



FCC RADIO TEST REPORT

FCC ID : QYLAX201NG
Equipment : WLAN module
Brand Name : Getac
Model Name : AX201NGW
Marketing Name : AX201NGW
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec. 1, Nangang Rd.,
Nangang Dist., Taipei City 11568, Taiwan, R.O.C.
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jan. 06, 2020 and testing was started from Jan. 21, 2020 and completed on Feb. 15, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this partial 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
FR6D2154-33E	01	Initial issue of report	Feb. 25, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
3.1	15.407 (a)	Maximum Conducted Output Power	Pass
3.2	15.407(b)	Unwanted Emissions	Pass
3.3	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: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, and Wi-Fi 5GHz 802.11a/n/ac/ax

Product Specification subjective to this standard	
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
Antenna Type	WLAN: <Chain A> : PIFA Antenna <Chain B> : PIFA Antenna Bluetooth: PIFA Antenna

The product was installed into Tablet PC (Brand Name: Getac, Model Name: A140,A140G2) during test, and the host information was recorded in the following table.

Host Information		
Host 1	EUT with Model Name A140G2 and SKU 1	
Host 2	EUT with Model Name A140G2 and SKU 2	

SKU	SKU 1	SKU 2
CPU	i5 (i5-10210U)	i7 (i7-10510U)
WWAN	Support (EM7455)	Support (EM7455)
WLAN	Support (AX201NGW)	Support (AX201NGW)
RFID	Not Support	Support (PN7462)
GPS	Not Support	Support (MC1010)
Finger printer	N/A(RS-232)	Support
BCR	Not Support	Support

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	03CH07-HY

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

FCC designation No.: TW1190

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. 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

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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

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.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802. 11ax HE80	MCS0

MIMO Mode

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802. 11ax HE80	MCS0

Ch. #		Band IV : 5725-5850 MHz	
		802.11ax HE40	802. 11ax HE80
L	Low	151	-
M	Middle	-	155
H	High	-	-

Remark:

- For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.
- For Radiated Test Cases, the tests were performed with sample 2 and AC adapter (FSP065-RBBN3).

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “DRTU_V12.1947.0-10428” was installed in EUT 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.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

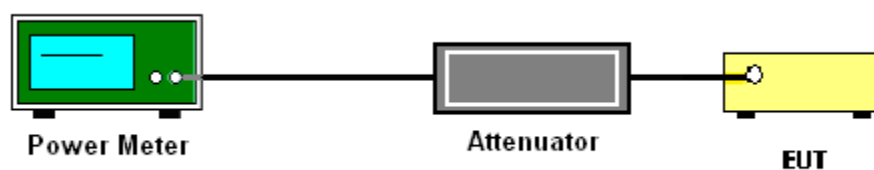
3.1.3 Test Procedures

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

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 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.

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

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

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

- (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.
- (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

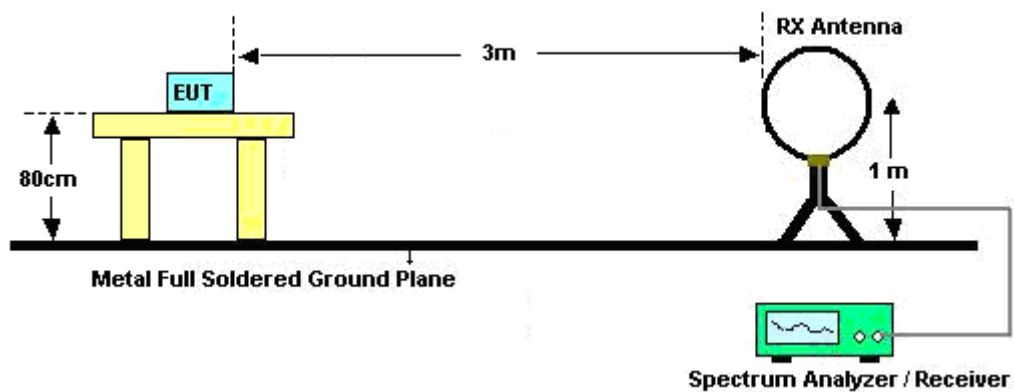
3.2.3 Test Procedures

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 $\geq$ 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 $\geq$ $1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 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.

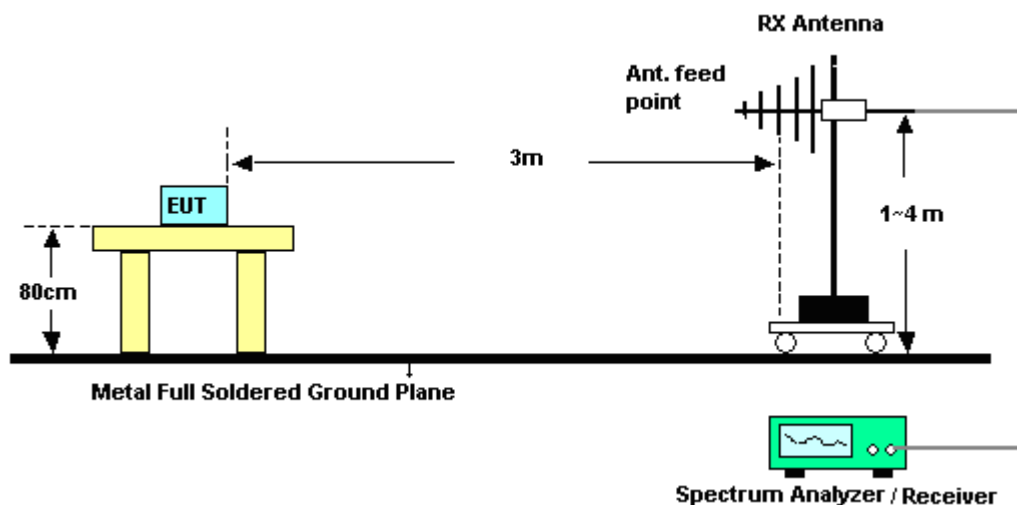
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, 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.

3.2.4 Test Setup

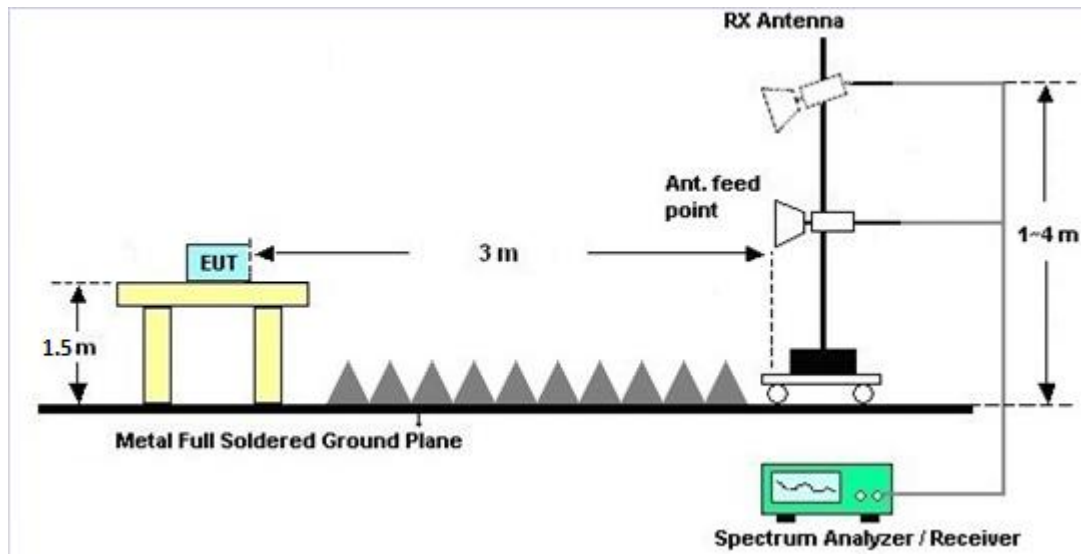
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 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.

3.2.6 Test Result of Radiated Band Edges

Please refer to Appendix B and C.

3.2.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.3 Antenna Requirements

3.3.1 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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} 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>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Chain A	Chain B	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	1.10	1.03	1.10	4.08	0.00	0.00

Power Limit Reduction = $DG(\text{Power}) - 6\text{dBi}$, (min = 0)

PSD Limit Reduction = $DG(\text{PSD}) - 6\text{dBi}$, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Jan. 21, 2020~ Jan. 22, 2020	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 10	10MHz~6GHz	Dec. 23, 2019	Jan. 21, 2020~ Jan. 22, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Aug. 14, 2019	Jan. 21, 2020~ Jan. 22, 2020	Aug. 13, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Jan. 21, 2020~ Jan. 22, 2020	Mar. 26, 2020	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Feb. 14, 2020~ Feb. 15, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 30, 2019	Feb. 14, 2020~ Feb. 15, 2020	Apr. 29, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Feb. 14, 2020~ Feb. 15, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz~40GHz	Dec. 10, 2019	Feb. 14, 2020~ Feb. 15, 2020	Dec. 09, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 20, 2019	Feb. 14, 2020~ Feb. 15, 2020	May 19, 2020	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 24, 2019	Feb. 14, 2020~ Feb. 15, 2020	Apr. 23, 2020	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Feb. 14, 2020~ Feb. 15, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Feb. 14, 2020~ Feb. 15, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Jan. 18, 2020	Feb. 14, 2020~ Feb. 15, 2020	Jan. 17, 2021	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Feb. 14, 2020~ Feb. 15, 2020	Feb. 09, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 26, 2019	Feb. 14, 2020~ Feb. 15, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 26, 2019	Feb. 14, 2020~ Feb. 15, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 26, 2019	Feb. 14, 2020~ Feb. 15, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Feb. 14, 2020~ Feb. 15, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Feb. 14, 2020~ Feb. 15, 2020	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Feb. 14, 2020~ Feb. 15, 2020	N/A	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 26, 2019	Feb. 14, 2020~ Feb. 15, 2020	Feb. 25, 2020	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kathy Chen	Temperature:	21~25	°C
Test Date:	2020/1/21~2020/1/22	Relative Humidity:	51~54	%

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
					Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
11a	6Mbps	1	149	5745	15.80	15.80		30.00	30.00	1.10	1.03	Pass
11a	6Mbps	1	157	5785	15.90	15.90		30.00	30.00	1.10	1.03	Pass
11a	6Mbps	1	165	5825	15.80	15.90		30.00	30.00	1.10	1.03	Pass
HT20	MCS0	1	149	5745	15.90	15.90		30.00	30.00	1.10	1.03	Pass
HT20	MCS0	1	157	5785	15.80	15.90		30.00	30.00	1.10	1.03	Pass
HT20	MCS0	1	165	5825	15.90	15.90		30.00	30.00	1.10	1.03	Pass
HT40	MCS0	1	151	5755	15.90	15.90		30.00	30.00	1.10	1.03	Pass
HT40	MCS0	1	159	5795	15.90	15.90		30.00	30.00	1.10	1.03	Pass
VHT20	MCS0	1	149	5745	15.80	15.80		30.00	30.00	1.10	1.03	Pass
VHT20	MCS0	1	157	5785	15.70	15.80		30.00	30.00	1.10	1.03	Pass
VHT20	MCS0	1	165	5825	15.80	15.80		30.00	30.00	1.10	1.03	Pass
VHT40	MCS0	1	151	5755	15.80	15.80		30.00	30.00	1.10	1.03	Pass
VHT40	MCS0	1	159	5795	15.80	15.80		30.00	30.00	1.10	1.03	Pass
VHT80	MCS0	1	155	5775	15.80	15.90		30.00	30.00	1.10	1.03	Pass

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
HT20	MCS0	2	149	5745	12.90	12.80	15.86	30.00		1.10		Pass
HT20	MCS0	2	157	5785	12.90	12.90	15.91	30.00		1.10		Pass
HT20	MCS0	2	165	5825	12.90	12.90	15.91	30.00		1.10		Pass
HT40	MCS0	2	151	5755	12.90	12.50	15.71	30.00		1.10		Pass
HT40	MCS0	2	159	5795	12.90	12.70	15.81	30.00		1.10		Pass
VHT20	MCS0	2	149	5745	12.80	12.70	15.76	30.00		1.10		Pass
VHT20	MCS0	2	157	5785	12.80	12.90	15.86	30.00		1.10		Pass
VHT20	MCS0	2	165	5825	12.80	12.70	15.76	30.00		1.10		Pass
VHT40	MCS0	2	151	5755	12.80	12.50	15.66	30.00		1.10		Pass
VHT40	MCS0	2	159	5795	12.80	12.60	15.71	30.00		1.10		Pass
VHT80	MCS0	2	155	5775	12.90	12.70	15.81	30.00		1.10		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
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
HE20	MCS0	1	149	5745	Full	15.90	15.90		30.00	30.00	1.10	1.03	Pass
HE20	MCS0	1	157	5785	Full	15.70	15.90		30.00	30.00	1.10	1.03	Pass
HE20	MCS0	1	165	5825	Full	15.90	15.80		30.00	30.00	1.10	1.03	Pass
HE40	MCS0	1	151	5755	Full	15.80	15.80		30.00	30.00	1.10	1.03	Pass
HE40	MCS0	1	159	5795	Full	15.90	15.80		30.00	30.00	1.10	1.03	Pass
HE80	MCS0	1	155	5775	Full	15.80	15.90		30.00	30.00	1.10	1.03	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
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
HE20	MCS0	1	149	5745	Full	12.90	12.80	15.86	30.00		1.10		Pass
HE20	MCS0	1	157	5785	Full	12.90	12.90	15.91	30.00		1.10		Pass
HE20	MCS0	1	165	5825	Full	12.90	12.70	15.81	30.00		1.10		Pass
HE40	MCS0	1	151	5755	Full	12.90	12.40	15.67	30.00		1.10		Pass
HE40	MCS0	1	159	5795	Full	12.90	12.70	15.81	30.00		1.10		Pass
HE80	MCS0	1	155	5775	Full	12.90	12.70	15.81	30.00		1.10		Pass



Appendix B. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	21~23°C
		Relative Humidity :	55~57%

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Chain A	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 CH 151 5755MHz		5647.4	48.66	-19.54	68.2	37.44	34.8	11.73	35.31	101	250	P	H
		5699.8	55.98	-49.07	105.05	44.52	35	11.78	35.32	101	250	P	H
		5715.4	59.17	-50.34	109.51	47.66	35	11.83	35.32	101	250	P	H
		5723.2	60.52	-57.58	118.1	49.01	35	11.83	35.32	101	250	P	H
	*	5755	102.8	-	-	91.25	35	11.88	35.33	101	250	P	H
	*	5755	92.67	-	-	81.12	35	11.88	35.33	101	250	A	H
		5850.4	47.44	-73.85	121.29	35.8	35	11.98	35.34	101	250	P	H
		5871.6	51.14	-55.01	106.15	39.33	35.13	12.02	35.34	101	250	P	H
		5900.8	49.48	-36.59	86.07	37.55	35.2	12.07	35.34	101	250	P	H
		5927.4	49.66	-18.54	68.2	37.73	35.2	12.07	35.34	101	250	P	H
													H
													H
		5633.6	48.85	-19.35	68.2	37.63	34.8	11.73	35.31	100	242	P	V
		5699.2	56.24	-48.37	104.61	44.78	35	11.78	35.32	100	242	P	V
		5718.8	63.74	-46.72	110.46	52.23	35	11.83	35.32	100	242	P	V
		5724	64.27	-55.65	119.92	52.76	35	11.83	35.32	100	242	P	V
	*	5755	105.2	-	-	93.65	35	11.88	35.33	100	242	P	V
	*	5755	95.81	-	-	84.26	35	11.88	35.33	100	242	A	V
		5854.6	49.13	-62.58	111.71	37.42	35.07	11.98	35.34	100	242	P	V
		5868.8	49.26	-57.67	106.93	37.51	35.07	12.02	35.34	100	242	P	V
		5880.6	49.89	-51.15	101.04	38.08	35.13	12.02	35.34	100	242	P	V
		5944.2	50.06	-18.14	68.2	38.09	35.2	12.11	35.34	100	242	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 (Harmonic @ 3m)**

WIFI Chain A	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 CH 151 5755MHz		11510	45.14	-28.86	74	45.97	38.2	18.4	57.43	100	0	P	H
		17265	48.69	-19.51	68.2	40.5	41.47	22.72	56	100	0	P	H
													H
													H
		11510	45.74	-28.26	74	46.57	38.2	18.4	57.43	100	0	P	V
		17265	48.9	-19.3	68.2	40.71	41.47	22.72	56	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 (Band Edge @ 3m)

WIFI Chain B	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preampl Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 CH 151 5755MHz		5633.4	48.11	-20.09	68.2	36.89	34.8	11.73	35.31	148	23	P	H
		5690.8	48.61	-49.81	98.42	37.15	35	11.78	35.32	148	23	P	H
		5719.8	48.34	-62.4	110.74	36.83	35	11.83	35.32	148	23	P	H
		5723.8	49.58	-69.88	119.46	38.07	35	11.83	35.32	148	23	P	H
	*	5755	100	-	-	88.45	35	11.88	35.33	148	23	P	H
	*	5755	91.15	-	-	79.6	35	11.88	35.33	148	23	A	H
		5852	48.51	-69.13	117.64	36.87	35	11.98	35.34	148	23	P	H
		5873.2	49.04	-56.66	105.7	37.23	35.13	12.02	35.34	148	23	P	H
		5906.4	49.34	-32.59	81.93	37.41	35.2	12.07	35.34	148	23	P	H
		5940.6	49.2	-19	68.2	37.23	35.2	12.11	35.34	148	23	P	H
													H
													H
		5600	48.29	-19.91	68.2	36.92	35	11.68	35.31	383	353	P	V
		5685	48.48	-45.65	94.13	37.02	35	11.78	35.32	383	353	P	V
		5719.6	47.86	-62.83	110.69	36.35	35	11.83	35.32	383	353	P	V
		5721.2	49.45	-64.09	113.54	37.94	35	11.83	35.32	383	353	P	V
	*	5755	101.75	-	-	90.2	35	11.88	35.33	383	353	P	V
	*	5755	91.95	-	-	80.4	35	11.88	35.33	383	353	A	V
		5853.6	49.23	-64.76	113.99	37.52	35.07	11.98	35.34	383	353	P	V
		5857.2	48.54	-61.64	110.18	36.83	35.07	11.98	35.34	383	353	P	V
		5908.8	49.46	-30.69	80.15	37.53	35.2	12.07	35.34	383	353	P	V
		5942.4	50.29	-17.91	68.2	38.32	35.2	12.11	35.34	383	353	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 (Harmonic @ 3m)**

WIFI Chain B	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 CH 151 5755MHz		11510	45.83	-28.17	74	46.66	38.2	18.4	57.43	100	0	P	H
		17265	48.71	-19.49	68.2	40.52	41.47	22.72	56	100	0	P	H
													H
													H
		11510	46.68	-27.32	74	47.51	38.2	18.4	57.43	100	0	P	V
		17265	49.52	-18.68	68.2	41.33	41.47	22.72	56	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 (Band Edge @ 3m)

WIFI Chain A+B	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 CH 155 5775MHz		5648.4	49.68	-18.52	68.2	38.46	34.8	11.73	35.31	100	347	P	H
		5688.4	56.19	-40.45	96.64	44.73	35	11.78	35.32	100	347	P	H
		5717.8	59.58	-50.6	110.18	48.07	35	11.83	35.32	100	347	P	H
		5724.8	59.41	-62.33	121.74	47.9	35	11.83	35.32	100	347	P	H
	*	5775	95.95	-	-	84.4	35	11.88	35.33	100	347	P	H
	*	5775	87.05	-	-	75.5	35	11.88	35.33	100	347	A	H
		5851	50.84	-69.08	119.92	39.2	35	11.98	35.34	100	347	P	H
		5857.8	51.5	-58.51	110.01	39.79	35.07	11.98	35.34	100	347	P	H
		5907	51.78	-29.7	81.48	39.85	35.2	12.07	35.34	100	347	P	H
		5948.2	50.47	-17.73	68.2	38.5	35.2	12.11	35.34	100	347	P	H
													H
													H
		5644.4	50.01	-18.19	68.2	38.79	34.8	11.73	35.31	100	241	P	V
		5688.8	57.02	-39.92	96.94	45.56	35	11.78	35.32	100	241	P	V
		5711.2	59.21	-49.13	108.34	47.7	35	11.83	35.32	100	241	P	V
		5724.4	58.83	-62	120.83	47.32	35	11.83	35.32	100	241	P	V
	*	5775	97.82	-	-	86.27	35	11.88	35.33	100	241	P	V
	*	5775	89.08	-	-	77.53	35	11.88	35.33	100	241	A	V
		5850.6	52.68	-68.15	120.83	41.04	35	11.98	35.34	100	241	P	V
		5855	51.13	-59.67	110.8	39.42	35.07	11.98	35.34	100	241	P	V
		5907.8	52.07	-28.82	80.89	40.14	35.2	12.07	35.34	100	241	P	V
		5946.2	50.2	-18	68.2	38.23	35.2	12.11	35.34	100	241	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 (Harmonic @ 3m)**

WIFI Chain A+B	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 CH 155 5775MHz		11550	45.64	-28.36	74	46.31	38.3	18.41	57.38	100	0	P	H
		17325	49.75	-18.45	68.2	41.52	41.43	22.76	55.96	100	0	P	H
													H
													H
		11550	44.49	-29.51	74	45.16	38.3	18.41	57.38	100	0	P	V
		17325	49.79	-18.41	68.2	41.56	41.43	22.76	55.96	100	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
5GHz WIFI 802.11ax HE80 (LF)

WIFI Chain A+B	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)
5GHz 802.11ax HE80 LF		30	31.89	-8.11	40	36.07	24.6	1.2	29.98	100	0	P	H
		46.74	25.25	-14.75	40	38.15	15.89	1.2	29.99	-	-	P	H
		251.94	28.87	-17.13	46	37.53	18.61	2.53	29.8	-	-	P	H
		720	30.56	-15.44	46	29.07	26.74	4.28	29.53	-	-	P	H
		816.6	33.01	-12.99	46	29.87	27.81	4.55	29.22	-	-	P	H
		930.7	34.64	-11.36	46	28.83	29.53	4.99	28.71	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	32.36	-7.64	40	36.54	24.6	1.2	29.98	100	0	P	V
		72.12	23.06	-16.94	40	38.97	12.5	1.58	29.99	-	-	P	V
		250.32	25.82	-20.18	46	34.71	18.38	2.53	29.8	-	-	P	V
		864.2	31.84	-14.16	46	27.01	29	4.88	29.05	-	-	P	V
		916	32.67	-13.33	46	27.43	29.06	4.99	28.81	-	-	P	V
		955.2	33.94	-12.06	46	26.77	30.64	5.06	28.53	-	-	P	V
													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	Peak or Average
H/V	Horizontal or Vertical

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.
Chain				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
A		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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”.



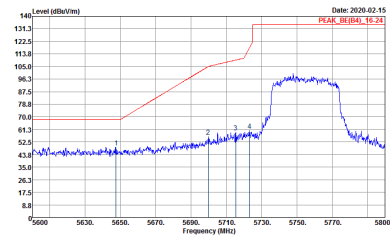
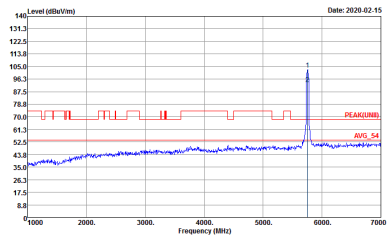
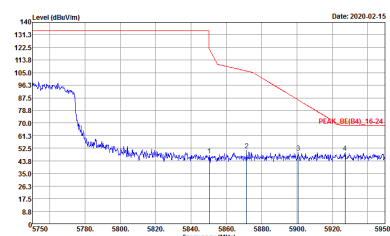
Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	21~23°C
		Relative Humidity :	55~57%

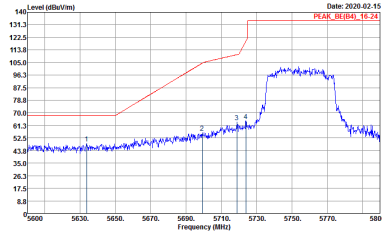
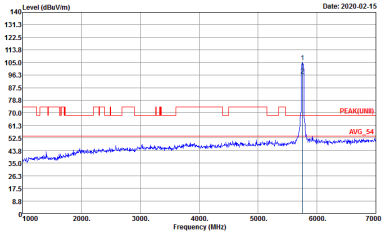
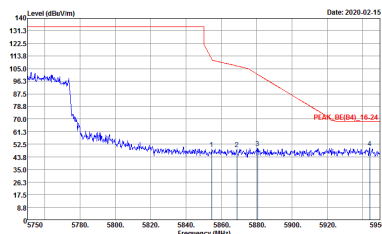
Note symbol

-L	Low channel location
-R	High channel location

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

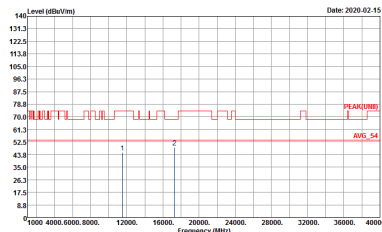
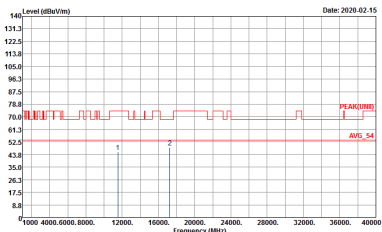
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
Chain	802.11ax HE40 CH151 5755MHz	
A	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 6D2154-33 Mode : 2	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 6D2154-33 Mode : 2
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 6D2154-33 Mode : 2	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
Chain	802.11ax HE40 CH151 5755MHz	
A	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 6D2154-33 : 2	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 6D2154-33 : 2
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 6D2154-33 : 2	Left blank

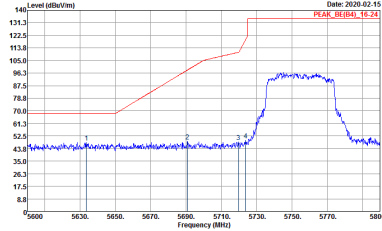
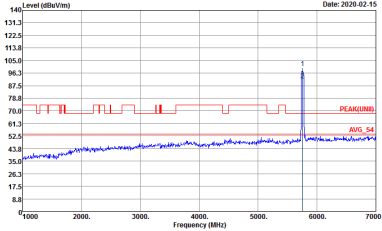
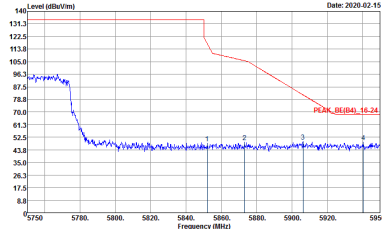


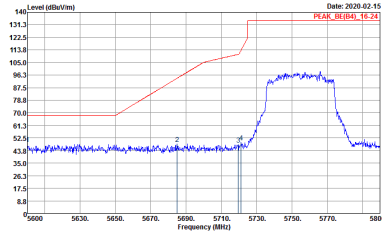
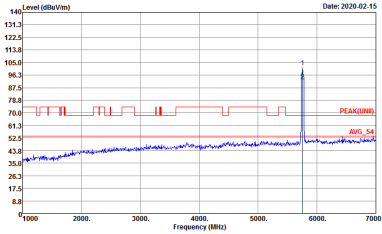
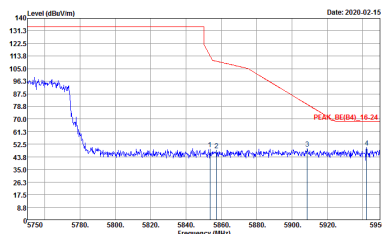
Band 4 - 5725~5850MHz
WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
Chain	802.11ax HE40 CH151 5755MHz	
A	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z HORIZONTAL Detector : Peak Project : 602154-33 Mode : 2	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 602154-33 Mode : 2



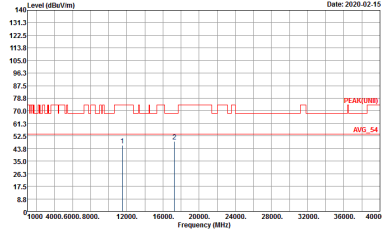
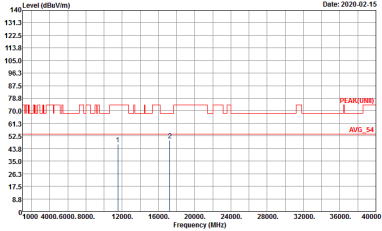
Band 4 - 5725~5850MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
Chain	802.11ax HE40 CH151 5755MHz	
B	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 6D2154-33 Date: 2020-02-15 PEAK_BE(B4)_16-24	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 6D2154-33 Date: 2020-02-15 PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 6D2154-33 Date: 2020-02-15 PEAK_BE(B4)_16-24	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
Chain	802.11ax HE40 CH151 5755MHz	
B	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 6D2154-33 : 4	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 6D2154-33 : 4
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 6D2154-33 : 4	Left blank

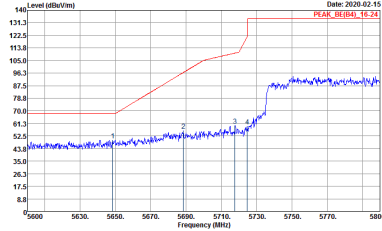
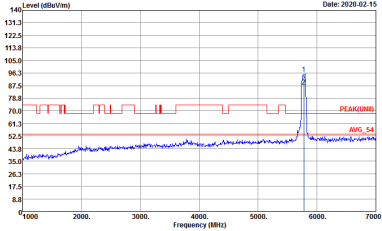
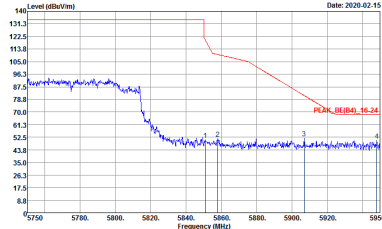


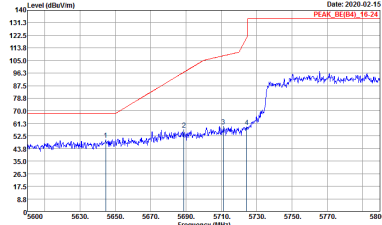
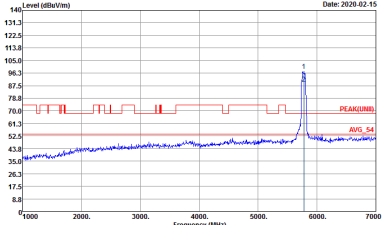
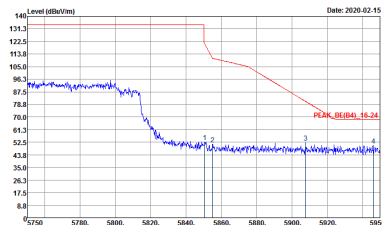
Band 4 - 5725~5850MHz
WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
Chain	802.11ax HE40 CH151 5755MHz	
B	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z HORIZONTAL Detector : Peak Project : 6D2154-33 Mode : 4	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 6D2154-33 Mode : 4



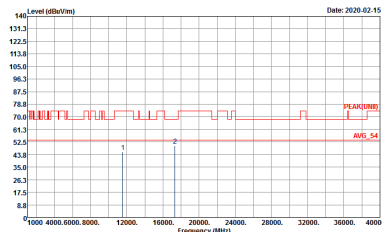
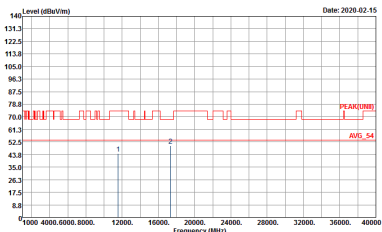
Band 4 - 5725~5850MHz
WIFI 802.11ax HE80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
Chain	802.11ax HE80 CH155 5775MHz	
A+B	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 6D2154-33 Mode : 6	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 6D2154-33 Mode : 6
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 6D2154-33 Mode : 6	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
Chain	802.11ax HE80 CH155 5775MHz	
A+B	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 6D2154-33 Mode : 6	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 6D2154-33 Mode : 6
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 6D2154-33 Mode : 6	Left blank

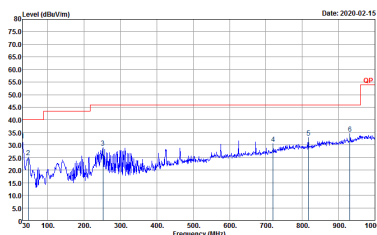
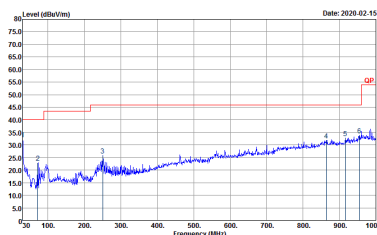


Band 4 - 5725~5850MHz
WIFI 802.11ax HE80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
Chain	802.11ax HE80 CH155 5775MHz	
A+B	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z HORIZONTAL Detector : Peak Project : 602154-33 Mode : 6	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 602154-33 Mode : 6



Emission below 1GHz
5GHz WIFI 802.11ax HE80 (LF)

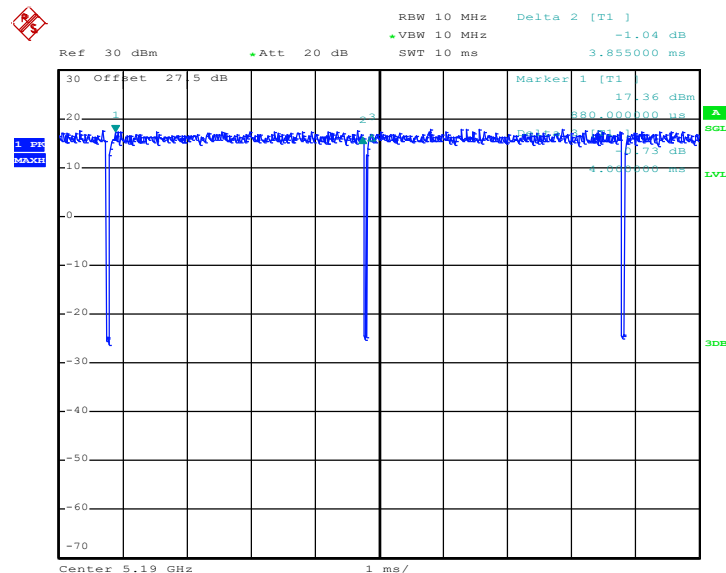
WIFI	5GHz WIFI	
Chain	802.11ax HE80 LF	
A+B	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 602154-33 Mode : 8	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 602154-33 Mode : 8

Appendix D. Duty Cycle Plots

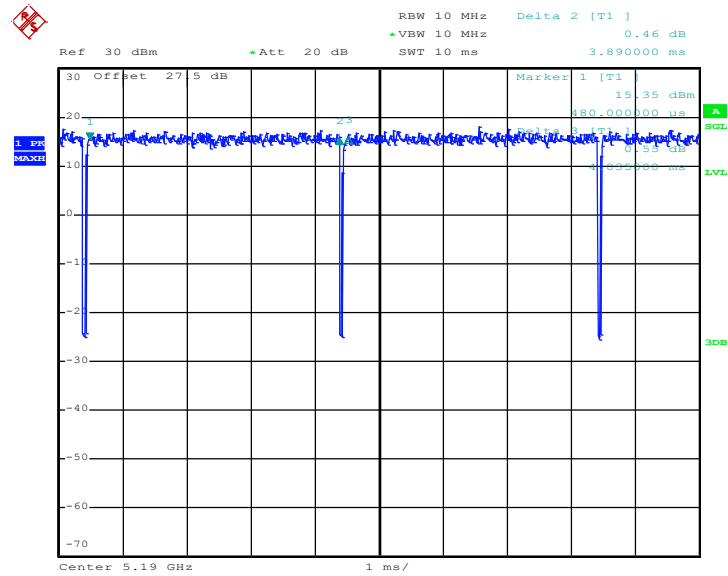
Chain	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
A	5GHz 802.11ax HE40	96.37	3855	0.26	300Hz	0.16
B	5GHz 802.11ax HE40	96.41	3890	0.26	300Hz	0.16
A+B	5GHz 802.11ax HE80 for Chain A	96.78	3905	0.26	300Hz	0.14
A+B	5GHz 802.11ax HE80 for Chain B	97.40	3935	0.25	300Hz	0.11

<Chain A>

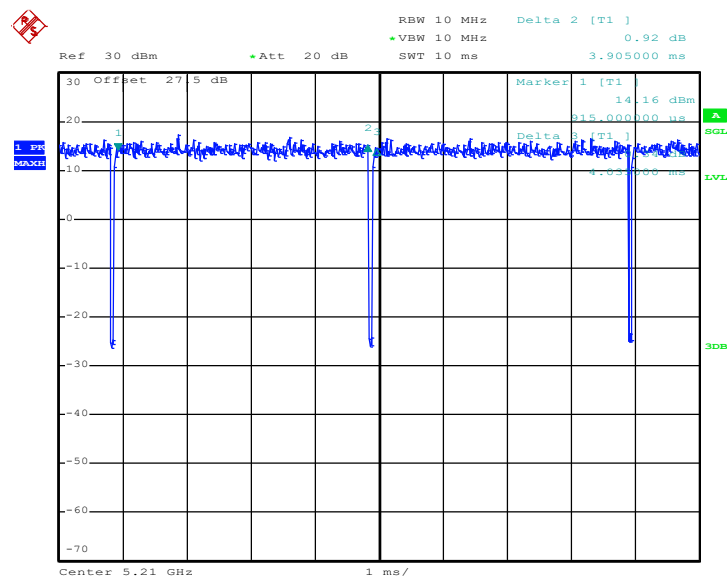
802.11ax HE40



Date: 21.JAN.2020 15:06:18

<Chain B>
802.11ax HE40


Date: 21.JAN.2020 15:07:31

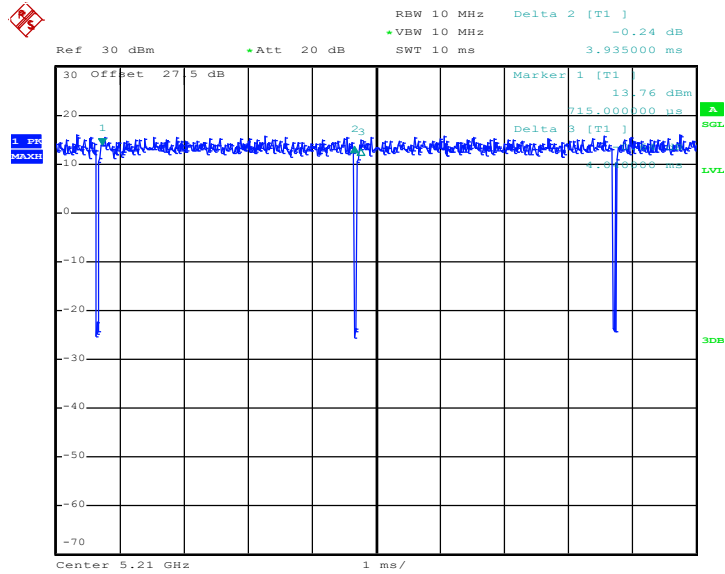
MIMO <Chain A>
802.11ax HE80


Date: 21.JAN.2020 15:13:39



MIMO <Chain B>

802.11ax HE80



Date: 21.JAN.2020 15:14:36