, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Mar. 06, 2021~ Apr. 07, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 06, 2021~ Apr. 07, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 06, 2021~ Apr. 07, 2021	N/A	Radiation (03CH16-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 10, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Mar. 10, 2021	Nov. 29, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Mar. 10, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 10, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Mar. 10, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	N/A	Mar. 10, 2021	N/A	Conduction (CO05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 16, 2020	Mar. 02, 2021~ Apr. 08, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Mar. 02, 2021~ Apr. 08, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Aug. 15, 2020	Mar. 02, 2021~ Apr. 08, 2021	Aug. 14, 2021	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.3**

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

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

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7**

Appendix A. Test Result of Conducted Test Items

Test Engineer	Eason Huang/Shiming Liu	Temperature	21.3~23.9	°C
Test Date	2021/3/2~2021/4/8	Relative Humidity	46.9~59.6	%

<STBC Mode>

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13																		
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
					Ant 10	Ant 11	Ant 12	Ant 13	Ant 10	Ant 11	Ant 12	Ant 13	Ant 10	Ant 11	Ant 12	Ant 13		
11a	6Mbps	4	149	5745	21.20	34.40	21.15	21.05	16.29	15.94	16.24	16.24	16.43	16.98	16.38	16.43	0.5	Pass
11a	6Mbps	4	157	5785	21.15	33.00	20.85	21.75	16.29	16.29	15.69	16.29	16.43	17.13	16.38	16.48	0.5	Pass
11a	6Mbps	4	165	5825	21.10	35.15	21.00	22.80	16.34	16.34	16.29	16.34	16.43	17.18	16.38	16.48	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
					Ant 10	Ant 11	Ant 12	Ant 13	SUM	Ant 10 + 11 + 12 + 13	Ant 10 + 11 + 12 + 13	
11a	6Mbps	4	149	5745	22.20	22.40	23.2	22.90	28.71	30.00	3.70	Pass
11a	6Mbps	4	157	5785	22.30	22.40	23.2	23.00	28.76	30.00	3.70	Pass
11a	6Mbps	4	165	5825	22.90	22.50	22.9	22.80	28.80	30.00	3.70	Pass
HT20	MCS0	4	149	5745	22.20	22.40	23.3	22.90	28.74	30.00	3.70	Pass
HT20	MCS0	4	157	5785	22.50	22.40	23.2	22.90	28.78	30.00	3.70	Pass
HT20	MCS0	4	165	5825	23.00	22.50	22.9	23.00	28.88	30.00	3.70	Pass
HT40	MCS0	4	151	5755	22.20	22.60	23.2	23.10	28.81	30.00	3.70	Pass
HT40	MCS0	4	159	5795	22.70	22.50	23.1	22.80	28.80	30.00	3.70	Pass
VHT20	MCS0	4	149	5745	22.10	22.30	23.2	22.80	28.64	30.00	3.70	Pass
VHT20	MCS0	4	157	5785	22.40	22.30	23.1	22.80	28.68	30.00	3.70	Pass
VHT20	MCS0	4	165	5825	22.90	22.40	22.8	22.90	28.78	30.00	3.70	Pass
VHT40	MCS0	4	151	5755	22.20	22.60	23.2	23.10	28.81	30.00	3.70	Pass
VHT40	MCS0	4	159	5795	22.70	22.50	23.1	22.80	28.80	30.00	3.70	Pass
VHT80	MCS0	4	155	5775	20.80	20.90	21.4	21.50	27.18	30.00	3.70	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
					Ant 10	Ant 11	Ant 12	Ant 13	SUM	Ant 10 + 11 + 12 + 13	Ant 10 + 11 + 12 + 13	
11a	6Mbps	4	149	5745	10.87	11.27	11.95	11.80	17.97	30.00	3.70	Pass
11a	6Mbps	4	157	5785	10.81	11.39	11.86	11.67	17.88	30.00	3.70	Pass
11a	6Mbps	4	165	5825	11.35	11.29	11.68	11.71	17.73	30.00	3.70	Pass

Note: PSD Sum = Max PSD(Ant. 10, Ant. 11, Ant. 12, Ant. 13) + 10 log (n)

Report Number : FR110616E

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13																			
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU tone	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
						Ant 10	Ant 11	Ant 12	Ant 13	Ant 10	Ant 11	Ant 12	Ant 13	Ant 10	Ant 11	Ant 12	Ant 13		
HE20	MCS0	4	149	5745	Full	22.75	37.45	23.00	23.10	18.94	18.93	18.59	18.94	18.93	19.28	18.88	18.93	0.5	Pass
HE20	MCS0	4	157	5785	Full	22.85	33.90	22.70	23.85	18.94	18.89	18.74	18.84	18.93	19.13	18.93	19.03	0.5	Pass
HE20	MCS0	4	165	5825	Full	22.65	33.40	23.40	24.80	19.04	18.84	18.94	18.94	18.93	19.18	19.03	18.98	0.5	Pass
HE40	MCS0	4	151	5755	Full	42.03	72.00	42.12	43.02	37.96	38.05	37.69	37.96	38.06	38.66	38.06	38.06	0.5	Pass
HE40	MCS0	4	159	5795	Full	41.85	71.19	42.57	42.21	38.05	37.78	38.05	37.87	38.06	38.46	38.06	38.06	0.5	Pass
HE80	MCS0	4	155	5775	Full	82.40	83.52	82.24	81.92	77.72	75.48	77.88	76.60	77.92	78.16	78.16	78.04	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU tone	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant 10	Ant 11	Ant 12	Ant 13	SUM	Ant 10 + 11 + 12 + 13	Ant 10 + 11 + 12 + 13	
HE20	MCS0	4	149	5745	Full	22.30	22.50	23.40	23.00	28.84	30.00	3.70	Pass
HE20	MCS0	4	149	5745	M	20.90	20.80	21.40	21.40	27.15	30.00	3.70	Pass
HE20	MCS0	4	149	5745	BE	20.40	20.80	20.80	21.20	26.83	30.00	3.70	Pass
HE20	MCS0	4	157	5785	Full	22.60	22.50	23.30	23.00	28.88	30.00	3.70	Pass
HE20	MCS0	4	157	5785	M	21.30	21.30	22.20	21.80	27.69	30.00	3.70	Pass
HE20	MCS0	4	157	5785	BE	20.30	20.30	21.40	20.70	26.72	30.00	3.70	Pass
HE20	MCS0	4	165	5825	Full	23.10	22.60	23.00	23.10	28.98	30.00	3.70	Pass
HE20	MCS0	4	165	5825	M	21.30	20.90	21.30	21.10	27.17	30.00	3.70	Pass
HE20	MCS0	4	165	5825	BE	20.90	20.40	20.90	20.70	26.75	30.00	3.70	Pass
HE40	MCS0	4	151	5755	Full	22.30	22.70	23.30	23.20	28.91	30.00	3.70	Pass
HE40	MCS0	4	151	5755	M	20.30	20.90	21.20	21.50	27.02	30.00	3.70	Pass
HE40	MCS0	4	151	5755	BE	20.20	20.40	21.20	21.50	26.88	30.00	3.70	Pass
HE40	MCS0	4	159	5795	Full	22.80	22.60	23.20	22.90	28.90	30.00	3.70	Pass
HE40	MCS0	4	159	5795	M	20.30	20.50	21.10	20.80	26.71	30.00	3.70	Pass
HE40	MCS0	4	159	5795	BE	20.70	20.50	21.00	21.30	26.91	30.00	3.70	Pass
HE80	MCS0	4	155	5775	Full	20.90	21.00	21.50	21.60	27.28	30.00	3.70	Pass
HE80	MCS0	4	155	5775	M	17.40	17.80	18.30	18.00	23.91	30.00	3.70	Pass
HE80	MCS0	4	155	5775	BE	18.00	18.40	18.60	18.60	24.43	30.00	3.70	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU tone	Average Power Density (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
						Ant 10	Ant 11	Ant 12	Ant 13	SUM	Ant 10 + 11 + 12 + 13	Ant 10 + 11 + 12 + 13	
HE20	MCS0	4	149	5745	Full	10.90	11.03	11.93	11.61	17.95	30.00	3.70	Pass
HE20	MCS0	4	149	5745	M	10.67	10.94	11.84	11.23	17.86	30.00	3.70	Pass
HE20	MCS0	4	149	5745	BE	10.73	10.93	11.60	11.39	17.62	30.00	3.70	Pass
HE20	MCS0	4	157	5785	Full	11.00	11.16	11.95	11.37	17.97	30.00	3.70	Pass
HE20	MCS0	4	157	5785	M	10.69	10.85	11.90	11.38	17.92	30.00	3.70	Pass
HE20	MCS0	4	157	5785	BE	10.62	10.67	11.59	11.30	17.61	30.00	3.70	Pass
HE20	MCS0	4	165	5825	Full	11.55	11.23	11.95	11.47	17.97	30.00	3.70	Pass
HE20	MCS0	4	165	5825	M	11.30	10.84	11.77	11.17	17.79	30.00	3.70	Pass
HE20	MCS0	4	165	5825	BE	11.41	10.93	11.69	11.25	17.71	30.00	3.70	Pass
HE40	MCS0	4	151	5755	Full	8.50	8.96	9.46	9.49	15.51	30.00	3.70	Pass
HE40	MCS0	4	151	5755	M	8.14	8.83	9.32	9.41	15.43	30.00	3.70	Pass
HE40	MCS0	4	151	5755	BE	8.27	8.74	9.30	9.34	15.36	30.00	3.70	Pass
HE40	MCS0	4	159	5795	Full	8.94	8.93	9.17	9.17	15.19	30.00	3.70	Pass
HE40	MCS0	4	159	5795	M	8.58	8.46	8.86	8.68	14.88	30.00	3.70	Pass
HE40	MCS0	4	159	5795	BE	8.54	8.74	8.86	8.94	14.96	30.00	3.70	Pass
HE80	MCS0	4	155	5775	Full	4.60	4.52	4.98	5.11	11.13	30.00	3.70	Pass
HE80	MCS0	4	155	5775	M	2.28	3.12	3.90	3.47	9.92	30.00	3.70	Pass
HE80	MCS0	4	155	5775	BE	2.53	2.91	3.18	2.87	9.20	30.00	3.70	Pass

Note: PSD Sum = Max PSD(Ant. 10, Ant. 11, Ant. 12, Ant. 13) + 10 log (n)

<TXBF Mode>

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
					Ant 10	Ant 11	Ant 12	Ant 13	SUM	Ant 10 + 11 + 12 + 13	Ant 10 + 11 + 12 + 13	
VHT20	MCS0	4	149	5745	17.00	17.70	17.9	17.50	23.56	26.65	9.35	Pass
VHT20	MCS0	4	157	5785	18.80	18.80	19.4	19.10	25.05	26.65	9.35	Pass
VHT20	MCS0	4	165	5825	17.80	17.40	18.3	17.20	23.72	26.65	9.35	Pass
VHT40	MCS0	4	151	5755	17.50	17.90	18.8	18.40	24.20	26.65	9.35	Pass
VHT40	MCS0	4	159	5795	17.70	17.80	18.6	18.00	24.06	26.65	9.35	Pass
VHT80	MCS0	4	155	5775	17.30	17.90	18.4	18.10	23.96	26.65	9.35	Pass

Report Number : FR110616E

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13																			
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
						Ant 10	Ant 11	Ant 12	Ant 13	Ant 10	Ant 11	Ant 12	Ant 13	Ant 10	Ant 11	Ant 12	Ant 13		
HE20	MCS0	4	149	5745	Full	24.95	24.20	24.40	24.10	19.09	19.04	18.69	18.84	19.08	19.08	19.08	19.08	0.5	Pass
HE20	MCS0	4	157	5785	Full	25.05	25.05	24.80	24.80	18.94	19.04	18.99	18.99	19.08	19.13	19.13	19.08	0.5	Pass
HE20	MCS0	4	165	5825	Full	25.70	24.35	25.35	26.00	19.14	19.09	19.09	19.04	19.18	19.18	19.13	19.13	0.5	Pass
HE40	MCS0	4	151	5755	Full	45.27	49.05	45.72	44.91	38.14	38.05	38.05	37.42	38.46	38.16	38.56	38.46	0.5	Pass
HE40	MCS0	4	159	5795	Full	46.80	45.27	45.27	45.90	38.05	37.78	37.69	37.51	38.76	38.46	38.26	38.16	0.5	Pass
HE80	MCS0	4	155	5775	Full	84.80	84.16	82.56	84.48	75.96	75.64	76.44	76.28	78.76	78.16	78.52	78.52	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant 10	Ant 11	Ant 12	Ant 13	SUM	Ant 10 + 11 + 12 + 13	Ant 10 + 11 + 12 + 13	
HE20	MCS0	4	149	5745	Full	17.10	17.80	18.00	17.60	23.66	26.65	9.35	Pass
HE20	MCS0	4	157	5785	Full	18.90	18.90	19.50	19.20	25.15	26.65	9.35	Pass
HE20	MCS0	4	165	5825	Full	17.90	17.50	18.40	17.30	23.82	26.65	9.35	Pass
HE40	MCS0	4	151	5755	Full	17.60	18.00	18.90	18.50	24.30	26.65	9.35	Pass
HE40	MCS0	4	159	5795	Full	17.80	17.90	18.70	18.10	24.16	26.65	9.35	Pass
HE80	MCS0	4	155	5775	Full	17.40	18.00	18.50	18.20	24.06	26.65	9.35	Pass

Note: PSD Sum = Max PSD(Ant. 10, Ant. 11, Ant. 12, Ant. 13) + 10 log (n)

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode Ant 10 + 11 + 12 + 13													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
						Ant 10	Ant 11	Ant 12	Ant 13	SUM	Ant 10 + 11 + 12 + 13	Ant 10 + 11 + 12 + 13	
HE20	MCS0	4	149	5745	Full	6.66	7.04	6.64	6.44	13.06	26.65	9.35	Pass
HE20	MCS0	4	157	5785	Full	8.33	8.04	8.77	8.61	14.79	26.65	9.35	Pass
HE20	MCS0	4	165	5825	Full	5.90	6.37	6.90	6.06	12.92	26.65	9.35	Pass
HE40	MCS0	4	151	5755	Full	3.08	3.61	4.89	4.27	10.91	26.65	9.35	Pass
HE40	MCS0	4	159	5795	Full	3.54	3.61	4.70	3.94	10.72	26.65	9.35	Pass
HE80	MCS0	4	155	5775	Full	3.89	4.40	5.57	4.16	11.59	26.65	9.35	Pass

Note: PSD Sum = Max PSD(Ant. 10, Ant. 11, Ant. 12, Ant. 13) + 10 log (n)

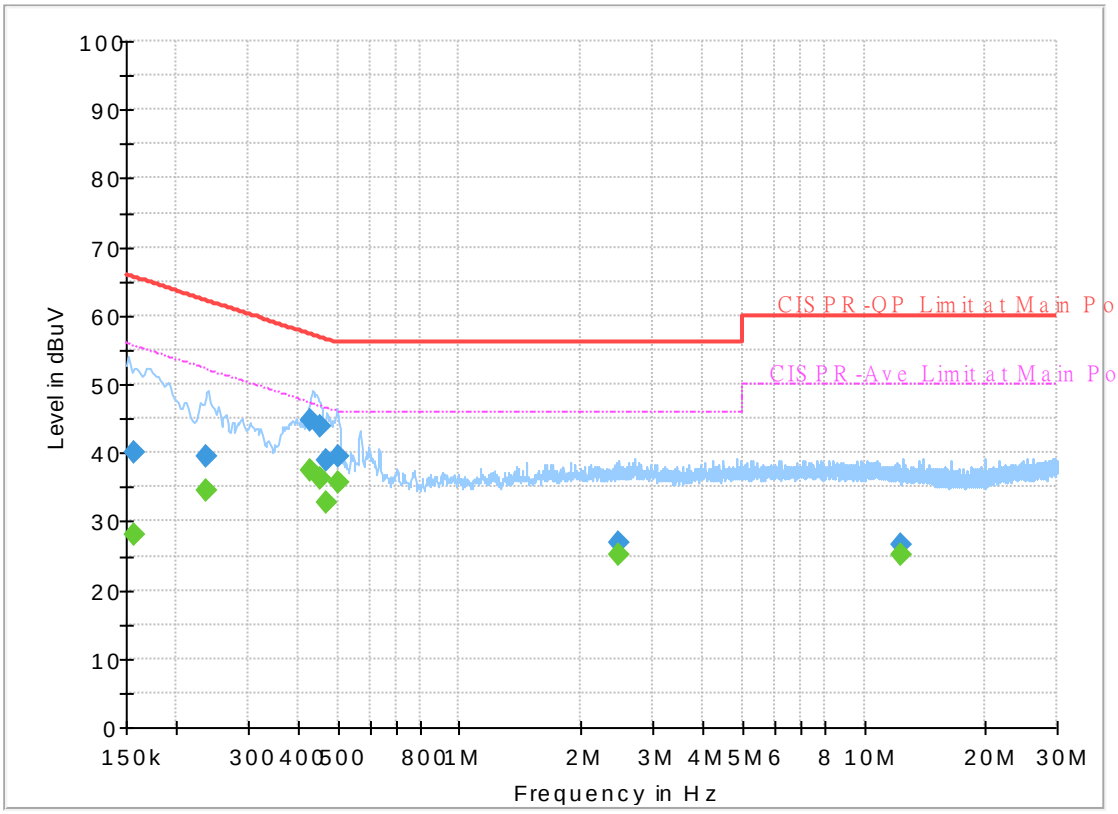
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	110616
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



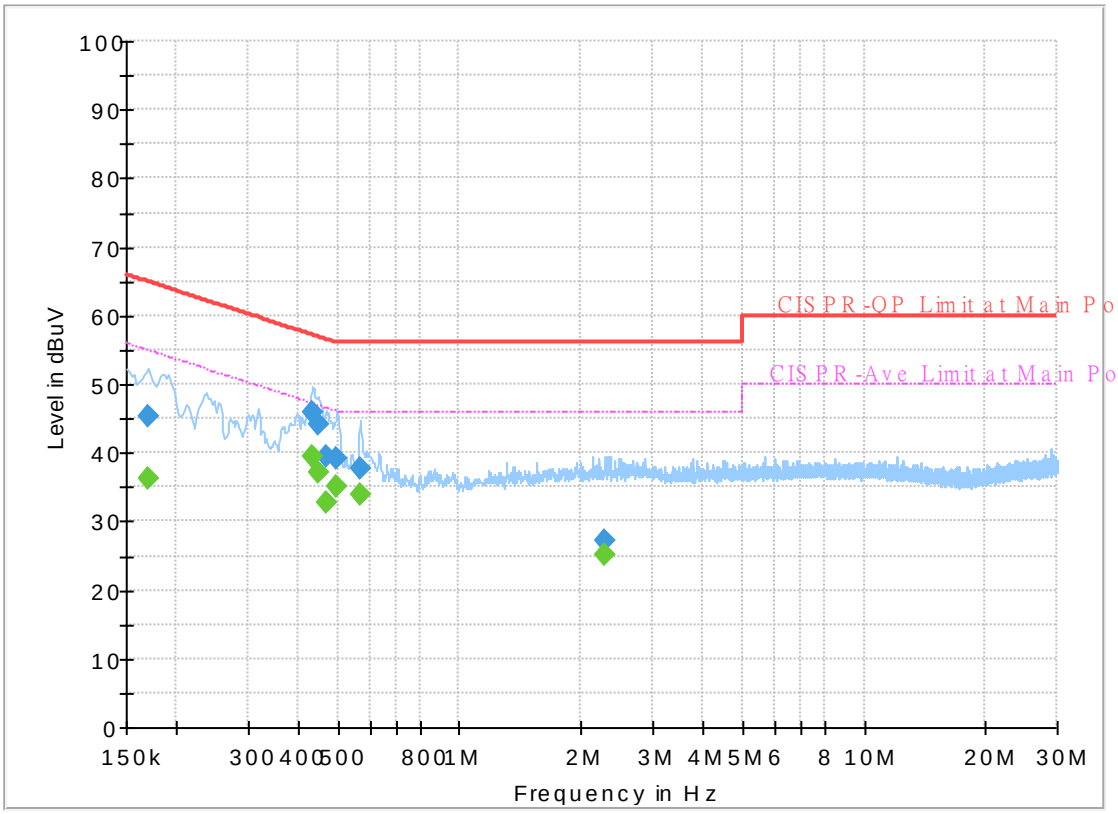
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	28.14	55.63	27.49	L1	OFF	19.7
0.156750	40.19	---	65.63	25.44	L1	OFF	19.7
0.236850	---	34.43	52.21	17.78	L1	OFF	19.7
0.236850	39.62	---	62.21	22.59	L1	OFF	19.7
0.429000	---	37.42	47.27	9.85	L1	OFF	19.8
0.429000	44.81	---	57.27	12.46	L1	OFF	19.8
0.451500	---	36.32	46.85	10.53	L1	OFF	19.8
0.451500	43.80	---	56.85	13.05	L1	OFF	19.8
0.469860	---	32.74	46.52	13.78	L1	OFF	19.8
0.469860	38.92	---	56.52	17.60	L1	OFF	19.8
0.500280	---	35.82	46.00	10.18	L1	OFF	19.9
0.500280	39.46	---	56.00	16.54	L1	OFF	19.9
2.472000	---	25.04	46.00	20.96	L1	OFF	20.2
2.472000	27.03	---	56.00	28.97	L1	OFF	20.2
12.338250	---	25.29	50.00	24.71	L1	OFF	20.3
12.338250	26.55	---	60.00	33.45	L1	OFF	20.3

EUT Information

Report NO :	110616
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170250	---	36.37	54.95	18.58	N	OFF	19.7
0.170250	45.28	---	64.95	19.67	N	OFF	19.7
0.433500	---	39.53	47.19	7.66	N	OFF	19.8
0.433500	45.79	---	57.19	11.40	N	OFF	19.8
0.449250	---	37.23	46.89	9.66	N	OFF	19.8
0.449250	44.07	---	56.89	12.82	N	OFF	19.8
0.469500	---	32.76	46.52	13.76	N	OFF	19.9
0.469500	39.35	---	56.52	17.17	N	OFF	19.9
0.498750	---	35.02	46.02	11.00	N	OFF	19.9
0.498750	39.24	---	56.02	16.78	N	OFF	19.9
0.568500	---	34.05	46.00	11.95	N	OFF	20.0
0.568500	37.77	---	56.00	18.23	N	OFF	20.0
2.296500	---	25.08	46.00	20.92	N	OFF	20.2
2.296500	27.08	---	56.00	28.92	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

<STBC Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
10+11+12+13		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5616.2	57.35	-10.85	68.2	41.8	31.67	13.65	29.77	102	25	P	H
		5692	61.85	-37.45	99.3	46.25	31.68	13.72	29.8	102	25	P	H
		5720	73.04	-37.76	110.8	57.28	31.82	13.75	29.81	102	25	P	H
		5724.8	79.33	-42.41	121.74	63.55	31.85	13.75	29.82	102	25	P	H
	*	5745	124.33	-	-	108.41	31.97	13.77	29.82	102	25	P	H
	*	5745	117.77	-	-	101.85	31.97	13.77	29.82	102	25	A	H
													H
													H
		5641.4	55.69	-12.51	68.2	40.17	31.62	13.68	29.78	102	329	P	V
		5697.8	61.1	-42.48	103.58	45.48	31.7	13.73	29.81	102	329	P	V
		5718	74.71	-35.53	110.24	58.96	31.81	13.75	29.81	102	329	P	V
		5724.2	75.83	-44.55	120.38	60.05	31.85	13.75	29.82	102	329	P	V
	*	5745	121.61	-	-	105.69	31.97	13.77	29.82	102	329	P	V
	*	5745	114.68	-	-	98.76	31.97	13.77	29.82	102	329	A	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5635.8	57.57	-10.63	68.2	42.05	31.63	13.67	29.78	103	26	P	H
		5684.8	58.81	-35.18	93.99	43.22	31.67	13.72	29.8	103	26	P	H
		5703.4	58.22	-47.93	106.15	42.58	31.72	13.73	29.81	103	26	P	H
		5722.2	57.82	-58	115.82	42.05	31.83	13.75	29.81	103	26	P	H
	*	5785	125.09	-	-	109.12	32	13.81	29.84	103	26	P	H
	*	5785	118	-	-	102.03	32	13.81	29.84	103	26	A	H
		5851.2	56.03	-63.43	119.46	39.98	32.1	13.81	29.86	103	26	P	H
		5866.2	55.88	-51.78	107.66	39.81	32.13	13.81	29.87	103	26	P	H
		5880.4	59.05	-42.14	101.19	42.95	32.16	13.81	29.87	103	26	P	H
		5928	55.65	-12.55	68.2	39.47	32.26	13.81	29.89	103	26	P	H
													H
													H
		5633.4	56.65	-11.55	68.2	41.13	31.63	13.67	29.78	113	329	P	V
		5692.6	56.67	-43.07	99.74	41.06	31.69	13.72	29.8	113	329	P	V
		5716.6	55.42	-54.43	109.85	39.69	31.8	13.74	29.81	113	329	P	V
		5722	55.67	-59.69	115.36	39.9	31.83	13.75	29.81	113	329	P	V
	*	5785	122.1	-	-	106.13	32	13.81	29.84	113	329	P	V
	*	5785	114.8	-	-	98.83	32	13.81	29.84	113	329	A	V
		5852.4	54.06	-62.67	116.73	38.01	32.1	13.81	29.86	113	329	P	V
		5871.6	55.15	-51	106.15	39.07	32.14	13.81	29.87	113	329	P	V
		5883	54.88	-44.38	99.26	38.78	32.17	13.81	29.88	113	329	P	V
		5941.8	55.99	-12.21	68.2	39.8	32.28	13.81	29.9	113	329	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	124.97	-	-	108.95	32.05	13.82	29.85	102	27	P	H
	*	5825	117.92	-	-	101.9	32.05	13.82	29.85	102	27	A	H
		5850.2	76.11	-45.63	121.74	60.06	32.1	13.81	29.86	102	27	P	H
		5855.2	71.15	-39.59	110.74	55.09	32.11	13.81	29.86	102	27	P	H
		5877.6	59.45	-43.82	103.27	43.35	32.16	13.81	29.87	102	27	P	H
		5925.2	56.2	-12	68.2	40.03	32.25	13.81	29.89	102	27	P	H
													H
802.11a													H
CH 165	*	5825	122.58	-	-	106.56	32.05	13.82	29.85	100	320	P	V
5825MHz	*	5825	115.4	-	-	99.38	32.05	13.82	29.85	100	320	A	V
		5854	68.63	-44.45	113.08	52.57	32.11	13.81	29.86	100	320	P	V
		5855.4	68.29	-42.4	110.69	52.24	32.11	13.81	29.87	100	320	P	V
		5884.4	56.88	-41.34	98.22	40.78	32.17	13.81	29.88	100	320	P	V
		5934.4	55.86	-12.34	68.2	39.68	32.27	13.81	29.9	100	320	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	55.95	-18.05	74	51.44	39.91	20.11	55.51	209	275	P	H
		11490	47.82	-6.18	54	43.31	39.91	20.11	55.51	209	275	A	H
		17235	54.08	-14.12	68.2	44.75	40.9	25.16	56.73	100	0	P	H
		17945	59.05	-14.95	74	42.75	48.15	25.43	57.28	100	0	P	H
		17945	48.87	-5.13	54	32.57	48.15	25.43	57.28	100	0	A	H
		11490	55	-19	74	50.49	39.91	20.11	55.51	250	349	P	V
		11490	46.71	-7.29	54	42.2	39.91	20.11	55.51	250	349	A	V
		17235	54.71	-13.49	68.2	45.38	40.9	25.16	56.73	100	0	P	V
		17956	59.13	-14.87	74	42.59	48.38	25.44	57.28	100	0	P	V
		17956	49.41	-4.59	54	32.87	48.38	25.44	57.28	100	0	A	V
802.11a CH 157 5785MHz		11570	55.35	-18.65	74	50.85	39.76	20.18	55.44	211	277	P	H
		11570	47.34	-6.66	54	42.84	39.76	20.18	55.44	211	277	A	H
		17355	56.06	-12.14	68.2	46.15	41.6	25.21	56.9	100	0	P	H
		17956	59.11	-14.89	74	42.57	48.38	25.44	57.28	100	0	P	H
		17956	49.54	-4.46	54	33	48.38	25.44	57.28	100	0	A	H
		11570	55.98	-18.02	74	51.48	39.76	20.18	55.44	249	348	P	V
		11570	46.82	-7.18	54	42.32	39.76	20.18	55.44	249	348	A	V
		17355	54.29	-13.91	68.2	44.38	41.6	25.21	56.9	100	0	P	V
		17956	59.31	-14.69	74	42.77	48.38	25.44	57.28	100	0	P	V
		17956	49.33	-4.67	54	32.79	48.38	25.44	57.28	100	0	A	V

802.11a CH 165 5825MHz		11650	55.65	-18.35	74	51.25	39.55	20.23	55.38	193	253	P	H
		11650	47.32	-6.68	54	42.92	39.55	20.23	55.38	193	253	A	H
		17475	53.31	-14.89	68.2	42.67	42.45	25.25	57.06	100	0	P	H
		17967	59.67	-14.33	74	42.91	48.61	25.44	57.29	100	0	P	H
		17967	49.6	-4.4	54	32.84	48.61	25.44	57.29	100	0	A	H
		11650	58.4	-15.6	74	54	39.55	20.23	55.38	252	352	P	V
		11650	48.55	-5.45	54	44.15	39.55	20.23	55.38	252	352	A	V
		17475	53.16	-15.04	68.2	42.52	42.45	25.25	57.06	100	0	P	V
		17967	59.35	-14.65	74	42.59	48.61	25.44	57.29	100	0	P	V
		17967	49.7	-4.3	54	32.94	48.61	25.44	57.29	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_FUll (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.8	58.61	-9.59	68.2	43.1	31.61	13.68	29.78	101	28	P	H
		5698.8	65.11	-39.21	104.32	49.49	31.7	13.73	29.81	101	28	P	H
		5719.6	79.3	-31.39	110.69	63.54	31.82	13.75	29.81	101	28	P	H
		5723.4	83.3	-35.25	118.55	67.52	31.84	13.75	29.81	101	28	P	H
	*	5745	125.21	-	-	109.29	31.97	13.77	29.82	101	28	P	H
	*	5745	117.32	-	-	101.4	31.97	13.77	29.82	101	28	A	H
802.11ax													H
HE20													H
CH 149		5650	55.59	-12.61	68.2	40.09	31.6	13.69	29.79	100	251	P	V
5745MHz		5700	60.15	-45.05	105.2	44.53	31.7	13.73	29.81	100	251	P	V
		5719.4	74.93	-35.7	110.63	59.17	31.82	13.75	29.81	100	251	P	V
		5722	77.25	-38.11	115.36	61.48	31.83	13.75	29.81	100	251	P	V
	*	5745	123.79	-	-	107.87	31.97	13.77	29.82	100	251	P	V
	*	5745	114.49	-	-	98.57	31.97	13.77	29.82	100	251	A	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5640.2	57.37	-10.83	68.2	41.85	31.62	13.68	29.78	100	215	P	H
		5687.4	60.15	-35.76	95.91	44.56	31.67	13.72	29.8	100	215	P	H
		5717.6	57.45	-52.68	110.13	41.7	31.81	13.75	29.81	100	215	P	H
		5724	60.3	-59.62	119.92	44.53	31.84	13.75	29.82	100	215	P	H
	*	5785	125.24	-	-	109.27	32	13.81	29.84	100	215	P	H
	*	5785	116.09	-	-	100.12	32	13.81	29.84	100	215	A	H
		5850.6	55.12	-65.71	120.83	39.07	32.1	13.81	29.86	100	215	P	H
		5855.6	56.16	-54.47	110.63	40.11	32.11	13.81	29.87	100	215	P	H
		5882.2	57.91	-41.94	99.85	41.82	32.16	13.81	29.88	100	215	P	H
		5930.8	55.41	-12.79	68.2	39.23	32.26	13.81	29.89	100	215	P	H
802.11ax													H
HE20													H
CH 157		5611.2	55.52	-12.68	68.2	39.96	31.68	13.65	29.77	100	329	P	V
5785MHz		5691.8	57.26	-41.89	99.15	41.66	31.68	13.72	29.8	100	329	P	V
		5715	56.58	-52.82	109.4	40.86	31.79	13.74	29.81	100	329	P	V
		5725	57.77	-64.43	122.2	41.99	31.85	13.75	29.82	100	329	P	V
	*	5785	123.89	-	-	107.92	32	13.81	29.84	100	329	P	V
	*	5785	114.34	-	-	98.37	32	13.81	29.84	100	329	A	V
		5855	54.89	-55.91	110.8	38.83	32.11	13.81	29.86	100	329	P	V
		5859.6	55.72	-53.79	109.51	39.66	32.12	13.81	29.87	100	329	P	V
		5892.4	55.99	-36.3	92.29	39.88	32.18	13.81	29.88	100	329	P	V
		5940	55.88	-12.32	68.2	39.69	32.28	13.81	29.9	100	329	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	126.11	-	-	110.09	32.05	13.82	29.85	123	193	P	H
	*	5825	115.86	-	-	99.84	32.05	13.82	29.85	123	193	A	H
		5851.8	78.35	-39.75	118.1	62.3	32.1	13.81	29.86	123	193	P	H
		5855	75.56	-35.24	110.8	59.5	32.11	13.81	29.86	123	193	P	H
		5882.2	62.62	-37.23	99.85	46.53	32.16	13.81	29.88	123	193	P	H
		5935	57.84	-10.36	68.2	41.66	32.27	13.81	29.9	123	193	P	H
802.11ax													H
HE20													H
CH 165	*	5825	123.27	-	-	107.25	32.05	13.82	29.85	105	319	P	V
5825MHz	*	5825	113.98	-	-	97.96	32.05	13.82	29.85	105	319	A	V
		5850	78.18	-44.02	122.2	62.13	32.1	13.81	29.86	105	319	P	V
		5858	72.88	-37.08	109.96	56.82	32.12	13.81	29.87	105	319	P	V
		5878.4	63.24	-39.43	102.67	47.14	32.16	13.81	29.87	105	319	P	V
		5934	56.58	-11.62	68.2	40.39	32.27	13.81	29.89	105	319	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 CH 149 5745MHz		11490	57.98	-16.02	74	53.47	39.91	20.11	55.51	209	275	P	H
		11490	48.06	-5.94	54	43.55	39.91	20.11	55.51	209	275	A	H
		17235	54.65	-13.55	68.2	45.32	40.9	25.16	56.73	100	0	P	H
		17989	58.98	-15.02	74	41.76	49.07	25.45	57.3	100	0	P	H
		17989	47.61	-6.39	54	30.39	49.07	25.45	57.3	100	0	A	H
		11490	56.23	-17.77	74	51.72	39.91	20.11	55.51	255	305	P	V
		11490	46.98	-7.02	54	42.47	39.91	20.11	55.51	255	305	A	V
		17235	52.43	-15.77	68.2	43.1	40.9	25.16	56.73	100	0	P	V
		17989	59.73	-14.27	74	42.51	49.07	25.45	57.3	100	0	P	V
		17989	47.57	-6.43	54	30.35	49.07	25.45	57.3	100	0	A	V
802.11ax HE20 CH 157 5785MHz		11570	58.34	-15.66	74	53.84	39.76	20.18	55.44	210	276	P	H
		11570	48.62	-5.38	54	44.12	39.76	20.18	55.44	210	276	A	H
		17355	55.78	-12.42	68.2	45.87	41.6	25.21	56.9	100	0	P	H
		17989	59.35	-14.65	74	42.13	49.07	25.45	57.3	100	0	P	H
		17989	47.64	-6.36	54	30.42	49.07	25.45	57.3	100	0	A	H
		11570	58.02	-15.98	74	53.52	39.76	20.18	55.44	244	306	P	V
		11570	48.57	-5.43	54	44.07	39.76	20.18	55.44	244	306	A	V
		17355	54.17	-14.03	68.2	44.26	41.6	25.21	56.9	100	0	P	V
		17989	59.68	-14.32	74	42.46	49.07	25.45	57.3	100	0	P	V
		17989	47.75	-6.25	54	30.53	49.07	25.45	57.3	100	0	A	V

802.11ax HE20 CH 165 5825MHz		11650	59.69	-14.31	74	55.29	39.55	20.23	55.38	210	278	P	H
		11650	48.97	-5.03	54	44.57	39.55	20.23	55.38	210	278	A	H
		17475	53.69	-14.51	68.2	43.05	42.45	25.25	57.06	100	0	P	H
		17989	59.72	-14.28	74	42.5	49.07	25.45	57.3	100	0	P	H
		17989	47.63	-6.37	54	30.41	49.07	25.45	57.3	100	0	A	H
		11650	58.62	-15.38	74	54.22	39.55	20.23	55.38	254	305	P	V
		11650	49.78	-4.22	54	45.38	39.55	20.23	55.38	254	305	A	V
		17475	55.92	-12.28	68.2	45.28	42.45	25.25	57.06	100	0	P	V
		17989	59.14	-14.86	74	41.92	49.07	25.45	57.3	100	0	P	V
		17989	47.7	-6.3	54	30.48	49.07	25.45	57.3	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_ M unmod tone (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5602.8	59.72	-8.48	68.2	44.16	31.69	13.64	29.77	100	27	P	H
		5699.4	75.68	-29.08	104.76	60.06	31.7	13.73	29.81	100	27	P	H
		5720	87.37	-23.43	110.8	71.61	31.82	13.75	29.81	100	27	P	H
		5724.8	94.98	-26.76	121.74	79.2	31.85	13.75	29.82	100	27	P	H
	*	5745	125.2	-	-	109.28	31.97	13.77	29.82	100	27	P	H
802.11ax	*	5745	118.55	-	-	102.63	31.97	13.77	29.82	100	27	A	H
HE20													H
M unmod													H
tone		5626	59.39	-8.81	68.2	43.86	31.65	13.66	29.78	104	106	P	V
CH 149		5698.4	72.22	-31.8	104.02	56.6	31.7	13.73	29.81	104	106	P	V
5745MHz		5711.8	82.89	-25.62	108.51	67.19	31.77	13.74	29.81	104	106	P	V
		5723.8	94.57	-24.89	119.46	78.8	31.84	13.75	29.82	104	106	P	V
	*	5745	121.91	-	-	105.99	31.97	13.77	29.82	104	106	P	V
	*	5745	114.19	-	-	98.27	31.97	13.77	29.82	104	106	A	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.2	60.12	-8.08	68.2	44.63	31.6	13.68	29.79	107	21	P	H
		5699.2	66.35	-38.26	104.61	50.73	31.7	13.73	29.81	107	21	P	H
		5711.2	73.21	-35.13	108.34	57.51	31.77	13.74	29.81	107	21	P	H
		5724	76.51	-43.41	119.92	60.74	31.84	13.75	29.82	107	21	P	H
	*	5785	126.01	-	-	110.04	32	13.81	29.84	107	21	P	H
	*	5785	119.61	-	-	103.64	32	13.81	29.84	107	21	A	H
		5854.2	69.12	-43.5	112.62	53.06	32.11	13.81	29.86	107	21	P	H
		5855.6	68.74	-41.89	110.63	52.69	32.11	13.81	29.87	107	21	P	H
		5877.8	63.1	-40.02	103.12	47	32.16	13.81	29.87	107	21	P	H
802.11ax		5933.6	57.5	-10.7	68.2	41.31	32.27	13.81	29.89	107	21	P	H
HE20													H
M unmod													H
tone		5635.2	58.02	-10.18	68.2	42.5	31.63	13.67	29.78	102	105	P	V
CH 157		5664.4	61.52	-17.37	78.89	45.98	31.63	13.7	29.79	102	105	P	V
5785MHz		5719	68.17	-42.35	110.52	52.42	31.81	13.75	29.81	102	105	P	V
		5722.4	67.88	-48.39	116.27	52.11	31.83	13.75	29.81	102	105	P	V
	*	5785	121.72	-	-	105.75	32	13.81	29.84	102	105	P	V
	*	5785	114.63	-	-	98.66	32	13.81	29.84	102	105	A	V
		5850.6	68.99	-51.84	120.83	52.94	32.1	13.81	29.86	102	105	P	V
		5856.2	65.94	-44.52	110.46	49.89	32.11	13.81	29.87	102	105	P	V
		5880.8	59.54	-41.35	100.89	43.44	32.16	13.81	29.87	102	105	P	V
		5949.8	56.77	-11.43	68.2	40.56	32.3	13.81	29.9	102	105	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 M unmod tone CH 165 5825MHz	*	5825	123.64	-	-	107.62	32.05	13.82	29.85	100	23	P	H
	*	5825	115.88	-	-	99.86	32.05	13.82	29.85	100	23	A	H
		5850	90.95	-31.25	122.2	74.9	32.1	13.81	29.86	100	23	P	H
		5857.6	83.53	-26.54	110.07	67.47	32.12	13.81	29.87	100	23	P	H
		5877.2	70.76	-32.81	103.57	54.67	32.15	13.81	29.87	100	23	P	H
		5925.6	58.31	-9.89	68.2	42.14	32.25	13.81	29.89	100	23	P	H
													H
													H
	*	5825	124.38	-	-	108.36	32.05	13.82	29.85	100	122	P	V
	*	5825	117.02	-	-	101	32.05	13.82	29.85	100	122	A	V
		5850	88.11	-34.09	122.2	72.06	32.1	13.81	29.86	100	122	P	V
		5857.8	81.09	-28.92	110.01	65.03	32.12	13.81	29.87	100	122	P	V
		5875	69	-36.2	105.2	52.91	32.15	13.81	29.87	100	122	P	V
		5947.4	59.24	-8.96	68.2	43.04	32.29	13.81	29.9	100	122	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_ BE unmod tone (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649.2	59.76	-8.44	68.2	44.27	31.6	13.68	29.79	100	20	P	H
		5697.4	60.62	-42.66	103.28	45.01	31.69	13.73	29.81	100	20	P	H
		5716.2	76.78	-32.96	109.74	61.05	31.8	13.74	29.81	100	20	P	H
		5722.8	76.53	-40.65	117.18	60.75	31.84	13.75	29.81	100	20	P	H
	*	5745	125.94	-	-	110.02	31.97	13.77	29.82	100	20	P	H
802.11ax	*	5745	118.2	-	-	102.28	31.97	13.77	29.82	100	20	A	H
HE20													H
BE unmod													H
tone		5625	60.06	-8.14	68.2	44.53	31.65	13.66	29.78	100	118	P	V
CH 149		5689	58.42	-38.67	97.09	42.82	31.68	13.72	29.8	100	118	P	V
5745MHz		5717.6	68.6	-41.53	110.13	52.85	31.81	13.75	29.81	100	118	P	V
		5723	73.82	-43.82	117.64	58.04	31.84	13.75	29.81	100	118	P	V
	*	5745	122.97	-	-	107.05	31.97	13.77	29.82	100	118	P	V
	*	5745	114.89	-	-	98.97	31.97	13.77	29.82	100	118	A	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5600.2	59.06	-9.14	68.2	43.49	31.7	13.64	29.77	106	18	P	H
		5692.2	58.62	-40.83	99.45	43.02	31.68	13.72	29.8	106	18	P	H
		5718.6	59	-51.41	110.41	43.25	31.81	13.75	29.81	106	18	P	H
		5721	61.48	-51.6	113.08	45.71	31.83	13.75	29.81	106	18	P	H
	*	5785	126.15	-	-	110.18	32	13.81	29.84	106	18	P	H
	*	5785	117.95	-	-	101.98	32	13.81	29.84	106	18	A	H
		5850.8	58.62	-61.76	120.38	42.57	32.1	13.81	29.86	106	18	P	H
		5872.4	56.83	-49.1	105.93	40.75	32.14	13.81	29.87	106	18	P	H
		5898	57.46	-30.68	88.14	41.33	32.2	13.81	29.88	106	18	P	H
802.11ax HE20 BE unmod tone CH 157 5785MHz		5937.6	56.85	-11.35	68.2	40.66	32.28	13.81	29.9	106	18	P	H
													H
													H
		5625	57.7	-10.5	68.2	42.17	31.65	13.66	29.78	102	103	P	V
		5693	58.54	-41.5	100.04	42.93	31.69	13.72	29.8	102	103	P	V
		5707	58.8	-48.36	107.16	43.13	31.74	13.74	29.81	102	103	P	V
		5723.2	57.45	-60.65	118.1	41.67	31.84	13.75	29.81	102	103	P	V
	*	5785	122.65	-	-	106.68	32	13.81	29.84	102	103	P	V
	*	5785	114.37	-	-	98.4	32	13.81	29.84	102	103	A	V
		5852.2	56.86	-60.32	117.18	40.81	32.1	13.81	29.86	102	103	P	V
		5855.4	56.43	-54.26	110.69	40.38	32.11	13.81	29.87	102	103	P	V
		5883.4	56.36	-42.6	98.96	40.26	32.17	13.81	29.88	102	103	P	V
		5927.8	56.66	-11.54	68.2	40.48	32.26	13.81	29.89	102	103	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 BE unmod tone CH 165 5825MHz	*	5825	123.47	-	-	107.45	32.05	13.82	29.85	102	28	P	H
	*	5825	115.81	-	-	99.79	32.05	13.82	29.85	102	28	A	H
		5855	72.62	-38.18	110.8	56.56	32.11	13.81	29.86	102	28	P	H
		5855.2	72.71	-38.03	110.74	56.65	32.11	13.81	29.86	102	28	P	H
		5879.4	59.12	-42.81	101.93	43.02	32.16	13.81	29.87	102	28	P	H
		5945	56.97	-11.23	68.2	40.77	32.29	13.81	29.9	102	28	P	H
													H
													H
	*	5825	126.11	-	-	110.09	32.05	13.82	29.85	101	120	P	V
	*	5825	117.67	-	-	101.65	32.05	13.82	29.85	101	120	A	V
		5850.8	73.12	-47.26	120.38	57.07	32.1	13.81	29.86	101	120	P	V
		5859	70.98	-38.7	109.68	54.92	32.12	13.81	29.87	101	120	P	V
		5895	58.52	-31.84	90.36	42.4	32.19	13.81	29.88	101	120	P	V
		5926.2	57.38	-10.82	68.2	41.21	32.25	13.81	29.89	101	120	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5647.2	60.22	-7.98	68.2	44.72	31.61	13.68	29.79	117	24	P	H
		5699.8	72.84	-32.21	105.05	57.22	31.7	13.73	29.81	117	24	P	H
		5719.6	86.86	-23.83	110.69	71.1	31.82	13.75	29.81	117	24	P	H
		5720.8	88.8	-23.82	112.62	73.04	31.82	13.75	29.81	117	24	P	H
	*	5755	123.13	-	-	107.18	32	13.78	29.83	117	24	P	H
	*	5755	113.99	-	-	98.04	32	13.78	29.83	117	24	A	H
		5850.6	57.85	-62.98	120.83	41.8	32.1	13.81	29.86	117	24	P	H
		5856.6	59.44	-50.91	110.35	43.39	32.11	13.81	29.87	117	24	P	H
		5897.8	57.76	-30.53	88.29	41.63	32.2	13.81	29.88	117	24	P	H
		5926.8	55.78	-12.42	68.2	39.61	32.25	13.81	29.89	117	24	P	H
802.11ax													H
HE40 Full													H
CH 151		5634.8	62.48	-5.72	68.2	46.96	31.63	13.67	29.78	100	110	P	V
5755MHz		5691.6	69.8	-29.21	99.01	54.2	31.68	13.72	29.8	100	110	P	V
		5712.4	81.1	-27.57	108.67	65.4	31.77	13.74	29.81	100	110	P	V
		5725	79.91	-42.29	122.2	64.13	31.85	13.75	29.82	100	110	P	V
	*	5755	122.42	-	-	106.47	32	13.78	29.83	100	110	P	V
	*	5755	112.93	-	-	96.98	32	13.78	29.83	100	110	A	V
		5851.2	60.66	-58.8	119.46	44.61	32.1	13.81	29.86	100	110	P	V
		5873.2	60.68	-45.02	105.7	44.59	32.15	13.81	29.87	100	110	P	V
		5875.8	58.93	-45.68	104.61	42.84	32.15	13.81	29.87	100	110	P	V
		5942.6	56.9	-11.3	68.2	40.7	32.29	13.81	29.9	100	110	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5608.4	59.3	-8.9	68.2	43.74	31.68	13.65	29.77	100	23	P	H
		5693.4	62.39	-37.94	100.33	46.78	31.69	13.72	29.8	100	23	P	H
		5720	68.35	-42.45	110.8	52.59	31.82	13.75	29.81	100	23	P	H
		5723	73.49	-44.15	117.64	57.71	31.84	13.75	29.81	100	23	P	H
	*	5795	123.84	-	-	107.86	32	13.82	29.84	100	23	P	H
	*	5795	114.35	-	-	98.37	32	13.82	29.84	100	23	A	H
		5850	72.16	-50.04	122.2	56.11	32.1	13.81	29.86	100	23	P	H
		5862.2	70.76	-38.02	108.78	54.7	32.12	13.81	29.87	100	23	P	H
		5882.6	66.26	-33.3	99.56	50.16	32.17	13.81	29.88	100	23	P	H
		5941.6	58.94	-9.26	68.2	42.75	32.28	13.81	29.9	100	23	P	H
802.11ax													H
HE40 Full													H
CH 159		5646.4	58.91	-9.29	68.2	43.41	31.61	13.68	29.79	100	115	P	V
5795MHz		5675	63.48	-23.26	86.74	47.92	31.65	13.71	29.8	100	115	P	V
		5716.2	67.24	-42.5	109.74	51.51	31.8	13.74	29.81	100	115	P	V
		5723.6	66.42	-52.59	119.01	50.64	31.84	13.75	29.81	100	115	P	V
	*	5795	122.42	-	-	106.44	32	13.82	29.84	100	115	P	V
	*	5795	113.56	-	-	97.58	32	13.82	29.84	100	115	A	V
		5851.6	70.94	-47.61	118.55	54.89	32.1	13.81	29.86	100	115	P	V
		5855.6	69.41	-41.22	110.63	53.36	32.11	13.81	29.87	100	115	P	V
		5885.4	62.99	-34.49	97.48	46.89	32.17	13.81	29.88	100	115	P	V
		5925	57.31	-10.89	68.2	41.14	32.25	13.81	29.89	100	115	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		11510	55.39	-18.61	74	50.87	39.88	20.13	55.49	210	275	P	H
		11510	45.41	-8.59	54	40.89	39.88	20.13	55.49	210	275	A	H
		17265	52.33	-15.87	68.2	42.94	40.99	25.17	56.77	100	0	P	H
		17989	59.04	-14.96	74	41.82	49.07	25.45	57.3	100	0	P	H
		17989	47.48	-6.52	54	30.26	49.07	24.92	57.3	100	0	A	H
		11510	54.93	-19.07	74	50.41	39.88	20.13	55.49	254	303	P	V
		11510	45.11	-8.89	54	40.59	39.88	20.13	55.49	254	303	A	V
		17265	52.3	-15.9	68.2	42.91	40.99	25.17	56.77	100	0	P	V
		17989	58.89	-15.11	74	41.67	49.07	25.45	57.3	100	0	P	V
		17989	47.84	-6.16	54	30.62	49.07	24.92	57.3	100	0	A	V
802.11ax HE40 Full CH 159 5795MHz		11590	56.16	-17.84	74	51.68	39.72	20.19	55.43	212	276	P	H
		11590	45.91	-8.09	54	41.43	39.72	20.19	55.43	212	276	A	H
		17385	53.24	-14.96	68.2	43.1	41.86	25.22	56.94	100	0	P	H
		17989	58.83	-15.17	74	41.61	49.07	25.45	57.3	100	0	P	H
		17989	47.5	-6.5	54	30.28	49.07	24.92	57.3	100	0	A	H
		11590	55.85	-18.15	74	51.37	39.72	20.19	55.43	254	305	P	V
		11590	46.37	-7.63	54	41.89	39.72	20.19	55.43	254	305	A	V
		17385	53.17	-15.03	68.2	43.03	41.86	25.22	56.94	100	0	P	V
		17989	59.06	-14.94	74	41.84	49.07	25.45	57.3	100	0	P	V
		17989	47.38	-6.62	54	30.16	49.07	24.92	57.3	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_M unmod tone (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5647.4	63.04	-5.16	68.2	47.54	31.61	13.68	29.79	101	20	P	H
		5699.8	78.47	-26.58	105.05	62.85	31.7	13.73	29.81	101	20	P	H
		5708.2	77.02	-30.48	107.5	61.34	31.75	13.74	29.81	101	20	P	H
		5724.4	84.7	-36.13	120.83	68.92	31.85	13.75	29.82	101	20	P	H
	*	5775	124.26	-	-	108.29	32	13.8	29.83	101	20	P	H
	*	5775	115.82	-	-	99.85	32	13.8	29.83	101	20	A	H
		5852.2	71.86	-45.32	117.18	55.81	32.1	13.81	29.86	101	20	P	H
		5857.2	68.48	-41.7	110.18	52.43	32.11	13.81	29.87	101	20	P	H
		5875	67.66	-37.54	105.2	51.57	32.15	13.81	29.87	101	20	P	H
802.11ax		5940	59.32	-8.88	68.2	43.13	32.28	13.81	29.9	101	20	P	H
HE40													H
M unmod													H
tone		5643	59.65	-8.55	68.2	44.14	31.61	13.68	29.78	101	121	P	V
CH 151		5698.2	71.72	-32.15	103.87	56.1	31.7	13.73	29.81	101	121	P	V
5755MHz		5717.6	75.05	-35.08	110.13	59.3	31.81	13.75	29.81	101	121	P	V
		5724.8	86.93	-34.81	121.74	71.15	31.85	13.75	29.82	101	121	P	V
	*	5775	123.17	-	-	107.2	32	13.8	29.83	101	121	P	V
	*	5775	115	-	-	99.03	32	13.8	29.83	101	121	A	V
		5852.4	69.68	-47.05	116.73	53.63	32.1	13.81	29.86	101	121	P	V
		5855.4	69.14	-41.55	110.69	53.09	32.11	13.81	29.87	101	121	P	V
		5876	66.43	-38.03	104.46	50.34	32.15	13.81	29.87	101	121	P	V
		5943.2	57.11	-11.09	68.2	40.91	32.29	13.81	29.9	101	121	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 M unmod tone CH 159 5795MHz		5640.4	60.25	-7.95	68.2	44.73	31.62	13.68	29.78	100	18	P	H
		5696	72.14	-30.11	102.25	56.52	31.69	13.73	29.8	100	18	P	H
		5716.6	74.78	-35.07	109.85	59.05	31.8	13.74	29.81	100	18	P	H
		5721.4	76.04	-37.95	113.99	60.27	31.83	13.75	29.81	100	18	P	H
	*	5795	123.57	-	-	107.59	32	13.82	29.84	100	18	P	H
	*	5795	114.04	-	-	98.06	32	13.82	29.84	100	18	A	H
		5853.6	76.83	-37.16	113.99	60.77	32.11	13.81	29.86	100	18	P	H
		5855.8	75.96	-34.62	110.58	59.91	32.11	13.81	29.87	100	18	P	H
		5876.2	71.38	-32.93	104.31	55.29	32.15	13.81	29.87	100	18	P	H
		5925.4	59.74	-8.46	68.2	43.57	32.25	13.81	29.89	100	18	P	H
													H
													H
		5625.8	57.38	-10.82	68.2	41.85	31.65	13.66	29.78	100	117	P	V
		5689.4	67.57	-29.81	97.38	51.97	31.68	13.72	29.8	100	117	P	V
		5720	71.09	-39.71	110.8	55.33	31.82	13.75	29.81	100	117	P	V
		5720	71.09	-39.71	110.8	55.33	31.82	13.75	29.81	100	117	P	V
	*	5795	120.88	-	-	104.9	32	13.82	29.84	100	117	P	V
	*	5795	112.01	-	-	96.03	32	13.82	29.84	100	117	A	V
		5850.4	74.59	-46.7	121.29	58.54	32.1	13.81	29.86	100	117	P	V
		5869.2	76.02	-30.8	106.82	59.94	32.14	13.81	29.87	100	117	P	V
		5891	70.23	-23.1	93.33	54.12	32.18	13.81	29.88	100	117	P	V
		5937.8	61.49	-6.71	68.2	45.3	32.28	13.81	29.9	100	117	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_BE unmod tone (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5639.6	59.78	-8.42	68.2	44.26	31.62	13.68	29.78	101	22	P	H
		5692.4	69.81	-29.79	99.6	54.21	31.68	13.72	29.8	101	22	P	H
		5714	68.28	-40.84	109.12	52.57	31.78	13.74	29.81	101	22	P	H
		5721.8	67.78	-47.12	114.9	52.01	31.83	13.75	29.81	101	22	P	H
	*	5775	123.73	-	-	107.76	32	13.8	29.83	101	22	P	H
	*	5775	116.07	-	-	100.1	32	13.8	29.83	101	22	A	H
		5854.8	67.02	-44.24	111.26	50.96	32.11	13.81	29.86	101	22	P	H
		5855.4	68.57	-42.12	110.69	52.52	32.11	13.81	29.87	101	22	P	H
		5885.4	64.13	-33.35	97.48	48.03	32.17	13.81	29.88	101	22	P	H
802.11ax		5943	56.51	-11.69	68.2	40.31	32.29	13.81	29.9	101	22	P	H
HE40													H
BE unmod													H
tone		5613.8	59.52	-8.68	68.2	43.97	31.67	13.65	29.77	101	121	P	V
CH 151		5696.4	69.34	-33.21	102.55	53.72	31.69	13.73	29.8	101	121	P	V
5755MHz		5710.8	72.55	-35.68	108.23	56.86	31.76	13.74	29.81	101	121	P	V
		5720.6	72.93	-39.24	112.17	57.17	31.82	13.75	29.81	101	121	P	V
	*	5775	122.84	-	-	106.87	32	13.8	29.83	101	121	P	V
	*	5775	114.92	-	-	98.95	32	13.8	29.83	101	121	A	V
		5852	57.78	-59.86	117.64	41.73	32.1	13.81	29.86	101	121	P	V
		5870.8	68.1	-38.27	106.37	52.02	32.14	13.81	29.87	101	121	P	V
		5893.4	64.15	-27.4	91.55	48.03	32.19	13.81	29.88	101	121	P	V
		5925.2	57.65	-10.55	68.2	41.48	32.25	13.81	29.89	101	121	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 BE unmod tone CH 159 5795MHz		5648	59.85	-8.35	68.2	44.36	31.6	13.68	29.79	100	18	P	H
		5699	62.88	-41.58	104.46	47.26	31.7	13.73	29.81	100	18	P	H
		5719	72.9	-37.62	110.52	57.15	31.81	13.75	29.81	100	18	P	H
		5720	70.77	-40.03	110.8	55.01	31.82	13.75	29.81	100	18	P	H
	*	5795	123.23	-	-	107.25	32	13.82	29.84	100	18	P	H
	*	5795	114.95	-	-	98.97	32	13.82	29.84	100	18	A	H
		5850.8	76.24	-44.14	120.38	60.19	32.1	13.81	29.86	100	18	P	H
		5855	75.8	-35	110.8	59.74	32.11	13.81	29.86	100	18	P	H
		5878.4	71.86	-30.81	102.67	55.76	32.16	13.81	29.87	100	18	P	H
		5926.4	60.6	-7.6	68.2	44.43	32.25	13.81	29.89	100	18	P	H
													H
													H
		5640.8	58.76	-9.44	68.2	43.24	31.62	13.68	29.78	100	117	P	V
		5675.4	65.07	-21.97	87.04	49.51	31.65	13.71	29.8	100	117	P	V
		5720	67.5	-43.3	110.8	51.74	31.82	13.75	29.81	100	117	P	V
		5724.2	68.62	-51.76	120.38	52.84	31.85	13.75	29.82	100	117	P	V
	*	5795	121.11	-	-	105.13	32	13.82	29.84	100	117	P	V
	*	5795	113.01	-	-	97.03	32	13.82	29.84	100	117	A	V
		5851.2	70.93	-48.53	119.46	54.88	32.1	13.81	29.86	100	117	P	V
		5856.2	73.11	-37.35	110.46	57.06	32.11	13.81	29.87	100	117	P	V
		5882.4	68.08	-31.62	99.7	51.99	32.16	13.81	29.88	100	117	P	V
		5927.4	59.27	-8.93	68.2	43.1	32.25	13.81	29.89	100	117	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.8	66.21	-1.99	68.2	50.7	31.61	13.68	29.78	100	23	P	H
		5695	79.84	-21.67	101.51	64.22	31.69	13.73	29.8	100	23	P	H
		5717.6	81.04	-29.09	110.13	65.29	31.81	13.75	29.81	100	23	P	H
		5720.4	81.35	-30.36	111.71	65.59	31.82	13.75	29.81	100	23	P	H
	*	5775	119.48	-	-	103.51	32	13.8	29.83	100	23	P	H
	*	5775	110.07	-	-	94.1	32	13.8	29.83	100	23	A	H
		5851	76.43	-43.49	119.92	60.38	32.1	13.81	29.86	100	23	P	H
		5859.8	76.66	-32.79	109.45	60.6	32.12	13.81	29.87	100	23	P	H
		5882	69.39	-30.61	100	53.3	32.16	13.81	29.88	100	23	P	H
		5926.6	60.84	-7.36	68.2	44.67	32.25	13.81	29.89	100	23	P	H
802.11ax													H
HE80 Full													H
CH 155		5649.4	63.71	-4.49	68.2	48.22	31.6	13.68	29.79	100	116	P	V
5775MHz		5697.2	71.02	-32.12	103.14	55.4	31.69	13.73	29.8	100	116	P	V
		5711.2	77.22	-31.12	108.34	61.52	31.77	13.74	29.81	100	116	P	V
		5723.8	78.53	-40.93	119.46	62.76	31.84	13.75	29.82	100	116	P	V
	*	5775	119.05	-	-	103.08	32	13.8	29.83	100	116	P	V
	*	5775	109.21	-	-	93.24	32	13.8	29.83	100	116	A	V
		5850.4	75.46	-45.83	121.29	59.41	32.1	13.81	29.86	100	116	P	V
		5863.2	70.21	-38.29	108.5	54.14	32.13	13.81	29.87	100	116	P	V
		5875.4	63.92	-40.98	104.9	47.83	32.15	13.81	29.87	100	116	P	V
		5930.8	58.45	-9.75	68.2	42.27	32.26	13.81	29.89	100	116	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		11550	51.7	-22.3	74	47.2	39.8	20.16	55.46	213	278	P	H
		11550	43.44	-10.56	54	38.94	39.8	20.16	55.46	213	278	A	H
		17325	51.43	-16.77	68.2	41.76	41.32	25.2	56.85	100	0	P	H
		17978	58.77	-15.23	74	41.78	48.84	25.44	57.29	100	0	P	H
		17978	47.36	-6.64	54	30.37	48.84	24.91	57.29	100	0	A	H
		11550	52.25	-21.75	74	47.75	39.8	20.16	55.46	252	309	P	V
		11550	44.31	-9.69	54	39.81	39.8	20.16	55.46	214	278	A	V
		17325	51.28	-16.92	68.2	41.61	41.32	25.2	56.85	100	0	P	V
		17978	58.86	-15.14	74	41.87	48.84	25.44	57.29	100	0	P	V
		17978	47.4	-6.6	54	30.41	48.84	24.91	57.29	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_M unmod tone (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 M unmod CH 155 5775MHz		5630.2	67.02	-1.18	68.2	51.49	31.64	13.67	29.78	100	22	P	H
		5693	76.84	-23.2	100.04	61.23	31.69	13.72	29.8	100	22	P	H
		5719.8	83.45	-27.29	110.74	67.69	31.82	13.75	29.81	100	22	P	H
		5722.2	85.29	-30.53	115.82	69.52	31.83	13.75	29.81	100	22	P	H
	*	5775	118.59	-	-	102.62	32	13.8	29.83	100	22	P	H
	*	5775	108.12	-	-	92.15	32	13.8	29.83	100	22	A	H
		5853.2	76.78	-38.12	114.9	60.72	32.11	13.81	29.86	100	22	P	H
		5863.6	79.72	-28.67	108.39	63.65	32.13	13.81	29.87	100	22	P	H
		5876.4	71.45	-32.71	104.16	55.36	32.15	13.81	29.87	100	22	P	H
		5930.4	64.47	-3.73	68.2	48.29	32.26	13.81	29.89	100	22	P	H
													H
													H
		5623	63.65	-4.55	68.2	48.12	31.65	13.66	29.78	100	121	P	V
		5670.2	71.41	-11.78	83.19	55.86	31.64	13.7	29.79	100	121	P	V
		5709.8	77.88	-30.07	107.95	62.19	31.76	13.74	29.81	100	121	P	V
		5724.6	79.55	-41.74	121.29	63.77	31.85	13.75	29.82	100	121	P	V
	*	5775	116.1	-	-	100.13	32	13.8	29.83	100	121	P	V
	*	5775	105.56	-	-	89.59	32	13.8	29.83	100	121	A	V
		5850.4	79.77	-41.52	121.29	63.72	32.1	13.81	29.86	100	121	P	V
		5862.6	76.16	-32.51	108.67	60.09	32.13	13.81	29.87	100	121	P	V
		5876.4	67.63	-36.53	104.16	51.54	32.15	13.81	29.87	100	121	P	V
		5930.2	60.89	-7.31	68.2	44.71	32.26	13.81	29.89	100	121	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_BE unmod tone (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 BE unmod CH 155 5775MHz		5623.8	66.67	-1.53	68.2	51.14	31.65	13.66	29.78	100	21	P	H
		5680.2	82.37	-8.22	90.59	66.8	31.66	13.71	29.8	100	21	P	H
		5717.4	85.66	-24.41	110.07	69.92	31.8	13.75	29.81	100	21	P	H
		5721	88.31	-24.77	113.08	72.54	31.83	13.75	29.81	100	21	P	H
	*	5775	117.67	-	-	101.7	32	13.8	29.83	100	21	P	H
	*	5775	108.69	-	-	92.72	32	13.8	29.83	100	21	A	H
		5850.8	71.66	-48.72	120.38	55.61	32.1	13.81	29.86	100	21	P	H
		5862.8	83.94	-24.67	108.61	67.87	32.13	13.81	29.87	100	21	P	H
		5886	66.84	-30.19	97.03	50.74	32.17	13.81	29.88	100	21	P	H
		5925.4	62.35	-5.85	68.2	46.18	32.25	13.81	29.89	100	21	P	H
													H
													H
		5629.4	64.02	-4.18	68.2	48.49	31.64	13.67	29.78	100	118	P	V
		5688.2	74.32	-22.18	96.5	58.72	31.68	13.72	29.8	100	118	P	V
		5719.2	77.34	-33.24	110.58	61.58	31.82	13.75	29.81	100	118	P	V
		5724	76.57	-43.35	119.92	60.8	31.84	13.75	29.82	100	118	P	V
	*	5775	115.96	-	-	99.99	32	13.8	29.83	100	118	P	V
	*	5775	107.46	-	-	91.49	32	13.8	29.83	100	118	A	V
		5850.4	75.63	-45.66	121.29	59.58	32.1	13.81	29.86	100	118	P	V
		5870.2	76.86	-29.68	106.54	60.78	32.14	13.81	29.87	100	118	P	V
		5877	67.72	-35.99	103.71	51.63	32.15	13.81	29.87	100	118	P	V
		5931	59.48	-8.72	68.2	43.3	32.26	13.81	29.89	100	118	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

WIFI 802.11ax HE80 Full (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
10+11+12+13		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		21696	39.45	-28.75	68.2	43.08	37.96	11.87	53.46	150	0	P	H
		29242	41.8	-26.4	68.2	40.74	40.4	15.31	54.65	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
5GHz													H
802.11ax													H
HE80		26558	42.64	-25.56	68.2	40.93	40.1	11.61	53	150	0	P	V
SHF		33620	44.29	-23.91	68.2	39.8	41.08	17.85	54.44	150	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Emission below 1GHz

WIFI 802.11ax HE80 Full (LF @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full LF		63.95	32.16	-7.84	40	51.83	11.94	1.17	32.78	100	0	P	H
		179.38	33.39	-10.11	43.5	48.86	15.18	2.2	32.85	-	-	P	H
		402.48	26.32	-19.68	46	33.11	22.19	3.4	32.38	-	-	P	H
		500.45	30.78	-15.22	46	35.5	24.16	3.78	32.66	-	-	P	H
		718.7	37.33	-8.67	46	38.04	27.15	4.63	32.49	-	-	P	H
		896.21	32.59	-13.41	46	30.6	29.14	5.29	32.44	-	-	P	H
													H
													H
													H
													H
													H
													H
		52.31	34.6	-5.4	40	53.15	13.29	1	32.84	100	331	Q	V
		64.92	35.91	-4.09	40	55.59	11.92	1.18	32.78	120	17	Q	V
		181.32	36.15	-7.35	43.5	51.67	15.12	2.21	32.85	-	-	P	V
		500.45	34.23	-11.77	46	38.95	24.16	3.78	32.66	-	-	P	V
		719.67	36.31	-9.69	46	36.98	27.19	4.63	32.49	-	-	P	V
		857.41	31.91	-14.09	46	30.16	29.25	5.11	32.61	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

<TXBF Mode>

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
10+11+12+13		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5640.6	57.23	-10.97	68.2	41.71	31.62	13.68	29.78	100	350	P	H
		5699	58.48	-45.98	104.46	42.86	31.7	13.73	29.81	100	350	P	H
		5719	65.36	-45.16	110.52	49.61	31.81	13.75	29.81	100	350	P	H
		5724.8	67.79	-53.95	121.74	52.01	31.85	13.75	29.82	100	350	P	H
	*	5745	123.38	-	-	107.46	31.97	13.77	29.82	100	350	P	H
	*	5745	114.35	-	-	98.43	31.97	13.77	29.82	100	350	A	H
802.11ax													H
HE20													H
CH 149		5623.6	56.58	-11.62	68.2	41.05	31.65	13.66	29.78	100	251	P	V
5745MHz		5697.4	57.26	-46.02	103.28	41.65	31.69	13.73	29.81	100	251	P	V
		5714.2	65.41	-43.77	109.18	49.69	31.79	13.74	29.81	100	251	P	V
		5724.2	68.04	-52.34	120.38	52.26	31.85	13.75	29.82	100	251	P	V
	*	5745	122.37	-	-	106.45	31.97	13.77	29.82	100	251	P	V
	*	5745	112.48	-	-	96.56	31.97	13.77	29.82	100	251	A	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5605.8	57.42	-10.78	68.2	41.85	31.69	13.65	29.77	100	337	P	H
		5683.4	58.35	-34.6	92.95	42.76	31.67	13.72	29.8	100	337	P	H
		5715	57.74	-51.66	109.4	42.02	31.79	13.74	29.81	100	337	P	H
		5720.6	56.96	-55.21	112.17	41.2	31.82	13.75	29.81	100	337	P	H
	*	5785	123.92	-	-	107.95	32	13.81	29.84	100	337	P	H
	*	5785	114.57	-	-	98.6	32	13.81	29.84	100	337	A	H
		5850.4	55.37	-65.92	121.29	39.32	32.1	13.81	29.86	100	337	P	H
		5861.8	55.96	-52.93	108.89	39.9	32.12	13.81	29.87	100	337	P	H
		5878.2	55.99	-46.83	102.82	39.89	32.16	13.81	29.87	100	337	P	H
		5932.2	56.82	-11.38	68.2	40.64	32.26	13.81	29.89	100	337	P	H
802.11ax													H
HE20													H
CH 157		5632	57.13	-11.07	68.2	41.6	31.64	13.67	29.78	100	253	P	V
5785MHz		5695	58.86	-42.65	101.51	43.24	31.69	13.73	29.8	100	253	P	V
		5714	58.73	-50.39	109.12	43.02	31.78	13.74	29.81	100	253	P	V
		5722.4	56.45	-59.82	116.27	40.68	31.83	13.75	29.81	100	253	P	V
	*	5785	123.52	-	-	107.55	32	13.81	29.84	100	253	P	V
	*	5785	114.44	-	-	98.47	32	13.81	29.84	100	253	A	V
		5851	55.13	-64.79	119.92	39.08	32.1	13.81	29.86	100	253	P	V
		5868.8	56.02	-50.91	106.93	39.94	32.14	13.81	29.87	100	253	P	V
		5877.2	57.05	-46.52	103.57	40.96	32.15	13.81	29.87	100	253	P	V
		5947.6	54.91	-13.29	68.2	38.7	32.3	13.81	29.9	100	253	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	124.41	-	-	108.39	32.05	13.82	29.85	100	344	P	H
	*	5825	114.75	-	-	98.73	32.05	13.82	29.85	100	344	A	H
		5851	69.74	-50.18	119.92	53.69	32.1	13.81	29.86	100	344	P	H
		5862.6	65.38	-43.29	108.67	49.31	32.13	13.81	29.87	100	344	P	H
		5882.4	57.21	-42.49	99.7	41.12	32.16	13.81	29.88	100	344	P	H
		5948.2	56.87	-11.33	68.2	40.66	32.3	13.81	29.9	100	344	P	H
802.11ax													H
HE20													H
CH 165	*	5825	123.93	-	-	107.91	32.05	13.82	29.85	100	253	P	V
5825MHz	*	5825	114.49	-	-	98.47	32.05	13.82	29.85	100	253	A	V
		5851.2	70.6	-48.86	119.46	54.55	32.1	13.81	29.86	100	253	P	V
		5855.2	66.25	-44.49	110.74	50.19	32.11	13.81	29.86	100	253	P	V
		5888	56.4	-39.15	95.55	40.29	32.18	13.81	29.88	100	253	P	V
		5928.4	55.44	-12.76	68.2	39.26	32.26	13.81	29.89	100	253	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Harmonic @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49.81	-24.19	74	45.3	39.91	20.11	55.51	100	0	P	H
		17235	51.75	-16.45	68.2	42.42	40.9	25.16	56.73	100	0	P	H
		17989	58.53	-15.47	74	41.31	49.07	25.45	57.3	100	0	P	H
802.11ax		17989	47.59	-6.41	54	30.37	49.07	25.45	57.3	100	0	A	H
HE20													H
CH 149		11490	49.64	-24.36	74	45.13	39.91	20.11	55.51	100	0	P	V
5745MHz		17235	51.56	-16.64	68.2	42.23	40.9	25.16	56.73	100	0	P	V
		17989	59.25	-14.75	74	42.03	49.07	25.45	57.3	100	0	P	V
		17989	47.48	-6.52	54	30.26	49.07	25.45	57.3	100	0	A	V
													V
		11570	51.1	-22.9	74	46.6	39.76	20.18	55.44	100	0	P	H
		11570	43.14	-10.86	54	38.64	39.76	20.18	55.44	100	0	A	H
		17355	51.37	-16.83	68.2	41.46	41.6	25.21	56.9	100	0	P	H
802.11ax		17978	58.79	-15.21	74	41.8	48.84	25.44	57.29	100	0	P	H
HE20		17978	47.61	-6.39	54	30.62	48.84	25.44	57.29	100	0	A	H
CH 157		11570	49.04	-24.96	74	44.54	39.76	20.18	55.44	100	0	P	V
5785MHz		17355	50.58	-17.62	68.2	40.67	41.6	25.21	56.9	100	0	P	V
		17978	59.17	-14.83	74	42.18	48.84	25.44	57.29	100	0	P	V
		17978	47.42	-6.58	54	30.43	48.84	25.44	57.29	100	0	A	V
													V

		11650	49.83	-24.17	74	45.43	39.55	20.23	55.38	100	0	P	H
		17475	51.32	-16.88	68.2	40.68	42.45	25.25	57.06	100	0	P	H
		17989	59.69	-14.31	74	42.47	49.07	25.45	57.3	100	0	P	H
802.11ax		17989	47.48	-6.52	54	30.26	49.07	25.45	57.3	100	0	A	H
HE20													H
CH 165		11650	51.33	-22.67	74	46.93	39.55	20.23	55.38	100	104	P	V
5825MHz		11650	41.75	-12.25	54	37.35	39.55	20.23	55.38	100	104	A	V
		17475	51.7	-16.5	68.2	41.06	42.45	25.25	57.06	100	0	P	V
		17989	59.04	-14.96	74	41.82	49.07	25.45	57.3	100	0	P	V
		17989	47.69	-6.31	54	30.47	49.07	25.45	57.3	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5616.8	56.5	-11.7	68.2	40.94	31.67	13.66	29.77	100	356	P	H
		5699.8	63.05	-42	105.05	47.43	31.7	13.73	29.81	100	356	P	H
		5719.6	70.98	-39.71	110.69	55.22	31.82	13.75	29.81	100	356	P	H
		5721	69.24	-43.84	113.08	53.47	31.83	13.75	29.81	100	356	P	H
	*	5755	120.88	-	-	104.93	32	13.78	29.83	100	356	P	H
	*	5755	110.64	-	-	94.69	32	13.78	29.83	100	356	A	H
		5853.6	56.43	-57.56	113.99	40.37	32.11	13.81	29.86	100	356	P	H
		5858	55.96	-54	109.96	39.9	32.12	13.81	29.87	100	356	P	H
		5902.2	56.25	-28.78	85.03	40.12	32.2	13.81	29.88	100	356	P	H
		5945.4	55	-13.2	68.2	38.8	32.29	13.81	29.9	100	356	P	H
802.11ax													H
HE40 Full													H
CH 151		5634.4	63.11	-5.09	68.2	47.59	31.63	13.67	29.78	100	250	P	V
5755MHz		5698.6	63.14	-41.03	104.17	47.52	31.7	13.73	29.81	100	250	P	V
		5718.2	73.66	-36.64	110.3	57.91	31.81	13.75	29.81	100	250	P	V
		5720.4	74.66	-37.05	111.71	58.9	31.82	13.75	29.81	100	250	P	V
	*	5755	121.57	-	-	105.62	32	13.78	29.83	100	250	P	V
	*	5755	111.49	-	-	95.54	32	13.78	29.83	100	250	A	V
		5850.2	56.14	-65.6	121.74	40.09	32.1	13.81	29.86	100	250	P	V
		5863.8	57.84	-50.49	108.33	41.77	32.13	13.81	29.87	100	250	P	V
		5908.4	56.09	-24.36	80.45	39.95	32.22	13.81	29.89	100	250	P	V
		5944.4	55.91	-12.29	68.2	39.71	32.29	13.81	29.9	100	250	P	V
													V
													V

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5602.8	58.4	-9.8	68.2	42.84	31.69	13.64	29.77	100	336	P	H
		5684.2	58.76	-34.78	93.54	43.17	31.67	13.72	29.8	100	336	P	H
		5708.6	60.56	-47.05	107.61	44.88	31.75	13.74	29.81	100	336	P	H
		5724	65.76	-54.16	119.92	49.99	31.84	13.75	29.82	100	336	P	H
	*	5795	122.1	-	-	106.12	32	13.82	29.84	100	336	P	H
	*	5795	111.97	-	-	95.99	32	13.82	29.84	100	336	A	H
		5854.4	64.27	-47.9	112.17	48.21	32.11	13.81	29.86	100	336	P	H
		5855	62.43	-48.37	110.8	46.37	32.11	13.81	29.86	100	336	P	H
		5883.8	58.01	-40.66	98.67	41.91	32.17	13.81	29.88	100	336	P	H
		5935.8	54.99	-13.21	68.2	38.81	32.27	13.81	29.9	100	336	P	H
802.11ax													H
HE40 Full													H
CH 159		5649.8	57.01	-11.19	68.2	41.52	31.6	13.68	29.79	100	252	P	V
5795MHz		5675	63.13	-23.61	86.74	47.57	31.65	13.71	29.8	100	252	P	V
		5713.6	60.9	-48.11	109.01	45.19	31.78	13.74	29.81	100	252	P	V
		5724	60.21	-59.71	119.92	44.44	31.84	13.75	29.82	100	252	P	V
	*	5795	120.86	-	-	104.88	32	13.82	29.84	100	252	P	V
	*	5795	111.64	-	-	95.66	32	13.82	29.84	100	252	A	V
		5854.6	62.51	-49.2	111.71	46.45	32.11	13.81	29.86	100	252	P	V
		5856	64	-46.52	110.52	47.95	32.11	13.81	29.87	100	252	P	V
		5876.4	58.58	-45.58	104.16	42.49	32.15	13.81	29.87	100	252	P	V
		5929.6	55.68	-12.52	68.2	39.5	32.26	13.81	29.89	100	252	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		11510	49.32	-24.68	74	44.8	39.88	20.13	55.49	100	0	P	H
		17265	51.43	-16.77	68.2	42.04	40.99	25.17	56.77	100	0	P	H
		17967	60.24	-13.76	74	43.48	48.61	25.44	57.29	100	0	P	H
		17967	47.27	-6.73	54	30.51	48.61	25.44	57.29	100	0	A	H
		11510	48.69	-25.31	74	44.17	39.88	20.13	55.49	100	0	P	V
		17265	50.81	-17.39	68.2	41.42	40.99	25.17	56.77	100	0	P	V
		17967	59.07	-14.93	74	42.31	48.61	25.44	57.29	100	0	P	V
		17967	47.13	-6.87	54	30.37	48.61	25.44	57.29	100	0	A	V
802.11ax HE40 Full CH 159 5795MHz		11590	48.8	-25.2	74	44.32	39.72	20.19	55.43	100	0	P	H
		17385	50.79	-17.41	68.2	40.65	41.86	25.22	56.94	100	0	P	H
		17978	59.27	-14.73	74	42.28	48.84	25.44	57.29	100	0	P	H
		17978	47.46	-6.54	54	30.47	48.84	25.44	57.29	100	0	A	H
		11590	49.37	-24.63	74	44.89	39.72	20.19	55.43	100	0	P	V
		17385	50.59	-17.61	68.2	40.45	41.86	25.22	56.94	100	0	P	V
		17978	59.05	-14.95	74	42.06	48.84	25.44	57.29	100	0	P	V
		17978	47.7	-6.3	54	30.71	48.84	25.44	57.29	100	0	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5640.4	60.66	-7.54	68.2	45.14	31.62	13.68	29.78	100	354	P	H
		5695.2	69.52	-32.14	101.66	53.9	31.69	13.73	29.8	100	354	P	H
		5711	72.34	-35.94	108.28	56.64	31.77	13.74	29.81	100	354	P	H
		5721.2	72.48	-41.06	113.54	56.71	31.83	13.75	29.81	100	354	P	H
	*	5775	118.42	-	-	102.45	32	13.8	29.83	100	354	P	H
	*	5775	109.11	-	-	93.14	32	13.8	29.83	100	354	A	H
		5851.2	66.51	-52.95	119.46	50.46	32.1	13.81	29.86	100	354	P	H
		5862	64.65	-44.19	108.84	48.59	32.12	13.81	29.87	100	354	P	H
		5880.2	60.22	-41.12	101.34	44.12	32.16	13.81	29.87	100	354	P	H
		5927.6	56.13	-12.07	68.2	39.95	32.26	13.81	29.89	100	354	P	H
802.11ax													H
HE80 Full													H
CH 155		5643.2	62.09	-6.11	68.2	46.58	31.61	13.68	29.78	100	254	P	V
5775MHz		5699	72.11	-32.35	104.46	56.49	31.7	13.73	29.81	100	254	P	V
		5718.8	75.16	-35.3	110.46	59.41	31.81	13.75	29.81	100	254	P	V
		5720.2	72.6	-38.66	111.26	56.84	31.82	13.75	29.81	100	254	P	V
	*	5775	119.46	-	-	103.49	32	13.8	29.83	100	254	P	V
	*	5775	109.52	-	-	93.55	32	13.8	29.83	100	254	A	V
		5850.4	66.5	-54.79	121.29	50.45	32.1	13.81	29.86	100	254	P	V
		5863.6	68.67	-39.72	108.39	52.6	32.13	13.81	29.87	100	254	P	V
		5876	62.23	-42.23	104.46	46.14	32.15	13.81	29.87	100	254	P	V
		5943.6	57.45	-10.75	68.2	41.25	32.29	13.81	29.9	100	254	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 10+11+12+13	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		11550	48.8	-25.2	74	44.3	39.8	20.16	55.46	100	0	P	H
		17325	51.94	-16.26	68.2	42.27	41.32	25.2	56.85	100	0	P	H
		17978	59.35	-14.65	74	42.36	48.84	25.44	57.29	100	0	P	H
		17978	47.35	-6.65	54	30.36	48.84	25.44	57.29	100	0	A	H
		11550	49.6	-24.4	74	45.1	39.8	20.16	55.46	100	0	P	V
		17325	52.06	-16.14	68.2	42.39	41.32	25.2	56.85	100	0	P	V
		17978	59.18	-14.82	74	42.19	48.84	25.44	57.29	100	0	P	V
		17978	47.4	-6.6	54	30.41	48.84	25.44	57.29	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
10+11+12+13		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

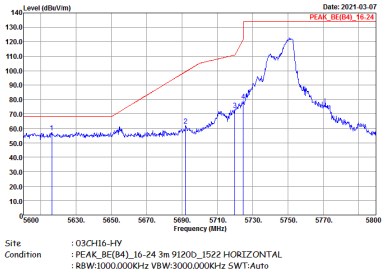
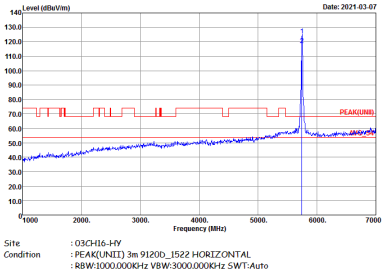
Appendix D. Radiated Spurious Emission Plots

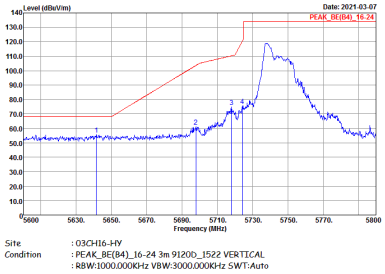
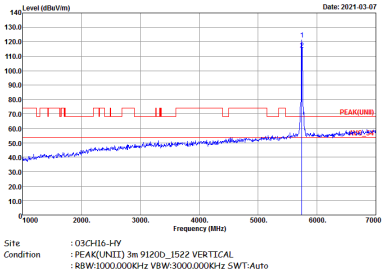
Test Engineer :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

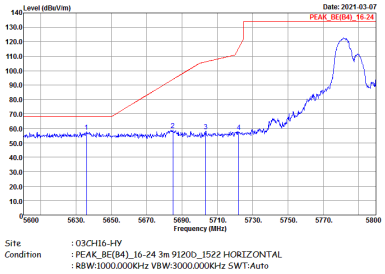
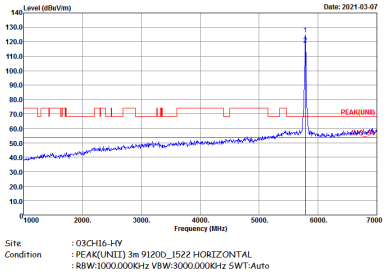
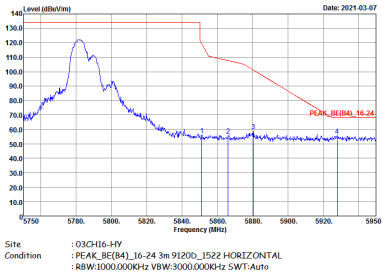
<STBC Mode>

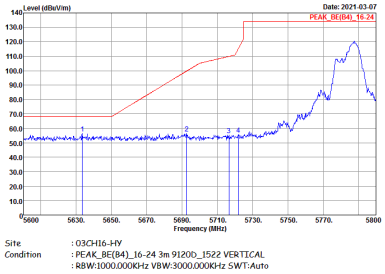
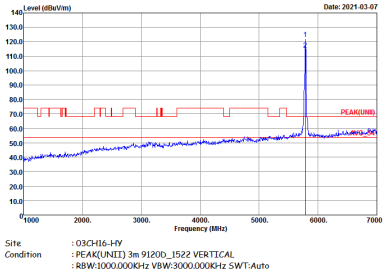
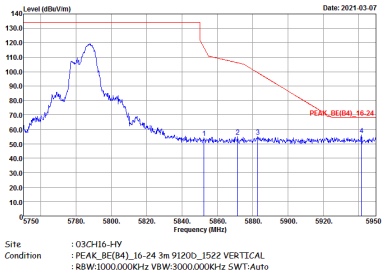
Band 4 - 5725~5850MHz

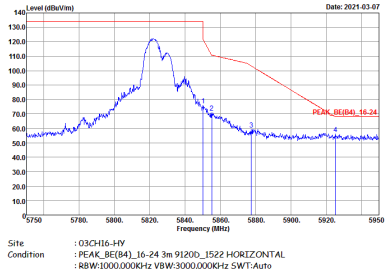
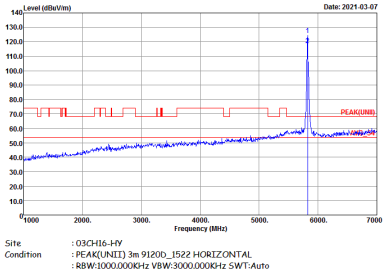
WIFI 802.11a (Band Edge @ 3m)

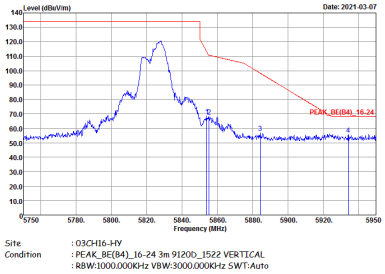
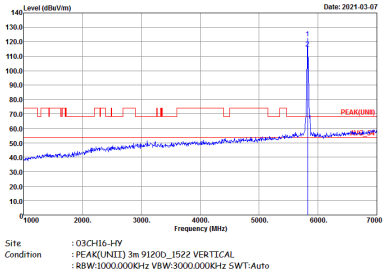
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

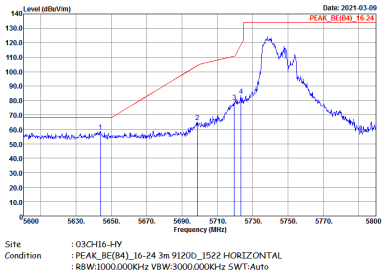
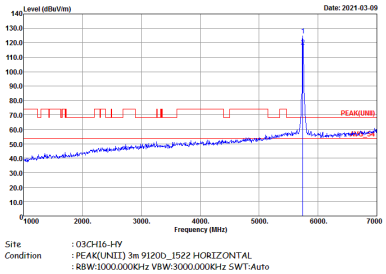
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

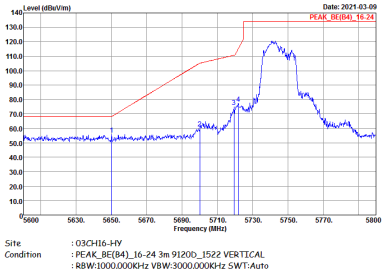
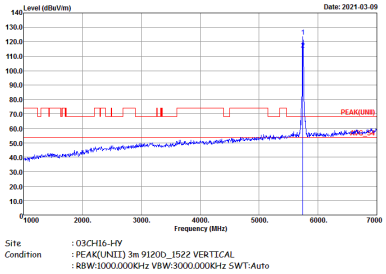
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

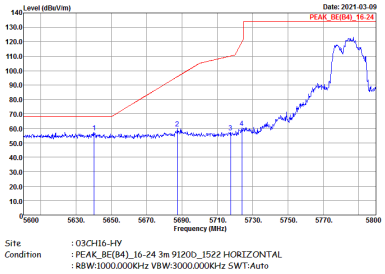
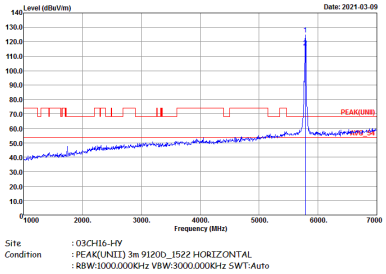
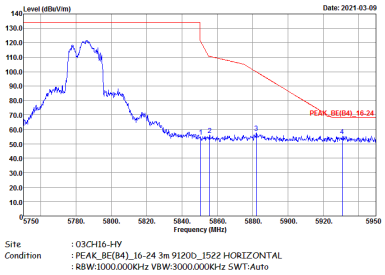
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

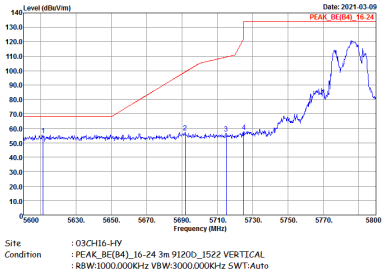
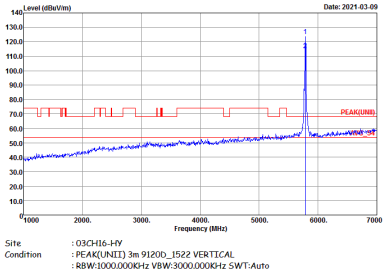
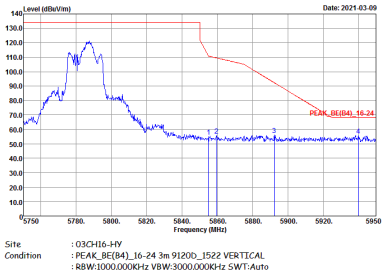
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

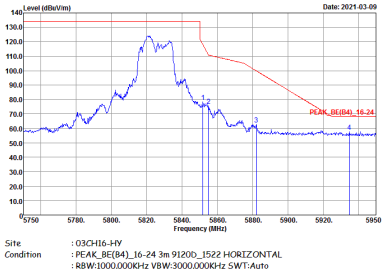
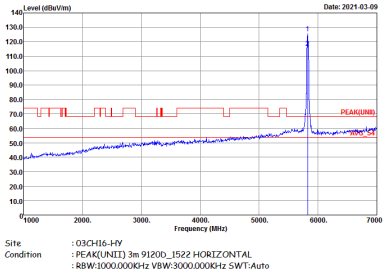
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

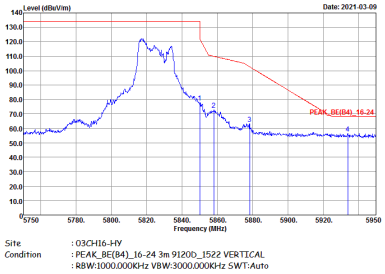
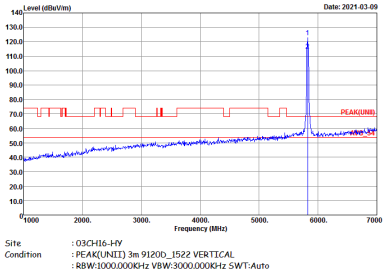
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

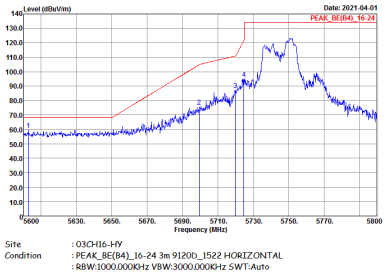
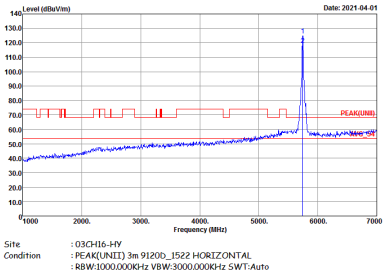
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

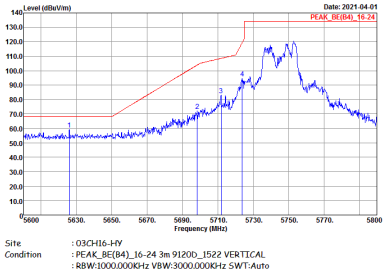
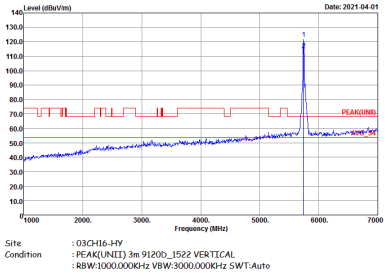
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

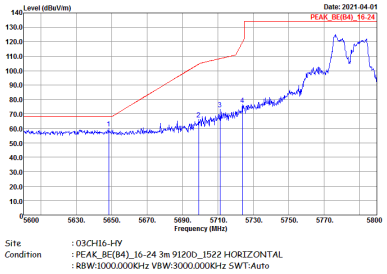
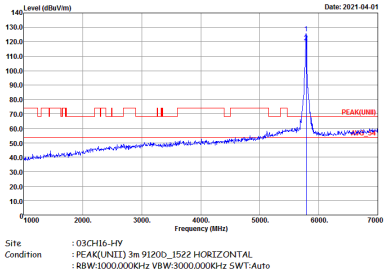
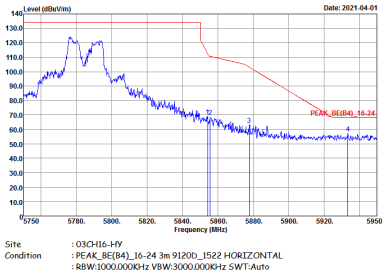
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

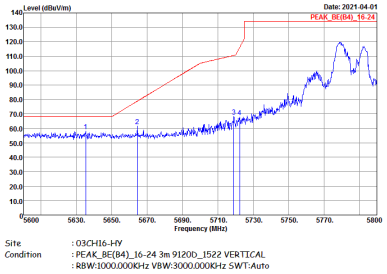
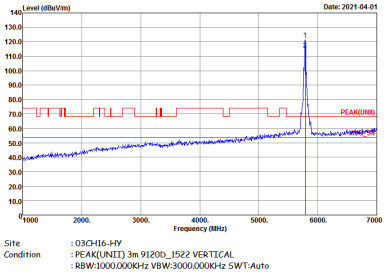
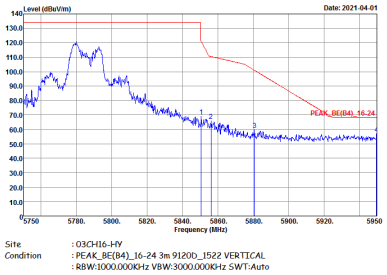
Band 4 5725~5850MHz

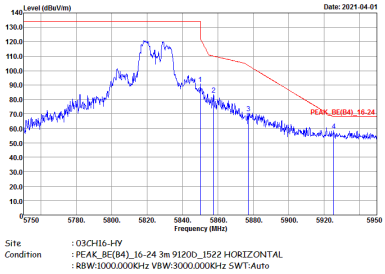
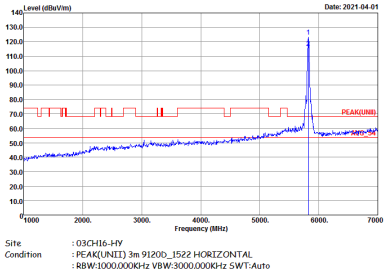
WIFI 802.11ax HE20 M unmod tone (Band Edge @ 3m)

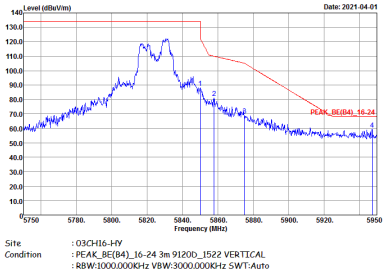
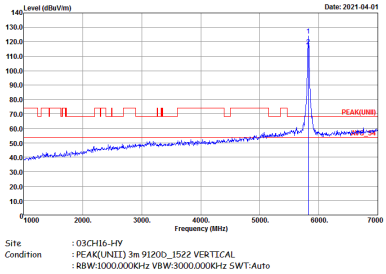
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 M unmod tone CH149 5745MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 M unmod tone CH149 5745MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 M unmod tone CH157 5785MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

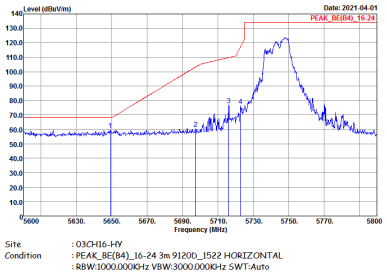
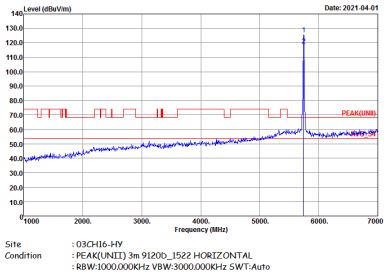
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 M unmod tone CH157 5785MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

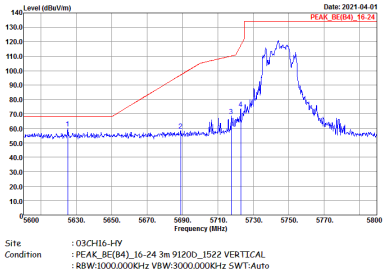
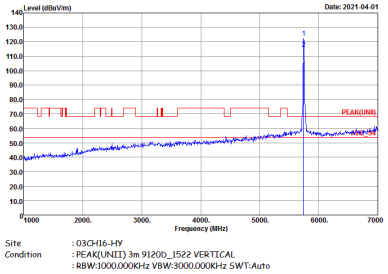
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 M unmod tone CH165 5825MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

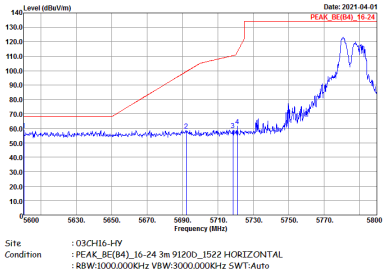
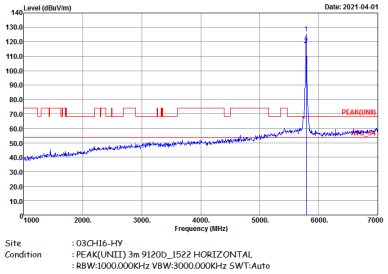
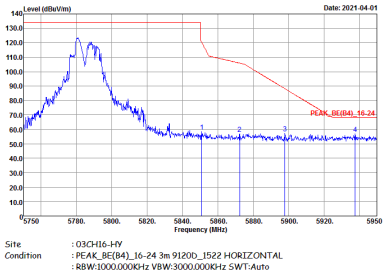
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 M unmod tone CH165 5825MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

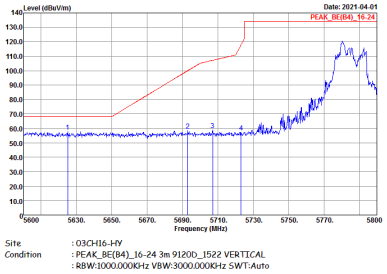
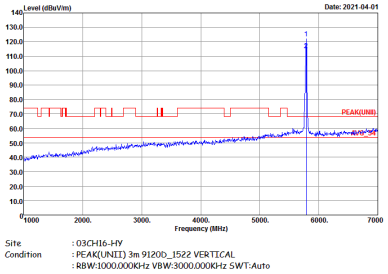
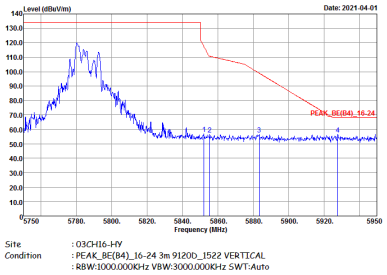
Band 4 5725~5850MHz

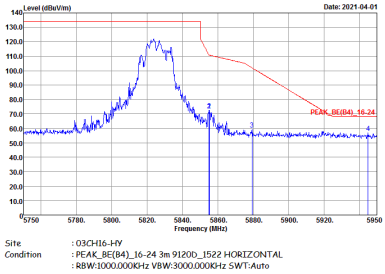
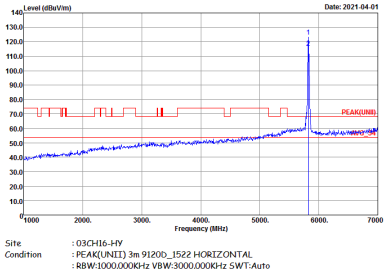
WIFI 802.11ax HE20 BE unmod tone (Band Edge @ 3m)

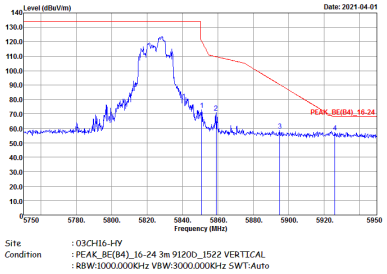
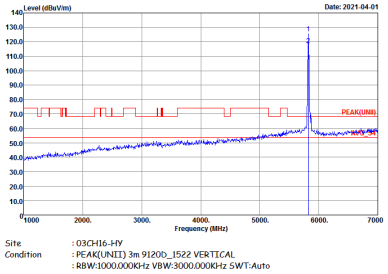
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 BE unmod tone CH149 5745MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 BE unmod tone CH149 5745MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

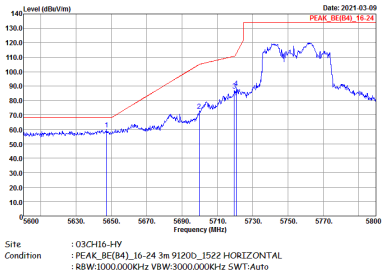
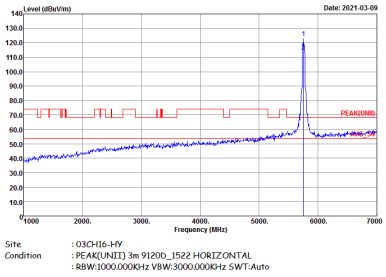
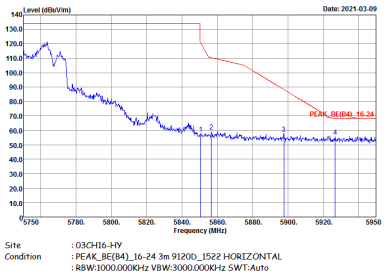
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 BE unmod tone CH157 5785MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

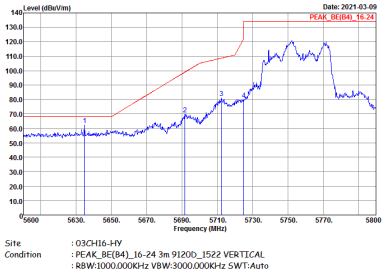
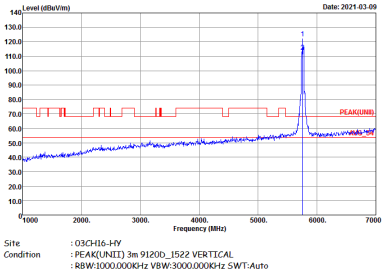
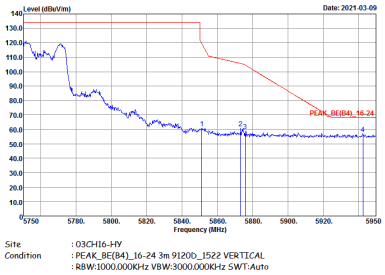
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 BE unmod tone CH157 5785MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

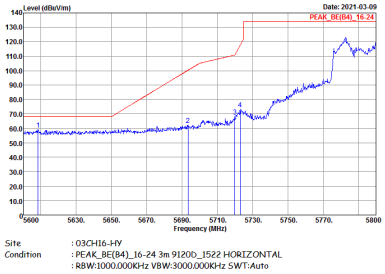
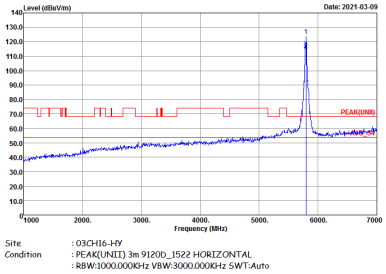
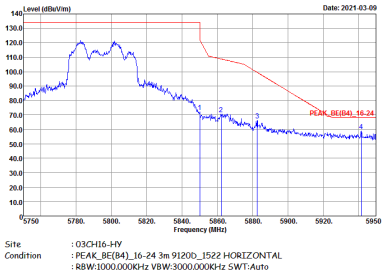
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 BE unmod tone CH165 5825MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

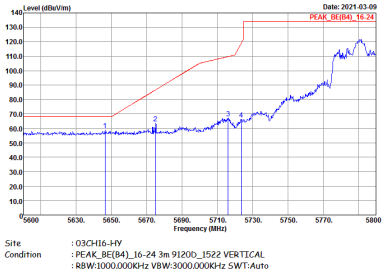
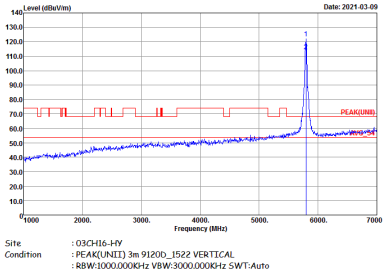
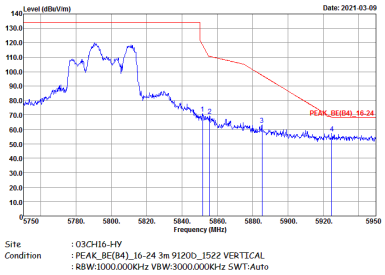
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 BE unmod tone CH165 5825MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

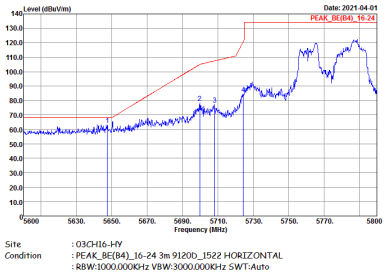
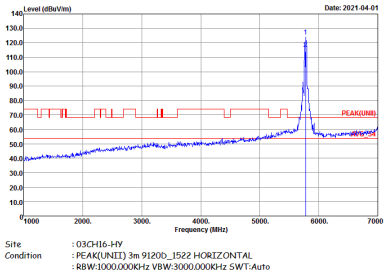
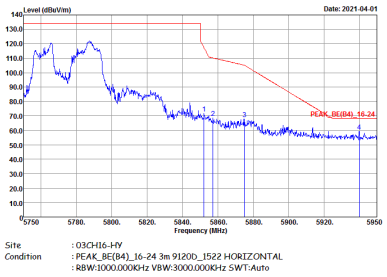
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

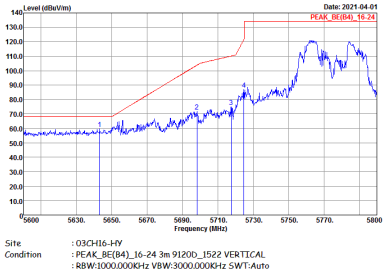
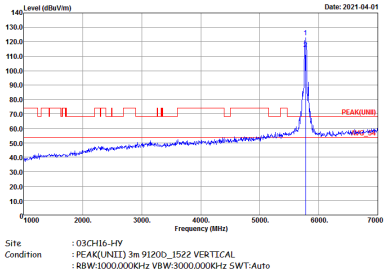
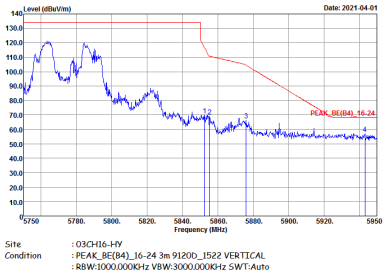
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

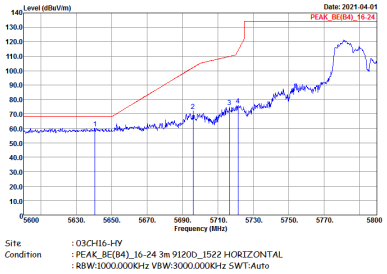
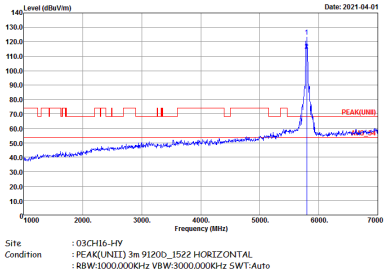
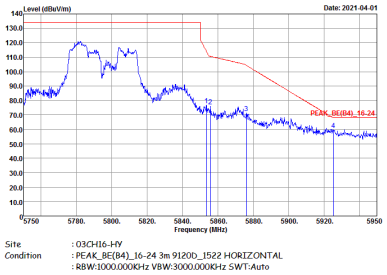
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

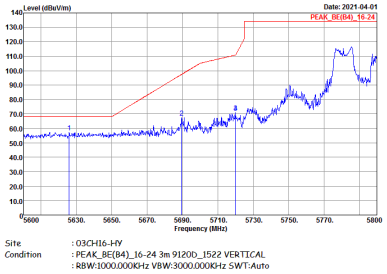
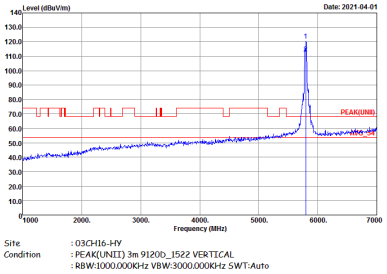
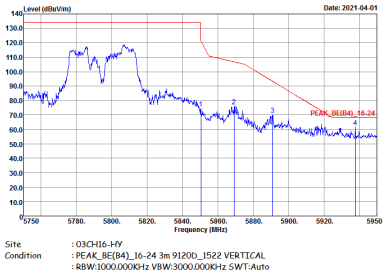
Band 4 5725~5850MHz

WIFI 802.11ax HE40 M unmod tone (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 M unmod tone CH151 5755MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

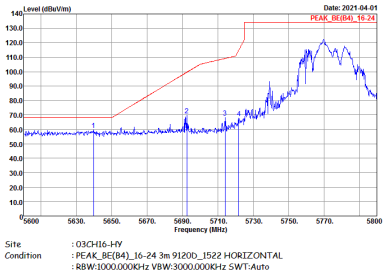
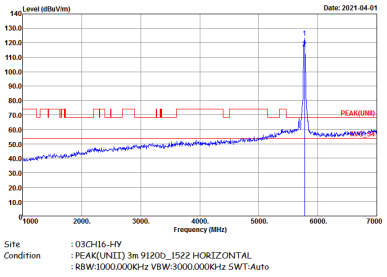
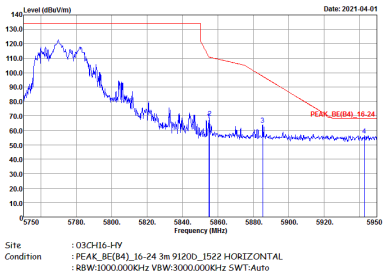
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 M unmod tone CH151 5755MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

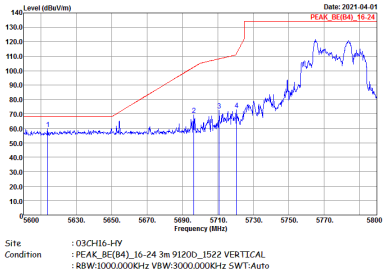
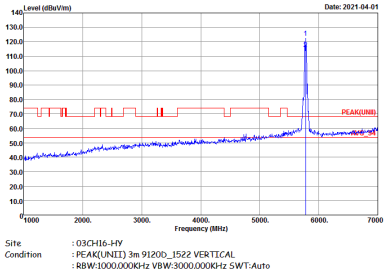
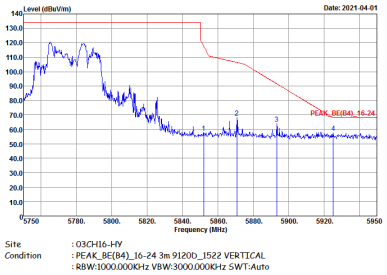
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 M unmod tone CH159 5795MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

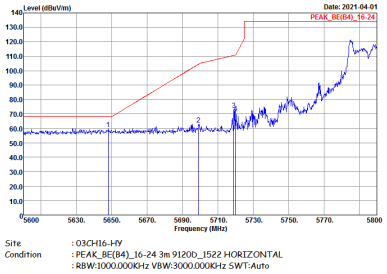
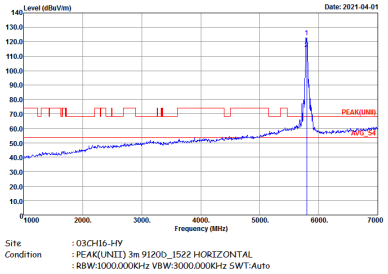
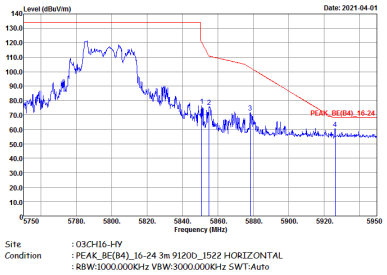
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 M unmod tone CH159 5795MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

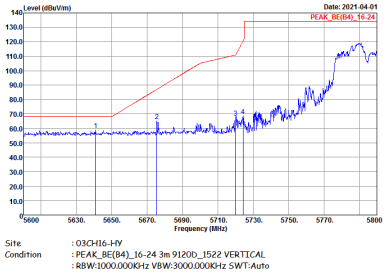
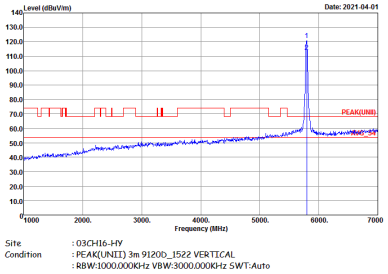
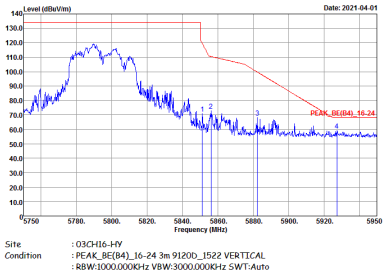
Band 4 5725~5850MHz

WIFI 802.11ax HE40 BE unmod tone (Band Edge @ 3m)

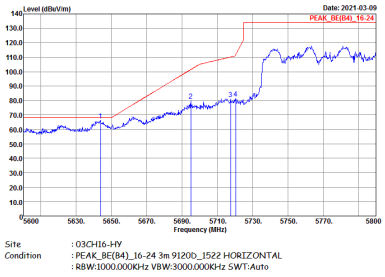
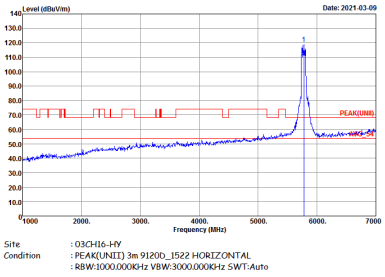
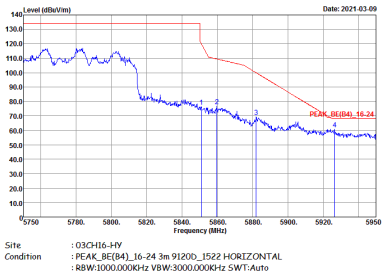
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 BE unmod tone CH151 5755MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

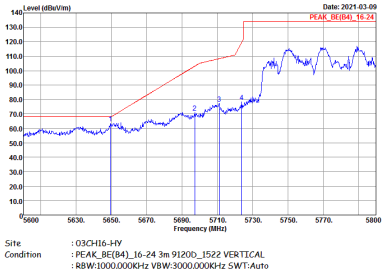
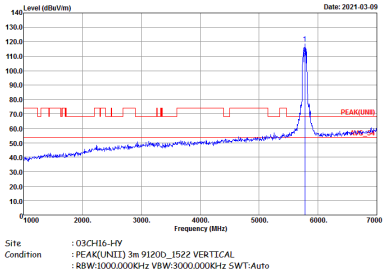
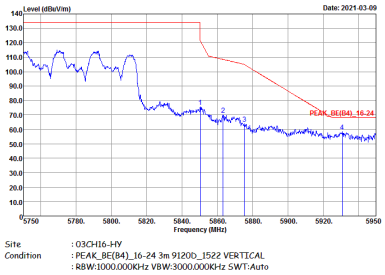
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 BE unmod tone CH151 5755MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 BE unmod tone CH159 5795MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 BE unmod tone CH159 5795MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

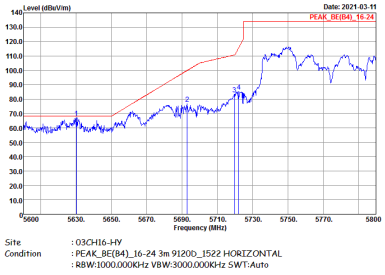
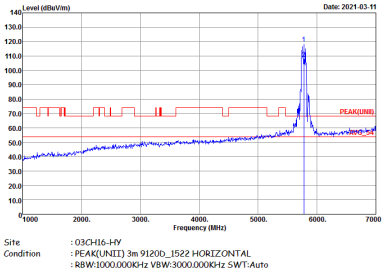
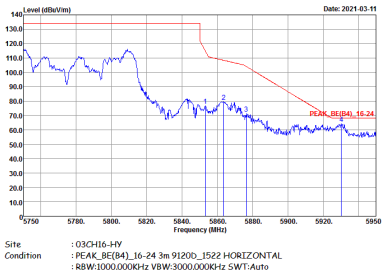
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

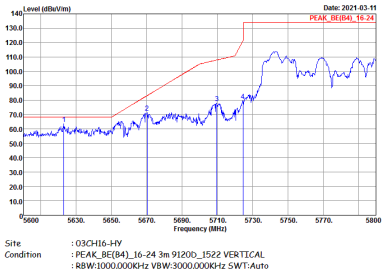
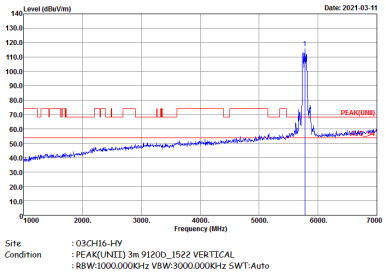
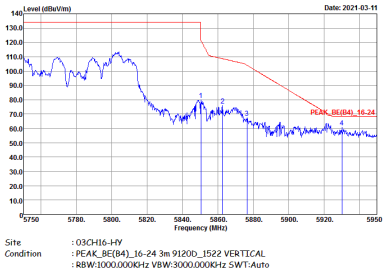
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

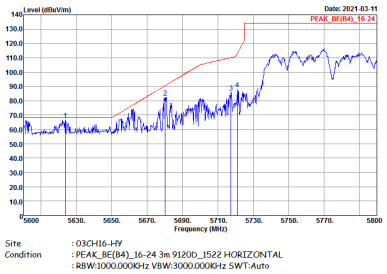
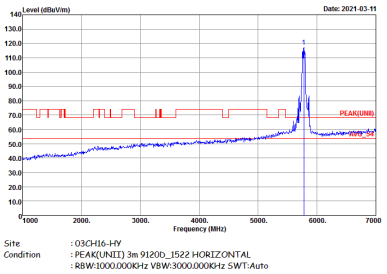
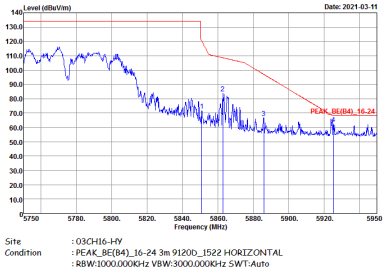
WIFI 802.11ax HE80 M unmod tone (Band Edge @ 3m)

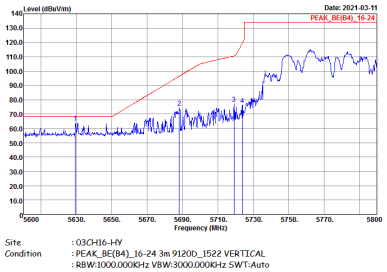
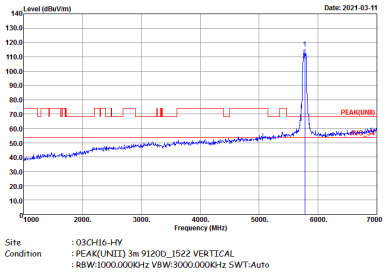
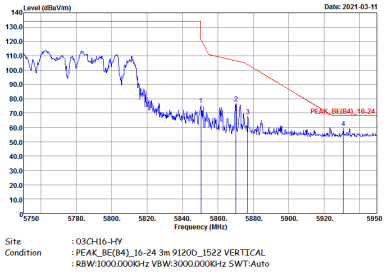
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 M unmod tone CH155 5775MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 M unmod tone CH155 5775MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

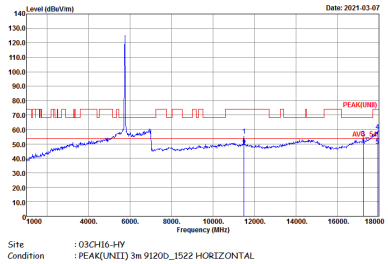
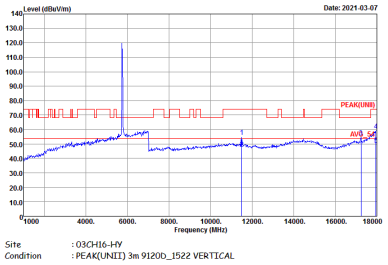
WIFI 802.11ax HE80 BE unmod tone (Band Edge @ 3m)

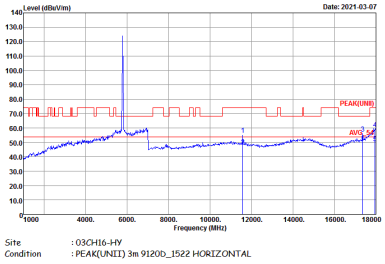
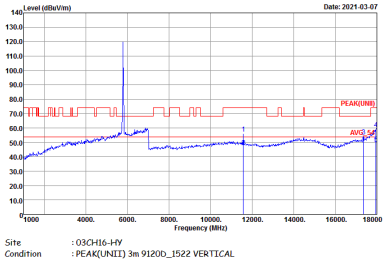
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 BE unmod tone CH155 5775MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

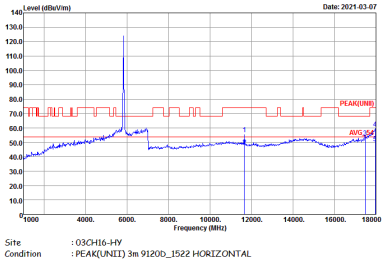
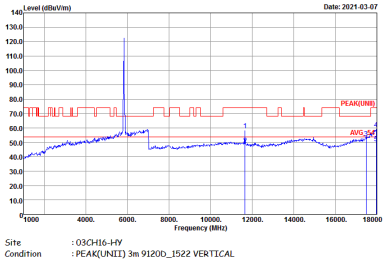
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 BE unmod tone CH155 5775MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

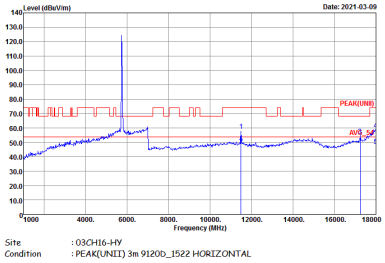
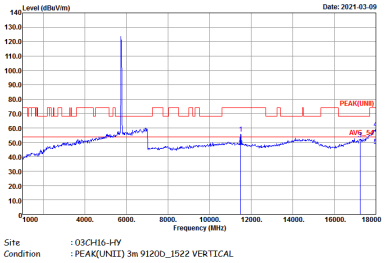
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

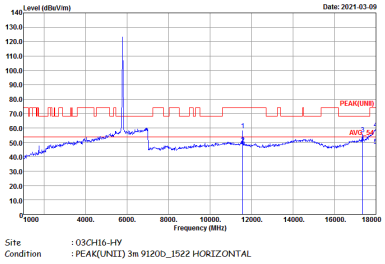
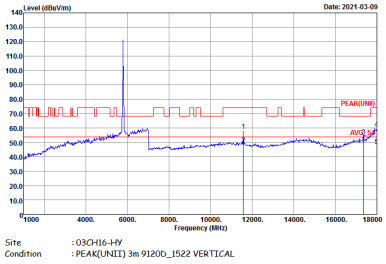
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
10+11+12+13	Horizontal	Vertical
Peak Avg.		

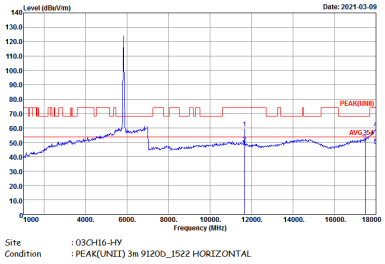
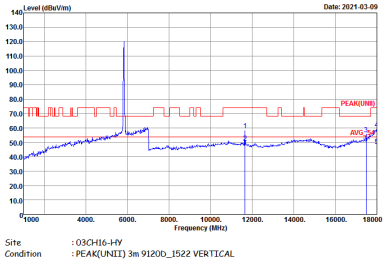
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
10+11+12+13	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

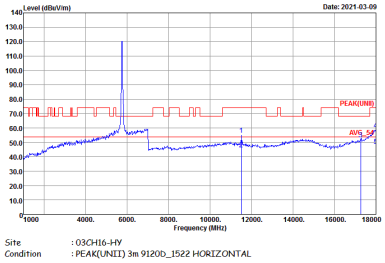
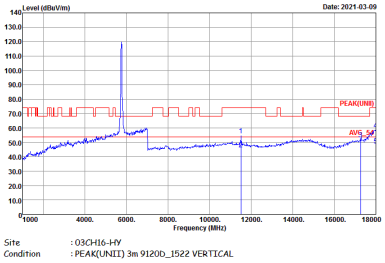
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

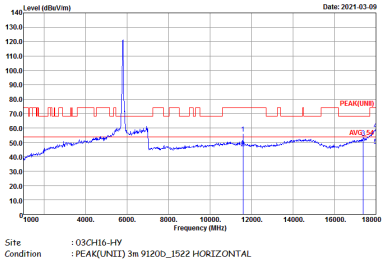
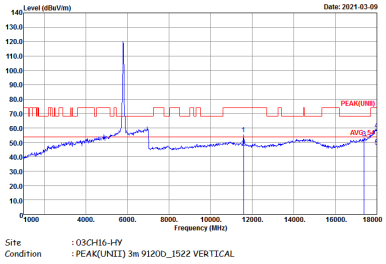
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
10+11+12+13	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

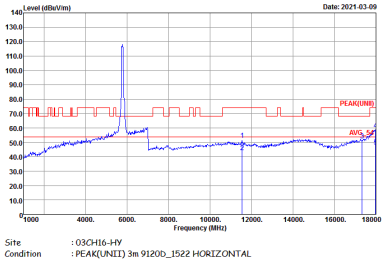
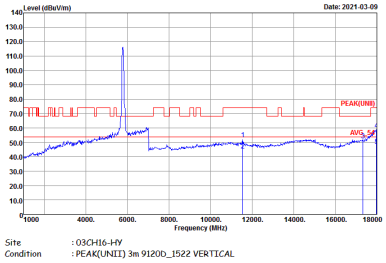
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
10+11+12+13	Horizontal	Vertical
Peak Avg.		

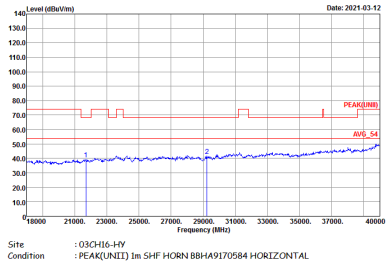
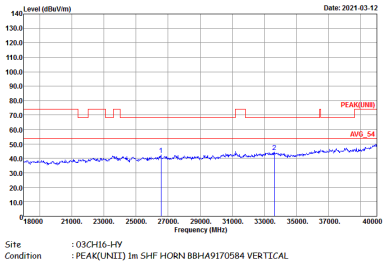
Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
10+11+12+13	Horizontal	Vertical
Peak Avg.		

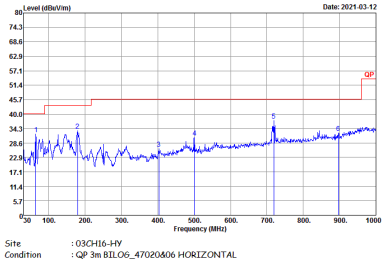
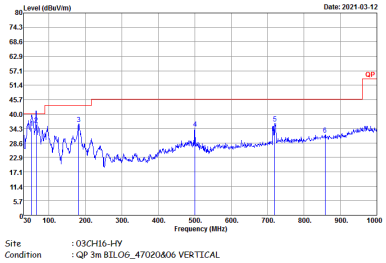
Emission above 18GHz

5GHz WIFI 802.11ax HE80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 SHF	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

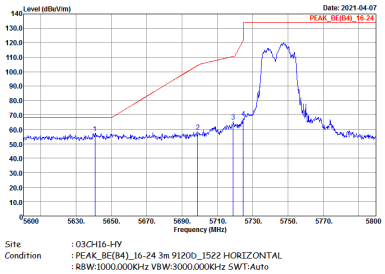
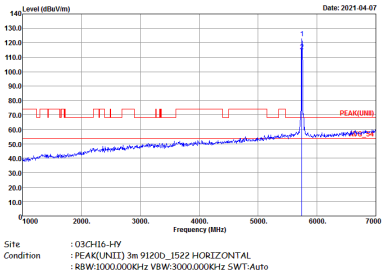
5GHz WIFI 802.11ax HE80 (LF)

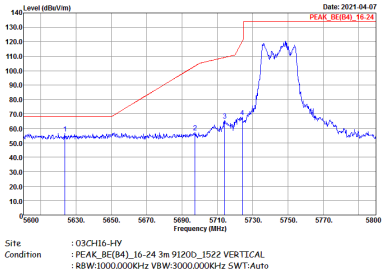
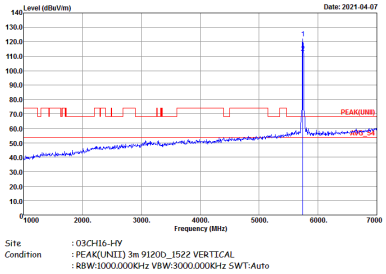
WIFI	5GHz WIFI	
ANT	802.11ax HE80 LF	
10+11+ 12+13	Horizontal	Vertical
QP / Peak		

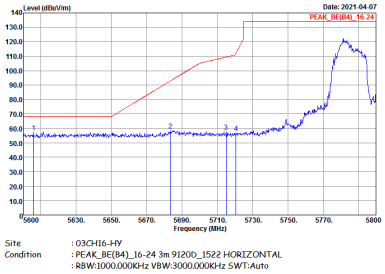
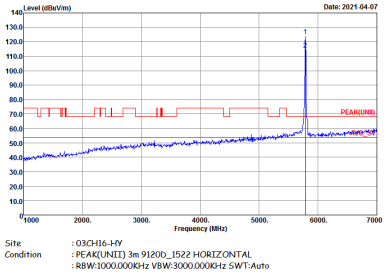
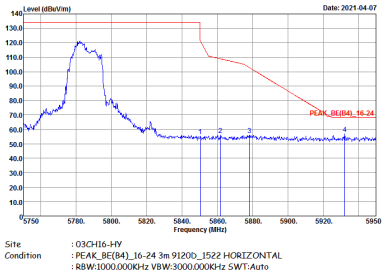
<TXBF Mode>

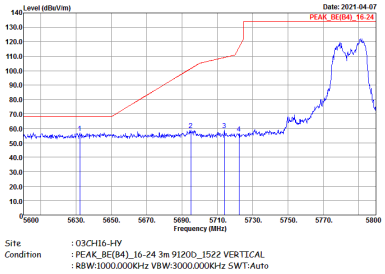
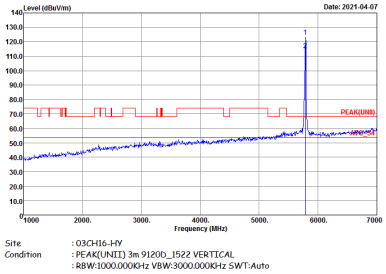
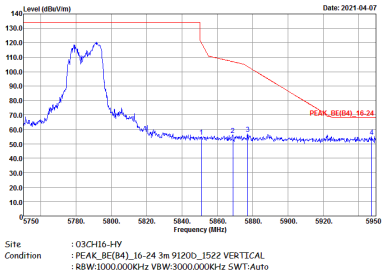
Band 4 - 5725~5850MHz

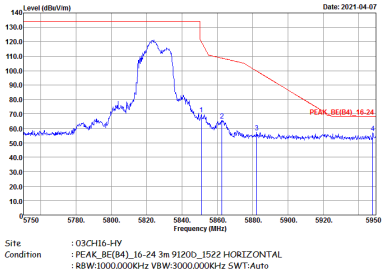
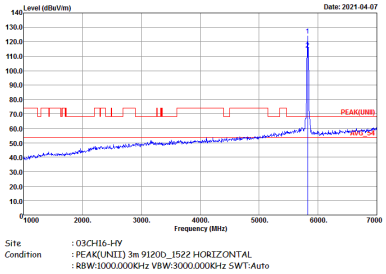
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

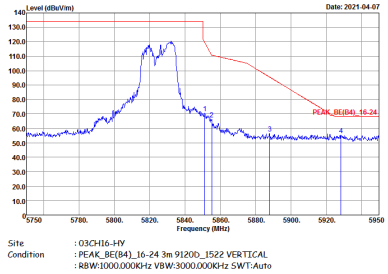
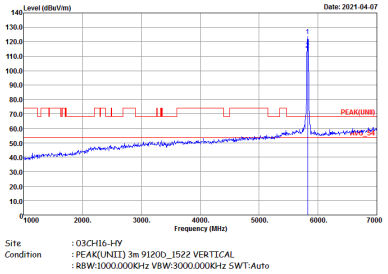
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

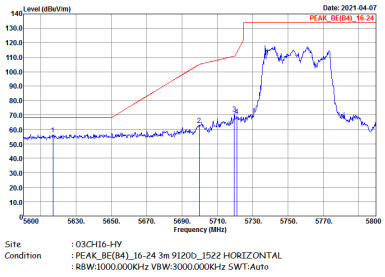
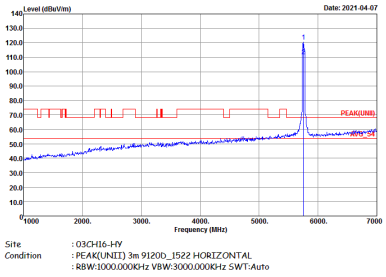
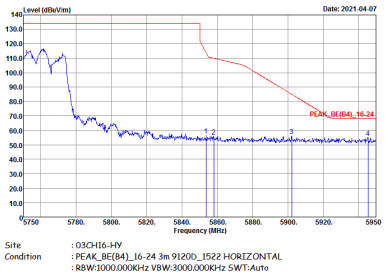
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

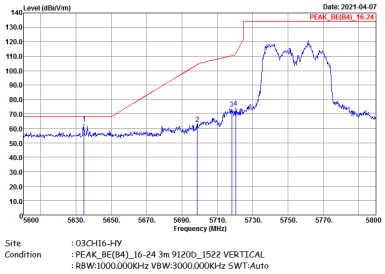
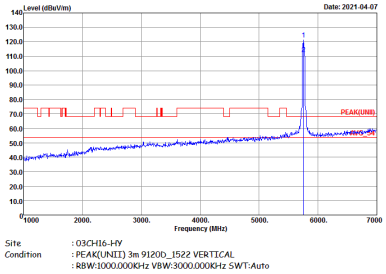
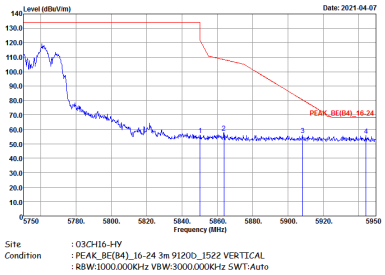
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

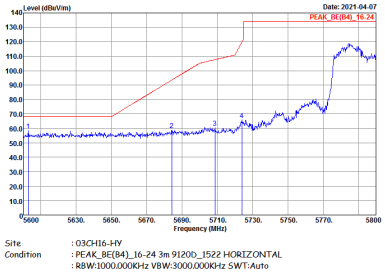
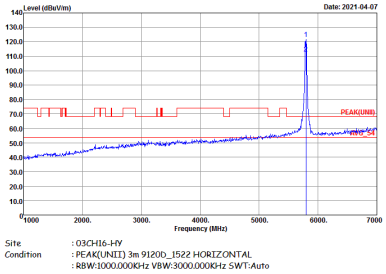
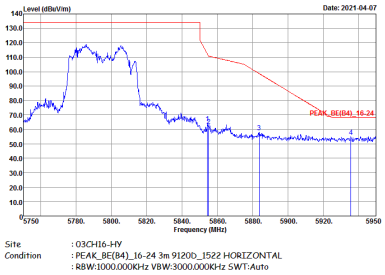
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		

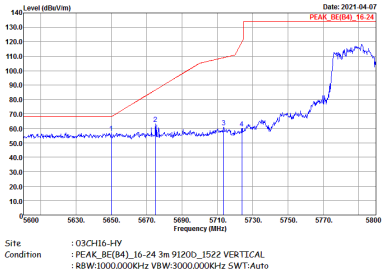
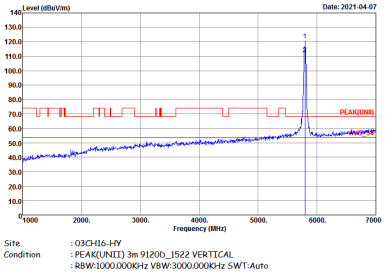
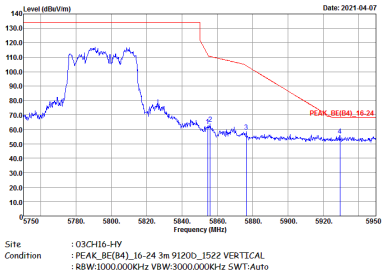
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		

Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

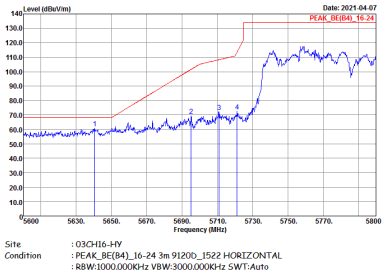
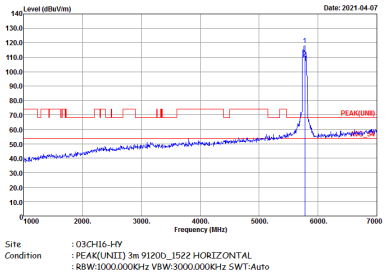
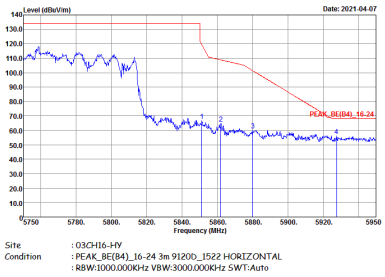
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

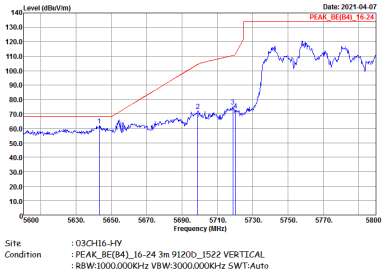
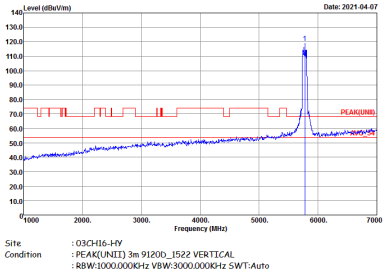
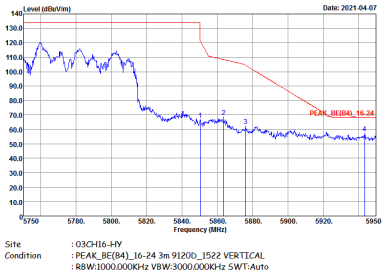
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

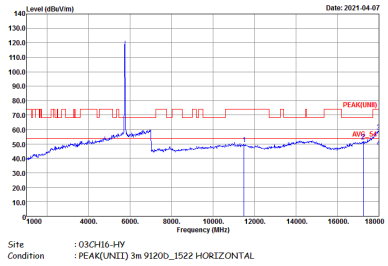
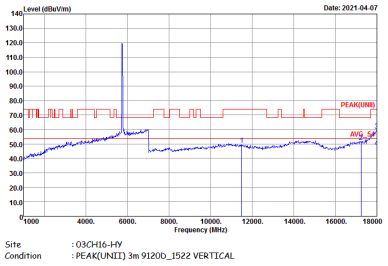
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

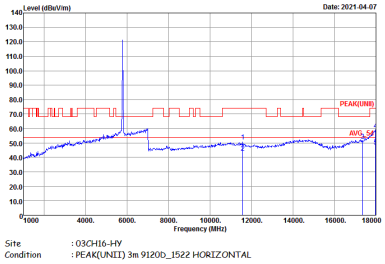
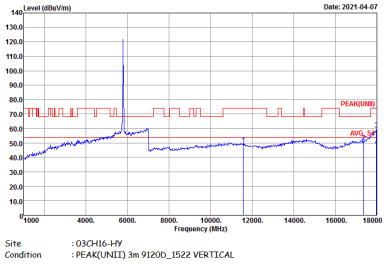
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
10+11+ 12+13	Horizontal	Fundamental
Peak		
Peak		Left blank

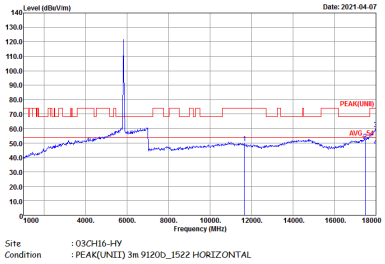
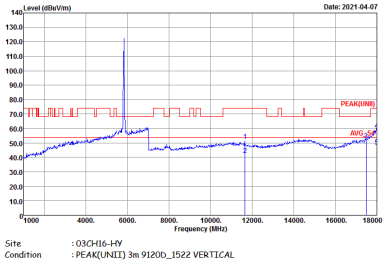
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
10+11+ 12+13	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

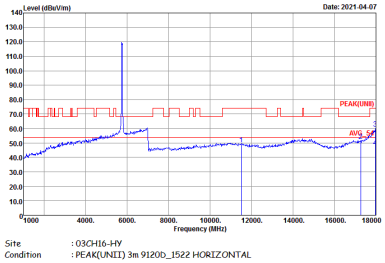
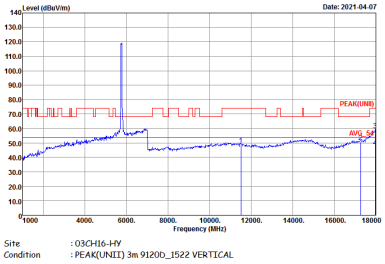
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
10+11+12+13	Horizontal	Vertical
Peak Avg.		

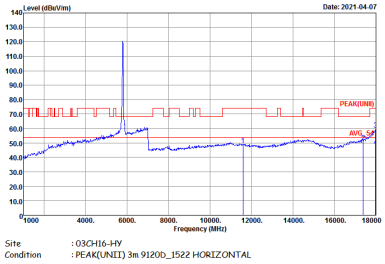
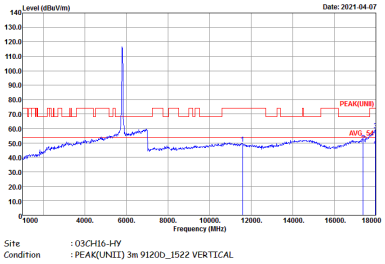
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
10+11+ 12+13	Horizontal	Vertical
Peak Avg.