



FCC RADIO TEST REPORT

FCC ID : QYLAX211NG
Equipment : Wireless Module
Brand Name : Getac
Model Name : AX211NGW
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist.,
Taipei City 115018, Taiwan, R.O.C.
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 11, 2025 and testing was performed from Feb. 17, 2025 to Mar. 09, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sportun International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.247(a)(2)	6dB Bandwidth	Pass	See Note
-	2.1049	99% Occupied Bandwidth	Pass	See Note
3.1	15.247(b)	Power Output Measurement	Pass	-
-	15.247(e)	Power Spectral Density	Pass	See Note
-	15.247(d)	Conducted Band Edges	Pass	See Note
		Conducted Spurious Emission	Pass	See Note
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.3	15.207	AC Conducted Emission	Pass	-
3.4	15.203	Antenna Requirement	Pass	-

Note:

1. For host device, Radiated Spurious Emission is verified and comply with the limit in this test report.
2. For host device, the Conducted Output Power is no difference after compared to module (Model: AX211NGW).

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang**Report Producer: Mila Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11ax, and GNSS.
Antenna Type	WLAN: <Main>: PIFA Antenna <Aux.>: PIFA Antenna

Antenna Information for Host			
Antenna	Manufacturer	GTK	
	Antenna Type	PIFA Antenna	PIFA Antenna
	Part number	340140100002	340140100003
	Peak gain (dBi)	Main Antenna: WLAN 2.4G: 3.16	Aux. Antenna: WLAN 2.4G: 1.97

The product was installed into Tablet PC (Brand Name: Getac, Model Name: A140, A140G2,

A140Y (Y= 10 characters, Y can be 0-9, a-z, A-Z, "-", "_" or blank for marketing purpose and no impact safety related critical components and constructions.) during test, and the host information was recorded in the following table.

Sample Information for Host	
SKU	SKU 5
WWAN	Support (EM7511)
WLAN	Support (AX211NGW)
RFID	Not Support
GPS	Support (MC1010)
Finger printer	Support
Barcode	Support
AC Adapter 1 (65W)	Not Support
AC Adapter 2 (120W)	Not Support
AC Adapter 3 (65W)	Support
AC Adapter 3 (65W)	Support

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



1.1.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

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

where

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

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

N_{ANT} = the total number of antennas

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

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

Directional gain = $10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where $G1, G2, \dots, GN$ denote single antenna gain.

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

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4GHz	3.16	1.97	3.16	5.60	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1}= 3.16$ dBi; $G_{ANT2}=1.97$ dBi

Directional gain of power measurement = $\max(3.16, 1.97) + 0 = 3.16$ dBi

Directional gain of PSD derived from formula which is

$$10 \cdot \log \{ [10^{(3.16 \text{ dBi} / 20)} + 10^{(1.97 \text{ dBi} / 20)}]^2 / 2 \} = 5.60 \text{ dBi}$$

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



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, CO07-HY, 03CH12-HY

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

FCC designation No.: TW3786

1.4 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

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

Single Antenna

Modulation	Data Rate
802.11ax HE20	MCS0

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0

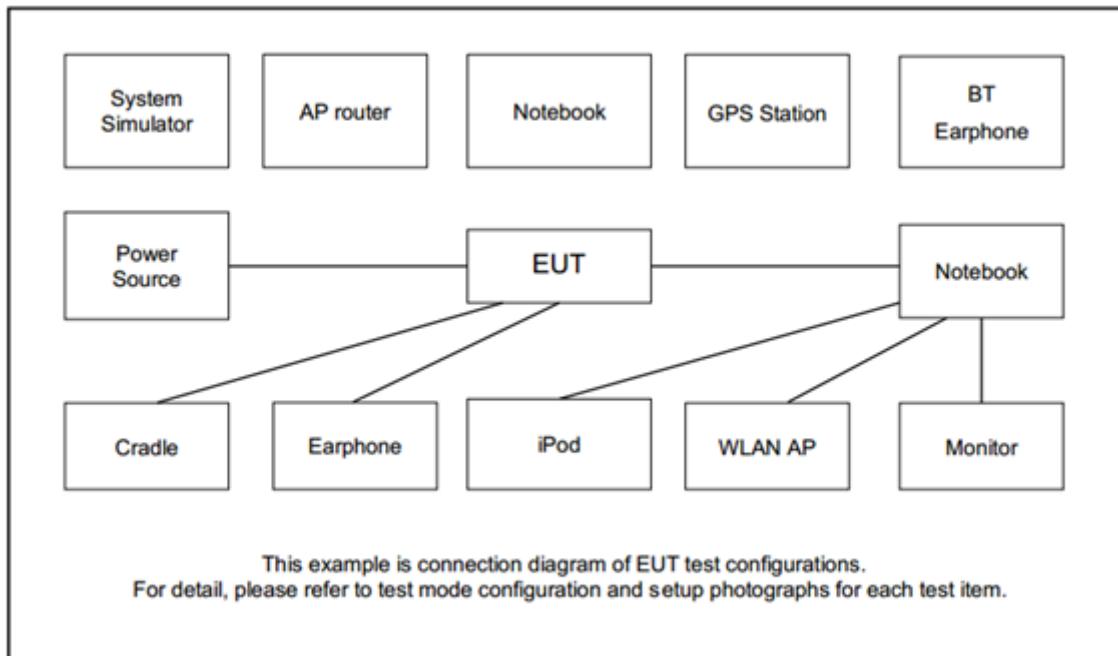
Test Cases

AC Conducted Emission	Mode 1 :Bluetooth Link + WLAN (2.4GHz) Link + H-pattern + Earphone + Battery + AC Adapter 3
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Remark:

1. For Radiated Test Cases, the tests were performed with Adapter 3.
2. The detailed Radiated test modes are shown in Appendix C.
3. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System





2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	Netgear	RAXE500	PY320300508	N/A	Unshielded, 1.8m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Earphone + Mic	Samsung	Ecouteur	N/A	Unshielded 1.8m	N/A
5.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QCRT 0.7332.23.90.0” was installed in Host 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 Output Power Measurement

3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

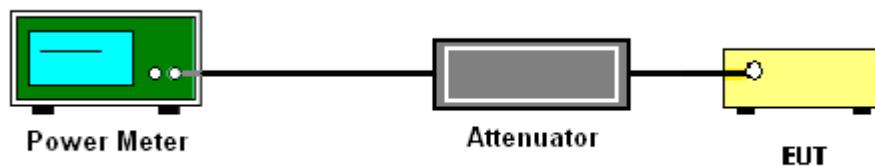
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.
6. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.1.4 Test Setup



3.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.1.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.



3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.

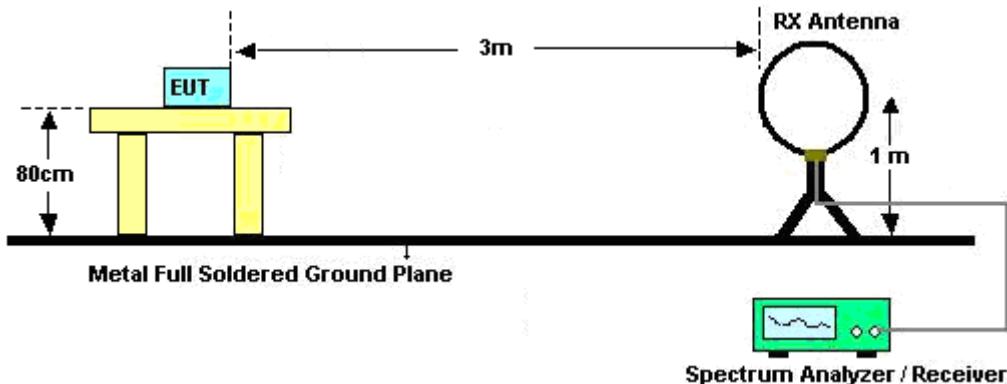
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “_”.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

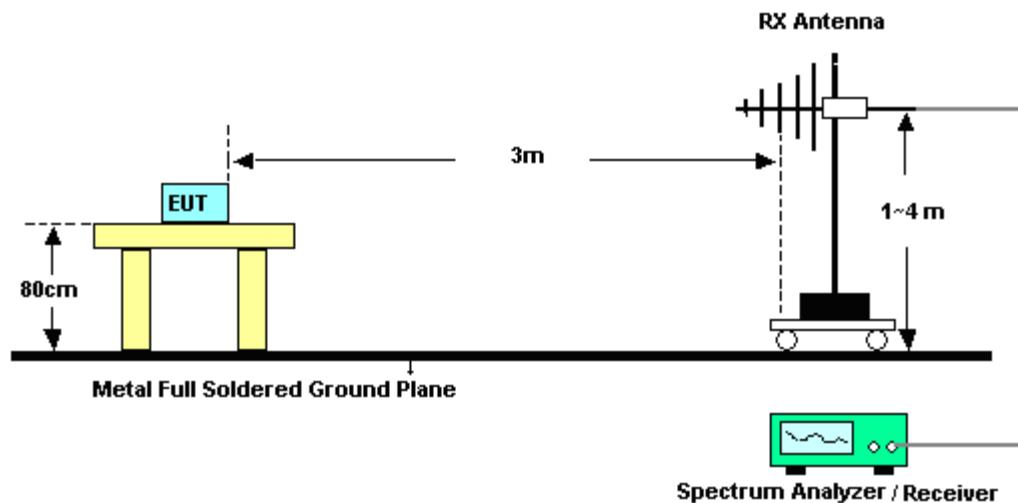
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

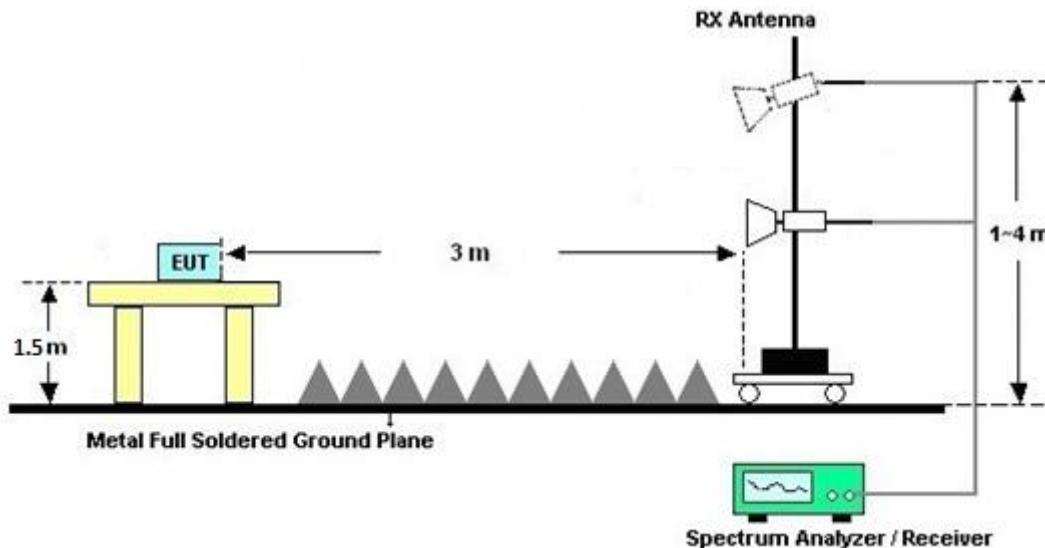
For radiated emissions below 30MHz



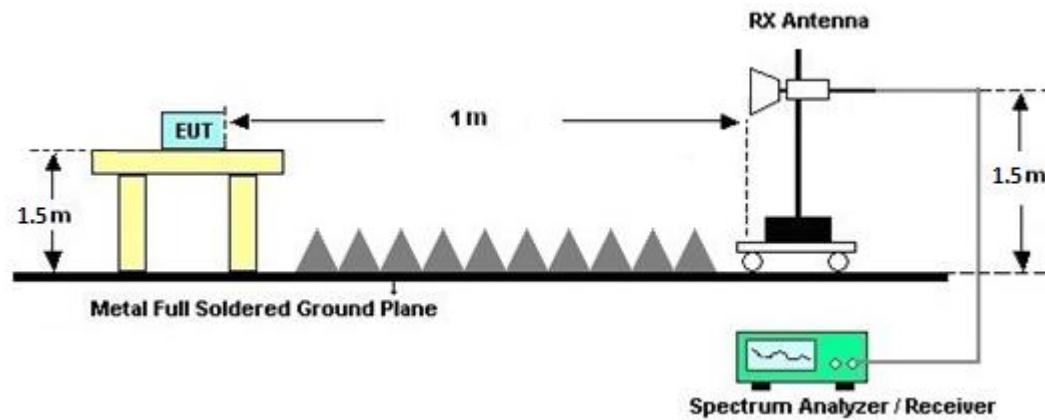
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.2.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.



3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

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

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

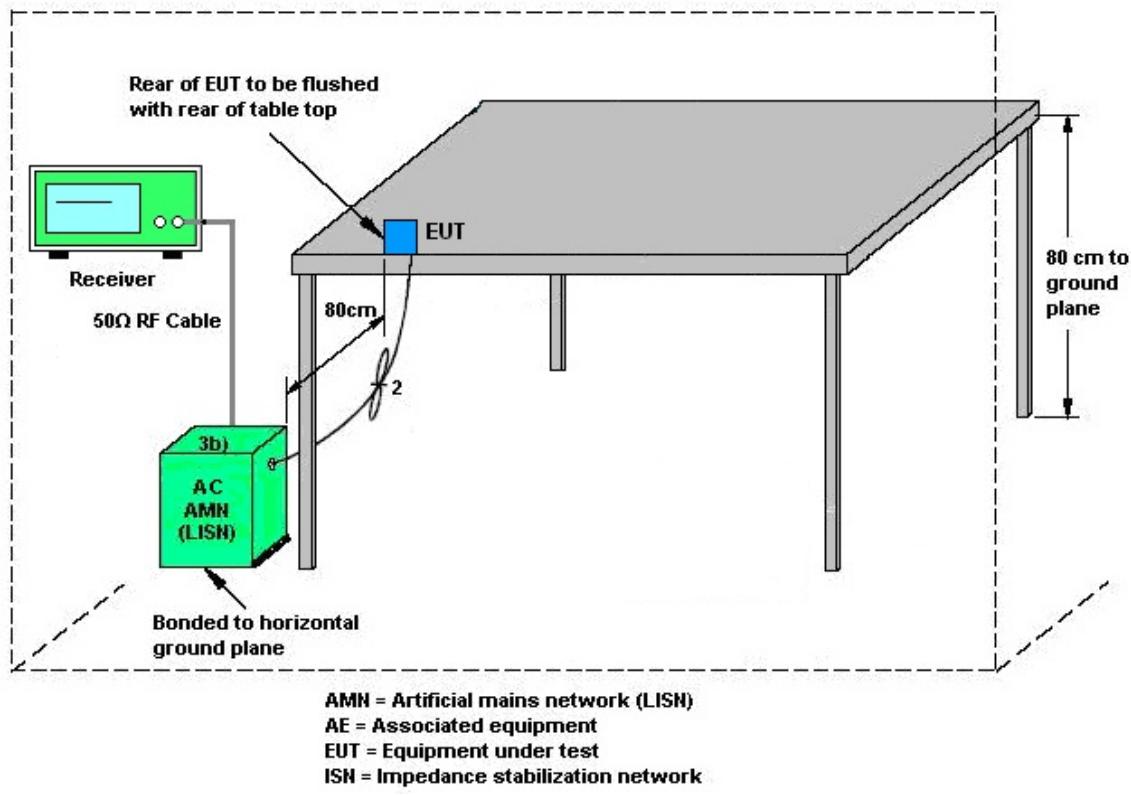
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.4 Antenna Requirements

3.4.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.4.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Feb. 17, 2025~Feb. 18, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	Feb. 17, 2025~Feb. 18, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Aug. 14, 2024	Feb. 17, 2025~Feb. 18, 2025	Aug. 13, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Feb. 17, 2025~Feb. 18, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_250114	N/A	Conducted Other Test Item	N/A	Feb. 17, 2025~Feb. 18, 2025	N/A	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	Mar. 07, 2025~Mar. 09, 2025	Aug. 28, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Mar. 07, 2025~Mar. 09, 2025	Nov. 26, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 11, 2024	Mar. 07, 2025~Mar. 09, 2025	Jul. 10, 2025	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz-40GHz	Nov. 18, 2024	Mar. 07, 2025~Mar. 09, 2025	Nov. 17, 2025	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 20, 2024	Mar. 07, 2025~Mar. 09, 2025	Mar. 19, 2025	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	Feb. 07, 2025	Mar. 07, 2025~Mar. 09, 2025	Feb. 06, 2026	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900269	1GHz-18GHz	Dec. 19, 2024	Mar. 07, 2025~Mar. 09, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Mar. 07, 2025~Mar. 09, 2025	Dec. 01, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Aug. 09, 2024	Mar. 07, 2025~Mar. 09, 2025	Aug. 08, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 09, 2024	Mar. 07, 2025~Mar. 09, 2025	Sep. 08, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Mar. 13, 2024	Mar. 07, 2025~Mar. 09, 2025	Mar. 12, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 13, 2024	Mar. 07, 2025~Mar. 09, 2025	Mar. 12, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX6-7268-9200-26500-40CD	SN1	9GHz High Pass Filter	May 21, 2024	Mar. 07, 2025~Mar. 09, 2025	May 20, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 13, 2024	Mar. 07, 2025~Mar. 09, 2025	Mar. 12, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Mar. 07, 2025~Mar. 09, 2025	Mar. 04, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 19, 2024	Mar. 07, 2025~Mar. 09, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Nov. 01, 2024	Mar. 07, 2025~Mar. 09, 2025	Oct. 31, 2025	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM-KM-100	240907	30MHz~40GHz	Nov. 14, 2024	Mar. 07, 2025~Mar. 09, 2025	Nov. 13, 2025	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 29, 2024	Mar. 07, 2025~Mar. 09, 2025	Aug. 28, 2025	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 07, 2025~Mar. 09, 2025	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 07, 2025~Mar. 09, 2025	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 07, 2025~Mar. 09, 2025	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Mar. 07, 2025~Mar. 09, 2025	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 05, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 05, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Mar. 05, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Mar. 05, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Mar. 05, 2025	Mar. 09, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 05, 2025	Sep. 22, 2025	Conduction (CO07-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	3.7 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	6.3 dB
---	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	4.7 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.0 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.1 dB
---	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Beck Chen	Temperature:	21~25	°C
Test Date:	2025/02/17-2025/02/18	Relative Humidity:	51~54	%
Remark: For Conducted Test Items, Ant. 1 means Chain A (Aux.) and Ant. 2 means Chain B (Main).				

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HT20	MCS0	2	6	2437	21.70	21.47	24.60	30.00	3.16	27.76	3.16	27.76	36.00	36.00	Pass	
HT40	MCS0	2	9	2452	16.21	16.15	19.19	30.00	3.16	22.35	3.16	22.35	36.00	36.00	Pass	

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HT20	MCS0	2	6	2437	24.33	24.00	27.18	30.00		3.16		30.34		36.00	Pass	
HT40	MCS0	2	9	2452	21.95	21.82	24.90	30.00		3.16		28.06		36.00	Pass	

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	19.76	19.55		30.00	30.00	1.97	3.16	21.73	22.71	36.00	36.00	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	23.68	23.58	-	30.00	30.00	1.97	3.16	25.65	26.74	36.00	36.00	Pass



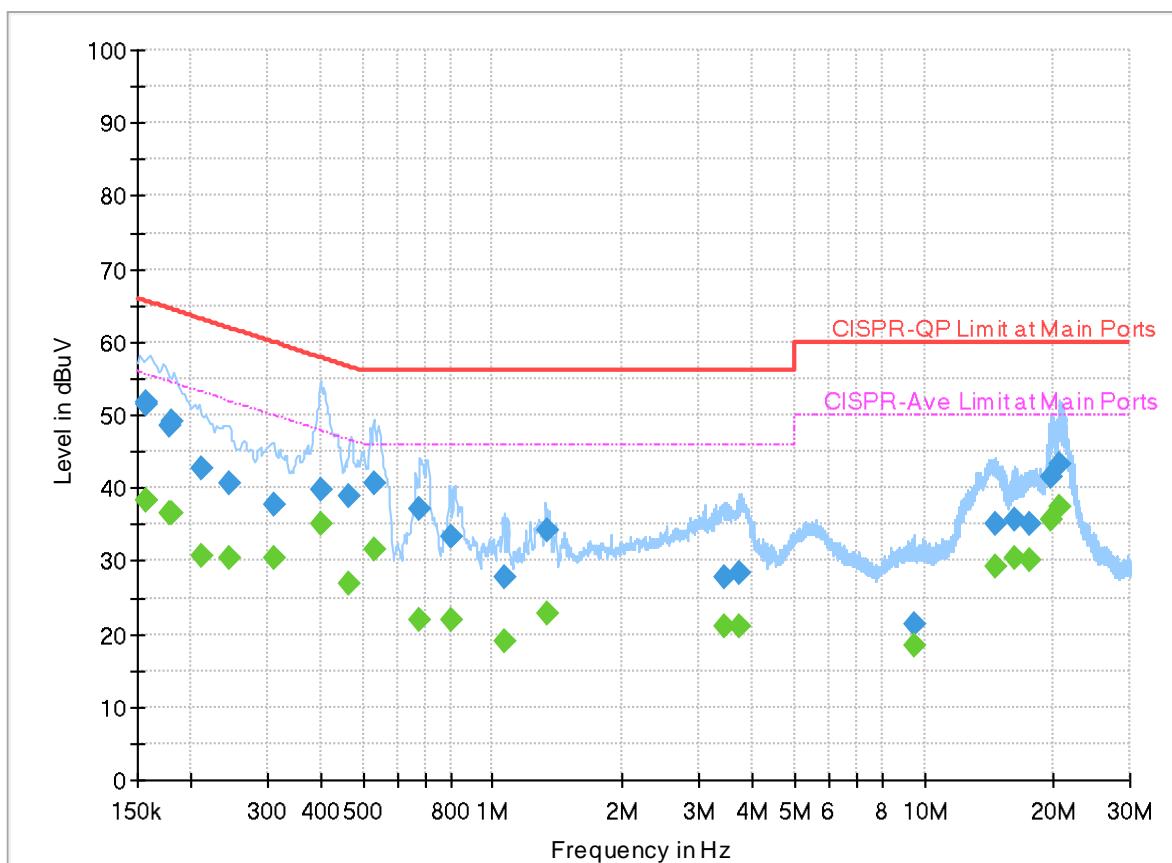
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	20.1~23.3°C
		Relative Humidity :	47.3~61.2%

EUT Information

Report NO : 521111
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final Result

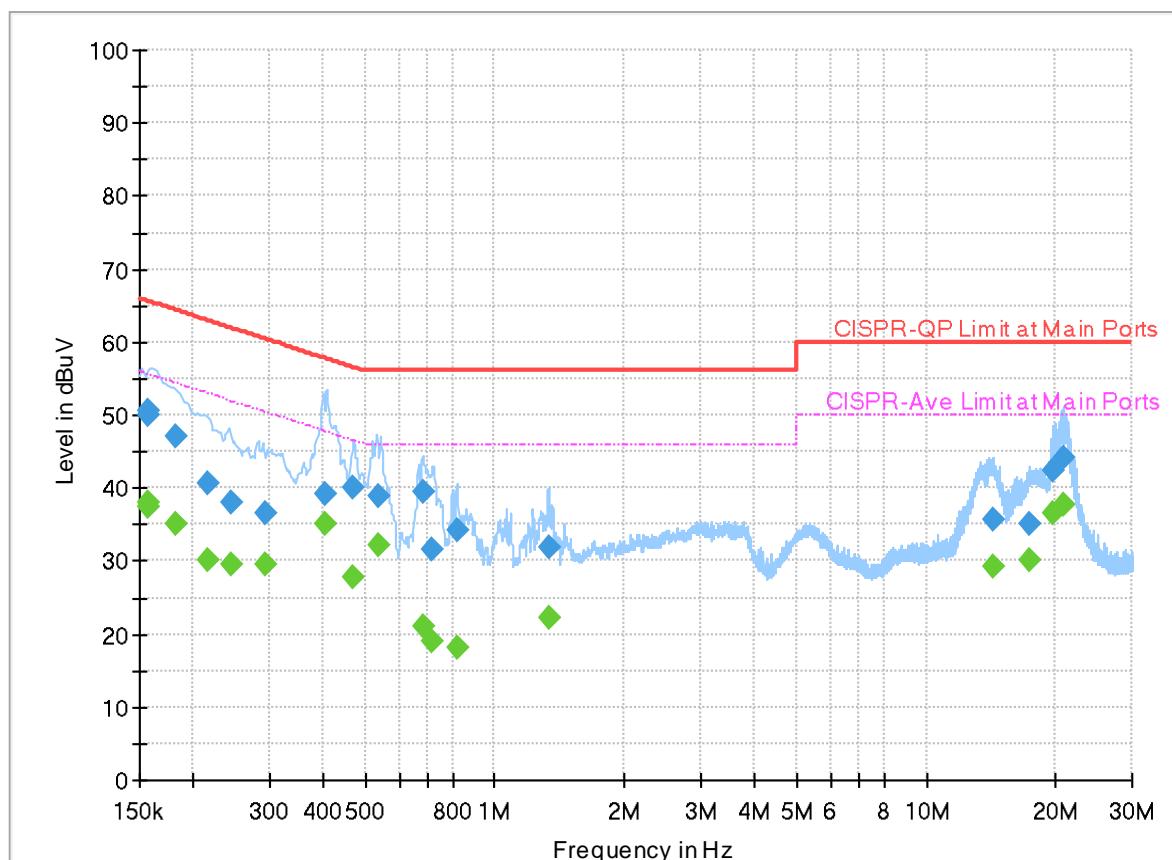
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156548	---	38.22	55.65	17.43	L1	FLO	20.0
0.156548	51.54	---	65.65	14.11	L1	FLO	20.0
0.156750	---	38.37	55.63	17.26	L1	FLO	20.0
0.156750	51.87	---	65.63	13.76	L1	FLO	20.0
0.177000	---	36.64	54.63	17.99	L1	FLO	20.0
0.177000	48.62	---	64.63	16.01	L1	FLO	20.0
0.179250	---	36.43	54.52	18.09	L1	FLO	20.0
0.179250	48.99	---	64.52	15.53	L1	FLO	20.0
0.210750	---	30.76	53.18	22.42	L1	FLO	20.0
0.210750	42.78	---	63.18	20.40	L1	FLO	20.0
0.243600	---	30.40	51.97	21.57	L1	FLO	20.0
0.243600	40.75	---	61.97	21.22	L1	FLO	20.0
0.312000	---	30.47	49.92	19.45	L1	FLO	20.0
0.312000	37.66	---	59.92	22.26	L1	FLO	20.0
0.401280	---	35.05	47.83	12.78	L1	FLO	20.0
0.401280	39.70	---	57.83	18.13	L1	FLO	20.0
0.465630	---	27.03	46.59	19.56	L1	FLO	20.0
0.465630	38.85	---	56.59	17.74	L1	FLO	20.0
0.534030	---	31.65	46.00	14.35	L1	FLO	20.0

0.534030	40.72	---	56.00	15.28	L1	FLO	20.0
0.675510	---	22.03	46.00	23.97	L1	FLO	20.0
0.675510	37.28	---	56.00	18.72	L1	FLO	20.0
0.800160	---	21.84	46.00	24.16	L1	FLO	20.0
0.800160	33.21	---	56.00	22.79	L1	FLO	20.0
1.065750	---	19.14	46.00	26.86	L1	FLO	20.0
1.065750	27.83	---	56.00	28.17	L1	FLO	20.0
1.331250	---	22.74	46.00	23.26	L1	FLO	20.0
1.331250	34.27	---	56.00	21.73	L1	FLO	20.0
3.459660	---	21.17	46.00	24.83	L1	FLO	20.1
3.459660	27.72	---	56.00	28.28	L1	FLO	20.1
3.735870	---	21.11	46.00	24.89	L1	FLO	20.1
3.735870	28.28	---	56.00	27.72	L1	FLO	20.1
9.464190	---	18.54	50.00	31.46	L1	FLO	20.3
9.464190	21.36	---	60.00	38.64	L1	FLO	20.3
14.575290	---	29.17	50.00	20.83	L1	FLO	20.6
14.575290	35.16	---	60.00	24.84	L1	FLO	20.6
16.146870	---	30.53	50.00	19.47	L1	FLO	20.6
16.146870	35.56	---	60.00	24.44	L1	FLO	20.6
17.652660	---	30.18	50.00	19.82	L1	FLO	20.7
17.652660	35.07	---	60.00	24.93	L1	FLO	20.7
19.698540	---	35.70	50.00	14.30	L1	FLO	20.8
19.698540	41.45	---	60.00	18.55	L1	FLO	20.8
20.632200	---	37.30	50.00	12.70	L1	FLO	20.8
20.632200	43.41	---	60.00	16.59	L1	FLO	20.8

EUT Information

Report NO : 521111
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156750	---	37.89	55.63	17.74	N	FLO	20.0
0.156750	50.65	---	65.63	14.98	N	FLO	20.0
0.157200	---	37.38	55.61	18.23	N	FLO	20.0
0.157200	50.03	---	65.61	15.58	N	FLO	20.0
0.182940	---	35.09	54.35	19.26	N	FLO	20.0
0.182940	46.95	---	64.35	17.40	N	FLO	20.0
0.215250	---	30.14	53.00	22.86	N	FLO	20.0
0.215250	40.78	---	63.00	22.22	N	FLO	20.0
0.244950	---	29.64	51.93	22.29	N	FLO	20.0
0.244950	38.14	---	61.93	23.79	N	FLO	20.0
0.294000	---	29.42	50.41	20.99	N	FLO	20.0
0.294000	36.63	---	60.41	23.78	N	FLO	20.0
0.404250	---	35.07	47.77	12.70	N	FLO	20.0
0.404250	39.27	---	57.77	18.50	N	FLO	20.0
0.469320	---	27.80	46.53	18.73	N	FLO	20.0
0.469320	40.13	---	56.53	16.40	N	FLO	20.0
0.535470	---	32.21	46.00	13.79	N	FLO	20.0
0.535470	38.99	---	56.00	17.01	N	FLO	20.0
0.680370	---	21.11	46.00	24.89	N	FLO	20.0

0.680370	39.61	---	56.00	16.39	N	FLO	20.0
0.717000	---	19.15	46.00	26.85	N	FLO	20.0
0.717000	31.59	---	56.00	24.41	N	FLO	20.0
0.818160	---	18.22	46.00	27.78	N	FLO	20.0
0.818160	34.20	---	56.00	21.80	N	FLO	20.0
1.335750	---	22.29	46.00	23.71	N	FLO	20.0
1.335750	31.89	---	56.00	24.11	N	FLO	20.0
14.264610	---	29.18	50.00	20.82	N	FLO	20.5
14.264610	35.70	---	60.00	24.30	N	FLO	20.5
17.344500	---	30.02	50.00	19.98	N	FLO	20.7
17.344500	35.10	---	60.00	24.90	N	FLO	20.7
19.779000	---	36.49	50.00	13.51	N	FLO	20.8
19.779000	42.35	---	60.00	17.65	N	FLO	20.8
20.825250	---	37.61	50.00	12.39	N	FLO	20.8
20.825250	44.14	---	60.00	15.86	N	FLO	20.8



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng, Tim Lee and Wilson Wu	Temperature(°C):	20~25 °C
		Relative Humidity :	50~60 %

Remark: For Radiated Spurious Emission Test Data, Ant. 1 means Chain A (Aux.) and Ant. 2 means Chain B (Main).

C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	Full RU	-
Mode 2	2400-2483.5	2	802.11ax HE20	01	2412	MCS0	Full RU	-
Mode 3	2400-2483.5	1+2	802.11n HT40	09	2452	MCS0	-	-
Mode 4	2400-2483.5	1+2	802.11n HT40	09	2452	MCS0	-	SHF
Mode 5	2400-2483.5	1+2	802.11n HT40	09	2452	MCS0	-	LF

C2. Summary of each worse mode

<Ant. 1>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11ax HE20	01	2389.95	52.72	54.00	-1.28	H	Avg.	Pass	Full RU	Band Edge

<Ant. 2>

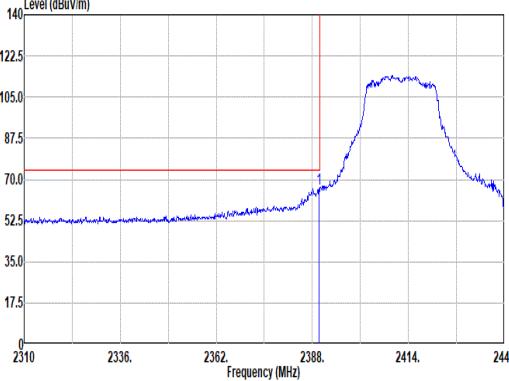
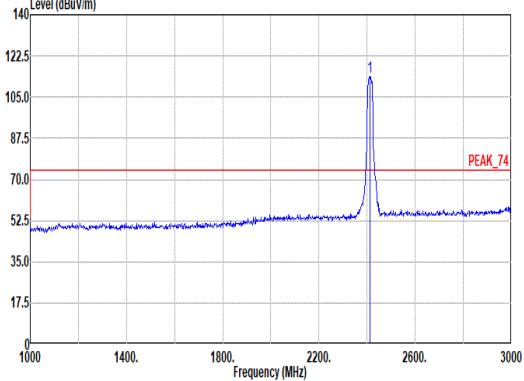
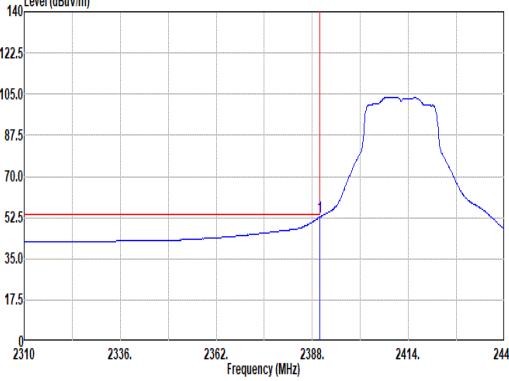
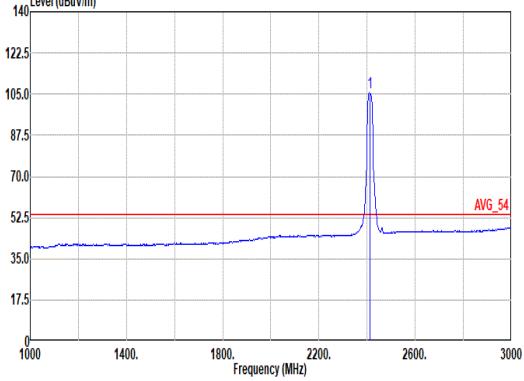
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
2	802.11ax HE20	01	2389.95	53.65	54.00	-0.35	H	Avg.	Pass	Full RU	Band Edge

MIMO<Ant. 1+2>

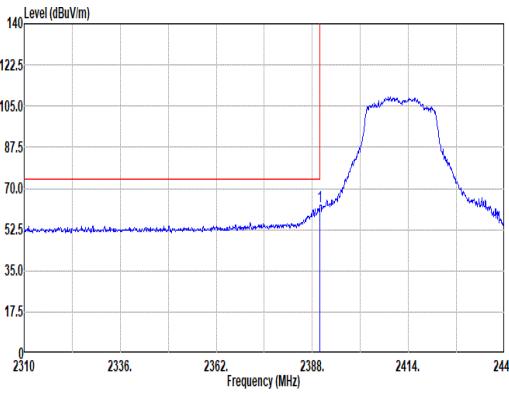
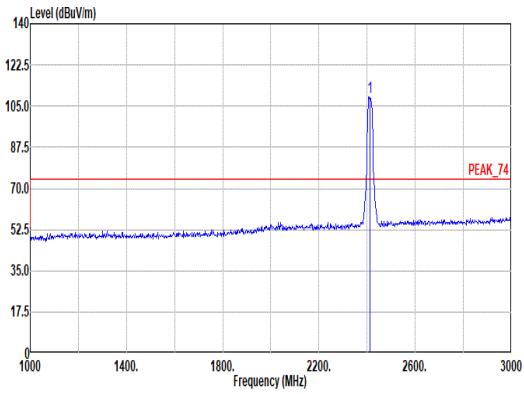
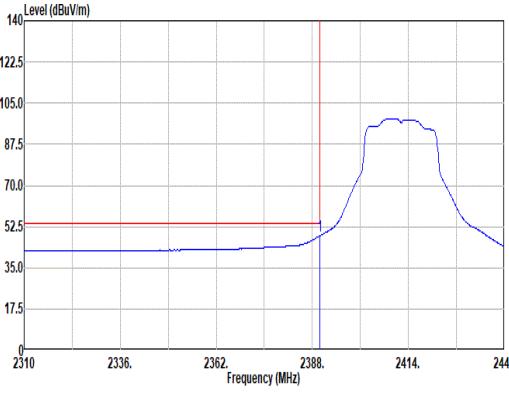
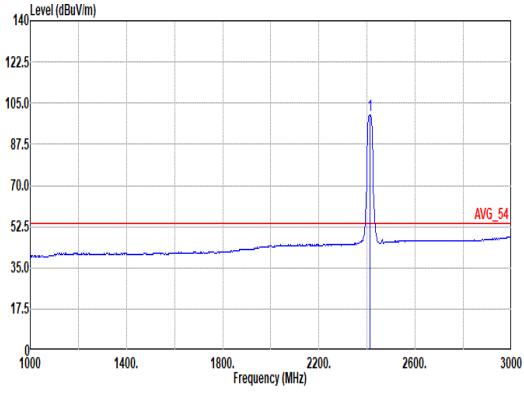
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
3	802.11n HT40	09	2483.54	53.78	54.00	-0.22	H	Avg.	Pass	-	Band Edge
	802.11n HT40	09	7356.00	47.04	74.00	-26.96	V	Peak	Pass	-	Harmonic
4	802.11n HT40	09	25328.00	40.87	74.00	-33.13	V	Peak	Pass	-	SHF
5	802.11n HT40	09	804.06	37.99	46.00	-8.01	V	Peak	Pass	-	LF



<Ant. 1>

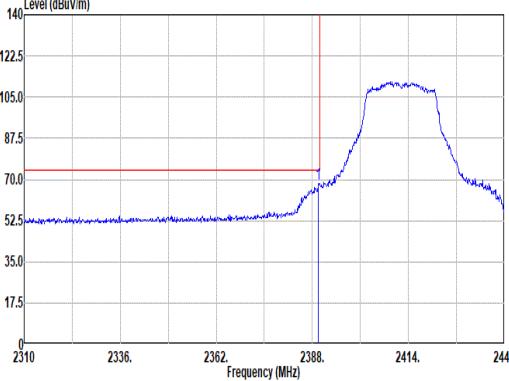
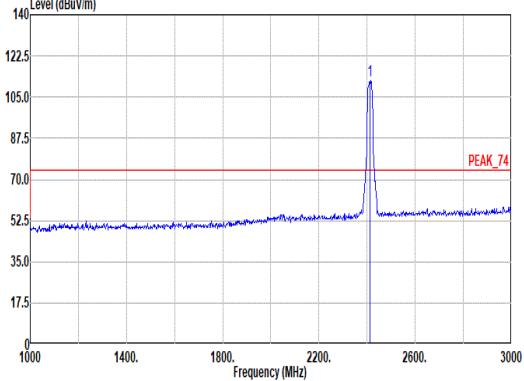
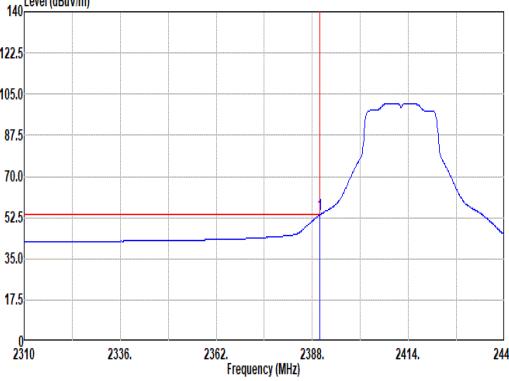
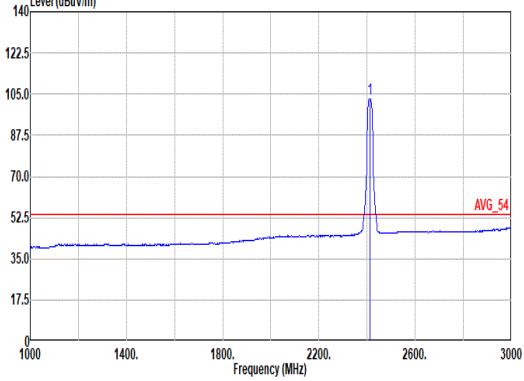
Mode	1																																																																																																																									
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	2400-2483.5_802.11ax HE20_CH01_Full RU_2412MHz																																																																																																																									
ANT	1																																																																																																																									
Pol.	Horizontal	Fundamental																																																																																																																								
																																																																																																																										
Peak	<p>Site : 03CH12-HY Condition: PEAK_BE_74 3m 91200-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2389.82</td><td>65.99</td><td>74.00</td><td>-8.01</td><td>55.84</td><td>27.50</td><td>6.77</td><td>34.15</td><td>10.03</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2389.82	65.99	74.00	-8.01	55.84	27.50	6.77	34.15	10.03																					<p>Site : 03CH12-HY Condition: PEAK_74 3m 91200-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2412.00</td><td>113.82</td><td>-----</td><td>-----</td><td>103.56</td><td>27.60</td><td>6.79</td><td>34.16</td><td>10.03</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	113.82	-----	-----	103.56	27.60	6.79	34.16	10.03																				
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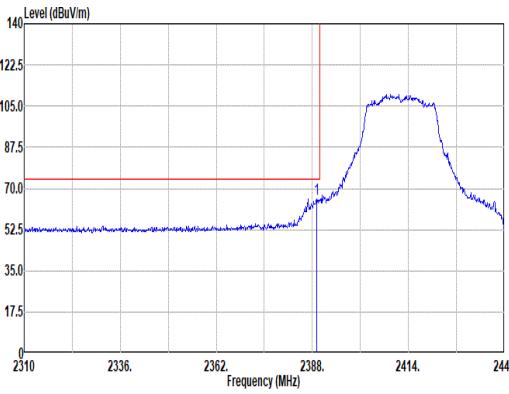
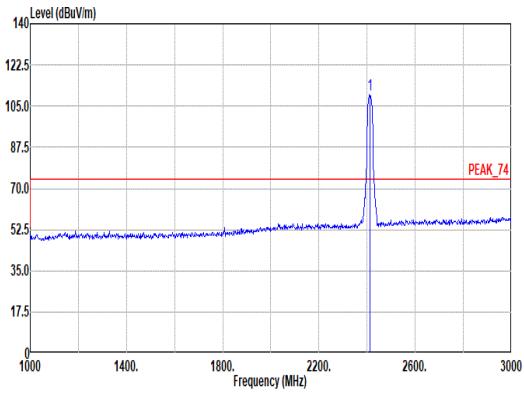
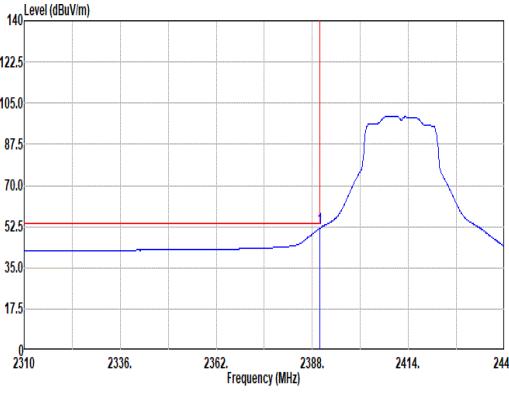
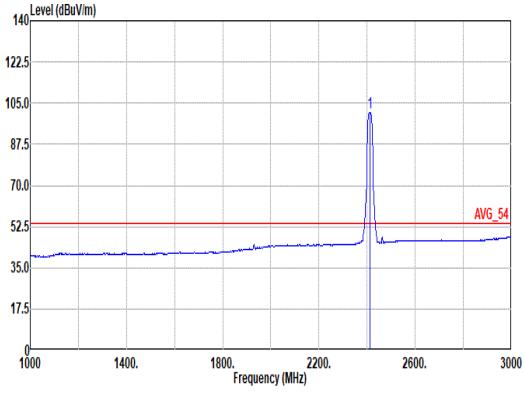
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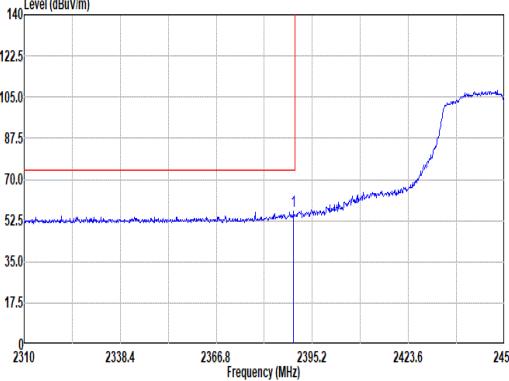
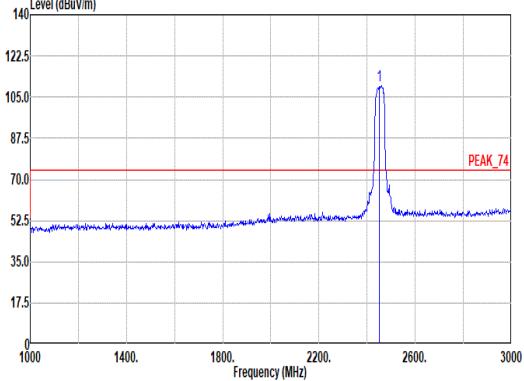
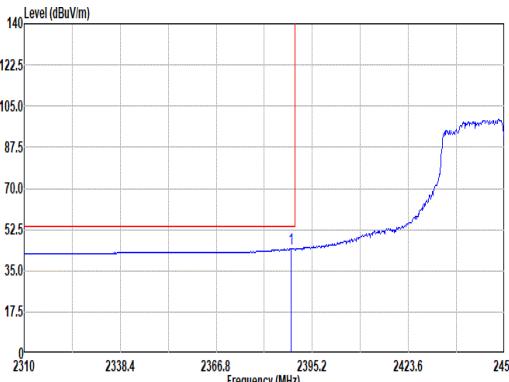
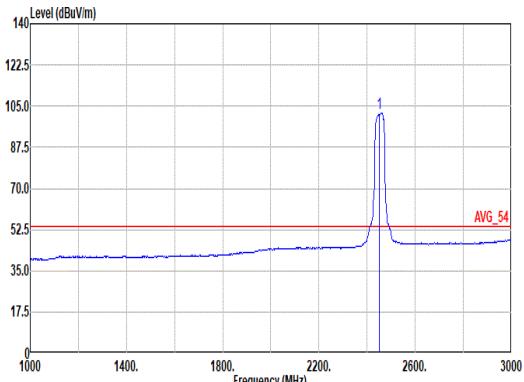
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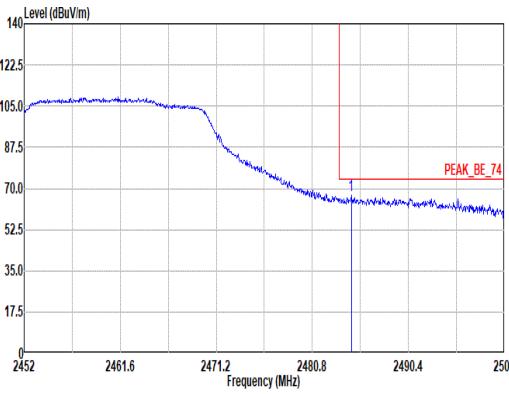
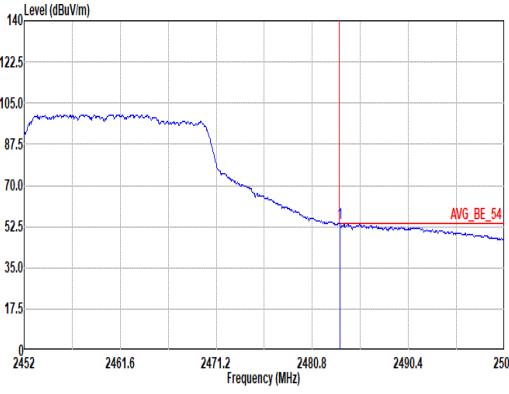
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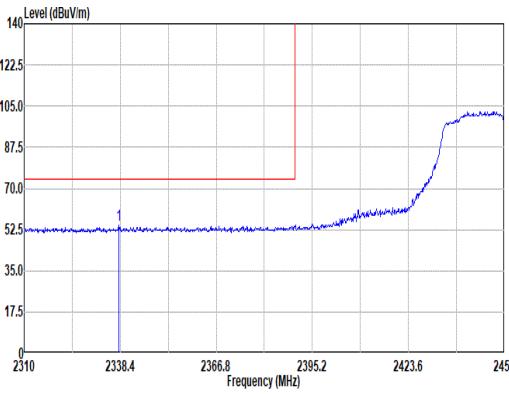
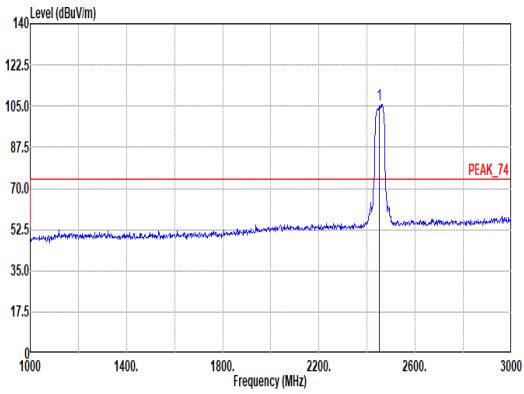
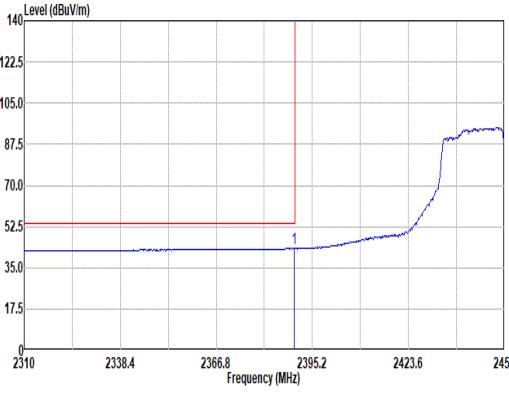
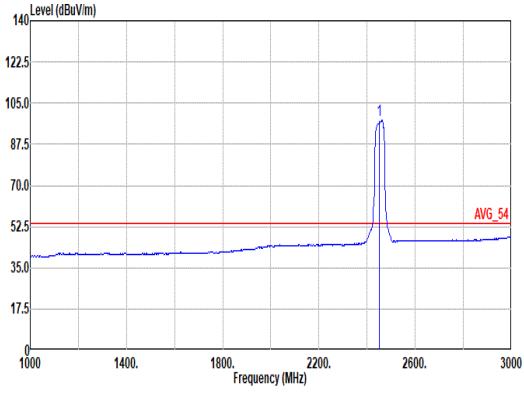
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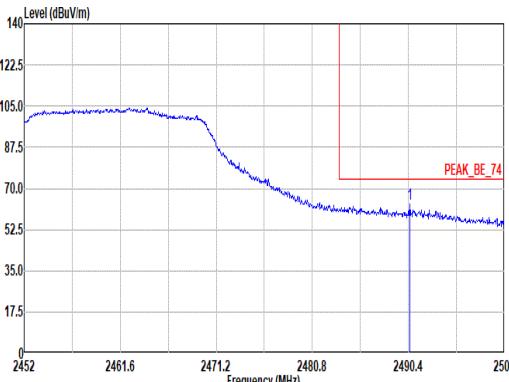
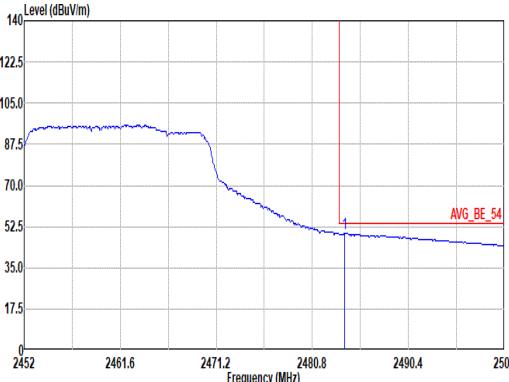


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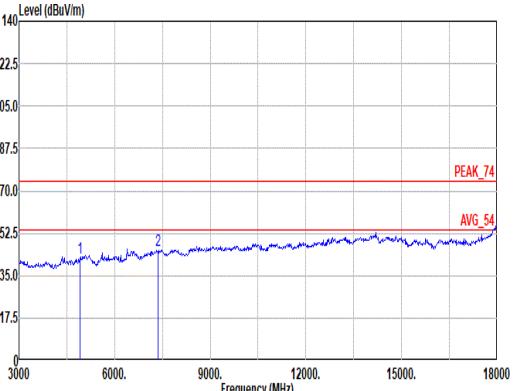
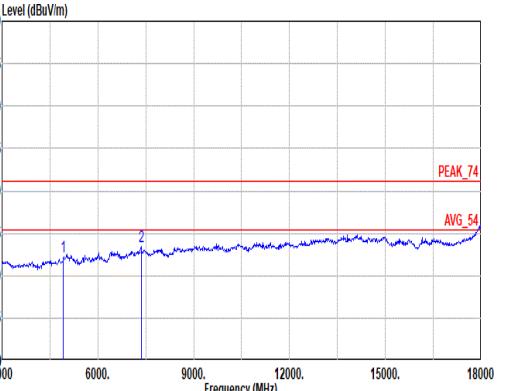
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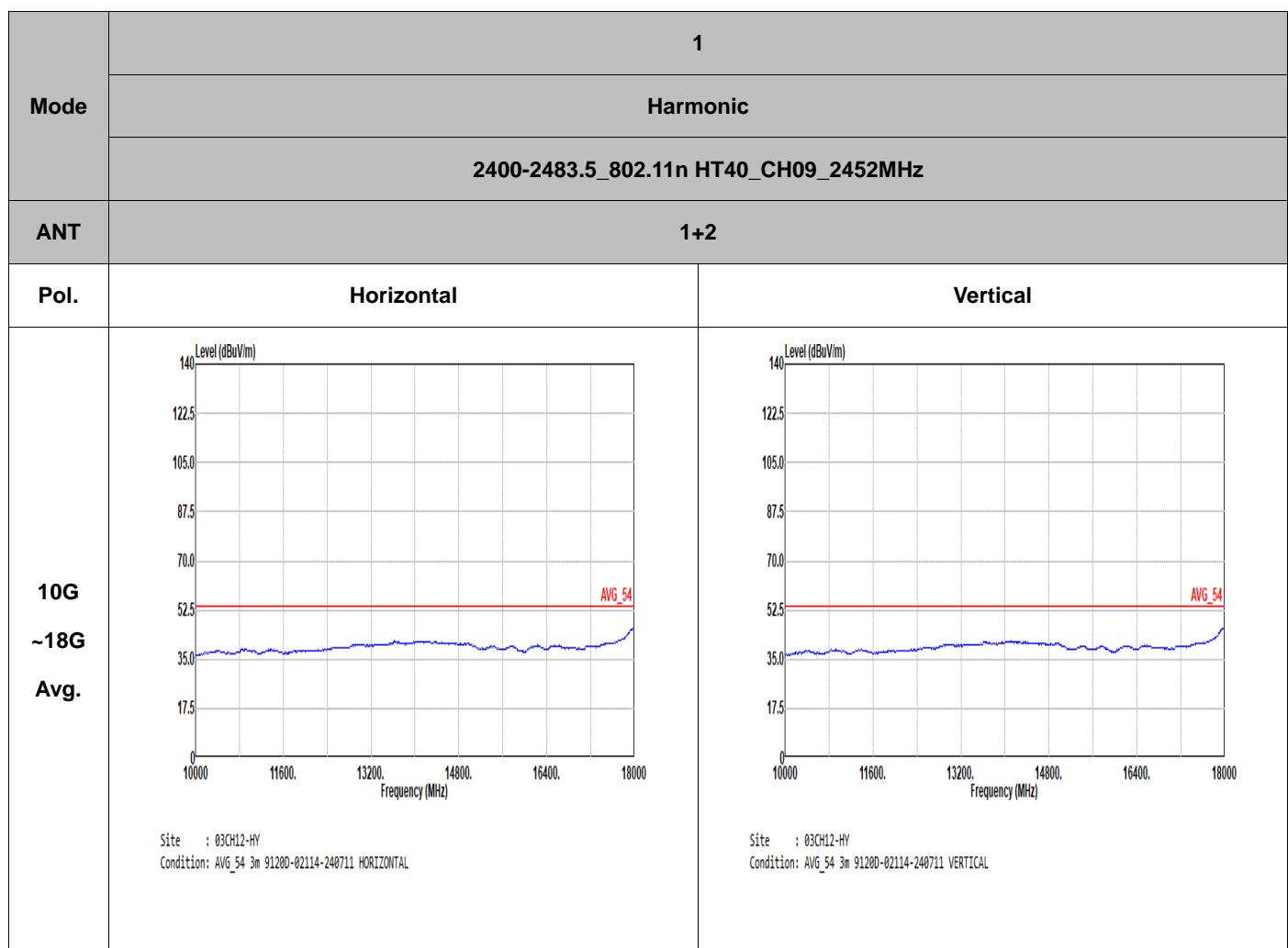


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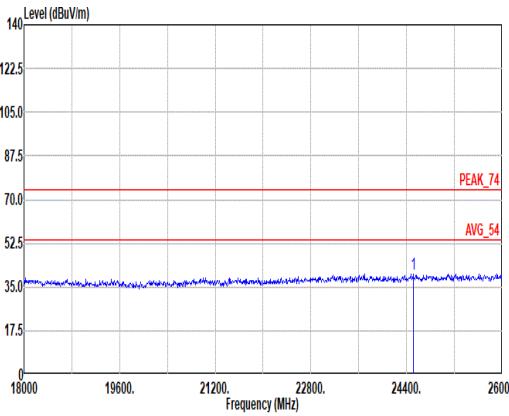
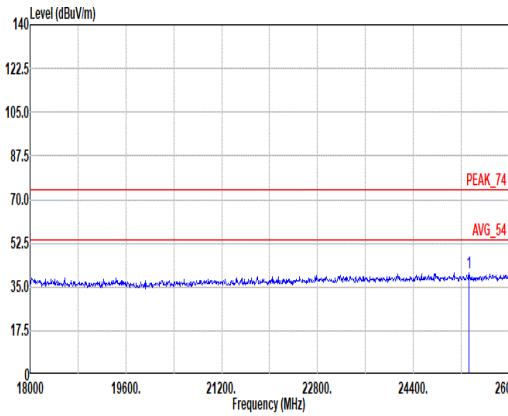


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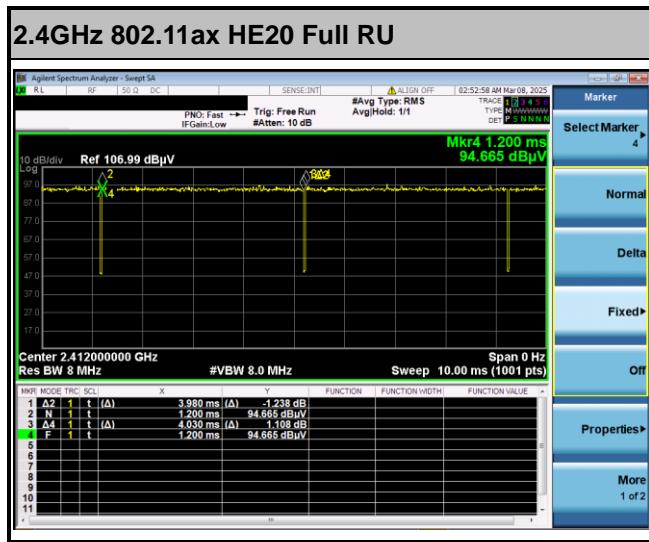


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	<p>Site : 03CH12-HY Condition: QP 3m Bilog_37059_20241127 HORIZONTAL</p> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>76.56</td><td>38.07</td><td>48.00</td><td>-9.93</td><td>45.33</td><td>13.36</td><td>1.21</td><td>29.90</td><td>0.07 -- Peak</td></tr><tr><td>2</td><td>155.13</td><td>31.04</td><td>43.50</td><td>-12.46</td><td>41.87</td><td>17.13</td><td>1.74</td><td>29.83</td><td>0.13 -- Peak</td></tr><tr><td>3</td><td>312.27</td><td>31.21</td><td>46.00</td><td>-14.79</td><td>38.51</td><td>19.55</td><td>2.48</td><td>29.54</td><td>0.21 -- Peak</td></tr><tr><td>4</td><td>394.72</td><td>30.33</td><td>46.00</td><td>-15.67</td><td>35.08</td><td>21.88</td><td>2.73</td><td>29.45</td><td>0.17 -- Peak</td></tr><tr><td>5</td><td>719.67</td><td>37.22</td><td>46.00</td><td>-8.78</td><td>34.78</td><td>27.37</td><td>3.73</td><td>28.98</td><td>0.32 -- Peak</td></tr><tr><td>6</td><td>928.22</td><td>36.80</td><td>46.00</td><td>-9.20</td><td>30.73</td><td>29.84</td><td>4.22</td><td>28.39</td><td>0.40 -- Peak</td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Margin	Level	Factor	Loss	Factor	Factor			1	76.56	38.07	48.00	-9.93	45.33	13.36	1.21	29.90	0.07 -- Peak	2	155.13	31.04	43.50	-12.46	41.87	17.13	1.74	29.83	0.13 -- Peak	3	312.27	31.21	46.00	-14.79	38.51	19.55	2.48	29.54	0.21 -- Peak	4	394.72	30.33	46.00	-15.67	35.08	21.88	2.73	29.45	0.17 -- Peak	5	719.67	37.22	46.00	-8.78	34.78	27.37	3.73	28.98	0.32 -- Peak	6	928.22	36.80	46.00	-9.20	30.73	29.84	4.22	28.39	0.40 -- Peak	<p>Site : 03CH12-HY Condition: QP 3m Bilog_37059_20241127 VERTICAL</p> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>88.20</td><td>33.89</td><td>43.50</td><td>-9.61</td><td>47.57</td><td>14.85</td><td>1.31</td><td>29.91</td><td>0.07 -- Peak</td></tr><tr><td>2</td><td>186.17</td><td>30.30</td><td>43.50</td><td>-13.20</td><td>43.02</td><td>15.08</td><td>1.90</td><td>29.79</td><td>0.09 -- Peak</td></tr><tr><td>3</td><td>287.05</td><td>26.06</td><td>46.00</td><td>-19.94</td><td>33.92</td><td>19.16</td><td>2.36</td><td>29.58</td><td>0.20 -- Peak</td></tr><tr><td>4</td><td>454.86</td><td>36.12</td><td>46.00</td><td>-9.88</td><td>38.90</td><td>23.40</td><td>2.96</td><td>29.35</td><td>0.21 -- Peak</td></tr><tr><td>5</td><td>718.70</td><td>37.70</td><td>46.00</td><td>-8.30</td><td>35.31</td><td>27.33</td><td>3.73</td><td>28.98</td><td>0.31 -- Peak</td></tr><tr><td>6</td><td>804.06</td><td>37.99</td><td>46.00</td><td>-8.01</td><td>34.24</td><td>28.33</td><td>3.92</td><td>28.88</td><td>0.30 -- Peak</td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Margin	Level	Factor	Loss	Factor	Factor			1	88.20	33.89	43.50	-9.61	47.57	14.85	1.31	29.91	0.07 -- Peak	2	186.17	30.30	43.50	-13.20	43.02	15.08	1.90	29.79	0.09 -- Peak	3	287.05	26.06	46.00	-19.94	33.92	19.16	2.36	29.58	0.20 -- Peak	4	454.86	36.12	46.00	-9.88	38.90	23.40	2.96	29.35	0.21 -- Peak	5	718.70	37.70	46.00	-8.30	35.31	27.33	3.73	28.98	0.31 -- Peak	6	804.06	37.99	46.00	-8.01	34.24	28.33	3.92	28.88
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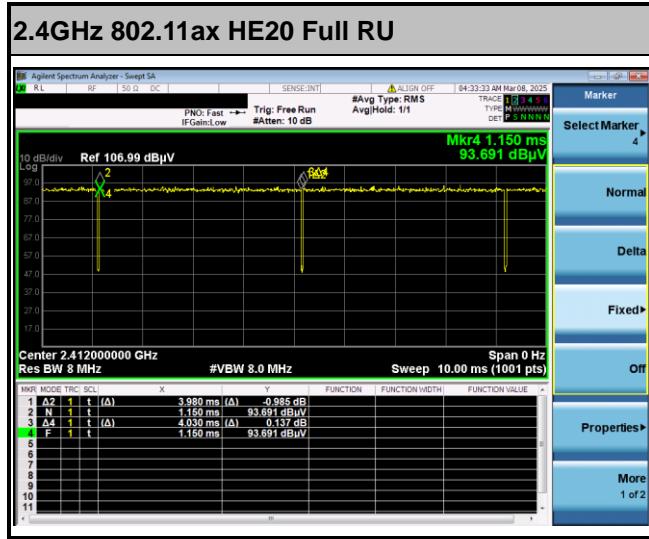
Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	2.4GHz 802.11ax HE20 Full RU	98.76	-	-	10Hz
2	2.4GHz 802.11ax HE20 Full RU	98.76	-	-	10Hz
1+2	2.4GHz 802.11n HT40	99.50	-	-	10Hz

<Ant. 1>



<Ant. 2>





MIMO <Ant. 1+2>

