

TEST REPORT

Product Name : HMI
Model Number : VT-HMI-101-TPK12-MC
Contains FCC ID : 2BEA6TPC121
Contains IC : 31870-TPC121

Prepared for : Vantron Technology, Inc.
Address : 48434 Milmont Drive Fremont, California 94538-7324,
United States

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2605140206W00104R
Date(s) of Tests : May 15, 2026 to June 8, 2026
Date of issue : June 9, 2026

1 TEST RESULT CERTIFICATION

Applicant : Vantron Technology, Inc.
Address : 48434 Milmont Drive Fremont, California 94538-7324, United States
Manufacturer : Vantron Technology, Inc.
Address : 48434 Milmont Drive Fremont, California 94538-7324, United States
EUT : HMI
Model Name : VT-HMI-101-TPK12-MC
Trademark : Vantron

Measurement Procedure Used:

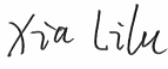
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS
IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 4(07-2025)	PASS

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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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 4 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 : May 15, 2026 to June 8, 2026

Prepared by : 
Yu Xiaolan /Editor

Reviewer : 
Xia Lili /Supervisor

Approve & Authorized Signer : 
Wang Li /Manager



Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2605140206W00104R	/	Original Report
Note: This change is to request approval for mobile category specific host product, Antenna Type is FPC antenna, According to the requirements for antenna Change in KDB178919 D01 Permissive Change Policy v06, the antenna types are different and the gain value is less than the original. Out of Band Emission, Radiated Emission tests were performed to verify RF compliance, and the results of other test items remained unchanged based on the module report.			



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2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product:	HMI
Model Number:	VT-HMI-101-TPK12-MC
Test Sample S/N:	ENS2605140206W001-01
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
Data Rate :	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: MCS0-MCS15 802.11ac: MCS0-MCS9
Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac
Frequency Range:	UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20) 5190-5230MHz for 802.11n(HT40)/ac(VHT40) 5210MHz for 802.11ac(VHT80)
	UNII-2A: 5250MHz-5350MHz Band 5260-5320MHz for 802.11a/n(HT20)/ac(VHT20) 5270-5310MHz for 802.11n(HT40)/ac(VHT40) 5290MHz for 802.11ac(VHT80)
	UNII-2C: 5470MHz-5725MHz Band 5500-5700MHz for 802.11a/n(HT20)/ac(VHT20) 5510-5670MHz for 802.11n(HT40)/ac(VHT40) 5530MHz for 802.11ac(VHT80)
	UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20) 5755-5795MHz for 802.11n(HT40)/ac(VHT40) 5775MHz for 802.11ac(VHT80);
Antenna Type:	FPC Antenna
Antenna Gain:	Ant1: 4.61 dBi Ant2: 4.61 dBi (Note: The antenna information is provided by the customers, which will have a certain impact on the test results.)
Power Supply:	DC12V(from adapter)
Adapter:	Model No:WTB65-1205000-T Input:100-240V~50/60Hz 1.6A Output:12.0V/5.0A 60.0W

Test Voltage:	AC 120V/60Hz
FVIN:	V0.03
Temperature Range:	0-50℃
Date of Received:	May 15, 2026
Date of Test:	May 15, 2026 to June 8, 2026

Note: For more details, please refer to the User's manual of the EUT.



3 SUMMARY OF TEST RESULT

FCC Part Clause	IC Part Clause	Test Parameter	Verdict	Remark
15.407 (b) 15.209 15.205	RSS-247 clause 7.3.1.3 RSS-247 clause 7.3.2.3 RSS-247 clause 7.3.3.3 RSS-247 clause 7.3.4.4 RSS-Gen 8.9 RSS-Gen 8.10 RSS-Gen 6.13	RadiatedSpurious Emission	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 **Contains FCC ID:2BEA6TPC121** filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules.

This submittal(s) (test report) is intended for **Contains IC:31870-TPC121** filing to comply with Section A8 of the IC.

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 4(07-2025)

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D2 General UNII Test Procedures New Rules v02r01

4.2 MEASUREMENT EQUIPMENT USED

For Spurious Emissions Test:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	2026/5/10	1Year
Pre-Amplifier	Lunar EM	LNA30M3G-25	J10100000070	2026/5/10	1Year
Bilog Antenna	Schwarzbeck	VULB9163	661	2025/5/18	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	2025/5/17	2 Year
Pre-Amplifier	EMC Solutions	TRLA-010180G55	26033001	2026/4/14	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13	2 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2026/5/8	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13	2 Year
Coaxial Cable	TIMES	NmNm-7-C15702	N/A	2026/5/8	1Year
Coaxial Cable	TIMES	HF290-NMSM-6.5M	N/A	2026/5/8	1Year
Coaxial Cable	TIMES	LMR-240 N-N	N/A	2026/5/8	1Year

For other test items:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Signal Analyzer	KEYSIGHT	N9010B	MY60240204	2025/12/16	1Year
Vector Signal Generator	Agilent	N5182B	MY53050878	2026/5/8	1Year
Analog Signal Generator	Agilent	N5171B	MY53050553	2026/5/8	1Year
RF Control Unit(Power Meter)	Tonscend	JS0806-2	\	2026/5/8	1Year
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2026/5/8	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):

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):

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

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210				

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

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):

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

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	N/A	N/A	N/A	N/A

☒ Wifi 5G with U-NII -2A

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

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):

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

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

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

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):

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

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

☒ Wifi 5G with U-NII -2C

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

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):

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

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610		

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

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	120	5600	140	5700

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

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

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530				

☒ Wifi 5G with U-NII -3

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

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):

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

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

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

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):

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

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

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:

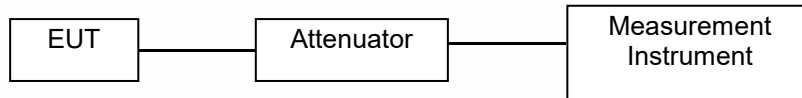
Test Parameter	Measurement Uncertainty
Frequency error	$\pm 1.9\%$
Occupied Bandwidth	$\pm 1.9\text{KHz}$
Transmitter output power	$\pm 1.18\text{dB}$
Conducted spurious emissions	$\pm 3.3\text{dB}$
Radiated spurious emissions	$\pm 4.5\text{dB}$
Temperature	$\pm 1.2^{\circ}\text{C}$
Humidity	$\pm 3\%$
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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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).

Measurements shall be taken, using the following steps, at a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment (see RSS-Gen for applicable versions of ANSI and CISPR standards).

(1) Line the ground plane with absorbers between the transmitter and the receive antenna to minimize reflections. The absorbers used should have a minimum-rated attenuation of 20 dB through the measurement frequency range of interest. The absorbers shall be positioned to replicate the layout used when compliance with the applicable acceptability criterion was achieved, as set forth in the aforementioned standards on site validation.

(2) Set the height of the receive antenna to 1.5 m. The receive antenna must be one that was designed and fabricated to operate over the entire frequency range of interest, for example, an appropriate standard gain horn.

(3) The distance between the receive antenna and the radiating source shall be sufficient in order to ensure far-field conditions.

(4) Mount the transmitter at a height of 1.5 m.

(5) Configure the device under test (DUT) to produce the maximum power spectral density as measured while assessing compliance with Section 6.2.2 (i.e. channel frequency, modulation type and data rate). If the DUT is equipped with a detachable antenna and the antenna is intended for remote installation (i.e. tower-mounted), the DUT may be substituted with a suitable signal generator. The level and frequency settings on the generator shall be set so as to reproduce the maximum power spectral density, measured

within a 1 MHz bandwidth, obtained while assessing compliance to Section 6.2.2.

(6) Position the transmitter or the radiating antenna so that elevation pattern measurements can be taken.

(7) Find the 0° reference point in the horizontal plane.

(8) Care should be taken when positioning the receive antenna to avoid cross-polarization. Antennas of known mounting polarization should be assessed with the receive antenna oriented in the same polarity. If the polarization of the transmit antenna is unknown or the transmit antenna can be mounted in either polarization, e.i.r.p. measurements should be performed to find which mounting polarity provides the highest e.i.r.p. value. Testing shall be carried out with the receive antenna and the DUT mounted in each polarity.

(9) The emission shall be centred on the display of the spectrum analyzer with the following settings:

i. If the power spectral density of the DUT was assessed with a peak detector and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

ii. If the power spectral density of the DUT was assessed using a sample detector with power averaging and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a sample detector, configured to produce 100 power averages and set with a resolution bandwidth, as well as a video bandwidth of 1 MHz.

iii. If the antenna can be detached from the DUT, a continuous wave (CW) signal equal to that of the power spectral density measurement may be used, the spectrum analyzer shall be set to peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

(10) Rotate the turntable 360° recording the field strength at each step. Throughout the main beam of the antenna, the step size shall be kept to a maximum of 1°.

Once outside the main beam of the antenna, the maximum step size shall be as follows, when compared to the requirements of Section 6.2.2:

i. Between 0° and 8°, maximum step size of 2°;

ii. Between 8° and 40°, maximum step size of 4°;

iii. Between 40° and 45°, maximum step size of 1°;

iv. Between 45° and 90°, maximum step size of 5°.

Once the mask reaches 90°, the mask will be inverted and the step size will follow in the same manner as above.

For the purpose of this procedure, the main beam of the antenna is defined as the 3 dB beamwidth.

(11) Convert the measured field strength values in terms of e.i.r.p. density (dBW/1 MHz) using the following equation:

$$\text{e.i.r.p. density (dBW/MHz)} = 10 \log((E \cdot r)^2 / 30)$$

E = field strength in V/m

r = measurement distance in metres

(12) Plot the results against the emission mask with reference to the horizontal plane.

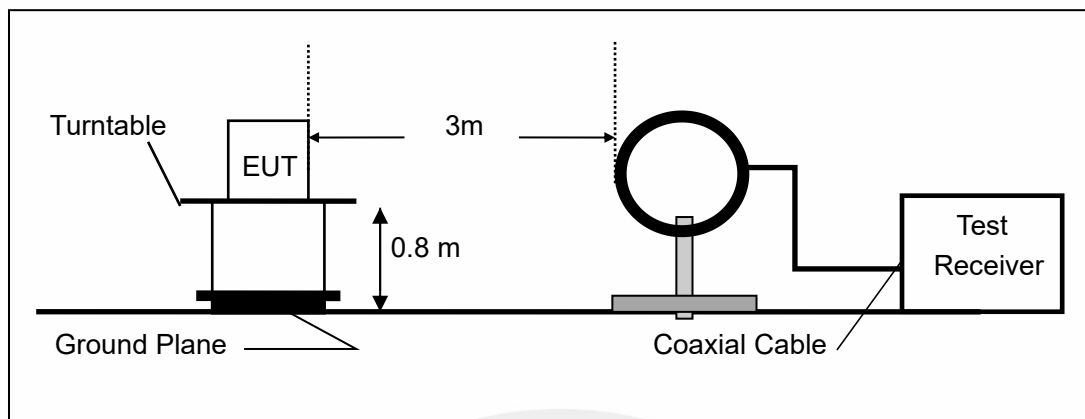
(13) Using the plot, the 0° can be rotated to determine the worst-case installation tilt angle.

(14) Testing shall be performed using the highest gain antenna for every antenna type, if applicable.

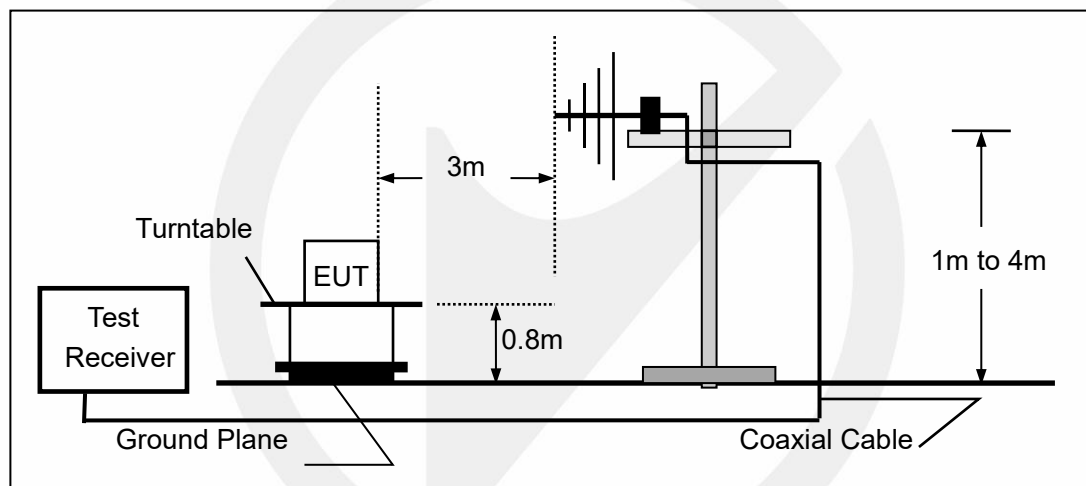
(15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain compliant with the elevation mask requirement set forth in Section 6.2.2(3) of RSS-247 shall be clearly indicated in the user manual.

The following figure is an example of a polar elevation mask measured using the Method 1 reference to dBμV/m at 3 m.

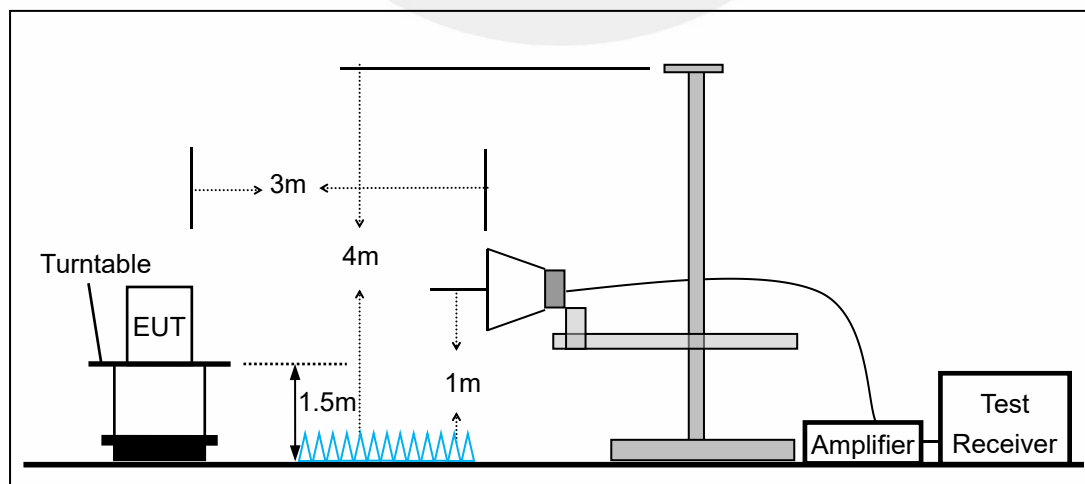
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



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

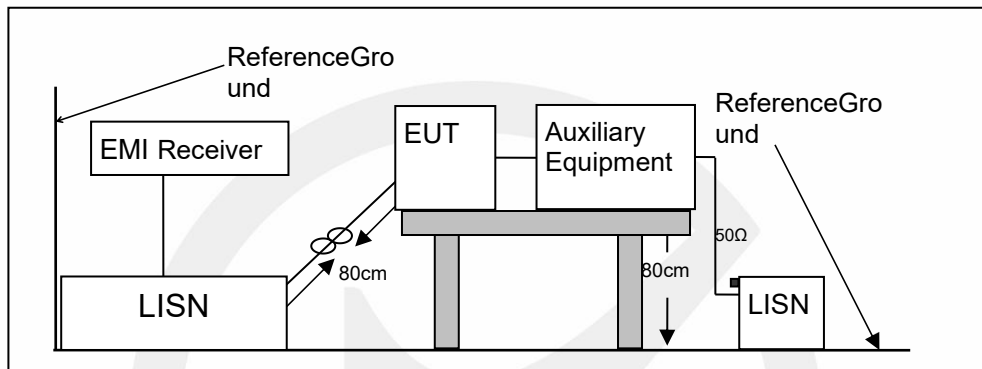


7.3 CONDUCTED EMISSION TEST SETUP

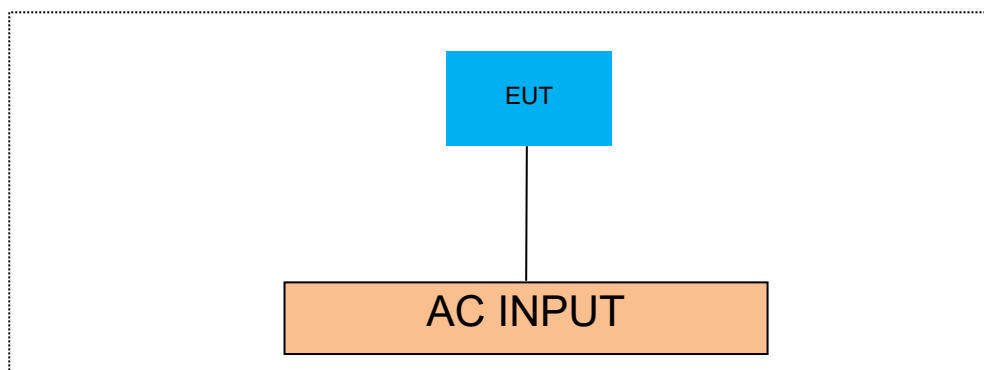
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All 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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.1.1 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

8.1.2 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.

8.1.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.1.4 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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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.

8.1.5 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

■ For Undesirable radiatedSpurious Emission in U-NII - 1

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

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

no any obvious emission were detected from 18 GHz to 40GHz, so below finaltest was performed with frequency range from 1GHz to 18 GHz.

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)		
1664.0391	V	47.87	-47.36	-27	20.36		
5250.25	V	42.07	-53.16	-27	26.16		
17975.9986	V	58.65	-36.58	-27	9.58		
1665.0391	H	40.37	-54.86	-27	27.86		
5474.2632	H	41.99	-53.24	-27	26.24		
17968.9982	H	56.46	-38.77	-27	11.77		

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)		
1665.0391	V	47.92	-47.31	-27	20.31		
5422.2601	V	42.14	-53.09	-27	26.09		
17979.9988	V	56.85	-38.38	-27	11.38		
1665.0391	H	39.70	-55.53	-27	28.53		
5482.2637	H	42.25	-52.98	-27	25.98		
17992.9996	H	56.70	-38.53	-27	11.53		

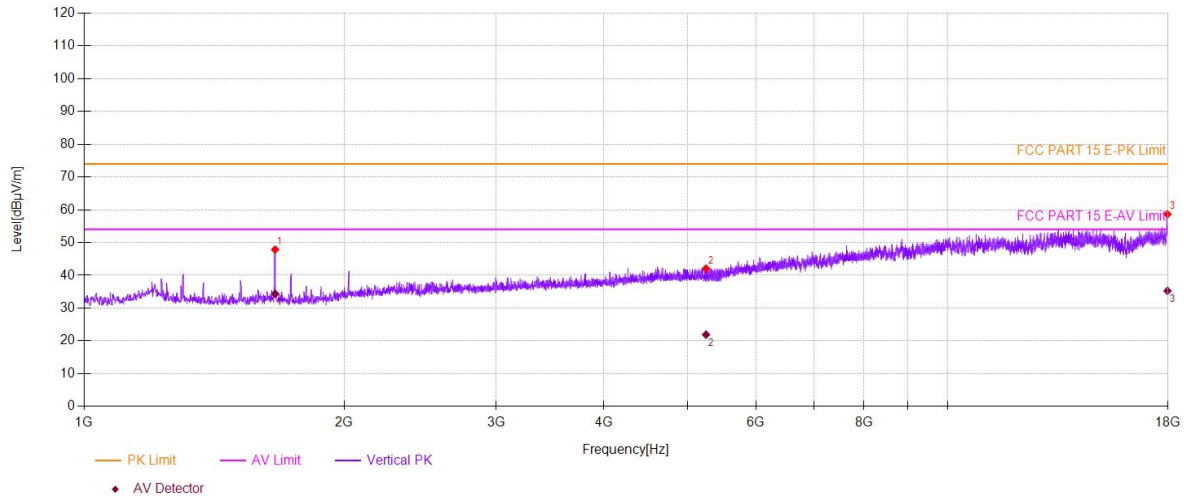
Test mode:		802.11a		Frequency:		Channel 48: 5240MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
1665.0391	V	47.10	-48.13	-27	21.13		
5474.2632	V	42.44	-52.79	-27	25.79		
17993.9996	V	56.65	-38.58	-27	11.58		
1665.0391	H	39.73	-55.5	-27	28.5		
5187.2463	H	42.08	-53.15	-27	26.15		
17968.9982	H	56.36	-38.87	-27	11.87		

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

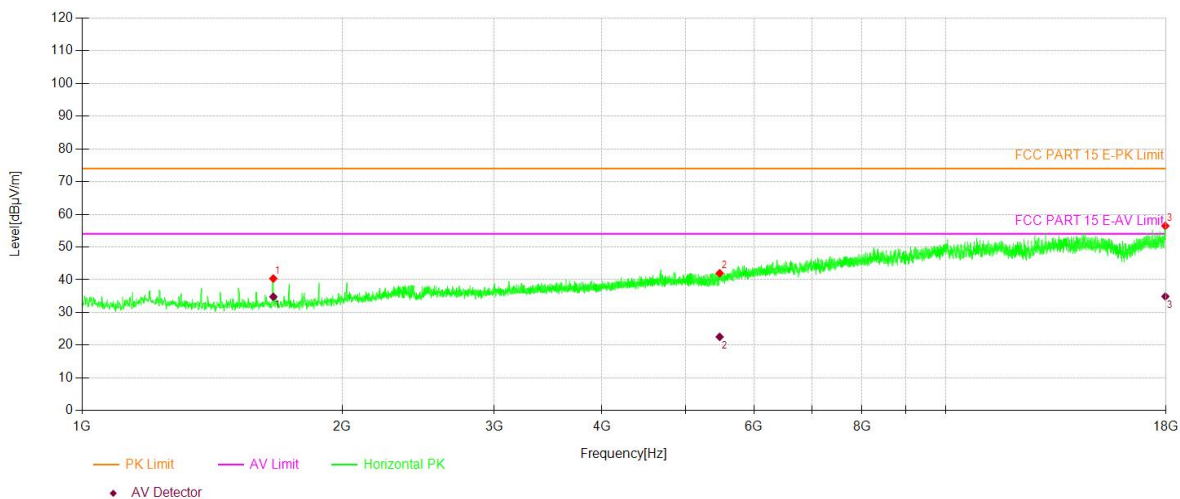


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1664.0391	47.87	-25.62	74.00	26.13	PK	Vertical
2	5250.25	42.07	-16.07	74.00	31.93	PK	Vertical
3	17975.9986	58.65	0.16	74.00	15.35	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1664.0391	34.35	54.00	19.65	AV	Vertical
2	5250.25	21.91	54.00	32.09	AV	Vertical
3	17975.9986	35.25	54.00	18.75	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.0391	40.37	-25.62	74.00	33.63	PK	Horizontal
2	5474.2632	41.99	-15.29	74.00	32.01	PK	Horizontal
3	17968.9982	56.46	-0.04	74.00	17.54	PK	Horizontal

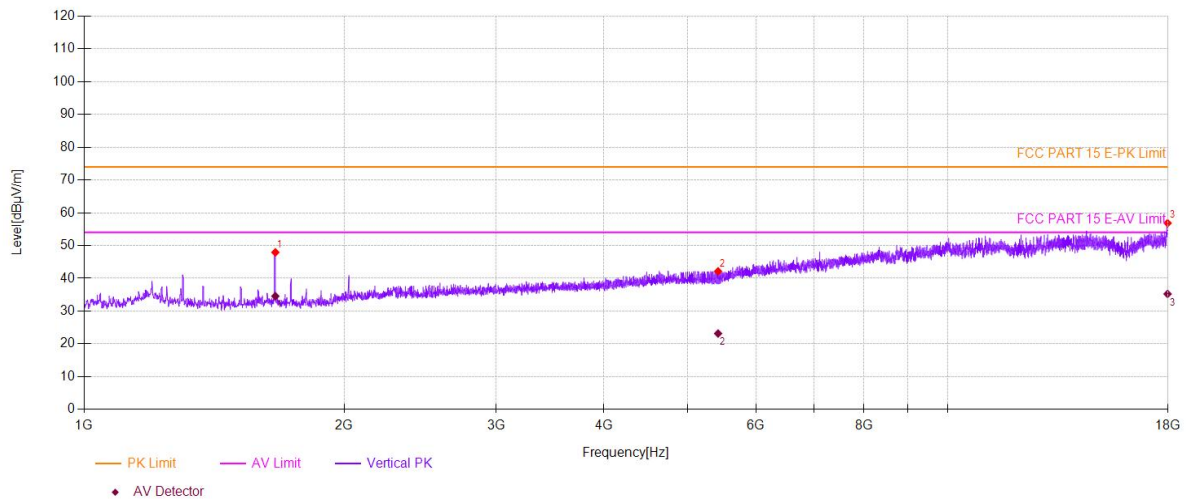
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.80	54.00	19.20	AV	Horizontal
2	5474.2632	22.56	54.00	31.44	AV	Horizontal
3	17968.9982	34.91	54.00	19.09	AV	Horizontal

Test mode: 802.11a

Frequency:

Channel 40: 5200MHz

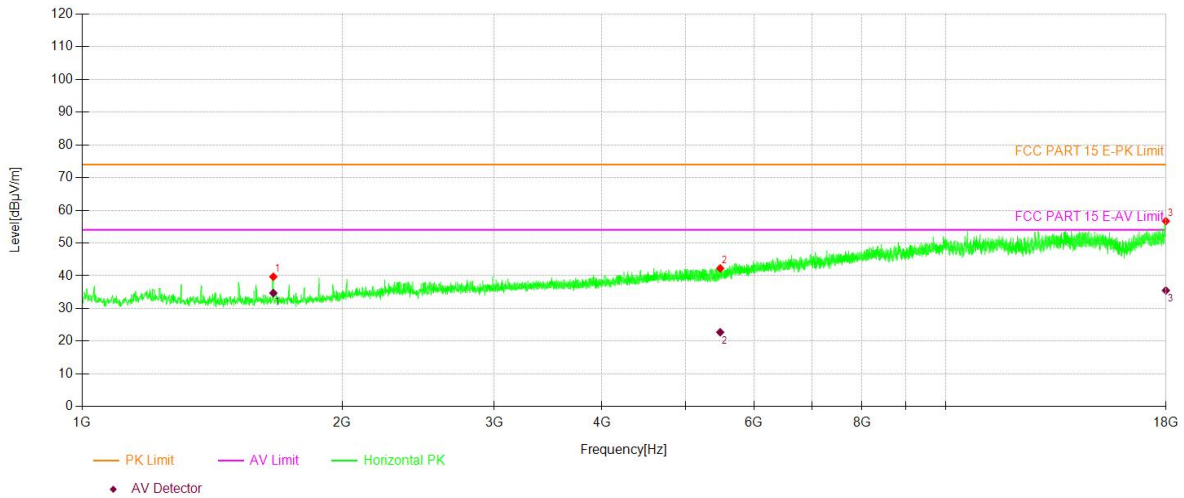


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.0391	47.92	-25.62	74.00	26.08	PK	Vertical
2	5422.2601	42.14	-15.29	74.00	31.86	PK	Vertical
3	17979.9988	56.85	0.27	74.00	17.15	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.55	54.00	19.45	AV	Vertical
2	5422.2601	23.17	54.00	30.83	AV	Vertical
3	17979.9988	35.24	54.00	18.76	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.0391	39.70	-25.62	74.00	34.30	PK	Horizontal
2	5482.2637	42.25	-15.29	74.00	31.75	PK	Horizontal
3	17992.9996	56.70	0.65	74.00	17.30	PK	Horizontal

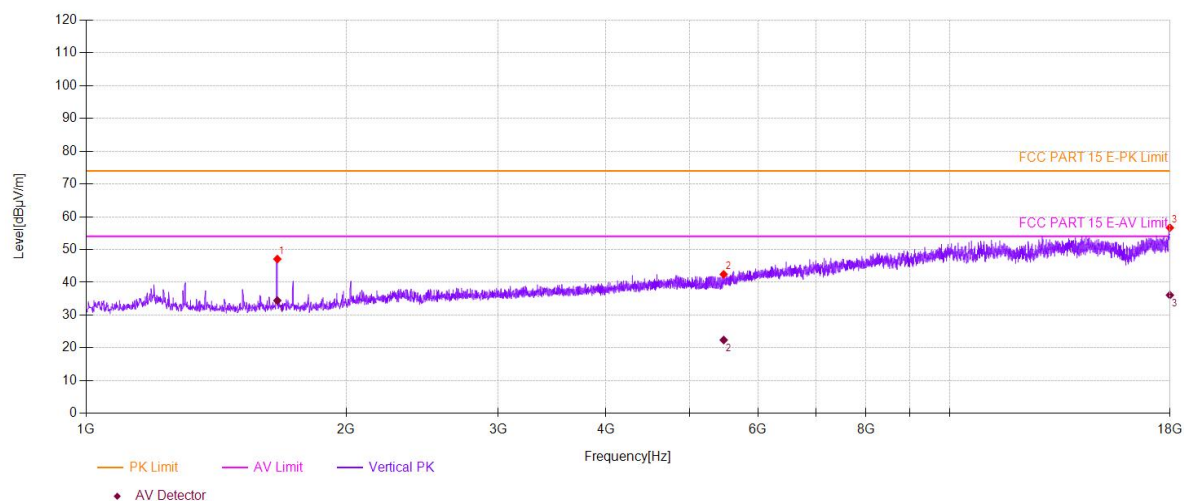
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.71	54.00	19.29	AV	Horizontal
2	5482.2637	22.75	54.00	31.25	AV	Horizontal
3	17992.9996	35.51	54.00	18.49	AV	Horizontal

Test mode: 802.11a

Frequency:

Channel 48: 5240MHz

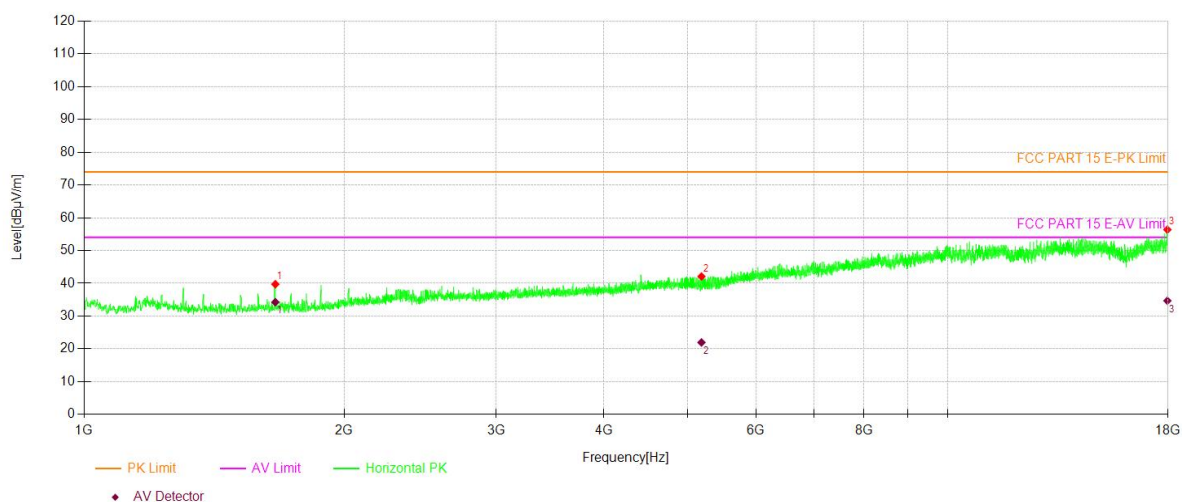


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.0391	47.10	-25.62	74.00	26.90	PK	Vertical
2	5474.2632	42.44	-15.29	74.00	31.56	PK	Vertical
3	17993.9996	56.65	0.68	74.00	17.35	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.44	54.00	19.56	AV	Vertical
2	5474.2632	22.41	54.00	31.59	AV	Vertical
3	17993.9996	36.09	54.00	17.91	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.0391	39.73	-25.62	74.00	34.27	PK	Horizontal
2	5187.2463	42.08	-16.25	74.00	31.92	PK	Horizontal
3	17968.9982	56.36	-0.04	74.00	17.64	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.25	54.00	19.75	AV	Horizontal
2	5187.2463	21.96	54.00	32.04	AV	Horizontal
3	17968.9982	34.69	54.00	19.31	AV	Horizontal

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode: 802.11ac(VHT20) Frequency: Channel 36: 5180MHz

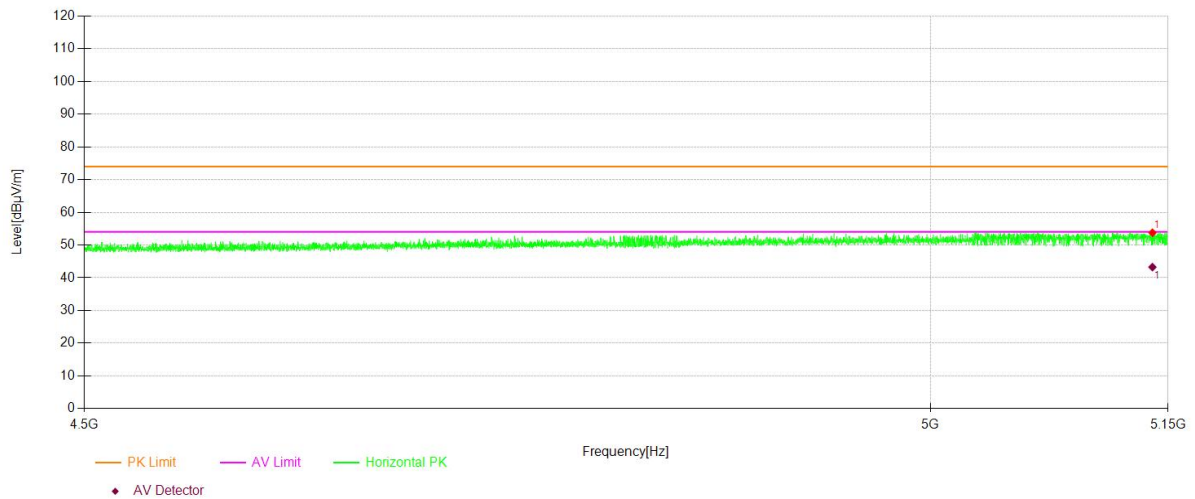
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5140.00	H	53.77	-41.46	-27	Pass
5141.46	V	53.33	-41.9	-27	Pass

Test mode: 802.11ac(VHT20) Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5360.18	H	52.85	-42.38	-27	Pass
5355.55	V	51.94	-43.29	-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

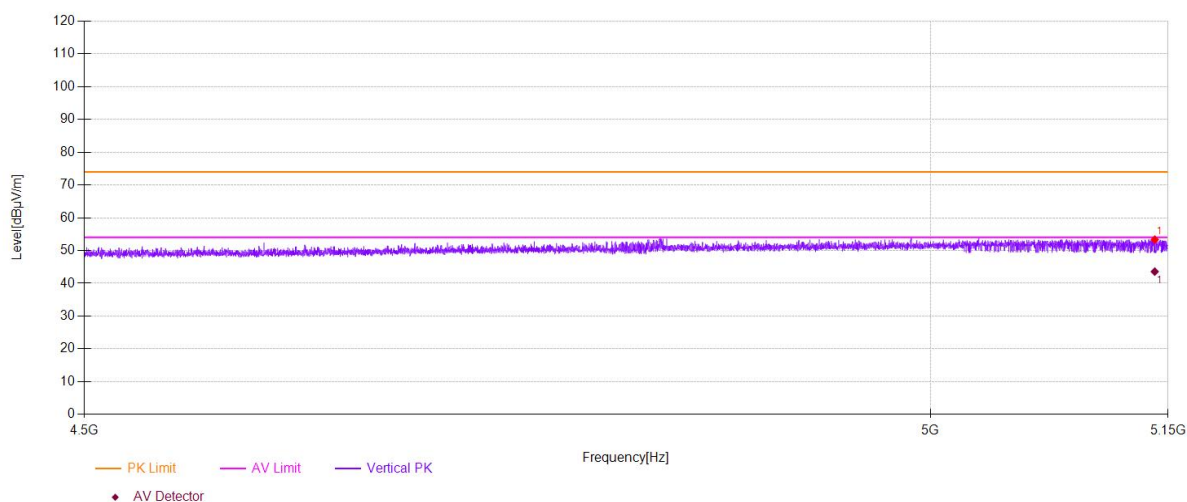
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 36: 5180MHz	Ant.Pol	H



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5140.00	53.77	36.74	74.00	20.23	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5140.006	43.26	54.00	10.74	AV	Horizontal

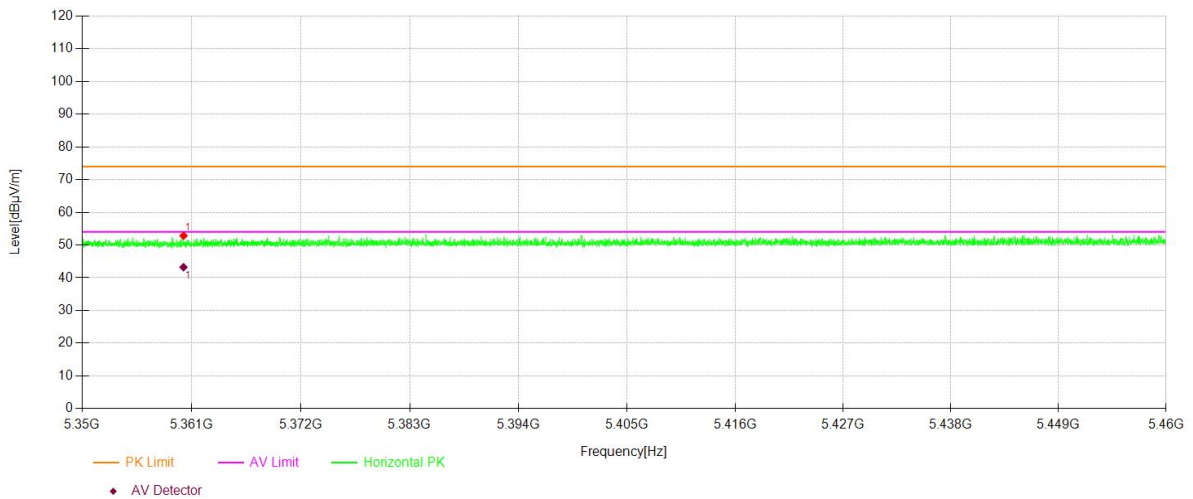
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 36: 5180MHz	Ant.Pol	V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5141.46	53.33	36.74	74.00	20.67	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5141.468	43.58	54.00	10.42	AV	Vertical

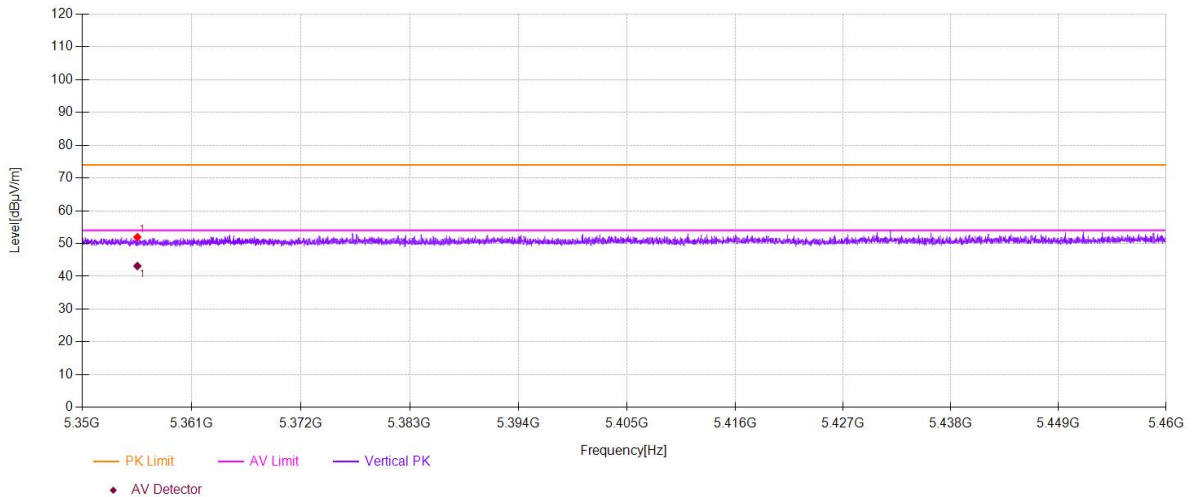
Test Model U-NII - 1
Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
802.11ac(VHT20) Channel 48: 5240MHz Ant.Pol H



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5360.18	52.85	36.93	74.00	21.15	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5360.188	43.23	54.00	10.77	AV	Horizontal

U-NII - 1			
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11ac(VHT20)	Channel 48: 5240MHz	Ant.Pol
			V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5355.55	51.94	36.92	74.00	22.06	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5355.55	43.14	54.00	10.86	AV	Vertical

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

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

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

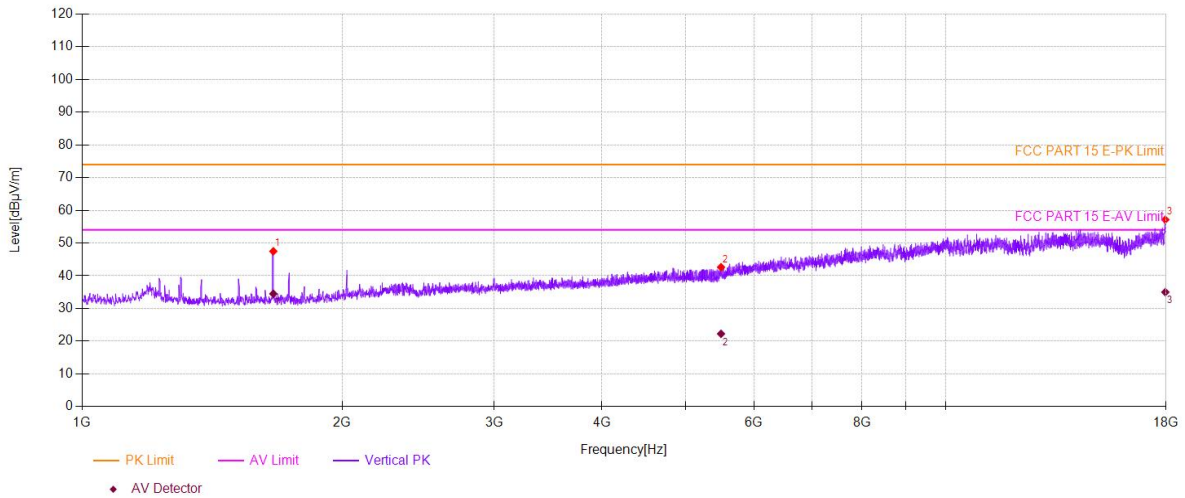
Test mode:		802.11a		Frequency:		Channel 52: 5260MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
1665.03	V	47.49	-47.74	-27	20.74		
5494.26	V	42.62	-52.61	-27	25.61		
17964.9	V	57.14	-38.09	-27	11.09		
1664.03	H	39.73	-55.5	-27	28.5		
5492.26	H	43.35	-51.88	-27	24.88		
17965.9	H	56.81	-38.42	-27	11.42		

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)		
1665.03	V	47.31	-47.92	-27	20.92		
5490.26	V	42.05	-53.18	-27	26.18		
17960.9	V	55.86	-39.37	-27	12.37		
1665.03	H	39.74	-55.49	-27	28.49		
5303.25	H	41.96	-53.27	-27	26.27		
17985.9	H	56.05	-39.18	-27	12.18		

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)		
1664.03	V	47.88	-47.35	-27	20.35		
5095.24	V	41.76	-53.47	-27	26.47		
17985.9	V	57.23	-38	-27	11		
1665.03	H	40.60	-54.63	-27	27.63		
5490.26	H	42.80	-52.43	-27	25.43		
17984.9	H	56.58	-38.65	-27	11.65		

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

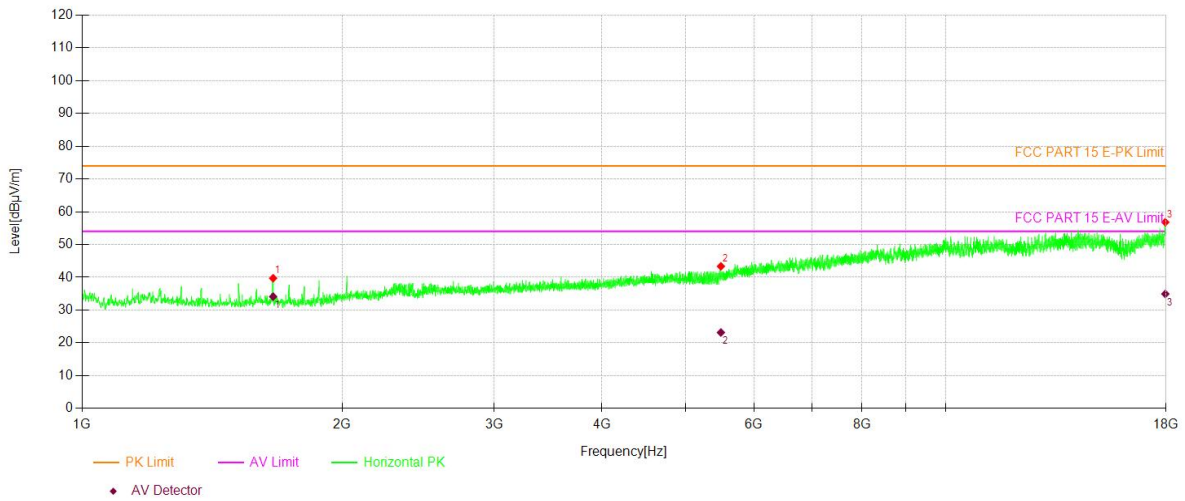


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	47.49	-25.62	74.00	26.51	PK	Vertical
2	5494.26	42.62	-15.29	74.00	31.38	PK	Vertical
3	17964.9	57.14	-0.16	74.00	16.86	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	34.50	54.00	19.50	AV	Vertical
2	5494.26	22.27	54.00	31.73	AV	Vertical
3	17964.9	35.00	54.00	19.00	AV	Vertical



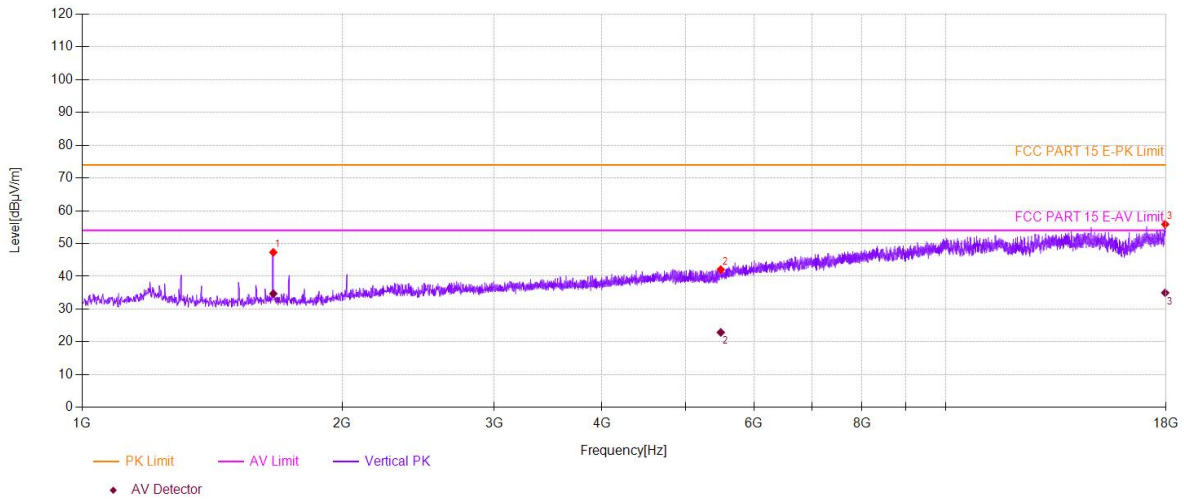
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1664.03	39.73	-25.62	74.00	34.27	PK	Horizontal
2	5492.26	43.35	-15.29	74.00	30.65	PK	Horizontal
3	17965.9	56.81	-0.13	74.00	17.19	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1664.03	34.12	54.00	19.88	AV	Horizontal
2	5492.26	23.18	54.00	30.82	AV	Horizontal
3	17965.9	34.93	54.00	19.07	AV	Horizontal

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

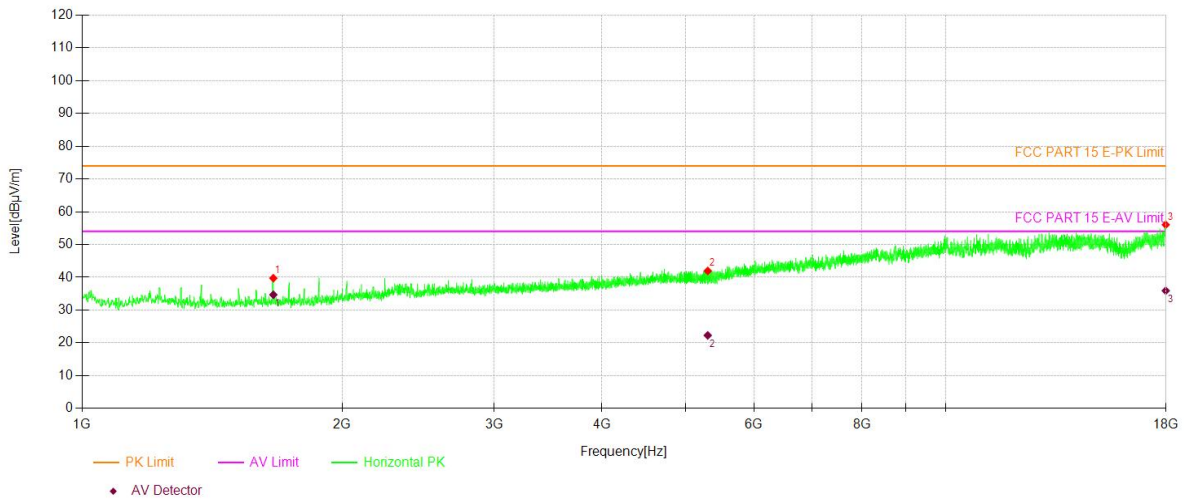


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	47.31	-25.62	74.00	26.69	PK	Vertical
2	5490.26	42.05	-15.29	74.00	31.95	PK	Vertical
3	17960.9	55.86	-0.28	74.00	18.14	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	34.71	54.00	19.29	AV	Vertical
2	5490.26	22.90	54.00	31.10	AV	Vertical
3	17960.9	34.99	54.00	19.01	AV	Vertical



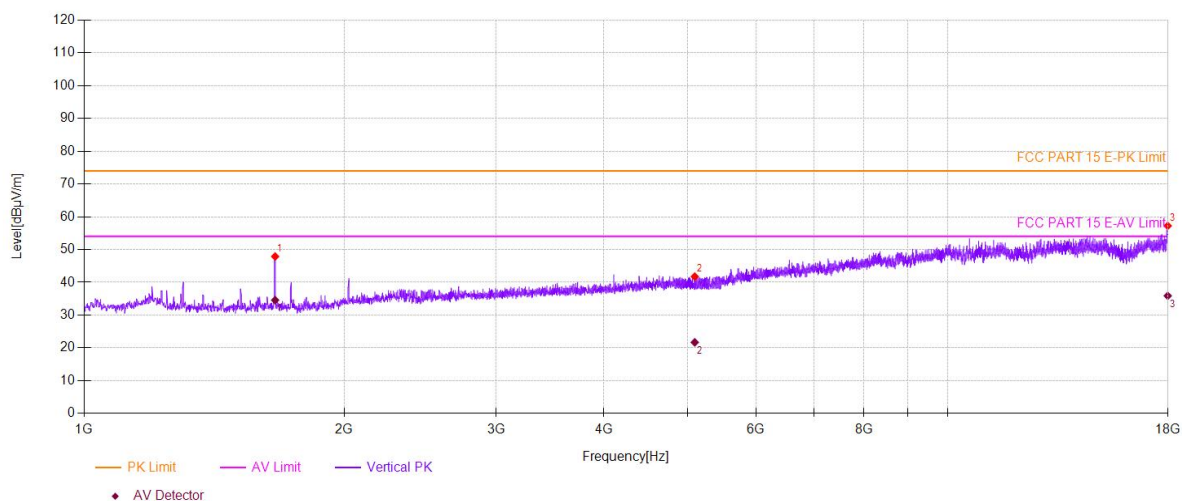
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	39.74	-25.62	74.00	34.26	PK	Horizontal
2	5303.25	41.96	-15.80	74.00	32.04	PK	Horizontal
3	17985.9	56.05	0.44	74.00	17.95	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	34.69	54.00	19.31	AV	Horizontal
2	5303.25	22.30	54.00	31.70	AV	Horizontal
3	17985.9	35.92	54.00	18.08	AV	Horizontal

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

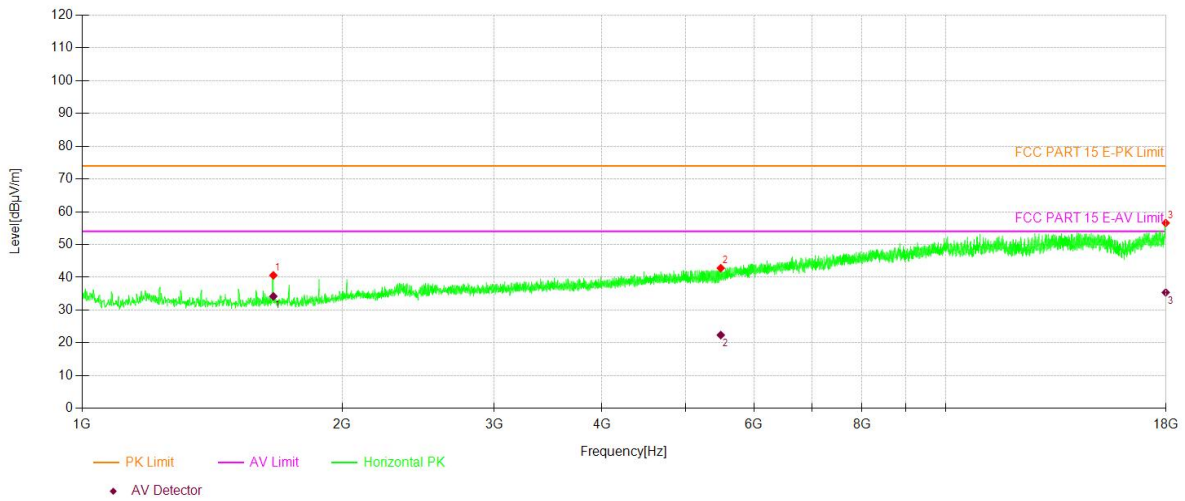


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1664.03	47.88	-25.62	74.00	26.12	PK	Vertical
2	5095.24	41.76	-16.29	74.00	32.24	PK	Vertical
3	17985.9	57.23	0.44	74.00	16.77	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1664.03	34.57	54.00	19.43	AV	Vertical
2	5095.24	21.70	54.00	32.30	AV	Vertical
3	17985.9	35.88	54.00	18.12	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	40.60	-25.62	74.00	33.40	PK	Horizontal
2	5490.26	42.80	-15.29	74.00	31.20	PK	Horizontal
3	17984.9	56.58	0.42	74.00	17.42	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	34.21	54.00	19.79	AV	Horizontal
2	5490.26	22.40	54.00	31.60	AV	Horizontal
3	17984.9	35.39	54.00	18.61	AV	Horizontal

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode: 802.11ac(VHT20) Frequency: Channel 52: 5260MHz

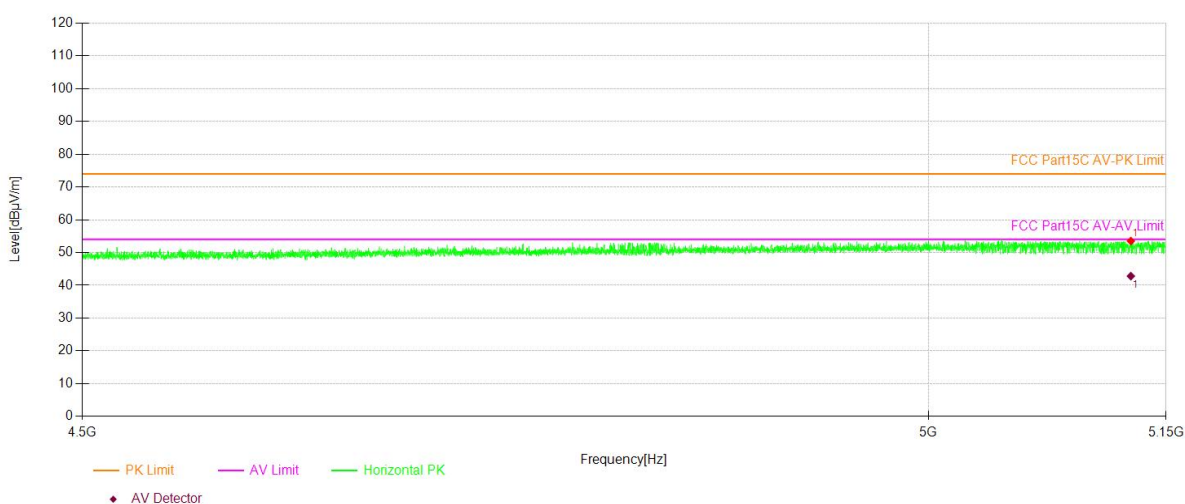
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5127.49	H	53.51	-41.72	-27	Pass
5120.34	V	53.59	-41.64	-27	Pass

Test mode: 802.11ac(VHT20) Frequency: Channel 64: 5320MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5351.33	H	52.79	-42.44	-27	Pass
5350.75	V	52.89	-42.34	-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

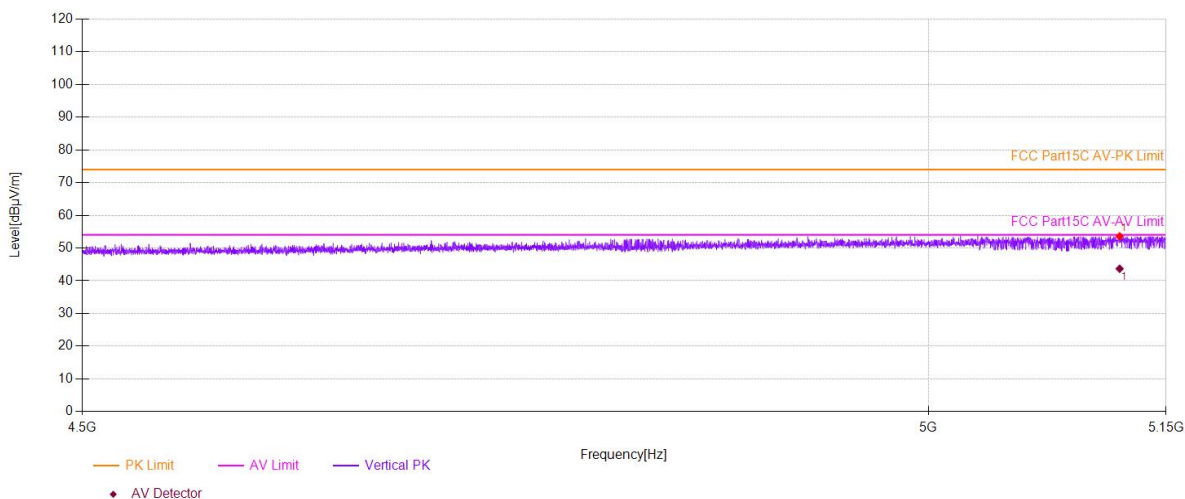
Test Model	U-NII -2A	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 52: 5260MHz	Ant.Pol	H	



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5127.49	53.51	36.74	74.00	20.49	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5127.49	42.80	54.00	11.20	AV	Horizontal

U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 52: 5260MHz	Ant.Pol	V

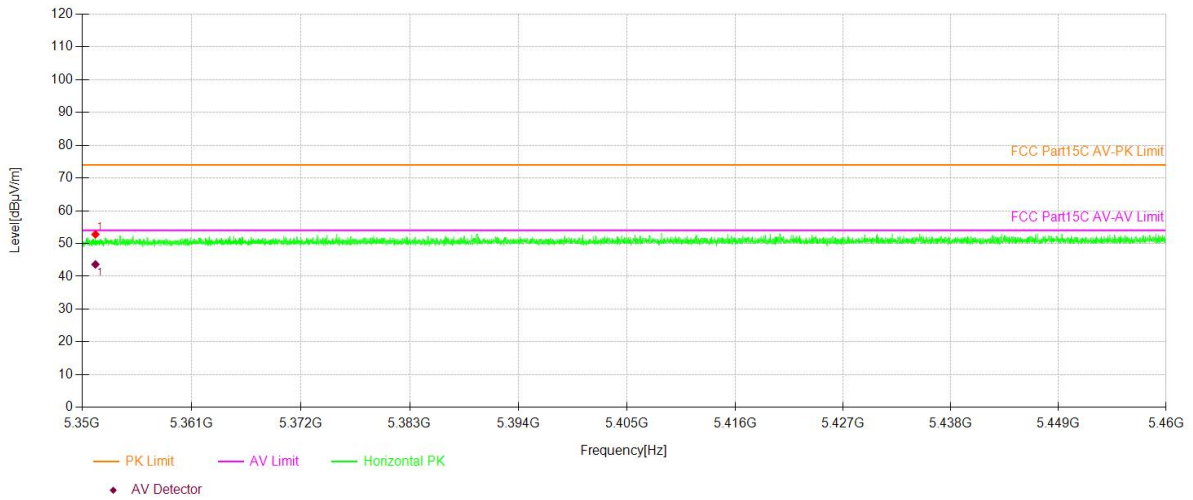


Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5120.34	53.59	36.73	74.00	20.41	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5120.34	43.68	54.00	10.32	AV	Vertical

U-NII -2A

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 64: 5320MHz	Ant.Pol	H



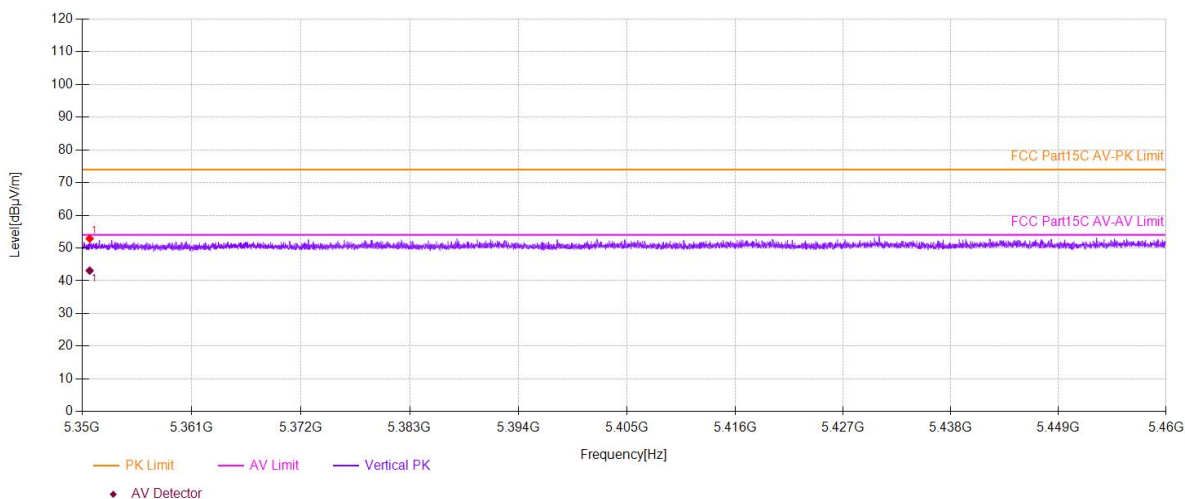
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5351.33	52.79	36.92	74.00	21.21	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5351.33	43.64	54.00	10.36	AV	Horizontal

U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 64: 5320MHz	Ant.Pol	V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.75	52.89	36.92	74.00	21.11	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5350.75	43.10	54.00	10.90	AV	Vertical

■ For Undesirable radiatedSpurious Emission in U-NII -2C

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

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) 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)		
1665.03	V	47.58	-47.65	-27	20.65		
5313.25	V	41.81	-53.42	-27	26.42		
17967.9	V	56.07	-39.16	-27	12.16		
1665.03	H	40.79	-54.44	-27	27.44		
4916.23	H	42.02	-53.21	-27	26.21		
17989.9	H	56.73	-38.5	-27	11.5		

Test mode:		802.11a		Frequency:		Channel 120: 5600MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
1664.03	V	47.45	-47.78	-27	20.78		
5062.23	V	41.96	-53.27	-27	26.27		
17976.9	V	56.44	-38.79	-27	11.79		
1665.03	H	39.69	-55.54	-27	28.54		
5494.26	H	42.56	-52.67	-27	25.67		
17973.9	H	57.38	-37.85	-27	10.85		

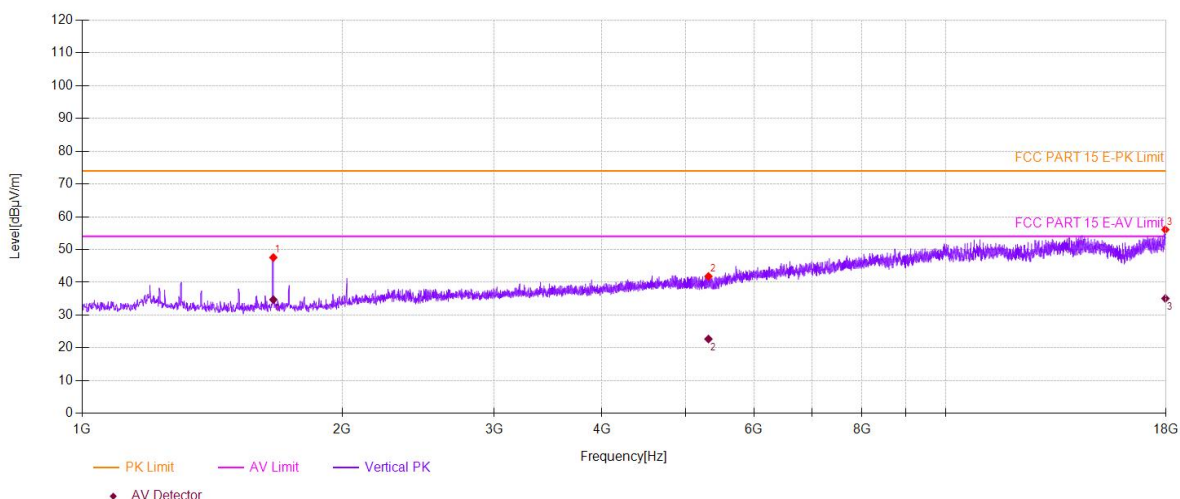
Test mode:		802.11a		Frequency:		Channel 140: 5700MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
1665.03	V	47.55	-47.68	-27	20.68		
5481.26	V	41.95	-53.28	-27	26.28		
17961.9	V	56.78	-38.45	-27	11.45		
1665.03	H	39.28	-55.95	-27	28.95		
5477.26	H	42.83	-52.4	-27	25.4		
17989.9	H	56.84	-38.39	-27	11.39		

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: 802.11a

Frequency:

Channel 100: 5500MHz

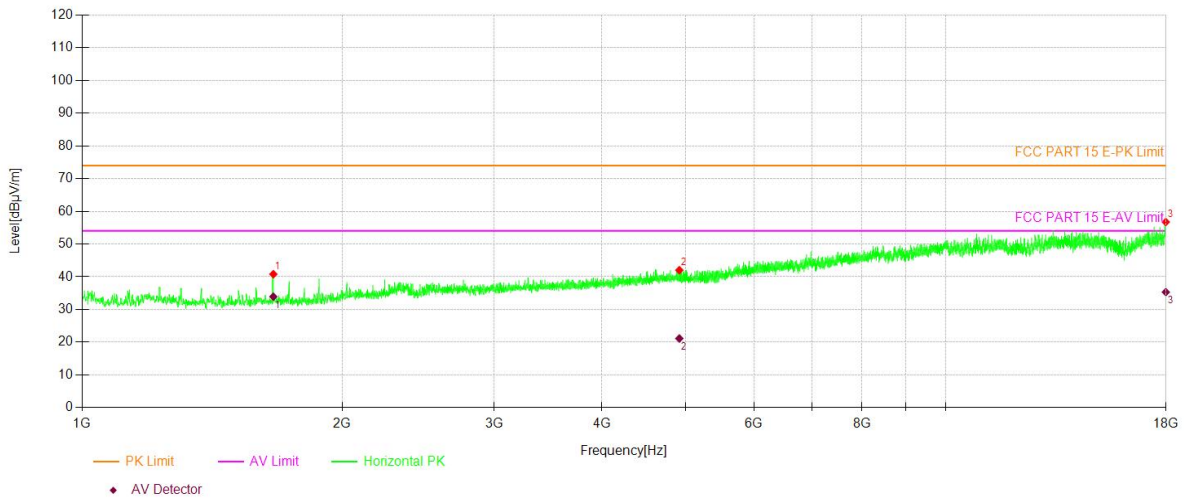


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	47.58	-25.62	74.00	26.42	PK	Vertical
2	5313.25	41.81	-15.75	74.00	32.19	PK	Vertical
3	17967.9	56.07	-0.07	74.00	17.93	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	34.71	54.00	19.29	AV	Vertical
2	5313.25	22.71	54.00	31.29	AV	Vertical
3	17967.9	35.08	54.00	18.92	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	40.79	-25.62	74.00	33.21	PK	Horizontal
2	4916.23	42.02	-16.85	74.00	31.98	PK	Horizontal
3	17989.9	56.73	0.56	74.00	17.27	PK	Horizontal

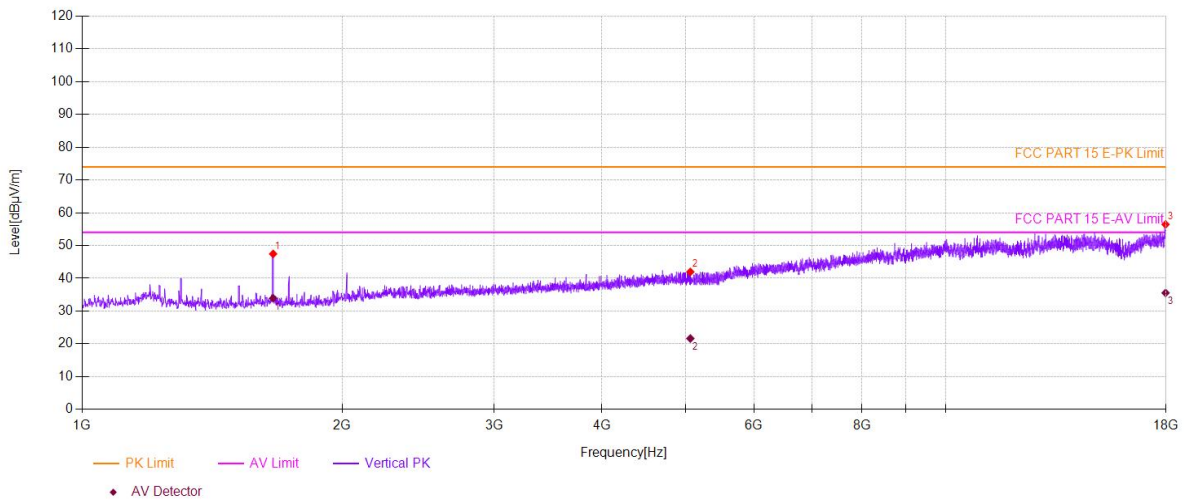
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	33.91	54.00	20.09	AV	Horizontal
2	4916.23	21.15	54.00	32.85	AV	Horizontal
3	17989.9	35.31	54.00	18.69	AV	Horizontal

Test mode: 802.11a

Frequency:

Channel 116: 5580MHz

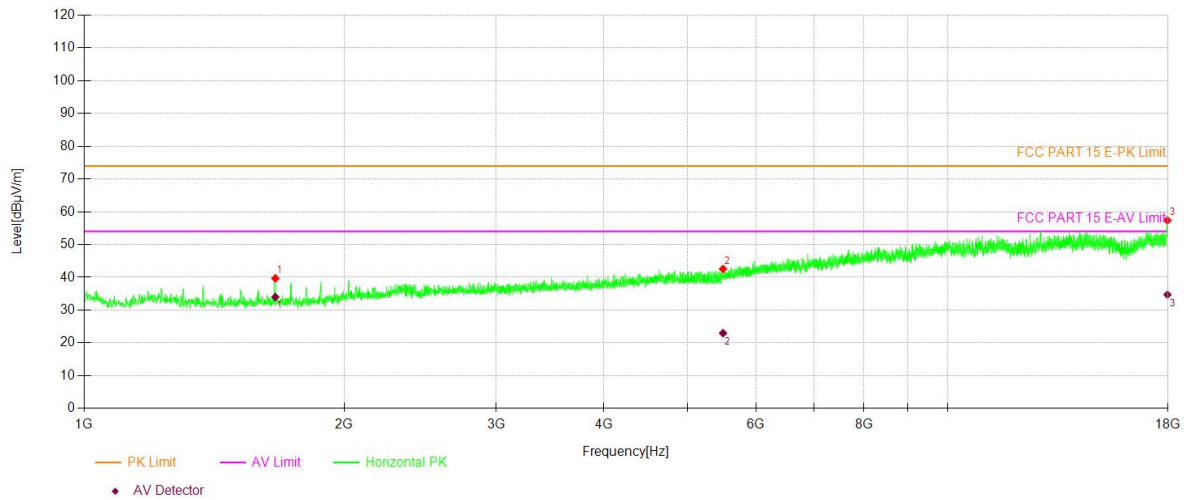


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1664.03	47.45	-25.62	74.00	26.55	PK	Vertical
2	5062.23	41.96	-16.36	74.00	32.04	PK	Vertical
3	17976.9	56.44	0.18	74.00	17.56	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1664.03	33.92	54.00	20.08	AV	Vertical
2	5062.23	21.65	54.00	32.35	AV	Vertical
3	17976.9	35.56	54.00	18.44	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	39.69	-25.62	74.00	34.31	PK	Horizontal
2	5494.26	42.56	-15.29	74.00	31.44	PK	Horizontal
3	17973.9	57.38	0.10	74.00	16.62	PK	Horizontal

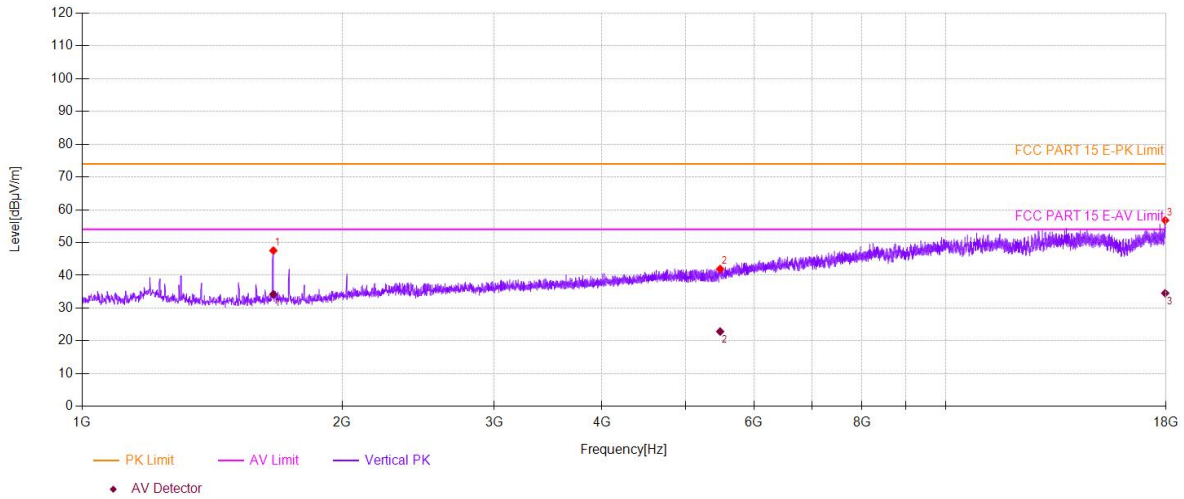
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	34.00	54.00	20.00	AV	Horizontal
2	5494.26	22.98	54.00	31.02	AV	Horizontal
3	17973.9	34.72	54.00	19.28	AV	Horizontal

Test mode: 802.11a

Frequency:

Channel 140: 5700MHz

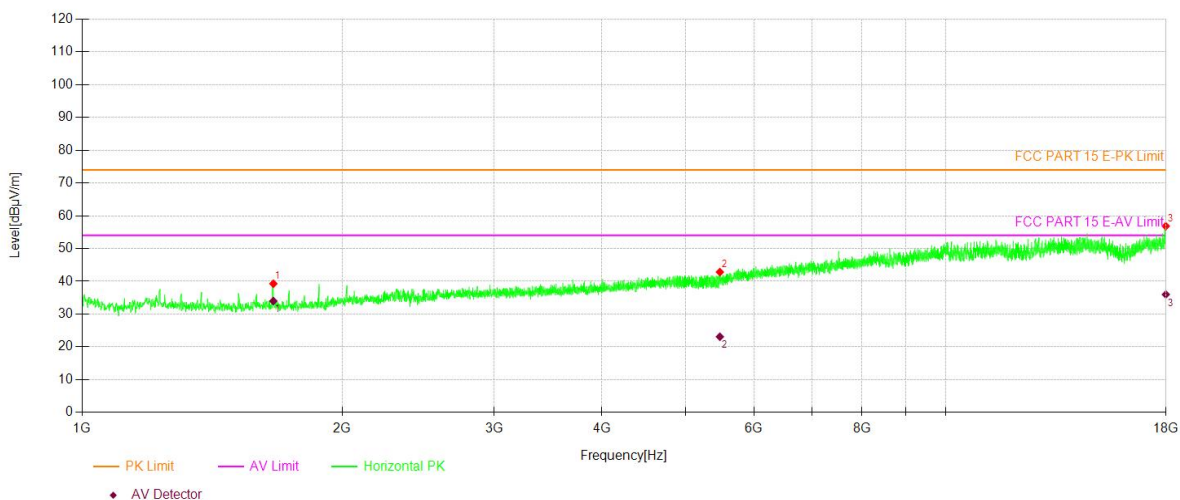


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	47.55	-25.62	74.00	26.45	PK	Vertical
2	5481.26	41.95	-15.29	74.00	32.05	PK	Vertical
3	17961.9	56.78	-0.25	74.00	17.22	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	34.22	54.00	19.78	AV	Vertical
2	5481.26	22.86	54.00	31.14	AV	Vertical
3	17961.9	34.56	54.00	19.44	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	39.28	-25.62	74.00	34.72	PK	Horizontal
2	5477.26	42.83	-15.29	74.00	31.17	PK	Horizontal
3	17989.9	56.84	0.56	74.00	17.16	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.03	33.98	54.00	20.02	AV	Horizontal
2	5477.26	23.10	54.00	30.90	AV	Horizontal
3	17989.9	35.99	54.00	18.01	AV	Horizontal

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&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode: 802.11ac(VHT20) Frequency: Channel 100: 5500MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5469.35	H	52.41	-42.82	-27	Pass
5469.26	V	53.63	-41.6	-27	Pass

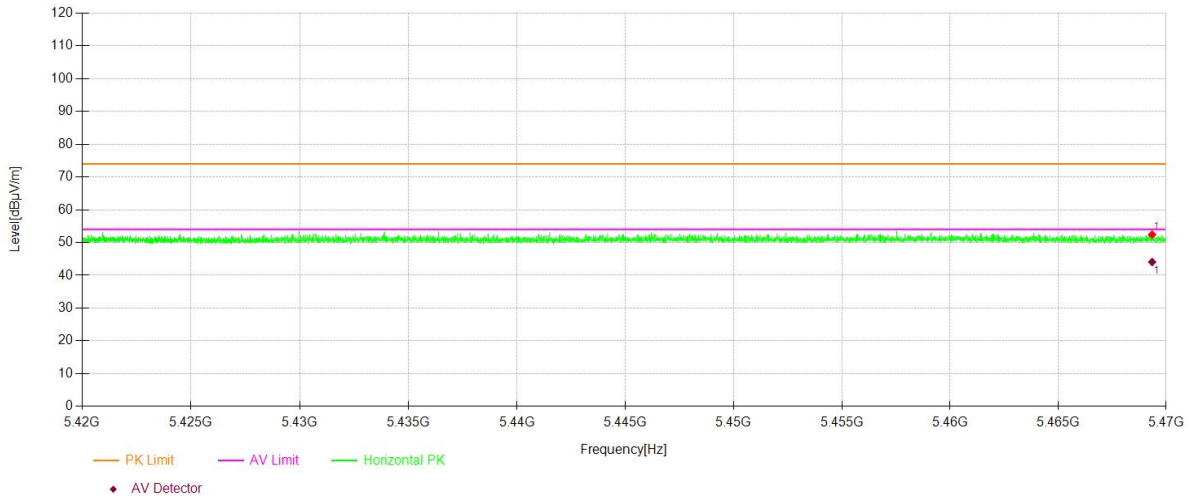
Test mode: 802.11ac(VHT20) Frequency: Channel 140: 5700MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5726.05	H	53.26	-41.97	-27	Pass
5727.85	V	53.80	-41.43	-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

U-NII -2C

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 100: 5500MHz	Ant.Pol	H



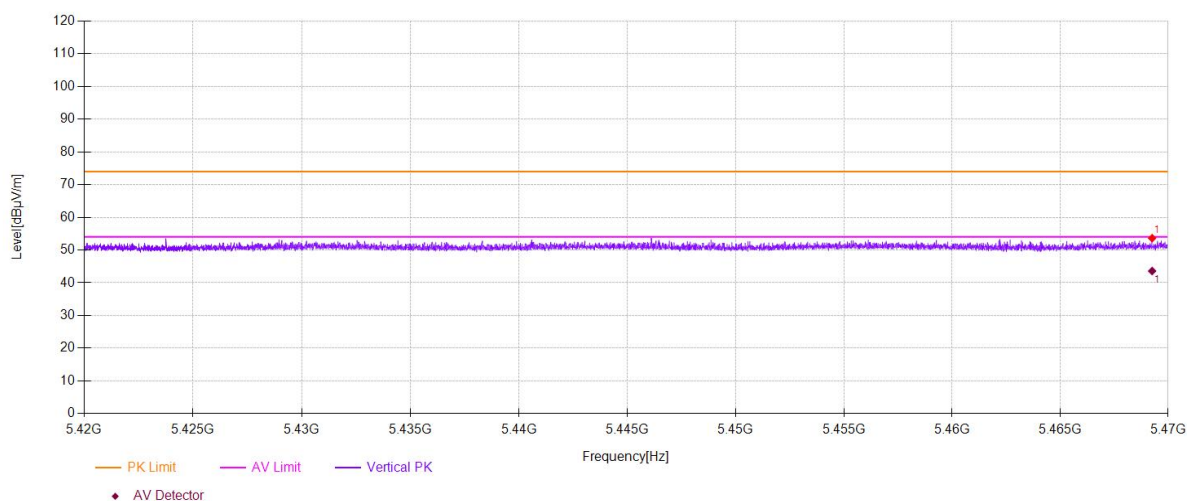
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5469.35	52.41	37.10	74.00	21.59	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5469.35	44.06	54.00	9.94	AV	Horizontal

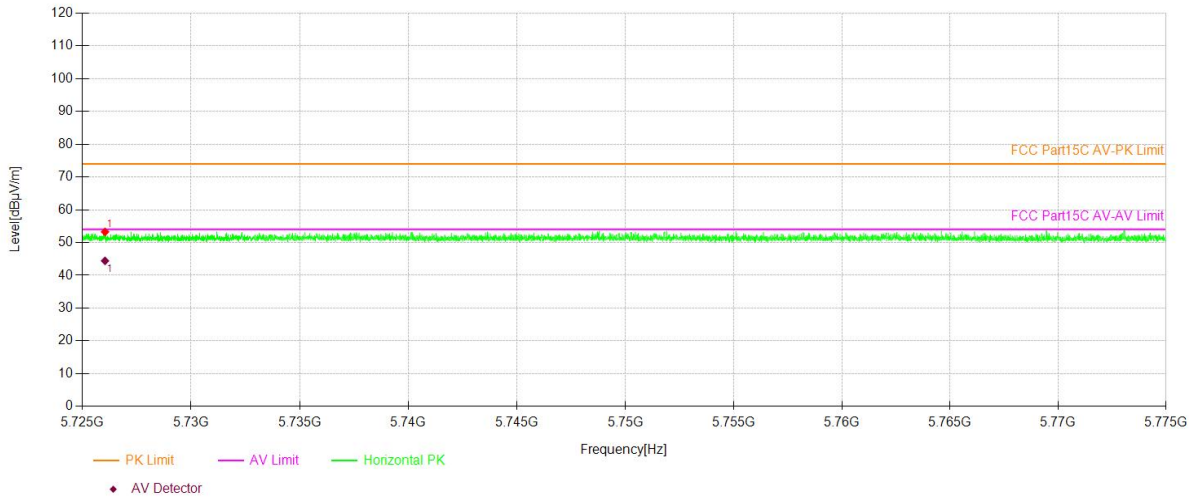
Test Model	U-NII -2C			
	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 100: 5500MHz	Ant.Pol	V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5469.26	53.63	37.10	74.00	20.37	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5469.26	43.59	54.00	10.41	AV	Vertical

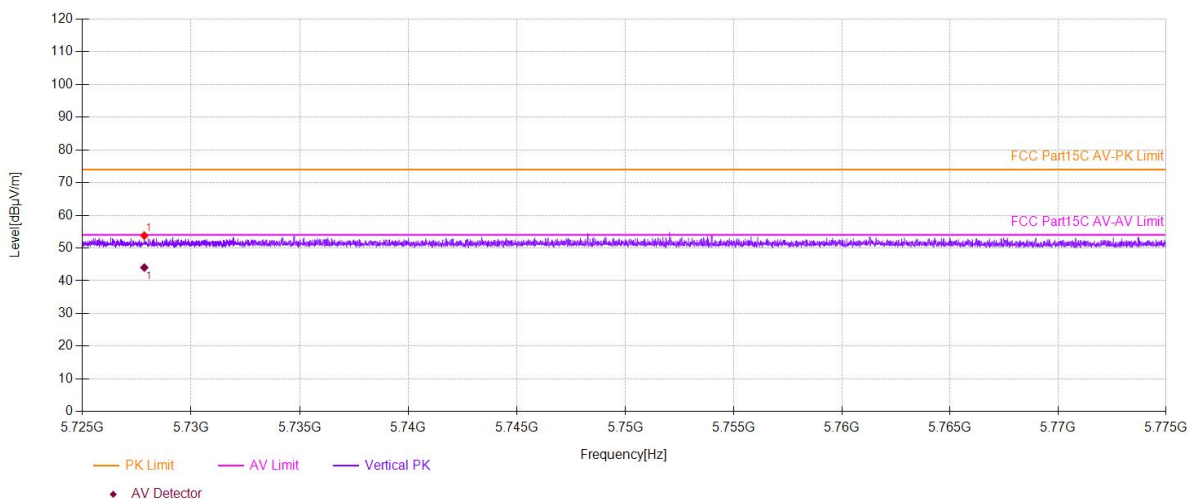
U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 140: 5700MHz	Ant.Pol	H



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5726.05	53.26	37.67	74.00	20.74	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5726.05	44.42	54.00	9.58	AV	Horizontal

U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 140: 5700MHz	Ant.Pol	V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5727.85	53.80	37.68	74.00	20.20	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5727.85	44.02	54.00	9.98	AV	Vertical

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

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

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) 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)		
1665.03	V	47.93	-47.3	-27	20.3		
5484.26	V	42.00	-53.23	-27	26.23		
17970.9	V	57.12	-38.11	-27	11.11		
1665.03	H	39.98	-55.25	-27	28.25		
5473.26	H	43.17	-52.06	-27	25.06		
17983.9	H	56.50	-38.73	-27	11.73		

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)		
1665.03	V	47.50	-47.73	-27	20.73		
5489.26	V	42.11	-53.12	-27	26.12		
17996.9	V	56.67	-38.56	-27	11.56		
1665.03	H	39.52	-55.71	-27	28.71		
5473.26	H	42.39	-52.84	-27	25.84		
17984.9	H	56.34	-38.89	-27	11.89		

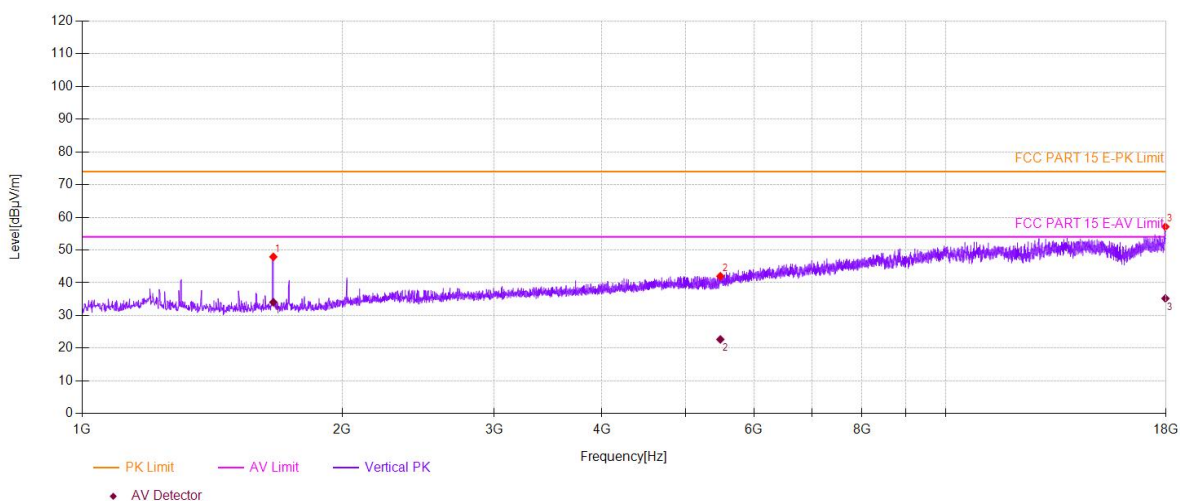
Test mode:		802.11a		Frequency:		Channel 165: 5825MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
1665.03	V	47.74	-47.49	-27	20.49		
4905.22	V	41.92	-53.31	-27	26.31		
17977.9	V	56.14	-39.09	-27	12.09		
1665.03	H	39.59	-55.64	-27	28.64		
5488.26	H	41.97	-53.26	-27	26.26		
17980.9	H	57.35	-37.88	-27	10.88		

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

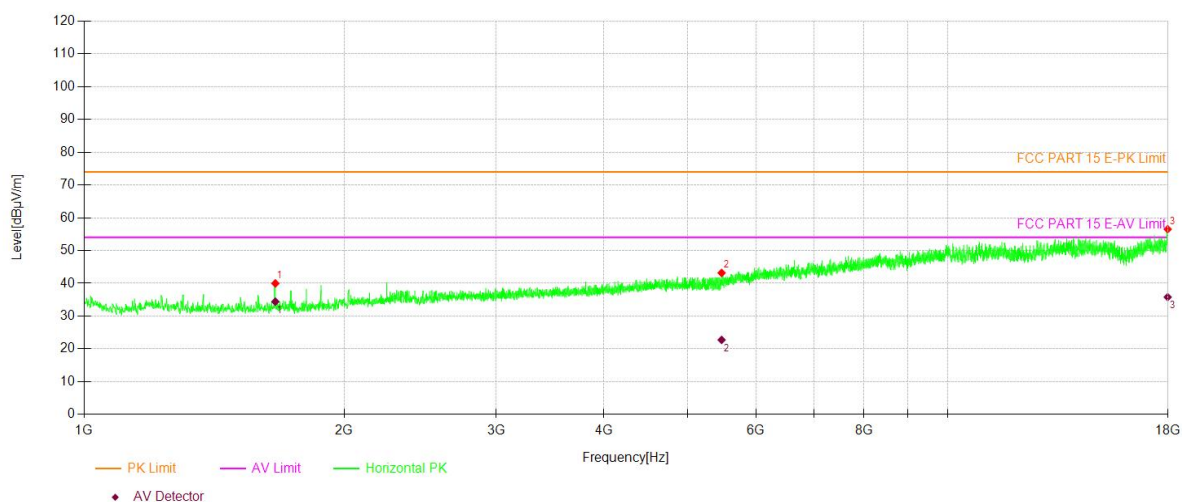


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	47.93	-25.62	74.00	26.07	PK	Vertical
2	5484.26	42.00	-15.29	74.00	32.00	PK	Vertical
3	17970.9	57.12	0.01	74.00	16.88	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.05	54.00	19.95	AV	Vertical
2	5484.2638	22.69	54.00	31.31	AV	Vertical
3	17970.9983	35.21	54.00	18.79	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	39.98	-25.62	74.00	34.02	PK	Horizontal
2	5473.26	43.17	-15.28	74.00	30.83	PK	Horizontal
3	17983.9	56.50	0.39	74.00	17.50	PK	Horizontal

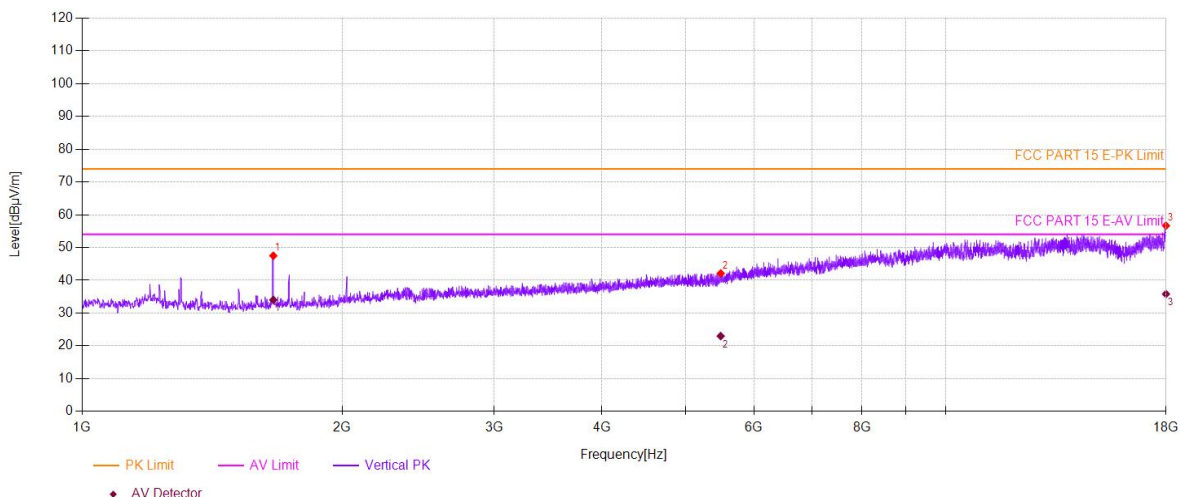
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.41	54.00	19.59	AV	Horizontal
2	5473.2631	22.75	54.00	31.25	AV	Horizontal
3	17983.9991	35.80	54.00	18.20	AV	Horizontal

Test mode: 802.11a

Frequency:

Channel 157: 5785MHz

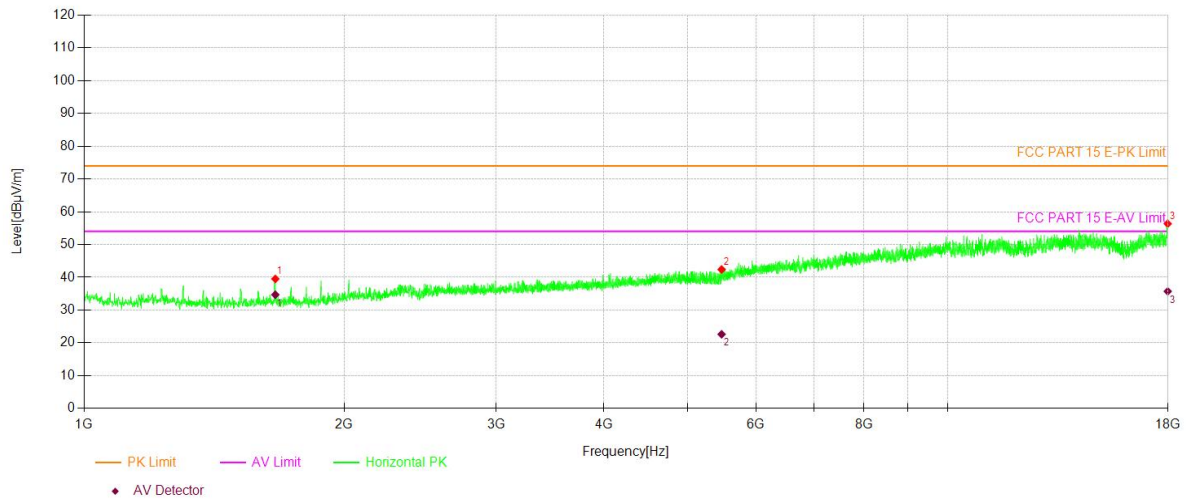


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	47.50	-25.62	74.00	26.50	PK	Vertical
2	5489.26	42.11	-15.29	74.00	31.89	PK	Vertical
3	17996.9998	56.67	0.76	74.00	17.33	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.03	54.00	19.97	AV	Vertical
2	5489.2641	23.01	54.00	30.99	AV	Vertical
3	17996.9998	35.82	54.00	18.18	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	39.52	-25.62	74.00	34.48	PK	Horizontal
2	5473.26	42.39	-15.28	74.00	31.61	PK	Horizontal
3	17984.9	56.34	0.42	74.00	17.66	PK	Horizontal

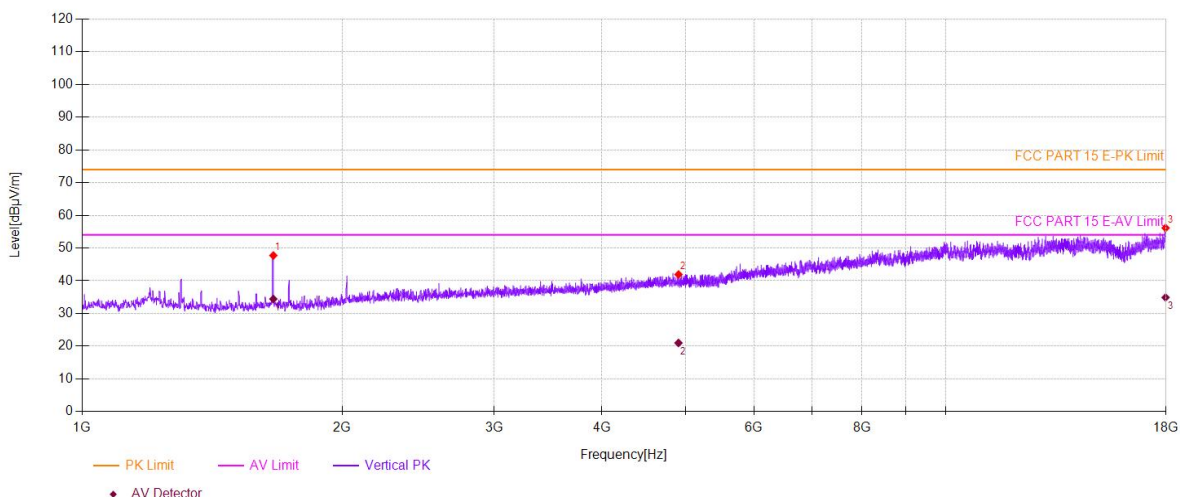
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.70	54.00	19.30	AV	Horizontal
2	5473.2631	22.64	54.00	31.36	AV	Horizontal
3	17984.9991	35.73	54.00	18.27	AV	Horizontal

Test mode:: 802.11a

Frequency:

Channel 165: 5825MHz

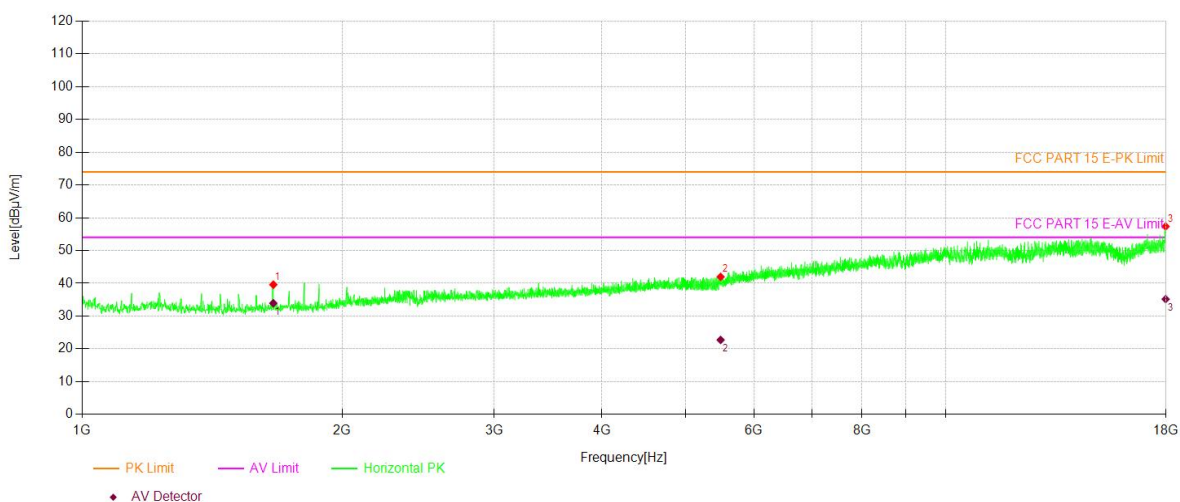


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	47.74	-25.62	74.00	26.26	PK	Vertical
2	4905.22	41.92	-16.88	74.00	32.08	PK	Vertical
3	17977.9987	56.14	0.22	74.00	17.86	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	34.43	54.00	19.57	AV	Vertical
2	4905.2297	21.00	54.00	33.00	AV	Vertical
3	17977.9987	34.90	54.00	19.10	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1665.03	39.59	-25.62	74.00	34.41	PK	Horizontal
2	5488.26	41.97	-15.29	74.00	32.03	PK	Horizontal
3	17980.9	57.35	0.30	74.00	16.65	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	1665.0391	33.94	54.00	20.06	AV	Horizontal
2	5488.264	22.75	54.00	31.25	AV	Horizontal
3	17980.9989	35.18	54.00	18.82	AV	Horizontal

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&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode: 802.11ac(VHT20) Frequency: Channel 149: 5745MHz

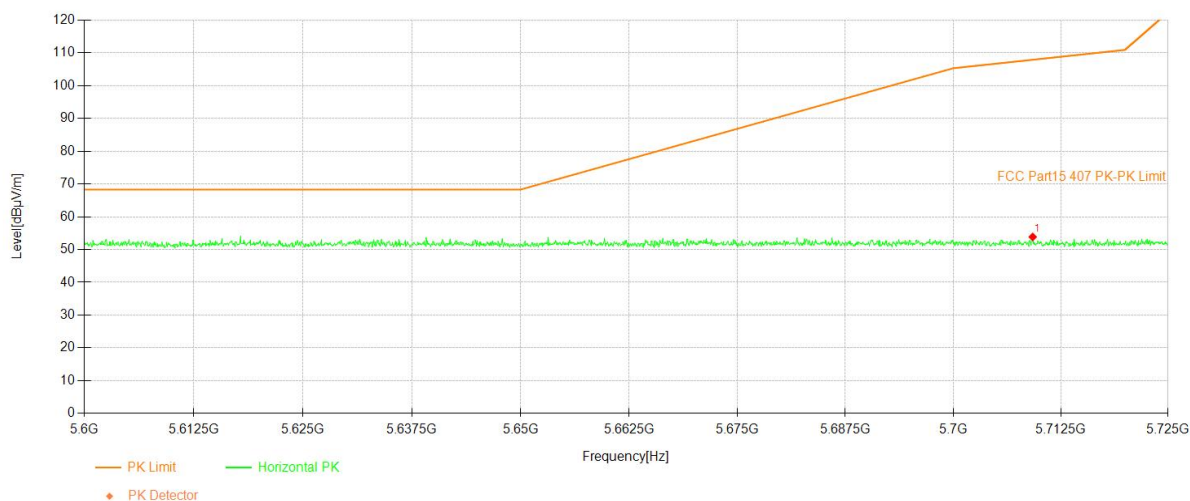
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5709.24	H	53.84	-41.39	12.59	Pass
5724.87	V	54.65	-40.58	26.70	Pass

Test mode: 802.11ac(VHT20) Frequency: Channel 165: 5825MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5861.69	H	53.93	-41.3	13.73	Pass
5864.00	V	53.42	-41.81	13.08	Pass

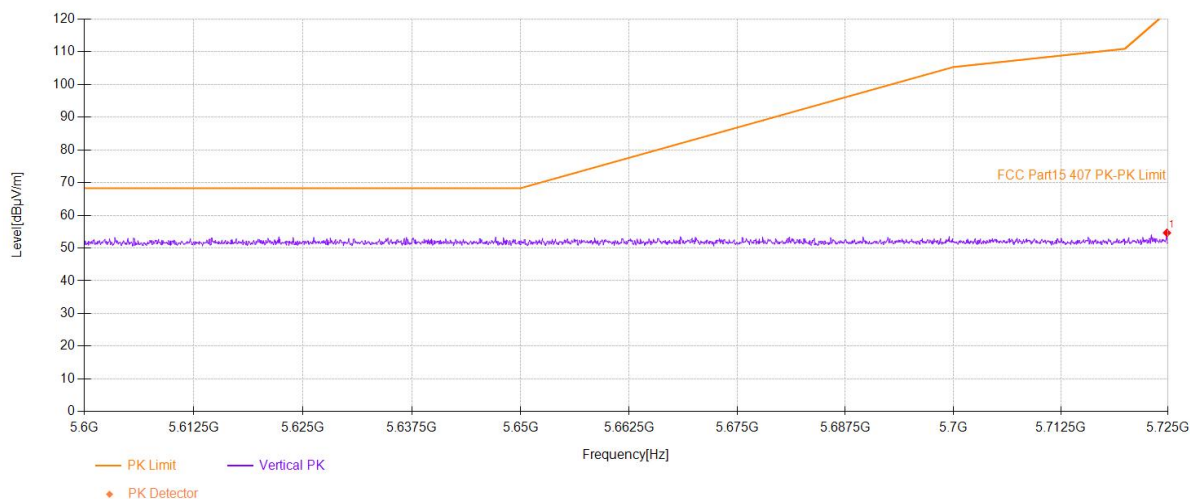
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 149: 5745MHz	Ant.Pol	H



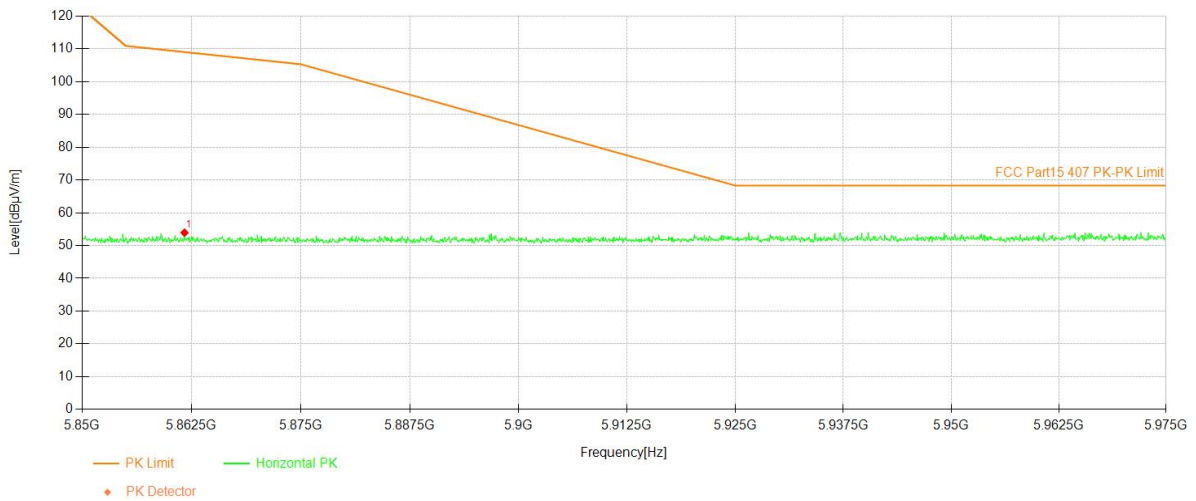
Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5709.24	53.84	37.63	107.89	54.05	PK	Horizontal

U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 149: 5745MHz	Ant.Pol	V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5724.87	54.65	37.67	122.01	67.36	PK	Vertical

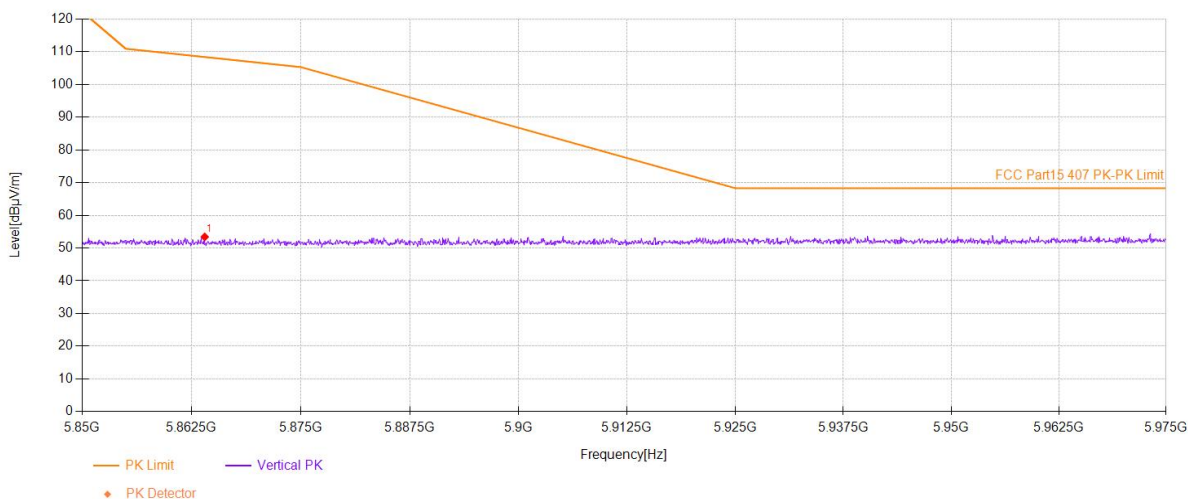
U-NII-3				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 165: 5825MHz	Ant.Pol	H



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5861.69	53.93	37.93	109.02	55.09	PK	Horizontal

U-NII-3

Test Model Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
802.11ac(VHT20) Channel 165: 5825MHz Ant.Pol V

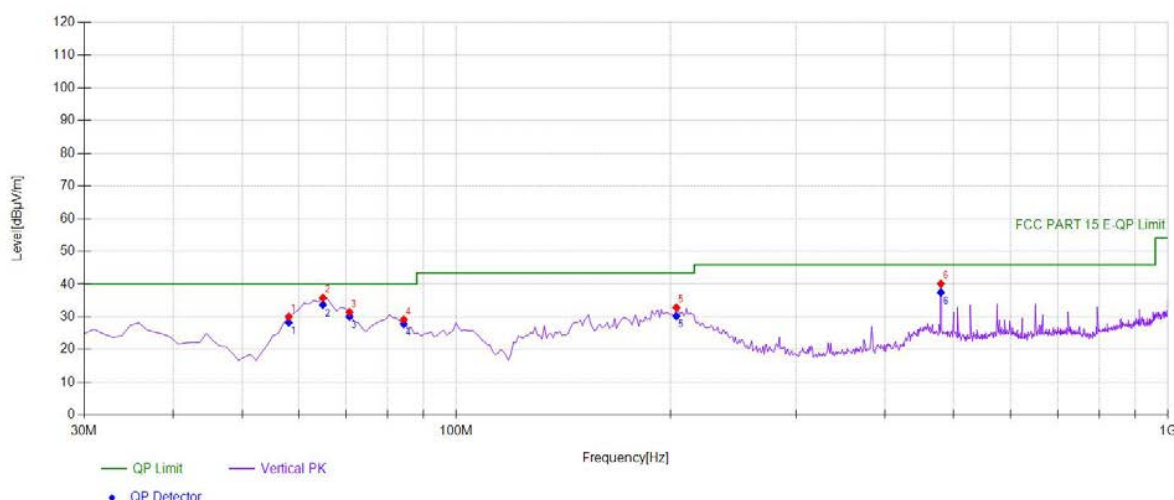


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5864.00	53.42	37.93	108.38	54.96	PK	Vertical

- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Mode:	11AC20 5180
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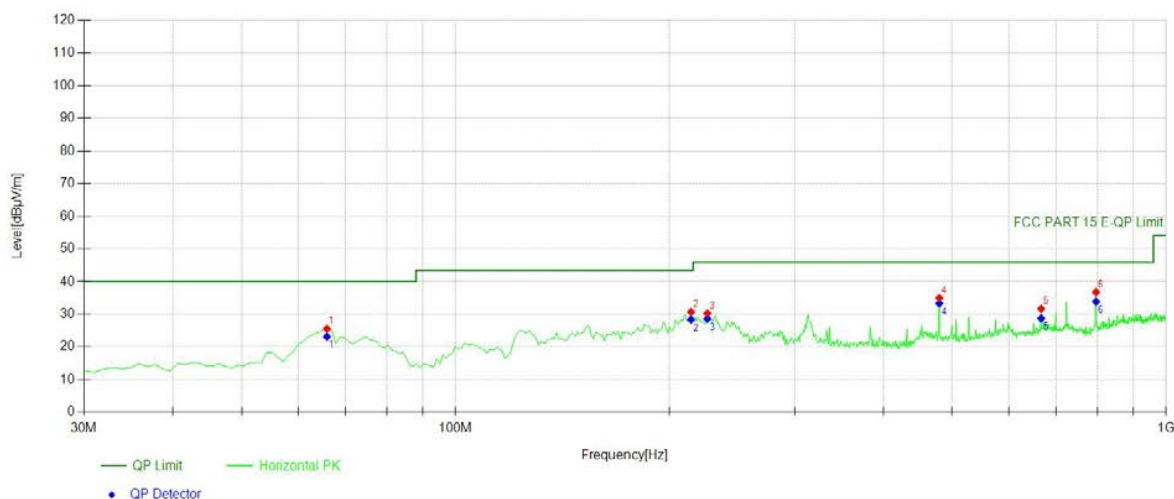
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	58.1582	41.40	-11.36	30.04	PK	40.00	9.96	Vertical
2	64.955	48.08	-12.26	35.82	PK	40.00	4.18	Vertical
3	70.7808	44.52	-13.06	31.46	PK	40.00	8.54	Vertical
4	84.3744	42.99	-13.81	29.18	PK	40.00	10.82	Vertical
5	203.803	44.66	-11.79	32.87	PK	43.50	10.63	Vertical
6	479.559	44.10	-3.95	40.15	PK	46.00	5.85	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	58.1582	-11.36	28.26	40.00	11.74
2	64.955	-12.26	33.71	40.00	6.29
3	70.7808	-13.06	30.07	40.00	9.93
4	84.3744	-13.81	27.79	40.00	12.21
5	203.8038	-11.79	30.20	43.50	13.30
6	479.5596	-3.95	37.48	46.00	8.52

Mode:	11AC20 5180
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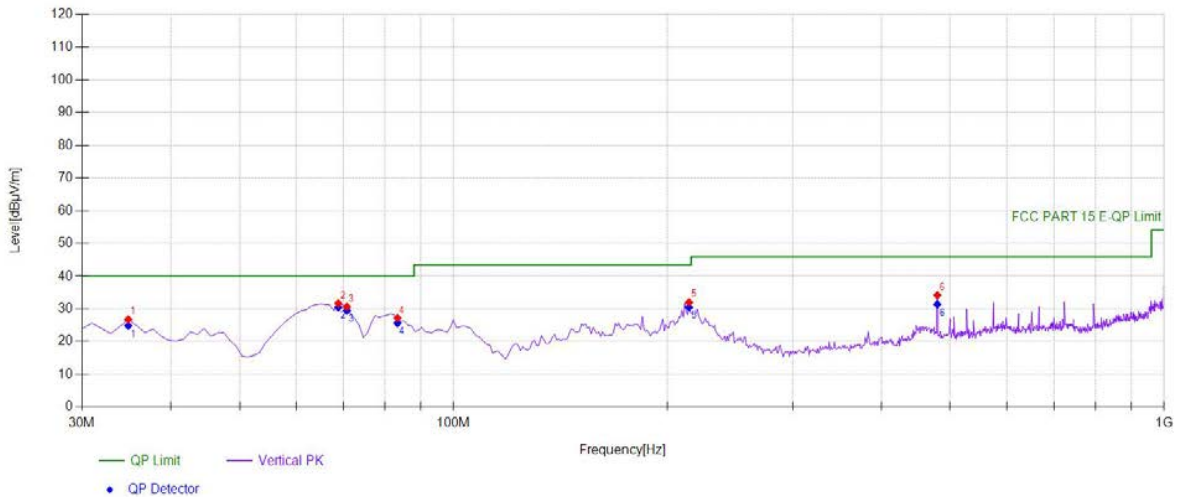
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	65.9259	37.91	-12.40	25.51	PK	40.00	14.49	Horizontal
2	214.484	41.77	-11.05	30.72	PK	43.50	12.78	Horizontal
3	226.136	40.76	-10.53	30.23	PK	46.00	15.77	Horizontal
4	479.559	38.93	-3.95	34.98	PK	46.00	11.02	Horizontal
5	666.957	32.23	-0.57	31.66	PK	46.00	14.34	Horizontal
6	797.067	36.39	0.43	36.82	PK	46.00	9.18	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	65.9259	-12.40	23.13	40.00	16.87
2	214.4845	-11.05	28.34	43.50	15.16
3	226.1361	-10.53	28.57	46.00	17.43
4	479.5596	-3.95	33.32	46.00	12.68
5	666.957	-0.57	28.72	46.00	17.28
6	797.0671	0.43	33.88	46.00	12.12

Mode:	11AC20 5200
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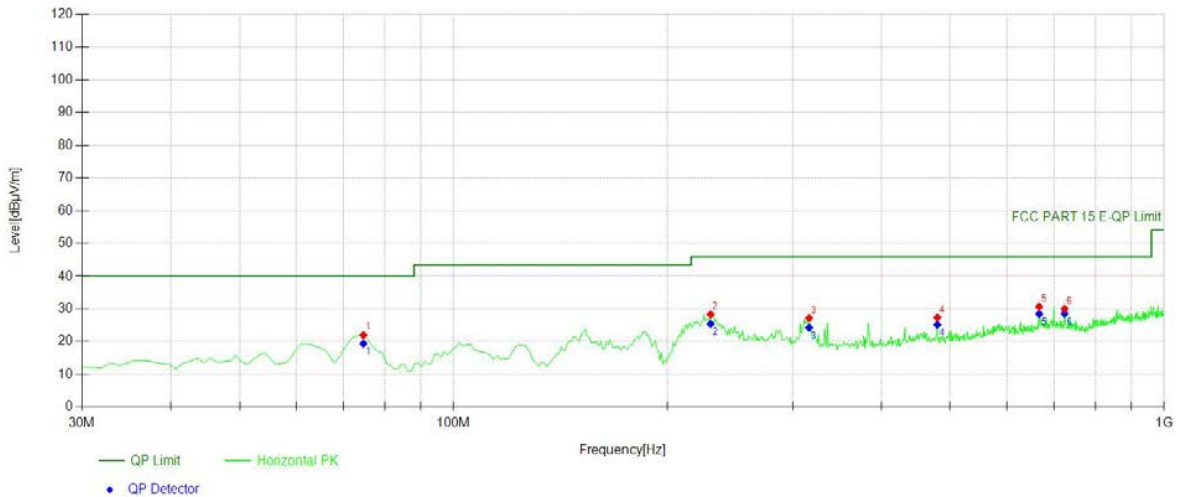
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	39.35	-12.60	26.75	PK	40.00	13.25	Vertical
2	68.8388	44.44	-12.79	31.65	PK	40.00	8.35	Vertical
3	70.7808	43.72	-13.06	30.66	PK	40.00	9.34	Vertical
4	83.4034	41.11	-13.95	27.16	PK	40.00	12.84	Vertical
5	214.484	43.07	-11.05	32.02	PK	43.50	11.48	Vertical
6	479.559	38.15	-3.95	34.20	PK	46.00	11.80	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	34.8549	-12.60	24.82	40.00	15.18
2	68.8388	-12.79	30.44	40.00	9.56
3	70.7808	-13.06	29.45	40.00	10.55
4	83.4034	-13.95	25.62	40.00	14.38
5	214.4845	-11.05	30.48	43.50	13.02
6	479.5596	-3.95	31.38	46.00	14.62

Mode:	11AC20 5200
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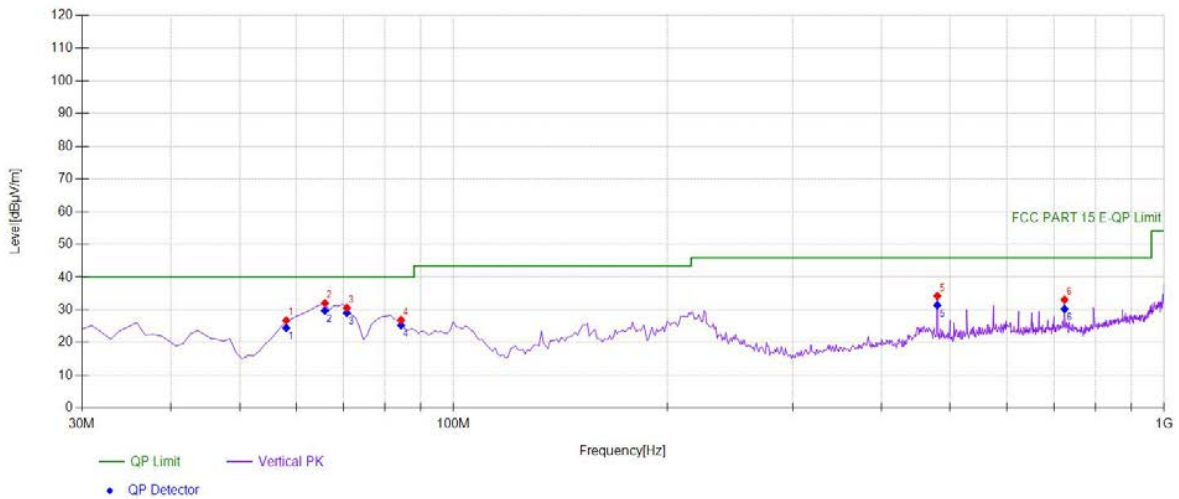
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	74.6647	35.59	-13.65	21.94	PK	40.00	18.06	Horizontal
2	230.02	38.75	-10.42	28.33	PK	46.00	17.67	Horizontal
3	316.436	34.98	-7.84	27.14	PK	46.00	18.86	Horizontal
4	479.559	31.29	-3.95	27.34	PK	46.00	18.66	Horizontal
5	666.957	31.23	-0.57	30.66	PK	46.00	15.34	Horizontal
6	724.244	29.60	0.39	29.99	PK	46.00	16.01	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	74.6647	-13.65	19.35	40.00	20.65
2	230.02	-10.42	25.41	46.00	20.59
3	316.4364	-7.84	24.22	46.00	21.78
4	479.5596	-3.95	25.14	46.00	20.86
5	666.957	-0.57	28.46	46.00	17.54
6	724.2442	0.39	28.51	46.00	17.49

Mode:	11AC20 5240
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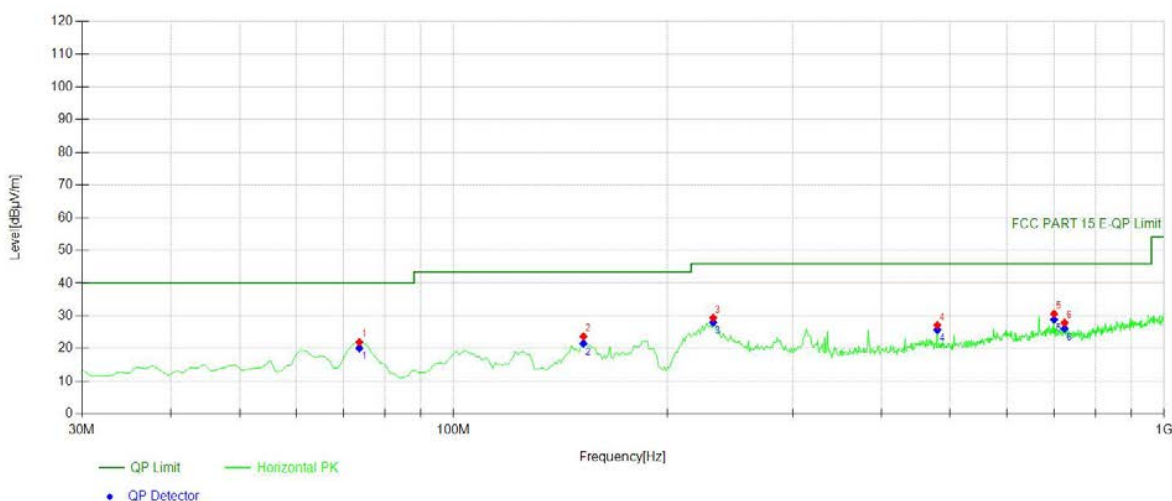
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	58.1582	38.13	-11.36	26.77	PK	40.00	13.23	Vertical
2	65.9259	44.46	-12.40	32.06	PK	40.00	7.94	Vertical
3	70.7808	43.71	-13.06	30.65	PK	40.00	9.35	Vertical
4	84.3744	40.70	-13.81	26.89	PK	40.00	13.11	Vertical
5	479.559	38.23	-3.95	34.28	PK	46.00	11.72	Vertical
6	724.244	32.71	0.39	33.10	PK	46.00	12.90	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	58.1582	-11.36	24.47	40.00	15.53
2	65.9259	-12.40	29.76	40.00	10.24
3	70.7808	-13.06	29.07	40.00	10.93
4	84.3744	-13.81	25.31	40.00	14.69
5	479.5596	-3.95	31.42	46.00	14.58
6	724.2442	0.39	30.24	46.00	15.76

Mode:	11AC20 5240
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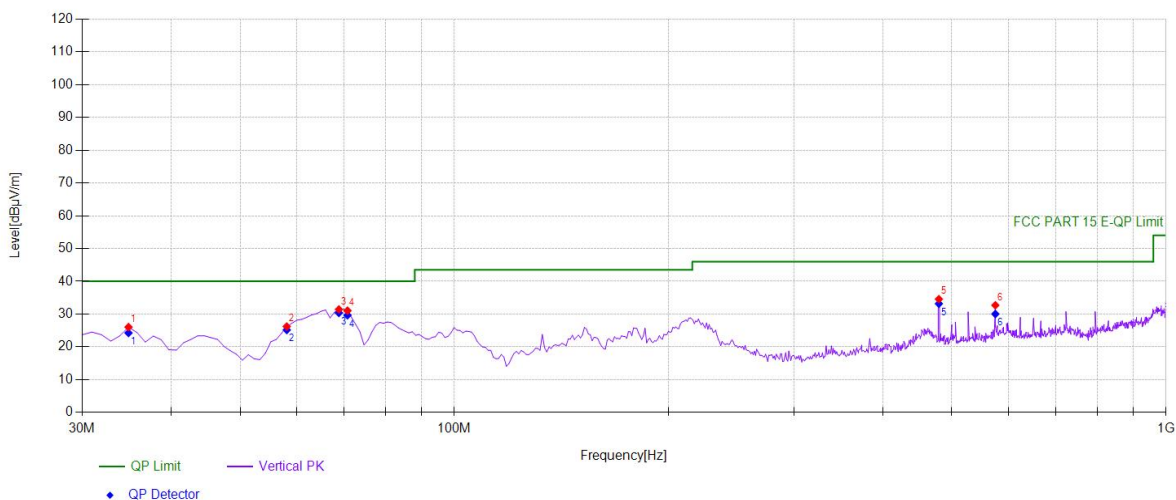
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	73.6937	35.41	-13.50	21.91	PK	40.00	18.09	Horizontal
2	152.342	37.71	-14.03	23.68	PK	43.50	19.82	Horizontal
3	231.962	39.74	-10.36	29.38	PK	46.00	16.62	Horizontal
4	479.559	31.06	-3.95	27.11	PK	46.00	18.89	Horizontal
5	699.97	30.52	0.12	30.64	PK	46.00	15.36	Horizontal
6	724.244	27.47	0.39	27.86	PK	46.00	18.14	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	73.6937	-13.50	20.07	40.00	19.93
2	152.3423	-14.03	21.51	43.50	21.99
3	231.962	-10.36	27.93	46.00	18.07
4	479.5596	-3.95	25.66	46.00	20.34
5	699.97	0.12	28.86	46.00	17.14
6	724.2442	0.39	26.08	46.00	19.92

Mode:	11AC20 5260
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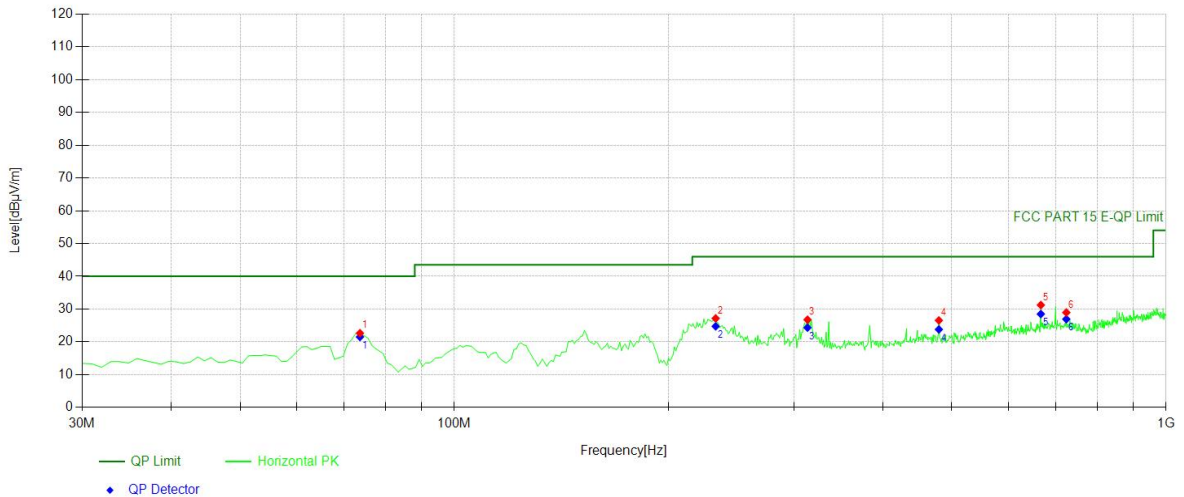
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	38.63	-12.60	26.03	PK	40.00	13.97	Vertical
2	58.1582	37.58	-11.36	26.22	PK	40.00	13.78	Vertical
3	68.8388	44.23	-12.79	31.44	PK	40.00	8.56	Vertical
4	70.7808	44.11	-13.06	31.05	PK	40.00	8.95	Vertical
5	479.5596	38.52	-3.95	34.57	PK	46.00	11.43	Vertical
6	575.6857	34.05	-1.34	32.71	PK	46.00	13.29	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	34.8549	-12.60	24.25	40.00	15.75
2	58.1582	-11.36	25.16	40.00	14.84
3	68.8388	-12.79	30.38	40.00	9.62
4	70.7808	-13.06	29.66	40.00	10.34
5	479.5596	-3.95	33.18	46.00	12.82
6	575.6857	-1.34	30.04	46.00	15.96

Mode:	11AC20 5260
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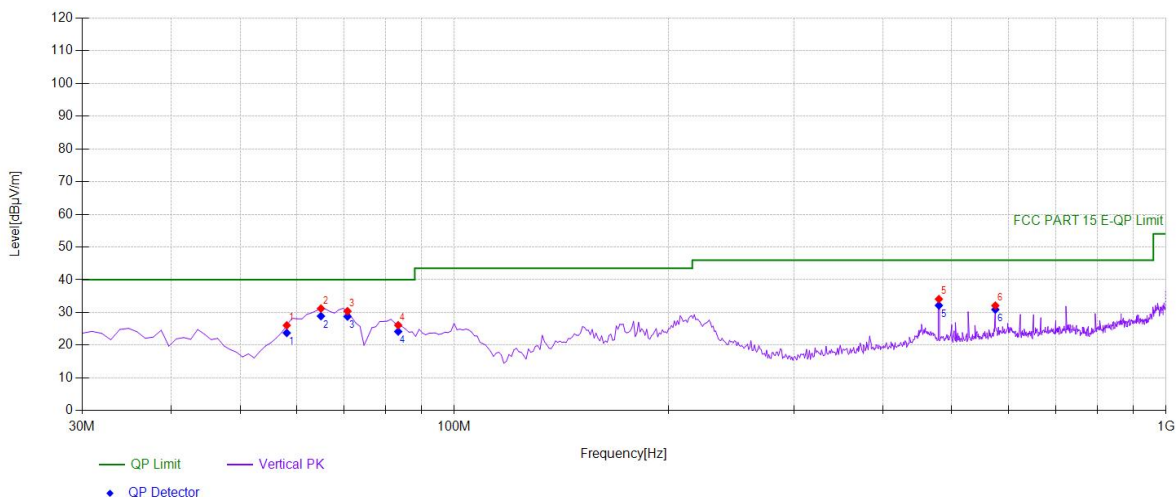
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	73.6937	36.16	-13.50	22.66	PK	40.00	17.34	Horizontal
2	232.9329	37.52	-10.34	27.18	PK	46.00	18.82	Horizontal
3	313.5235	34.65	-7.89	26.76	PK	46.00	19.24	Horizontal
4	479.5596	30.51	-3.95	26.56	PK	46.00	19.44	Horizontal
5	666.957	31.82	-0.57	31.25	PK	46.00	14.75	Horizontal
6	724.2442	28.58	0.39	28.97	PK	46.00	17.03	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	73.6937	-13.50	21.52	40.00	18.48
2	232.9329	-10.34	24.76	46.00	21.24
3	313.5235	-7.89	24.34	46.00	21.66
4	479.5596	-3.95	23.81	46.00	22.19
5	666.957	-0.57	28.50	46.00	17.50
6	724.2442	0.39	26.94	46.00	19.06

Mode:	11AC20 5280
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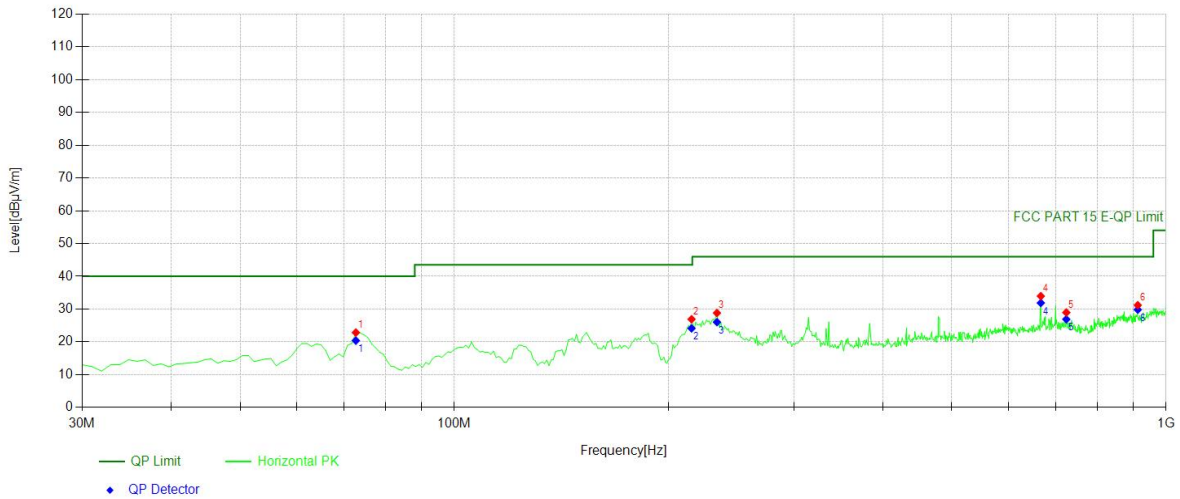
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	58.1582	37.43	-11.36	26.07	PK	40.00	13.93	Vertical
2	64.955	43.47	-12.26	31.21	PK	40.00	8.79	Vertical
3	70.7808	43.45	-13.06	30.39	PK	40.00	9.61	Vertical
4	83.4034	40.07	-13.95	26.12	PK	40.00	13.88	Vertical
5	479.5596	38.05	-3.95	34.10	PK	46.00	11.90	Vertical
6	575.6857	33.45	-1.34	32.11	PK	46.00	13.89	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	58.1582	-11.36	23.75	40.00	16.25
2	64.955	-12.26	28.89	40.00	11.11
3	70.7808	-13.06	28.78	40.00	11.22
4	83.4034	-13.95	24.19	40.00	15.81
5	479.5596	-3.95	32.17	46.00	13.83
6	575.6857	-1.34	30.90	46.00	15.10

Mode:	11AC20 5280
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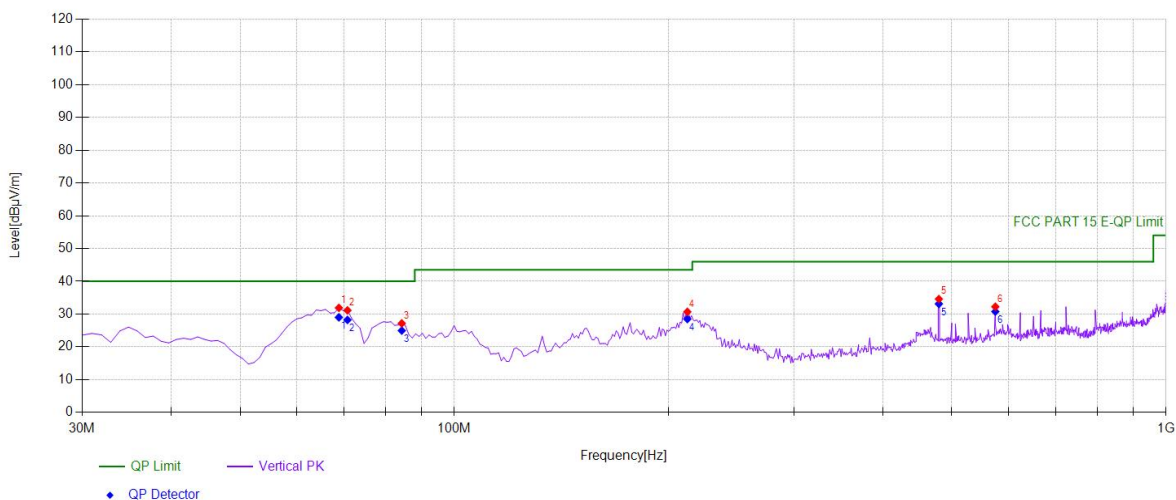
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	72.7227	36.22	-13.36	22.86	PK	40.00	17.14	Horizontal
2	215.4555	37.91	-10.99	26.92	PK	43.50	16.58	Horizontal
3	233.9039	39.12	-10.30	28.82	PK	46.00	17.18	Horizontal
4	666.957	34.53	-0.57	33.96	PK	46.00	12.04	Horizontal
5	724.2442	28.58	0.39	28.97	PK	46.00	17.03	Horizontal
6	912.6126	28.26	2.94	31.20	PK	46.00	14.80	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	72.7227	-13.36	20.40	40.00	19.60
2	215.4555	-10.99	24.13	43.50	19.37
3	233.9039	-10.30	26.03	46.00	19.97
4	666.957	-0.57	31.89	46.00	14.11
5	724.2442	0.39	26.90	46.00	19.10
6	912.6126	2.94	29.84	46.00	16.16

Mode:	11AC20 5320
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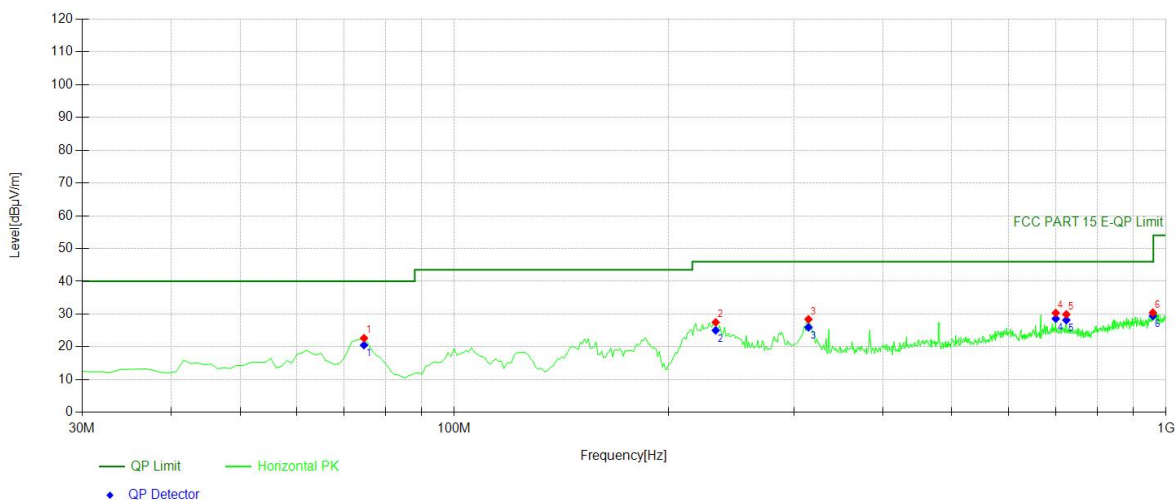
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	68.8388	44.71	-12.79	31.92	PK	40.00	8.08	Vertical
2	70.7808	44.20	-13.06	31.14	PK	40.00	8.86	Vertical
3	84.3744	40.98	-13.81	27.17	PK	40.00	12.83	Vertical
4	212.5425	41.87	-11.18	30.69	PK	43.50	12.81	Vertical
5	479.5596	38.55	-3.95	34.60	PK	46.00	11.40	Vertical
6	575.6857	33.59	-1.34	32.25	PK	46.00	13.75	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	68.8388	-12.79	29.01	40.00	10.99
2	70.7808	-13.06	28.23	40.00	11.77
3	84.3744	-13.81	24.98	40.00	15.02
4	212.5425	-11.18	28.50	43.50	15.00
5	479.5596	-3.95	33.13	46.00	12.87
6	575.6857	-1.34	30.78	46.00	15.22

Mode:	11AC20 5320
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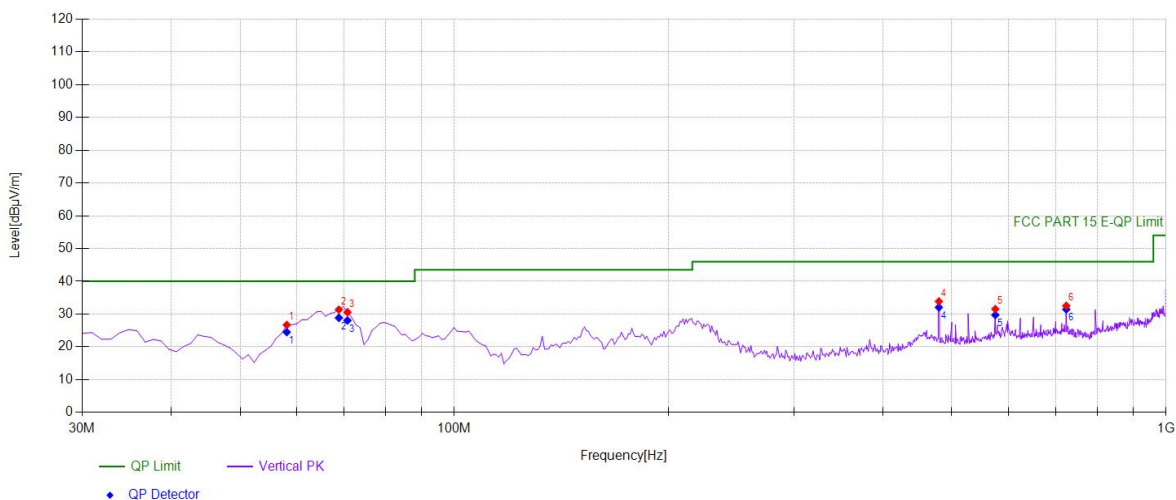
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	74.6647	36.32	-13.65	22.67	PK	40.00	17.33	Horizontal
2	232.9329	37.83	-10.34	27.49	PK	46.00	18.51	Horizontal
3	314.4945	36.30	-7.87	28.43	PK	46.00	17.57	Horizontal
4	699.97	30.22	0.12	30.34	PK	46.00	15.66	Horizontal
5	724.2442	29.52	0.39	29.91	PK	46.00	16.09	Horizontal
6	958.2482	27.20	3.25	30.45	PK	46.00	15.55	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	74.6647	-13.65	20.55	40.00	19.45
2	232.9329	-10.34	25.04	46.00	20.96
3	314.4945	-7.87	25.98	46.00	20.02
4	699.97	0.12	28.61	46.00	17.39
5	724.2442	0.39	28.18	46.00	17.82
6	958.2482	3.25	29.44	46.00	16.56

Mode:	11AC20 5500
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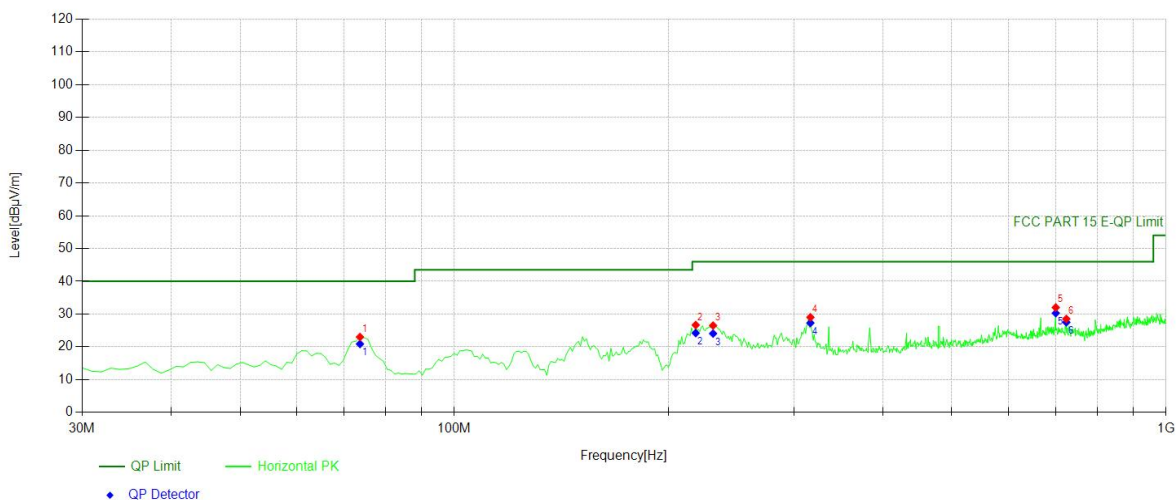
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	58.1582	38.06	-11.36	26.70	PK	40.00	13.30	Vertical
2	68.8388	44.17	-12.79	31.38	PK	40.00	8.62	Vertical
3	70.7808	43.65	-13.06	30.59	PK	40.00	9.41	Vertical
4	479.5596	37.82	-3.95	33.87	PK	46.00	12.13	Vertical
5	575.6857	32.88	-1.34	31.54	PK	46.00	14.46	Vertical
6	724.2442	32.14	0.39	32.53	PK	46.00	13.47	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	58.1582	-11.36	24.51	40.00	15.49
2	68.8388	-12.79	28.86	40.00	11.14
3	70.7808	-13.06	28.07	40.00	11.93
4	479.5596	-3.95	32.07	46.00	13.93
5	575.6857	-1.34	29.74	46.00	16.26
6	724.2442	0.39	31.45	46.00	14.55

Mode:	11AC20 5500
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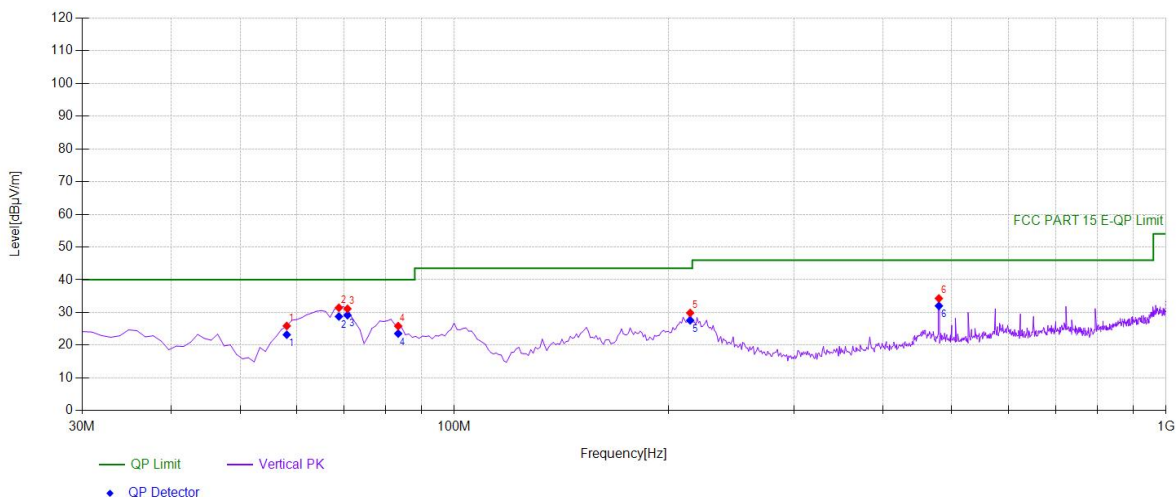
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	73.6937	36.52	-13.50	23.02	PK	40.00	16.98	Horizontal
2	218.3684	37.47	-10.80	26.67	PK	46.00	19.33	Horizontal
3	230.991	36.92	-10.40	26.52	PK	46.00	19.48	Horizontal
4	316.4364	36.87	-7.84	29.03	PK	46.00	16.97	Horizontal
5	699.97	31.91	0.12	32.03	PK	46.00	13.97	Horizontal
6	724.2442	28.14	0.39	28.53	PK	46.00	17.47	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	73.6937	-13.50	20.90	40.00	19.10
2	218.3684	-10.80	24.22	46.00	21.78
3	230.991	-10.40	24.07	46.00	21.93
4	316.4364	-7.84	27.30	46.00	18.70
5	699.97	0.12	30.30	46.00	15.70
6	724.2442	0.39	27.51	46.00	18.49

Mode:	11AC20 5580
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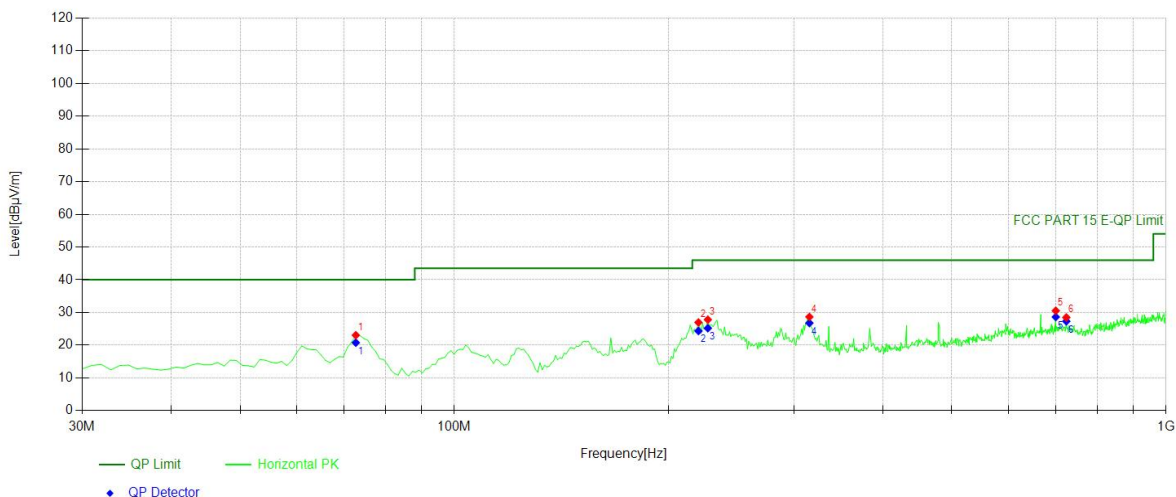
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	58.1582	37.25	-11.36	25.89	PK	40.00	14.11	Vertical
2	68.8388	44.24	-12.79	31.45	PK	40.00	8.55	Vertical
3	70.7808	44.19	-13.06	31.13	PK	40.00	8.87	Vertical
4	83.4034	39.79	-13.95	25.84	PK	40.00	14.16	Vertical
5	214.4845	40.93	-11.05	29.88	PK	43.50	13.62	Vertical
6	479.5596	38.25	-3.95	34.30	PK	46.00	11.70	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	58.1582	-11.36	23.22	40.00	16.78
2	68.8388	-12.79	28.78	40.00	11.22
3	70.7808	-13.06	29.18	40.00	10.82
4	83.4034	-13.95	23.56	40.00	16.44
5	214.4845	-11.05	27.60	43.50	15.90
6	479.5596	-3.95	32.02	46.00	13.98

Mode:	11AC20 5580
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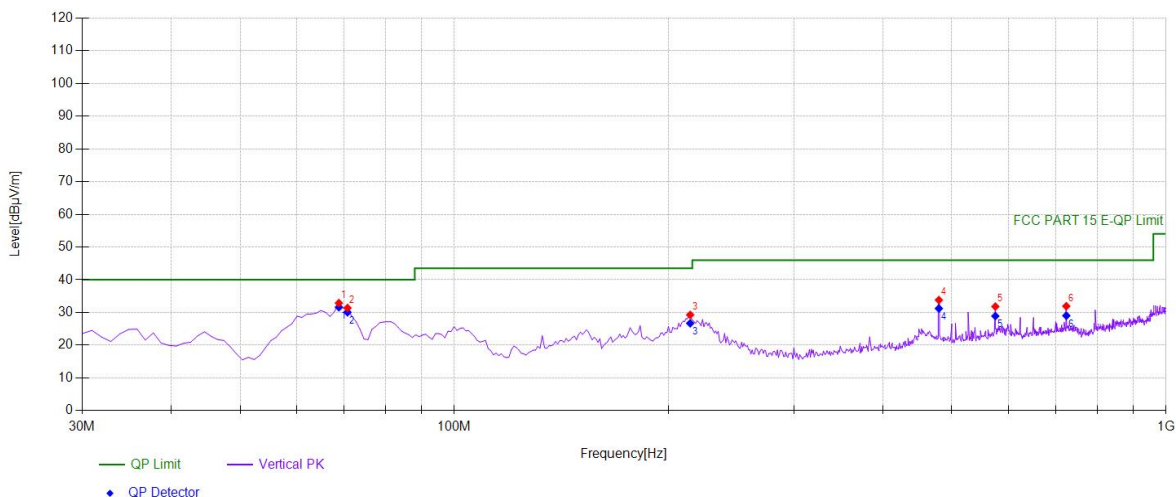
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	72.7227	36.42	-13.36	23.06	PK	40.00	16.94	Horizontal
2	220.3103	37.65	-10.68	26.97	PK	46.00	19.03	Horizontal
3	227.1071	38.32	-10.50	27.82	PK	46.00	18.18	Horizontal
4	315.4655	36.52	-7.86	28.66	PK	46.00	17.34	Horizontal
5	699.97	30.41	0.12	30.53	PK	46.00	15.47	Horizontal
6	724.2442	28.10	0.39	28.49	PK	46.00	17.51	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	72.7227	-13.36	20.78	40.00	19.22
2	220.3103	-10.68	24.36	46.00	21.64
3	227.1071	-10.50	25.21	46.00	20.79
4	315.4655	-7.86	26.77	46.00	19.23
5	699.97	0.12	28.64	46.00	17.36
6	724.2442	0.39	27.32	46.00	18.68

Mode:	11AC20 5700
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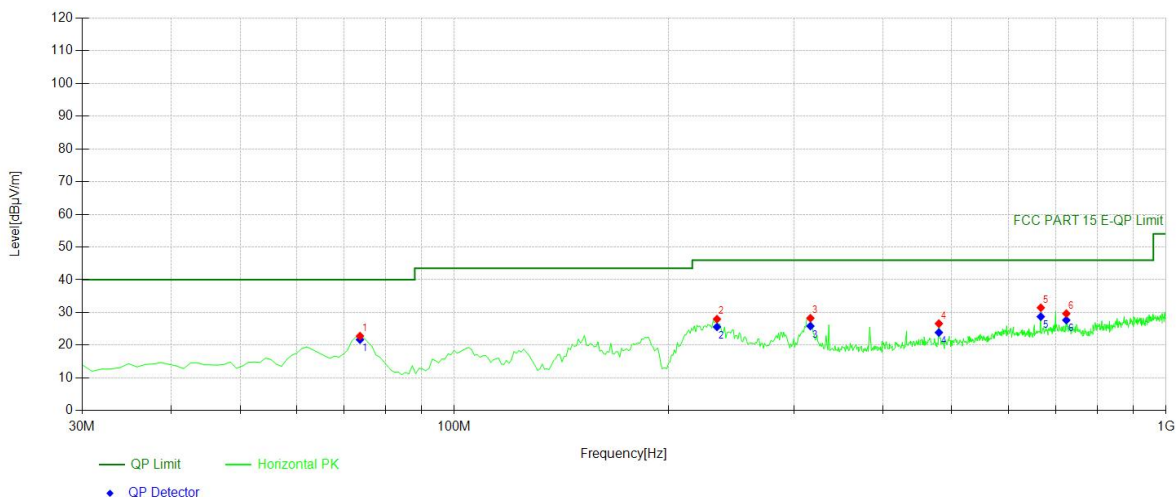
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	68.8388	45.69	-12.79	32.90	PK	40.00	7.10	Vertical
2	70.7808	44.43	-13.06	31.37	PK	40.00	8.63	Vertical
3	214.4845	40.33	-11.05	29.28	PK	43.50	14.22	Vertical
4	479.5596	37.76	-3.95	33.81	PK	46.00	12.19	Vertical
5	575.6857	33.15	-1.34	31.81	PK	46.00	14.19	Vertical
6	724.2442	31.54	0.39	31.93	PK	46.00	14.07	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	68.8388	-12.79	31.61	40.00	8.39
2	70.7808	-13.06	30.08	40.00	9.92
3	214.4845	-11.05	26.70	43.50	16.80
4	479.5596	-3.95	31.23	46.00	14.77
5	575.6857	-1.34	28.91	46.00	17.09
6	724.2442	0.39	29.03	46.00	16.97

Mode:	11AC20 5700
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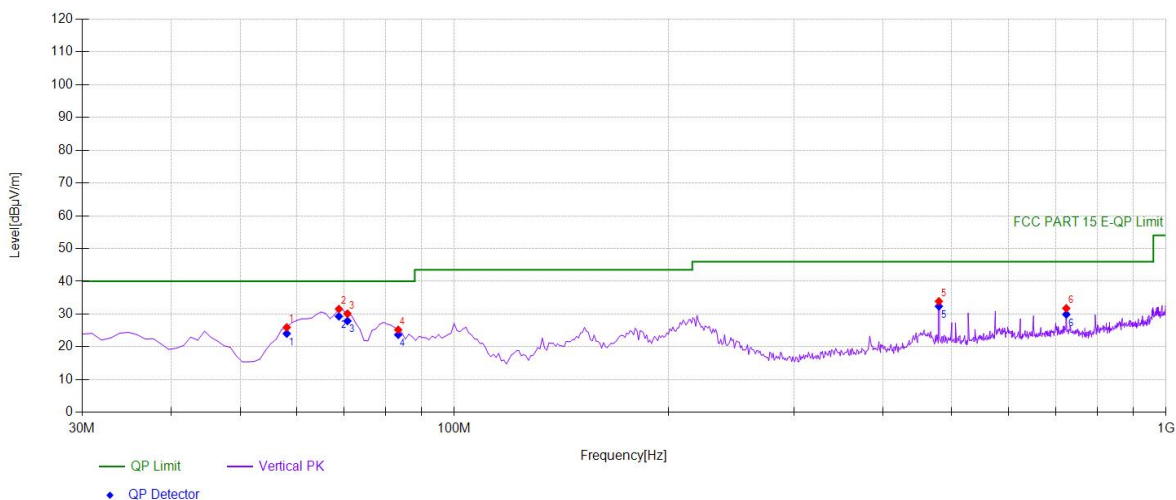
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	73.6937	36.31	-13.50	22.81	PK	40.00	17.19	Horizontal
2	233.9039	38.29	-10.30	27.99	PK	46.00	18.01	Horizontal
3	316.4364	36.10	-7.84	28.26	PK	46.00	17.74	Horizontal
4	479.5596	30.56	-3.95	26.61	PK	46.00	19.39	Horizontal
5	666.957	32.03	-0.57	31.46	PK	46.00	14.54	Horizontal
6	724.2442	29.28	0.39	29.67	PK	46.00	16.33	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	73.6937	-13.50	21.69	40.00	18.31
2	233.9039	-10.30	25.59	46.00	20.41
3	316.4364	-7.84	25.86	46.00	20.14
4	479.5596	-3.95	23.88	46.00	22.12
5	666.957	-0.57	28.73	46.00	17.27
6	724.2442	0.39	27.66	46.00	18.34

Mode:	11AC20 5745
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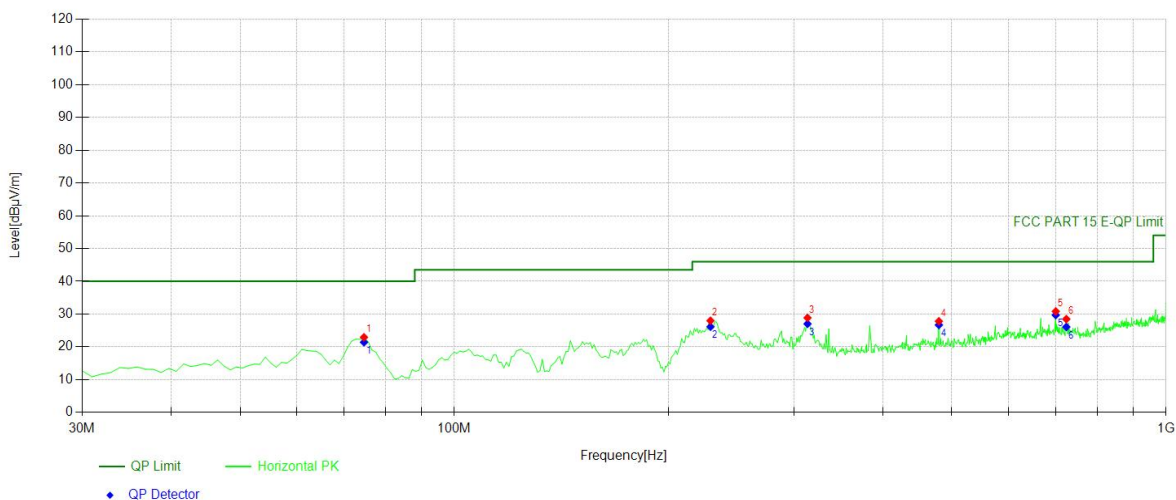
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	58.1582	37.32	-11.36	25.96	PK	40.00	14.04	Vertical
2	68.8388	44.35	-12.79	31.56	PK	40.00	8.44	Vertical
3	70.7808	43.20	-13.06	30.14	PK	40.00	9.86	Vertical
4	83.4034	39.18	-13.95	25.23	PK	40.00	14.77	Vertical
5	479.5596	37.85	-3.95	33.90	PK	46.00	12.10	Vertical
6	724.2442	31.38	0.39	31.77	PK	46.00	14.23	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	58.1582	-11.36	24.05	40.00	15.95
2	68.8388	-12.79	29.32	40.00	10.68
3	70.7808	-13.06	27.90	40.00	12.10
4	83.4034	-13.95	23.71	40.00	16.29
5	479.5596	-3.95	32.38	46.00	13.62
6	724.2442	0.39	29.92	46.00	16.08

Mode:	11AC20 5745
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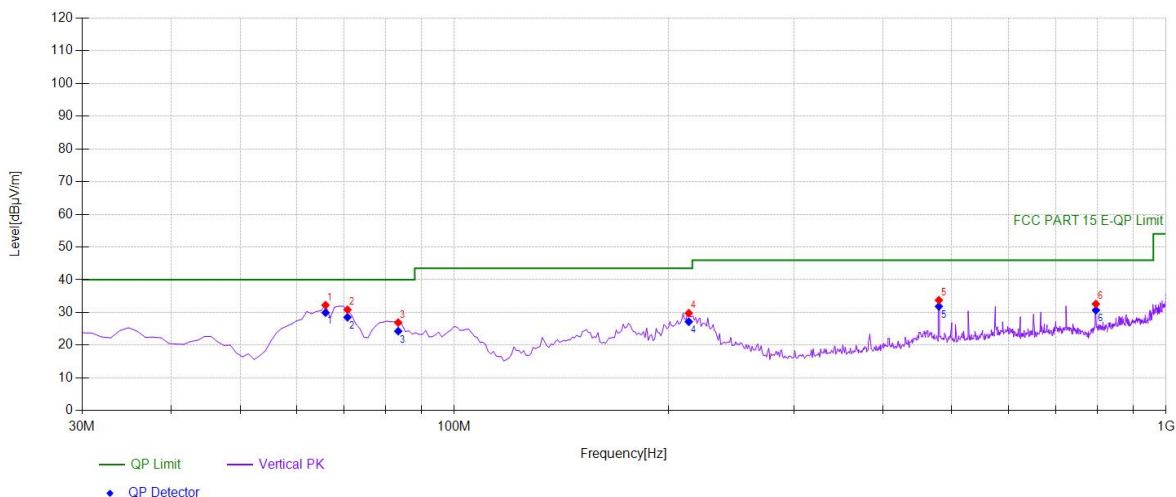
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	74.6647	36.59	-13.65	22.94	PK	40.00	17.06	Horizontal
2	229.049	38.43	-10.44	27.99	PK	46.00	18.01	Horizontal
3	313.5235	36.76	-7.89	28.87	PK	46.00	17.13	Horizontal
4	479.5596	31.78	-3.95	27.83	PK	46.00	18.17	Horizontal
5	699.97	30.72	0.12	30.84	PK	46.00	15.16	Horizontal
6	724.2442	28.10	0.39	28.49	PK	46.00	17.51	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	74.6647	-13.65	21.42	40.00	18.58
2	229.049	-10.44	26.15	46.00	19.85
3	313.5235	-7.89	27.03	46.00	18.97
4	479.5596	-3.95	26.70	46.00	19.30
5	699.97	0.12	29.71	46.00	16.29
6	724.2442	0.39	26.08	46.00	19.92

Mode:	11AC20 5785
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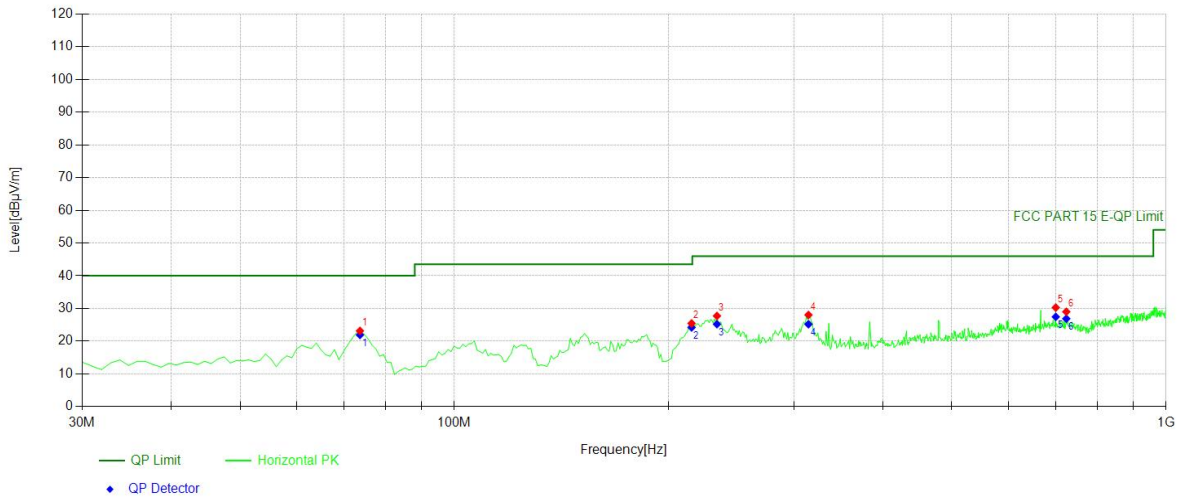
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	65.9259	44.66	-12.40	32.26	PK	40.00	7.74	Vertical
2	70.7808	43.90	-13.06	30.84	PK	40.00	9.16	Vertical
3	83.4034	40.88	-13.95	26.93	PK	40.00	13.07	Vertical
4	213.5135	40.93	-11.12	29.81	PK	43.50	13.69	Vertical
5	479.5596	37.71	-3.95	33.76	PK	46.00	12.24	Vertical
6	797.0671	32.18	0.43	32.61	PK	46.00	13.39	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	65.9259	-12.40	29.96	40.00	10.04
2	70.7808	-13.06	28.54	40.00	11.46
3	83.4034	-13.95	24.30	40.00	15.70
4	213.5135	-11.12	27.18	43.50	16.32
5	479.5596	-3.95	31.85	46.00	14.15
6	797.0671	0.43	30.70	46.00	15.30

Mode:	11AC20 5785
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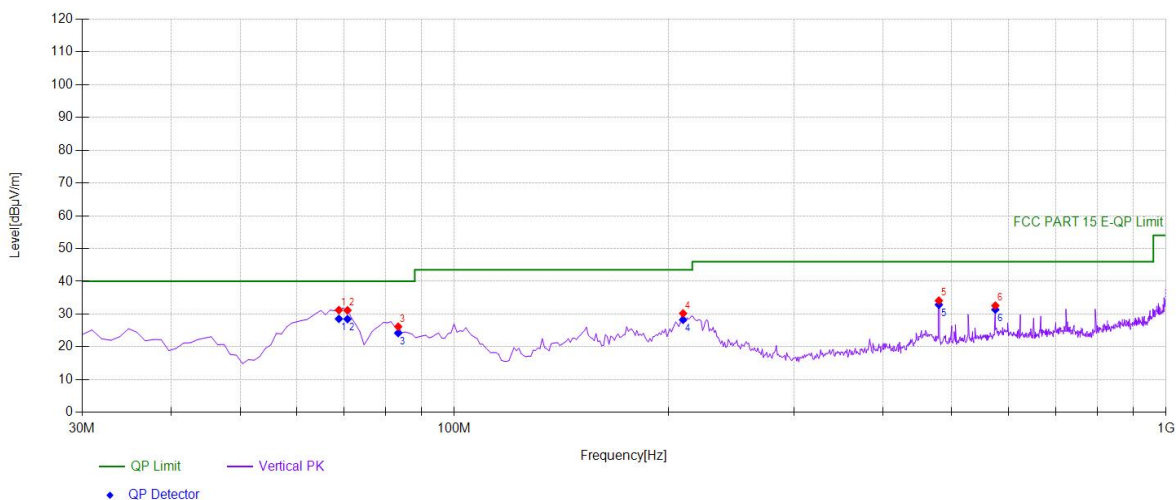
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	73.6937	36.66	-13.50	23.16	PK	40.00	16.84	Horizontal
2	215.4555	36.44	-10.99	25.45	PK	43.50	18.05	Horizontal
3	233.9039	38.03	-10.30	27.73	PK	46.00	18.27	Horizontal
4	314.4945	35.90	-7.87	28.03	PK	46.00	17.97	Horizontal
5	699.97	30.16	0.12	30.28	PK	46.00	15.72	Horizontal
6	724.2442	28.62	0.39	29.01	PK	46.00	16.99	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	73.6937	-13.50	21.93	40.00	18.07
2	215.4555	-10.99	24.22	43.50	19.28
3	233.9039	-10.30	25.22	46.00	20.78
4	314.4945	-7.87	25.19	46.00	20.81
5	699.97	0.12	27.44	46.00	18.56
6	724.2442	0.39	26.89	46.00	19.11

Mode:	11AC20 5825
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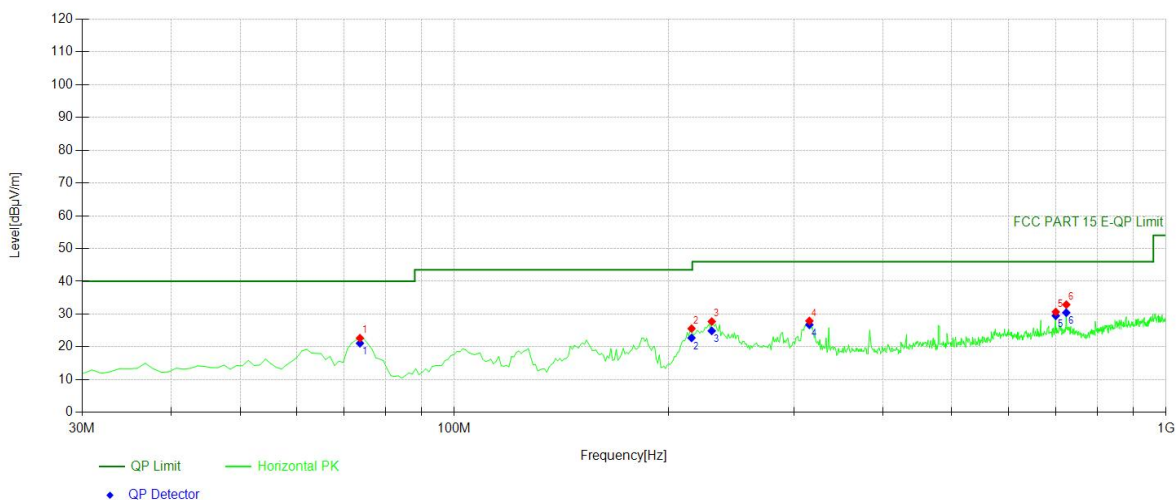
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	68.8388	44.02	-12.79	31.23	PK	40.00	8.77	Vertical
2	70.7808	44.21	-13.06	31.15	PK	40.00	8.85	Vertical
3	83.4034	40.13	-13.95	26.18	PK	40.00	13.82	Vertical
4	209.6296	41.60	-11.37	30.23	PK	43.50	13.27	Vertical
5	479.5596	38.06	-3.95	34.11	PK	46.00	11.89	Vertical
6	575.6857	33.94	-1.34	32.60	PK	46.00	13.40	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	68.8388	-12.79	28.56	40.00	11.44
2	70.7808	-13.06	28.48	40.00	11.52
3	83.4034	-13.95	24.23	40.00	15.77
4	209.6296	-11.37	28.28	43.50	15.22
5	479.5596	-3.95	32.88	46.00	13.12
6	575.6857	-1.34	31.37	46.00	14.63

Mode:	11AC20 5825
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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	73.6937	36.17	-13.50	22.67	PK	40.00	17.33	Horizontal
2	215.4555	36.58	-10.99	25.59	PK	43.50	17.91	Horizontal
3	230.02	38.15	-10.42	27.73	PK	46.00	18.27	Horizontal
4	315.4655	35.79	-7.86	27.93	PK	46.00	18.07	Horizontal
5	699.97	30.55	0.12	30.67	PK	46.00	15.33	Horizontal
6	724.2442	32.51	0.39	32.90	PK	46.00	13.10	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	73.6937	-13.50	21.10	40.00	18.90
2	215.4555	-10.99	22.74	43.50	20.76
3	230.02	-10.42	24.88	46.00	21.12
4	315.4655	-7.86	26.75	46.00	19.25
5	699.97	0.12	29.49	46.00	16.51
6	724.2442	0.39	30.44	46.00	15.56

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