



FCC RF Test Report

APPLICANT : Quectel Wireless Solutions Co., Ltd.
EQUIPMENT : Smart Module
BRAND NAME : Quectel
MODEL NAME : SG560D-WF
FCC ID : XMR2023SG560DWF
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Sep. 11, 2024 ~ Sep. 30, 2024

We, Sporton International Inc.(ShenZhen), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Kunshan)

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc.(ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	6
1.5 Modification of EUT	7
1.6 Testing Location	7
1.7 Test Software.....	8
1.8 Applicable Standards.....	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Carrier Frequency and Channel	9
2.2 Test Mode.....	11
2.3 Connection Diagram of Test System.....	12
2.4 Support Unit used in test configuration and system	12
2.5 EUT Operation Test Setup	12
3 TEST RESULT	13
3.1 Maximum Conducted Output Power Measurement	13
3.2 Unwanted Emissions Measurement	15
3.3 Antenna Requirements	20
4 LIST OF MEASURING EQUIPMENT	21
5 MEASUREMENT UNCERTAINTY	22
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. RADIATED SPURIOUS EMISSION	
APPENDIX C. DUTY CYCLE PLOTS	
APPENDIX D. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR482209D	Rev. 01	Initial issue of report	Oct. 23, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm for UNII-1, and 24 dBm for UNII-2A/2C	≤ 30 dBm	Pass	-
3.2	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 2.72 dB at 5350.01 MHz
3.3	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Remark : This is a variant report, the change note could be referred to the Class II Permissive Change letter which is exhibit separately. According to the differences, only the related test cases were verified from original test report (Report Number PD20230213RF04).

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/manufacture 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.



1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District,
Shanghai 200233, China

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District,
Shanghai 200233, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Module
Brand Name	Quectel
Model Name	SG560D-WF
FCC ID	XMR2023SG560DWF
SN Code	Conducted: D1C24CG10000191 Conduction: D1C24CG10000046 Radiation: 6d896798
HW Version	R2.0
SW Version	SG560DWFPBR03A01
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5250 MHz 5250 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	MIMO <Ant. 1 + 2> <5180 MHz ~ 5250 MHz> 802.11a : 17.24 dBm / 0.0530 W 802.11n HT20 : 18.06 dBm / 0.0640 W 802.11n HT40 : 18.15 dBm / 0.0653 W 802.11ac VHT20: 17.08 dBm / 0.0511 W 802.11ac VHT40: 16.55 dBm / 0.0452 W 802.11ac VHT80: 16.51 dBm / 0.0448 W 802.11ax HE20: 17.11 dBm / 0.0514 W 802.11ax HE40: 16.58 dBm / 0.0455 W 802.11ax HE80: 16.40 dBm / 0.0437 W <5250 MHz ~ 5320 MHz> 802.11a : 17.64 dBm / 0.0581 W 802.11n HT20 : 18.56 dBm / 0.0718 W 802.11n HT40 : 18.62 dBm / 0.0728 W 802.11ac VHT20: 17.42 dBm / 0.0552 W 802.11ac VHT40: 16.97 dBm / 0.0498 W 802.11ac VHT80: 15.68 dBm / 0.037 W 802.11ax HE20: 17.45 dBm / 0.0556 W 802.11ax HE40: 17.00 dBm / 0.0501 W 802.11ax HE80: 16.84 dBm / 0.0483 W 802.11ax HE160: 14.28 dBm / 0.0268 W <5500 MHz ~ 5720 MHz > 802.11a : 17.87 dBm / 0.0612 W 802.11n HT20 : 17.74 dBm / 0.0594 W 802.11n HT40 : 18.74 dBm / 0.0748 W 802.11ac VHT20: 17.20 dBm / 0.0525 W 802.11ac VHT40: 17.12 dBm / 0.0515 W 802.11ac VHT80: 17.21 dBm / 0.0526 W 802.11ax HE20: 17.26 dBm / 0.0532 W 802.11ax HE40: 17.15 dBm / 0.0519 W 802.11ax HE80: 17.25 dBm / 0.0531 W 802.11ax HE160: 15.88 dBm / 0.0387 W <5745 MHz ~ 5825 MHz> 802.11a : 17.21 dBm / 0.0526 W 802.11n HT20 : 17.87 dBm / 0.0612 W 802.11n HT40 : 17.82 dBm / 0.0605 W 802.11ac VHT20: 16.96 dBm / 0.0497 W 802.11ac VHT40: 16.12 dBm / 0.0409 W 802.11ac VHT80: 16.20 dBm / 0.0417 W 802.11ax HE20: 17.00 dBm / 0.0501 W 802.11ax HE40: 16.16 dBm / 0.0413 W 802.11ax HE80: 16.24 dBm / 0.0421 W

Antenna Type / Gain	<5180 MHz ~ 5240 MHz> <Ant. 1> : Dipole Antenna type with gain -0.7 dBi <Ant. 2> : Dipole Antenna type with gain -0.7 dBi <5260 MHz ~ 5320 MHz> <Ant. 1> : Dipole Antenna type with gain -0.8 dBi <Ant. 2> : Dipole Antenna type with gain -0.8 dBi <5500 MHz ~ 5720 MHz> <Ant. 1> : Dipole Antenna type with gain -1.2 dBi <Ant. 2> : Dipole Antenna type with gain -1.2 dBi <5745 MHz ~ 5825 MHz> <Ant. 1> : Dipole Antenna type with gain -1.5 dBi <Ant. 2> : Dipole Antenna type with gain -1.5 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Note: WLAN MIMO support CDD mode.

1.5 Modification of EUT

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

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS	CN1257	314309

Note : Test data subcontracted: conducted test case in section 3.1 of this report

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)
------------------	---------------------------------------



Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- 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 (Y plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	50 ^{##}	5250
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	50 ^{##}	5250
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825



Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640
	-	-	114 ^{##}	5570

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710	-	-

Note:

1. The above Frequency and Channel in "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "[#]" are 80MHz bandwidth.
3. The above Frequency and Channel in "^{##}" are 160MHz bandwidth.

2.2 Test Mode

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

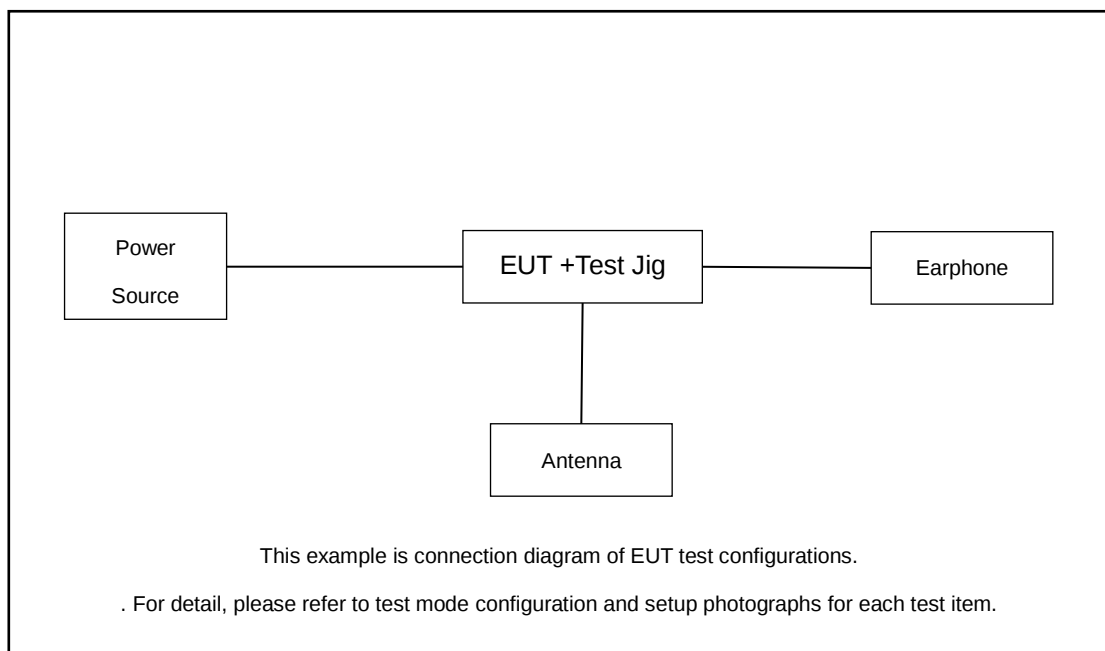
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	-	-
Straddle		-	-	138	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		160M BW		160M BW	160M BW
M	Middle	50		114	-

2.3 Connection Diagram of Test System

Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Test Jig	N/A	N/A	N/A	N/A	N/A
2.	Antenna	N/A	N/A	N/A	N/A	N/A
3.	Earphone	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm +10 log₁₀ B, where B is the 26 dB emission bandwidth in megahertz.

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

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

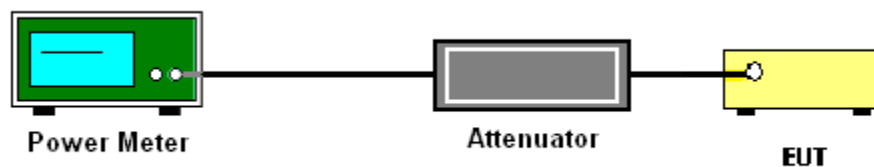
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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 as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz .

- (2) 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.

(3) 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

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

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

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

(4) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.2.2 Measuring Instruments

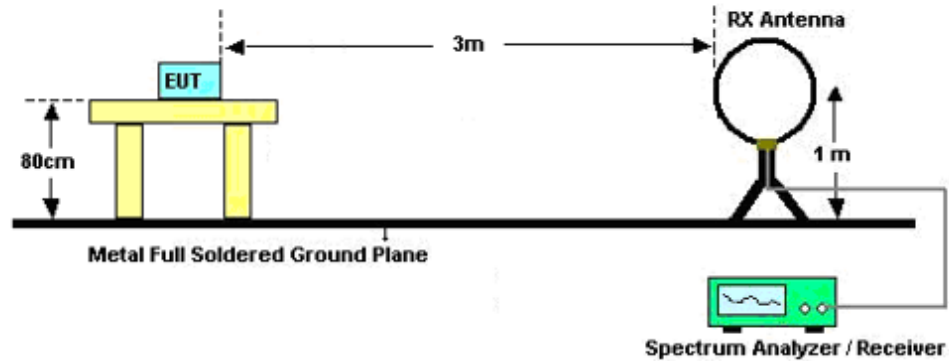
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

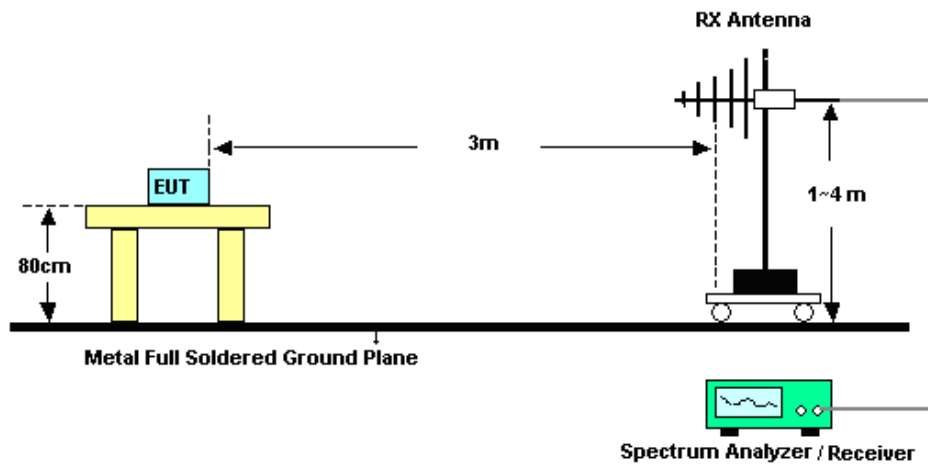
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted 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.
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

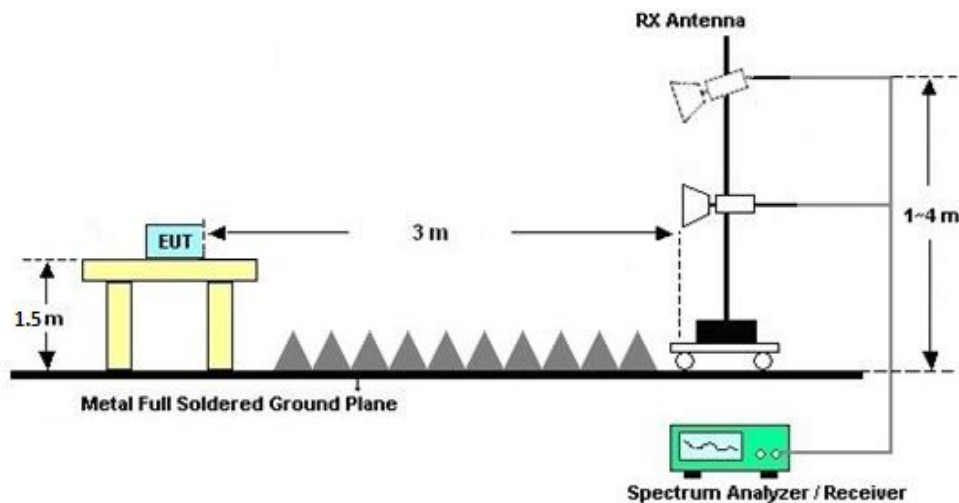
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.2.5 Test Results of Radiated Spurious 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 semi-Anechoic chamber, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.



3.3 Antenna Requirements

3.3.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), 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 = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = $10 \log(\text{NANT}/\text{NSS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

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 GANT 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. 1	Ant. 2	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	(dBi)	(dBi)				
UNII-1	-0.70	-0.70	-0.70	2.31	0.00	0.00
UNII-2A	-0.80	-0.80	-0.80	2.21	0.00	0.00
UNII-2C	-1.20	-1.20	-1.20	1.81	0.00	0.00
UNII-3	-1.50	-1.50	-1.50	1.51	0.00	0.00

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

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Sep. 30, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Sep. 30, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Sep. 30, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Sep. 11, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Sep. 11, 2024~ Sep. 30, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Sep. 11, 2024~ Sep. 30, 2024	Dec. 28, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2024	Sep. 11, 2024~ Sep. 30, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Sep. 11, 2024~ Sep. 30, 2024	Jul. 06, 2025	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2024	Sep. 11, 2024~ Sep. 30, 2024	Jul. 03, 2025	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Sep. 11, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Sep. 11, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 03, 2024	Sep. 11, 2024~ Sep. 30, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5G Hz	Jul. 03, 2024	Sep. 11, 2024~ Sep. 30, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Sep. 11, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 11, 2024~ Sep. 30, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 11, 2024~ Sep. 30, 2024	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Power	±0.50 dB
-----------------	----------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
---	--------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jiang Jun	Temperature:	21~25	°C
Test Date:	2024.9.30	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting	
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		Ant 1	Ant 2
11a	6Mbps	2	36	5180	0.04	0.03	13.81	13.95	16.89	30.00		-0.70	Pass		14.5	
11a	6Mbps	2	44	5220	0.04	0.03	14.27	14.16	17.22	30.00		-0.70	Pass		14.5	
11a	6Mbps	2	48	5240	0.04	0.03	14.28	14.19	17.24	30.00		-0.70	Pass		14.5	
HT20	MCS0	2	36	5180	0.00	0.00	14.67	15.02	17.86	30.00		-0.70	Pass		15.5	
HT20	MCS0	2	44	5220	0.00	0.00	15.01	14.14	17.61	30.00		-0.70	Pass		15.5	
HT20	MCS0	2	48	5240	0.00	0.00	14.97	15.12	18.06	30.00		-0.70	Pass		15.5	
HT40	MCS0	2	38	5190	0.00	0.00	14.91	15.08	18.01	30.00		-0.70	Pass		15.5	
HT40	MCS0	2	46	5230	0.00	0.00	15.02	15.25	18.15	30.00		-0.70	Pass		15.5	
VHT20	MCS0	2	36	5180	0.00	0.00	13.63	13.90	16.78	30.00		-0.70	Pass		14.5	
VHT20	MCS0	2	44	5220	0.00	0.00	14.04	14.09	17.08	30.00		-0.70	Pass		14.5	
VHT20	MCS0	2	48	5240	0.00	0.00	14.02	13.95	17.00	30.00		-0.70	Pass		14.5	
VHT40	MCS0	2	38	5190	0.00	0.00	13.08	13.20	16.15	30.00		-0.70	Pass		14	
VHT40	MCS0	2	46	5230	0.00	0.00	13.56	13.51	16.55	30.00		-0.70	Pass		14	
VHT80	MCS0	2	42	5210	0.00	0.00	13.46	13.54	16.51	30.00		-0.70	Pass		14	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.04	0.03	14.58	14.41	17.50	23.76		-0.80	30.00	Pass	
11a	6Mbps	2	60	5300	0.04	0.03	14.62	14.30	17.47	23.72		-0.80	30.00	Pass	
11a	6Mbps	2	64	5320	0.04	0.03	14.78	14.48	17.64	23.80		-0.80	30.00	Pass	
HT20	MCS0	2	52	5260	0.00	0.00	15.37	15.44	18.42	23.98		-0.80	30.00	Pass	
HT20	MCS0	2	60	5300	0.00	0.00	15.35	15.37	18.37	23.98		-0.80	30.00	Pass	
HT20	MCS0	2	64	5320	0.00	0.00	15.62	15.48	18.56	23.98		-0.80	30.00	Pass	
HT40	MCS0	2	54	5270	0.00	0.00	15.42	15.51	18.48	23.98		-0.80	30.00	Pass	
HT40	MCS0	2	62	5310	0.00	0.00	15.65	15.56	18.62	23.98		-0.80	30.00	Pass	
VHT20	MCS0	2	52	5260	0.00	0.00	14.41	14.24	17.34	23.98		-0.80	30.00	Pass	
VHT20	MCS0	2	60	5300	0.00	0.00	14.44	14.22	17.34	23.98		-0.80	30.00	Pass	
VHT20	MCS0	2	64	5320	0.00	0.00	14.52	14.30	17.42	23.98		-0.80	30.00	Pass	
VHT40	MCS0	2	54	5270	0.00	0.00	13.87	13.61	16.75	23.98		-0.80	30.00	Pass	
VHT40	MCS0	2	62	5310	0.00	0.00	14.01	13.91	16.97	23.98		-0.80	30.00	Pass	
VHT80	MCS0	2	58	5290	0.00	0.00	12.33	12.98	15.68	23.98		-0.80	30.00	Pass	

Power Setting	
Ant 1	Ant 2
	14.5
	14.5
	14.5
	15.5
	15.5
	15.5
	15.5
	14.5
	14.5
	14
	14
	12.5

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.04	0.03	14.87	14.12	17.52	23.80		-1.20	30.00	Pass	
11a	6Mbps	2	116	5580	0.04	0.03	15.09	14.62	17.87	23.83		-1.20	30.00	Pass	
11a	6Mbps	2	140	5700	0.04	0.03	14.32	14.47	17.40	23.81		-1.20	30.00	Pass	
HT20	MCS0	2	100	5500	0.00	0.00	15.05	14.35	17.72	23.98		-1.20	30.00	Pass	
HT20	MCS0	2	116	5580	0.00	0.00	14.64	14.38	17.52	23.98		-1.20	30.00	Pass	
HT20	MCS0	2	140	5700	0.00	0.00	14.56	14.89	17.74	23.98		-1.20	30.00	Pass	
HT40	MCS0	2	102	5510	0.00	0.00	15.72	15.15	18.45	23.98		-1.20	30.00	Pass	
HT40	MCS0	2	110	5550	0.00	0.00	16.09	15.33	18.74	23.98		-1.20	30.00	Pass	
HT40	MCS0	2	134	5670	0.00	0.00	15.66	15.45	18.57	23.98		-1.20	30.00	Pass	
VHT20	MCS0	2	100	5500	0.00	0.00	14.52	13.82	17.19	23.98		-1.20	30.00	Pass	
VHT20	MCS0	2	116	5580	0.00	0.00	14.11	13.85	16.99	23.98		-1.20	30.00	Pass	
VHT20	MCS0	2	140	5700	0.00	0.00	14.03	14.34	17.20	23.98		-1.20	30.00	Pass	
VHT40	MCS0	2	102	5510	0.00	0.00	14.02	13.33	16.70	23.98		-1.20	30.00	Pass	
VHT40	MCS0	2	110	5550	0.00	0.00	14.52	13.66	17.12	23.98		-1.20	30.00	Pass	
VHT40	MCS0	2	134	5670	0.00	0.00	14.03	13.84	16.95	23.98		-1.20	30.00	Pass	
VHT80	MCS0	2	106	5530	0.00	0.00	14.04	13.23	16.66	23.98		-1.20	30.00	Pass	
VHT80	MCS0	2	122	5610	0.00	0.00	14.36	14.04	17.21	23.98		-1.20	30.00	Pass	

Power Setting	
Ant 1	Ant 2
14.5	
14.5	
14.5	
15.5	
15.5	
15.5	
15.5	
15.5	
14	
13.5	
14.5	
14	
14	
14	
14	
14	

FCC U-NII-2C straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	0.04	0.03	14.26	14.30	17.29	23.83		-1.20		30.00	Pass
HT20	MCS0	2	144	5720	0.00	0.00	14.41	14.64	17.54	23.98		-1.20		30.00	Pass
HT40	MCS0	2	142	5710	0.00	0.00	15.13	15.31	18.23	23.98		-1.20		30.00	Pass
VHT20	MCS0	2	144	5720	0.00	0.00	13.89	14.12	17.02	23.98		-1.20		30.00	Pass
VHT40	MCS0	2	142	5710	0.00	0.00	13.50	13.71	16.62	23.98		-1.20		30.00	Pass
VHT80	MCS0	2	138	5690	0.00	0.00	13.49	13.84	16.68	23.98		-1.20		30.00	Pass

Power Setting	
Ant 1	Ant 2
14.5	
15.5	
15.5	
14.5	
14	
14	

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.04	0.03	13.97	13.85	16.92	30.00		-1.50		Pass
11a	6Mbps	2	157	5785	0.04	0.03	13.98	13.75	16.88	30.00		-1.50		Pass
11a	6Mbps	2	165	5825	0.04	0.03	14.43	13.96	17.21	30.00		-1.50		Pass
HT20	MCS0	2	149	5745	0.00	0.00	14.73	14.81	17.78	30.00		-1.50		Pass
HT20	MCS0	2	157	5785	0.00	0.00	14.81	14.58	17.71	30.00		-1.50		Pass
HT20	MCS0	2	165	5825	0.00	0.00	15.06	14.66	17.87	30.00		-1.50		Pass
HT40	MCS0	2	151	5755	0.00	0.00	14.89	14.72	17.82	30.00		-1.50		Pass
HT40	MCS0	2	159	5795	0.00	0.00	14.83	14.49	17.67	30.00		-1.50		Pass
VHT20	MCS0	2	149	5745	0.00	0.00	13.64	13.78	16.72	30.00		-1.50		Pass
VHT20	MCS0	2	157	5785	0.00	0.00	13.70	13.17	16.45	30.00		-1.50		Pass
VHT20	MCS0	2	165	5825	0.00	0.00	14.08	13.82	16.96	30.00		-1.50		Pass
VHT40	MCS0	2	151	5755	0.00	0.00	13.12	13.09	16.12	30.00		-1.50		Pass
VHT40	MCS0	2	159	5795	0.00	0.00	13.23	12.92	16.09	30.00		-1.50		Pass
VHT80	MCS0	2	155	5775	0.00	0.00	13.31	13.07	16.20	30.00		-1.50		Pass

Power Setting	
Ant 1	Ant 2
14.5	
14.5	
14.5	
15.5	
15.5	
15.5	
15.5	
14.5	
14.5	
14.5	
14	
14	
14	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	0.00	0.00	13.66	13.93	16.81	30.00		-0.70		Pass
HE20	MCS0	2	44	5220	Full	0.00	0.00	14.06	14.14	17.11	30.00		-0.70		Pass
HE20	MCS0	2	48	5240	Full	0.00	0.00	14.06	13.97	17.03	30.00		-0.70		Pass
HE40	MCS0	2	38	5190	Full	0.00	0.00	13.12	13.23	16.19	30.00		-0.70		Pass
HE40	MCS0	2	46	5230	Full	0.00	0.00	13.59	13.55	16.58	30.00		-0.70		Pass
HE80	MCS0	2	42	5210	Full	0.00	0.00	13.06	13.69	16.40	30.00		-0.70		Pass
HE160	MCS0	2	50	5250	Full	0.03	0.03	10.91	11.61	14.28	30.00		-0.70		Pass

Power Setting
2Tx
14.5
14.5
14.5
14
14
13.5
11.5

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting	
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			Ant 1	Ant 2
HE20	MCS0	2	52	5260	Full	0.00	0.00	14.44	14.27	17.37	23.98		-0.80	30.00	Pass		Ant 1	Ant 2
HE20	MCS0	2	60	5300	Full	0.00	0.00	14.46	14.25	17.37	23.98		-0.80	30.00	Pass		14.5	
HE20	MCS0	2	64	5320	Full	0.00	0.00	14.56	14.32	17.45	23.98		-0.80	30.00	Pass		14.5	
HE40	MCS0	2	54	5270	Full	0.00	0.00	13.92	13.66	16.80	23.98		-0.80	30.00	Pass		14	
HE40	MCS0	2	62	5310	Full	0.00	0.00	14.03	13.94	17.00	23.98		-0.80	30.00	Pass		14	
HE80	MCS0	2	58	5290	Full	0.00	0.00	11.76	12.28	15.04	23.98		-0.80	30.00	Pass		12	
HE160	MCS0	2	50	5250	Full	0.03	0.03	10.91	11.61	14.28	23.98		-0.80	30.00	Pass		11.5	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	0.00	0.00	14.59	13.89	17.26	23.98	-1.20		30.00	Pass	
HE20	MCS0	2	116	5580	Full	0.00	0.00	14.14	13.88	17.02	23.98	-1.20		30.00	Pass	
HE20	MCS0	2	140	5700	Full	0.00	0.00	14.06	14.38	17.23	23.98	-1.20		30.00	Pass	
HE40	MCS0	2	102	5510	Full	0.00	0.00	14.06	13.37	16.74	23.98	-1.20		30.00	Pass	
HE40	MCS0	2	110	5550	Full	0.00	0.00	14.55	13.68	17.15	23.98	-1.20		30.00	Pass	
HE40	MCS0	2	134	5670	Full	0.00	0.00	14.07	13.88	16.99	23.98	-1.20		30.00	Pass	
HE80	MCS0	2	106	5530	Full	0.00	0.00	14.06	13.27	16.69	23.98	-1.20		30.00	Pass	
HE80	MCS0	2	122	5610	Full	0.00	0.00	14.41	14.06	17.25	23.98	-1.20		30.00	Pass	
HE160	MCS0	2	114	5570	Full	0.03	0.03	13.09	12.65	15.88	23.98	-1.20		30.00	Pass	

Power Setting	
Ant 1	Ant 2
14	
13.5	
14.5	
14	
14	
14	
14	
14	
12.5	

FCC U-NII-2C straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full	0.00	0.00	13.93	14.14	17.05	23.98		-1.20		30.00	Pass
HE40	MCS0	2	142	5710	Full	0.00	0.00	13.52	13.73	16.64	23.98		-1.20		30.00	Pass
HE80	MCS0	2	138	5690	Full	0.00	0.00	13.53	13.89	16.72	23.98		-1.20		30.00	Pass

Power Setting	
Ant 1	Ant 2
14.5	
14	
14	

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.00	0.00	13.66	13.82	16.75	30.00		-1.50		Pass
HE20	MCS0	2	157	5785	Full	0.00	0.00	13.73	13.57	16.66	30.00		-1.50		Pass
HE20	MCS0	2	165	5825	Full	0.00	0.00	14.13	13.85	17.00	30.00		-1.50		Pass
HE40	MCS0	2	151	5755	Full	0.00	0.00	13.15	13.14	16.16	30.00		-1.50		Pass
HE40	MCS0	2	159	5795	Full	0.00	0.00	13.27	12.95	16.12	30.00		-1.50		Pass
HE80	MCS0	2	155	5775	Full	0.00	0.00	13.34	13.11	16.24	30.00		-1.50		Pass

Power Setting	
Ant 1	Ant 2
14.5	
14.5	
14.5	
14	
14	
14	

Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	ZhangXu	Relative Humidity :	48~49%
		Temperature :	24°C-25°C

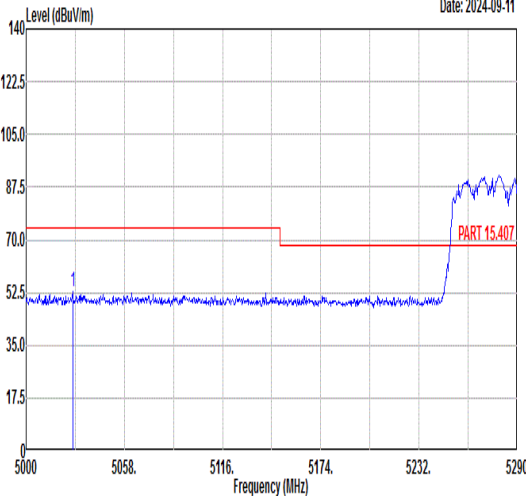
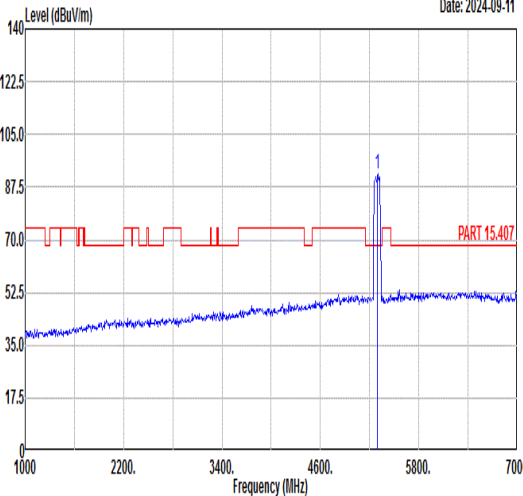
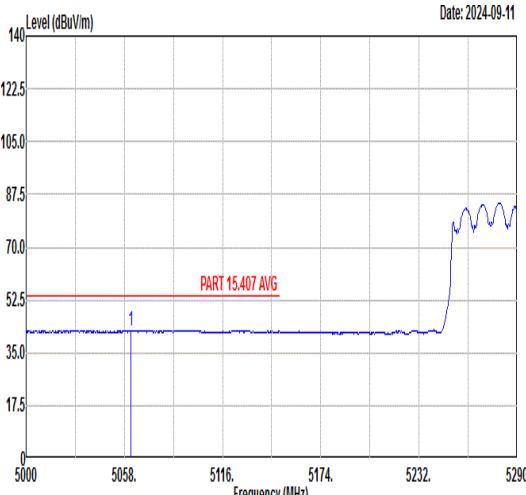
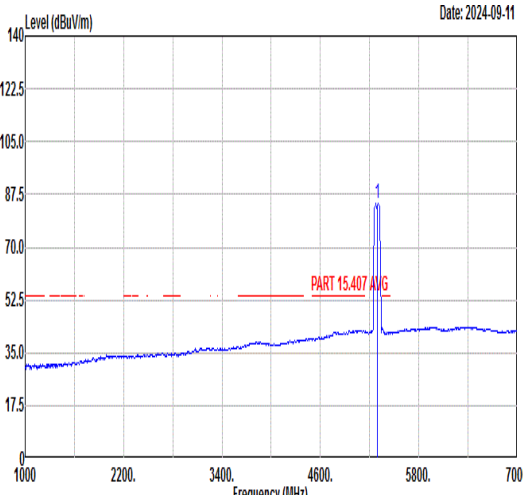
Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-2A	5.25-5.35	CDD 1+2	802.11ac VHT80	58	5290	MCS0	Full	-
Mode 2	U-NII-2A	5.25-5.35	CDD 1+2	802.11ac VHT80	58	5290	MCS0	Full	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11ac VHT80	58	5350.01	51.28	54.00	-2.72	V	AVERAGE	Pass	Band Edge
1	802.11ac VHT80	58	10580.00	48.52	68.30	-19.78	H	Peak	Pass	Harmonic
2	802.11ac VHT80	58	288.99	41.99	46.00	-4.01	H	Peak	Pass	LF

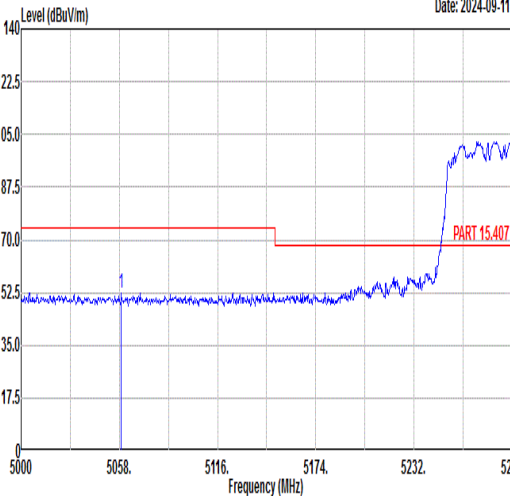
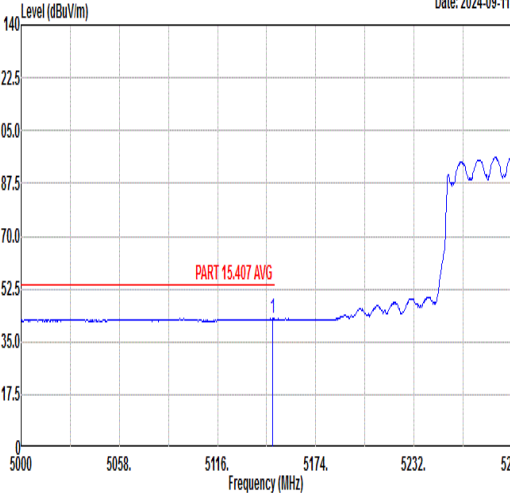
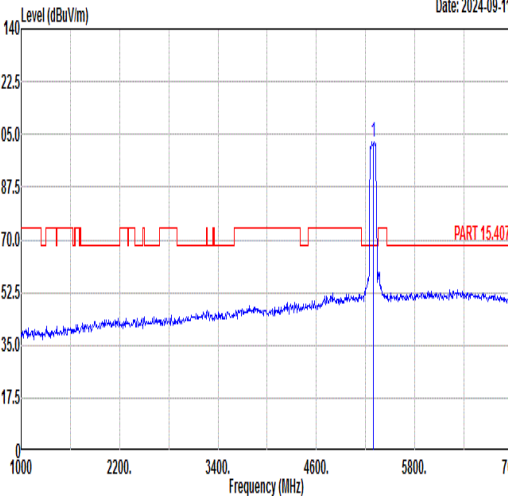
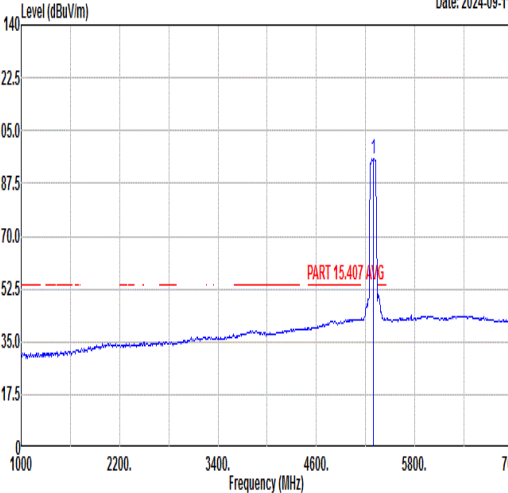


		1																																																																																							
Mode		Band Edge - L																																																																																							
		U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_Full_5290MHz																																																																																							
ANT		CDD 1+2																																																																																							
Pol.		Horizontal					Fundamental																																																																																		
Peak																																																																																									
	<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5027.55</td><td>52.60</td><td>74.00</td><td>-21.40</td><td>40.80</td><td>36.18</td><td>8.31</td><td>32.69</td><td>121 360 PEAK</td></tr></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5027.55	52.60	74.00	-21.40	40.80	36.18	8.31	32.69	121 360 PEAK	<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5290.00</td><td>91.87</td><td>-----</td><td>-----</td><td>79.37</td><td>36.02</td><td>9.12</td><td>32.64</td><td>121 360 PEAK</td></tr></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5290.00	91.87	-----	-----	79.37	36.02	9.12	32.64
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																	
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																																																																
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																
1	5027.55	52.60	74.00	-21.40	40.80	36.18	8.31	32.69	121 360 PEAK																																																																																
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																	
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																																																																
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																
1	5290.00	91.87	-----	-----	79.37	36.02	9.12	32.64	121 360 PEAK																																																																																
Avg																																																																																									
	<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5061.77</td><td>42.50</td><td>54.00</td><td>-11.50</td><td>30.66</td><td>36.16</td><td>8.37</td><td>32.69</td><td>121 360 AVERAGE</td></tr></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5061.77	42.50	54.00	-11.50	30.66	36.16	8.37	32.69	121 360 AVERAGE	<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5290.00</td><td>84.61</td><td>-----</td><td>-----</td><td>72.08</td><td>36.02</td><td>9.15</td><td>32.64</td><td>121 360 AVERAGE</td></tr></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5290.00	84.61	-----	-----	72.08	36.02	9.15	32.64
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																	
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																																																																
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																
1	5061.77	42.50	54.00	-11.50	30.66	36.16	8.37	32.69	121 360 AVERAGE																																																																																
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																	
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																																																																
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																
1	5290.00	84.61	-----	-----	72.08	36.02	9.15	32.64	121 360 AVERAGE																																																																																



Mode	1																																																																	
	Band Edge - R																																																																	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_Full_5290MHz																																																																	
ANT	CDD 1+2																																																																	
Pol.	Horizontal	Fundamental																																																																
Peak	Date: 2024-09-11 <table><thead><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th></tr></thead><tbody><tr><td>1</td><td>5359.53</td><td>51.97</td><td>74.00</td><td>-22.03</td><td>39.21</td><td>35.98</td><td>9.41</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>32.63</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>121</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>360</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PEAK</td></tr></tbody></table>	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	1	5359.53	51.97	74.00	-22.03	39.21	35.98	9.41								32.63								121								360								PEAK	Blank
Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																											
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor																																																											
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB																																																											
1	5359.53	51.97	74.00	-22.03	39.21	35.98	9.41																																																											
							32.63																																																											
							121																																																											
							360																																																											
							PEAK																																																											
Avg	Date: 2024-09-11 <table><thead><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th></tr></thead><tbody><tr><td>1</td><td>5358.52</td><td>43.43</td><td>54.00</td><td>-10.57</td><td>30.70</td><td>35.99</td><td>9.37</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>32.63</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>121</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>360</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AVERAGE</td></tr></tbody></table>	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	1	5358.52	43.43	54.00	-10.57	30.70	35.99	9.37								32.63								121								360								AVERAGE	Blank
Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																											
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor																																																											
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB																																																											
1	5358.52	43.43	54.00	-10.57	30.70	35.99	9.37																																																											
							32.63																																																											
							121																																																											
							360																																																											
							AVERAGE																																																											



		1																																																
Mode		Band Edge - L																																																
		U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_Full_5290MHz																																																
ANT		CDD 1+2																																																
Pol.		Vertical					Fundamental																																											
Peak		 Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue trace with a sharp peak at 5059.16 MHz. A red limit line is at 74.00 dB. The background is noisy. The x-axis ranges from 5000 to 5290 MHz, and the y-axis ranges from 0 to 140 dBuV/m.																																																
		<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5059.16</td><td>52.46</td><td>74.00</td><td>-21.54</td><td>40.62</td><td>36.16</td><td>8.37</td><td>32.69</td><td>185 359 PEAK</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5059.16	52.46	74.00	-21.54	40.62	36.16	8.37	32.69
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																										
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																									
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																									
1	5059.16	52.46	74.00	-21.54	40.62	36.16	8.37	32.69	185 359 PEAK																																									
Avg		 Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue trace with a peak at 5148.48 MHz. A red limit line is at 54.00 dB. The background is noisy. The x-axis ranges from 5000 to 5290 MHz, and the y-axis ranges from 0 to 140 dBuV/m.																																																
		<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5148.48</td><td>42.63</td><td>54.00</td><td>-11.37</td><td>30.66</td><td>36.11</td><td>8.53</td><td>32.67</td><td>185 359 AVERAGE</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5148.48	42.63	54.00	-11.37	30.66	36.11	8.53	32.67
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																										
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																									
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																									
1	5148.48	42.63	54.00	-11.37	30.66	36.11	8.53	32.67	185 359 AVERAGE																																									
Peak		 Level (dBuV/m) vs Frequency (MHz) for Fundamental polarization. The plot shows a blue trace with a sharp peak at 5290.00 MHz. A red limit line is at 70.00 dB. The background is noisy. The x-axis ranges from 1000 to 7000 MHz, and the y-axis ranges from 0 to 140 dBuV/m.																																																
		<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5290.00</td><td>102.62</td><td>-----</td><td>-----</td><td>90.24</td><td>36.03</td><td>8.99</td><td>32.64</td><td>185 359 PEAK</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5290.00	102.62	-----	-----	90.24	36.03	8.99	32.64
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																										
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																									
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																									
1	5290.00	102.62	-----	-----	90.24	36.03	8.99	32.64	185 359 PEAK																																									
Avg		 Level (dBuV/m) vs Frequency (MHz) for Fundamental polarization. The plot shows a blue trace with a peak at 5290.00 MHz. A red limit line is at 54.00 dB. The background is noisy. The x-axis ranges from 1000 to 7000 MHz, and the y-axis ranges from 0 to 140 dBuV/m.																																																
		<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5290.00</td><td>95.71</td><td>-----</td><td>-----</td><td>83.33</td><td>36.03</td><td>8.99</td><td>32.64</td><td>185 359 AVERAGE</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5290.00	95.71	-----	-----	83.33	36.03	8.99	32.64
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																										
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																									
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																									
1	5290.00	95.71	-----	-----	83.33	36.03	8.99	32.64	185 359 AVERAGE																																									



Mode	1	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_Full_5290MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	</	



Mode	1																																																																																	
	Harmonic																																																																																	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_Full_5290MHz																																																																																	
ANT	CDD 1+2																																																																																	
Pol.	Horizontal	Vertical																																																																																
Peak Avg	Level (dBuV/m) Date: 2024-09-30 <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Remark</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>cm</th></tr><tr><td>1 10580.00</td><td>48.52</td><td>68.30</td><td>-19.78</td><td>61.05</td><td>38.83</td><td>12.22</td><td>63.58 --- Peak</td></tr><tr><td>2 15870.00</td><td>47.04</td><td>74.00</td><td>-26.96</td><td>55.41</td><td>41.00</td><td>14.73</td><td>64.10 --- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm	1 10580.00	48.52	68.30	-19.78	61.05	38.83	12.22	63.58 --- Peak	2 15870.00	47.04	74.00	-26.96	55.41	41.00	14.73	64.10 --- Peak	Level (dBuV/m) Date: 2024-09-30 <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Remark</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>cm</th></tr><tr><td>1 10580.00</td><td>47.67</td><td>68.30</td><td>-20.63</td><td>60.20</td><td>38.83</td><td>12.22</td><td>63.58 --- Peak</td></tr><tr><td>2 15870.00</td><td>47.21</td><td>74.00</td><td>-26.79</td><td>55.58</td><td>41.00</td><td>14.73</td><td>64.10 --- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm	1 10580.00	47.67	68.30	-20.63	60.20	38.83	12.22	63.58 --- Peak	2 15870.00	47.21	74.00	-26.79	55.58	41.00	14.73	64.10 --- Peak
		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																										
	Freq	Level	Line	Margin	Level	Factor	Loss Factor	Remark																																																																										
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm																																																																											
1 10580.00	48.52	68.30	-19.78	61.05	38.83	12.22	63.58 --- Peak																																																																											
2 15870.00	47.04	74.00	-26.96	55.41	41.00	14.73	64.10 --- Peak																																																																											
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																											
Freq	Level	Line	Margin	Level	Factor	Loss Factor	Remark																																																																											
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm																																																																											
1 10580.00	47.67	68.30	-20.63	60.20	38.83	12.22	63.58 --- Peak																																																																											
2 15870.00	47.21	74.00	-26.79	55.58	41.00	14.73	64.10 --- Peak																																																																											



Mode	2																																																																																																																																																																																																																			
	LF																																																																																																																																																																																																																			
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_Full_5290MHz LF																																																																																																																																																																																																																			
ANT	CDD 1+2																																																																																																																																																																																																																			
Pol.	Horizontal						Vertical																																																																																																																																																																																																													
QPI Peak	Level (dBuV/m) Date: 2024-09-14 Frequency (MHz)						Level (dBuV/m) Date: 2024-09-14 Frequency (MHz)																																																																																																																																																																																																													
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</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><tr><td>1</td><td>30.97</td><td>24.35</td><td>40.00</td><td>-15.65</td><td>30.73</td><td>24.70</td><td>0.54</td><td>31.62</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>110.51</td><td>25.97</td><td>43.50</td><td>-17.53</td><td>39.76</td><td>17.00</td><td>1.07</td><td>31.86</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>183.26</td><td>29.38</td><td>43.50</td><td>-14.12</td><td>44.73</td><td>14.90</td><td>1.38</td><td>31.63</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>288.99</td><td>41.99</td><td>46.00</td><td>-4.01</td><td>52.68</td><td>19.06</td><td>1.77</td><td>31.52</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>348.16</td><td>40.73</td><td>46.00</td><td>-5.27</td><td>49.74</td><td>20.42</td><td>1.97</td><td>31.40</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>439.34</td><td>30.86</td><td>46.00</td><td>-15.14</td><td>37.28</td><td>22.90</td><td>2.18</td><td>31.50</td><td>---</td><td>---</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	30.97	24.35	40.00	-15.65	30.73	24.70	0.54	31.62	---	---	Peak	2	110.51	25.97	43.50	-17.53	39.76	17.00	1.07	31.86	---	---	Peak	3	183.26	29.38	43.50	-14.12	44.73	14.90	1.38	31.63	---	---	Peak	4	288.99	41.99	46.00	-4.01	52.68	19.06	1.77	31.52	---	---	Peak	5	348.16	40.73	46.00	-5.27	49.74	20.42	1.97	31.40	---	---	Peak	6	439.34	30.86	46.00	-15.14	37.28	22.90	2.18	31.50	---	---	Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</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><tr><td>1</td><td>37.76</td><td>31.78</td><td>40.00</td><td>-8.22</td><td>41.95</td><td>21.00</td><td>0.59</td><td>31.76</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>183.26</td><td>24.45</td><td>43.50</td><td>-19.05</td><td>39.80</td><td>14.90</td><td>1.38</td><td>31.63</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>287.05</td><td>32.70</td><td>46.00</td><td>-13.30</td><td>43.49</td><td>18.98</td><td>1.76</td><td>31.53</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>349.13</td><td>34.75</td><td>46.00</td><td>-11.25</td><td>43.71</td><td>20.46</td><td>1.98</td><td>31.40</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>550.89</td><td>27.63</td><td>46.00</td><td>-18.37</td><td>30.81</td><td>25.56</td><td>2.46</td><td>31.20</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>791.45</td><td>30.28</td><td>46.00</td><td>-15.72</td><td>30.10</td><td>28.38</td><td>2.92</td><td>31.12</td><td>---</td><td>---</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	37.76	31.78	40.00	-8.22	41.95	21.00	0.59	31.76	---	---	Peak	2	183.26	24.45	43.50	-19.05	39.80	14.90	1.38	31.63	---	---	Peak	3	287.05	32.70	46.00	-13.30	43.49	18.98	1.76	31.53	---	---	Peak	4	349.13	34.75	46.00	-11.25	43.71	20.46	1.98	31.40	---	---	Peak	5	550.89	27.63	46.00	-18.37	30.81	25.56	2.46	31.20	---	---	Peak	6	791.45	30.28	46.00	-15.72	30.10	28.38	2.92	31.12	---	---	Peak
		Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																																																											
Freq	Level	Line	Margin	Level	Factor	Loss	Factor																																																																																																																																																																																																													
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																																																																											
1	30.97	24.35	40.00	-15.65	30.73	24.70	0.54	31.62	---	---	Peak																																																																																																																																																																																																									
2	110.51	25.97	43.50	-17.53	39.76	17.00	1.07	31.86	---	---	Peak																																																																																																																																																																																																									
3	183.26	29.38	43.50	-14.12	44.73	14.90	1.38	31.63	---	---	Peak																																																																																																																																																																																																									
4	288.99	41.99	46.00	-4.01	52.68	19.06	1.77	31.52	---	---	Peak																																																																																																																																																																																																									
5	348.16	40.73	46.00	-5.27	49.74	20.42	1.97	31.40	---	---	Peak																																																																																																																																																																																																									
6	439.34	30.86	46.00	-15.14	37.28	22.90	2.18	31.50	---	---	Peak																																																																																																																																																																																																									
	Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																																																												
Freq	Level	Line	Margin	Level	Factor	Loss	Factor																																																																																																																																																																																																													
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																																																																											
1	37.76	31.78	40.00	-8.22	41.95	21.00	0.59	31.76	---	---	Peak																																																																																																																																																																																																									
2	183.26	24.45	43.50	-19.05	39.80	14.90	1.38	31.63	---	---	Peak																																																																																																																																																																																																									
3	287.05	32.70	46.00	-13.30	43.49	18.98	1.76	31.53	---	---	Peak																																																																																																																																																																																																									
4	349.13	34.75	46.00	-11.25	43.71	20.46	1.98	31.40	---	---	Peak																																																																																																																																																																																																									
5	550.89	27.63	46.00	-18.37	30.81	25.56	2.46	31.20	---	---	Peak																																																																																																																																																																																																									
6	791.45	30.28	46.00	-15.72	30.10	28.38	2.92	31.12	---	---	Peak																																																																																																																																																																																																									



Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11ac VHT80	100	-	-	10Hz

802.11ac VHT80

