FCC RADIO TEST REPORT

FCC ID	:	**PY7-08372L**
Equipment	:	**GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, and NFC**
Brand Name	:	**Sony**
Applicant	:	**Sony Mobile Communications Inc. 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan**
Manufacturer	:	**Sony Mobile Communications Inc. 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jul. 01, 2020 and testing was started from Jul. 10, 2020 and completed on Aug. 05, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR042242-02F	01	Initial issue of report	Aug. 14, 2020
FR042242-02F	02	Revise antenna information for test data.	Aug. 24, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.3	15.407 (a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 8.25 dB at 30.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 13.33 dB at 1.580 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: Celery Wei

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac/ax, FM Receiver, NFC and GNSS.

Product Specification subjective to this standard	
Antenna Type / Gain	**<Ant. 0>:** Loop Antenna with gain -3.20 dBi **<Ant. 1>:** Loop Antenna with gain -5.20 dBi

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	9.29	QV7100HL40	RF conducted measurement
	9.29	QV7100BH40	Radiated Spurious Emission
	6.47	QV71008W40	Conducted Emission

Accessory List	
AC Adapter	Model Name : UCH32
	S/N: 6218W30200005
Earphone	Model Name.: STH40D
	S/N : N/A
Bluetooth Earphone	Model Name : SBH82D
	S/N : N/A
USB Cable	Model Name : UCB24
	S/N : N/A

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.
3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	**Sporton Site No.**		
	TH05-HY	CO05-HY	DFS02-HY

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH12-HY

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 (Z 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, 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.

MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Earphone + USB Cable (Charging from AC Adapter)

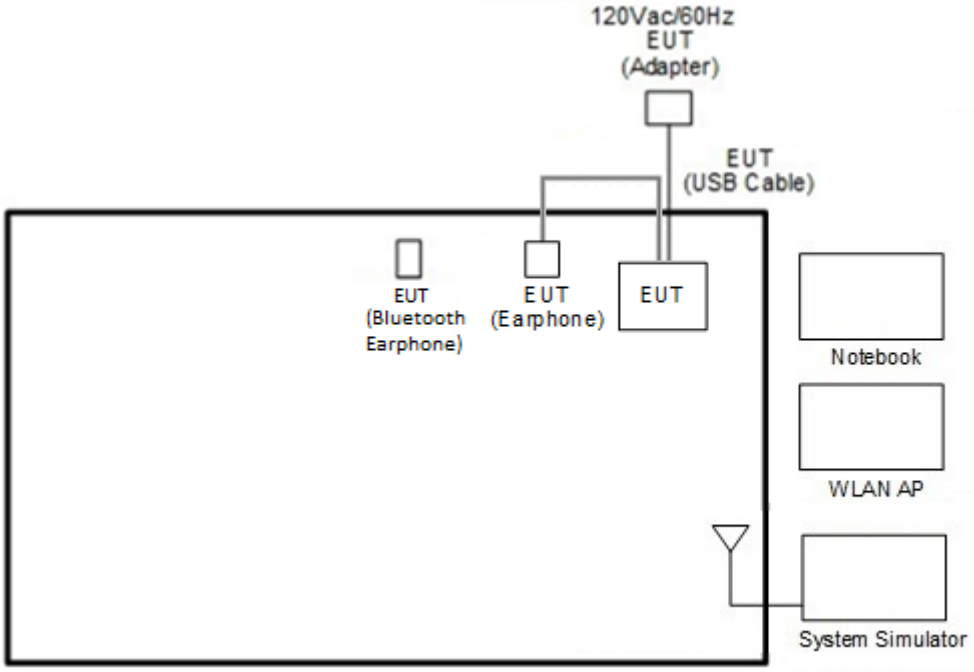
Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

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

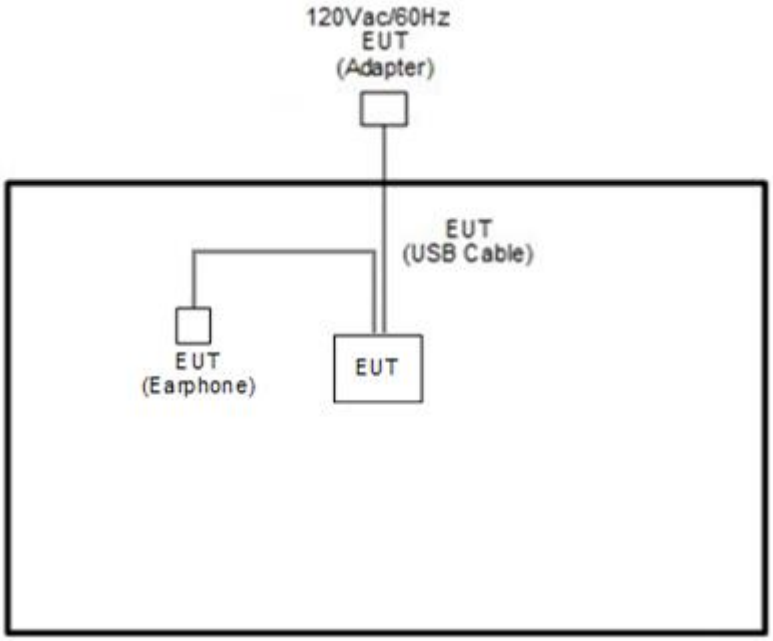
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
4.	Notebook	Dell	Latitude3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “FTMC_bridge V.0.39” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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.

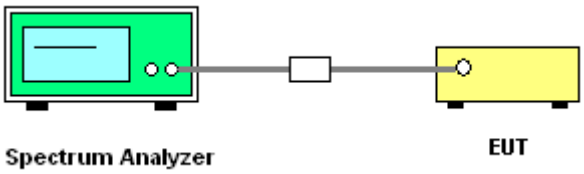
3.1.2 Measuring Instruments

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 5.725-5.85GHz
2. Set RBW = 100kHz.
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.

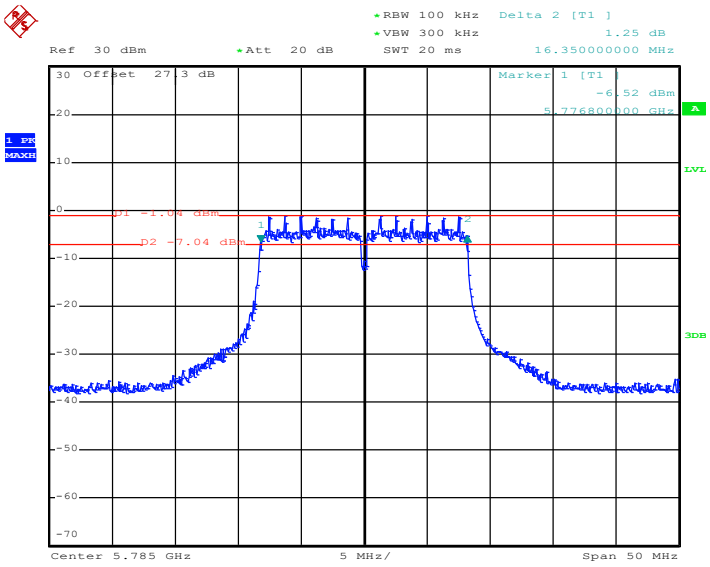
3.1.4 Test Setup



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

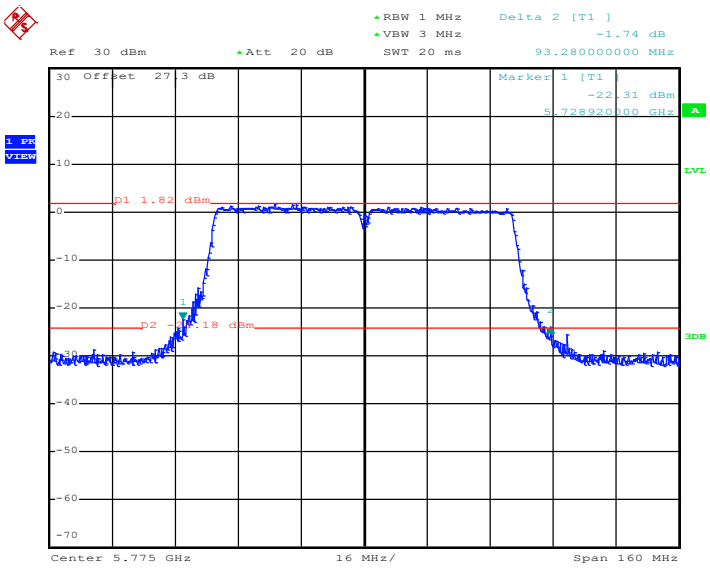
Please refer to Appendix A.

Minimum 6dB Bandwidth



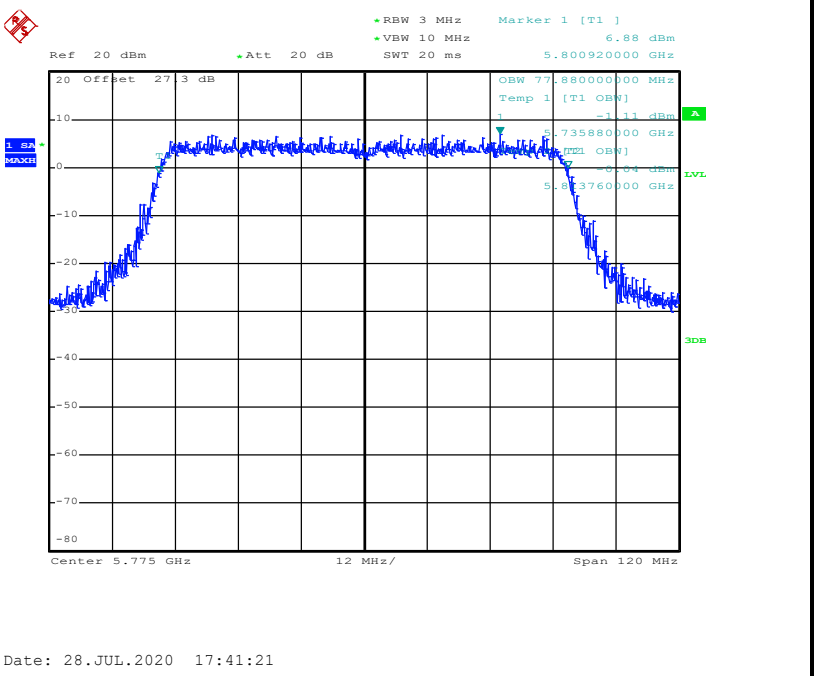
Date: 28.JUL.2020 15:53:59

Maximum 26dB Bandwidth



Date: 28.JUL.2020 17:36:11

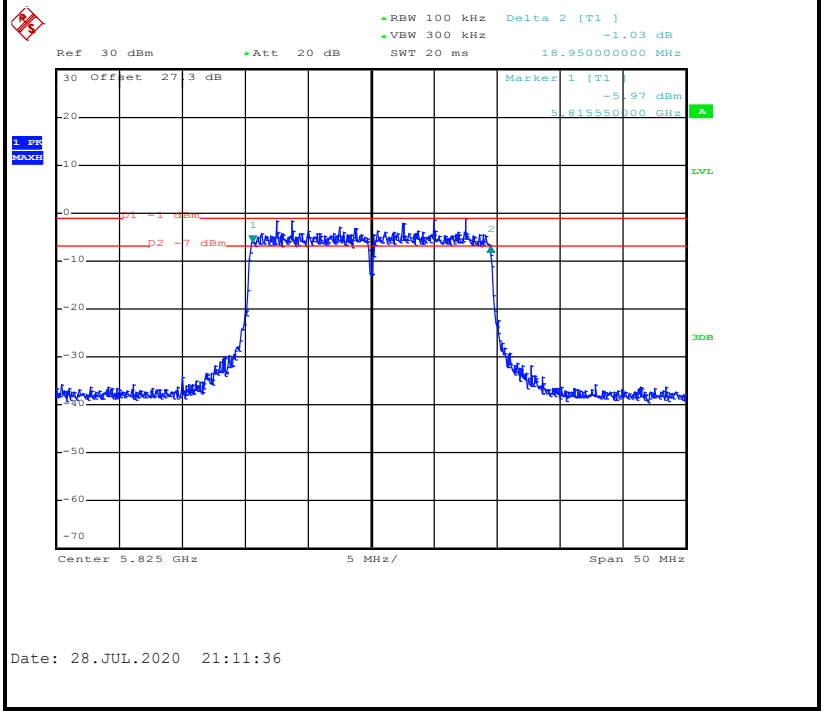
Maximum 99% Occupied Bandwidth



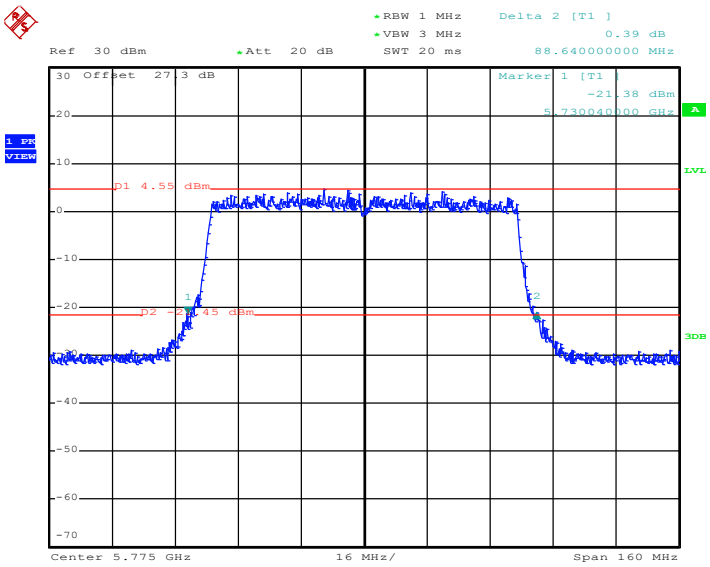
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<For Full Loaded RUs>

Minimum 6dB Bandwidth

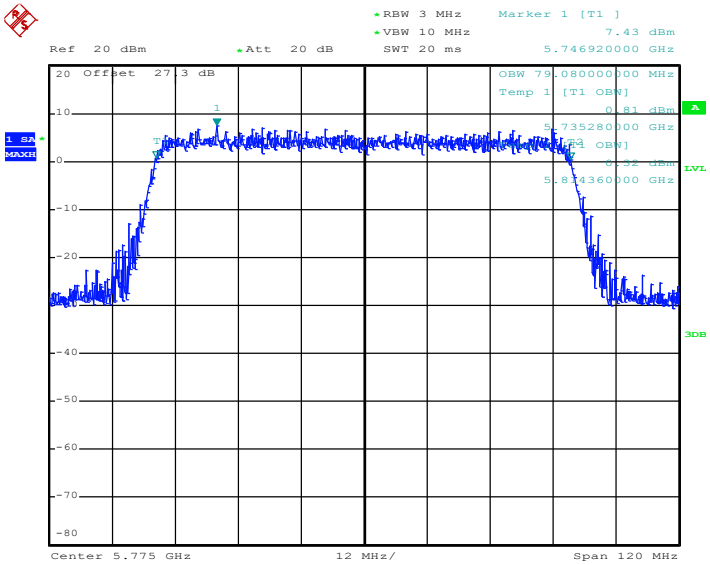


Maximum 26dB Bandwidth



Date: 28.JUL.2020 22:35:39

Maximum 99% Occupied Bandwidth



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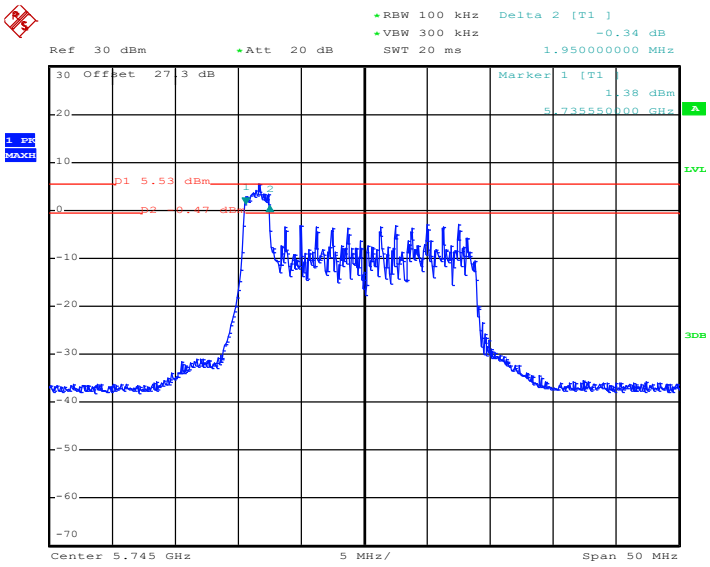
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<For Partially Loaded RUs>

Minimum 6dB Bandwidth



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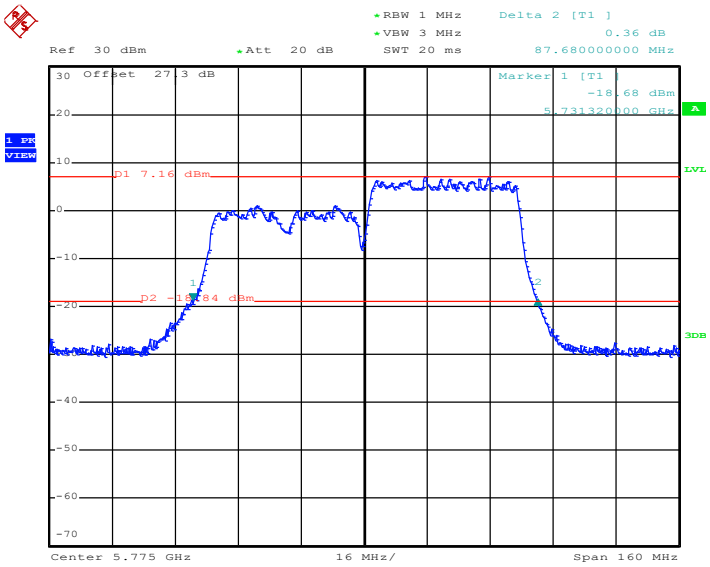
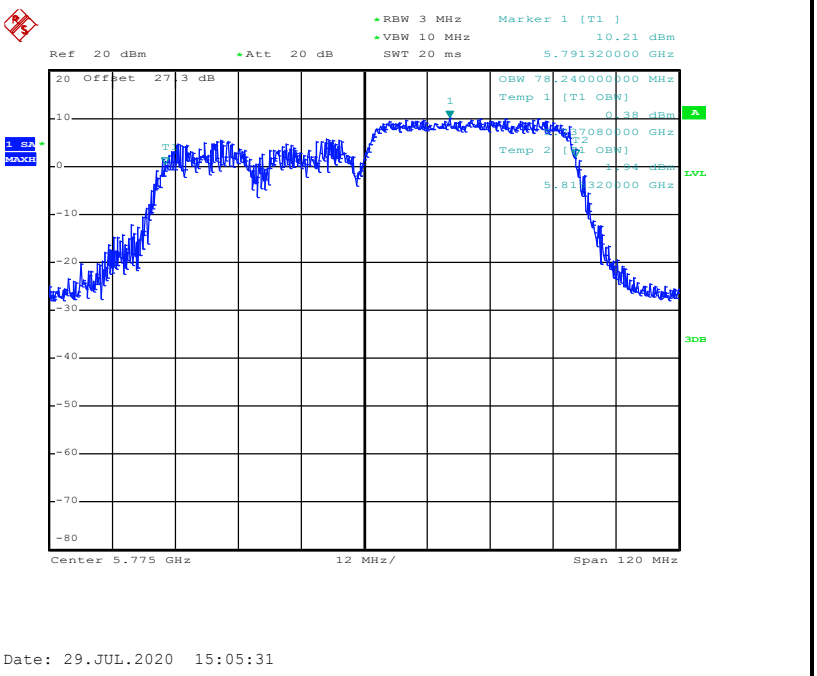
Maximum 26dB Bandwidth



Date: 29.JUL.2020 14:59:03

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.

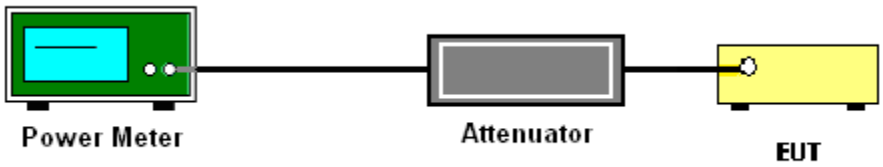
3.2.3 Test Procedures

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

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):

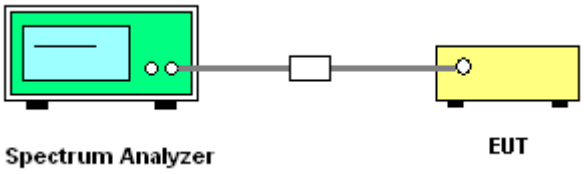
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which 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.

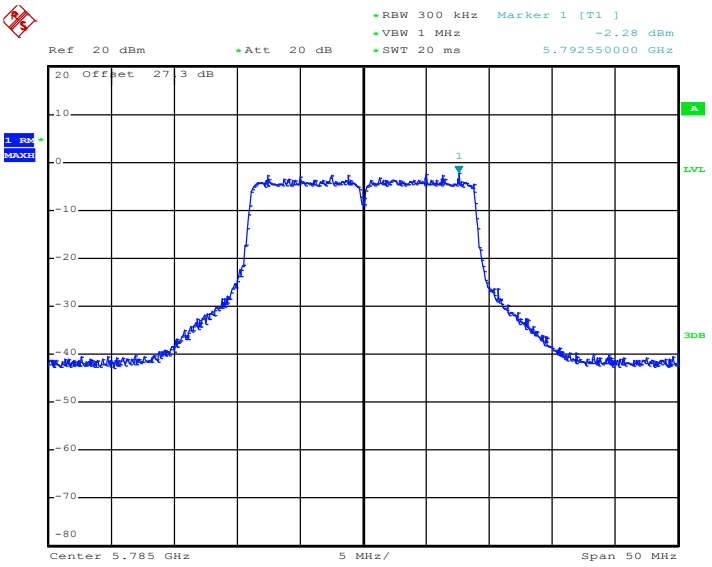
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz) for MIMO Ant. 0



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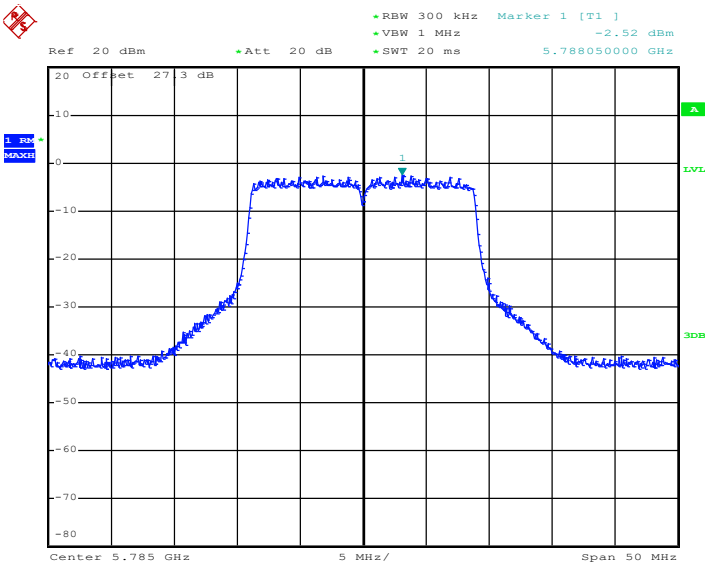
Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



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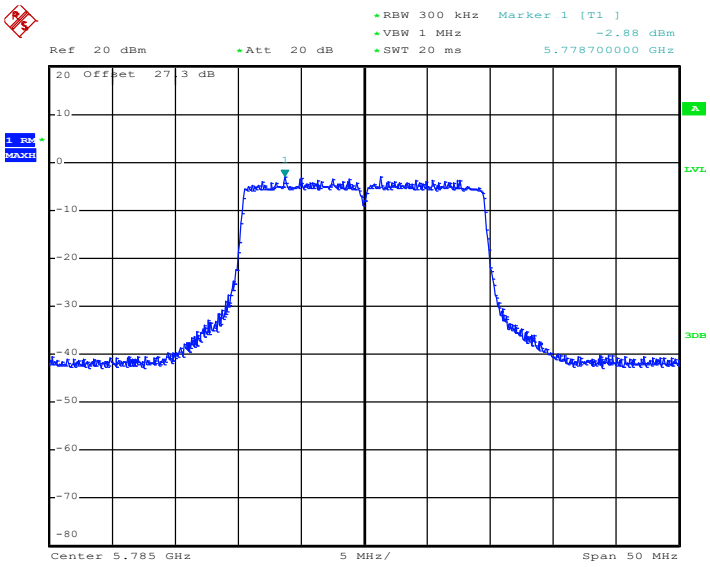
<For Full Loaded RUs>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 0



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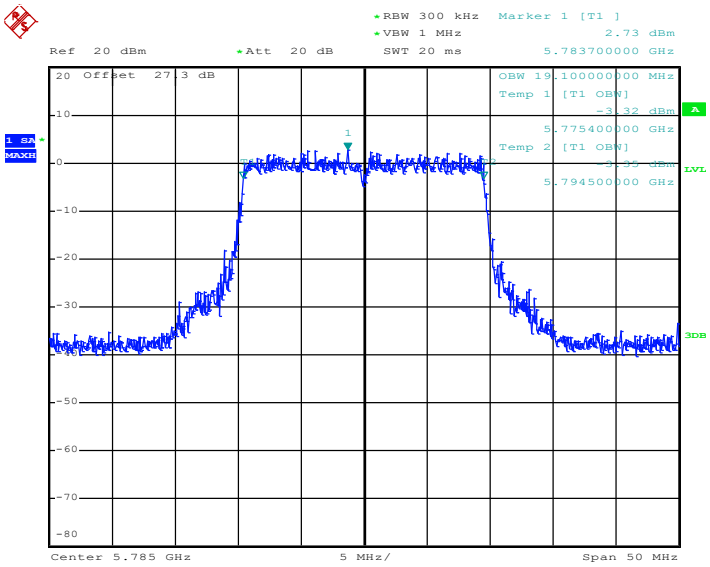
Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



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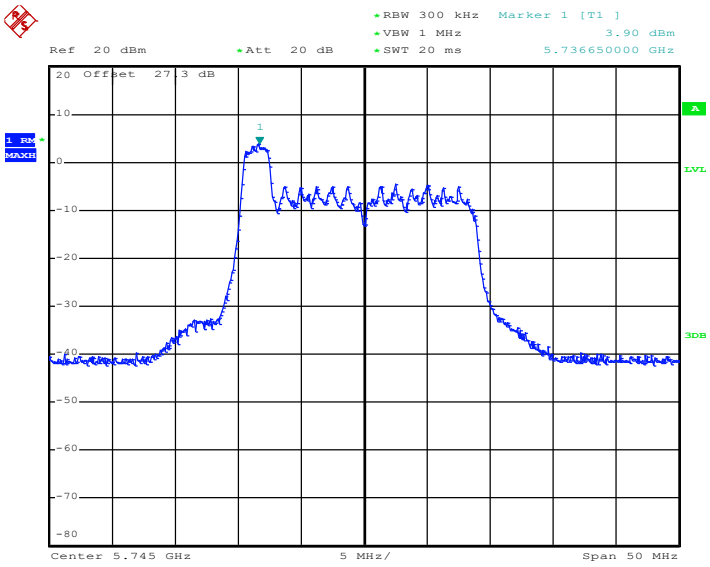
<For Partially Loaded RUs>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 0



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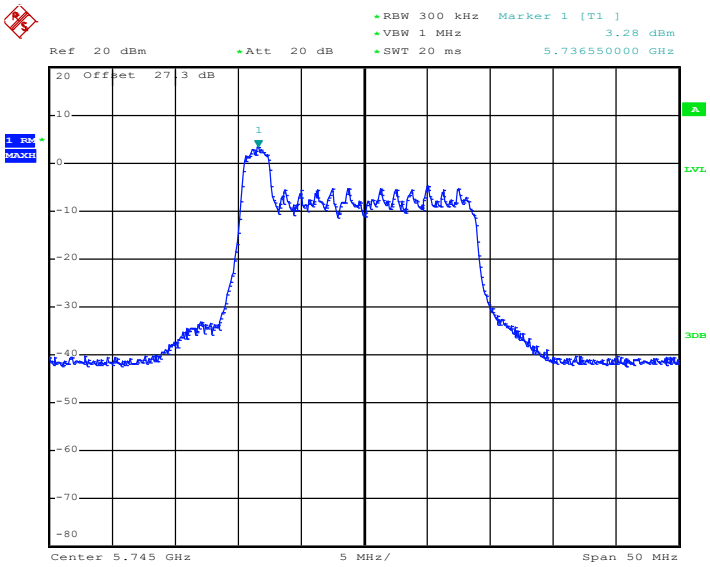
Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



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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 1000MHz

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

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

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

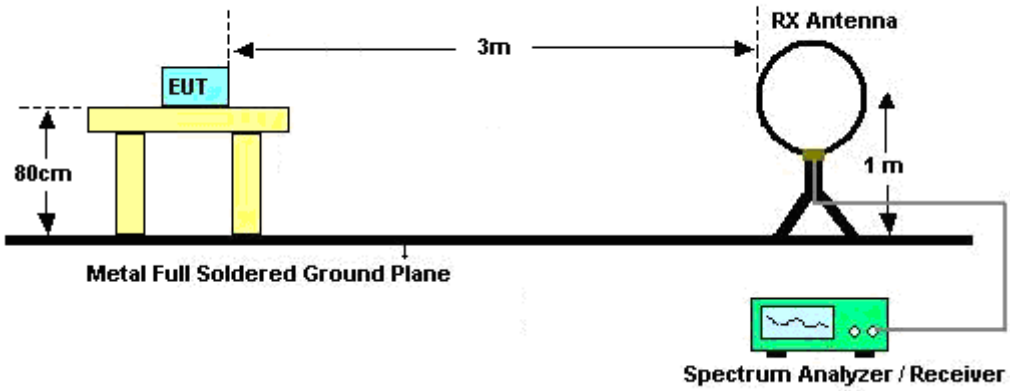
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

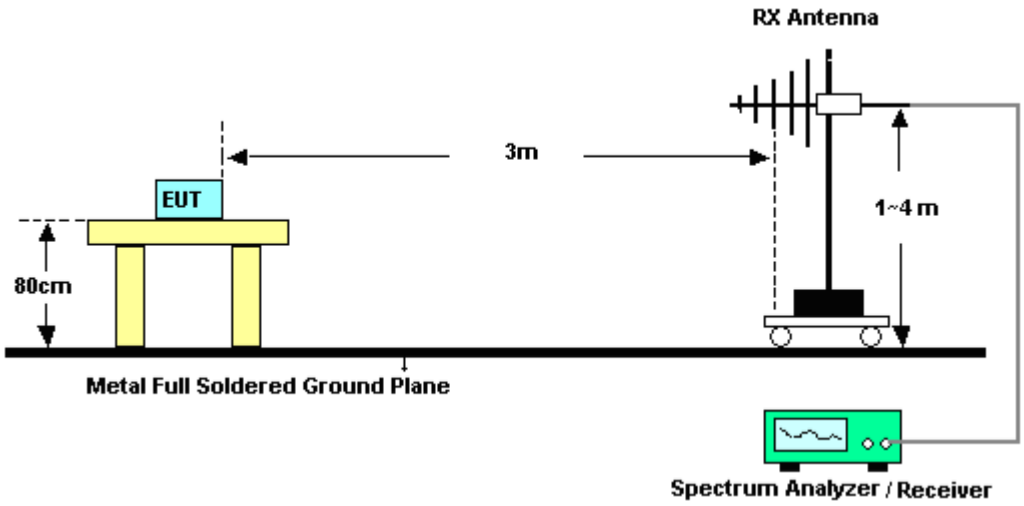
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

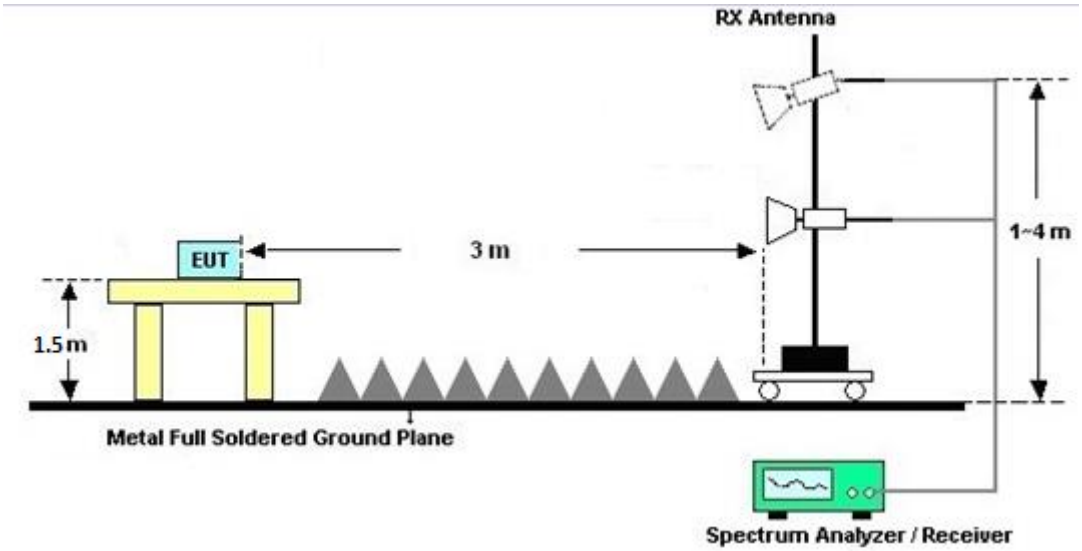
For radiated emissions below 30MHz



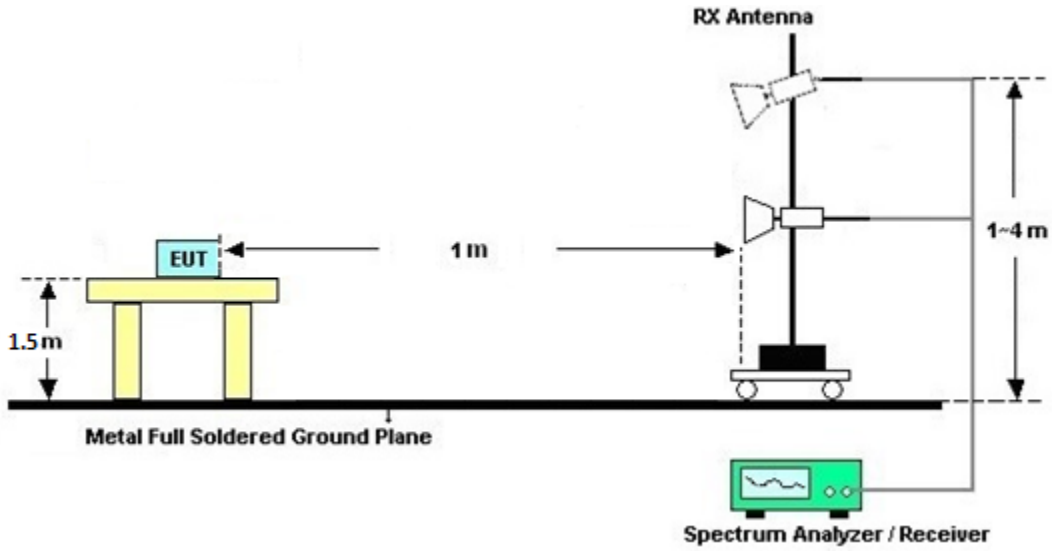
For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



For radiated emissions above 18GHz



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

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

There is 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.

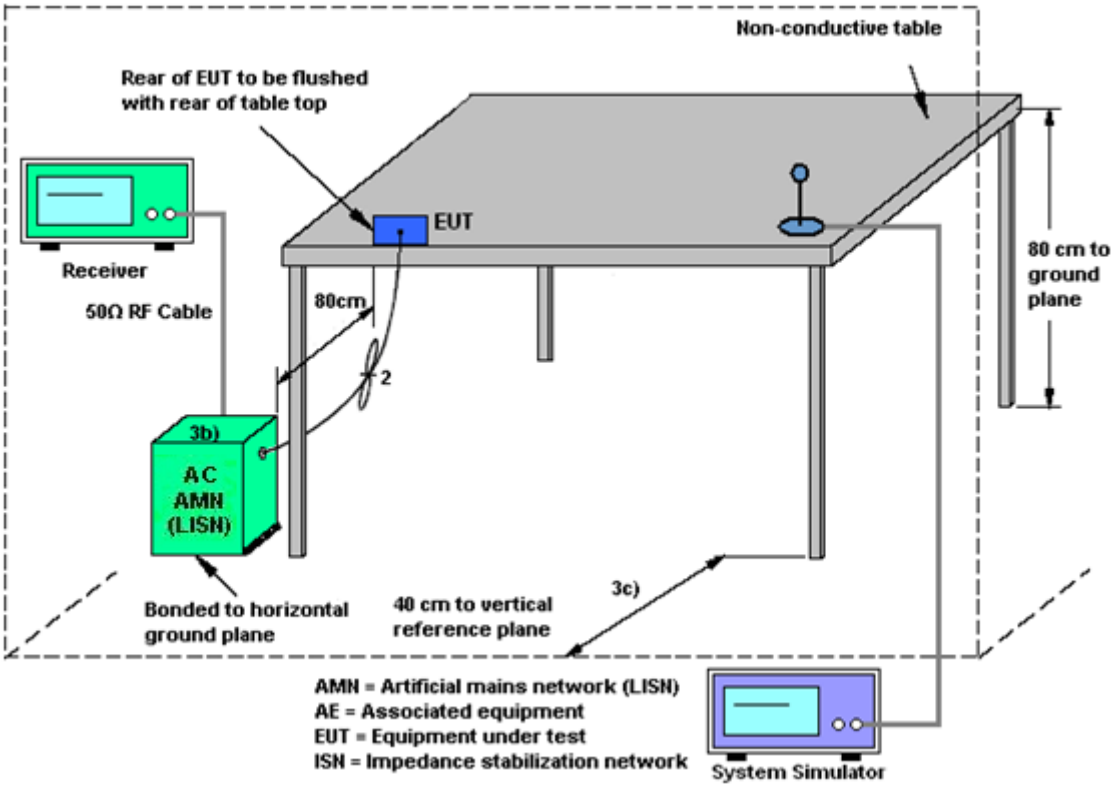
3.5.2 Measuring Instruments

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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

EUT is verified this characteristic during the function check of normal sample associated with an access point:

A. Information start: make EUT supply information to the access point.

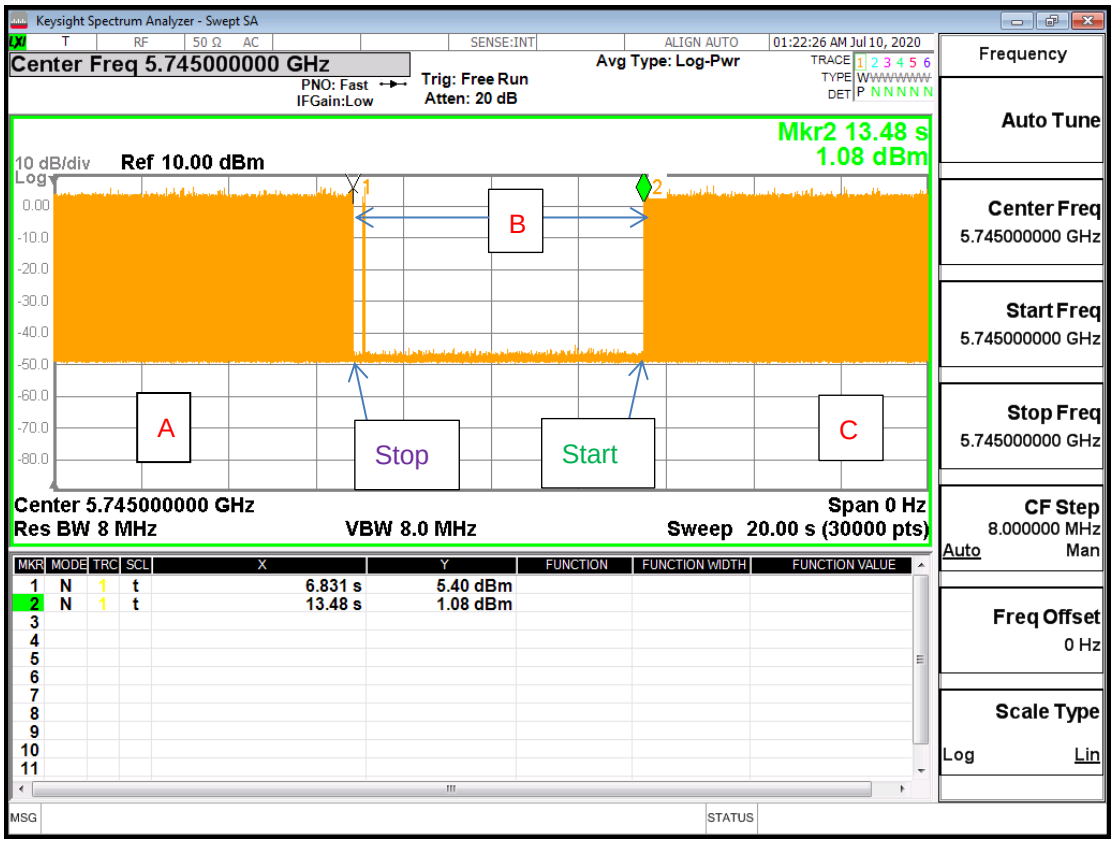
B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5745MHz



Note: The control / signalling information during the period B is precluded.

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

<CDD Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)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.

<CDD Modes>

	Ant. 0 (dBi)	Ant. 1 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	-3.20	-5.20	-3.20	-1.13	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Aug. 01, 2020~ Aug. 05, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	Aug. 01, 2020~ Aug. 05, 2020	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 8	1GHz~18GHz	Nov. 14, 2019	Aug. 01, 2020~ Aug. 05, 2020	Nov. 13, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz~40GHz	Dec. 10, 2019	Aug. 01, 2020~ Aug. 05, 2020	Dec. 09, 2020	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Aug. 01, 2020~ Aug. 05, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A023 75	1GHz~26.5GHz	Mar. 26, 2020	Aug. 01, 2020~ Aug. 05, 2020	Mar. 25, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03K	171000180 0054002	1GHz~18GHz	Feb. 07, 2020	Aug. 01, 2020~ Aug. 05, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Aug. 01, 2020~ Aug. 05, 2020	Dec. 12, 2020	Radiation (03CH12-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	103738	10Hz~30GHz	May 14, 2020	Aug. 01, 2020~ Aug. 05, 2020	May 13, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101408	10Hz~40GHz	Aug. 13, 2019	Aug. 01, 2020~ Aug. 05, 2020	Aug. 12, 2020	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMB100A	101107	100kHz~40GHz	Aug. 27, 2019	Aug. 01, 2020~ Aug. 05, 2020	Aug. 26, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 12, 2019	Aug. 01, 2020~ Aug. 05, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 25, 2020	Aug. 01, 2020~ Aug. 05, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 25, 2020	Aug. 01, 2020~ Aug. 05, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 25, 2019	Aug. 01, 2020~ Aug. 05, 2020	Oct. 24, 2020	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 21, 2020	Jul. 31, 2020~ Aug. 06, 2020	Mar. 20, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN2	6.75GHz High Pass Filter	Mar. 18, 2020	Aug. 01, 2020~ Aug. 05, 2020	Mar. 17, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 01, 2020~ Aug. 05, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 01, 2020~ Aug. 05, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 01, 2020~ Aug. 05, 2020	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Aug. 01, 2020~ Aug. 05, 2020	N/A	Radiation (03CH12-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Jul. 14, 2020~ Jul. 29, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 23, 2019	Jul. 14, 2020~ Jul. 29, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Jul. 14, 2020~ Jul. 29, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Aug. 22, 2019	Jul. 14, 2020~ Jul. 29, 2020	Aug. 21, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 24, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Jul. 24, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Jul. 24, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Jul. 24, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 24, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Jul. 24, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Jul. 24, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 27, 2019	Jul. 10, 2020	Aug. 26, 2020	DFS (DFS02-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))	4.9

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.6

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kathy Chen	Temperature:	23.5~24.1	°C
Test Date:	2020/7/14~2020/07/29	Relative Humidity:	52.9~53.6	%

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

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant0	Ant1	Ant0	Ant1	Ant0	Ant1		
11a	6Mbps	2	149	5745	16.75	16.75	26.70	26.50	16.35	16.35	0.5	Pass
11a	6Mbps	2	157	5785	16.90	16.75	27.00	26.75	16.35	16.40	0.5	Pass
11a	6Mbps	2	165	5825	16.85	16.75	27.10	26.65	16.35	16.35	0.5	Pass
HT20	MCS0	2	149	5745	17.90	17.85	27.85	26.90	17.60	17.60	0.5	Pass
HT20	MCS0	2	157	5785	17.85	17.85	27.50	27.35	17.60	17.65	0.5	Pass
HT20	MCS0	2	165	5825	17.95	17.85	27.30	27.20	17.60	17.60	0.5	Pass
HT40	MCS0	2	151	5755	36.90	36.90	48.96	49.23	36.36	36.36	0.5	Pass
HT40	MCS0	2	159	5795	37.00	36.80	48.87	48.96	36.36	36.36	0.5	Pass
VHT80	MCS0	2	155	5775	77.88	77.52	93.28	89.92	76.48	76.48	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	
11a	6Mbps	1	149	5745	11.10	11.00		30.00	30.00	-3.20	-5.20	Pass
11a	6Mbps	1	157	5785	11.20	11.20		30.00	30.00	-3.20	-5.20	Pass
11a	6Mbps	1	165	5825	11.10	11.10		30.00	30.00	-3.20	-5.20	Pass
HT20	MCS0	1	149	5745	11.30	11.10		30.00	30.00	-3.20	-5.20	Pass
HT20	MCS0	1	157	5785	11.40	11.10		30.00	30.00	-3.20	-5.20	Pass
HT20	MCS0	1	165	5825	11.10	11.40		30.00	30.00	-3.20	-5.20	Pass
HT40	MCS0	1	151	5755	11.10	11.10		30.00	30.00	-3.20	-5.20	Pass
HT40	MCS0	1	159	5795	11.10	11.30		30.00	30.00	-3.20	-5.20	Pass
VHT20	MCS0	1	149	5745	11.20	11.00		30.00	30.00	-3.20	-5.20	Pass
VHT20	MCS0	1	157	5785	11.30	11.00		30.00	30.00	-3.20	-5.20	Pass
VHT20	MCS0	1	165	5825	11.00	11.30		30.00	30.00	-3.20	-5.20	Pass
VHT40	MCS0	1	151	5755	11.00	11.00		30.00	30.00	-3.20	-5.20	Pass
VHT40	MCS0	1	159	5795	11.00	11.20		30.00	30.00	-3.20	-5.20	Pass
VHT80	MCS0	1	155	5775	11.10	11.20		30.00	30.00	-3.20	-5.20	Pass

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	
11a	6Mbps	2	149	5745	11.20	11.20	14.21	30.00		-3.20		Pass
11a	6Mbps	2	157	5785	11.30	11.30	14.31	30.00		-3.20		Pass
11a	6Mbps	2	165	5825	11.20	11.20	14.21	30.00		-3.20		Pass
HT20	MCS0	2	149	5745	11.40	11.20	14.31	30.00		-3.20		Pass
HT20	MCS0	2	157	5785	11.50	11.20	14.36	30.00		-3.20		Pass
HT20	MCS0	2	165	5825	11.20	11.50	14.36	30.00		-3.20		Pass
HT40	MCS0	2	151	5755	11.20	11.20	14.21	30.00		-3.20		Pass
HT40	MCS0	2	159	5795	11.20	11.40	14.31	30.00		-3.20		Pass
VHT20	MCS0	2	149	5745	11.30	11.10	14.21	30.00		-3.20		Pass
VHT20	MCS0	2	157	5785	11.40	11.10	14.26	30.00		-3.20		Pass
VHT20	MCS0	2	165	5825	11.10	11.40	14.26	30.00		-3.20		Pass
VHT40	MCS0	2	151	5755	11.10	11.10	14.11	30.00		-3.20		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant0	Ant1	Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	
11a	6Mbps	2	149	5745	2.22		-0.46	-0.48	2.55	30.00		-1.13		Pass
11a	6Mbps	2	157	5785	2.22		-0.21	-0.23	2.80	30.00		-1.13		Pass
11a	6Mbps	2	165	5825	2.22		-0.37	-0.12	2.89	30.00		-1.13		Pass
HT20	MCS0	2	149	5745	2.22		-0.26	-0.61	2.75	30.00		-1.13		Pass
HT20	MCS0	2	157	5785	2.22		-0.06	-0.30	2.95	30.00		-1.13		Pass
HT20	MCS0	2	165	5825	2.22		-0.41	-0.43	2.60	30.00		-1.13		Pass
HT40	MCS0	2	151	5755	2.22		-3.78	-3.66	-0.65	30.00		-1.13		Pass
HT40	MCS0	2	159	5795	2.22		-3.91	-3.32	-0.31	30.00		-1.13		Pass
VHT80	MCS0	2	155	5775	2.22		-6.93	-6.75	-3.74	30.00		-1.13		Pass

Note: PSD Sum = Max PSD(Ant0, Ant1) + 10 log (n)

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

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant0	Ant1	Ant0	Ant1	Ant0	Ant1		
HE20	MCS0	2	149	5745	Full	19.10	19.15	25.05	26.40	19.00	19.00	0.5	Pass
HE20	MCS0	2	149	5745	26/0	18.45	18.45	21.95	21.75	2.05	1.95	0.5	Pass
HE20	MCS0	2	149	5745	52/37	18.35	18.25	23.35	21.50	17.05	17.00	0.5	Pass
HE20	MCS0	2	149	5745	106/53	18.15	18.25	24.20	23.25	17.10	18.10	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.10	19.10	25.15	26.05	19.00	19.00	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.10	19.10	25.90	26.20	18.95	18.95	0.5	Pass
HE20	MCS0	2	165	5825	26/8	18.50	18.45	21.65	21.10	2.05	2.05	0.5	Pass
HE20	MCS0	2	165	5825	52/40	18.35	18.15	23.40	22.95	17.00	17.00	0.5	Pass
HE20	MCS0	2	165	5825	106/54	18.25	18.20	23.85	23.80	17.15	17.15	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.30	38.30	45.72	45.45	38.07	37.98	0.5	Pass
HE40	MCS0	2	151	5755	242/61	37.60	37.70	44.64	44.01	36.63	36.63	0.5	Pass
HE40	MCS0	2	159	5795	Full	38.20	38.30	46.98	46.26	38.16	38.07	0.5	Pass
HE40	MCS0	2	159	5795	242/62	37.70	37.70	44.10	43.65	36.63	36.63	0.5	Pass
HE80	MCS0	2	155	5775	Full	79.08	78.84	87.52	88.64	78.08	77.92	0.5	Pass
HE80	MCS0	2	155	5775	484/65	78.00	77.88	84.80	83.99	76.72	76.56	0.5	Pass
HE80	MCS0	2	155	5775	484/66	78.24	78.12	87.68	86.72	76.64	76.64	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	1	149	5745	Full	11.10	11.20		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	149	5745	26/0	8.70	8.50		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	149	5745	52/37	11.30	11.40		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	149	5745	106/53	11.40	11.00		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	157	5785	Full	11.20	11.20		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	165	5825	Full	11.10	11.10		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	165	5825	26/8	8.50	8.80		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	165	5825	52/40	11.20	11.20		30.00	30.00	-3.20	-5.20	Pass
HE20	MCS0	1	165	5825	106/54	11.20	11.30		30.00	30.00	-3.20	-5.20	Pass
HE40	MCS0	1	151	5755	Full	11.10	11.20		30.00	30.00	-3.20	-5.20	Pass
HE40	MCS0	1	151	5755	242/61	10.80	10.60		30.00	30.00	-3.20	-5.20	Pass
HE40	MCS0	1	159	5795	Full	11.10	11.30		30.00	30.00	-3.20	-5.20	Pass
HE40	MCS0	1	159	5795	242/62	10.80	10.50		30.00	30.00	-3.20	-5.20	Pass
HE80	MCS0	1	155	5775	Full	11.30	11.10		30.00	30.00	-3.20	-5.20	Pass
HE80	MCS0	1	155	5775	484/65	10.90	10.80		30.00	30.00	-3.20	-5.20	Pass
HE80	MCS0	1	155	5775	484/66	10.90	10.80		30.00	30.00	-3.20	-5.20	Pass

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	2	149	5745	Full	11.20	11.30	14.26	30.00		-3.20		Pass
HE20	MCS0	2	149	5745	26/0	8.90	8.60	11.76	30.00		-3.20		Pass
HE20	MCS0	2	149	5745	52/37	11.40	11.50	14.46	30.00		-3.20		Pass
HE20	MCS0	2	149	5745	106/53	11.50	11.10	14.31	30.00		-3.20		Pass
HE20	MCS0	2	157	5785	Full	11.30	11.30	14.31	30.00		-3.20		Pass
HE20	MCS0	2	165	5825	Full	11.20	11.20	14.21	30.00		-3.20		Pass
HE20	MCS0	2	165	5825	26/8	8.60	8.90	11.76	30.00		-3.20		Pass
HE20	MCS0	2	165	5825	52/40	11.30	11.30	14.31	30.00		-3.20		Pass
HE20	MCS0	2	165	5825	106/54	11.40	11.40	14.41	30.00		-3.20		Pass
HE40	MCS0	2	151	5755	Full	11.20	11.30	14.26	30.00		-3.20		Pass
HE40	MCS0	2	151	5755	242/61	10.90	10.70	13.81	30.00		-3.20		Pass
HE40	MCS0	2	159	5795	Full	11.20	11.40	14.31	30.00		-3.20		Pass
HE40	MCS0	2	159	5795	242/62	10.90	10.60	13.76	30.00		-3.20		Pass
HE80	MCS0	2	155	5775	Full	11.50	11.20	14.36	30.00		-3.20		Pass
HE80	MCS0	2	155	5775	484/65	11.00	10.90	13.96	30.00		-3.20		Pass
HE80	MCS0	2	155	5775	484/66	11.00	10.90	13.96	30.00		-3.20		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant0	Ant1	Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	2	149	5745	Full	2.22		-0.55	-0.57	2.46	30.00		-1.13		Pass
HE20	MCS0	2	149	5745	26/0	2.22		6.12	5.50	9.13	30.00		-1.13		Pass
HE20	MCS0	2	149	5745	52/37	2.22		4.97	5.04	8.05	30.00		-1.13		Pass
HE20	MCS0	2	149	5745	106/53	2.22		2.28	1.65	5.29	30.00		-1.13		Pass
HE20	MCS0	2	157	5785	Full	2.22		-0.66	-0.54	2.47	30.00		-1.13		Pass
HE20	MCS0	2	165	5825	Full	2.22		-0.56	-0.54	2.47	30.00		-1.13		Pass
HE20	MCS0	2	165	5825	26/8	2.22		4.89	5.83	8.84	30.00		-1.13		Pass
HE20	MCS0	2	165	5825	52/40	2.22		4.95	5.08	8.09	30.00		-1.13		Pass
HE20	MCS0	2	165	5825	106/54	2.22		2.20	2.17	5.21	30.00		-1.13		Pass
HE40	MCS0	2	151	5755	Full	2.22		-3.86	-3.84	-0.83	30.00		-1.13		Pass
HE40	MCS0	2	151	5755	242/61	2.22		-2.17	-2.39	0.84	30.00		-1.13		Pass
HE40	MCS0	2	159	5795	Full	2.22		-3.69	-3.83	-0.68	30.00		-1.13		Pass
HE40	MCS0	2	159	5795	242/62	2.22		-1.65	-1.99	1.36	30.00		-1.13		Pass
HE80	MCS0	2	155	5775	Full	2.22		-6.13	-6.23	-3.12	30.00		-1.13		Pass
HE80	MCS0	2	155	5775	484/65	2.22		-4.47	-4.37	-1.36	30.00		-1.13		Pass
HE80	MCS0	2	155	5775	484/66	2.22		-4.36	-4.57	-1.35	30.00		-1.13		Pass

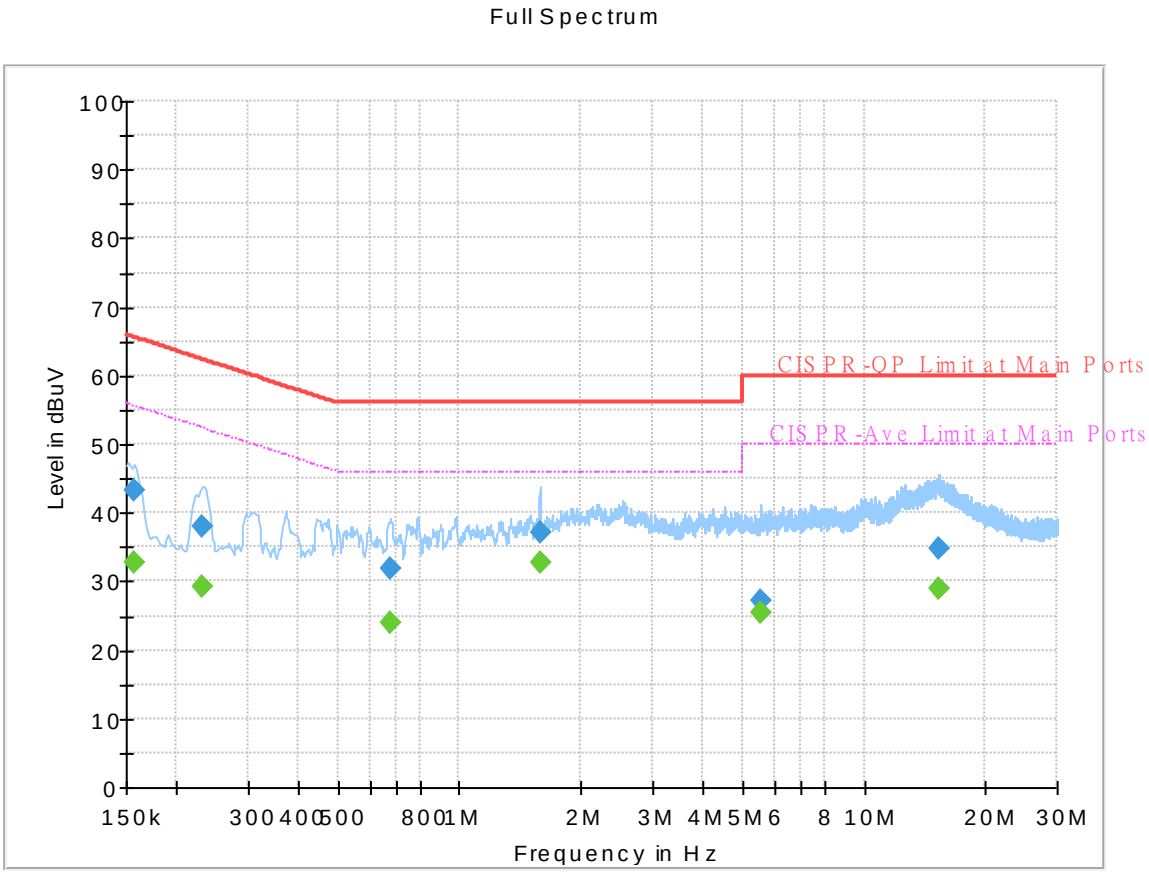
Note: PSD Sum = Max PSD(Ant0, Ant1) + 10 log (n)

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	21~25℃
		Relative Humidity :	40~43%

EUT Information

Report NO :	042242-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

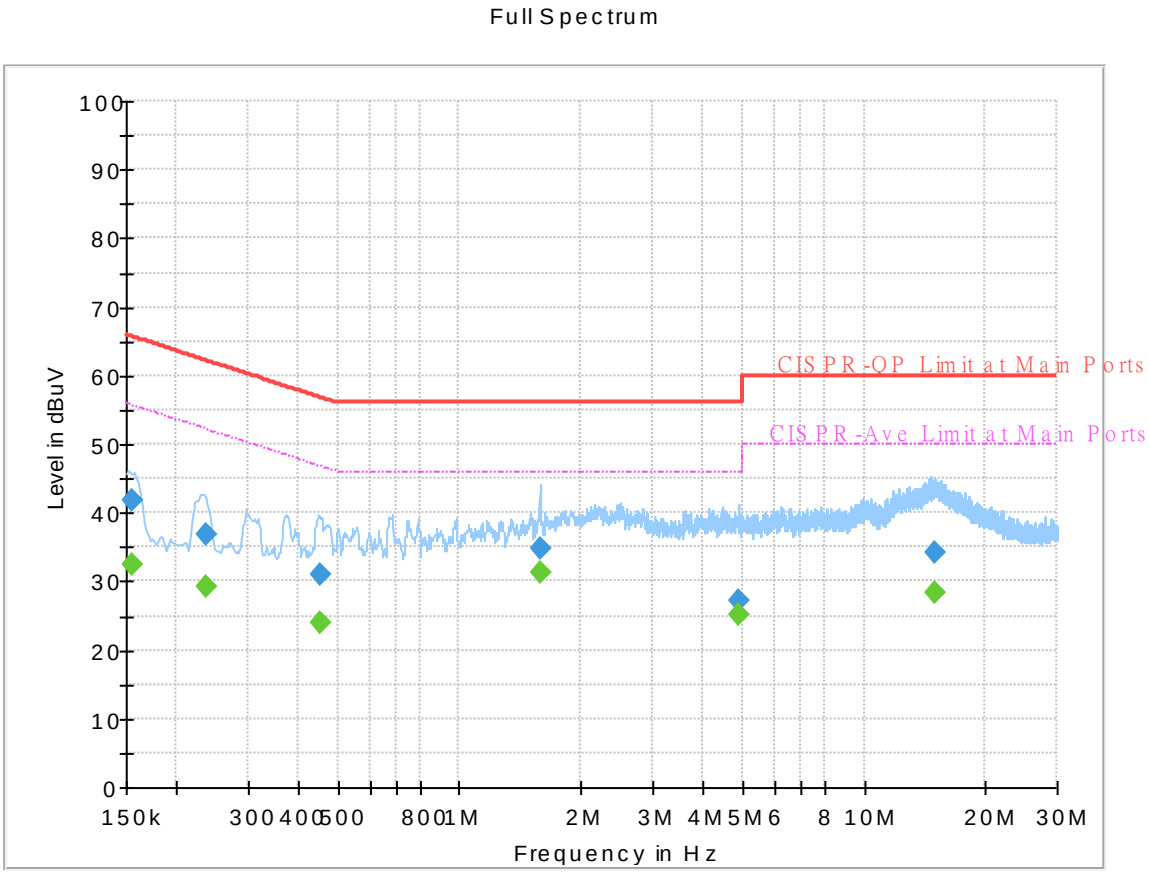


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156345	---	32.73	55.66	22.93	L1	OFF	19.6
0.156345	43.24	---	65.66	22.42	L1	OFF	19.6
0.230010	---	29.37	52.45	23.08	L1	OFF	19.6
0.230010	37.97	---	62.45	24.48	L1	OFF	19.6
0.678750	---	24.06	46.00	21.94	L1	OFF	19.6
0.678750	31.79	---	56.00	24.21	L1	OFF	19.6
1.580280	---	32.67	46.00	13.33	L1	OFF	19.6
1.580280	37.22	---	56.00	18.78	L1	OFF	19.6
5.576910	---	25.31	50.00	24.69	L1	OFF	19.8
5.576910	27.30	---	60.00	32.70	L1	OFF	19.8
15.328860	---	28.91	50.00	21.09	L1	OFF	20.2
15.328860	34.86	---	60.00	25.14	L1	OFF	20.2

EUT Information

Report NO :	042242-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154680	---	32.45	55.75	23.30	N	OFF	19.5
0.154680	41.84	---	65.75	23.91	N	OFF	19.5
0.235500	---	29.22	52.25	23.03	N	OFF	19.5
0.235500	36.88	---	62.25	25.37	N	OFF	19.5
0.453750	---	24.08	46.81	22.73	N	OFF	19.5
0.453750	30.98	---	56.81	25.83	N	OFF	19.5
1.581540	---	31.19	46.00	14.81	N	OFF	19.6
1.581540	34.76	---	56.00	21.24	N	OFF	19.6
4.893000	---	25.11	46.00	20.89	N	OFF	19.7
4.893000	27.23	---	56.00	28.77	N	OFF	19.7
15.045000	---	28.40	50.00	21.60	N	OFF	19.9
15.045000	34.30	---	60.00	25.70	N	OFF	19.9

Appendix C. Radiated Spurious Emission

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

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5638.8	52.02	-16.18	68.2	44.08	31.64	9.59	33.29	320	55	P	H
		5683.4	52.3	-40.65	92.95	44.23	31.73	9.64	33.3	320	55	P	H
		5708	51.71	-55.73	107.44	43.51	31.83	9.68	33.31	320	55	P	H
		5721.4	53.04	-60.95	113.99	44.78	31.89	9.69	33.32	320	55	P	H
	*	5745	100.81	-	-	92.43	31.98	9.72	33.32	320	55	P	H
	*	5745	90.2	-	-	81.82	31.98	9.72	33.32	320	55	A	H
													H
													H
		5630.4	51.71	-16.49	68.2	43.73	31.68	9.58	33.28	159	18	P	V
		5682.2	52.48	-39.59	92.07	44.41	31.73	9.64	33.3	159	18	P	V
		5719	54.11	-56.41	110.52	45.85	31.88	9.69	33.31	159	18	P	V
		5724.4	53.61	-67.22	120.83	45.33	31.9	9.7	33.32	159	18	P	V
	*	5745	105.93	-	-	97.55	31.98	9.72	33.32	159	18	P	V
	*	5745	95.22	-	-	86.84	31.98	9.72	33.32	159	18	A	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5644.8	51.92	-16.28	68.2	43.99	31.62	9.6	33.29	300	55	P	H
		5671.6	52.23	-31.99	84.22	44.21	31.69	9.63	33.3	300	55	P	H
		5713	52.29	-56.55	108.84	44.07	31.85	9.68	33.31	300	55	P	H
		5724.4	51.98	-68.85	120.83	43.7	31.9	9.7	33.32	300	55	P	H
	*	5785	100.83	-	-	92.33	32.07	9.77	33.34	300	55	P	H
	*	5785	89.89	-	-	81.39	32.07	9.77	33.34	300	55	A	H
		5850.8	52.12	-68.26	120.38	43.43	32.2	9.85	33.36	300	55	P	H
		5867.6	53.32	-53.95	107.27	44.58	32.24	9.86	33.36	300	55	P	H
		5907.6	53.04	-28	81.04	44.18	32.33	9.91	33.38	300	55	P	H
		5930	53.56	-14.64	68.2	44.6	32.42	9.93	33.39	300	55	P	H
													H
													H
		5647.6	51.87	-16.33	68.2	43.95	31.61	9.6	33.29	134	19	P	V
		5656.6	52.87	-20.23	73.1	44.92	31.63	9.61	33.29	134	19	P	V
		5700.4	52.41	-52.9	105.31	44.25	31.8	9.67	33.31	134	19	P	V
		5725	52.2	-70	122.2	43.92	31.9	9.7	33.32	134	19	P	V
	*	5785	104.7	-	-	96.2	32.07	9.77	33.34	134	19	P	V
	*	5785	94.08	-	-	85.58	32.07	9.77	33.34	134	19	A	V
		5850	52.71	-69.49	122.2	44.02	32.2	9.85	33.36	134	19	P	V
		5866.2	53	-54.66	107.66	44.27	32.23	9.86	33.36	134	19	P	V
		5908	53.69	-27.05	80.74	44.83	32.33	9.91	33.38	134	19	P	V
		5933	53.16	-15.04	68.2	44.18	32.43	9.94	33.39	134	19	P	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	100.63	-	-	92.01	32.15	9.82	33.35	297	55	P	H
	*	5825	90.03	-	-	81.41	32.15	9.82	33.35	297	55	A	H
		5851.4	51.86	-67.15	119.01	43.17	32.2	9.85	33.36	297	55	P	H
		5866.6	52.61	-54.94	107.55	43.88	32.23	9.86	33.36	297	55	P	H
		5875.2	53.37	-51.68	105.05	44.62	32.25	9.87	33.37	297	55	P	H
		5943.4	53.74	-14.46	68.2	44.71	32.47	9.95	33.39	297	55	P	H
													H
802.11a													H
CH 165	*	5825	105.07	-	-	96.45	32.15	9.82	33.35	103	19	P	V
5825MHz	*	5825	94.37	-	-	85.75	32.15	9.82	33.35	103	19	A	V
		5853.4	52.47	-61.98	114.45	43.77	32.21	9.85	33.36	103	19	P	V
		5861	52.31	-56.81	109.12	43.59	32.22	9.86	33.36	103	19	P	V
		5898.8	53.38	-34.17	87.55	44.56	32.3	9.9	33.38	103	19	P	V
		5925.8	53.29	-14.91	68.2	44.34	32.4	9.93	33.38	103	19	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 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	48.93	-25.07	74	53.55	39.99	17.7	62.31	100	0	P	H
		17235	49.75	-18.45	68.2	46.25	40.81	21.17	58.48	100	0	P	H
													H
													H
		11490	48.85	-25.15	74	53.47	39.99	17.7	62.31	100	0	P	V
		17235	48.95	-19.25	68.2	45.45	40.81	21.17	58.48	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	48.22	-25.78	74	53.04	39.72	17.77	62.31	100	0	P	H
		17355	49.95	-18.25	68.2	45.51	41.39	21.31	58.26	100	0	P	H
													H
													H
		11570	47.68	-26.32	74	52.5	39.72	17.77	62.31	100	0	P	V
		17355	50.54	-17.66	68.2	46.1	41.39	21.31	58.26	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	49.88	-24.12	74	54.96	39.4	17.85	62.33	100	0	P	H
		17475	50.69	-17.51	68.2	45.27	42	21.46	58.04	100	0	P	H
													H
													H
		11650	49.01	-24.99	74	54.09	39.4	17.85	62.33	100	0	P	V
		17475	50.76	-17.44	68.2	45.34	42	21.46	58.04	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5628.2	51.57	-16.63	68.2	43.58	31.69	9.58	33.28	305	36	P	H
		5681.2	52.26	-39.07	91.33	44.2	31.72	9.64	33.3	305	36	P	H
		5703	52.39	-53.65	106.04	44.22	31.81	9.67	33.31	305	36	P	H
		5721	51.07	-62.01	113.08	42.82	31.88	9.69	33.32	305	36	P	H
	*	5745	100.27	-	-	91.89	31.98	9.72	33.32	305	36	P	H
	*	5745	87.68	-	-	79.3	31.98	9.72	33.32	305	36	A	H
802.11n													H
HT20													H
CH 149		5637.8	51.65	-16.55	68.2	43.7	31.65	9.59	33.29	124	18	P	V
5745MHz		5689.2	51.38	-45.86	97.24	43.27	31.76	9.65	33.3	124	18	P	V
		5717.2	52.17	-57.85	110.02	43.92	31.87	9.69	33.31	124	18	P	V
		5725	52.96	-69.24	122.2	44.68	31.9	9.7	33.32	124	18	P	V
	*	5745	105.45	-	-	97.07	31.98	9.72	33.32	124	18	P	V
	*	5745	93.01	-	-	84.63	31.98	9.72	33.32	124	18	A	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5620.6	51.89	-16.31	68.2	43.88	31.72	9.57	33.28	300	37	P	H
		5697.6	51.8	-51.63	103.43	43.66	31.79	9.66	33.31	300	37	P	H
		5705.2	52.44	-54.22	106.66	44.26	31.82	9.67	33.31	300	37	P	H
		5723.8	51.39	-68.07	119.46	43.12	31.9	9.69	33.32	300	37	P	H
	*	5785	98.79	-	-	90.29	32.07	9.77	33.34	300	37	P	H
	*	5785	87.58	-	-	79.08	32.07	9.77	33.34	300	37	A	H
		5850.2	52.78	-68.96	121.74	44.09	32.2	9.85	33.36	300	37	P	H
		5868.2	53.59	-53.51	107.1	44.85	32.24	9.87	33.37	300	37	P	H
		5921.4	53.5	-17.35	70.85	44.57	32.39	9.92	33.38	300	37	P	H
		5928.6	53.18	-15.02	68.2	44.23	32.41	9.93	33.39	300	37	P	H
802.11n													H
HT20													H
CH 157		5616.6	52.21	-15.99	68.2	44.2	31.73	9.56	33.28	131	19	P	V
5785MHz		5685.8	52.59	-42.13	94.72	44.5	31.74	9.65	33.3	131	19	P	V
		5706.8	54.21	-52.9	107.11	46.02	31.83	9.67	33.31	131	19	P	V
		5724.2	52.32	-68.06	120.38	44.04	31.9	9.7	33.32	131	19	P	V
	*	5785	105.09	-	-	96.59	32.07	9.77	33.34	131	19	P	V
	*	5785	92.39	-	-	83.89	32.07	9.77	33.34	131	19	A	V
		5850.8	53.43	-66.95	120.38	44.74	32.2	9.85	33.36	131	19	P	V
		5874	53.07	-52.41	105.48	44.32	32.25	9.87	33.37	131	19	P	V
		5904	53.12	-30.58	83.7	44.28	32.32	9.9	33.38	131	19	P	V
		5943.4	53.33	-14.87	68.2	44.3	32.47	9.95	33.39	131	19	P	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	101.02	-	-	92.4	32.15	9.82	33.35	296	38	P	H
	*	5825	88.11	-	-	79.49	32.15	9.82	33.35	296	38	A	H
		5850	52.32	-69.88	122.2	43.63	32.2	9.85	33.36	296	38	P	H
		5869.6	53.01	-53.7	106.71	44.27	32.24	9.87	33.37	296	38	P	H
		5885.6	54.11	-43.22	97.33	45.33	32.27	9.88	33.37	296	38	P	H
		5945.4	53.77	-14.43	68.2	44.73	32.48	9.95	33.39	296	38	P	H
802.11n													H
HT20													H
CH 165	*	5825	104.53	-	-	95.91	32.15	9.82	33.35	133	18	P	V
5825MHz	*	5825	92.67	-	-	84.05	32.15	9.82	33.35	133	18	A	V
		5850.4	51.79	-69.5	121.29	43.1	32.2	9.85	33.36	133	18	P	V
		5866.8	53.23	-54.26	107.49	44.5	32.23	9.86	33.36	133	18	P	V
		5902.4	53.74	-31.15	84.89	44.91	32.31	9.9	33.38	133	18	P	V
		5931.8	53.5	-14.7	68.2	44.53	32.43	9.93	33.39	133	18	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	47.81	-26.19	74	52.43	39.99	17.7	62.31	100	0	P	H
		17235	49.17	-19.03	68.2	45.67	40.81	21.17	58.48	100	0	P	H
													H
													H
		11490	49.84	-24.16	74	54.46	39.99	17.7	62.31	100	0	P	V
		17235	49.38	-18.82	68.2	45.88	40.81	21.17	58.48	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	48.55	-25.45	74	53.37	39.72	17.77	62.31	100	0	P	H
		17355	50.07	-18.13	68.2	45.63	41.39	21.31	58.26	100	0	P	H
													H
													H
		11570	48.42	-25.58	74	53.24	39.72	17.77	62.31	100	0	P	V
		17355	51.52	-16.68	68.2	47.08	41.39	21.31	58.26	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	49.42	-24.58	74	54.5	39.4	17.85	62.33	100	0	P	H
		17475	50.56	-17.64	68.2	45.14	42	21.46	58.04	100	0	P	H
													H
													H
		11650	47.99	-26.01	74	53.07	39.4	17.85	62.33	100	0	P	V
		17475	50.09	-18.11	68.2	44.67	42	21.46	58.04	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5616.6	52.32	-15.88	68.2	44.31	31.73	9.56	33.28	292	36	P	H
		5692.6	52.5	-47.24	99.74	44.38	31.77	9.66	33.31	292	36	P	H
		5701.8	53.23	-52.47	105.7	45.06	31.81	9.67	33.31	292	36	P	H
		5725	52.94	-69.26	122.2	44.66	31.9	9.7	33.32	292	36	P	H
	*	5755	97.15	-	-	88.74	32.01	9.73	33.33	292	36	P	H
	*	5755	84.7	-	-	76.29	32.01	9.73	33.33	292	36	A	H
		5851.6	52.64	-65.91	118.55	43.95	32.2	9.85	33.36	292	36	P	H
		5865.8	52.6	-55.17	107.77	43.87	32.23	9.86	33.36	292	36	P	H
		5888.8	52.91	-42.05	94.96	44.11	32.28	9.89	33.37	292	36	P	H
		5928.2	53.41	-14.79	68.2	44.46	32.41	9.93	33.39	292	36	P	H
802.11n													H
HT40													H
CH 151		5611.6	52.19	-16.01	68.2	44.17	31.75	9.55	33.28	124	18	P	V
5755MHz		5692.4	52.07	-47.53	99.6	43.95	31.77	9.66	33.31	124	18	P	V
		5718.8	52.93	-57.53	110.46	44.67	31.88	9.69	33.31	124	18	P	V
		5725	57.58	-64.62	122.2	49.3	31.9	9.7	33.32	124	18	P	V
	*	5755	103.01	-	-	94.6	32.01	9.73	33.33	124	18	P	V
	*	5755	90.69	-	-	82.28	32.01	9.73	33.33	124	18	A	V
		5850.6	52.8	-68.03	120.83	44.11	32.2	9.85	33.36	124	18	P	V
		5871.4	53.06	-53.15	106.21	44.32	32.24	9.87	33.37	124	18	P	V
		5916	53.57	-21.27	74.84	44.67	32.36	9.92	33.38	124	18	P	V
		5925	52.99	-15.21	68.2	44.04	32.4	9.93	33.38	124	18	P	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5631.8	51.67	-16.53	68.2	43.7	31.67	9.58	33.28	300	37	P	H
		5693.2	52.14	-48.05	100.19	44.02	31.77	9.66	33.31	300	37	P	H
		5715.6	51.44	-58.13	109.57	43.21	31.86	9.68	33.31	300	37	P	H
		5722.6	51.96	-64.77	116.73	43.7	31.89	9.69	33.32	300	37	P	H
	*	5795	97.18	-	-	88.65	32.09	9.78	33.34	300	37	P	H
	*	5795	84.89	-	-	76.36	32.09	9.78	33.34	300	37	A	H
		5854	52.6	-60.48	113.08	43.9	32.21	9.85	33.36	300	37	P	H
		5859.8	52.76	-56.69	109.45	44.04	32.22	9.86	33.36	300	37	P	H
		5894.2	52.91	-38.04	90.95	44.1	32.29	9.89	33.37	300	37	P	H
		5937.4	53.65	-14.55	68.2	44.65	32.45	9.94	33.39	300	37	P	H
802.11n													H
HT40													H
CH 159		5609	52.38	-15.82	68.2	44.35	31.76	9.55	33.28	143	18	P	V
5795MHz		5699.8	52.04	-53.01	105.05	43.89	31.8	9.66	33.31	143	18	P	V
		5705.4	52.5	-54.21	106.71	44.32	31.82	9.67	33.31	143	18	P	V
		5720.8	52.01	-60.61	112.62	43.76	31.88	9.69	33.32	143	18	P	V
	*	5795	102.83	-	-	94.3	32.09	9.78	33.34	143	18	P	V
	*	5795	89.98	-	-	81.45	32.09	9.78	33.34	143	18	A	V
		5851	52.2	-67.72	119.92	43.51	32.2	9.85	33.36	143	18	P	V
		5857.2	53.21	-56.97	110.18	44.51	32.21	9.85	33.36	143	18	P	V
		5913.6	54.13	-22.48	76.61	45.25	32.35	9.91	33.38	143	18	P	V
		5943.2	53.88	-14.32	68.2	44.85	32.47	9.95	33.39	143	18	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	48.58	-25.42	74	53.21	39.96	17.71	62.3	100	0	P	H
		17265	49.28	-18.92	68.2	45.59	40.9	21.21	58.42	100	0	P	H
													H
													H
		11510	48.63	-25.37	74	53.26	39.96	17.71	62.3	100	0	P	V
		17265	50.11	-18.09	68.2	46.42	40.9	21.21	58.42	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	47.59	-26.41	74	52.48	39.64	17.79	62.32	100	0	P	H
		17385	50.58	-17.62	68.2	45.84	41.6	21.35	58.21	100	0	P	H
													H
													H
		11590	48.14	-25.86	74	53.03	39.64	17.79	62.32	100	0	P	V
		17385	50.52	-17.68	68.2	45.78	41.6	21.35	58.21	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5615.8	52.12	-16.08	68.2	44.1	31.74	9.56	33.28	386	64	P	H
		5663	53.34	-24.51	77.85	45.37	31.65	9.62	33.3	386	64	P	H
		5719.2	55.77	-54.81	110.58	47.51	31.88	9.69	33.31	386	64	P	H
		5725	58.34	-63.86	122.2	50.06	31.9	9.7	33.32	386	64	P	H
	*	5775	94.9	-	-	86.42	32.05	9.76	33.33	386	64	P	H
	*	5775	83.12	-	-	74.64	32.05	9.76	33.33	386	64	A	H
		5850	52.08	-70.12	122.2	43.39	32.2	9.85	33.36	386	64	P	H
		5869.4	53.32	-53.45	106.77	44.58	32.24	9.87	33.37	386	64	P	H
		5887.8	53.45	-42.25	95.7	44.65	32.28	9.89	33.37	386	64	P	H
		5928.2	53.67	-14.53	68.2	44.72	32.41	9.93	33.39	386	64	P	H
802.11ac													H
VHT80													H
CH 155		5616.4	52.59	-15.61	68.2	44.58	31.73	9.56	33.28	169	21	P	V
5775MHz		5668.2	53.62	-28.09	81.71	45.62	31.67	9.63	33.3	169	21	P	V
		5718.8	57.95	-52.51	110.46	49.69	31.88	9.69	33.31	169	21	P	V
		5725	63.62	-58.58	122.2	55.34	31.9	9.7	33.32	169	21	P	V
	*	5775	99.96	-	-	91.48	32.05	9.76	33.33	169	21	P	V
	*	5775	87.18	-	-	78.7	32.05	9.76	33.33	169	21	A	V
		5850.8	53.43	-66.95	120.38	44.74	32.2	9.85	33.36	169	21	P	V
		5860.4	53.04	-56.25	109.29	44.32	32.22	9.86	33.36	169	21	P	V
		5919.4	54.29	-18.04	72.33	45.37	32.38	9.92	33.38	169	21	P	V
		5938.6	54.51	-13.69	68.2	45.51	32.45	9.94	33.39	169	21	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	48.17	-25.83	74	52.93	39.8	17.75	62.31	100	0	P	H
		17325	49.99	-18.21	68.2	45.86	41.17	21.28	58.32	100	0	P	H
													H
													H
		11550	48.69	-25.31	74	53.45	39.8	17.75	62.31	100	0	P	V
		17325	51.69	-16.51	68.2	47.56	41.17	21.28	58.32	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5629	52.16	-16.04	68.2	44.18	31.68	9.58	33.28	387	45	P	H
		5677	52.29	-35.93	88.22	44.24	31.71	9.64	33.3	387	45	P	H
		5703.6	52.39	-53.82	106.21	44.22	31.81	9.67	33.31	387	45	P	H
		5725	52.01	-70.19	122.2	43.73	31.9	9.7	33.32	387	45	P	H
	*	5745	102.14	-	-	93.76	31.98	9.72	33.32	387	45	P	H
	*	5745	87.92	-	-	79.54	31.98	9.72	33.32	387	45	A	H
802.11ax													H
HE20 Full													H
CH 149		5603.2	52.04	-16.16	68.2	43.99	31.79	9.54	33.28	123	19	P	V
5745MHz		5685.8	52.35	-42.37	94.72	44.26	31.74	9.65	33.3	123	19	P	V
		5704.2	52.38	-54	106.38	44.2	31.82	9.67	33.31	123	19	P	V
		5724.6	54.19	-67.1	121.29	45.91	31.9	9.7	33.32	123	19	P	V
	*	5745	107.77	-	-	99.39	31.98	9.72	33.32	123	19	P	V
	*	5745	93.43	-	-	85.05	31.98	9.72	33.32	123	19	A	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.4	52.55	-15.65	68.2	44.62	31.63	9.59	33.29	399	48	P	H
		5674.6	52.32	-34.12	86.44	44.29	31.7	9.63	33.3	399	48	P	H
		5719.4	51.72	-58.91	110.63	43.46	31.88	9.69	33.31	399	48	P	H
		5724.4	51.49	-69.34	120.83	43.21	31.9	9.7	33.32	399	48	P	H
	*	5785	101.93	-	-	93.43	32.07	9.77	33.34	399	48	P	H
	*	5785	87.94	-	-	79.44	32.07	9.77	33.34	399	48	A	H
		5851.2	52.22	-67.24	119.46	43.53	32.2	9.85	33.36	399	48	P	H
		5873.2	52.94	-52.76	105.7	44.19	32.25	9.87	33.37	399	48	P	H
		5911.2	53.28	-25.1	78.38	44.41	32.34	9.91	33.38	399	48	P	H
		5926	53.13	-15.07	68.2	44.18	32.4	9.93	33.38	399	48	P	H
802.11ax													H
HE20 Full													H
CH 157		5609.2	51.95	-16.25	68.2	43.92	31.76	9.55	33.28	132	18	P	V
5785MHz		5697.8	52.24	-51.34	103.58	44.1	31.79	9.66	33.31	132	18	P	V
		5715.8	52.75	-56.88	109.63	44.52	31.86	9.68	33.31	132	18	P	V
		5720.2	51.74	-59.52	111.26	43.48	31.88	9.69	33.31	132	18	P	V
	*	5785	107.21	-	-	98.71	32.07	9.77	33.34	132	18	P	V
	*	5785	92.62	-	-	84.12	32.07	9.77	33.34	132	18	A	V
		5851.8	52.04	-66.06	118.1	43.35	32.2	9.85	33.36	132	18	P	V
		5865	52.93	-55.07	108	44.2	32.23	9.86	33.36	132	18	P	V
		5884.6	54.79	-43.28	98.07	46.01	32.27	9.88	33.37	132	18	P	V
		5933.8	53.6	-14.6	68.2	44.61	32.44	9.94	33.39	132	18	P	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	103.06	-	-	94.44	32.15	9.82	33.35	396	50	P	H
	*	5825	88.79	-	-	80.17	32.15	9.82	33.35	396	50	A	H
		5850.4	52.74	-68.55	121.29	44.05	32.2	9.85	33.36	396	50	P	H
		5858.4	52.4	-57.45	109.85	43.69	32.22	9.85	33.36	396	50	P	H
		5917.8	53.13	-20.38	73.51	44.22	32.37	9.92	33.38	396	50	P	H
		5925.8	53.68	-14.52	68.2	44.73	32.4	9.93	33.38	396	50	P	H
													H
													H
	*	5825	107.14	-	-	98.52	32.15	9.82	33.35	142	19	P	V
	*	5825	92.55	-	-	83.93	32.15	9.82	33.35	142	19	A	V
		5850.6	52.07	-68.76	120.83	43.38	32.2	9.85	33.36	142	19	P	V
		5857.2	52.82	-57.36	110.18	44.12	32.21	9.85	33.36	142	19	P	V
		5881	53.53	-47.21	100.74	44.76	32.26	9.88	33.37	142	19	P	V
		5945.4	54.14	-14.06	68.2	45.1	32.48	9.95	33.39	142	19	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 802.11ax HE20 Full (Harmonic @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		11490	49.02	-24.98	74	53.64	39.99	17.7	62.31	100	0	P	H
		17235	49.7	-18.5	68.2	46.2	40.81	21.17	58.48	100	0	P	H
													H
													H
		11490	49.12	-24.88	74	53.74	39.99	17.7	62.31	100	0	P	V
		17235	49.57	-18.63	68.2	46.07	40.81	21.17	58.48	100	0	P	V
													V
													V
802.11ax HE20 Full CH 157 5785MHz		11570	48.84	-25.16	74	53.66	39.72	17.77	62.31	100	0	P	H
		17355	50.27	-17.93	68.2	45.83	41.39	21.31	58.26	100	0	P	H
													H
													H
		11570	48.54	-25.46	74	53.36	39.72	17.77	62.31	100	0	P	V
		17355	50.48	-17.72	68.2	46.04	41.39	21.31	58.26	100	0	P	V
													V
													V
802.11ax HE20 Full CH 165 5825MHz		11650	49.23	-24.77	74	54.31	39.4	17.85	62.33	100	0	P	H
		17475	50.48	-17.72	68.2	45.06	42	21.46	58.04	100	0	P	H
													H
													H
		11650	49.07	-24.93	74	54.15	39.4	17.85	62.33	100	0	P	V
		17475	51.1	-17.1	68.2	45.68	42	21.46	58.04	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 26 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 149 5745MHz		5629.8	52.46	-15.74	68.2	44.48	31.68	9.58	33.28	389	40	P	H
		5697.6	53.22	-50.21	103.43	45.08	31.79	9.66	33.31	389	40	P	H
		5706.4	53.18	-53.81	106.99	44.99	31.83	9.67	33.31	389	40	P	H
		5723.4	52.37	-66.18	118.55	44.11	31.89	9.69	33.32	389	40	P	H
	*	5745	110.01	-	-	101.63	31.98	9.72	33.32	389	40	P	H
	*	5745	97.67	-	-	89.29	31.98	9.72	33.32	389	40	A	H
													H
													H
		5648.2	52.71	-15.49	68.2	44.79	31.61	9.6	33.29	159	20	P	V
		5687.4	52.59	-43.32	95.91	44.49	31.75	9.65	33.3	159	20	P	V
		5714.4	52.91	-56.32	109.23	44.68	31.86	9.68	33.31	159	20	P	V
		5725	53.89	-68.31	122.2	45.61	31.9	9.7	33.32	159	20	P	V
	*	5745	115.26	-	-	106.88	31.98	9.72	33.32	159	20	P	V
	*	5745	102.95	-	-	94.57	31.98	9.72	33.32	159	20	A	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/8 CH 165 5825MHz	*	5825	112.24	-	-	103.62	32.15	9.82	33.35	394	53	P	H
	*	5825	98.1	-	-	89.48	32.15	9.82	33.35	394	53	A	H
		5854	53.17	-59.91	113.08	44.47	32.21	9.85	33.36	394	53	P	H
		5872.2	53.01	-52.97	105.98	44.27	32.24	9.87	33.37	394	53	P	H
		5911.2	54.25	-24.13	78.38	45.38	32.34	9.91	33.38	394	53	P	H
		5930.6	53.94	-14.26	68.2	44.98	32.42	9.93	33.39	394	53	P	H
													H
													H
	*	5825	114.73	-	-	106.11	32.15	9.82	33.35	188	15	P	V
	*	5825	100.61	-	-	91.99	32.15	9.82	33.35	188	15	A	V
		5854.8	53.14	-58.12	111.26	44.44	32.21	9.85	33.36	188	15	P	V
		5870	53.25	-53.35	106.6	44.51	32.24	9.87	33.37	188	15	P	V
		5894.4	53.92	-36.89	90.81	45.11	32.29	9.89	33.37	188	15	P	V
		5926.8	54.21	-13.99	68.2	45.26	32.41	9.93	33.39	188	15	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_Partial 26 (Harmonic @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 149 5745MHz		11490	48.13	-25.87	74	52.75	39.99	17.7	62.31	100	0	P	H
		17235	49.54	-18.66	68.2	46.04	40.81	21.17	58.48	100	0	P	H
													H
													H
		11490	48.72	-25.28	74	53.34	39.99	17.7	62.31	100	0	P	V
		17235	49.25	-18.95	68.2	45.75	40.81	21.17	58.48	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 52 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 52/37 CH 149 5745MHz		5630.6	52.28	-15.92	68.2	44.3	31.68	9.58	33.28	340	46	P	H
		5661.8	52.3	-24.66	76.96	44.33	31.65	9.62	33.3	340	46	P	H
		5714.2	52.88	-56.3	109.18	44.65	31.86	9.68	33.31	340	46	P	H
		5725	53.64	-68.56	122.2	45.36	31.9	9.7	33.32	340	46	P	H
	*	5745	109.04	-	-	100.66	31.98	9.72	33.32	340	46	P	H
	*	5745	97.22	-	-	88.84	31.98	9.72	33.32	340	46	A	H
													H
													H
		5619.4	52.86	-15.34	68.2	44.86	31.72	9.56	33.28	180	0	P	V
		5698.2	52.56	-51.31	103.87	44.42	31.79	9.66	33.31	180	0	P	V
		5719.8	53.09	-57.65	110.74	44.83	31.88	9.69	33.31	180	0	P	V
		5722.4	53.23	-63.04	116.27	44.97	31.89	9.69	33.32	180	0	P	V
	*	5745	113.57	-	-	105.19	31.98	9.72	33.32	180	0	P	V
	*	5745	101.71	-	-	93.33	31.98	9.72	33.32	180	0	A	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 52/40 CH 165 5825MHz	*	5825	109.65	-	-	101.03	32.15	9.82	33.35	378	53	P	H
	*	5825	97.3	-	-	88.68	32.15	9.82	33.35	378	53	A	H
		5853.4	53.2	-61.25	114.45	44.5	32.21	9.85	33.36	378	53	P	H
		5873	52.57	-53.19	105.76	43.82	32.25	9.87	33.37	378	53	P	H
		5903.4	53.26	-30.89	84.15	44.43	32.31	9.9	33.38	378	53	P	H
		5939.4	54.25	-13.95	68.2	45.24	32.46	9.94	33.39	378	53	P	H
													H
													H
	*	5825	113.37	-	-	104.75	32.15	9.82	33.35	187	0	P	V
	*	5825	100.78	-	-	92.16	32.15	9.82	33.35	187	0	A	V
		5851.8	52.41	-65.69	118.1	43.72	32.2	9.85	33.36	187	0	P	V
		5856	53	-57.52	110.52	44.3	32.21	9.85	33.36	187	0	P	V
		5914.8	53.51	-22.21	75.72	44.61	32.36	9.92	33.38	187	0	P	V
		5940.4	53.74	-14.46	68.2	44.73	32.46	9.94	33.39	187	0	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 52 (Harmonic @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 52/37 CH 149 5745MHz		11490	49.61	-24.39	74	54.23	39.99	17.7	62.31	100	0	P	H
		17235	49.86	-18.34	68.2	46.36	40.81	21.17	58.48	100	0	P	H
													H
													H
		11490	48.61	-25.39	74	53.23	39.99	17.7	62.31	100	0	P	V
		17235	49.33	-18.87	68.2	45.83	40.81	21.17	58.48	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 106 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5627.8	52.13	-16.07	68.2	44.15	31.69	9.57	33.28	354	48	P	H
		5688.8	51.77	-45.17	96.94	43.66	31.76	9.65	33.3	354	48	P	H
		5702	52.4	-53.36	105.76	44.23	31.81	9.67	33.31	354	48	P	H
		5725	51.74	-70.46	122.2	43.46	31.9	9.7	33.32	354	48	P	H
	*	5745	107	-	-	98.62	31.98	9.72	33.32	354	48	P	H
	*	5745	94.99	-	-	86.61	31.98	9.72	33.32	354	48	A	H
													H
													H
		5615.6	52.71	-15.49	68.2	44.69	31.74	9.56	33.28	205	12	P	V
		5699.6	52.45	-52.46	104.91	44.3	31.8	9.66	33.31	205	12	P	V
		5700.6	53.09	-52.28	105.37	44.93	31.8	9.67	33.31	205	12	P	V
		5723.6	53.15	-65.86	119.01	44.89	31.89	9.69	33.32	205	12	P	V
	*	5745	111.27	-	-	102.89	31.98	9.72	33.32	205	12	P	V
	*	5745	98.52	-	-	90.14	31.98	9.72	33.32	205	12	A	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	107.69	-	-	99.07	32.15	9.82	33.35	399	55	P	H
	*	5825	95.74	-	-	87.12	32.15	9.82	33.35	399	55	A	H
		5852	52.53	-65.11	117.64	43.84	32.2	9.85	33.36	399	55	P	H
		5860.8	53.02	-56.15	109.17	44.3	32.22	9.86	33.36	399	55	P	H
		5920.2	53.54	-18.2	71.74	44.62	32.38	9.92	33.38	399	55	P	H
		5935.2	53.12	-15.08	68.2	44.13	32.44	9.94	33.39	399	55	P	H
													H
													H
	*	5825	110.75	-	-	102.13	32.15	9.82	33.35	172	0	P	V
	*	5825	98.11	-	-	89.49	32.15	9.82	33.35	172	0	A	V
		5855	53.99	-56.81	110.8	45.29	32.21	9.85	33.36	172	0	P	V
		5855	53.99	-56.81	110.8	45.29	32.21	9.85	33.36	172	0	P	V
		5893.8	54.39	-36.86	91.25	45.58	32.29	9.89	33.37	172	0	P	V
		5930	54.28	-13.92	68.2	45.32	32.42	9.93	33.39	172	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5622.8	51.88	-16.32	68.2	43.88	31.71	9.57	33.28	400	43	P	H
		5663.8	52.41	-26.03	78.44	44.43	31.66	9.62	33.3	400	43	P	H
		5707	53.17	-53.99	107.16	44.98	31.83	9.67	33.31	400	43	P	H
		5724.4	53.61	-67.22	120.83	45.33	31.9	9.7	33.32	400	43	P	H
	*	5755	98.98	-	-	90.57	32.01	9.73	33.33	400	43	P	H
	*	5755	85.29	-	-	76.88	32.01	9.73	33.33	400	43	A	H
		5850.4	51.94	-69.35	121.29	43.25	32.2	9.85	33.36	400	43	P	H
		5866.6	52.94	-54.61	107.55	44.21	32.23	9.86	33.36	400	43	P	H
		5884.4	53.41	-44.81	98.22	44.63	32.27	9.88	33.37	400	43	P	H
		5931	54.19	-14.01	68.2	45.23	32.42	9.93	33.39	400	43	P	H
802.11ax													H
HE40 Full													H
CH 151		5617.2	52.55	-15.65	68.2	44.54	31.73	9.56	33.28	160	19	P	V
5755MHz		5698.8	52.15	-52.17	104.32	44	31.8	9.66	33.31	160	19	P	V
		5715.8	55.86	-53.77	109.63	47.63	31.86	9.68	33.31	160	19	P	V
		5725	58.25	-63.95	122.2	49.97	31.9	9.7	33.32	160	19	P	V
	*	5755	104.64	-	-	96.23	32.01	9.73	33.33	160	19	P	V
	*	5755	90.56	-	-	82.15	32.01	9.73	33.33	160	19	A	V
		5853.2	51.95	-62.95	114.9	43.25	32.21	9.85	33.36	160	19	P	V
		5870.6	52.87	-53.56	106.43	44.13	32.24	9.87	33.37	160	19	P	V
		5918	54.57	-18.79	73.36	45.66	32.37	9.92	33.38	160	19	P	V
		5935.8	54.28	-13.92	68.2	45.29	32.44	9.94	33.39	160	19	P	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5605.6	51.9	-16.3	68.2	43.85	31.78	9.55	33.28	400	48	P	H
		5692.6	52.25	-47.49	99.74	44.13	31.77	9.66	33.31	400	48	P	H
		5717.8	52.96	-57.22	110.18	44.71	31.87	9.69	33.31	400	48	P	H
		5723.6	51.34	-67.67	119.01	43.08	31.89	9.69	33.32	400	48	P	H
	*	5795	99.74	-	-	91.21	32.09	9.78	33.34	400	48	P	H
	*	5795	85.67	-	-	77.14	32.09	9.78	33.34	400	48	A	H
		5855	52.59	-58.21	110.8	43.89	32.21	9.85	33.36	400	48	P	H
		5867	52.75	-54.69	107.44	44.02	32.23	9.86	33.36	400	48	P	H
		5920.4	52.85	-18.74	71.59	43.93	32.38	9.92	33.38	400	48	P	H
		5939	54.6	-13.6	68.2	45.59	32.46	9.94	33.39	400	48	P	H
802.11ax													H
HE40 Full													H
CH 159		5614.6	52.6	-15.6	68.2	44.58	31.74	9.56	33.28	145	19	P	V
5795MHz		5674.2	52.47	-33.68	86.15	44.44	31.7	9.63	33.3	145	19	P	V
		5716.2	52.23	-57.51	109.74	43.99	31.86	9.69	33.31	145	19	P	V
		5720.8	51.97	-60.65	112.62	43.72	31.88	9.69	33.32	145	19	P	V
	*	5795	103.64	-	-	95.11	32.09	9.78	33.34	145	19	P	V
	*	5795	90.09	-	-	81.56	32.09	9.78	33.34	145	19	A	V
		5851	52.22	-67.7	119.92	43.53	32.2	9.85	33.36	145	19	P	V
		5873.6	52.71	-52.88	105.59	43.96	32.25	9.87	33.37	145	19	P	V
		5897.8	53.76	-34.53	88.29	44.94	32.3	9.9	33.38	145	19	P	V
		5928.2	53.51	-14.69	68.2	44.56	32.41	9.93	33.39	145	19	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 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		11510	48.72	-25.28	74	53.35	39.96	17.71	62.3	100	0	P	H
		17265	51.7	-16.5	68.2	48.01	40.9	21.21	58.42	100	0	P	H
													H
													H
		11510	48.41	-25.59	74	53.04	39.96	17.71	62.3	100	0	P	V
		17265	49.36	-18.84	68.2	45.67	40.9	21.21	58.42	100	0	P	V
													V
													V
802.11ax HE40 Full CH 159 5795MHz		11590	48.24	-25.76	74	53.13	39.64	17.79	62.32	100	0	P	H
		17385	50.36	-17.84	68.2	45.62	41.6	21.35	58.21	100	0	P	H
													H
													H
		11590	47.97	-26.03	74	52.86	39.64	17.79	62.32	100	0	P	V
		17385	50.59	-17.61	68.2	45.85	41.6	21.35	58.21	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Partial 242 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5635.2	52.21	-15.99	68.2	44.26	31.66	9.58	33.29	250	59	P	H
		5698.6	52.95	-51.22	104.17	44.81	31.79	9.66	33.31	250	59	P	H
		5713.4	52.78	-56.17	108.95	44.56	31.85	9.68	33.31	250	59	P	H
		5725	58.39	-63.81	122.2	50.11	31.9	9.7	33.32	250	59	P	H
	*	5755	103.7	-	-	95.29	32.01	9.73	33.33	250	59	P	H
	*	5755	90.8	-	-	82.39	32.01	9.73	33.33	250	59	A	H
		5854.2	53.56	-59.06	112.62	44.86	32.21	9.85	33.36	250	59	P	H
		5861	53.87	-55.25	109.12	45.15	32.22	9.86	33.36	250	59	P	H
		5921.2	54.44	-16.56	71	45.52	32.38	9.92	33.38	250	59	P	H
802.11ax		5943.4	54.72	-13.48	68.2	45.69	32.47	9.95	33.39	250	59	P	H
HE40													H
Partial													H
242/61		5623.6	53.23	-14.97	68.2	45.23	31.71	9.57	33.28	256	7	P	V
CH 151		5688.6	53.33	-43.46	96.79	45.23	31.75	9.65	33.3	256	7	P	V
5755MHz		5719	53.91	-56.61	110.52	45.65	31.88	9.69	33.31	256	7	P	V
		5725	60.01	-62.19	122.2	51.73	31.9	9.7	33.32	256	7	P	V
	*	5755	108.84	-	-	100.43	32.01	9.73	33.33	256	7	P	V
	*	5755	94.27	-	-	85.86	32.01	9.73	33.33	256	7	A	V
		5852.6	53.07	-63.2	116.27	44.37	32.21	9.85	33.36	256	7	P	V
		5871	53.35	-52.97	106.32	44.61	32.24	9.87	33.37	256	7	P	V
		5922.2	54.11	-16.15	70.26	45.18	32.39	9.92	33.38	256	7	P	V
		5940.2	53.86	-14.34	68.2	44.85	32.46	9.94	33.39	256	7	P	V
													V
													V

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5607.8	52.35	-15.85	68.2	44.31	31.77	9.55	33.28	400	54	P	H
		5690	52.74	-45.09	97.83	44.63	31.76	9.65	33.3	400	54	P	H
		5708.6	52.51	-55.1	107.61	44.31	31.83	9.68	33.31	400	54	P	H
		5723.2	51.98	-66.12	118.1	43.72	31.89	9.69	33.32	400	54	P	H
	*	5795	104.66	-	-	96.13	32.09	9.78	33.34	400	54	P	H
	*	5795	90.75	-	-	82.22	32.09	9.78	33.34	400	54	A	H
		5854.4	52.07	-60.1	112.17	43.37	32.21	9.85	33.36	400	54	P	H
		5864	52.98	-55.3	108.28	44.25	32.23	9.86	33.36	400	54	P	H
		5910.6	53.03	-25.79	78.82	44.16	32.34	9.91	33.38	400	54	P	H
802.11ax		5934.6	53.64	-14.56	68.2	44.65	32.44	9.94	33.39	400	54	P	H
HE40													H
Partial													H
242/62		5642.8	52.93	-15.27	68.2	45	31.63	9.59	33.29	100	20	P	V
CH 159		5685.6	52.68	-41.9	94.58	44.59	31.74	9.65	33.3	100	20	P	V
5795MHz		5713.8	52.81	-56.26	109.07	44.58	31.86	9.68	33.31	100	20	P	V
		5723.8	52.95	-66.51	119.46	44.68	31.9	9.69	33.32	100	20	P	V
	*	5795	107.94	-	-	99.41	32.09	9.78	33.34	100	20	P	V
	*	5795	93.8	-	-	85.27	32.09	9.78	33.34	100	20	A	V
		5855	52.7	-58.1	110.8	44	32.21	9.85	33.36	100	20	P	V
		5863	54.02	-54.54	108.56	45.29	32.23	9.86	33.36	100	20	P	V
		5903.8	53.63	-30.22	83.85	44.79	32.32	9.9	33.38	100	20	P	V
		5950	53.75	-14.45	68.2	44.69	32.5	9.95	33.39	100	20	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 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5636.2	52.7	-15.5	68.2	44.74	31.66	9.59	33.29	400	47	P	H
		5695.6	53.18	-48.78	101.96	45.05	31.78	9.66	33.31	400	47	P	H
		5719.4	54.59	-56.04	110.63	46.33	31.88	9.69	33.31	400	47	P	H
		5724.6	58.23	-63.06	121.29	49.95	31.9	9.7	33.32	400	47	P	H
	*	5775	96.31	-	-	87.83	32.05	9.76	33.33	400	47	P	H
	*	5775	82.08	-	-	73.6	32.05	9.76	33.33	400	47	A	H
		5852	51.99	-65.65	117.64	43.3	32.2	9.85	33.36	400	47	P	H
		5856.2	53.21	-57.25	110.46	44.51	32.21	9.85	33.36	400	47	P	H
		5922	53.83	-16.58	70.41	44.9	32.39	9.92	33.38	400	47	P	H
		5936.8	53.85	-14.35	68.2	44.85	32.45	9.94	33.39	400	47	P	H
802.11ax													H
HE80 Full													H
CH 155		5612.2	52.55	-15.65	68.2	44.52	31.75	9.56	33.28	123	18	P	V
5775MHz		5662	52.71	-24.4	77.11	44.74	31.65	9.62	33.3	123	18	P	V
		5719.6	57.5	-53.19	110.69	49.24	31.88	9.69	33.31	123	18	P	V
		5723.8	62.11	-57.35	119.46	53.84	31.9	9.69	33.32	123	18	P	V
	*	5775	102.04	-	-	93.56	32.05	9.76	33.33	123	18	P	V
	*	5775	87.27	-	-	78.79	32.05	9.76	33.33	123	18	A	V
		5853.2	53.8	-61.1	114.9	45.1	32.21	9.85	33.36	123	18	P	V
		5863.2	53.53	-54.97	108.5	44.8	32.23	9.86	33.36	123	18	P	V
		5903	53.92	-30.52	84.44	45.09	32.31	9.9	33.38	123	18	P	V
		5948.2	54.11	-14.09	68.2	45.06	32.49	9.95	33.39	123	18	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 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		11550	50.07	-23.93	74	54.83	39.8	17.75	62.31	100	0	P	H
		17325	51.19	-17.01	68.2	47.06	41.17	21.28	58.32	100	0	P	H
													H
													H
		11550	48.89	-25.11	74	53.65	39.8	17.75	62.31	100	0	P	V
		17325	50.12	-18.08	68.2	45.99	41.17	21.28	58.32	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Partial 484 (Band Edge @ 3m)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/65 CH 155 5775MHz		5606	52.65	-15.55	68.2	44.6	31.78	9.55	33.28	400	49	P	H
		5682.6	53.38	-38.98	92.36	45.31	31.73	9.64	33.3	400	49	P	H
		5718.2	53.53	-56.77	110.3	45.28	31.87	9.69	33.31	400	49	P	H
		5723.6	59.5	-59.51	119.01	51.24	31.89	9.69	33.32	400	49	P	H
	*	5775	100.58	-	-	92.1	32.05	9.76	33.33	400	49	P	H
	*	5775	86.27	-	-	77.79	32.05	9.76	33.33	400	49	A	H
		5855	52	-58.8	110.8	43.3	32.21	9.85	33.36	400	49	P	H
		5863.6	53.19	-55.2	108.39	44.46	32.23	9.86	33.36	400	49	P	H
		5914.2	53.93	-22.24	76.17	45.03	32.36	9.92	33.38	400	49	P	H
		5940.6	54.37	-13.83	68.2	45.36	32.46	9.94	33.39	400	49	P	H
													H
													H
		5641	52.68	-15.52	68.2	44.74	31.64	9.59	33.29	100	13	P	V
		5695	52.62	-48.89	101.51	44.49	31.78	9.66	33.31	100	13	P	V
		5719.6	59.58	-51.11	110.69	51.32	31.88	9.69	33.31	100	13	P	V
		5724.8	65.72	-56.02	121.74	57.44	31.9	9.7	33.32	100	13	P	V
	*	5775	105.16	-	-	96.68	32.05	9.76	33.33	100	13	P	V
	*	5775	89.96	-	-	81.48	32.05	9.76	33.33	100	13	A	V
		5850.4	52.58	-68.71	121.29	43.89	32.2	9.85	33.36	100	13	P	V
		5867.4	53.07	-54.26	107.33	44.34	32.23	9.86	33.36	100	13	P	V
		5885	53.67	-44.1	97.77	44.89	32.27	9.88	33.37	100	13	P	V
		5930.2	54.64	-13.56	68.2	45.68	32.42	9.93	33.39	100	13	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5602.4	52.87	-15.33	68.2	44.81	31.79	9.54	33.27	400	52	P	H
		5687.8	52.99	-43.21	96.2	44.89	31.75	9.65	33.3	400	52	P	H
		5719.2	55.12	-55.46	110.58	46.86	31.88	9.69	33.31	400	52	P	H
		5724.8	61.89	-59.85	121.74	53.61	31.9	9.7	33.32	400	52	P	H
	*	5775	101.51	-	-	93.03	32.05	9.76	33.33	400	52	P	H
	*	5775	86.49	-	-	78.01	32.05	9.76	33.33	400	52	A	H
		5853.6	53	-60.99	113.99	44.3	32.21	9.85	33.36	400	52	P	H
		5859.2	53.07	-56.55	109.62	44.35	32.22	9.86	33.36	400	52	P	H
		5888.8	54.16	-40.8	94.96	45.36	32.28	9.89	33.37	400	52	P	H
802.11ax		5939.2	54.1	-14.1	68.2	45.09	32.46	9.94	33.39	400	52	P	H
HE80													H
Partial													H
484/66		5621.8	52.87	-15.33	68.2	44.87	31.71	9.57	33.28	367	17	P	V
CH 155		5695.6	52.66	-49.3	101.96	44.53	31.78	9.66	33.31	367	17	P	V
5775MHz		5720	58.42	-52.38	110.8	50.16	31.88	9.69	33.31	367	17	P	V
		5725	65.08	-57.12	122.2	56.8	31.9	9.7	33.32	367	17	P	V
	*	5775	105.12	-	-	96.64	32.05	9.76	33.33	367	17	P	V
	*	5775	91.32	-	-	82.84	32.05	9.76	33.33	367	17	A	V
		5853.4	53.44	-61.01	114.45	44.74	32.21	9.85	33.36	367	17	P	V
		5873.2	53.49	-52.21	105.7	44.74	32.25	9.87	33.37	367	17	P	V
		5913.8	53.38	-23.08	76.46	44.48	32.36	9.92	33.38	367	17	P	V
		5932	54.35	-13.85	68.2	45.37	32.43	9.94	33.39	367	17	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 HE40_Partial 242 (SHF)

WIFI ANT 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
WIFI 802.11ax HE40_Partial 242 SHF		29836	42.46	-25.74	68.2	50.98	40.23	6.12	54.87	150	0	P	H
		38020	47.38	-20.82	68.2	52.88	43.14	7.36	56	150	0	P	H
													H
													H
		31178	44.6	-23.6	68.2	52.91	40.49	6.67	55.47	150	0	P	V
		38108	46.92	-21.28	68.2	52.27	43.29	7.34	55.98	150	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ax HE40_Partial 242 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
ANT				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Partial 242/61 CH 151 5755MHz LF		42.61	24.87	-15.13	40	35.97	18.02	0.5	29.65	-	-		H
		105.66	28.66	-14.84	43.5	40.87	16.43	0.89	29.62	-	-		H
		223.03	25.66	-20.34	46	38.13	15.4	1.44	29.45	-	-		H
		556.71	29.57	-16.43	46	29.87	26.02	2.3	28.85	-	-		H
		827.34	33.79	-12.21	46	30.56	28.25	3.05	28.43	-	-		H
		957.32	36.78	-9.22	46	30.38	30.82	3.23	28.12	100	0	P	H
													H
													H
													H
													H
													H
													H
		30	31.75	-8.25	40	36.57	24.31	0.48	29.64	100	0	P	V
		92.08	30.6	-12.9	43.5	44.49	14.9	0.79	29.65	-	-		V
		563.5	29.57	-16.43	46	29.7	26.17	2.32	28.85	-	-		V
		698.33	32.07	-13.93	46	31.33	26.41	2.61	28.56	-	-		V
		778.84	34.31	-11.69	46	31.38	28.19	2.94	28.53	-	-		V
		967.02	37.01	-16.99	54	30.48	30.89	3.27	28.1	-	-		V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**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.	
1+2		(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

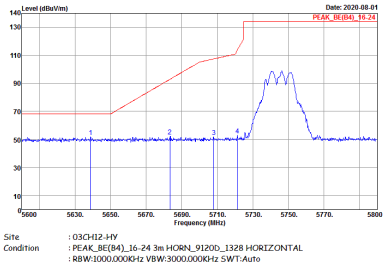
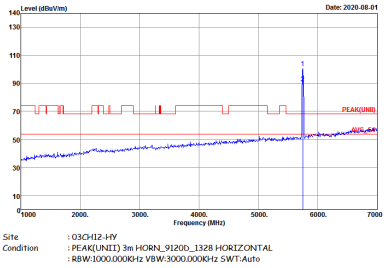
Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	**Temperature :**	22.1~23.1°C
		Relative Humidity :	55~60%

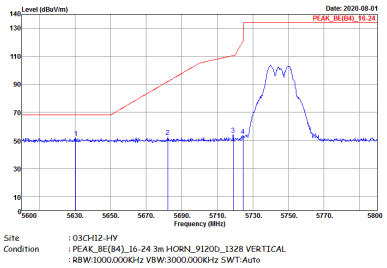
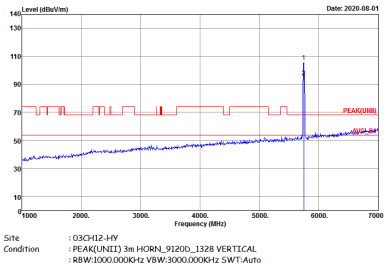
Note symbol

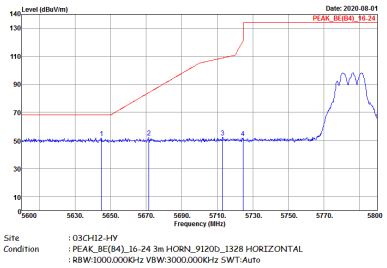
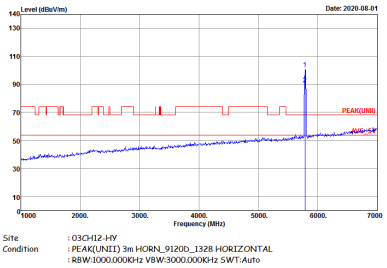
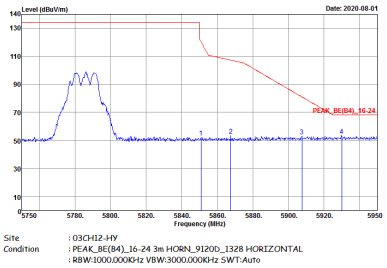
-L	**Low channel location**
-R	**High channel location**

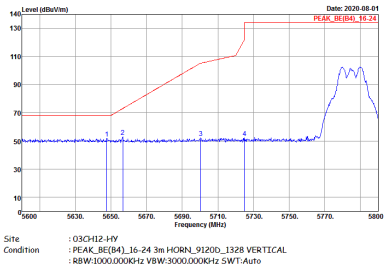
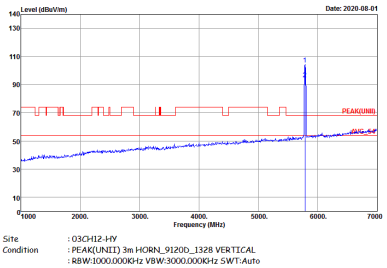
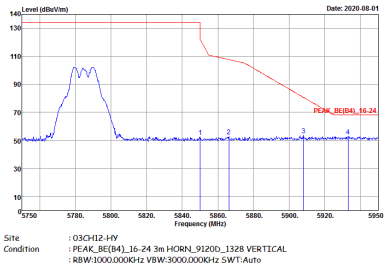
Band 4 - 5725~5850MHz

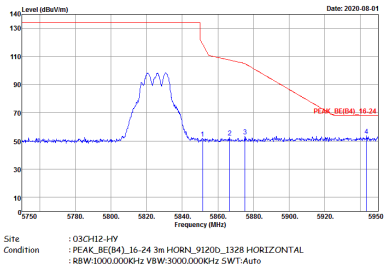
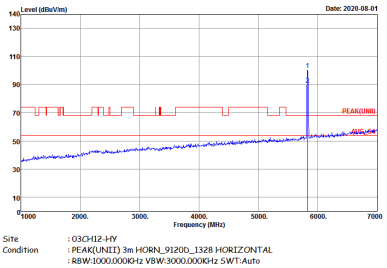
WIFI 802.11a (Band Edge @ 3m)

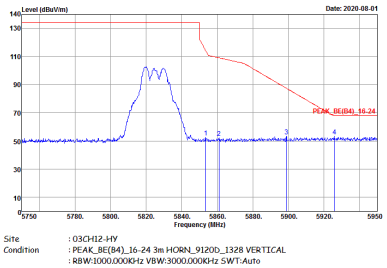
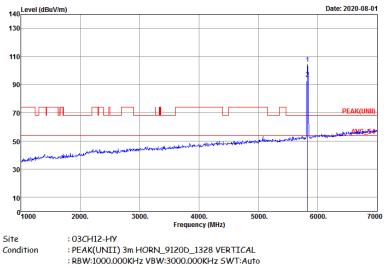
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
0+1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

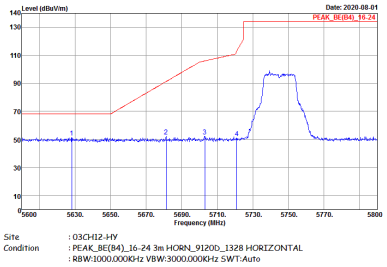
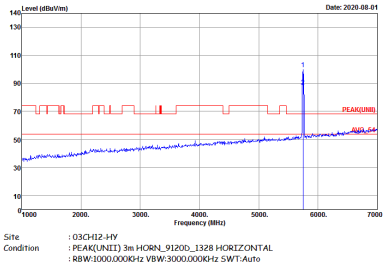
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

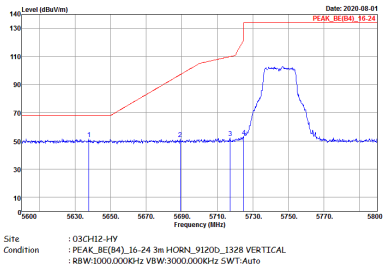
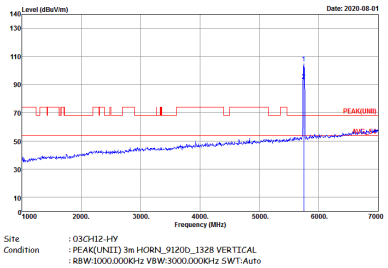
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak		

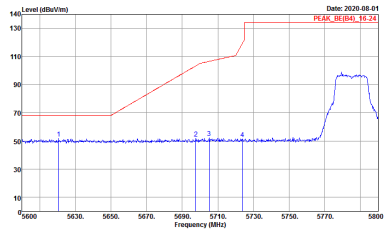
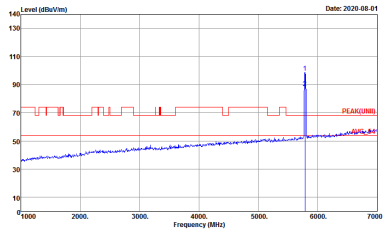
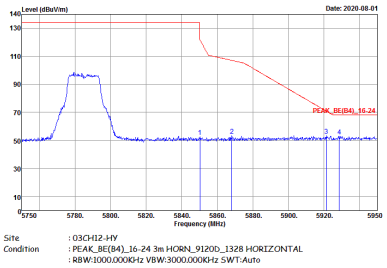
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
0+1	Vertical	Fundamental
Peak		

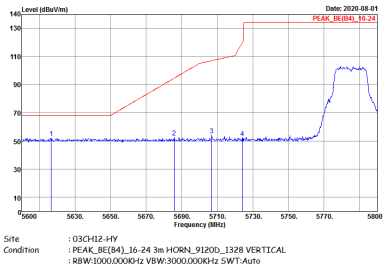
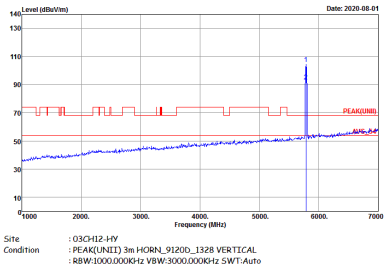
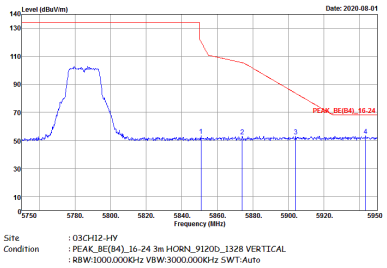
Band 4 5725~5850MHz

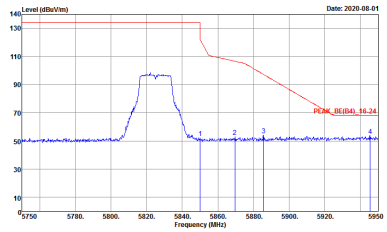
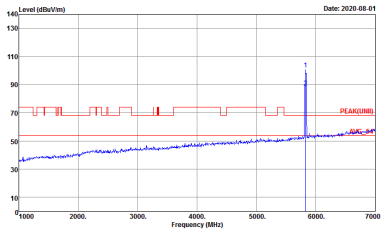
WIFI 802.11n HT20 (Band Edge @ 3m)

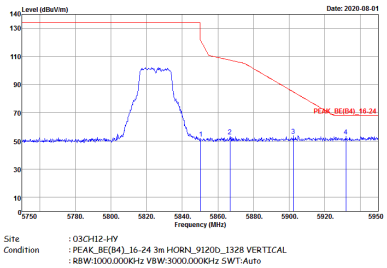
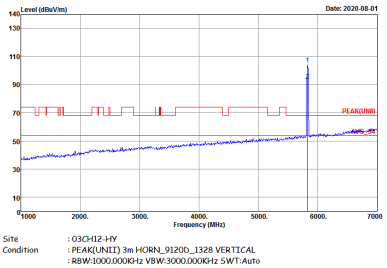
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
0+1	Vertical	Fundamental
Peak		

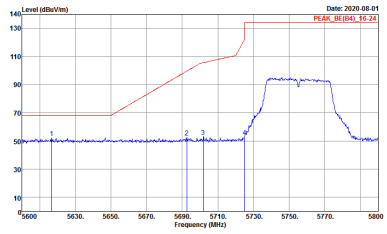
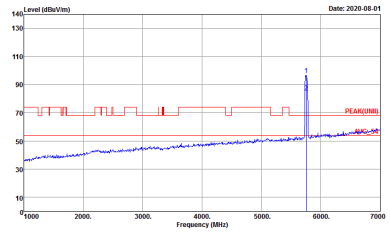
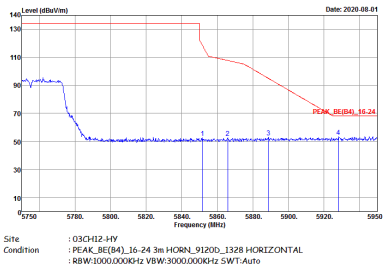
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

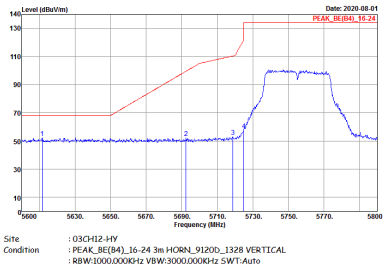
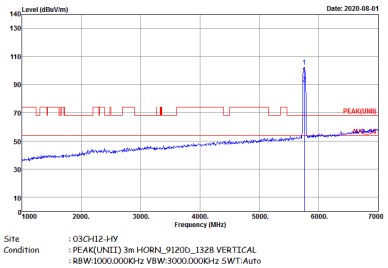
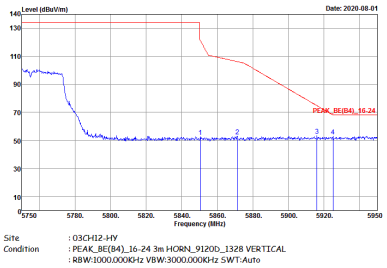
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

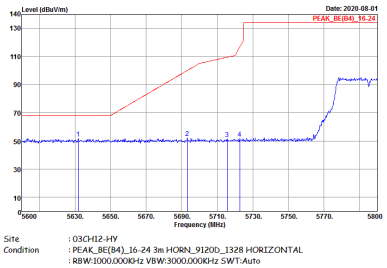
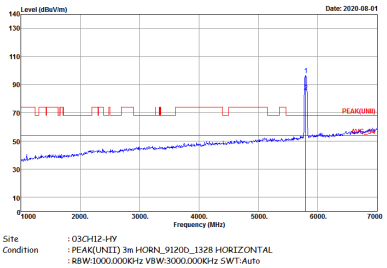
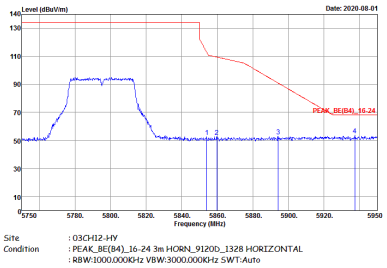
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

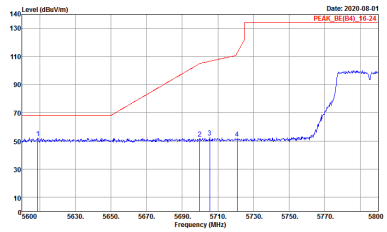
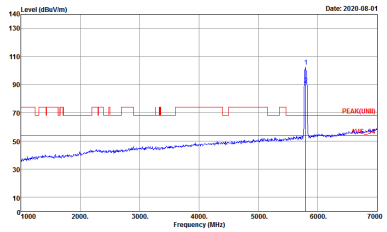
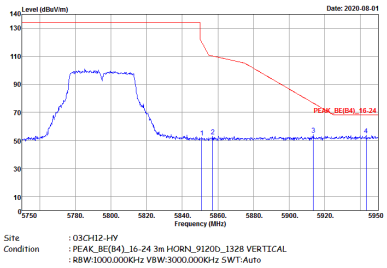
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
0+1	Vertical	Fundamental
Peak		

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

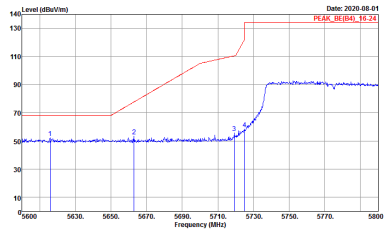
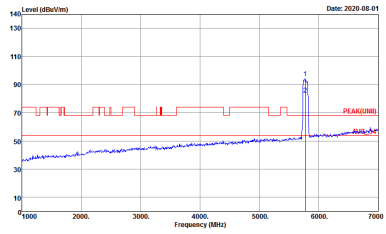
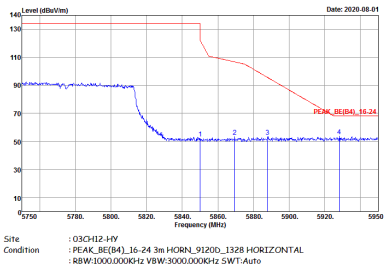
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

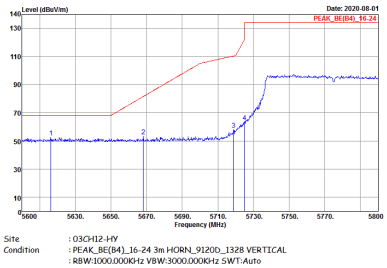
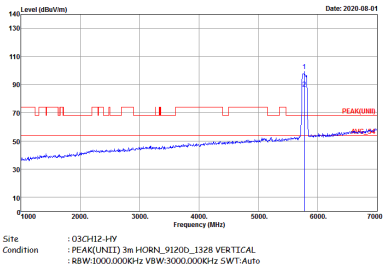
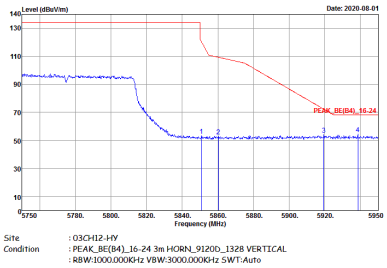
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

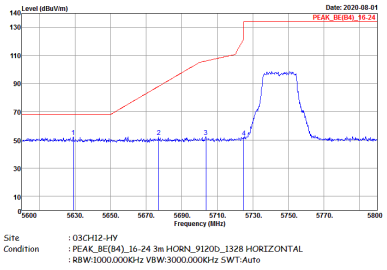
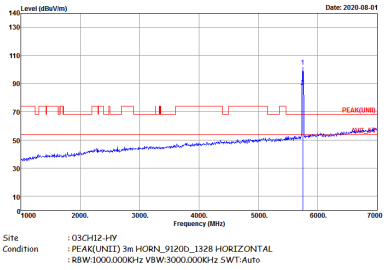
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

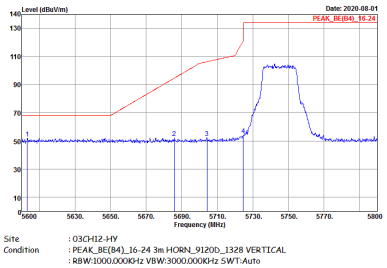
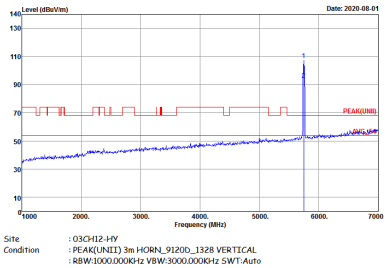
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

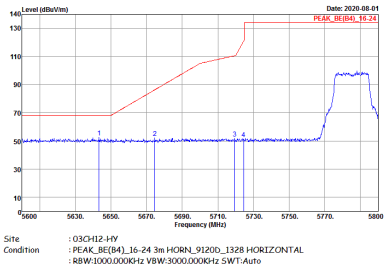
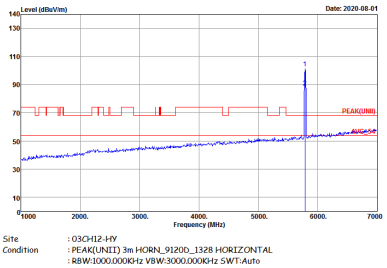
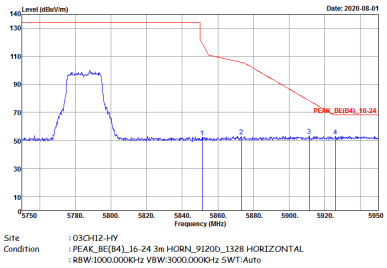
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

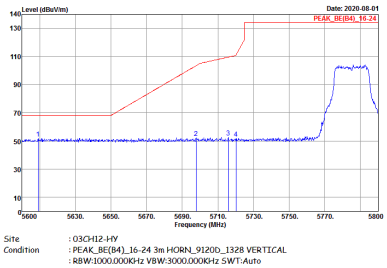
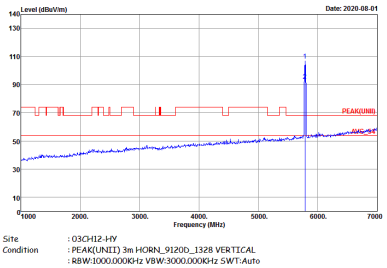
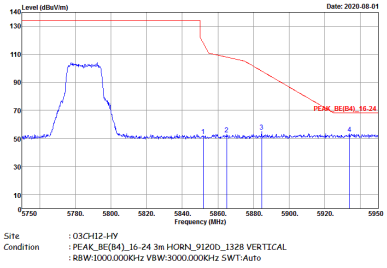
Band 4 - 5725~5850MHz

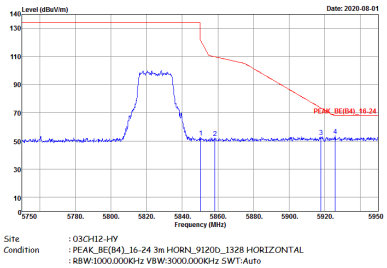
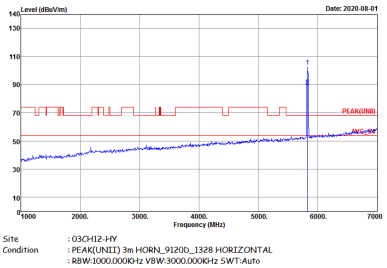
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

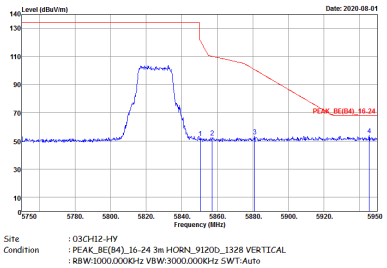
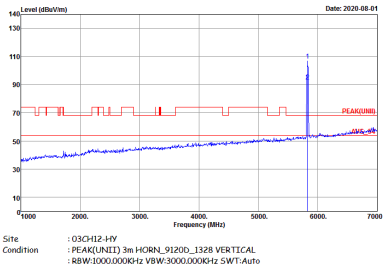
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
0+1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

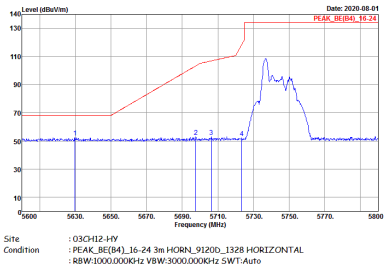
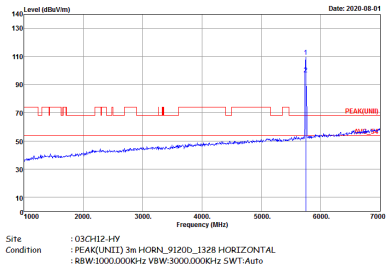
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

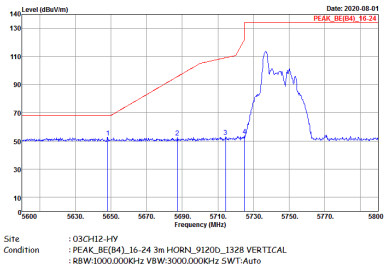
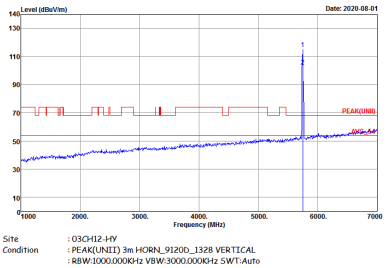
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak		

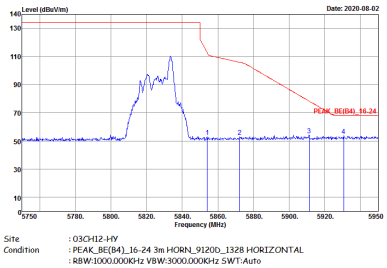
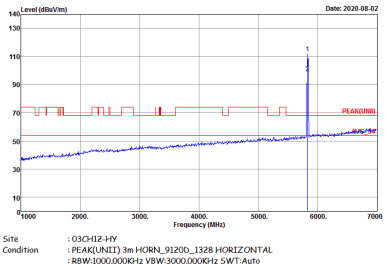
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
0+1	Vertical	Fundamental
Peak		

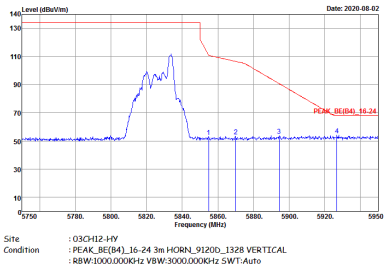
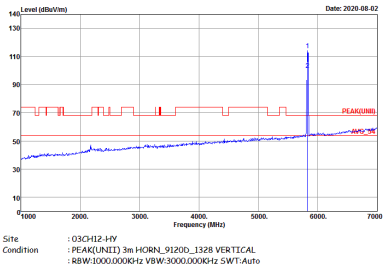
Band 4 5725~5850MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak		

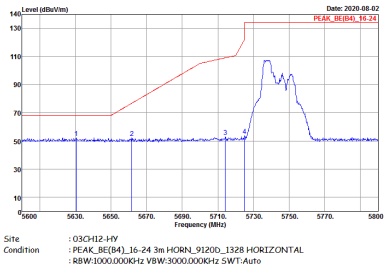
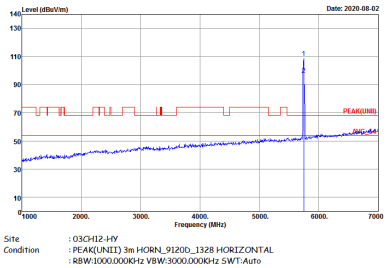
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH149 5745MHz	
0+1	Vertical	Fundamental
Peak		

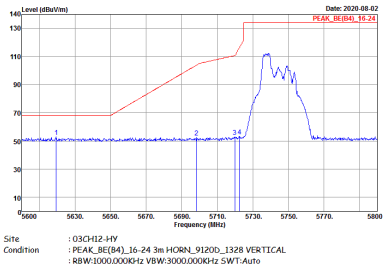
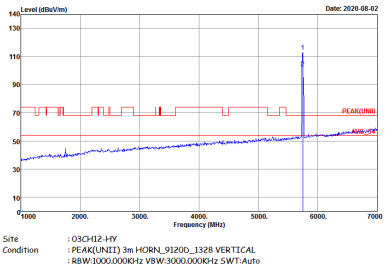
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak		

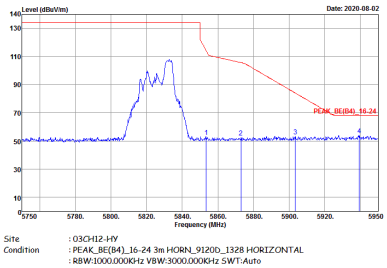
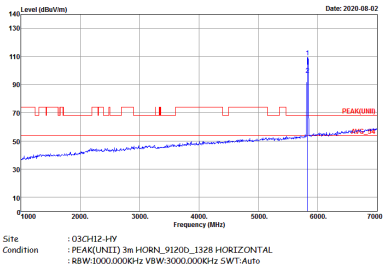
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH165 5825MHz	
0+1	Vertical	Fundamental
Peak		

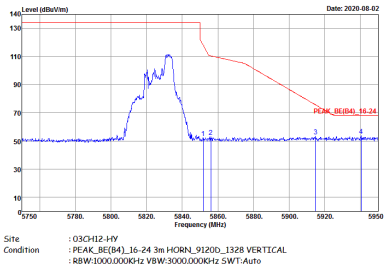
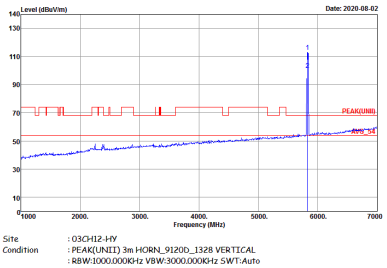
Band 4 5725~5850MHz

WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/37 CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak		

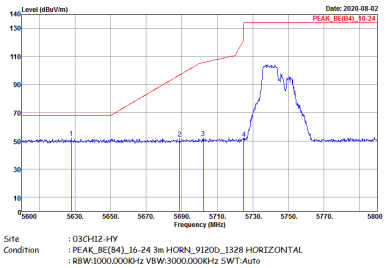
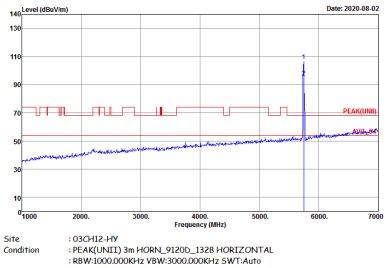
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/37 CH149 5745MHz	
0+1	Vertical	Fundamental
Peak		

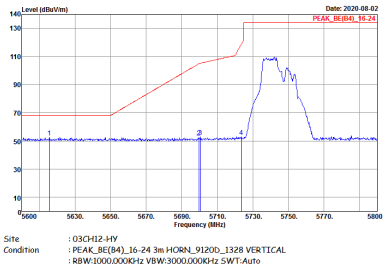
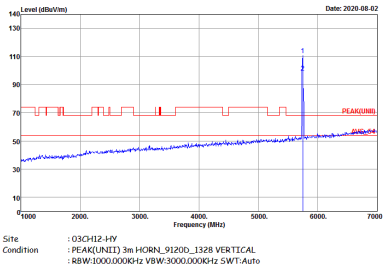
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/40 CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak		

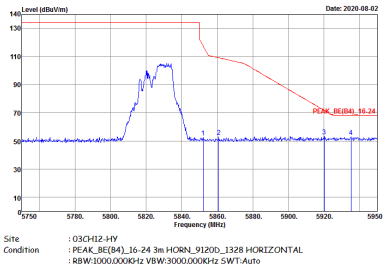
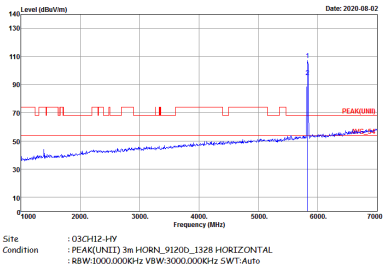
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/40 CH165 5825MHz	
0+1	Vertical	Fundamental
Peak		

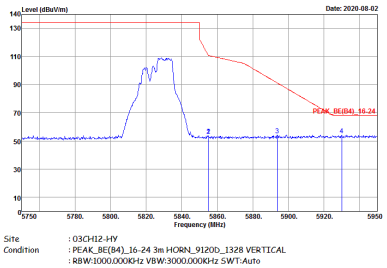
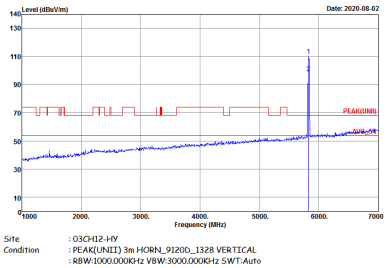
Band 4 5725~5850MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

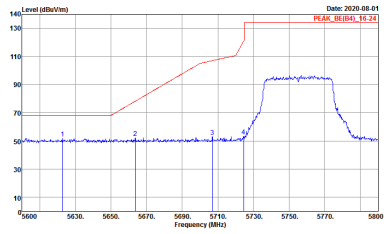
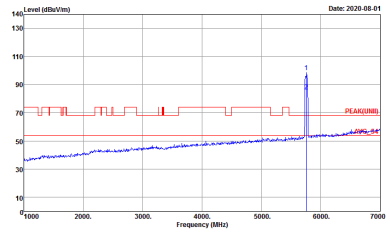
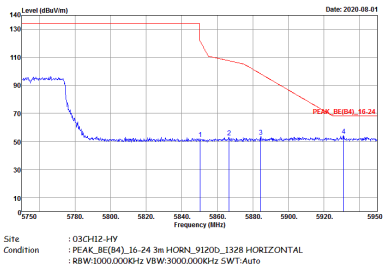
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
0+1	Horizontal	Fundamental
Peak		

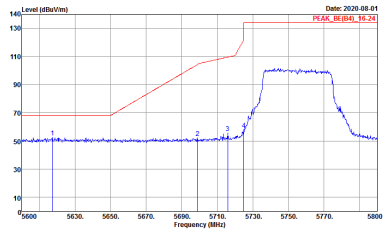
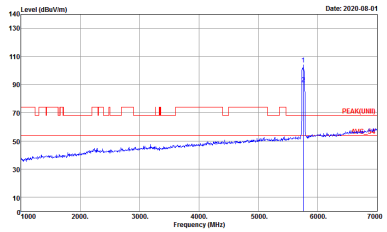
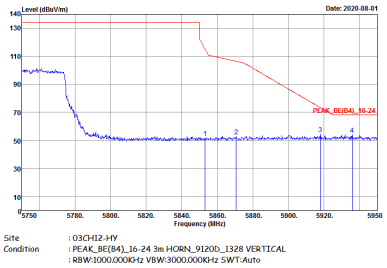
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
0+1	Vertical	Fundamental
Peak		

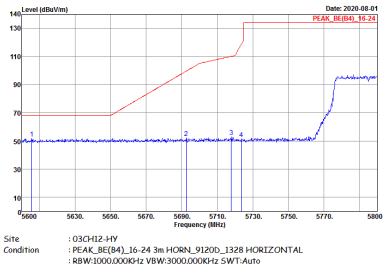
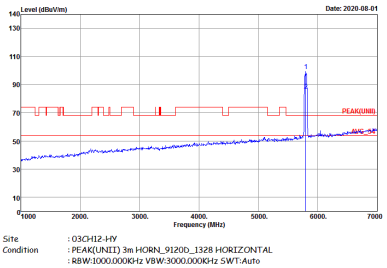
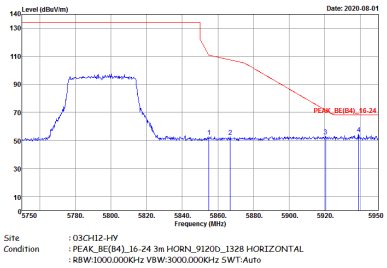
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
0+1	Horizontal	Fundamental
Peak		

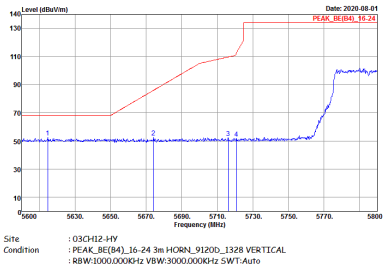
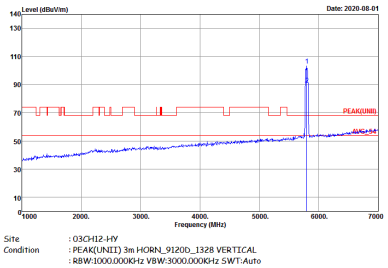
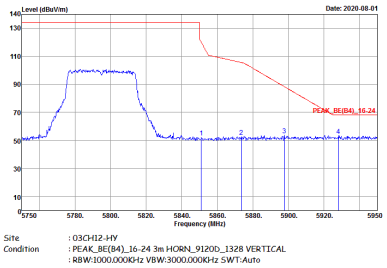
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
0+1	Vertical	Fundamental
Peak		

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	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

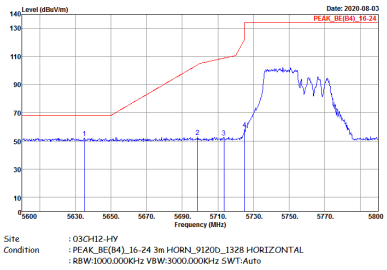
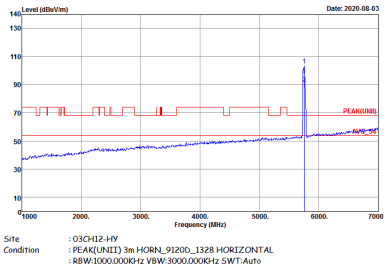
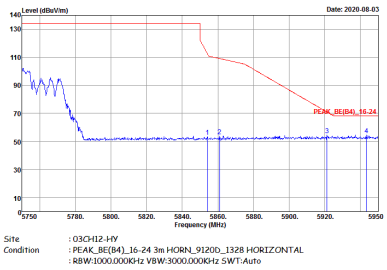
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

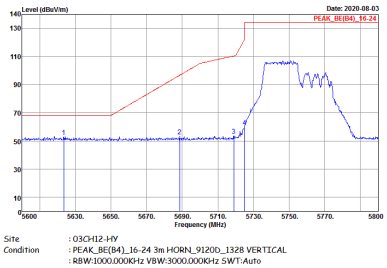
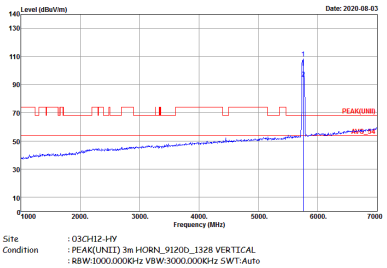
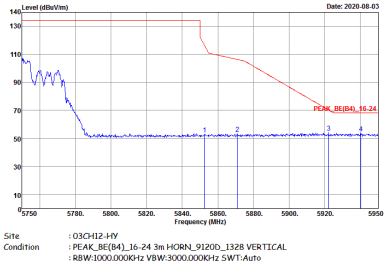
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

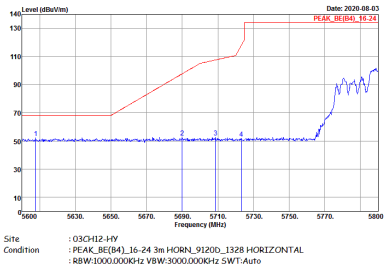
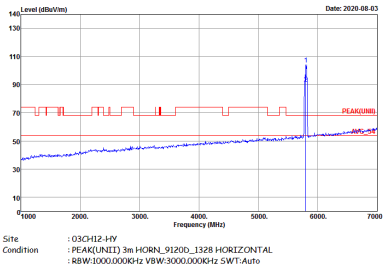
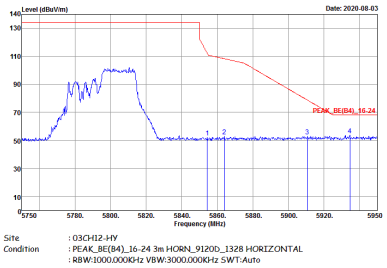
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

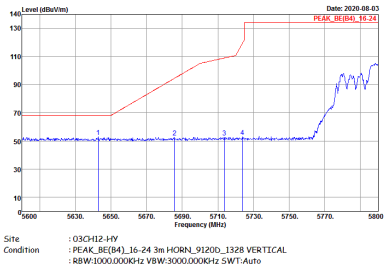
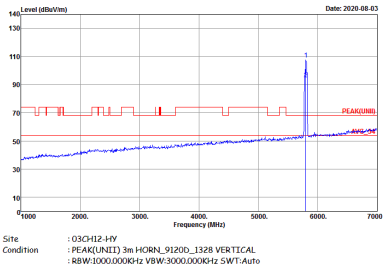
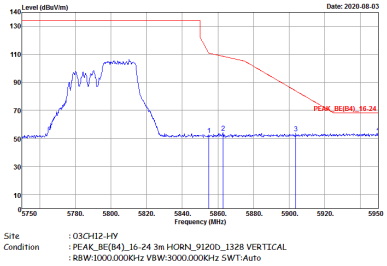
Band 4 5725~5850MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

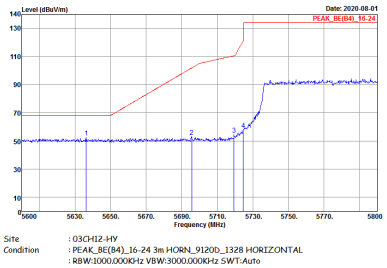
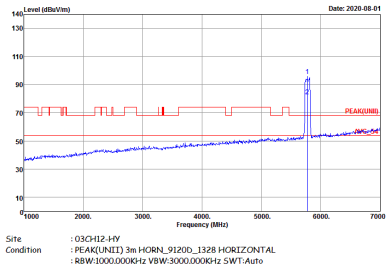
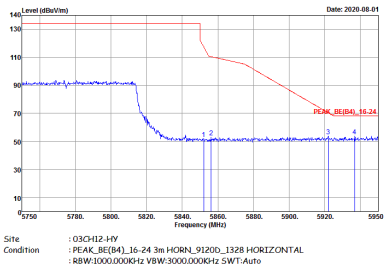
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

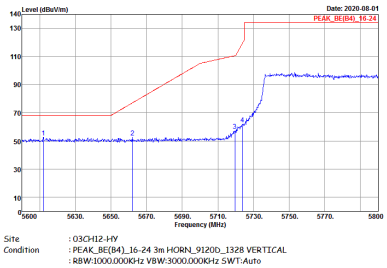
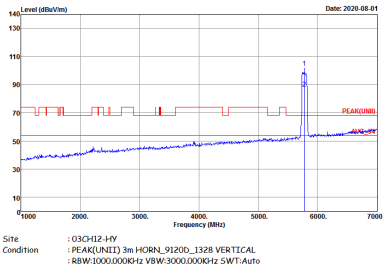
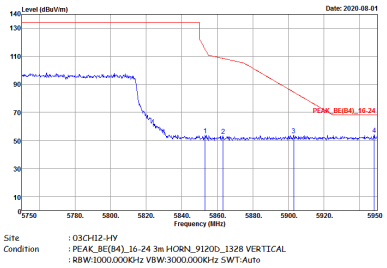
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

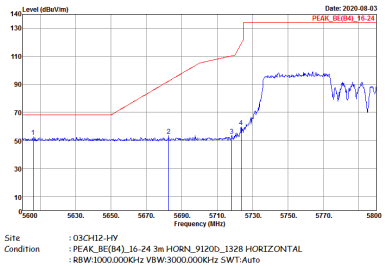
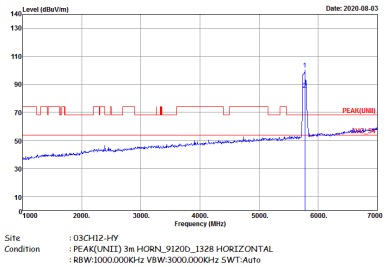
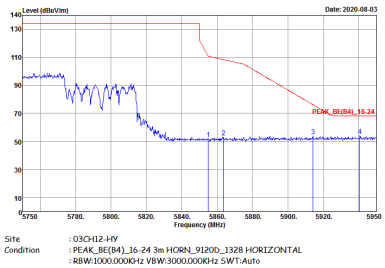
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

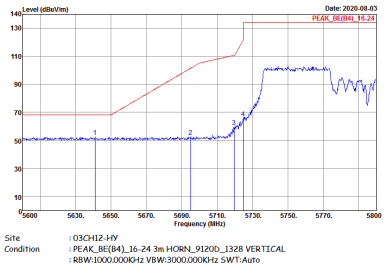
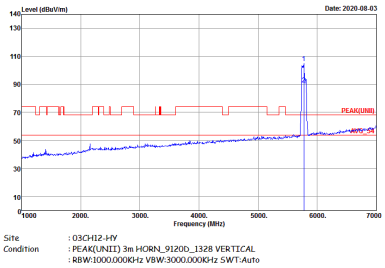
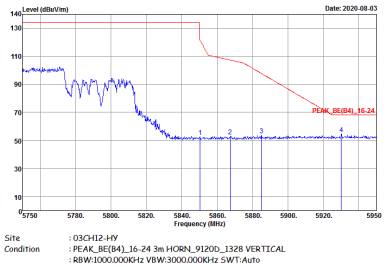
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

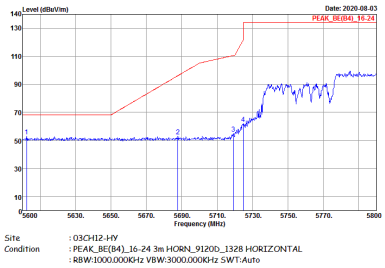
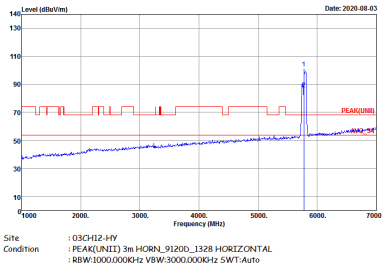
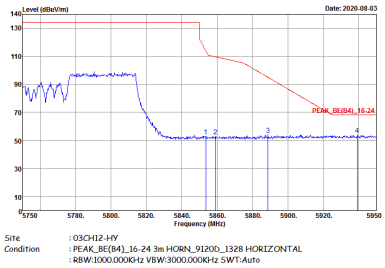
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

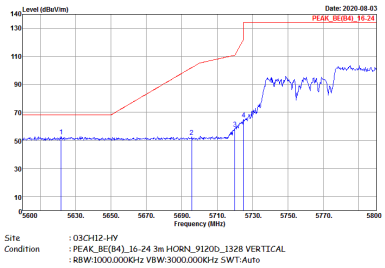
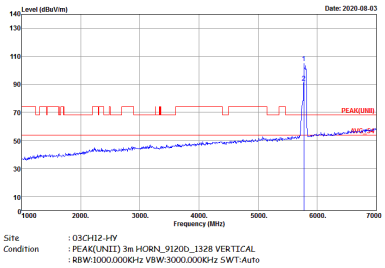
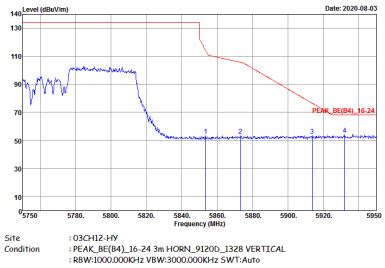
Band 4 5725~5850MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

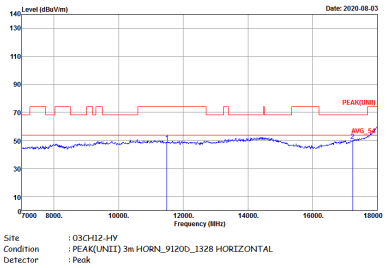
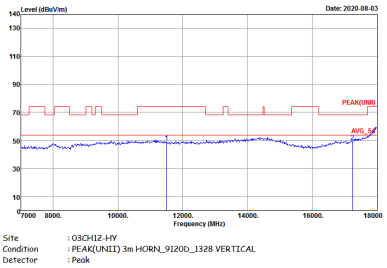
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

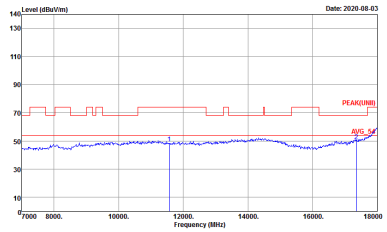
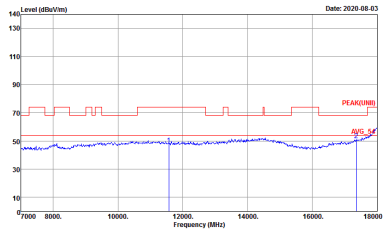
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
0+1	Horizontal	Fundamental
Peak		
Peak		Left blank

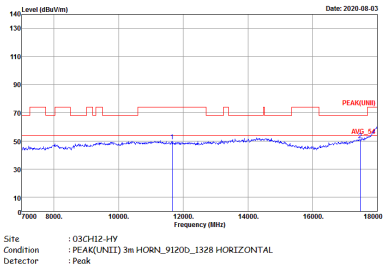
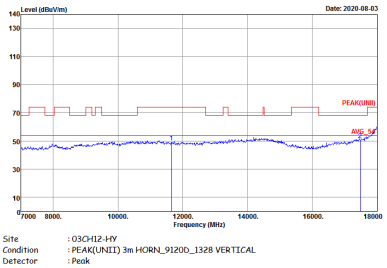
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
0+1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

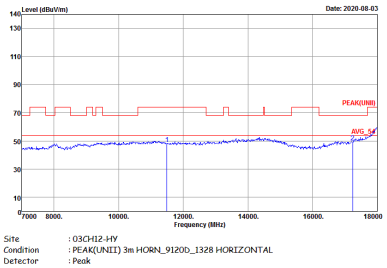
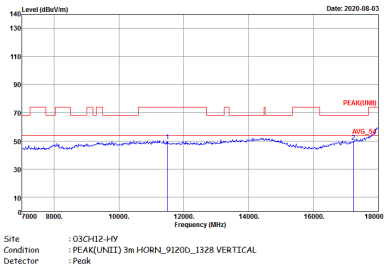
WIFI 802.11a (Harmonic @ 3m)

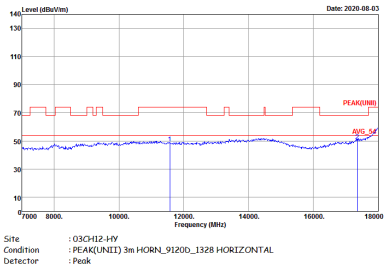
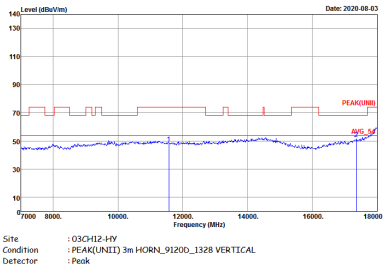
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
0+1	Horizontal	Vertical
Peak Avg.		

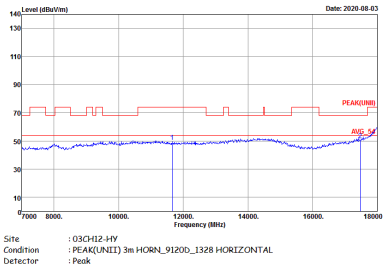
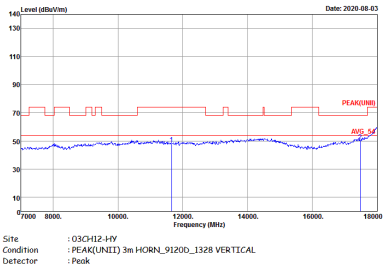
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
0+1	Horizontal	Vertical
Peak Avg.		

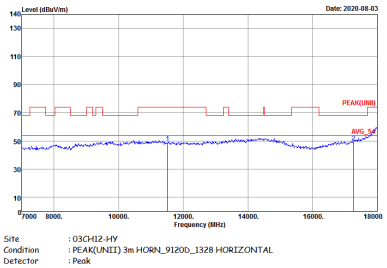
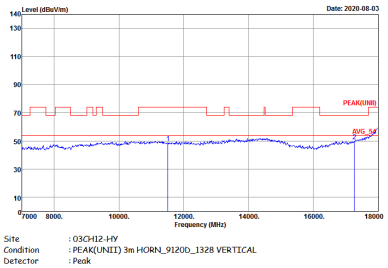
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

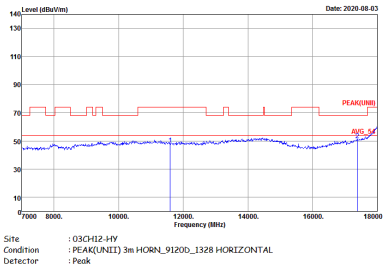
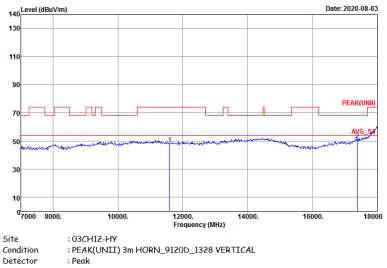
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
0+1	Horizontal	Vertical
Peak Avg.		

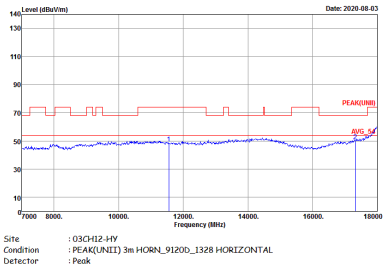
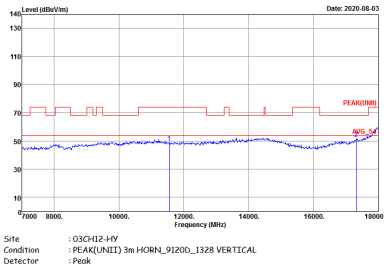
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
0+1	Horizontal	Vertical
Peak Avg.		

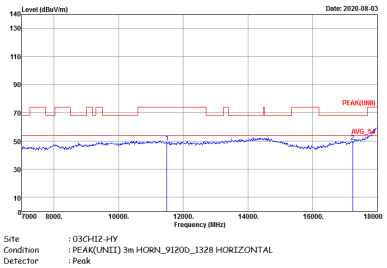
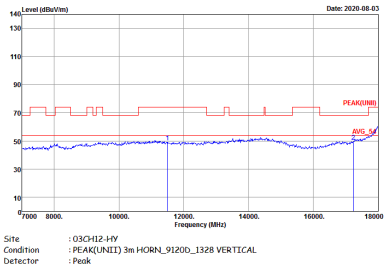
Band 4 5725~5850MHz

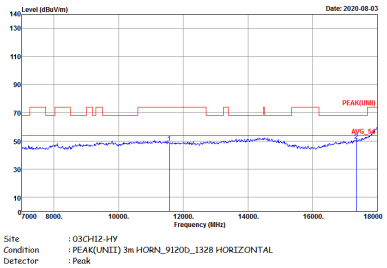
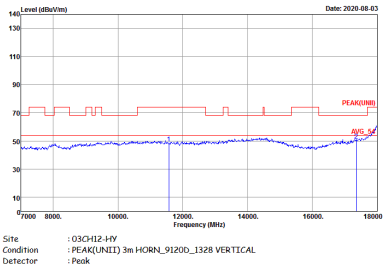
WIFI 802.11ac VHT80 (Harmonic @ 3m)

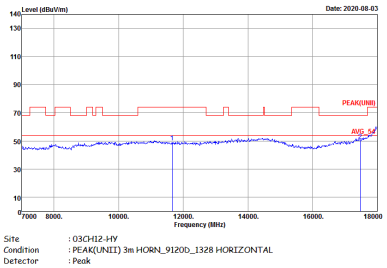
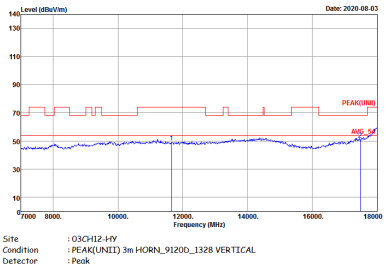
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

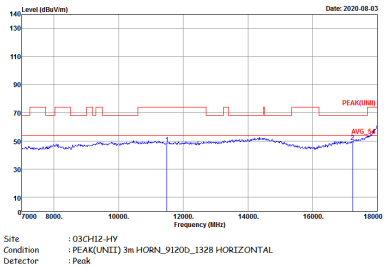
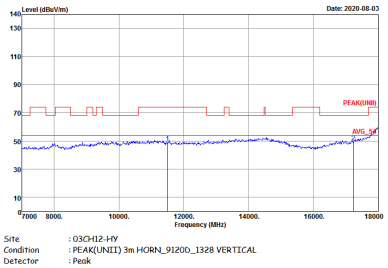
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
0+1	Horizontal	Vertical
Peak Avg.		

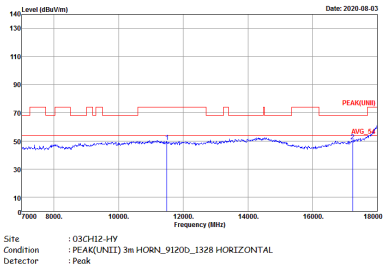
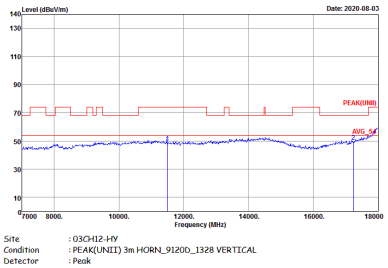
Band 4 5725~5850MHz

WIFI 802.11ax HE20 Partial 26 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH149 5745MHz	
0+1	Horizontal	Vertical
Peak Avg.		

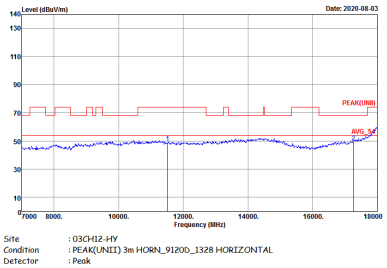
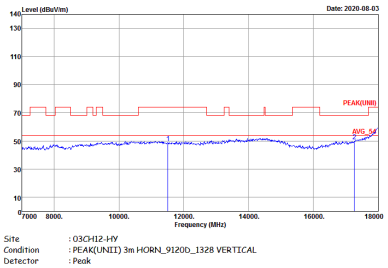
Band 4 5725~5850MHz

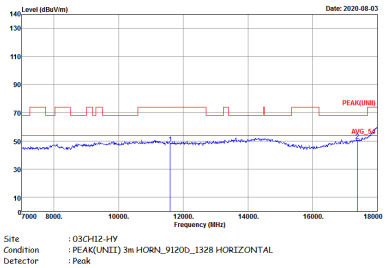
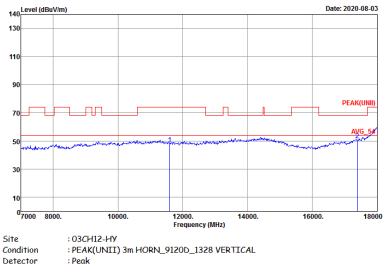
WIFI 802.11ax HE20 Partial 52 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Partial 52/37 CH149 5745MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

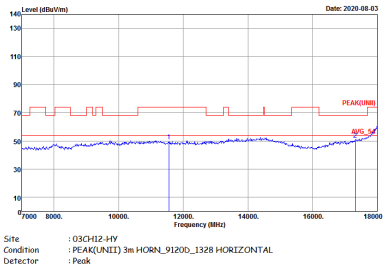
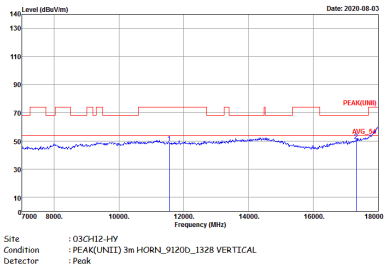
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
0+1	Horizontal	Vertical
Peak Avg.		

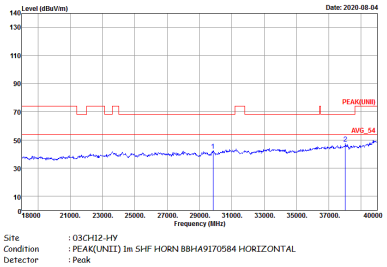
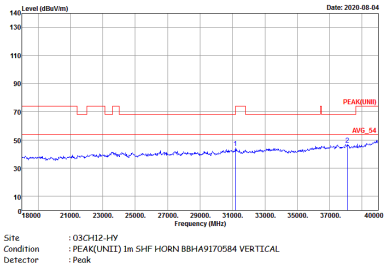
Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
0+1	Horizontal	Vertical
Peak Avg.		

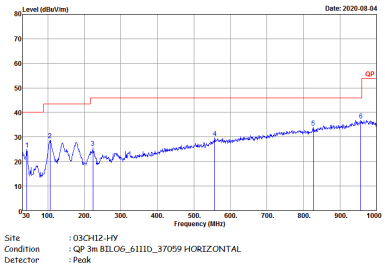
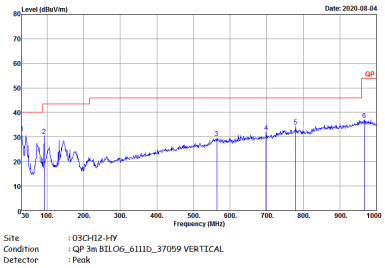
Emission above 18GHz

WIFI 802.11ax HE40 (SHF)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax 18~40G	
0+1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

5GHz WIFI 802.11ax HE40 (LF)

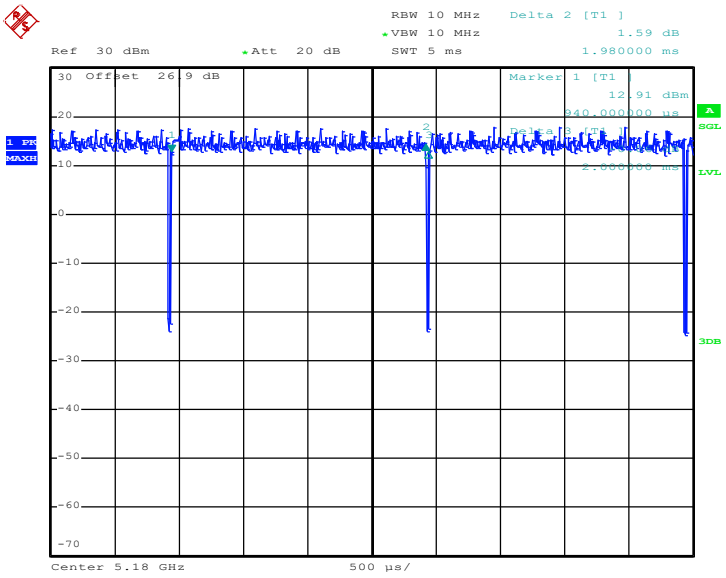
WIFI	5GHz WIFI	
ANT	802.11ax HE40 LF	
0+1	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
0+1	802.11a for Ant. 0	99.00	-	-	10Hz	0.04
0+1	802.11a for Ant. 1	99.00	-	-	10Hz	0.04
0+1	5GHz 802.11n HT20 for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11n HT20 for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11n HT40 for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11n HT40 for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ac VHT80 for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ac VHT80 for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 Full RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 Full RU for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 26 RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 26 RU for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 52 RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 52 RU for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 106 RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE20 106 RU for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE40 Full RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE40 Full RU for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE40 242 RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE40 242 RU for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE80 Full RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE80 Full RU for Ant. 1	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE80 484 RU for Ant. 0	100.00	-	-	10Hz	0.00
0+1	5GHz 802.11ax HE80 484 RU for Ant. 1	100.00	-	-	10Hz	0.00

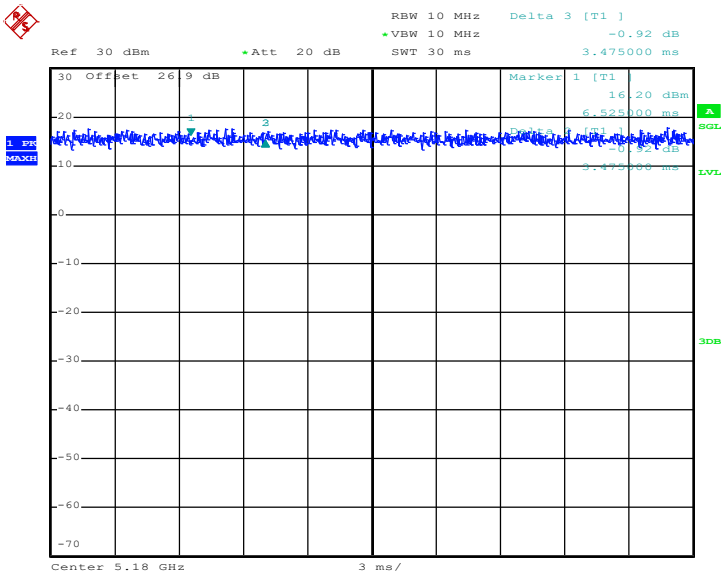
MIMO <Ant. 0>

802.11a



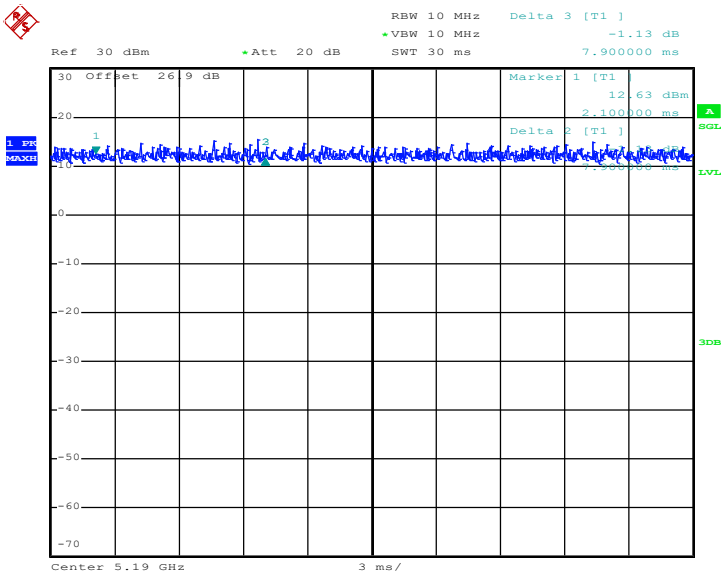
Date: 8.JUL.2020 14:12:37

802.11n HT20



Date: 8.JUL.2020 14:50:43

802.11n HT40



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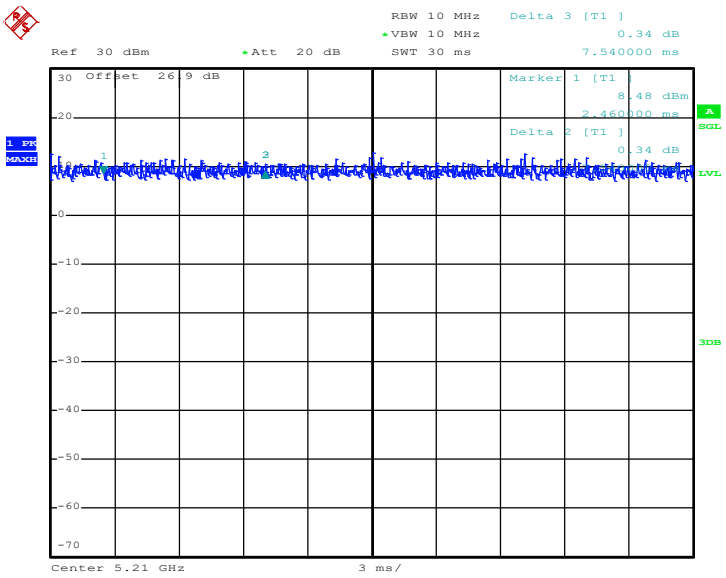
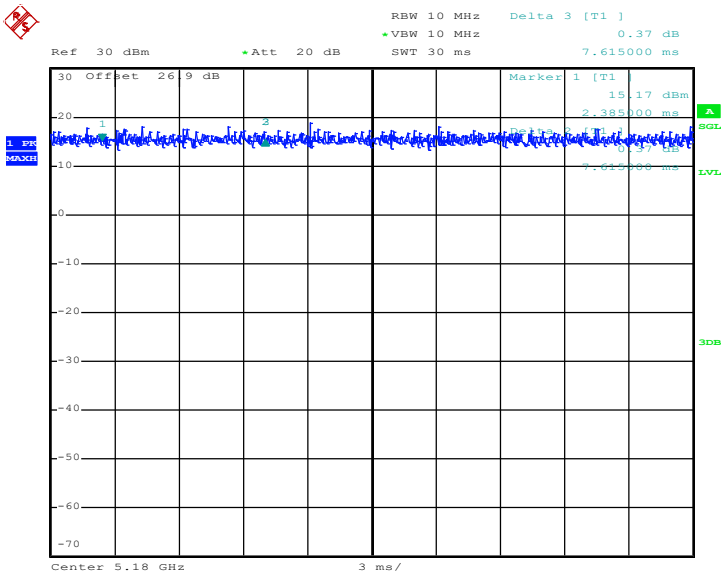
802.11ac VHT80



Date: 8.JUL.2020 15:12:07

802.11ax HE20 Full RU



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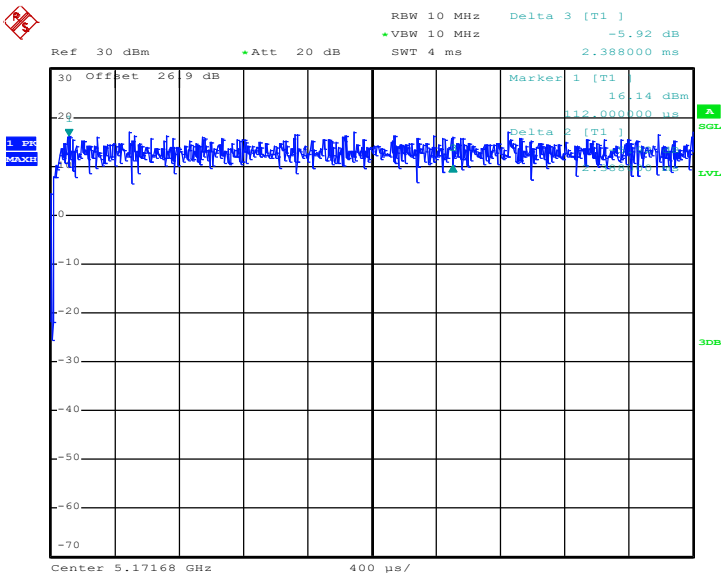
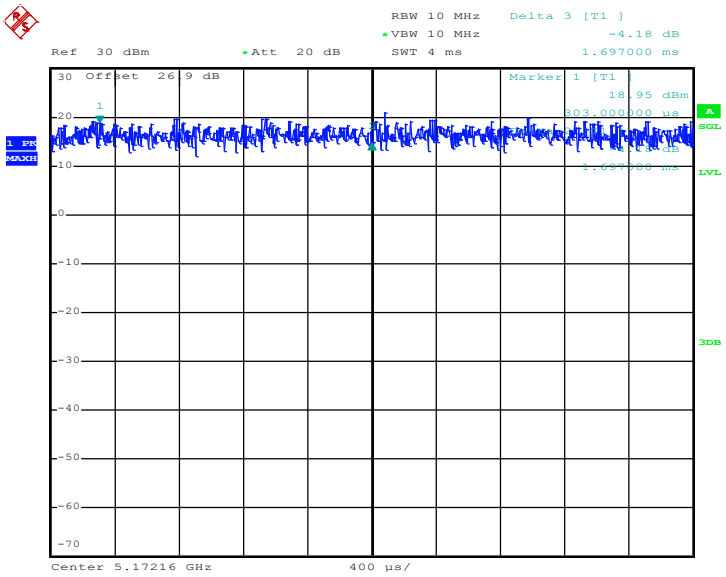
802.11ax HE20 26 RU



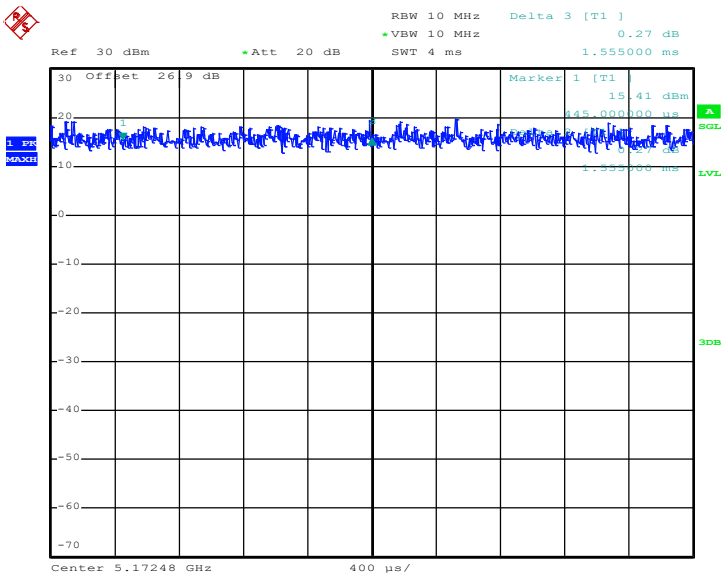
Date: 10.JUL.2020 01:42:03

802.11ax HE20 52 RU



Date: 10.JUL.2020 02:08:33

802.11ax HE20 106 RU



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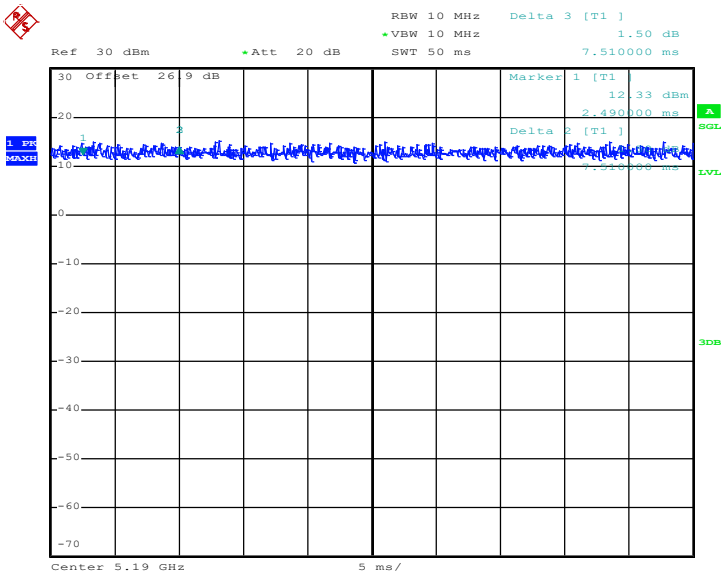
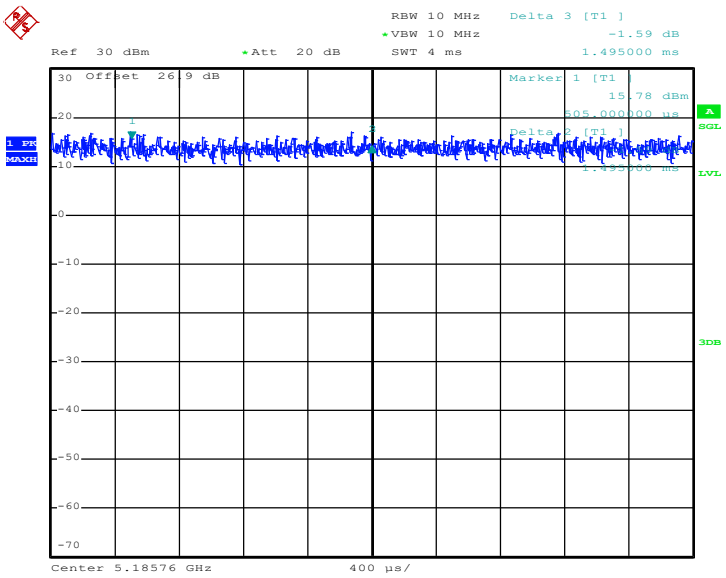
802.11ax HE40 Full RU



Date: 8.JUL.2020 15:28:07

802.11ax HE40 242 RU



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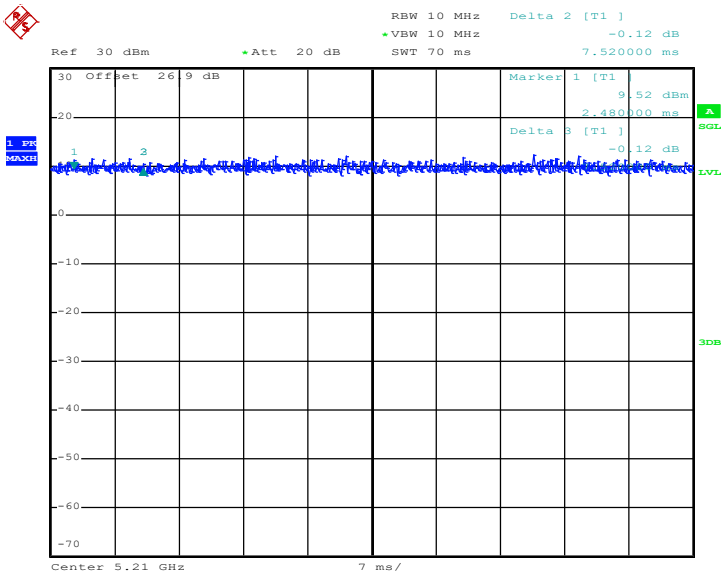
802.11ax HE80 Full RU



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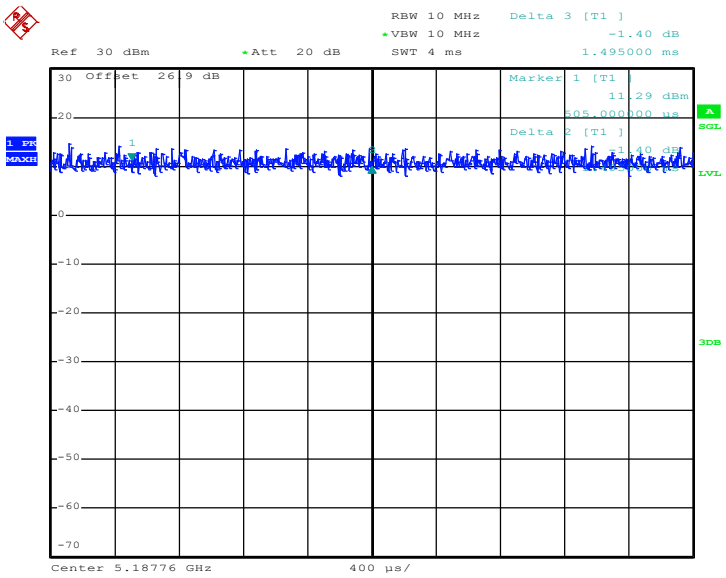
802.11ax HE80 484 RU



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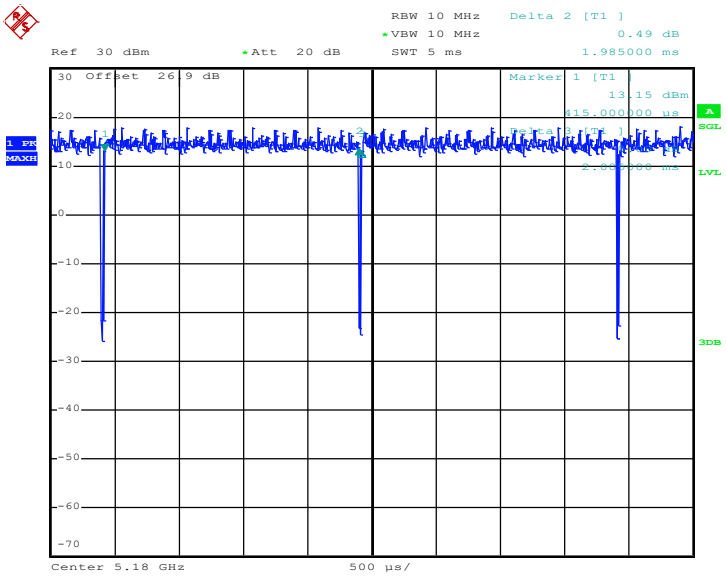
MIMO <Ant. 1>

802.11a



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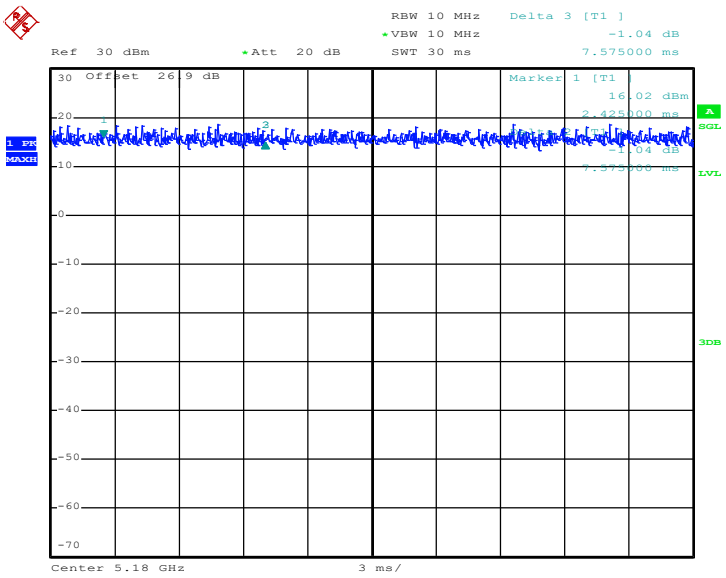
802.11n HT20



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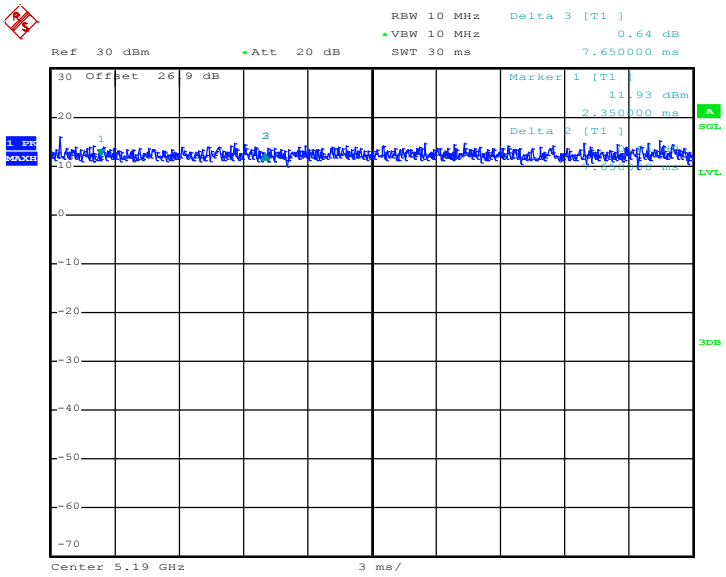
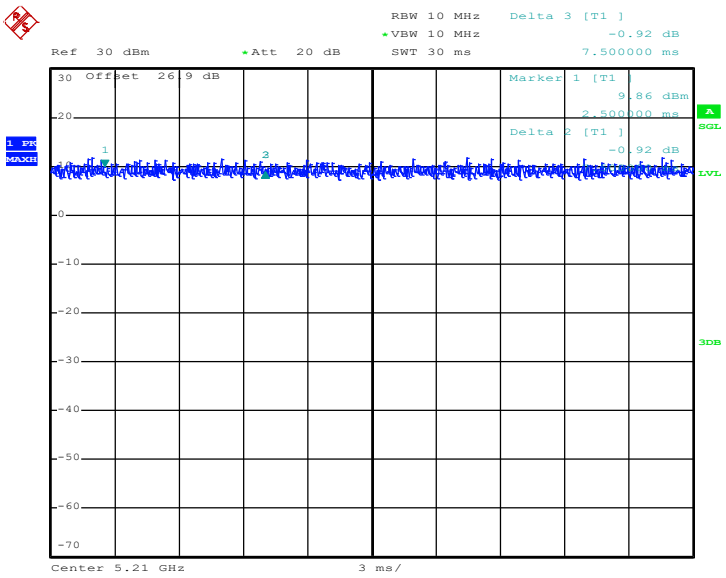
802.11n HT40



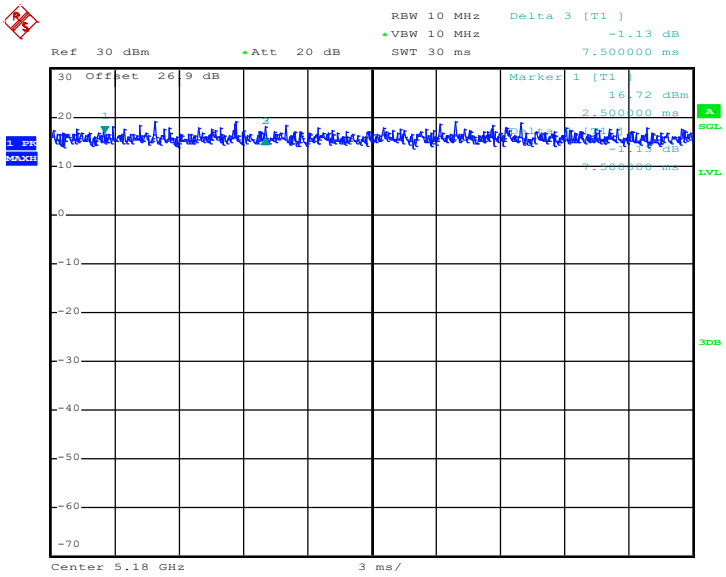
Date: 8.JUL.2020 14:58:50

802.11ac VHT80



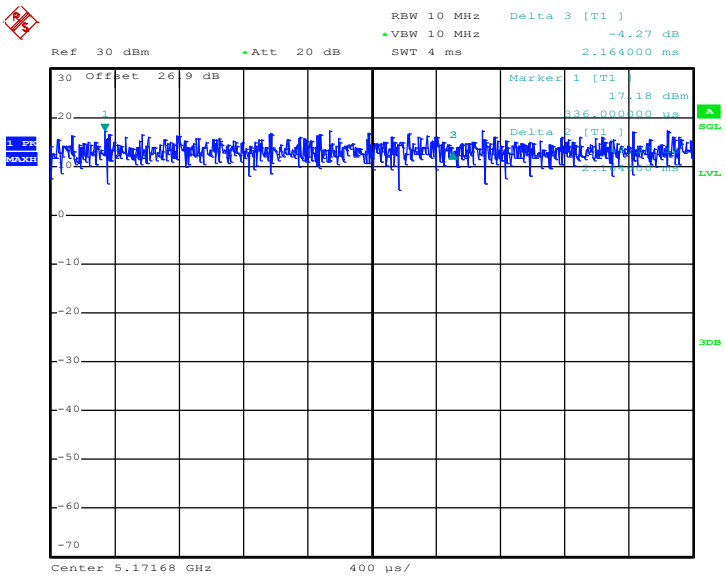
Date: 8.JUL.2020 15:12:55

802.11ax HE20 Full RU



Date: 8.JUL.2020 15:20:03

802.11ax HE20 26 RU



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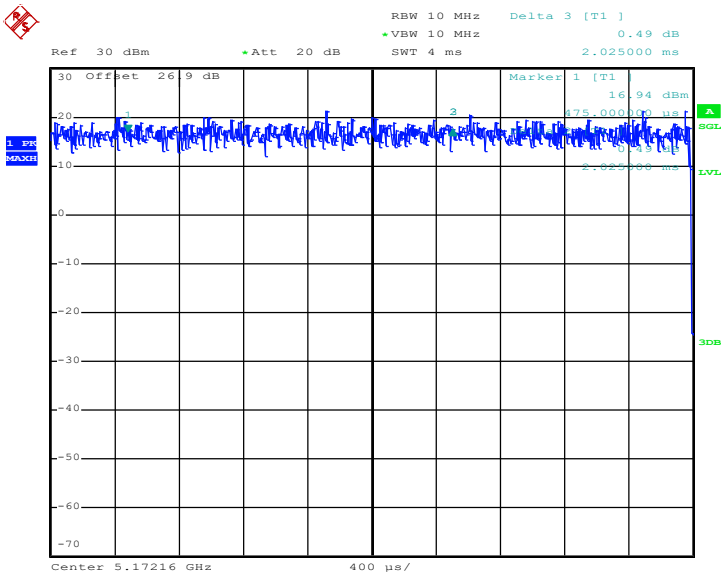
802.11ax HE20 52 RU



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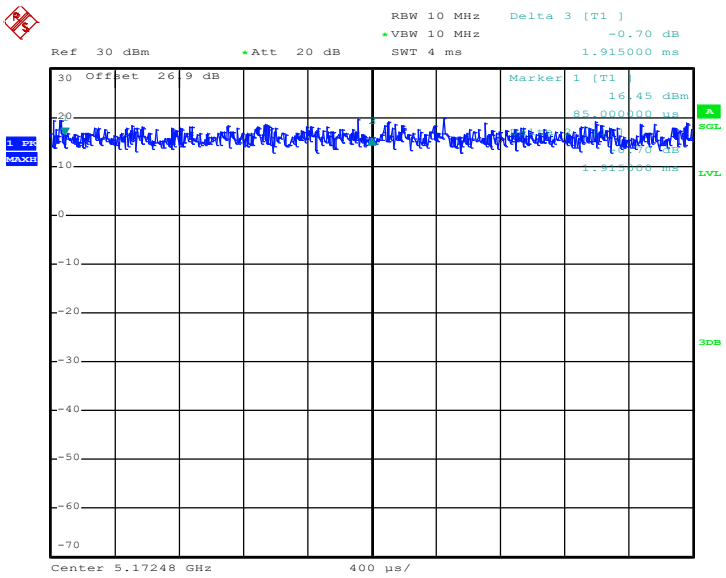
802.11ax HE20 106 RU



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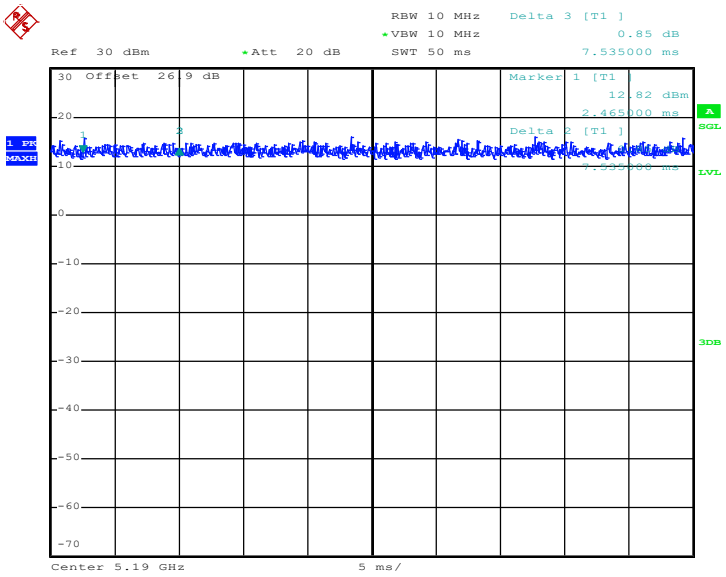
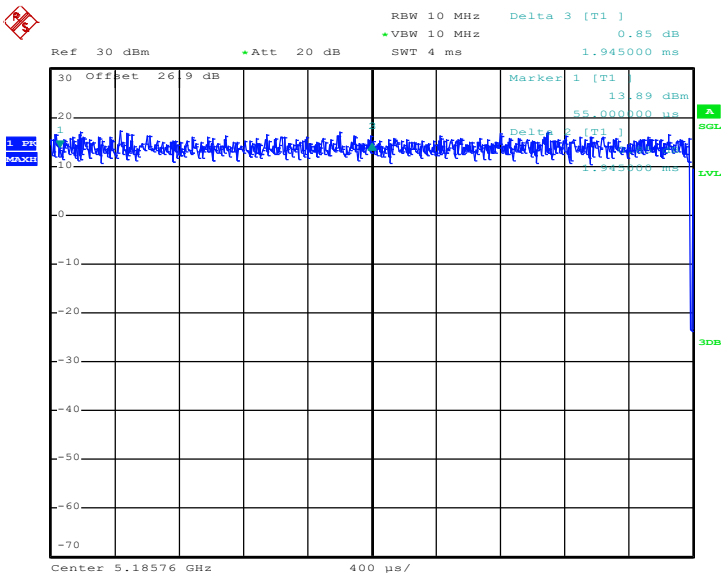
802.11ax HE40 Full RU



Date: 8.JUL.2020 15:28:42

802.11ax HE40 242 RU



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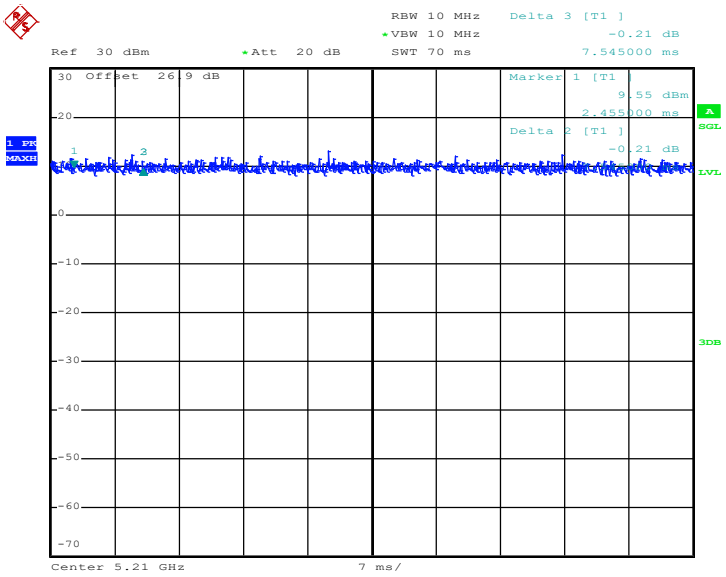
802.11ax HE80 Full RU



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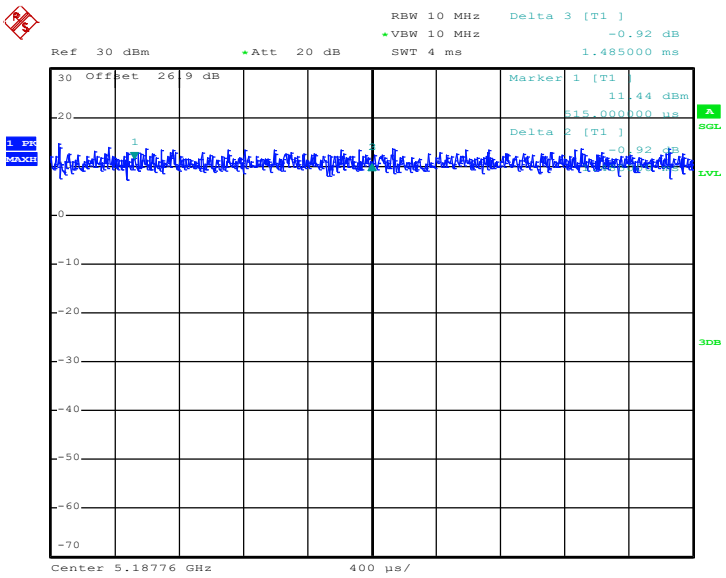
802.11ax HE80 484 RU



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