

TEST REPORT

Product Name : WiFi module
Model Number : CDO-RL800M4-00
FCC ID : 2BN5S-2507C

Prepared for : REOLINK TECHNOLOGY PTE. LTD.
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Report Number : ENS2601190316W01704R
Date(s) of Tests : January 25, 2026 to March 3, 2026
Date of issue : March 7, 2026

1 TEST RESULT CERTIFICATION

Applicant : REOLINK TECHNOLOGY PTE. LTD.
Address : 31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818
Manufacturer : REOLINK TECHNOLOGY PTE. LTD.
Address : 31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818
EUT : WiFi module
Model Name : CDO-RL800M4-00
Trademark : N/A

Measurement Procedure Used:

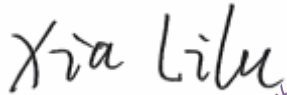
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS
IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 3(08-2023)	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, Part 15.407, IC RSS-247 Issue 3 and IC RSS-GEN, Issue 5.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : January 25, 2026 to March 3, 2026

Prepared by : 
Yu xiaolan/Editor

Reviewer : 
Xia lilu /Supervisor

Approve & Authorized Signer : 
Wang li/Manager

Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2601190316W01704R	/	Original Report



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2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product:	WiFi module
Model Number:	CDO-RL800M4-00
Test Sample S/N:	N/A
Variant Number:	N/A
Wifi Type:	Wifi 5G with 5150MHz-5250MHz Band Wifi 5G with 5250MHz-5350MHz Band Wifi 5G with 5470MHz-5725MHz Band Wifi 5G with 5725MHz-5850MHz Band
WLAN Supported:	802.11a/n/ac/ax
Data Rate :	802.11a: 54/48/36/24/12/9/6Mbps 802.11n: MCS0-MCS7 802.11ac: MCS0-MCS9 802.11ax: MCS0-MCS11
Modulation:	☒ OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n ☒ OFDM with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ac/ax
Frequency Range:	UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20)/ax(HE20) 5190-5230MHz for 802.11n(HT40)/ac(VHT40) /ax(HE40)
	UNII-2A: 5250MHz-5350MHz Band 5260-5320MHz for 802.11a/n(HT20)/ac(VHT20)/ax(HE20) 5270-5310MHz for 802.11n(HT40)/ac(VHT40)/ax(HE40)
	UNII-2C: 5470MHz-5725MHz Band 5500-5700MHz for 802.11a/n(HT20)/ac(VHT20)/ax(HE20) 5510-5670MHz for 802.11n(HT40)/ac(VHT40)/ax(HE40)
	UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20) /ax(HE20) 5755-5795MHz for 802.11n(HT40)/ac(VHT40)/ax(HE40)
TPC Function:	Not Applicable
Antenna Port:	☒ Antenna port 1
Antenna Type:	FPC Antenna
Antenna Gain:	Antenna B50: UNII-1: 3.61 dBi UNII-2A: 3.32 dBi UNII-2C: 4.20 dBi UNII-3: 4.85 dBi Antenna F10: UNII-1: 5.81 dBi UNII-2A: 5.76 dBi

	UNII-2C: 5.62 dBi UNII-3: 5.44 dBi (Note: The antenna information is provided by the customers, which will have a certain impact on the test results.)
Power supply:	DC 5.0V
Software Version:	N/A
Hardware Version:	N/A
Note: 1.For more details, please refer to the User's manual of the EUT.	



3 SUMMARY OF TEST RESULT

FCC PartClause	IC Part Clause	Test Parameter	Verdict	Remark
15.407 (a) 15.407 (e) 2.1049	RSS-247, 6.2 RSS-Gen 6.7	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (a)	RSS-247, 6.2	Maximum Conducted Output Power	PASS	
15.407 (a)	RSS-247, 6.2	PeakPower Spectral Density	PASS	
15.407 (b) 15.209 15.205	RSS-247, 6.2 RSS-Gen 8.9 RSS-Gen 8.10 RSS-Gen 6.13	RadiatedSpurious Emission	PASS	
15.207	RSS-Gen 8.8	Power Line Conducted Emission	N/A	
15.407(a) 15.203	RSS-Gen 6.8	Antenna Application	PASS	
NOTE1:N/A (Not Applicable) NOTE2:According to FCC OET KDB 789033, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.				

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for **FCC ID:2BN5S-2507C** filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021)

IC RSS-247 Issue 3(08-2023)

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D2 General UNII Test Procedures New Rules v02r01

4.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2025/5/9	1Year
AMN	Rohde & Schwarz	ENV216	101161	2025/5/9	1Year

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	2025/5/9	1Year
Pre-Amplifier	Lunar EM	LNA30M3G-25	J10100000070	2025/5/9	1Year
Bilog Antenna	Schwarzbeck	VULB9163	661	2025/5/18	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	2025/5/17	2 Year
Pre-Amplifier	SKET	LNPA_0118G-45	SK2019051801	2025/5/9	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13	2 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2025/5/9	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13	2 Year
Coaxial Cable	TIMES	NmNm-7-C15702	N/A	2025/5/9	1Year
Coaxial Cable	TIMES	HF290-NMSM-6.5M	N/A	2025/5/9	1Year
Coaxial Cable	TIMES	LMR-240 N-N	N/A	2025/5/9	1Year

For other test items:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Signal Analyzer	Agilent	N9010A	MY53470879	2025/5/10	1Year
Vector Signal Generator	Agilent	N5182B	MY53050878	2025/5/10	1Year
Analog Signal Generator	Agilent	N5171B	MY53050553	2025/5/10	1Year
RF Control Unit(Power Meter)	Tonscend	JS0806-2	\	2025/5/10	1Year
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2025/5/10	1Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 54 Mbps; 802.11n(HT20): MCS0; 802.11ac(VHT20): MCS0; 802.11n(HT40): MCS0; 802.11ac(VHT40): MCS0; 802.11ac(VHT80): MCS0;) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

☒ Wifi 5G with U-NII - 1

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220		
40	5200	48	5240		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

☒ Wifi 5G with U-NII -2A

Frequency and Channel list 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

☒ Wifi 5G with U-NII -2C

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	140	5700

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	110	5550	134	5670

☒ Wifi 5G with U-NII -3

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	N/A	N/A	159	5795

Multi-antenna correlation:

☐	Transmit Signals are Correlated
	Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi
☐	All Transmit Signals are Completely Uncorrelated
	Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]$ dBi

Directional gain = $10 \log [(10^{1.68/20} + 10^{1.86/20})^2/2]$ dBi= / dBi



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description
EMC Lab.

Accredited by CNAS

The Certificate Registration Number is L2291

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm

: EMTEK (SHENZHEN) CO., LTD.

Site Location

: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

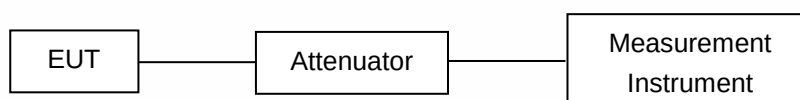
Test Parameter	Measurement Uncertainty
Frequency error	$\pm 20\text{Hz}$
Occupied Bandwidth	$\pm 0.5\text{KHz}$
Transmitter output power	$\pm 0.6\text{dB}$
Conducted spurious emissions	$\pm 3.2\text{dB}$
Radiated spurious emissions	$\pm 4.5\text{dB}$
Temperature	$\pm 1.2^{\circ}\text{C}$
Humidity	$\pm 3\%$
DC voltages	$\pm 0.25\text{V}$
Time	$\pm 1\%$

Measurement Uncertainty for a level of Confidence of 95%

7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

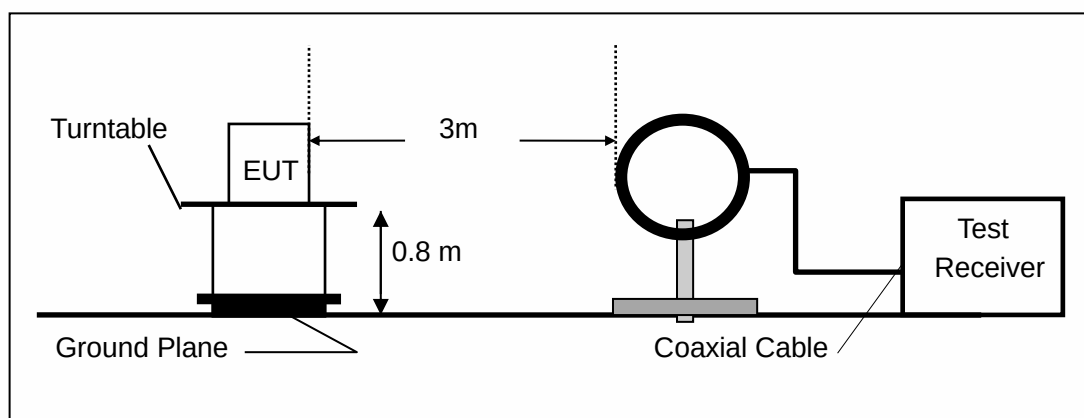
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

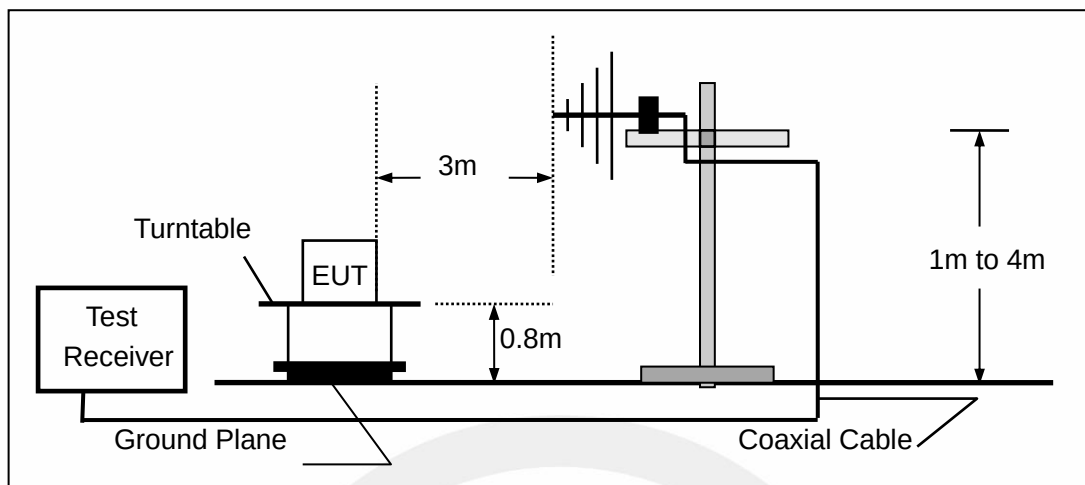
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

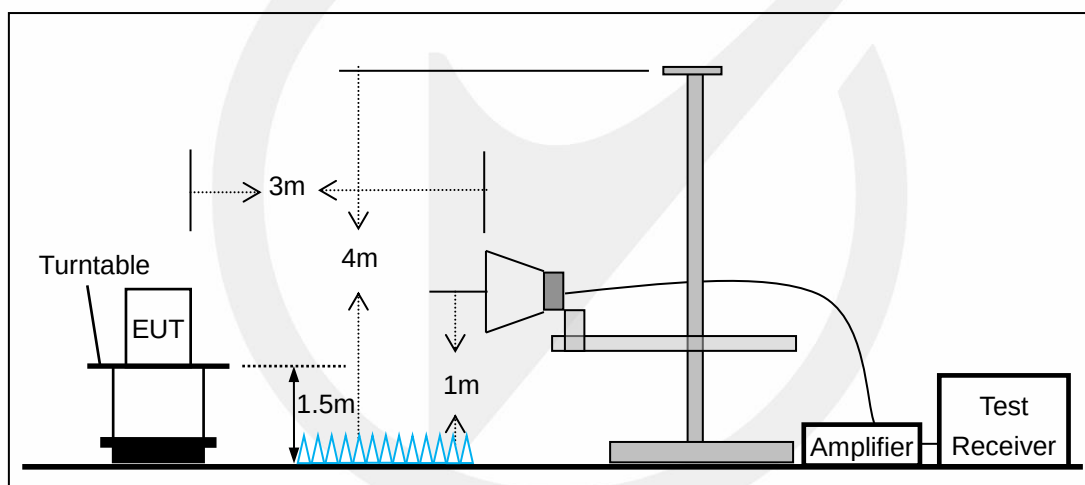
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

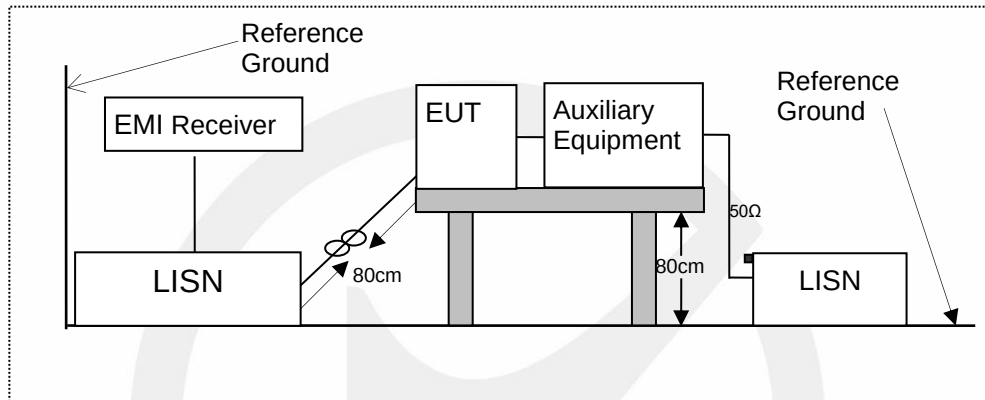


7.3 CONDUCTED EMISSION TEST SETUP

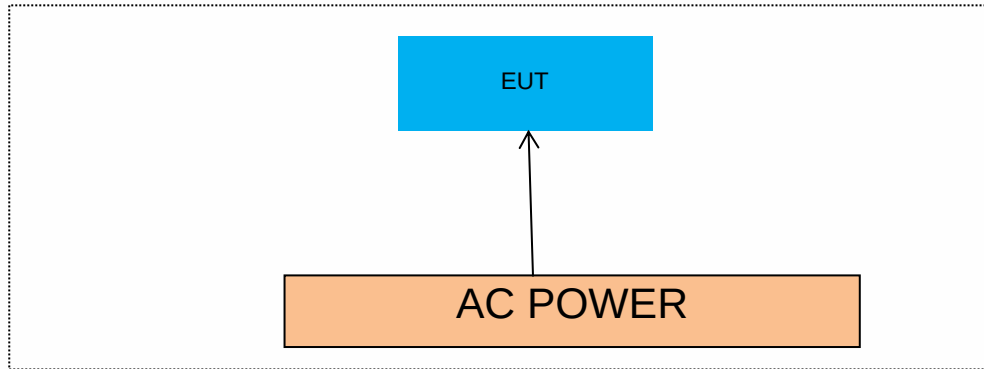
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 BANDWIDTH MEASUREMENT

8.1.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
 According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
 According to FCC Part 15.407(a)(3) for UNII Band III
 According to FCC Part 15.407(e) for UNII Band III
 According to 789033 D02 Section II(C)
 According to 789033 D02 Section II(D)
 According to RSS-Gen6.6, RSS 247, 6.2

8.1.2 Conformance Limit

The 26dB bandwidth is used to determine the conducted power limits.
 Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup

8.1.4 Test Procedure

According to 789033 D02 v02r01 section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v01r02 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E.

However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot \text{RBW}$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



8.1.5 Test Results

Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

Note: The modules of this prototype has been certified, and the data of the module refers to the original report: BL-SZ2591189-604.



8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)
According to RSS 247, 6.2

8.2.2 Conformance Limit

FCC Limit:

■ For the band 5.15-5.25 GHz

(a)(1) (i) For an outdoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

IC Limit:

■ Frequency band 5150-5250 MHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

■ Frequency band 5250-5350 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that 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.

■ Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that 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.

■ Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the power value.
- Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

Note: The modules of this prototype has been certified, and the data of the module refers to the original report: BL-SZ2591189-604.

8.3 MAXIMUM PEAK POWER DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(F)
According to RSS 247, 6.2

8.3.2 Conformance Limit

FCC Limit:

■ For the band 5.15-5.25 GHz,

(a)(1) (i) For an outdoor access point, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (ii) For an indoor access point, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

IC Limit:

- Frequency band 5150-5250 MHz
The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
- Frequency band 5250-5350 MHz
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
- Frequency bands 5470-5600 MHz and 5650-5725 MHz
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
- Frequency band 5725-5850 MHz

The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.3.4 Test Procedure

Methods refer to FCC KDB 789033

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

8.3.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

Note: The modules of this prototype has been certified, and the data of the module refers to the original report: BL-SZ2591189-604.



8.4 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.4.1 Applicable Standard

According to FCC Part 15.407 (b), 15.209, 15.205

According to 789033 D02 SectionII(G)

According to RSS-GEN 8.9, 8.10 and 6.13

8.4.2 Conformance Limit

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: 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.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section,15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

8.4.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.4.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

SetRBW=120kHz for $f < 1$ GHz(30MHz to 1GHz), 200Hz for $f < 150$ KHz(9KHz to 150KHz), 9KHz for < 30 MHz(150KHz to 30KHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2020 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximumpeak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW $\geq$ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method VB (Averaging using reduced video bandwidth): Alternative method.

RBW = 1 MHz.

Video bandwidth. • If the EUT is configured to transmit with duty cycle $\geq$ 98 percent, set $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz.

• If the EUT duty cycle is < 98 percent, set $VBW \geq 1/T$, where T is defined in section II.B.1.a).

Video bandwidth mode or display mode • The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).

• As an alternative, the analyzer may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some analyzers require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25 percent. (If a specific emission is demonstrated to be continuous—i.e., 100 percent duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged.)

■ Band edge measurements.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

8.4.5 Test Results

Temperature:	25° C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/\text{test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor

■ Antenna B50

- For Undesirable radiated Spurious Emission in U-NII - 1

Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 36: 5180MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4353.19	V	48.96	-46.27	-27	19.27
8408.43	V	58.10	-37.13	-27	10.13
17654.9	V	66.57	-28.66	-27	1.66
4230.19	H	48.65	-46.58	-27	19.58
8314.43	H	58.33	-36.90	-27	9.90
17104.9	H	67.10	-28.13	-27	1.13

Test mode: 802.11a Frequency: Channel 40: 5200MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4125.18	V	48.81	-46.42	-27	19.42
8324.43	V	58.33	-36.90	-27	9.90
17081.9	V	66.97	-28.26	-27	1.26
4344.19	H	49.79	-45.44	-27	18.44
8447.43	H	58.41	-36.82	-27	9.82
17128.9	H	67.10	-28.13	-27	1.13

Test mode: 802.11a Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4238.19	V	48.89	-46.34	-27	19.34
8310.43	V	58.64	-36.59	-27	9.59
17204.9	V	66.85	-28.38	-27	1.38
4141.18	H	49.42	-45.81	-27	18.81
8326.43	H	58.27	-36.96	-27	9.96
17235.9	H	67.11	-28.12	-27	1.12

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 36: 5180MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4353.19	V	48.96	32.82	74	54	25.04	21.18
8408.43	V	58.10	37.61	74	54	15.90	16.39
17654.9	V	66.57	50.03	74	54	7.43	3.97
4230.19	H	48.65	32.23	74	54	25.35	21.77
8314.43	H	58.33	37.90	74	54	15.67	16.10
17104.9	H	67.10	48.30	74	54	6.90	5.70

Test mode: 802.11a Frequency: Channel 40: 5200MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4125.18	V	48.81	32.33	74	54	25.19	21.67
8324.43	V	58.33	37.57	74	54	15.67	16.43
17081.9	V	66.97	48.74	74	54	7.03	5.26
4344.19	H	49.79	33.05	74	54	24.21	20.95
8447.43	H	58.41	37.21	74	54	15.59	16.79
17128.9	H	67.10	48.81	74	54	6.90	5.19

Test mode: 802.11a Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4238.19	V	48.89	32.22	74	54	25.11	21.78
8310.43	V	58.64	38.22	74	54	15.36	15.78
17204.9	V	66.85	49.81	74	54	7.15	4.19
4141.18	H	49.42	32.17	74	54	24.58	21.83
8326.43	H	58.27	38.11	74	54	15.73	15.89
17235.9	H	67.11	49.09	74	54	6.89	4.91

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode: 802.11ax(HE20)		Frequency:		Channel 36: 5180MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5139.76	H	55.91	-39.32	-27	Pass
5075.65	V	56.58	-38.65	-27	Pass

Test mode: 802.11ax(HE20)		Frequency:		Channel 48: 5240MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5360.51	H	55.49	-39.74	-27	Pass
5361.23	V	54.97	-40.26	-27	Pass

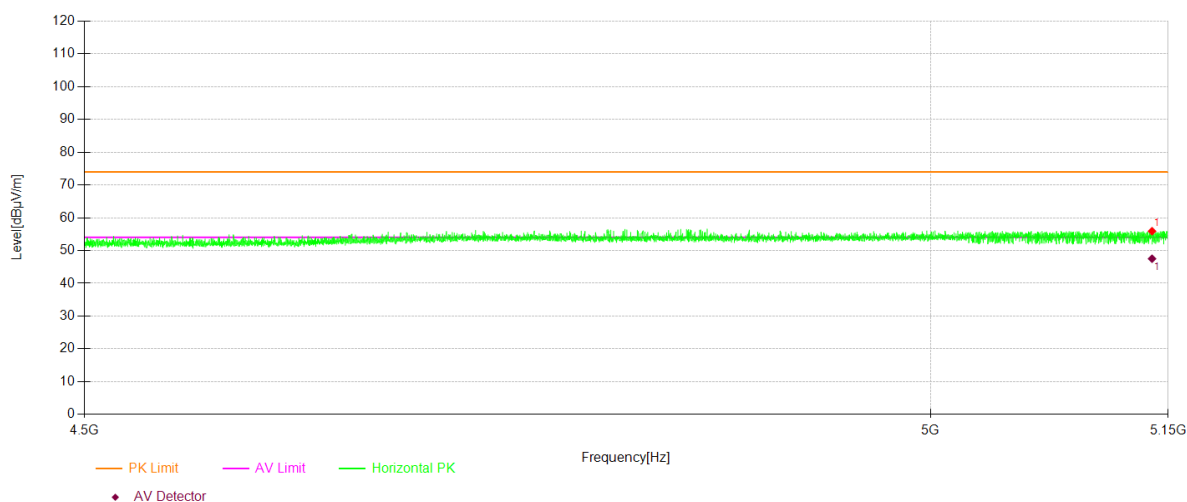
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

Test mode: 802.11ax(HE20)		Frequency:		Channel 36: 5180MHz	
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5139.76	H	55.91	74.00	47.51	54.00
5075.65	V	56.58	74.00	46.66	54.00

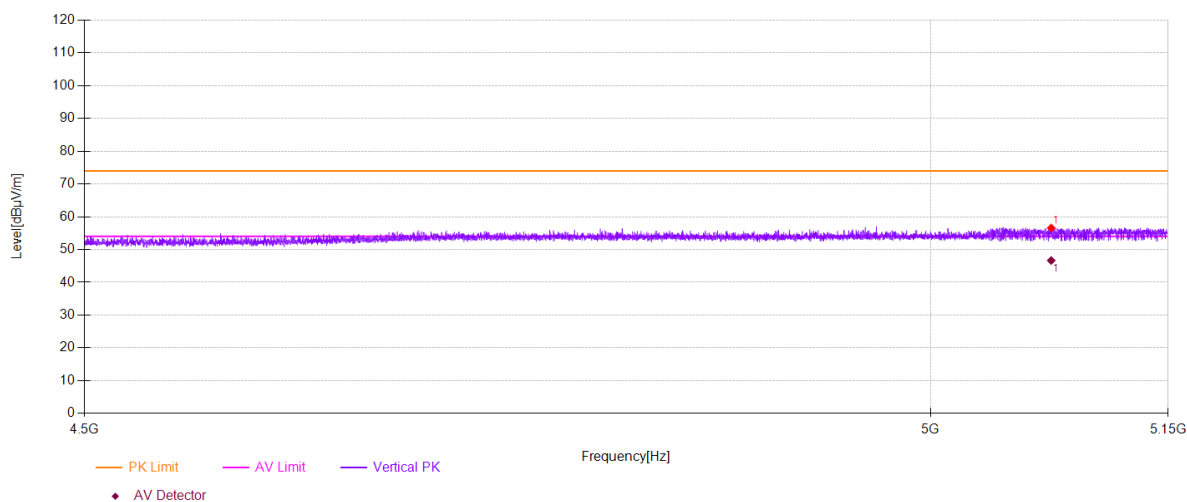
Test mode: 802.11ax(HE20)		Frequency:		Channel 48: 5240MHz	
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5360.51	H	55.49	74.00	45.44	54.00
5361.23	V	54.97	74.00	46.17	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

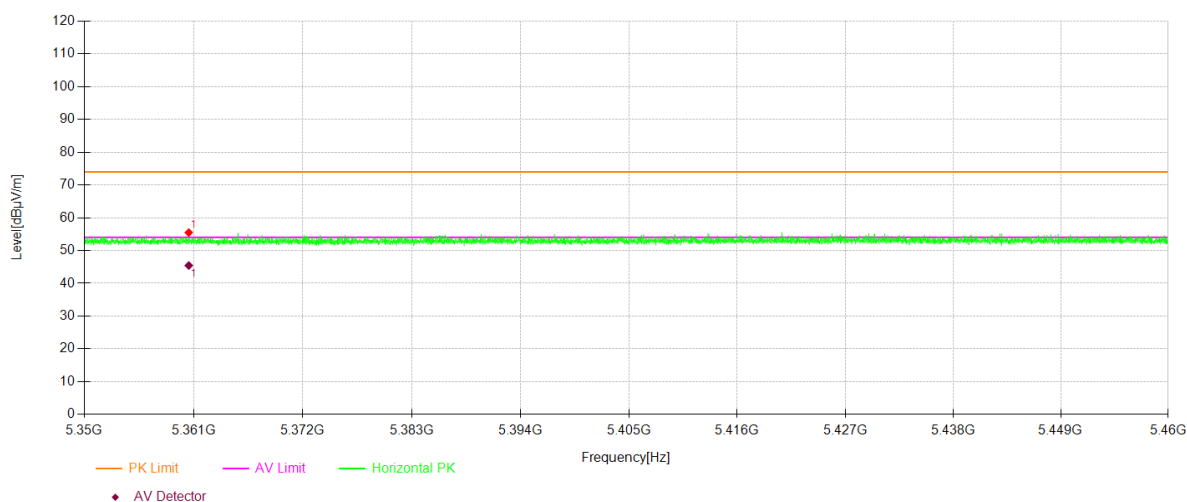
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 36: 5180MHz	Ant.Pol	H



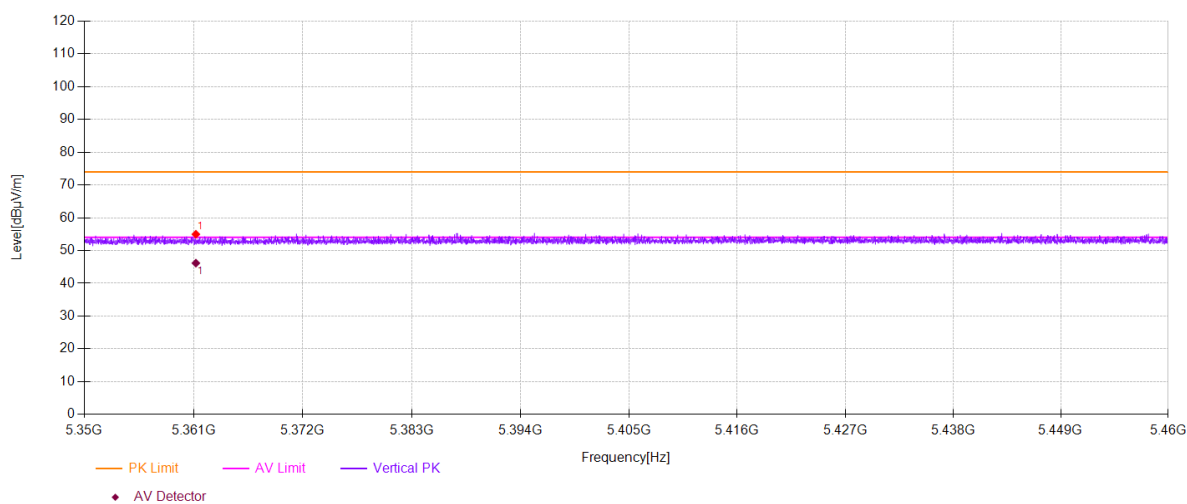
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Emission in Band Edge	
	802.11ax(HE20)	Channel 36: 5180MHz	Ant.Pol	V



U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 48: 5240MHz	Ant.Pol	H



U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 48: 5240MHz	Ant.Pol	V



■ For Undesirable Radiated Spurious Emission in U-NII -2A

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:		802.11a		Frequency:		Channel 52: 5260MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4122.18	V	49.87	-45.36	-27	18.36		
8411.43	V	57.66	-37.57	-27	10.57		
17099.9	V	66.94	-28.29	-27	1.29		
4128.18	H	49.04	-46.19	-27	19.19		
8335.43	H	57.58	-37.65	-27	10.65		
17166.9	H	67.10	-28.13	-27	1.13		

Test mode:		802.11a		Frequency:		Channel 56: 5280MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4161.18	V	48.91	-46.32	-27	19.32		
8304.42	V	58.44	-36.79	-27	9.79		
17239.9	V	67.01	-28.22	-27	1.22		
4341.19	H	50.49	-44.74	-27	17.74		
8324.43	H	59.32	-35.91	-27	8.91		
17142.9	H	67.00	-28.23	-27	1.23		

Test mode:		802.11a		Frequency:		Channel 64: 5320MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4115.18	V	48.95	-46.28	-27	19.28		
8418.43	V	58.02	-37.21	-27	10.21		
17185.9	V	67.17	-28.06	-27	1.06		
4139.18	H	48.84	-46.39	-27	19.39		
8444.43	H	58.10	-37.13	-27	10.13		
17151.9	H	66.56	-28.67	-27	1.67		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 52: 5260MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4122.18	V	49.87	32.20	74	54	24.13	21.80
8411.43	V	57.66	38.20	74	54	16.34	15.80
17099.9	V	66.94	48.47	74	54	7.06	5.53
4128.18	H	49.04	32.99	74	54	24.96	21.01
8335.43	H	57.58	38.33	74	54	16.42	15.67
17166.9	H	67.10	49.30	74	54	6.90	4.70

Test mode: 802.11a Frequency: Channel 56: 5280MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4161.18	V	48.91	32.55	74	54	25.09	21.45
8304.42	V	58.44	37.78	74	54	15.56	16.22
17239.9	V	67.01	48.86	74	54	6.99	5.14
4341.19	H	50.49	33.14	74	54	23.51	20.86
8324.43	H	59.32	38.20	74	54	14.68	15.80
17142.9	H	67.00	49.23	74	54	7.00	4.77

Test mode: 802.11a Frequency: Channel 64: 5320MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4115.18	V	48.95	32.75	74	54	25.05	21.25
8418.43	V	58.02	38.18	74	54	15.98	15.82
17185.9	V	67.17	49.12	74	54	6.83	4.88
4139.18	H	48.84	33.00	74	54	25.16	21.00
8444.43	H	58.10	37.75	74	54	15.90	16.25
17151.9	H	66.56	49.49	74	54	7.44	4.51

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode:		802.11ax(HE20)		Frequency:	Channel 52: 5260MHz
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5121.07	H	56.15	-39.08	-27	Pass
5130.98	V	55.87	-39.36	-27	Pass

Test mode:		802.11ax(HE20)		Frequency:	Channel 64: 5320MHz
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5350.37	H	58.27	-36.96	-27	Pass
5350.12	V	57.76	-37.47	-27	Pass

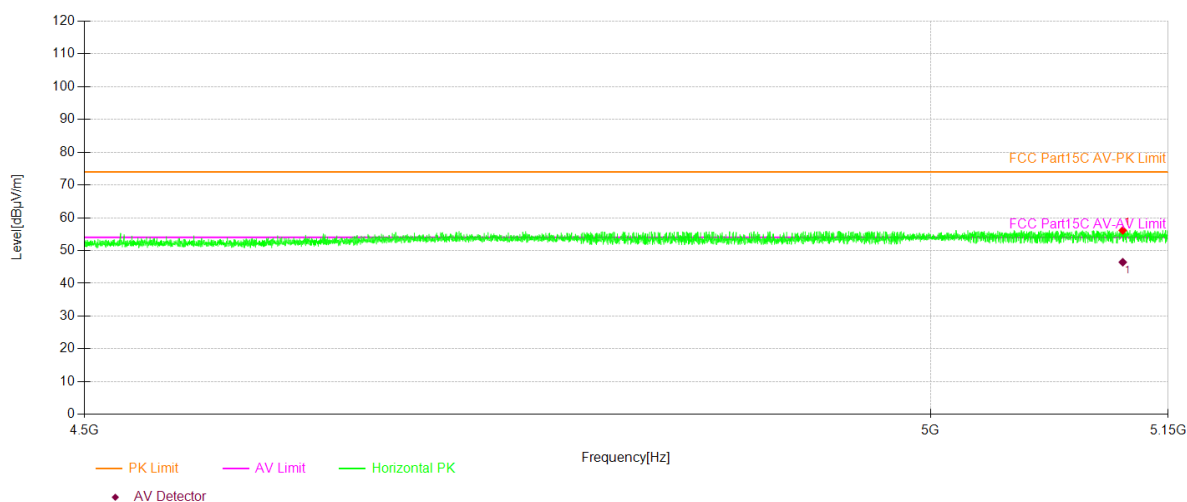
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:		802.11ax(HE20)		Frequency:	Channel 52: 5260MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5121.07	H	56.15	74.00	46.44	54.00
5130.98	V	55.87	74.00	45.31	54.00

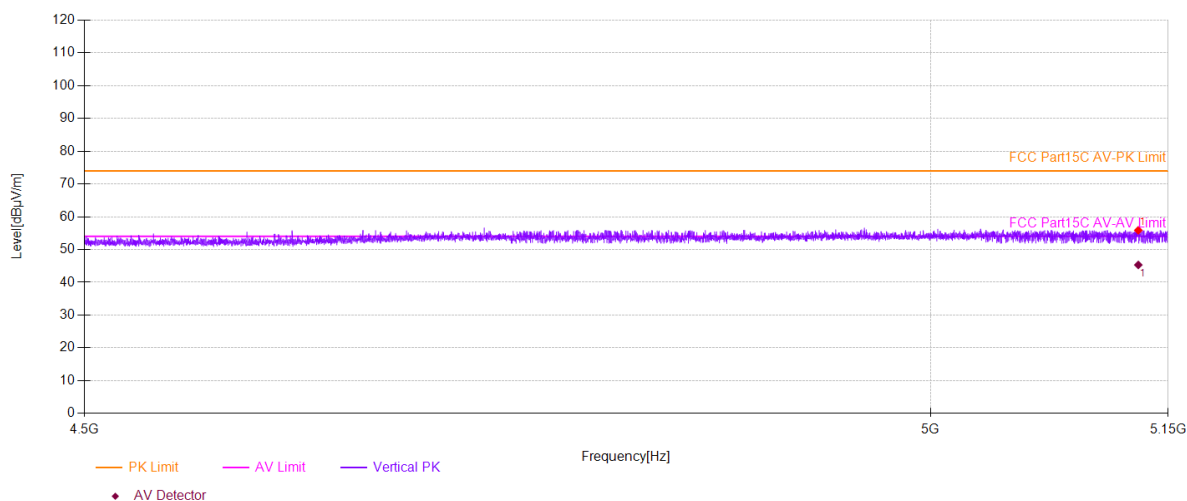
Test mode:		802.11ax(HE20)		Frequency:	Channel 64: 5320MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5350.37	H	58.27	74.00	46.51	54.00
5350.12	V	57.76	74.00	46.94	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

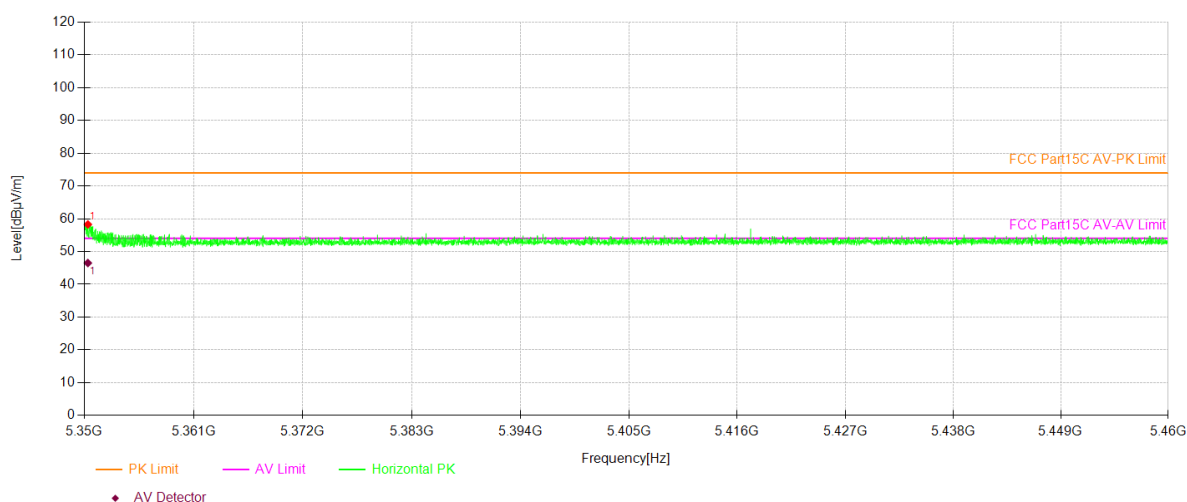
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11ax(HE20)	Channel 52: 5260MHz	Ant.Pol
			H



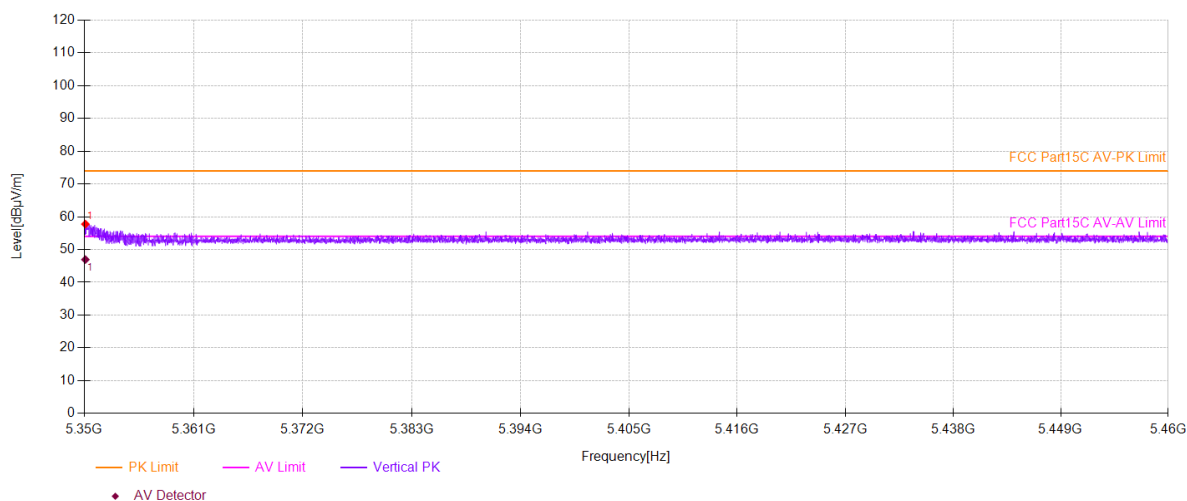
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11ax(HE20)	Channel 52: 5260MHz	Ant.Pol
			V



U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 64: 5320MHz	Ant.Pol	H



U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 64: 5320MHz	Ant.Pol	V



■ For Undesirable radiated Spurious Emission in U-NII -2C

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:		802.11a		Frequency:		Channel 100: 5500MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4136.18	V	49.14	-46.09	-27	19.09		
8325.43	V	58.49	-36.74	-27	9.74		
17103.9	V	67.16	-28.07	-27	1.07		
4129.18	H	48.98	-46.25	-27	19.25		
8296.42	H	58.21	-37.02	-27	10.02		
17137.9	H	67.21	-28.02	-27	1.02		

Test mode:		802.11a		Frequency:		Channel 116: 5580MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4304.19	V	48.89	-46.34	-27	19.34		
8335.43	V	58.21	-37.02	-27	10.02		
17195.9	V	66.73	-28.50	-27	1.50		
4223.18	H	49.57	-45.66	-27	18.66		
8363.43	H	58.29	-36.94	-27	9.94		
17879.9	H	66.54	-28.69	-27	1.69		

Test mode:		802.11a		Frequency:		Channel 140: 5700MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4122.18	V	49.21	-46.02	-27	19.02		
8334.43	V	58.10	-37.13	-27	10.13		
17247.9	V	67.05	-28.18	-27	1.18		
4122.18	H	49.68	-45.55	-27	18.55		
8425.43	H	58.24	-36.99	-27	9.99		
17142.9	H	67.08	-28.15	-27	1.15		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 100: 5500MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4136.18	V	49.14	32.40	74	54	24.86	21.60
8325.43	V	58.49	38.24	74	54	15.51	15.76
17103.9	V	67.16	48.57	74	54	6.84	5.43
4129.18	H	48.98	32.37	74	54	25.02	21.63
8296.42	H	58.21	37.35	74	54	15.79	16.65
17137.9	H	67.21	48.96	74	54	6.79	5.04

Test mode: 802.11a Frequency: Channel 116: 5580MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4304.19	V	48.89	32.89	74	54	25.11	21.11
8335.43	V	58.21	37.64	74	54	15.79	16.36
17195.9	V	66.73	49.38	74	54	7.27	4.62
4223.18	H	49.57	31.85	74	54	24.43	22.15
8363.43	H	58.29	37.88	74	54	15.71	16.12
17879.9	H	66.54	47.36	74	54	7.46	6.64

Test mode: 802.11a Frequency: Channel 140: 5700MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4122.18	V	49.21	33.03	74	54	24.79	20.97
8334.43	V	58.10	38.04	74	54	15.90	15.96
17247.9	V	67.05	49.27	74	54	6.95	4.73
4122.18	H	49.68	32.41	74	54	24.32	21.59
8425.43	H	58.24	37.68	74	54	15.76	16.32
17142.9	H	67.08	49.41	74	54	6.92	4.59

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode:		802.11ax(HE20)		Frequency:	Channel 100: 5500MHz
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5469.85	H	59.67	-35.56	-27	Pass
5469.97	V	57.90	-37.33	-27	Pass

Test mode:		802.11ax(HE20)		Frequency:	Channel 140: 5700MHz
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5725.26	H	59.23	-36.00	-27	Pass
5725.13	V	57.93	-37.30	-27	Pass

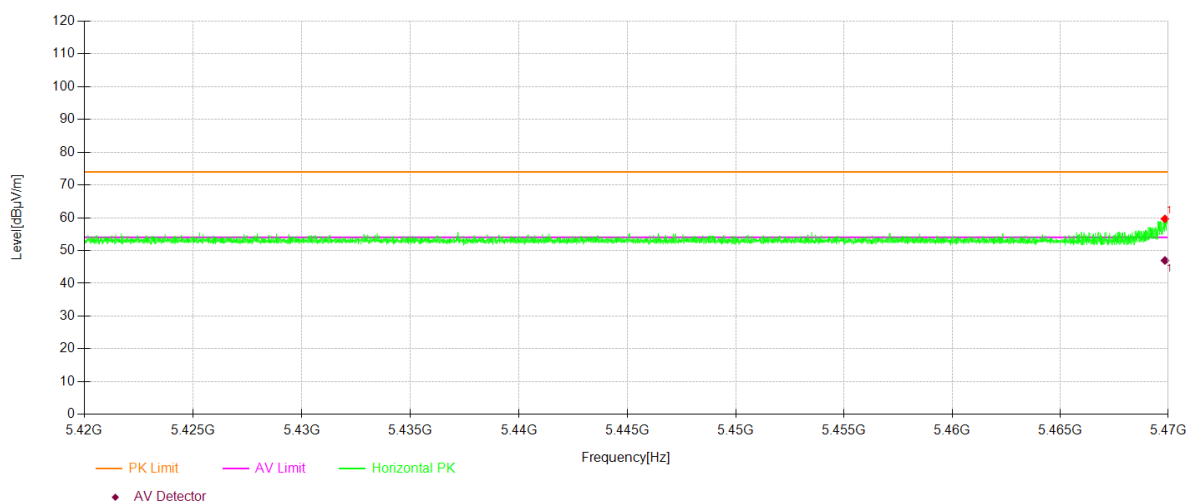
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:		802.11ax(HE20)		Frequency:	Channel 100: 5500MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5469.85	H	59.67	74.00	46.98	54.00
5469.97	V	57.90	74.00	47.02	54.00

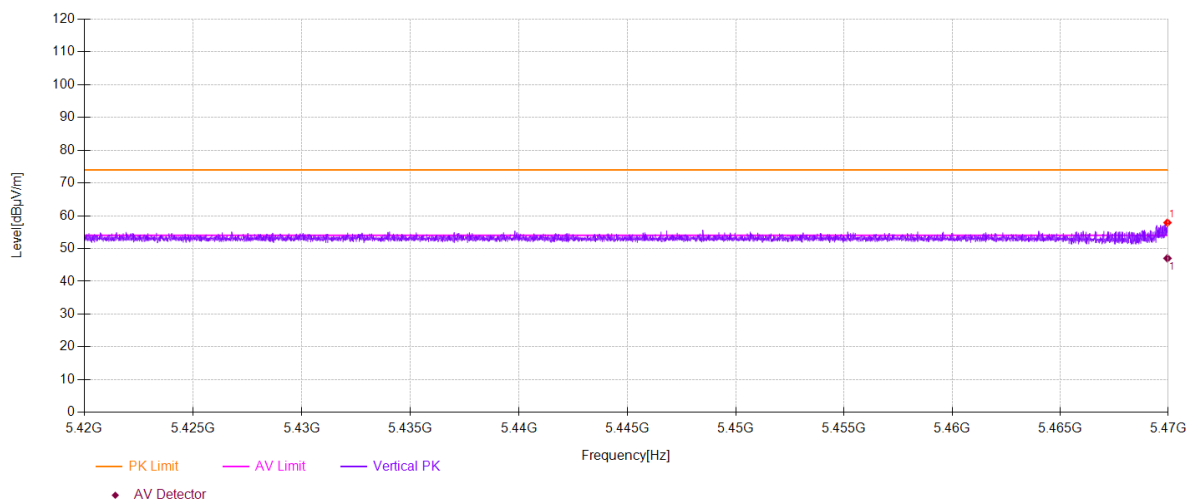
Test mode:		802.11ax(HE20)		Frequency:	Channel 140: 5700MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5725.26	H	59.23	74.00	48.24	54.00
5725.13	V	57.93	74.00	47.73	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

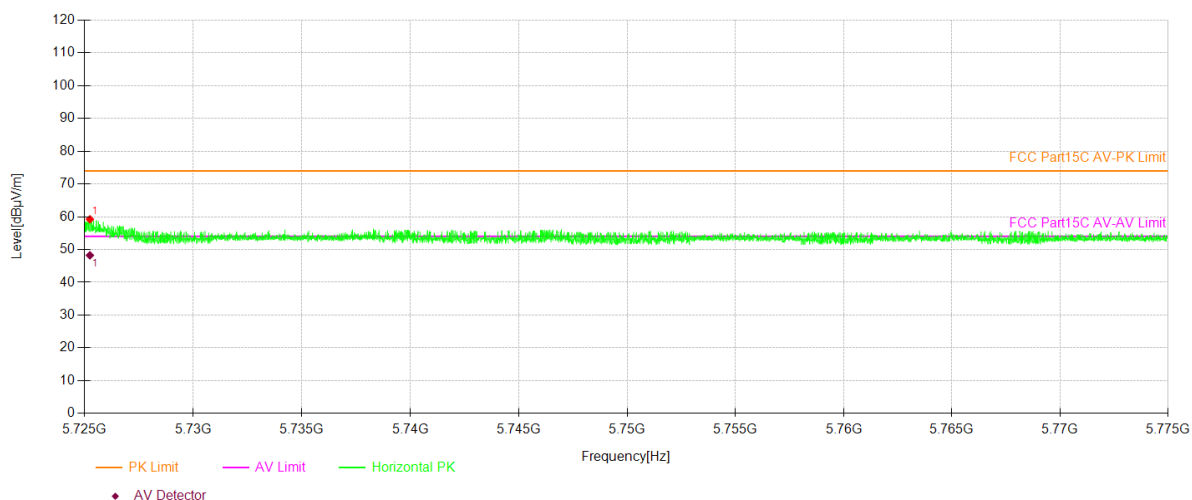
U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 100: 5500MHz	Ant.Pol	H



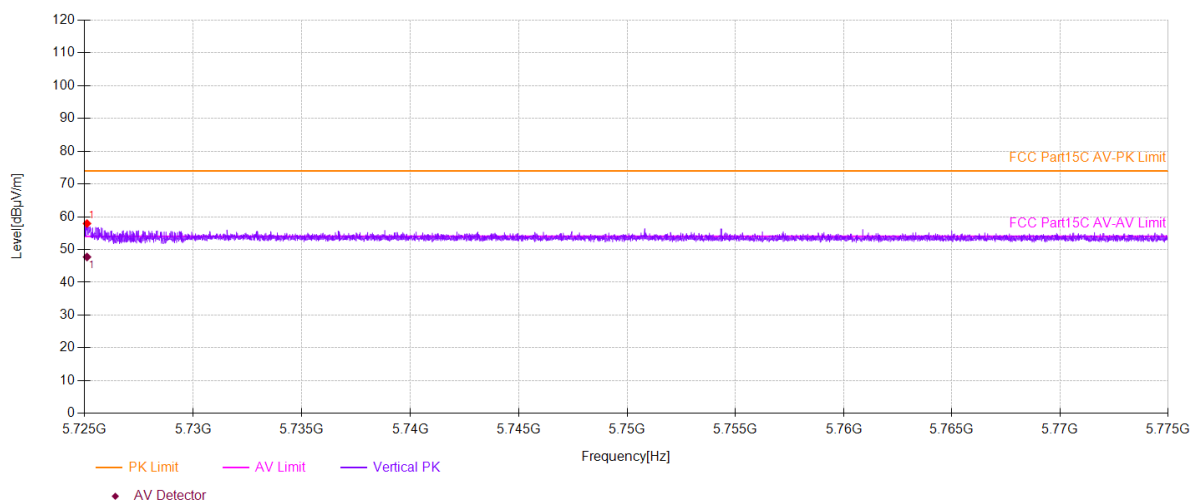
U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 100: 5500MHz	Ant.Pol	V



U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 140: 5700MHz	Ant.Pol	H



U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 140: 5700MHz	Ant.Pol	V



■ For Undesirable radiated Spurious Emission in U-NII -3

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 149: 5745MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4231.19	V	49.15	-46.08	-27	19.08
8403.43	V	58.45	-36.78	-27	9.78
17099.9	V	66.86	-28.37	-27	1.37
4123.18	H	49.08	-46.15	-27	19.15
8419.43	H	58.62	-36.61	-27	9.61
17855.9	H	66.45	-28.78	-27	1.78

Test mode: 802.11a Frequency: Channel 157: 5785MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4149.18	V	50.30	-44.93	-27	17.93
8326.43	V	58.77	-36.46	-27	9.46
17126.9	V	66.77	-28.46	-27	1.46
4329.19	H	49.53	-45.70	-27	18.70
8328.43	H	57.50	-37.73	-27	10.73
17215.9	H	66.99	-28.24	-27	1.24

Test mode: 802.11a Frequency: Channel 165: 5825MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4124.18	V	49.62	-45.61	-27	18.61
8295.42	V	58.36	-36.87	-27	9.87
17151.9	V	67.06	-28.17	-27	1.17
4192.18	H	49.40	-45.83	-27	18.83
8317.43	H	58.16	-37.07	-27	10.07
17167.9	H	66.67	-28.56	-27	1.56

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 149: 5745MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4231.19	V	49.15	31.86	74	54	24.85	22.14
8403.43	V	58.45	38.17	74	54	15.55	15.83
17099.9	V	66.86	48.76	74	54	7.14	5.24
4123.18	H	49.08	32.96	74	54	24.92	21.04
8419.43	H	58.62	38.04	74	54	15.38	15.96
17855.9	H	66.45	47.18	74	54	7.55	6.82

Test mode: 802.11a Frequency: Channel 157: 5785MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4149.18	V	50.30	32.44	74	54	23.70	21.56
8326.43	V	58.77	38.37	74	54	15.23	15.63
17126.9	V	66.77	48.65	74	54	7.23	5.35
4329.19	H	49.53	32.43	74	54	24.47	21.57
8328.43	H	57.50	38.39	74	54	16.50	15.61
17215.9	H	66.99	49.44	74	54	7.01	4.56

Test mode:: 802.11a Frequency: Channel 165: 5825MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4124.18	V	49.62	32.81	74	54	24.38	21.19
8295.42	V	58.36	37.75	74	54	15.64	16.25
17151.9	V	67.06	49.56	74	54	6.94	4.44
4192.18	H	49.40	31.95	74	54	24.60	22.05
8317.43	H	58.16	37.50	74	54	15.84	16.50
17167.9	H	66.67	48.97	74	54	7.33	5.03

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode: 802.11ax(HE20) Frequency: Channel 149: 5745MHz

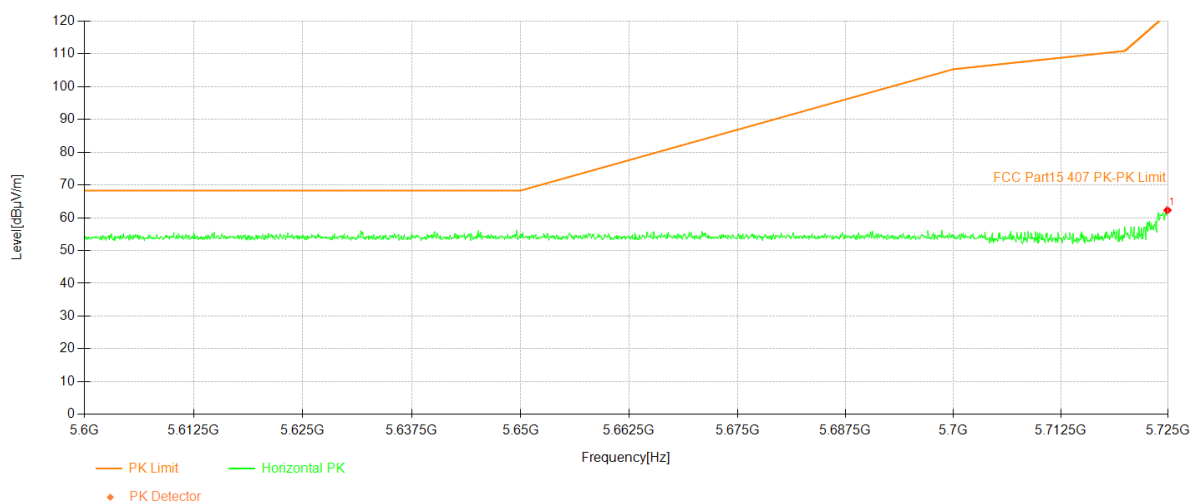
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5724.93	H	62.31	-32.92	-27	Pass
5724.68	V	64.94	-30.29	-27	Pass

Test mode: 802.11ax(HE20) Frequency: Channel 165: 5825MHz

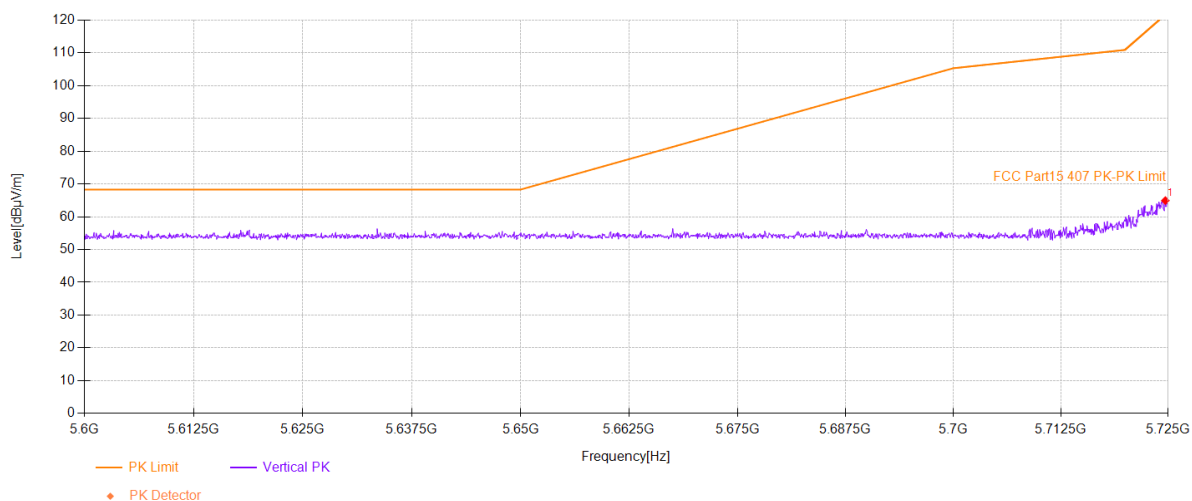
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5850.18	H	58.85	-36.38	-27	Pass
5850.31	V	61.45	-33.78	-27	Pass

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

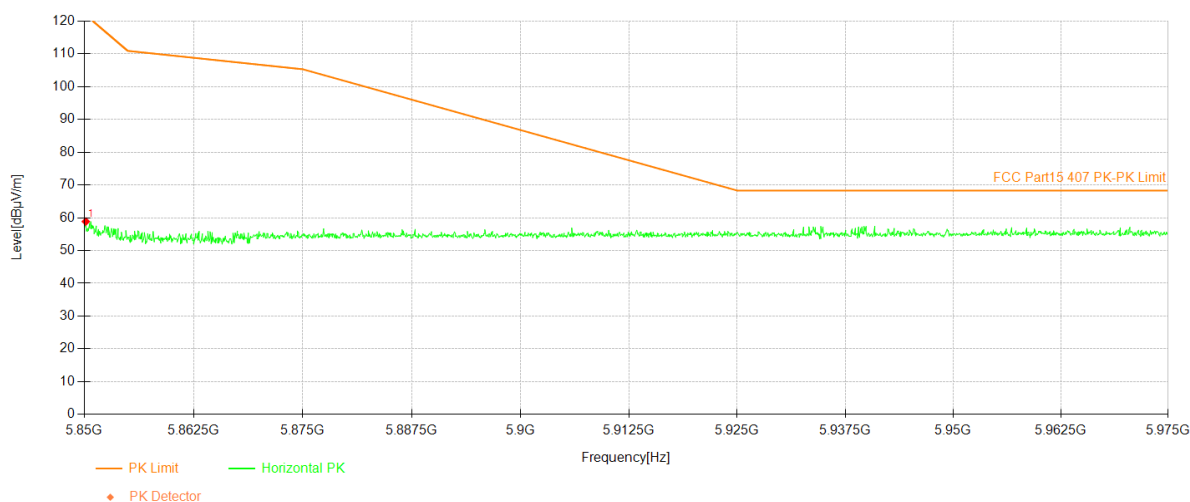
U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 149: 5745MHz	Ant.Pol	H



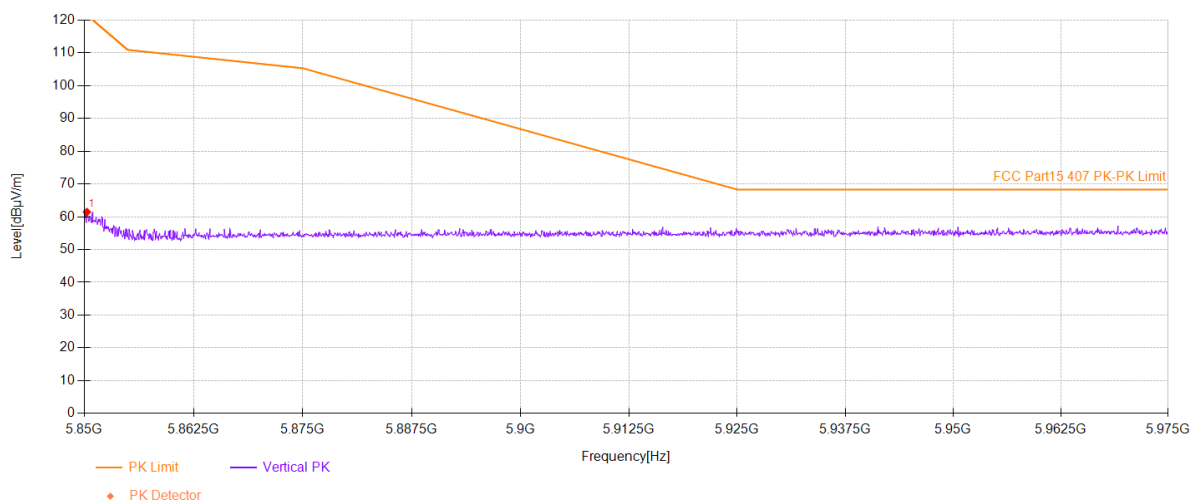
U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 149: 5745MHz	Ant.Pol	V



U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 165: 5825MHz	Ant.Pol	H

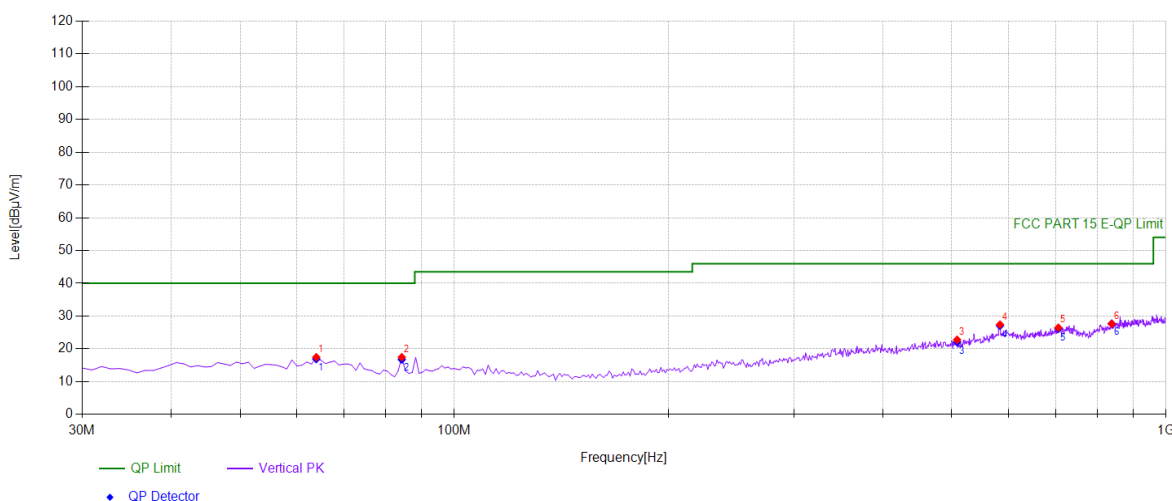


U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 165: 5825MHz	Ant.Pol	V



- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Mode:	11A 5180
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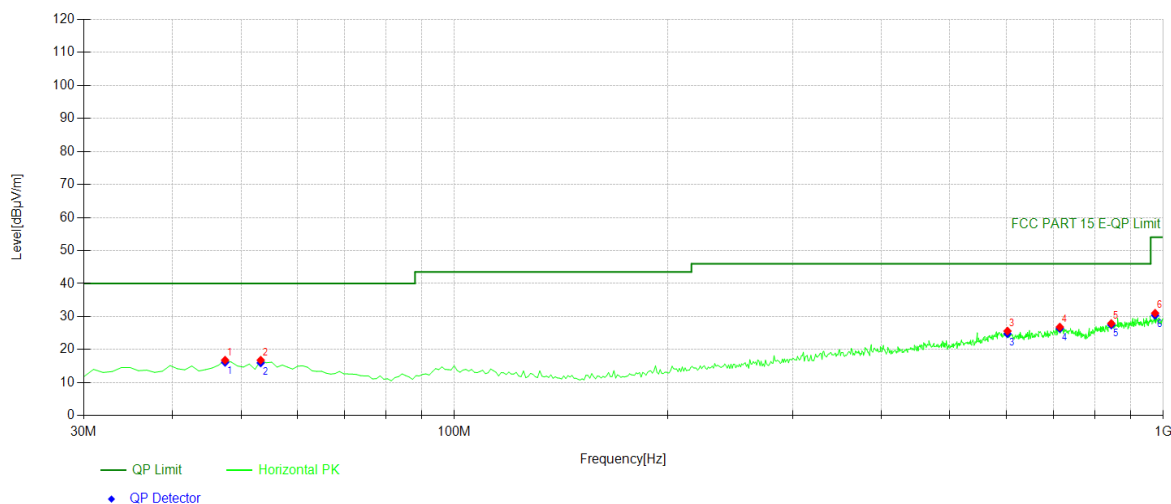
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	63.984	27.88	-10.42	17.46	PK	40.00	22.54	Vertical
2	84.3744	29.44	-11.97	17.47	PK	40.00	22.53	Vertical
3	508.6887	25.68	-2.90	22.78	PK	46.00	23.22	Vertical
4	584.4244	27.54	-0.12	27.42	PK	46.00	18.58	Vertical
5	705.7958	25.47	1.00	26.47	PK	46.00	19.53	Vertical
6	838.8188	25.54	2.14	27.68	PK	46.00	18.32	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	63.984	-10.42	16.91	40.00	23.09
2	84.3744	-11.97	16.75	40.00	23.25
3	508.6887	-2.90	22.06	46.00	23.94
4	584.4244	-0.12	27.06	46.00	18.94
5	705.7958	1.00	26.11	46.00	19.89
6	838.8188	2.14	27.68	46.00	18.32

Mode:	11A 5180
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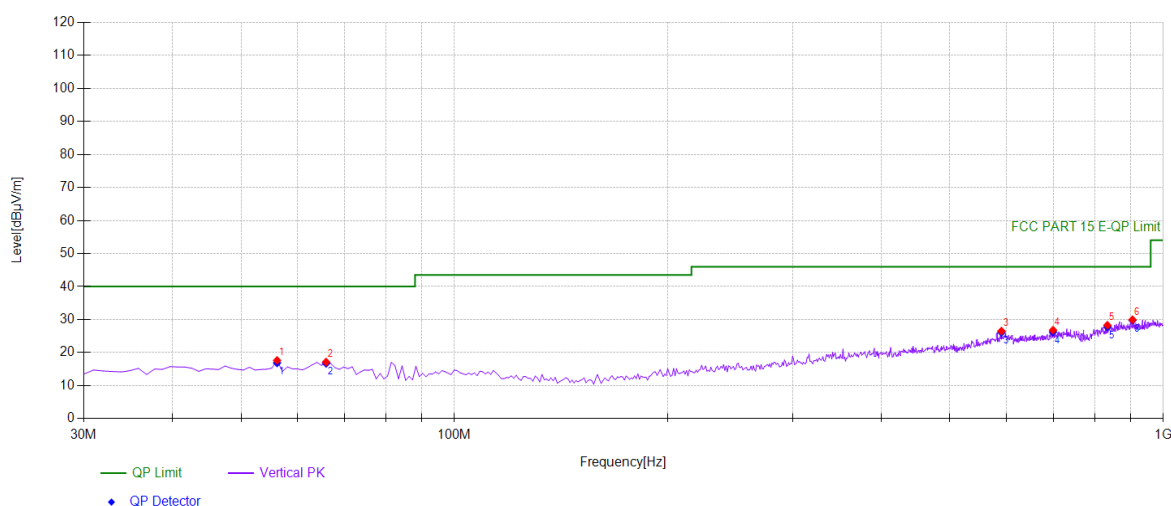
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	25.81	-9.00	16.81	PK	40.00	23.19	Horizontal
2	53.3033	25.84	-9.03	16.81	PK	40.00	23.19	Horizontal
3	602.8729	25.19	0.43	25.62	PK	46.00	20.38	Horizontal
4	714.5345	25.79	1.05	26.84	PK	46.00	19.16	Horizontal
5	844.6446	25.58	2.35	27.93	PK	46.00	18.07	Horizontal
6	973.7838	27.20	3.83	31.03	PK	54.00	22.97	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-9.00	16.14	40.00	23.86
2	53.3033	-9.03	15.98	40.00	24.02
3	602.8729	0.43	24.79	46.00	21.21
4	714.5345	1.05	26.37	46.00	19.63
5	844.6446	2.35	27.46	46.00	18.54
6	973.7838	3.83	30.39	54.00	23.61

Mode:	11A 5200
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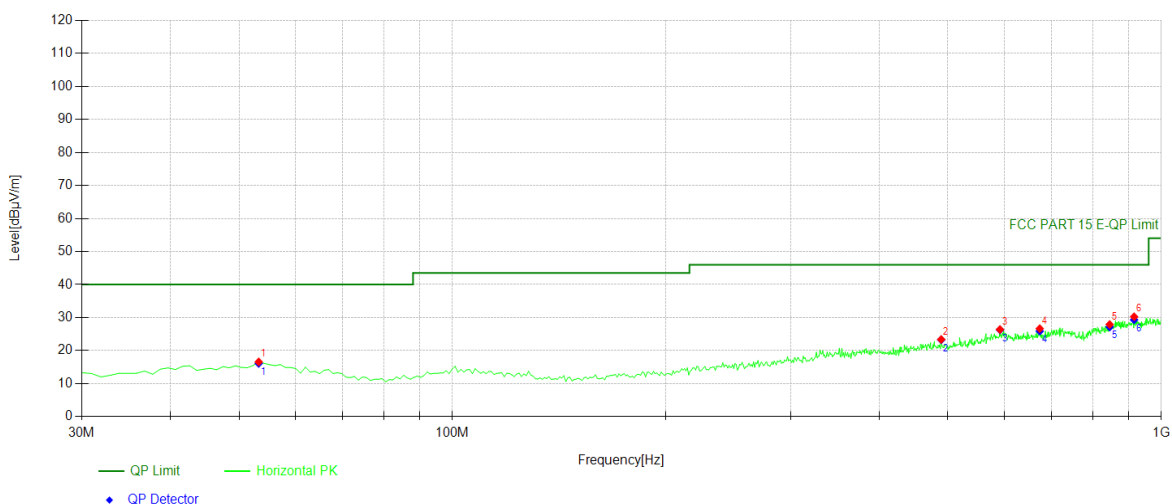
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	56.2162	27.04	-9.40	17.64	PK	40.00	22.36	Vertical
2	65.9259	27.83	-10.67	17.16	PK	40.00	22.84	Vertical
3	591.2212	26.36	0.17	26.53	PK	46.00	19.47	Vertical
4	698.999	25.95	0.86	26.81	PK	46.00	19.19	Vertical
5	833.964	26.26	2.03	28.29	PK	46.00	17.71	Vertical
6	904.8448	26.67	3.30	29.97	PK	46.00	16.03	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	56.2162	-9.40	16.88	40.00	23.12
2	65.9259	-10.67	16.76	40.00	23.24
3	591.2212	0.17	26.13	46.00	19.87
4	698.999	0.86	26.25	46.00	19.75
5	833.964	2.03	27.73	46.00	18.27
6	904.8448	3.30	29.77	46.00	16.23

Mode:	11A 5200
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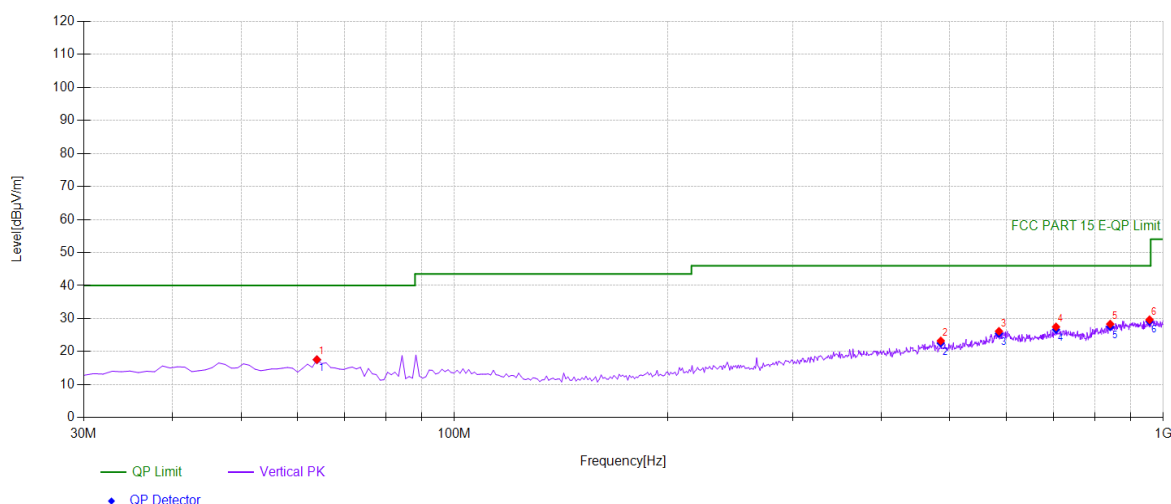
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	53.3033	25.62	-9.03	16.59	PK	40.00	23.41	Horizontal
2	489.2693	26.41	-3.02	23.39	PK	46.00	22.61	Horizontal
3	592.1922	26.18	0.22	26.40	PK	46.00	19.60	Horizontal
4	673.7538	26.54	0.12	26.66	PK	46.00	19.34	Horizontal
5	845.6156	25.52	2.39	27.91	PK	46.00	18.09	Horizontal
6	915.5255	26.84	3.42	30.26	PK	46.00	15.74	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	53.3033	-9.03	16.11	40.00	23.89
2	489.2693	-3.02	23.27	46.00	22.73
3	592.1922	0.22	26.28	46.00	19.72
4	673.7538	0.12	25.89	46.00	20.11
5	845.6156	2.39	27.14	46.00	18.86
6	915.5255	3.42	29.33	46.00	16.67

Mode:	11A 5240
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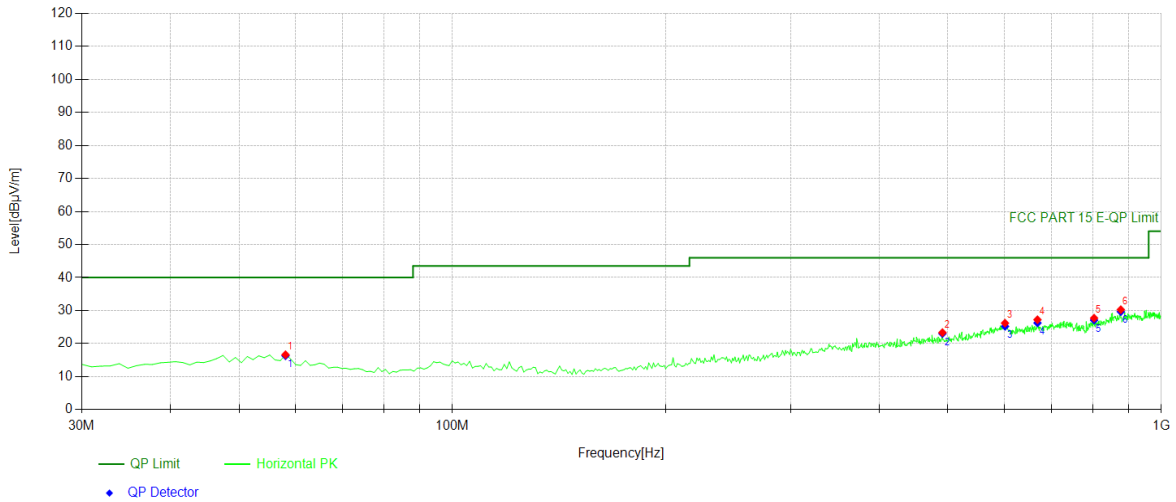
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	63.984	28.00	-10.42	17.58	PK	40.00	22.42	Vertical
2	485.3854	26.29	-3.03	23.26	PK	46.00	22.74	Vertical
3	586.3664	26.20	-0.04	26.16	PK	46.00	19.84	Vertical
4	705.7958	26.50	1.00	27.50	PK	46.00	18.50	Vertical
5	841.7317	26.12	2.23	28.35	PK	46.00	17.65	Vertical
6	956.3063	25.94	3.72	29.66	PK	46.00	16.34	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	63.984	-10.42	17.53	40.00	22.47
2	485.3854	-3.03	22.57	46.00	23.43
3	586.3664	-0.04	25.47	46.00	20.53
4	705.7958	1.00	26.65	46.00	19.35
5	841.7317	2.23	27.50	46.00	18.50
6	956.3063	3.72	29.17	46.00	16.83

Mode:	11A 5240
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Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	58.1582	26.32	-9.67	16.65	PK	40.00	23.35	Horizontal
2	491.2112	26.38	-3.03	23.35	PK	46.00	22.65	Horizontal
3	601.9019	25.71	0.49	26.20	PK	46.00	19.80	Horizontal
4	668.8989	27.13	0.11	27.24	PK	46.00	18.76	Horizontal
5	803.8639	26.21	1.51	27.72	PK	46.00	18.28	Horizontal
6	876.6867	27.38	2.90	30.28	PK	46.00	15.72	Horizontal

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	58.1582	-9.67	16.32	40.00	23.68
2	491.2112	-3.03	23.02	46.00	22.98
3	601.9019	0.49	25.23	46.00	20.77
4	668.8989	0.11	26.27	46.00	19.73
5	803.8639	1.51	27.11	46.00	18.89
6	876.6867	2.90	29.67	46.00	16.33

■ Antenna F10

- For Undesirable radiated Spurious Emission in U-NII - 1

Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 36: 5180MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4300.19	V	48.48	-46.75	-27	19.75
8347.43	V	57.88	-37.35	-27	10.35
16932.9	V	65.96	-29.27	-27	2.27
4138.18	H	49.43	-45.80	-27	18.80
8356.43	H	57.81	-37.42	-27	10.42
17068.9	H	65.79	-29.44	-27	2.44

Test mode: 802.11a Frequency: Channel 40: 5200MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4337.19	V	49.78	-45.45	-27	18.45
8337.43	V	58.38	-36.85	-27	9.85
16881.9	V	65.87	-29.36	-27	2.36
4136.18	H	50.00	-45.23	-27	18.23
8361.43	H	58.38	-36.85	-27	9.85
16970.9	H	65.98	-29.25	-27	2.25

Test mode: 802.11a Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4218.18	V	50.04	-45.19	-27	18.19
8326.43	V	58.00	-37.23	-27	10.23
17584.9	V	65.36	-29.87	-27	2.87
4342.19	H	49.27	-45.96	-27	18.96
8307.42	H	57.68	-37.55	-27	10.55
17006.9	H	65.88	-29.35	-27	2.35

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 36: 5180MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4300.19	V	48.48	32.14	74	54	25.52	21.86
8347.43	V	57.88	37.66	74	54	16.12	16.34
16932.9	V	65.96	48.87	74	54	8.04	5.13
4138.18	H	49.43	32.52	74	54	24.57	21.48
8356.43	H	57.81	37.60	74	54	16.19	16.40
17068.9	H	65.79	48.77	74	54	8.21	5.23

Test mode: 802.11a Frequency: Channel 40: 5200MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4337.19	V	49.78	32.82	74	54	24.22	21.18
8337.43	V	58.38	38.30	74	54	15.62	15.70
16881.9	V	65.87	48.49	74	54	8.13	5.51
4136.18	H	50.00	32.82	74	54	24.00	21.18
8361.43	H	58.38	38.26	74	54	15.62	15.74
16970.9	H	65.98	48.54	74	54	8.02	5.46

Test mode: 802.11a Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4218.18	V	50.04	31.79	74	54	23.96	22.21
8326.43	V	58.00	37.62	74	54	16.00	16.38
17584.9	V	65.36	49.98	74	54	8.64	4.02
4342.19	H	49.27	33.07	74	54	24.73	20.93
8307.42	H	57.68	38.08	74	54	16.32	15.92
17006.9	H	65.88	49.61	74	54	8.12	4.39

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode: 802.11ax(HE20)		Frequency:		Channel 36: 5180MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5077.68	H	55.85	-39.38	-27	Pass
5146.01	V	55.99	-39.24	-27	Pass

Test mode: 802.11ax(HE20)		Frequency:		Channel 48: 5240MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5355.85	H	55.43	-39.80	-27	Pass
5352.84	V	54.78	-40.45	-27	Pass

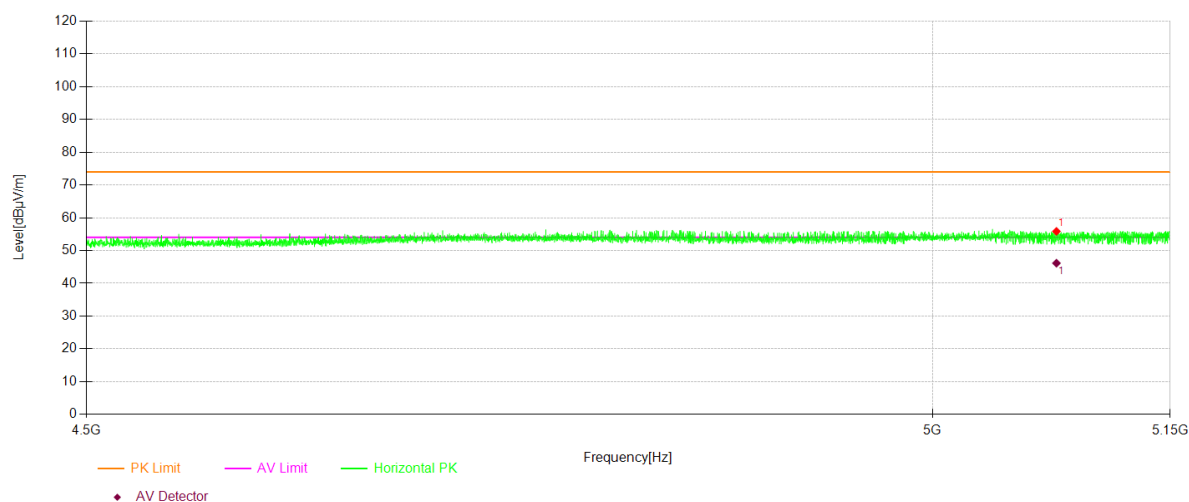
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11ax(HE20)		Frequency:		Channel 36: 5180MHz	
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5077.68	H	55.85	74.00	46.15	54.00
5146.01	V	55.99	74.00	45.18	54.00

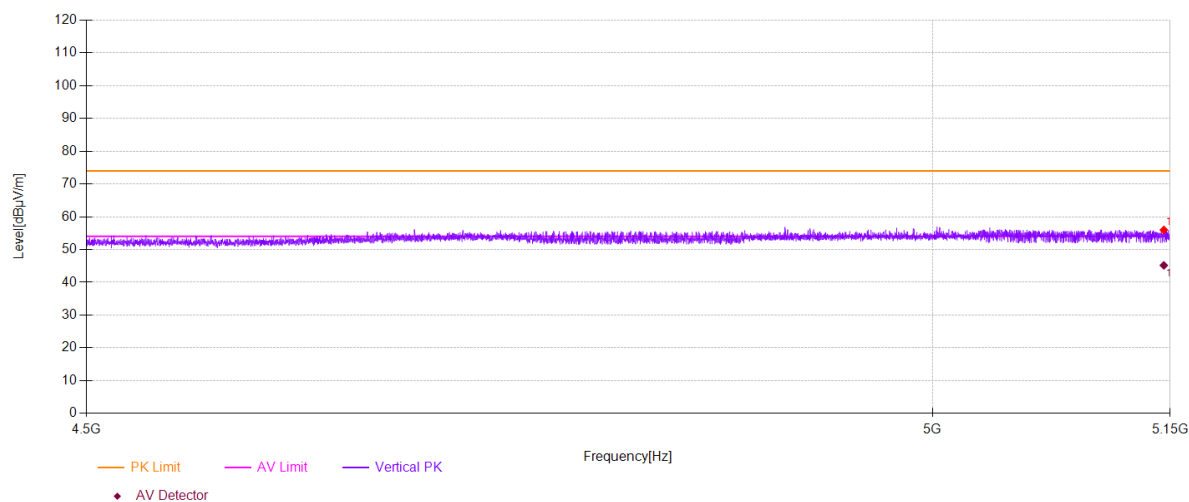
Test mode: 802.11ax(HE20)		Frequency:		Channel 48: 5240MHz	
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5355.85	H	55.43	74.00	45.50	54.00
5352.84	V	54.78	74.00	45.98	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

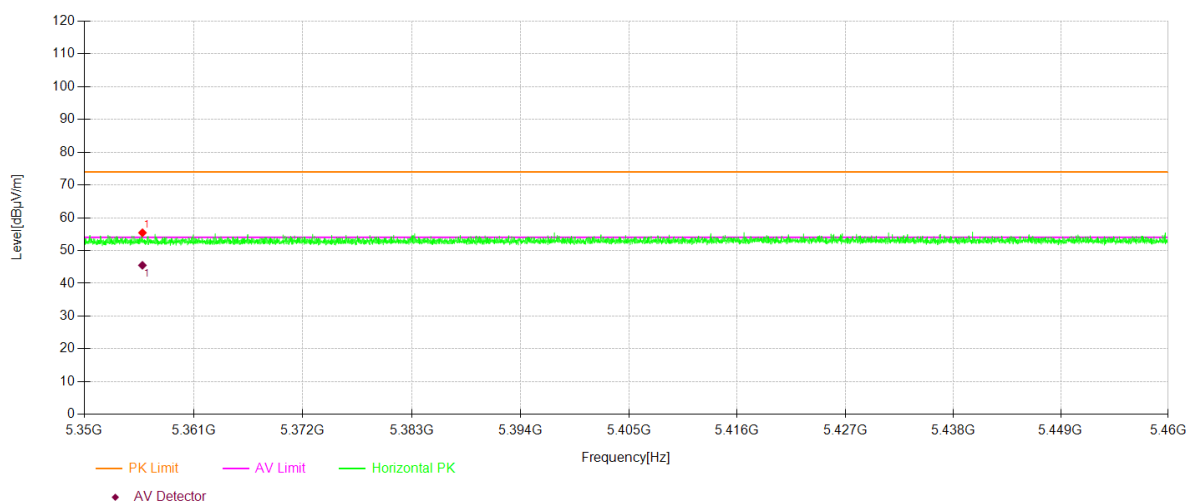
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 36: 5180MHz	Ant.Pol	H



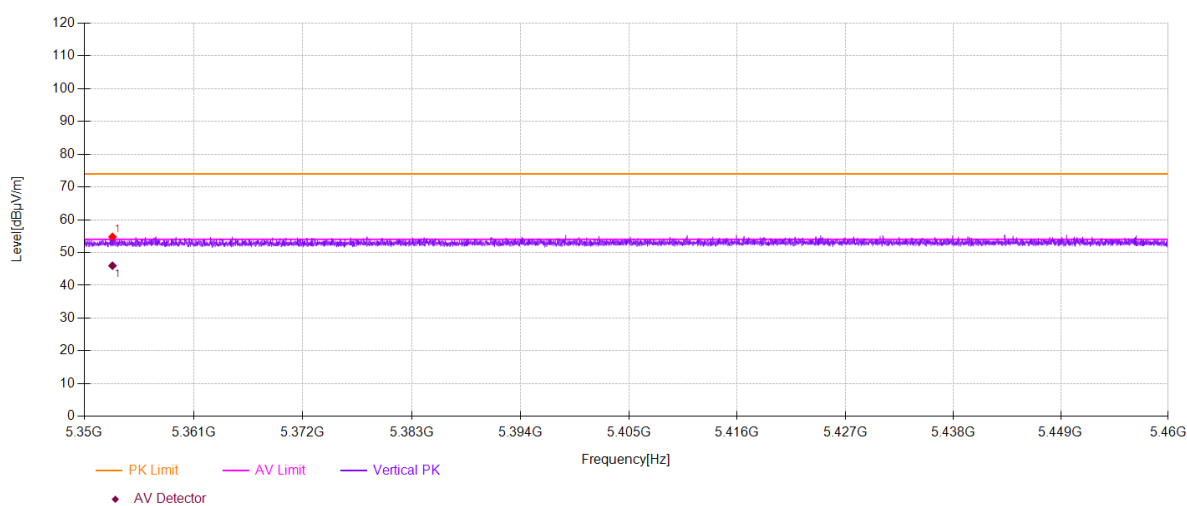
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Emission in Band Edge	
	802.11ax(HE20)	Channel 36: 5180MHz	Ant.Pol	V



U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 48: 5240MHz	Ant.Pol	H



U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 48: 5240MHz	Ant.Pol	V



■ For Undesirable Radiated Spurious Emission in U-NII -2A

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:		802.11a		Frequency:		Channel 52: 5260MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4353.19	V	49.22	-46.01	-27	19.01		
8343.43	V	58.38	-36.85	-27	9.85		
16891.9	V	65.87	-29.36	-27	2.36		
4128.18	H	49.04	-46.19	-27	19.19		
8335.43	H	57.58	-37.65	-27	10.65		
17166.9	H	67.10	-28.13	-27	1.13		

Test mode:		802.11a		Frequency:		Channel 56: 5280MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4319.19	V	50.73	-44.50	-27	17.50		
8385.43	V	57.68	-37.55	-27	10.55		
16884.9	V	66.18	-29.05	-27	2.05		
4308.19	H	49.49	-45.74	-27	18.74		
8317.43	H	57.83	-37.40	-27	10.40		
17088.9	H	65.71	-29.52	-27	2.52		

Test mode:		802.11a		Frequency:		Channel 64: 5320MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4115.18	V	48.95	-46.28	-27	19.28		
8418.43	V	58.02	-37.21	-27	10.21		
17185.9	V	67.17	-28.06	-27	1.06		
4336.19	H	49.19	-46.04	-27	19.04		
8326.43	H	57.60	-37.63	-27	10.63		
16946.9	H	65.95	-29.28	-27	2.28		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 52: 5260MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4353.19	V	49.22	33.31	74	54	24.78	20.69
8343.43	V	58.38	38.47	74	54	15.62	15.53
16891.9	V	65.87	48.69	74	54	8.13	5.31
4128.18	H	49.04	32.99	74	54	24.96	21.01
8335.43	H	57.58	38.33	74	54	16.42	15.67
17166.9	H	67.10	49.30	74	54	6.90	4.70

Test mode: 802.11a Frequency: Channel 56: 5280MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4319.19	V	50.73	33.12	74	54	23.27	20.88
8385.43	V	57.68	37.99	74	54	16.32	16.01
16884.9	V	66.18	48.07	74	54	7.82	5.93
4308.19	H	49.49	32.90	74	54	24.51	21.10
8317.43	H	57.83	38.26	74	54	16.17	15.74
17088.9	H	65.71	48.67	74	54	8.29	5.33

Test mode: 802.11a Frequency: Channel 64: 5320MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4115.18	V	48.95	32.75	74	54	25.05	21.25
8418.43	V	58.02	38.18	74	54	15.98	15.82
17185.9	V	67.17	49.12	74	54	6.83	4.88
4336.19	H	49.19	33.22	74	54	24.81	20.78
8326.43	H	57.60	38.44	74	54	16.40	15.56
16946.9	H	65.95	48.83	74	54	8.05	5.17

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode:		802.11ax(HE20)		Frequency:	Channel 52: 5260MHz
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5069.48	H	56.26	-38.97	-27	Pass
5105.39	V	55.86	-39.37	-27	Pass

Test mode:		802.11ax(HE20)		Frequency:	Channel 64: 5320MHz
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5350.59	H	57.34	-37.89	-27	Pass
5350.26	V	58.77	-36.46	-27	Pass

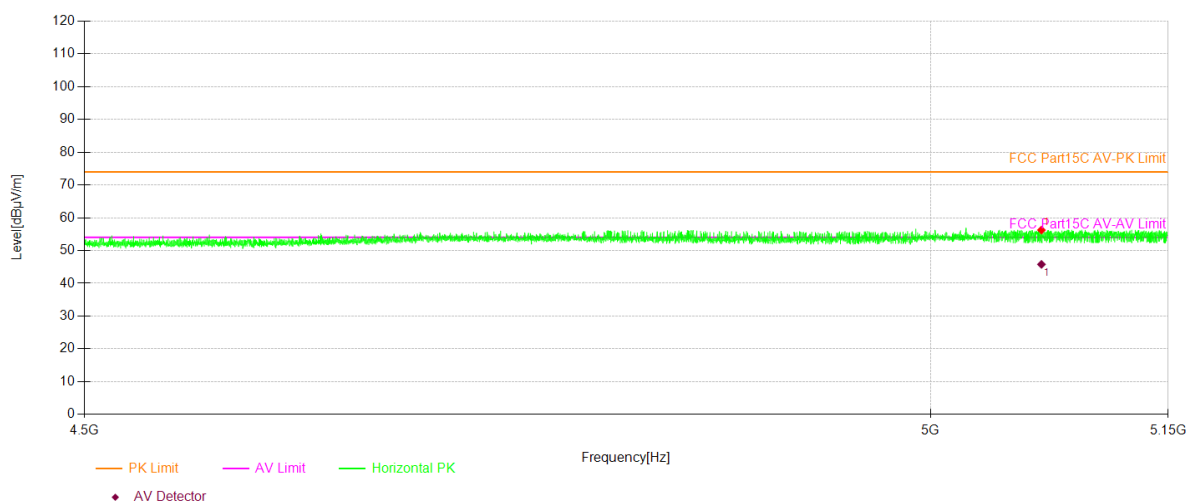
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:		802.11ax(HE20)		Frequency:	Channel 52: 5260MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5069.48	H	56.26	74.00	45.79	54.00
5105.39	V	55.86	74.00	46.01	54.00

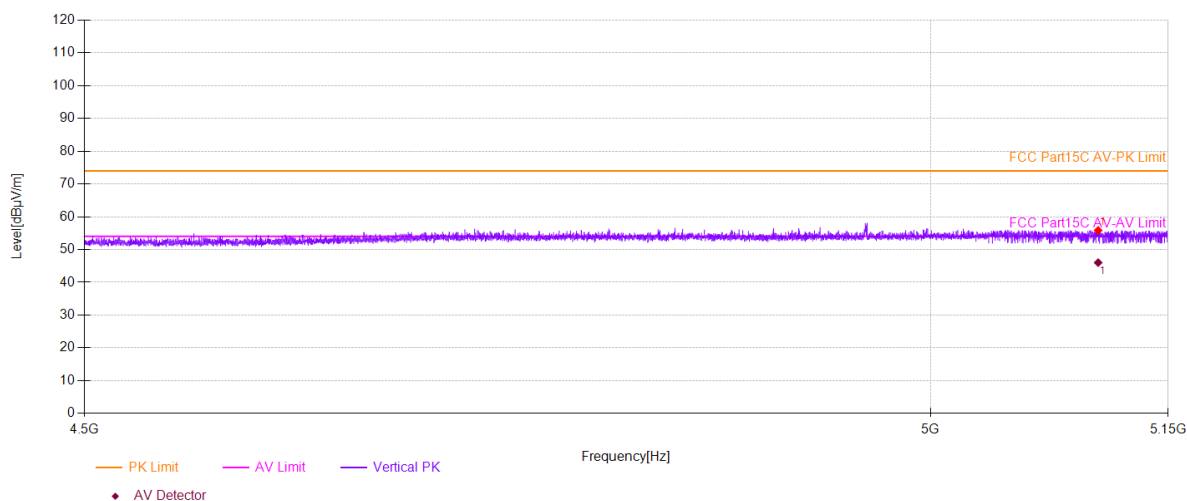
Test mode:		802.11ax(HE20)		Frequency:	Channel 64: 5320MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5350.59	H	57.34	74.00	46.17	54.00
5350.26	V	58.77	74.00	46.84	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

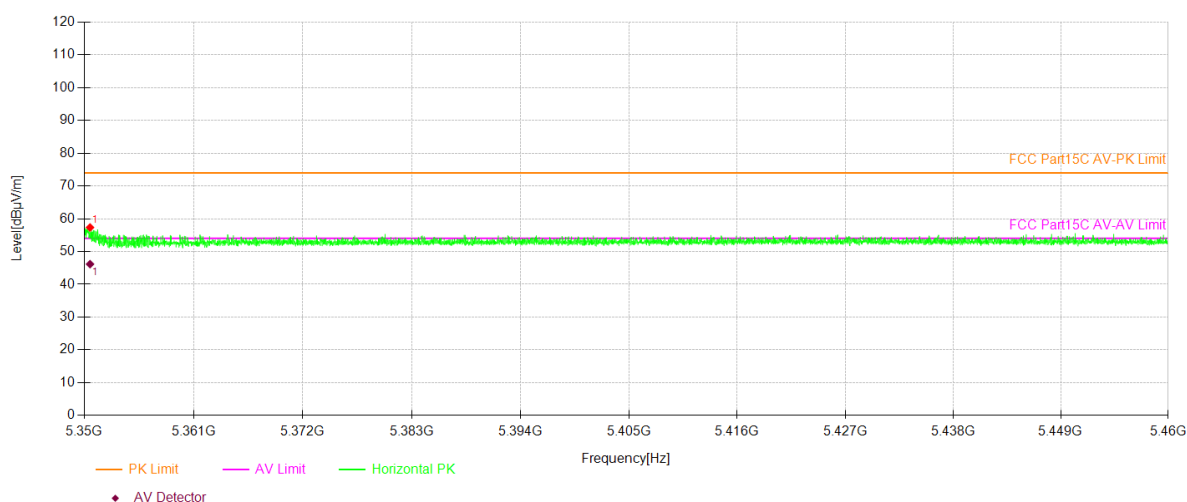
U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 52: 5260MHz	Ant.Pol	H



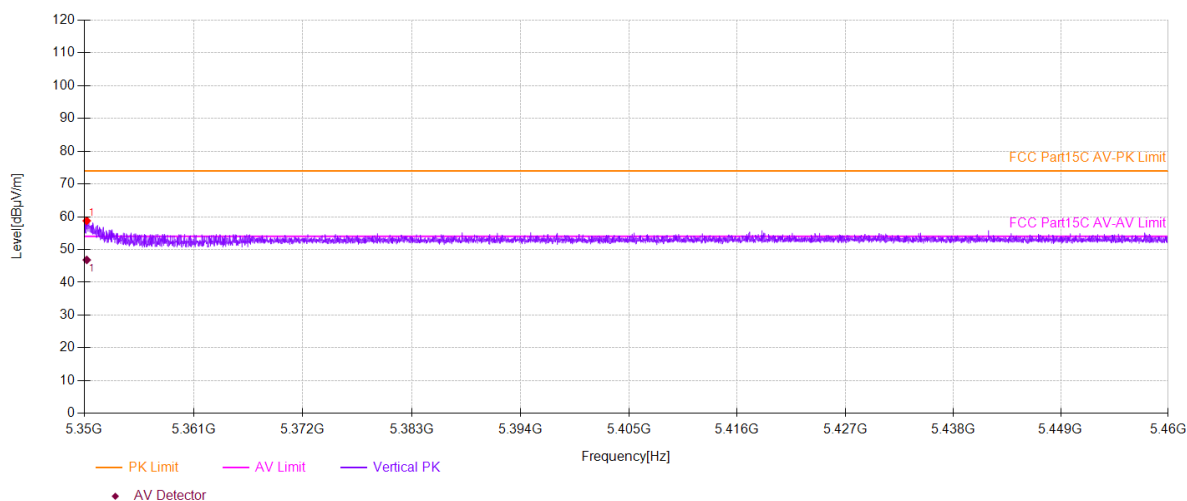
U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 52: 5260MHz	Ant.Pol	V



U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 64: 5320MHz	Ant.Pol	H



U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 64: 5320MHz	Ant.Pol	V



■ For Undesirable radiated Spurious Emission in U-NII -2C

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:		802.11a		Frequency:		Channel 100: 5500MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4327.19	V	49.80	-45.43	-27	18.43		
8328.43	V	58.37	-36.86	-27	9.86		
16849.9	V	66.10	-29.13	-27	2.13		
4120.18	H	49.36	-45.87	-27	18.87		
8324.43	H	58.17	-37.06	-27	10.06		
16968.9	H	65.89	-29.34	-27	2.34		

Test mode:		802.11a		Frequency:		Channel 116: 5580MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4334.19	V	48.64	-46.59	-27	19.59		
8313.43	V	58.31	-36.92	-27	9.92		
16992.9	V	65.88	-29.35	-27	2.35		
4328.19	H	48.86	-46.37	-27	19.37		
8364.43	H	57.67	-37.56	-27	10.56		
16830.9	H	65.37	-29.86	-27	2.86		

Test mode:		802.11a		Frequency:		Channel 140: 5700MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
4121.18	V	48.73	-46.50	-27	19.50		
8329.43	V	58.16	-37.07	-27	10.07		
16929.9	V	65.81	-29.42	-27	2.42		
4344.19	H	48.96	-46.27	-27	19.27		
8336.43	H	57.78	-37.45	-27	10.45		
16906.9	H	65.57	-29.66	-27	2.66		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 100: 5500MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4327.19	V	49.80	32.61	74	54	24.20	21.39
8328.43	V	58.37	38.20	74	54	15.63	15.80
16849.9	V	66.10	48.05	74	54	7.90	5.95
4120.18	H	49.36	33.07	74	54	24.64	20.93
8324.43	H	58.17	38.49	74	54	15.83	15.51
16968.9	H	65.89	49.02	74	54	8.11	4.98

Test mode: 802.11a Frequency: Channel 116: 5580MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4334.19	V	48.64	33.08	74	54	25.36	20.92
8313.43	V	58.31	38.17	74	54	15.69	15.83
16992.9	V	65.88	49.02	74	54	8.12	4.98
4328.19	H	48.86	33.16	74	54	25.14	20.84
8364.43	H	57.67	38.38	74	54	16.33	15.62
16830.9	H	65.37	47.58	74	54	8.63	6.42

Test mode: 802.11a Frequency: Channel 140: 5700MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4121.18	V	48.73	32.24	74	54	25.27	21.76
8329.43	V	58.16	38.19	74	54	15.84	15.81
16929.9	V	65.81	48.97	74	54	8.19	5.03
4344.19	H	48.96	32.66	74	54	25.04	21.34
8336.43	H	57.78	37.81	74	54	16.22	16.19
16906.9	H	65.57	48.78	74	54	8.43	5.22

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode:		802.11ax(HE20)		Frequency:	Channel 100: 5500MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5469.30	H	57.52	-36.00	-27	Pass
5469.88	V	58.63	-37.30	-27	Pass

Test mode:		802.11ax(HE20)		Frequency:	Channel 140: 5700MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5725.07	H	57.39	-30.17	-27	Pass
5725.13	V	58.50	-34.65	-27	Pass

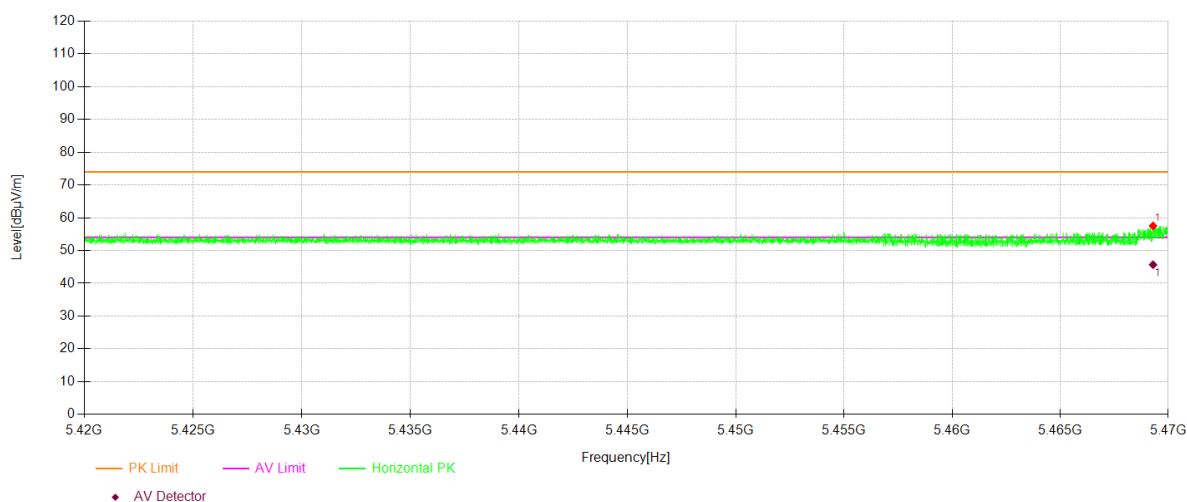
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:		802.11ax(HE20)		Frequency:	Channel 100: 5500MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5469.30	H	57.52	74.00	45.68	54.00
5469.88	V	58.63	74.00	45.98	54.00

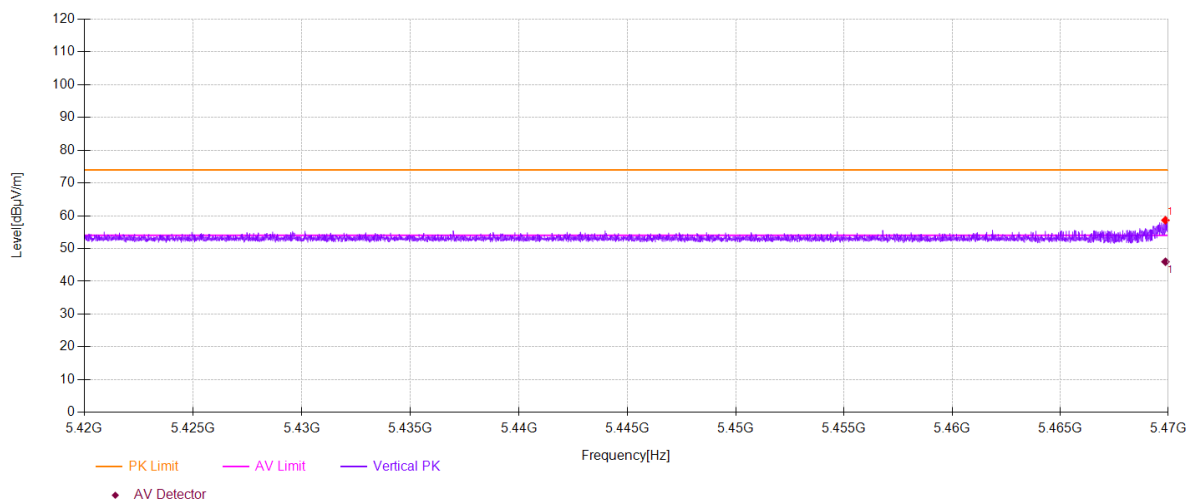
Test mode:		802.11ax(HE20)		Frequency:	Channel 140: 5700MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5725.07	H	57.39	74.00	46.51	54.00
5725.13	V	58.50	74.00	47.24	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

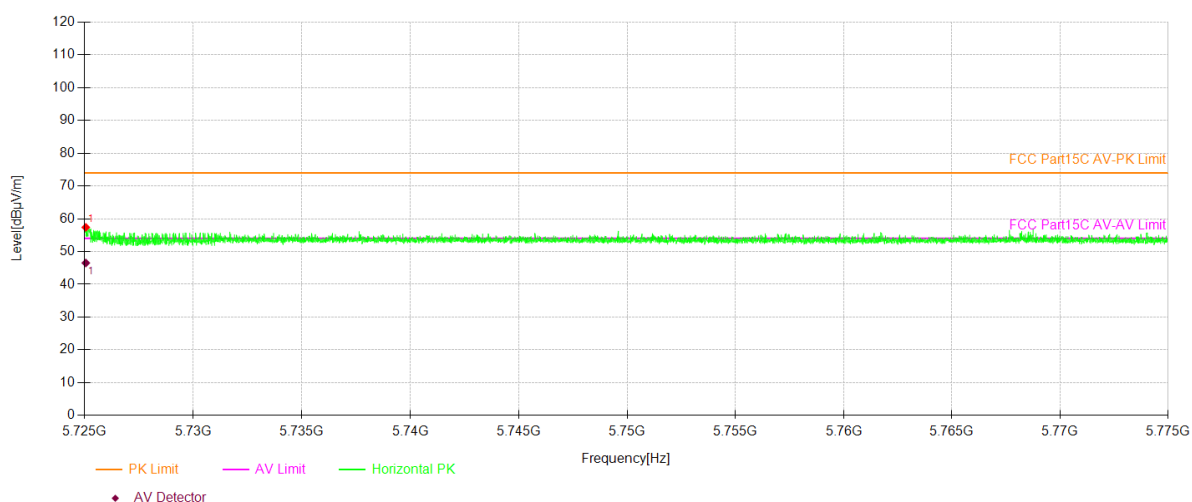
U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 100: 5500MHz	Ant.Pol	H



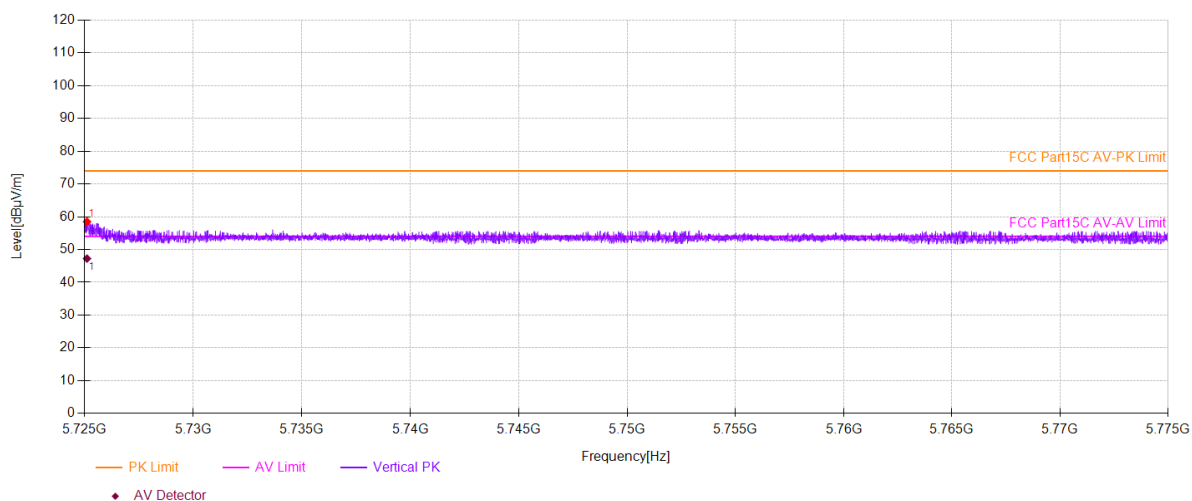
U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 100: 5500MHz	Ant.Pol	V



U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 140: 5700MHz	Ant.Pol	H



U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 140: 5700MHz	Ant.Pol	V



■ For Undesirable radiated Spurious Emission in U-NII -3

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 149: 5745MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4275.19	V	50.13	-45.10	-27	18.10
8404.43	V	57.77	-37.46	-27	10.46
17116.9	V	65.81	-29.42	-27	2.42
4545.20	H	50.60	-44.63	-27	17.63
8368.43	H	59.06	-36.17	-27	9.17
16376.9	H	67.17	-28.06	-27	1.06

Test mode: 802.11a Frequency: Channel 157: 5785MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
3586.15	V	49.38	-45.85	-27	18.85
8333.43	V	58.84	-36.39	-27	9.39
16709.9	V	67.49	-27.74	-27	0.74
3775.16	H	49.84	-45.39	-27	18.39
7436.37	H	55.67	-39.56	-27	12.56
16873.9	H	67.48	-27.75	-27	0.75

Test mode: 802.11a Frequency: Channel 165: 5825MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4656.21	V	50.41	-44.82	-27	17.82
11107.59	V	62.60	-32.63	-27	5.63
16640.9	V	67.00	-28.23	-27	1.23
7413.37	H	55.39	-39.84	-27	12.84
11118.59	H	62.37	-32.86	-27	5.86
17406.9	H	66.97	-28.26	-27	1.26

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 149: 5745MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4275.19	V	50.13	31.99	74	54	23.87	22.01
8404.43	V	57.77	37.64	74	54	16.23	16.36
17116.9	V	65.81	48.43	74	54	8.19	5.57
4545.20	H	50.60	33.92	74	54	23.40	20.08
8368.43	H	59.06	37.75	74	54	14.94	16.25
16376.9	H	67.17	47.60	74	54	6.83	6.40

Test mode: 802.11a Frequency: Channel 157: 5785MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
3586.15	V	49.38	32.34	74	54	24.62	21.66
8333.43	V	58.84	38.50	74	54	15.16	15.50
16709.9	V	67.49	46.78	74	54	6.51	7.22
3775.16	H	49.84	32.41	74	54	24.16	21.59
7436.37	H	55.67	35.34	74	54	18.33	18.66
16873.9	H	67.48	48.23	74	54	6.52	5.77

Test mode:: 802.11a Frequency: Channel 165: 5825MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4656.21	V	50.41	34.19	74	54	23.59	19.81
11107.59	V	62.60	44.62	74	54	11.40	9.38
16640.9	V	67.00	46.59	74	54	7.00	7.41
7413.37	H	55.39	40.27	74	54	18.61	13.73
11118.59	H	62.37	44.38	74	54	11.63	9.62
17406.9	H	66.97	49.11	74	54	7.03	4.89

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11ax(HE20)) result recorded was report as below:

Test mode: 802.11ax(HE20) Frequency: Channel 149: 5745MHz

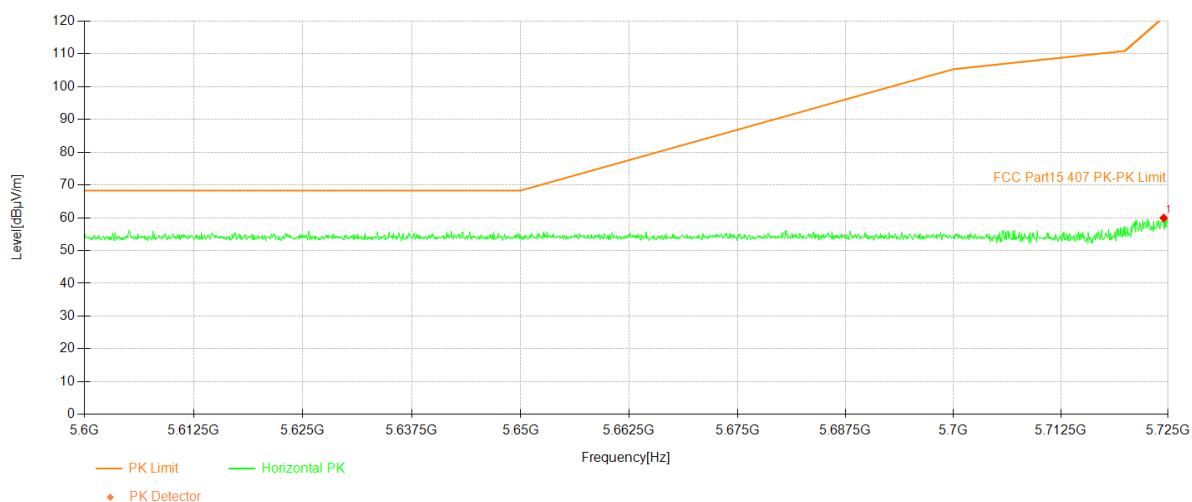
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5724.49	H	59.92	-35.31	-27	Pass
5724.87	V	62.73	-32.50	-27	Pass

Test mode: 802.11ax(HE20) Frequency: Channel 165: 5825MHz

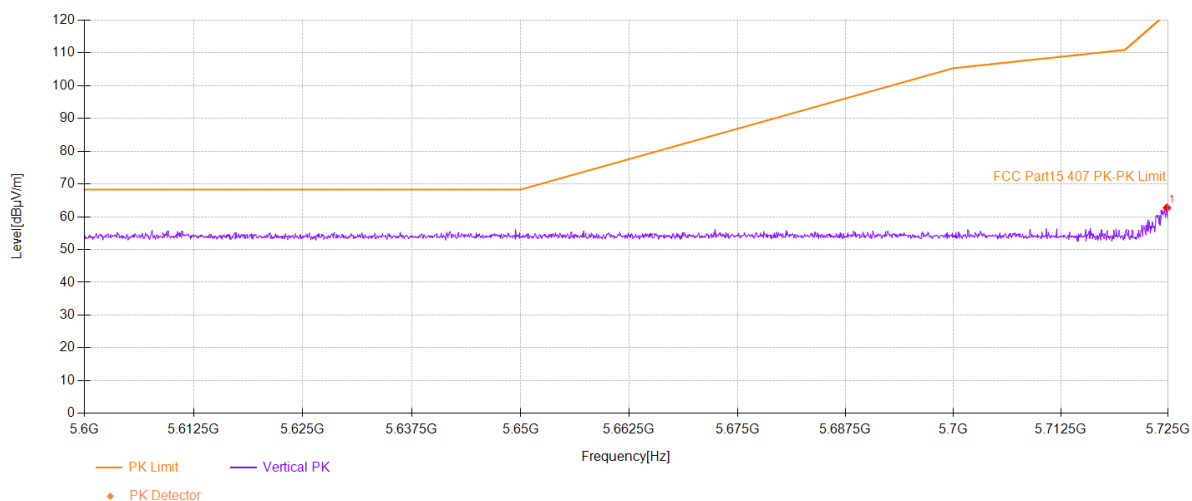
Freq. (MHz)	Ant. Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5850.56	H	59.30	-35.93	-27	Pass
5850.31	V	60.52	-34.71	-27	Pass

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

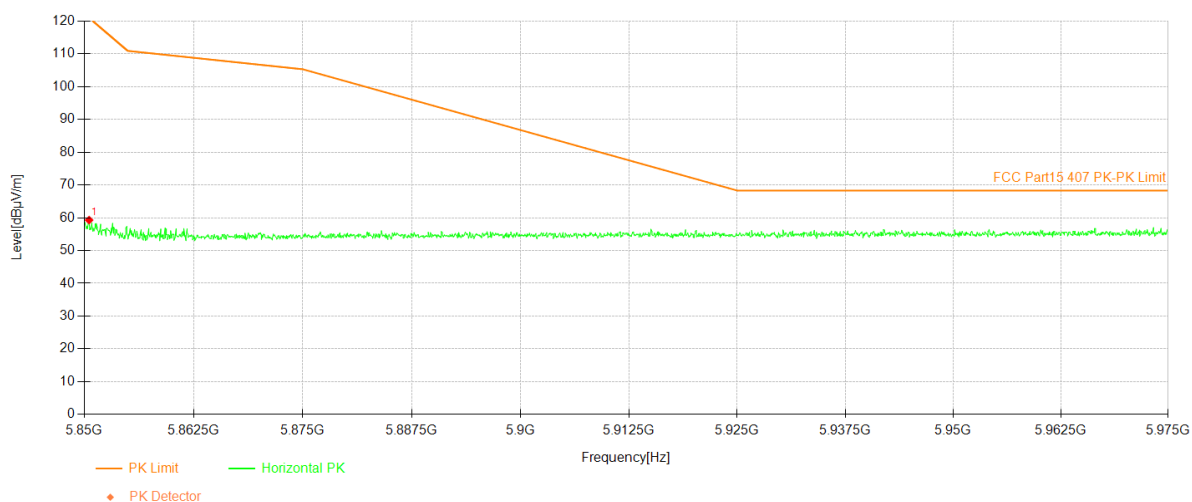
U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 149: 5745MHz	Ant.Pol	H



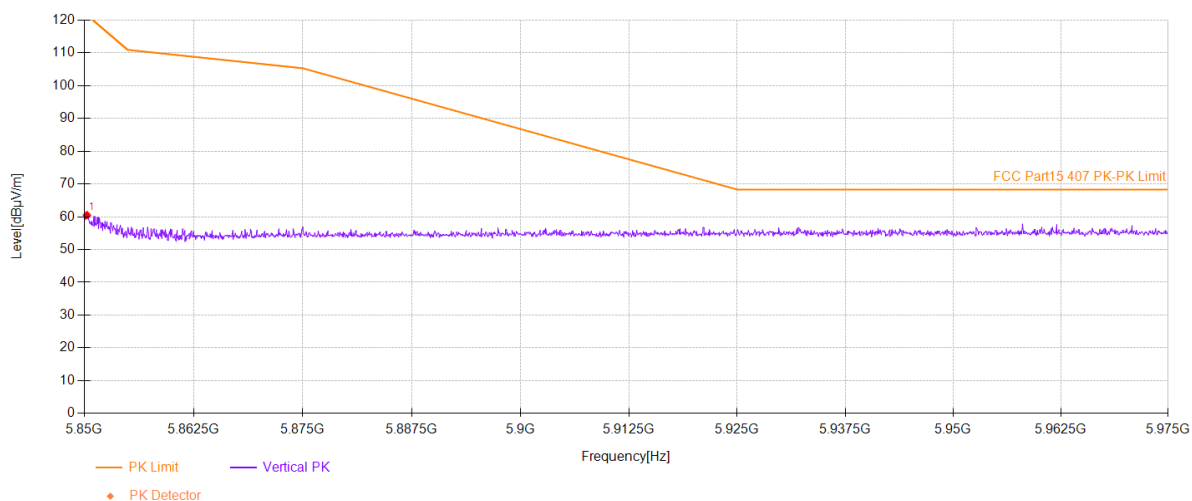
U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 149: 5745MHz	Ant.Pol	V



U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 165: 5825MHz	Ant.Pol	H

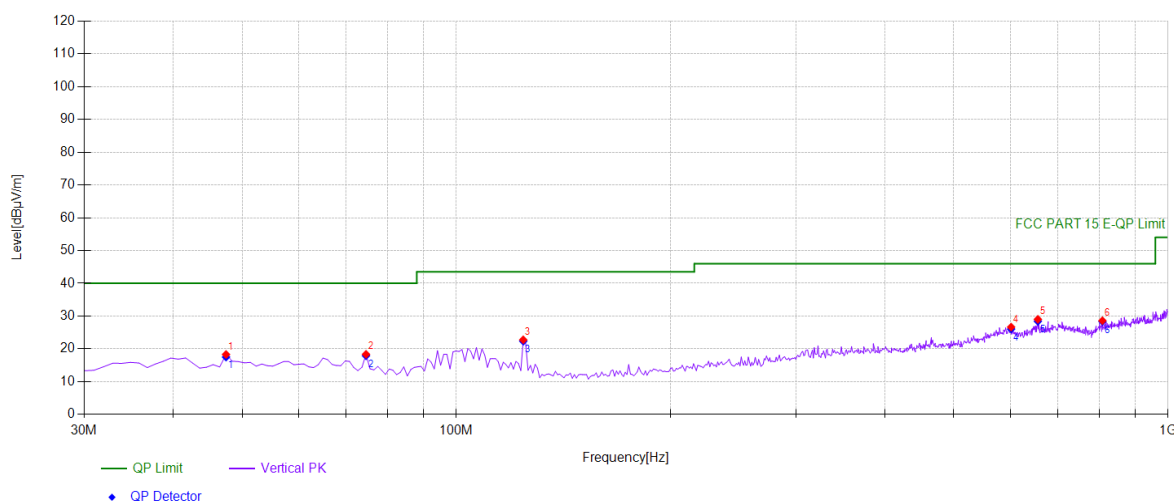


U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ax(HE20)	Channel 165: 5825MHz	Ant.Pol	V



- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
All the antenna(Antenna 1) and modes(802.11a/n/ac/ax) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Mode:	11A 5180
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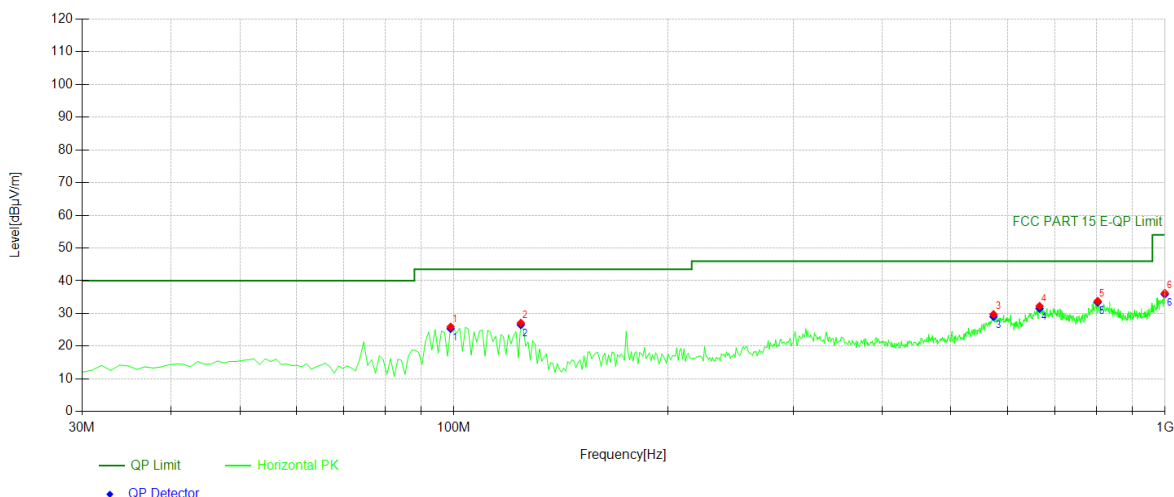
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	27.31	-9.00	18.31	PK	40.00	21.69	Vertical
2	74.6647	30.25	-11.89	18.36	PK	40.00	21.64	Vertical
3	124.1842	33.88	-11.10	22.78	PK	43.50	20.72	Vertical
4	601.9019	26.17	0.49	26.66	PK	46.00	19.34	Vertical
5	656.2763	29.04	-0.01	29.03	PK	46.00	16.97	Vertical
6	808.7187	27.03	1.59	28.62	PK	46.00	17.38	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-9.00	17.51	40.00	22.49
2	74.6647	-11.89	17.92	40.00	22.08
3	124.1842	-11.10	22.34	43.50	21.16
4	601.9019	0.49	26.06	46.00	19.94
5	656.2763	-0.01	28.43	46.00	17.57
6	808.7187	1.59	28.37	46.00	17.63

Mode:	11A 5180
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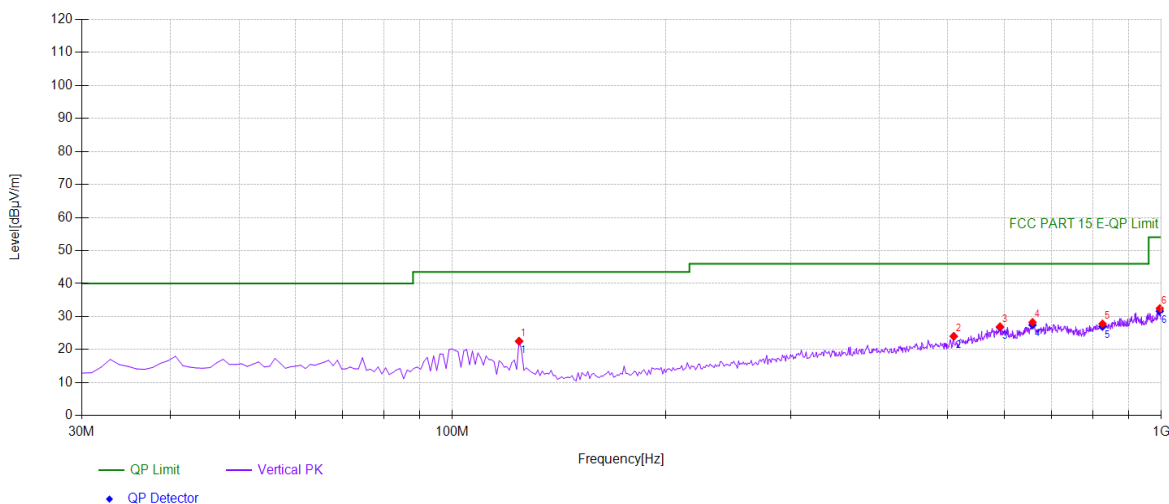
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	98.9389	35.56	-9.64	25.92	PK	43.50	17.58	Horizontal
2	124.1842	38.21	-11.10	27.11	PK	43.50	16.39	Horizontal
3	573.7437	30.43	-0.68	29.75	PK	46.00	16.25	Horizontal
4	665.986	32.16	0.10	32.26	PK	46.00	13.74	Horizontal
5	803.8639	32.28	1.51	33.79	PK	46.00	12.21	Horizontal
6	999.029	32.38	3.85	36.23	PK	54.00	17.77	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	98.9389	-9.64	25.35	43.50	18.15
2	124.1842	-11.10	26.54	43.50	16.96
3	573.7437	-0.68	29.01	46.00	16.99
4	665.986	0.10	31.52	46.00	14.48
5	803.8639	1.51	33.41	46.00	12.59
6	999.029	3.85	35.85	54.00	18.15

Mode:	11A 5200
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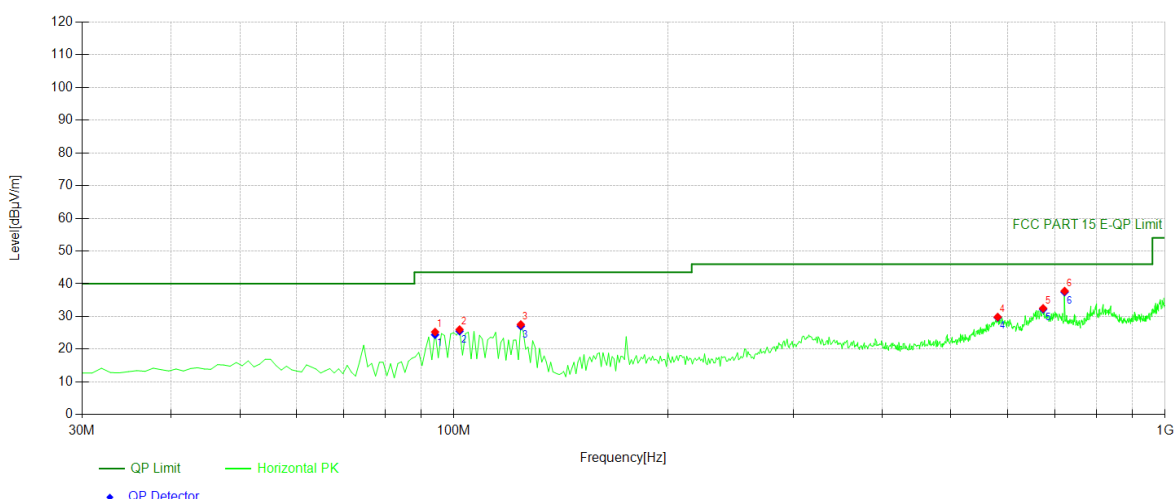
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	124.1842	33.64	-11.10	22.54	PK	43.50	20.96	Vertical
2	509.6597	26.91	-2.88	24.03	PK	46.00	21.97	Vertical
3	592.1922	26.73	0.22	26.95	PK	46.00	19.05	Vertical
4	658.2182	28.24	0.04	28.28	PK	46.00	17.72	Vertical
5	826.1962	25.99	1.82	27.81	PK	46.00	18.19	Vertical
6	995.1451	28.62	3.85	32.47	PK	54.00	21.53	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	124.1842	-11.10	22.53	43.50	20.97
2	509.6597	-2.88	24.02	46.00	21.98
3	592.1922	0.22	26.78	46.00	19.22
4	658.2182	0.04	27.47	46.00	18.53
5	826.1962	1.82	27.00	46.00	19.00
6	995.1451	3.85	31.66	54.00	22.34

Mode:	11A 5200
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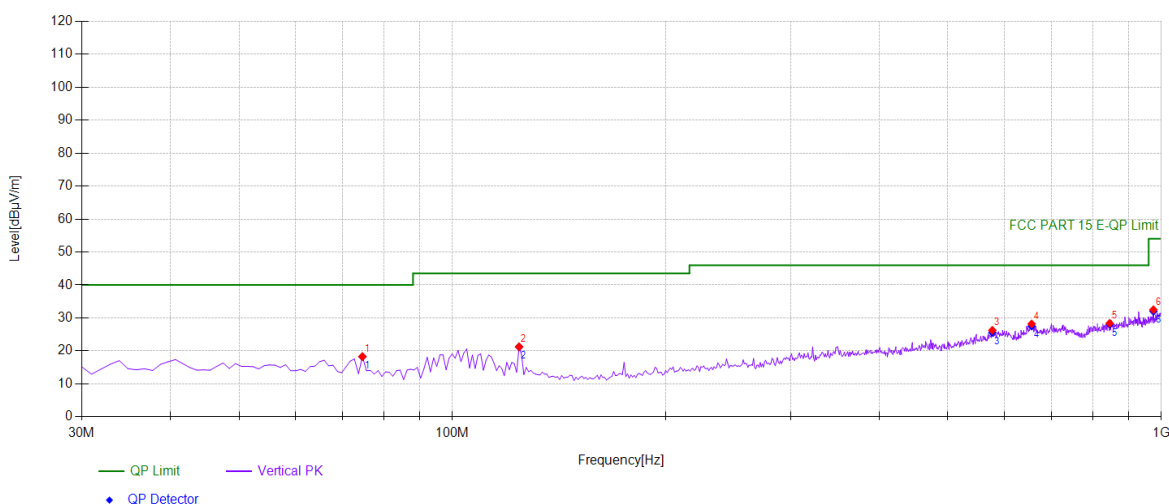
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	94.0841	35.67	-10.40	25.27	PK	43.50	18.23	Horizontal
2	101.8519	35.63	-9.61	26.02	PK	43.50	17.48	Horizontal
3	124.1842	38.66	-11.10	27.56	PK	43.50	15.94	Horizontal
4	581.5115	30.07	-0.23	29.84	PK	46.00	16.16	Horizontal
5	673.7538	32.39	0.12	32.51	PK	46.00	13.49	Horizontal
6	722.3023	36.72	1.05	37.77	PK	46.00	8.23	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	94.0841	-10.40	24.42	43.50	19.08
2	101.8519	-9.61	25.52	43.50	17.98
3	124.1842	-11.10	27.06	43.50	16.44
4	581.5115	-0.23	29.70	46.00	16.30
5	673.7538	0.12	32.21	46.00	13.79
6	722.3023	1.05	37.47	46.00	8.53

Mode:	11A 5240
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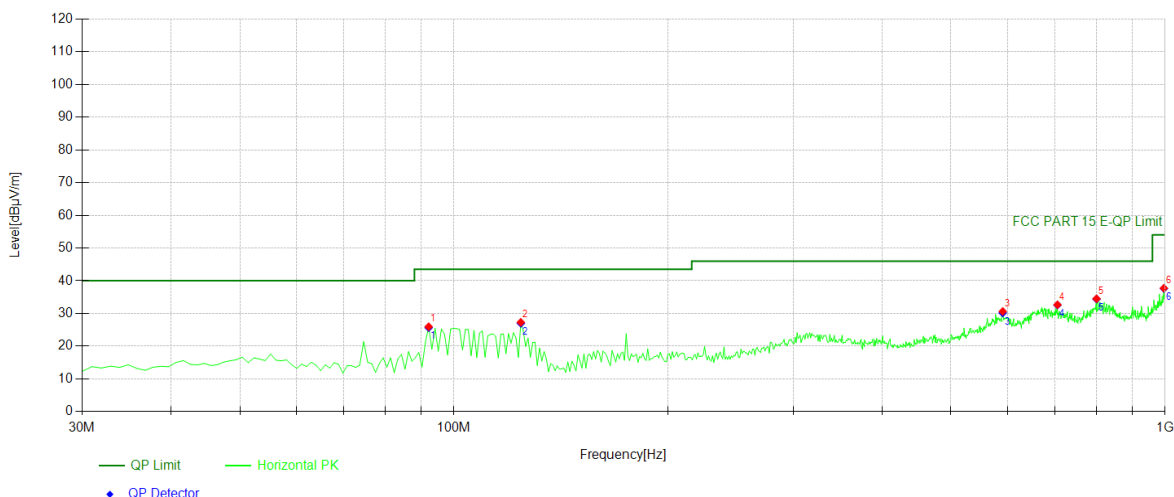
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	74.6647	30.18	-11.89	18.29	PK	40.00	21.71	Vertical
2	124.1842	32.37	-11.10	21.27	PK	43.50	22.23	Vertical
3	577.6276	26.72	-0.45	26.27	PK	46.00	19.73	Vertical
4	656.2763	28.21	-0.01	28.20	PK	46.00	17.80	Vertical
5	845.6156	26.01	2.39	28.40	PK	46.00	17.60	Vertical
6	974.7548	28.69	3.83	32.52	PK	54.00	21.48	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	74.6647	-11.89	18.25	40.00	21.75
2	124.1842	-11.10	21.23	43.50	22.27
3	577.6276	-0.45	25.59	46.00	20.41
4	656.2763	-0.01	27.52	46.00	18.48
5	845.6156	2.39	28.08	46.00	17.92
6	974.7548	3.83	32.04	54.00	21.96

Mode:	11A 5240
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Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	92.1421	36.67	-10.70	25.97	PK	43.50	17.53	Horizontal
2	124.1842	38.41	-11.10	27.31	PK	43.50	16.19	Horizontal
3	591.2212	30.47	0.17	30.64	PK	46.00	15.36	Horizontal
4	705.7958	31.68	1.00	32.68	PK	46.00	13.32	Horizontal
5	800.951	33.06	1.46	34.52	PK	46.00	11.48	Horizontal
6	996.1161	33.89	3.85	37.74	PK	54.00	16.26	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	92.1421	-10.70	25.66	43.50	17.84
2	124.1842	-11.10	27.00	43.50	16.50
3	591.2212	0.17	30.17	46.00	15.83
4	705.7958	1.00	32.57	46.00	13.43
5	800.951	1.46	34.41	46.00	11.59
6	996.1161	3.85	37.63	54.00	16.37

8.5 POWER LINE CONDUCTED EMISSIONS

8.5.1 Applicable Standard

According to FCC Part 15.207(a)

According to IC RSS-Gen 8.8

8.5.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.5.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

8.5.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.5.5 Test Results

N/A

Not applicable, since EUT is DC power.

8.6 ANTENNA APPLICATION

8.6.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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.
FCC 47 CFR Part15.407(a)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

8.6.2 Result

PASS.

- Note:
- ☒ Antenna use a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached document Internal Photos to show the antenna connector.

----- END OF REPORT -----

9 APPENDIX PHOTOGRAPHS OF EUT

Please refer to the file of External Photo and Internal Photo.



10 APPENDIX PHOTOGRAPHS OF TEST SETUP

Please refer to the file of Test Setup Photo.

