

## TEST REPORT

**Product** : T1 Wireless  
**Trade mark** : Typhur  
**Model/Type reference** : T1000  
**Serial Number** : N/A  
**Report Number** : EED32O80604204  
**FCC ID** : 2A6RN-T1000  
**Date of Issue** : Jun. 16, 2022  
**Test Standards** : 47 CFR Part 15 Subpart E  
**Test result** : PASS

Prepared for:

**Shenzhen Typhur Technology Co., Ltd**  
**22 Floor, Prince Plaza, 51 Taizi Road Shuiwan Community, Zhaoshang**  
**Street, Nanshan N/A Shenzhen N/A China**

Prepared by:

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**Hongwei Industrial Zone, Bao'an 70 District,**  
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Jun. 16, 2022

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Check No.: 1154290422



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## 2 Version

Version No.	Date	Description
00	Jun. 16, 2022	Original

### 3 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	N/A
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied bandwidth	\	PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Remark: Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

## 4 General Information

### 4.1 Client Information

Applicant:	Shenzhen Typhur Technology Co., Ltd
Address of Applicant:	22 Floor, Prince Plaza, 51 Taizi Road Shuiwan Community, Zhaoshang Street, Nanshan N/A Shenzhen N/A China
Manufacturer:	Shenzhen Typhur Technology Co., Ltd
Address of Manufacturer:	Prince Plaza 2201、2202、2203、2204、2205、2206, 51 Taizi Road, Shuiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, China
Factory:	Shenzhen Typhur Technology Co., Ltd
Address of Factory:	Prince Plaza 2201、2202、2203、2204、2205、2206, 51 Taizi Road, Shuiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, China

### 4.2 General Description of EUT

Product Name:	T1 Wireless
Model No.(EUT):	T1000
Trade mark:	Typhur
Product Type:	Fix Location
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40/VHT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Operating Frequency	U-NII-1 & U-NII-2A: 5180-5320MHz U-NII-2C:5500-5700MHz(except 5600-5650MHz) U-NII-3:5745-5825MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	3.96dBi
Function	<input checked="" type="checkbox"/> SISO <input type="checkbox"/> 2x2 MIMO <input type="checkbox"/> 3x3 MIMO <input type="checkbox"/> 4x4MIMO
Power Supply:	DC 3.3V
Test voltage:	DC 3.3V
Sample Received Date:	Apr. 29, 2022
Sample tested Date:	Apr. 29, 2022 to May 11, 2022

Operation Frequency each of channel

802.11a/802.11n/802.11ac(20MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-2C		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	52	5260	100	5500	149	5745
40	5200	56	5280	104	5520	153	5765
44	5220	60	5300	108	5540	157	5785
48	5240	64	5320	112	5560	161	5805



-	-	-	-	116	5580	165	5825
-	-	-	-	132	5660	-	-
-	-	-	-	136	5680	-	-
-	-	-	-	140	5700	-	-

802.11n/802.11ac(40MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-2C		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	54	5270	102	5510	151	5755
46	5230	62	5310	110	5550	159	5795
-	-	-	-	134	5670	-	-
-	-	-	-	142	5710	-	-

802.11ac(80MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-2C		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	58	5290	106	5530	155	5775
-	-	-	-	138	5690	-	-

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

### 4.3 Test Configuration

EUT Test Software Settings:	
Software:	Scrcpy.exe
EUT Power Grade:	Default
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.	
Test Mode:	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(VHT20)	MCS0
802.11ac(VHT40)	MCS0
802.11ac(VHT80)	MCS0

### 4.4 Test Environment

Operating Environment:		
Radiated Spurious Emissions:		
Temperature:	22~25.0 °C	
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
RF Conducted:		
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Temperature:	NT (Normal Temperature)	22.0~25.0 °C
	LT (Low Temperature)	0 °C
	HT (High Temperature)	35 °C
Working Voltage of the EUT:	NV (Normal Voltage)	DC 3.3V
	LV (Low Voltage)	DC 3.0 V
	HV (High Voltage)	DC 3.6V

### 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacture	model	Supplie d by	Certification
Notebook	DELL	Latitude 3490	CTI	FCC&CE

### 4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd  
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China  
Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385  
No tests were sub-contracted.  
FCC Designation No.: CN1164

#### 4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%



## 5 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022
Temperature/Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518	---	---

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2021	05-15-2022
Receiver	R&S	ESC17	100938-003	10-15-2021	10-14-2022
Multi device Controller	maturo	NCD/070/10711112	---	---	---
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04-14-2024
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06-23-2021	06-22-2022

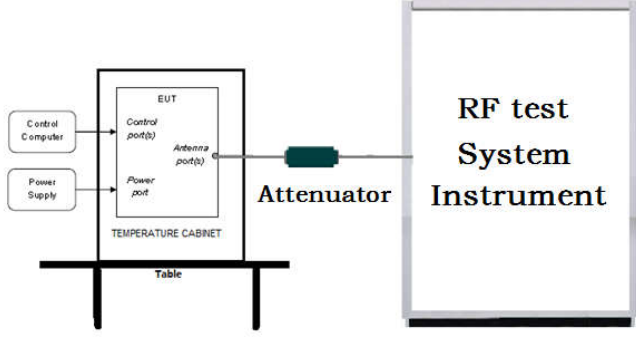
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

## 6 Radio Technical Requirements Specification

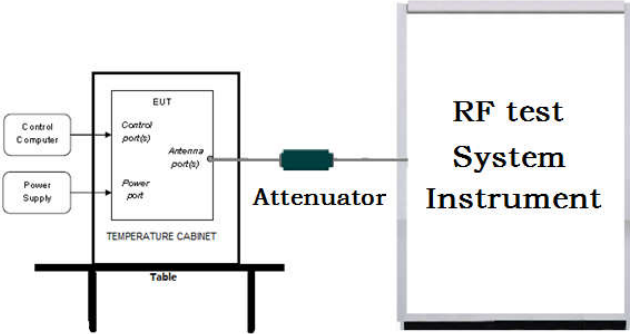
### 6.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
<b>EUT Antenna:</b>	Please see Internal photos
The antenna is PIFA antenna, The best case gain of the antenna is 3.96dBi.	

## 6.2 Maximum Conducted Output Power

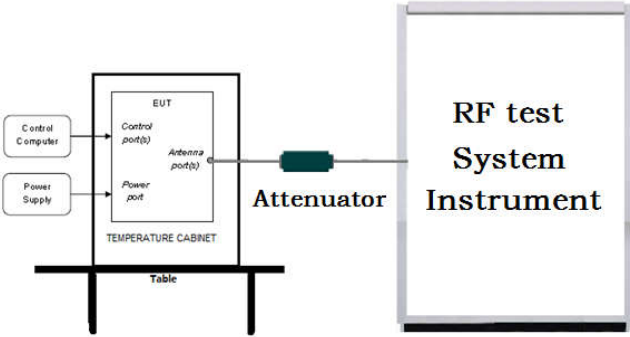
Test Requirement:	47 CFR Part 15C Section 15.407 (a)													
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E													
Test Setup:														
Test Procedure:	<ol style="list-style-type: none"> <li>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a</li> <li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Measure the conducted output power and record the results in the test report.</li> </ol>													
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td rowspan="2">5150-5250</td><td>≤1W(30dBm) for master device</td></tr> <tr> <td>≤250mW(24dBm) for client device</td></tr> <tr> <td>5250-5350</td><td>≤250mW(24dBm) for client device or 11dBm+10logB*</td></tr> <tr> <td>5470-5725</td><td>≤250mW(24dBm) for client device or 11dBm+10logB*</td></tr> <tr> <td>5725-5850</td><td>≤1W(30dBm)</td></tr> <tr> <td>Remark:</td><td>* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</td></tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤1W(30dBm) for master device	≤250mW(24dBm) for client device	5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*	5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*	5725-5850	≤1W(30dBm)	Remark:	* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.
Frequency band (MHz)	Limit													
5150-5250	≤1W(30dBm) for master device													
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5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*													
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*													
5725-5850	≤1W(30dBm)													
Remark:	* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.													
Test Mode:	Transmitting mode with modulation													
Test Results:	Refer to Appendix A													

6.3 6dB Emission Bandwidth

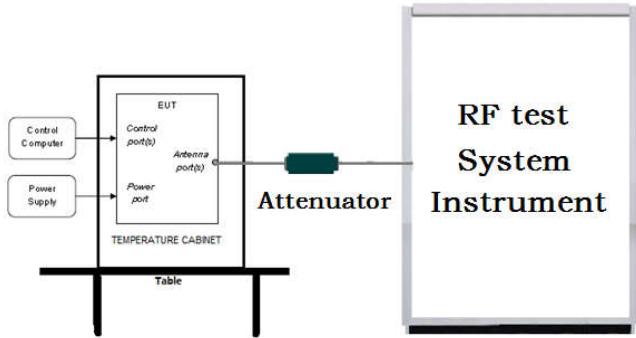
Test Requirement:	47 CFR Part 15C Section 15.407 (e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Test Setup:	<div><p>Remark: Offset=Cable loss+ attenuation factor.</p></div>
Test Procedure:	<div><div>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</div><div>2. Set to the maximum power setting and enable the EUT transmit continuously.</div><div>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</div><div>4. Measure and record the results in the test report.</div></div>
Limit:	≥ 500 kHz
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix A



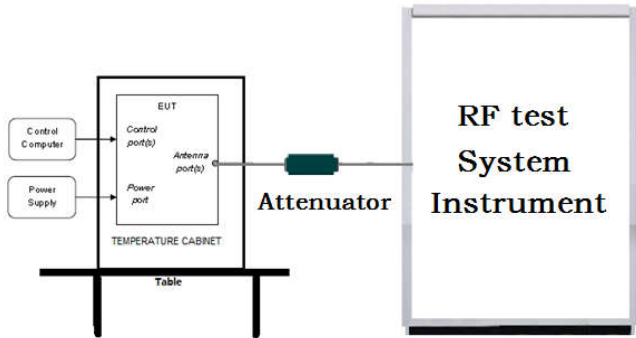
6.4 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Test Setup:	<div><p>Remark: Offset=Cable loss+ attenuation factor.</p></div>
Test Procedure:	<div><div>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D</div><div>2. Set to the maximum power setting and enable the EUT transmit continuously.</div><div>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement.</div><div>4. Measure and record the results in the test report.</div></div>
Limit:	No restriction limits
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix A

## 6.5 Maximum Power Spectral Density

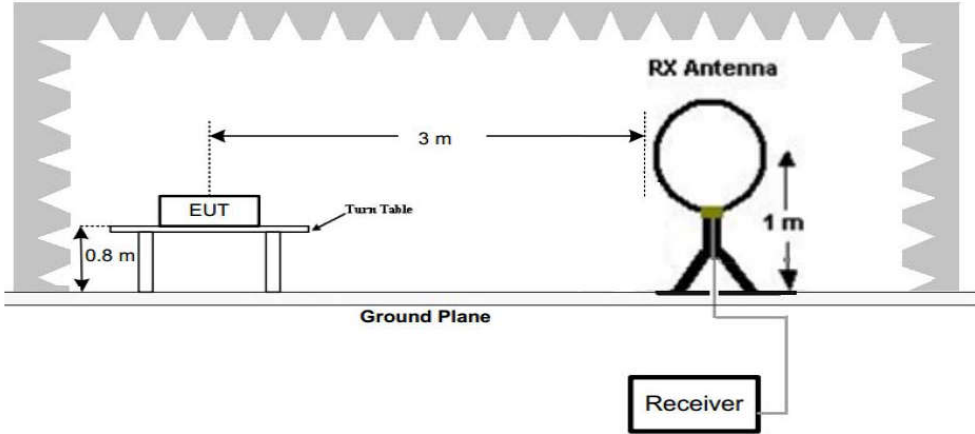
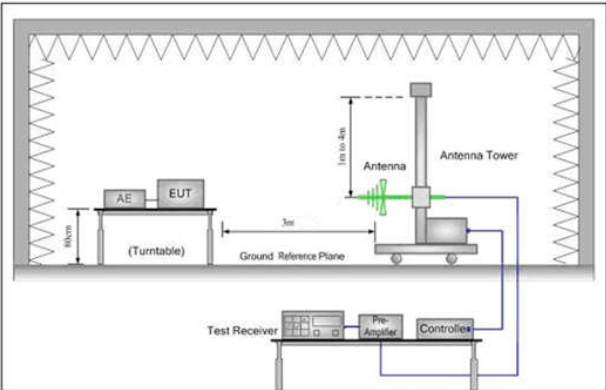
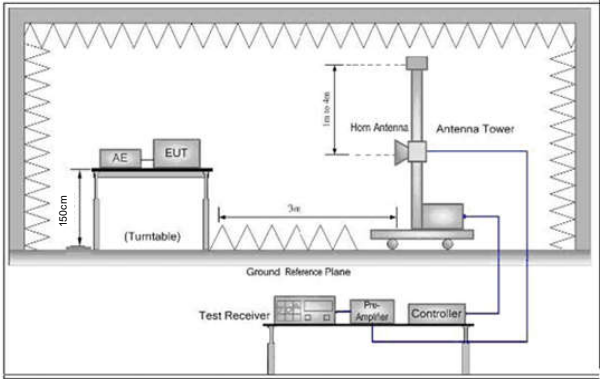
Test Requirement:	47 CFR Part 15C Section 15.407 (a)												
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F												
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>												
Test Procedure:	<ol style="list-style-type: none"> <li>Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS.</li> <li>Allow the sweeps to continue until the trace stabilizes.</li> <li>Use the peak marker function to determine the maximum amplitude level.</li> </ol>												
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>5150-5250</td><td>≤17dBm in 1MHz for master device ≤11dBm in 1MHz for client device</td></tr> <tr> <td>5250-5350</td><td>≤11dBm in 1MHz for client device</td></tr> <tr> <td>5470-5725</td><td>≤11dBm in 1MHz for client device</td></tr> <tr> <td>5725-5850</td><td>≤30dBm in 500kHz</td></tr> <tr> <td>Remark:</td><td>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</td></tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤17dBm in 1MHz for master device ≤11dBm in 1MHz for client device	5250-5350	≤11dBm in 1MHz for client device	5470-5725	≤11dBm in 1MHz for client device	5725-5850	≤30dBm in 500kHz	Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.
Frequency band (MHz)	Limit												
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5470-5725	≤11dBm in 1MHz for client device												
5725-5850	≤30dBm in 500kHz												
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.												
Test Mode:	Transmitting mode with modulation												
Test Results:	Refer to Appendix A												

## 6.6 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<ol style="list-style-type: none"> <li>1.The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage.</li> <li>2. Turn the EUT on and couple its output to a spectrum analyzer.</li> <li>3. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize.</li> <li>4. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.</li> <li>5. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.</li> </ol>
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix A

## 6.7 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	<p>*(1) 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.</p> <p>(2) 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.</p> <p>(3) 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.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed</p>				

	<p>the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p> <p>Note:</p> <p>(i) <math>EIRP = ((E*d)^2) / 30</math></p> <p>where:</p> <ul style="list-style-type: none"><li>• E is the field strength in V/m;</li><li>• d is the measurement distance in meters;</li><li>• EIRP is the equivalent isotropically radiated power in watts.</li></ul> <p>(ii) Working in dB units, the above equation is equivalent to:</p> $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ <p>(iii) Or, if d is 3 meters:</p> $EIRP[dBm] = E[dB\mu V/m] - 95.2$
Test Setup:	 <p>Figure 1. Below 30MHz</p>  <p>Figure 2. 30MHz to 1GHz</p>  <p>Figure 3. Above 1 GHz</p>
Test Procedure:	<p>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>Note: For the radiated emission test above 1GHz:</p>

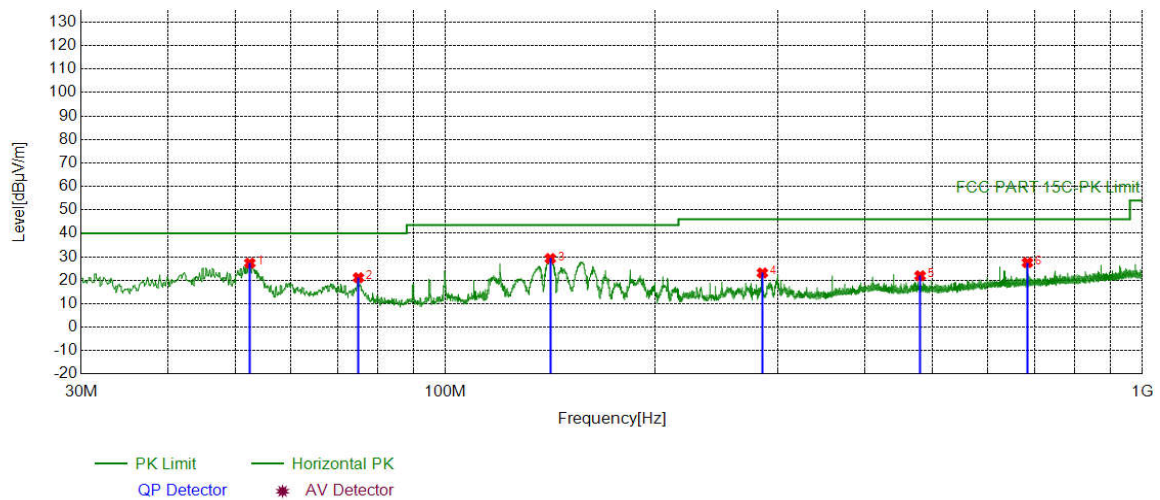


	<p>Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <ul style="list-style-type: none"> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>g. Test the EUT in the lowest channel, the middle channel and the highest channel</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Test Mode:	Transmitting mode with modulation
Test Results:	Pass

## Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case middle channel of 6Mbps for 802.11a was recorded in the report.

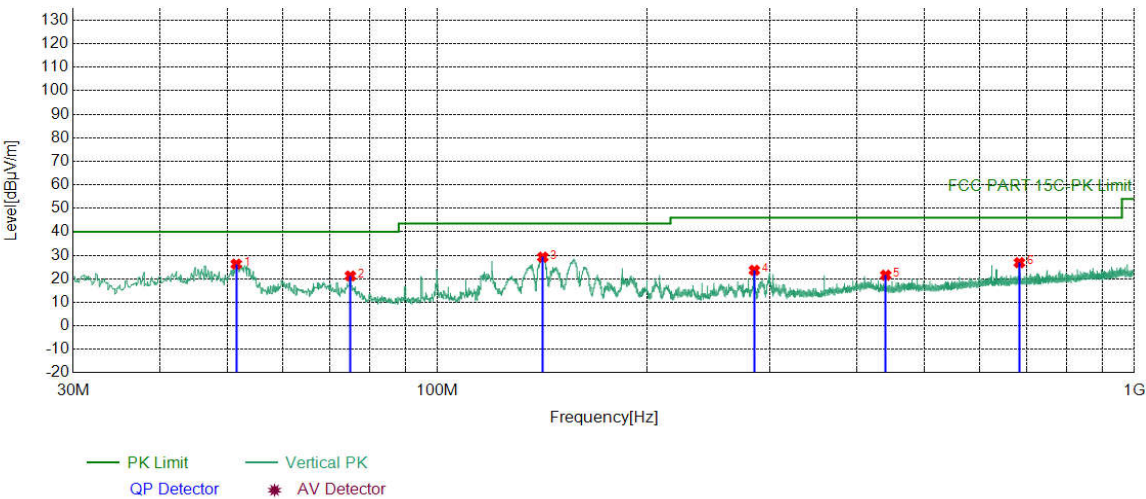
### Test Graph



### Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	52.4092	-17.50	44.80	27.30	40.00	12.70	PASS	Horizontal	PK
2	75.0125	-21.68	42.76	21.08	40.00	18.92	PASS	Horizontal	PK
3	141.4641	-21.97	51.23	29.26	43.50	14.24	PASS	Horizontal	PK
4	285.0385	-15.83	38.94	23.11	46.00	22.89	PASS	Horizontal	PK
5	480.0280	-11.20	33.10	21.90	46.00	24.10	PASS	Horizontal	PK
6	684.2334	-7.84	35.36	27.52	46.00	18.48	PASS	Horizontal	PK

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	51.4391	-17.37	43.63	26.26	40.00	13.74	PASS	Vertical	PK
2	75.0125	-21.68	42.90	21.22	40.00	18.78	PASS	Vertical	PK
3	141.6582	-21.97	51.18	29.21	43.50	14.29	PASS	Vertical	PK
4	285.0385	-15.83	39.47	23.64	46.00	22.36	PASS	Vertical	PK
5	439.9630	-12.01	33.55	21.54	46.00	24.46	PASS	Vertical	PK
6	684.2334	-7.84	34.71	26.87	46.00	19.13	PASS	Vertical	PK

### Transmitter Emission above 1GHz:

Remark: During the test, the Radiates Emission from 1GHz to 40GHz was performed in all modes,,  
for 20MHz Occupied Bandwidth, 802.11 a mode was the worst case;

for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case;

for 80MHz Occupied Bandwidth, 802.11 ac(VHT80) mode was the worst case;

only the worst case was in the report.

Mode:			802.11 a Transmitting			Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1422.4422	1.47	41.06	42.53	68.20	25.67	PASS	Horizontal	PK
2	2090.7591	5.01	39.69	44.70	68.20	23.50	PASS	Horizontal	PK
3	3078.6579	6.76	42.26	49.02	68.20	19.18	PASS	Horizontal	PK
4	8288.3394	-11.00	56.23	45.23	68.20	22.97	PASS	Horizontal	PK
5	11909.8705	-5.38	52.94	47.56	68.20	20.64	PASS	Horizontal	PK
6	16611.3056	1.38	51.33	52.71	68.20	15.49	PASS	Horizontal	PK
7	1287.6788	1.11	41.40	42.51	68.20	25.69	PASS	Vertical	PK
8	2044.0044	4.81	40.77	45.58	68.20	22.62	PASS	Vertical	PK
9	3485.1485	7.61	38.35	45.96	68.20	22.24	PASS	Vertical	PK
10	8287.7644	-11.00	54.97	43.97	68.20	24.23	PASS	Vertical	PK
11	10365.3433	-6.26	54.16	47.90	68.20	20.30	PASS	Vertical	PK
12	15533.7017	0.45	51.44	51.89	68.20	16.31	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5200MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1254.1254	1.00	41.64	42.64	68.20	25.56	PASS	Horizontal	PK
2	1838.2838	3.70	41.34	45.04	68.20	23.16	PASS	Horizontal	PK
3	3079.2079	6.76	42.39	49.15	68.20	19.05	PASS	Horizontal	PK
4	8319.9660	-10.95	57.25	46.30	68.20	21.90	PASS	Horizontal	PK
5	10764.4132	-6.18	52.82	46.64	68.20	21.56	PASS	Horizontal	PK
6	15487.1244	0.30	49.70	50.00	68.20	18.20	PASS	Horizontal	PK
7	1421.3421	1.47	40.42	41.89	68.20	26.31	PASS	Vertical	PK
8	2125.4125	4.77	39.95	44.72	68.20	23.48	PASS	Vertical	PK
9	3347.0847	7.47	38.81	46.28	68.20	21.92	PASS	Vertical	PK
10	8319.9660	-10.95	55.70	44.75	68.20	23.45	PASS	Vertical	PK
11	10400.9951	-6.27	54.58	48.31	68.20	19.89	PASS	Vertical	PK
12	15107.6054	0.20	49.73	49.93	68.20	18.27	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1282.7283	1.09	40.67	41.76	68.20	26.44	PASS	Horizontal	PK
2	2033.0033	4.76	39.67	44.43	68.20	23.77	PASS	Horizontal	PK
3	3079.2079	6.76	41.54	48.30	68.20	19.90	PASS	Horizontal	PK
4	8383.7942	-10.72	56.41	45.69	68.20	22.51	PASS	Horizontal	PK
5	11906.9954	-5.40	53.31	47.91	68.20	20.29	PASS	Horizontal	PK
6	15519.3260	0.46	49.80	50.26	68.20	17.94	PASS	Horizontal	PK
7	1132.0132	0.72	41.83	42.55	68.20	25.65	PASS	Vertical	PK
8	2219.4719	3.95	40.59	44.54	68.20	23.66	PASS	Vertical	PK
9	3311.8812	7.41	38.93	46.34	68.20	21.86	PASS	Vertical	PK
10	8383.7942	-10.72	55.10	44.38	68.20	23.82	PASS	Vertical	PK
11	10474.0237	-6.44	54.35	47.91	68.20	20.29	PASS	Vertical	PK
12	15508.4004	0.46	50.29	50.75	68.20	17.45	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5260MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1541.2541	1.94	40.48	42.42	68.20	25.78	PASS	Horizontal	PK
2	2440.5941	4.70	40.27	44.97	68.20	23.23	PASS	Horizontal	PK
3	4287.1287	10.83	37.56	48.39	68.20	19.81	PASS	Horizontal	PK
4	8415.9958	-10.65	57.22	46.57	68.20	21.63	PASS	Horizontal	PK
5	10518.3009	-6.49	54.80	48.31	68.20	19.89	PASS	Horizontal	PK
6	15494.0247	0.39	49.94	50.33	68.20	17.87	PASS	Horizontal	PK
7	1430.6931	1.48	40.78	42.26	68.20	25.94	PASS	Vertical	PK
8	2245.8746	3.99	39.94	43.93	68.20	24.27	PASS	Vertical	PK
9	3491.1991	7.62	38.27	45.89	68.20	22.31	PASS	Vertical	PK
10	8415.9958	-10.65	56.21	45.56	68.20	22.64	PASS	Vertical	PK
11	10523.4762	-6.49	58.09	51.60	68.20	16.60	PASS	Vertical	PK
12	14369.8435	0.31	49.86	50.17	68.20	18.03	PASS	Vertical	PK



Mode:			802.11 a Transmitting			Channel:		5280MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1386.1386	1.40	40.71	42.11	68.20	26.09	PASS	Horizontal	PK
2	2111.6612	4.92	40.55	45.47	68.20	22.73	PASS	Horizontal	PK
3	3079.7580	6.76	40.17	46.93	68.20	21.27	PASS	Horizontal	PK
4	8448.1974	-10.63	55.73	45.10	68.20	23.10	PASS	Horizontal	PK
5	10559.1280	-6.46	57.23	50.77	68.20	17.43	PASS	Horizontal	PK
6	14316.3658	-0.26	51.17	50.91	68.20	17.29	PASS	Horizontal	PK
7	1315.1815	1.19	41.24	42.43	68.20	25.77	PASS	Vertical	PK
8	2096.8097	5.04	40.09	45.13	68.20	23.07	PASS	Vertical	PK
9	3078.6579	6.76	41.14	47.90	68.20	20.30	PASS	Vertical	PK
10	8448.1974	-10.63	55.71	45.08	68.20	23.12	PASS	Vertical	PK
11	10558.5529	-6.46	58.67	52.21	68.20	15.99	PASS	Vertical	PK
12	13831.6166	-1.92	50.96	49.04	68.20	19.16	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5320MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1425.7426	1.48	40.41	41.89	68.20	26.31	PASS	Horizontal	PK
2	2446.6447	4.75	40.12	44.87	68.20	23.33	PASS	Horizontal	PK
3	3869.0869	8.79	37.37	46.16	68.20	22.04	PASS	Horizontal	PK
4	8512.0256	-10.58	55.96	45.38	68.20	22.82	PASS	Horizontal	PK
5	10640.7820	-6.33	56.85	50.52	68.20	17.68	PASS	Horizontal	PK
6	14334.7667	-0.06	50.39	50.33	68.20	17.87	PASS	Horizontal	PK
7	1278.8779	1.08	41.43	42.51	68.20	25.69	PASS	Vertical	PK
8	2191.4191	4.03	40.36	44.39	68.20	23.81	PASS	Vertical	PK
9	3201.8702	6.98	39.35	46.33	68.20	21.87	PASS	Vertical	PK
10	8512.0256	-10.58	56.12	45.54	68.20	22.66	PASS	Vertical	PK
11	10637.9069	-6.34	58.66	52.32	68.20	15.88	PASS	Vertical	PK
12	15966.6983	-0.11	53.52	53.41	68.20	14.79	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5500MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1431.7932	1.86	40.75	42.61	68.20	25.59	PASS	Horizontal	PK
2	2443.8944	5.13	40.27	45.40	68.20	22.80	PASS	Horizontal	PK
3	3801.9802	9.38	36.73	46.11	68.20	22.09	PASS	Horizontal	PK
4	9116.0411	-8.51	53.36	44.85	68.20	23.35	PASS	Horizontal	PK
5	11006.0004	-5.86	56.66	50.80	68.20	17.40	PASS	Horizontal	PK
6	14397.9599	0.62	50.43	51.05	68.20	17.15	PASS	Horizontal	PK
7	1459.2959	1.89	40.23	42.12	68.20	26.08	PASS	Vertical	PK
8	2358.6359	4.78	39.90	44.68	68.20	23.52	PASS	Vertical	PK
9	3226.0726	8.00	39.90	47.90	68.20	20.30	PASS	Vertical	PK
10	9114.5076	-8.52	53.26	44.74	68.20	23.46	PASS	Vertical	PK
11	10997.5665	-5.83	58.46	52.63	68.20	15.57	PASS	Vertical	PK
12	15909.9273	0.09	51.94	52.03	68.20	16.17	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5580MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1366.8867	1.76	40.57	42.33	68.20	25.87	PASS	Horizontal	PK
2	2394.9395	4.87	41.31	46.18	68.20	22.02	PASS	Horizontal	PK
3	3921.8922	9.88	37.43	47.31	68.20	20.89	PASS	Horizontal	PK
4	8928.1952	-9.03	53.27	44.24	68.20	23.96	PASS	Horizontal	PK
5	11156.2771	-6.03	49.23	43.20	54.00	10.80	PASS	Horizontal	AV
6	11165.4777	-5.96	62.20	56.24	68.20	11.96	PASS	Horizontal	PK
7	16294.8197	0.88	51.16	52.04	68.20	16.16	PASS	Horizontal	PK
8	1366.8867	1.76	40.28	42.04	68.20	26.16	PASS	Vertical	PK
9	2039.0539	5.30	39.86	45.16	68.20	23.04	PASS	Vertical	PK
10	3536.8537	8.14	38.86	47.00	68.20	21.20	PASS	Vertical	PK
11	8373.0915	-10.76	53.72	42.96	68.20	25.24	PASS	Vertical	PK
12	11157.8105	-6.02	64.65	58.63	68.20	9.57	PASS	Vertical	PK
13	11158.5772	-6.01	52.24	46.23	54.00	7.77	PASS	Vertical	AV
14	15508.9339	0.46	50.15	50.61	68.20	17.59	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5700MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1331.1331	1.70	41.48	43.18	68.20	25.02	PASS	Horizontal	PK
2	2096.2596	5.61	39.60	45.21	68.20	22.99	PASS	Horizontal	PK
3	3313.5314	8.30	38.82	47.12	68.20	21.08	PASS	Horizontal	PK
4	9188.1125	-7.83	52.75	44.92	68.20	23.28	PASS	Horizontal	PK
5	11396.2598	-6.24	62.26	56.02	68.20	12.18	PASS	Horizontal	PK
6	11400.8601	-6.23	49.34	43.11	54.00	10.89	PASS	Horizontal	AV
7	15896.8931	0.08	51.19	51.27	68.20	16.93	PASS	Horizontal	PK
8	1275.5776	1.52	40.89	42.41	68.20	25.79	PASS	Vertical	PK
9	2064.9065	5.44	39.59	45.03	68.20	23.17	PASS	Vertical	PK
10	3169.4169	7.82	39.34	47.16	68.20	21.04	PASS	Vertical	PK
11	9119.8747	-8.47	54.22	45.75	68.20	22.45	PASS	Vertical	PK
12	11395.4930	-6.25	63.80	57.55	68.20	10.65	PASS	Vertical	PK
13	11399.3266	-6.23	51.90	45.67	54.00	8.33	PASS	Vertical	AV
14	16448.1632	0.06	52.30	52.36	68.20	15.84	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5745MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1166.1166	1.08	41.52	42.60	68.20	25.60	PASS	Horizontal	PK
2	2097.3597	5.62	39.74	45.36	68.20	22.84	PASS	Horizontal	PK
3	3079.2079	7.54	41.93	49.47	68.20	18.73	PASS	Horizontal	PK
4	9629.7420	-7.40	52.45	45.05	68.20	23.15	PASS	Horizontal	PK
5	11920.6947	-5.31	53.62	48.31	68.20	19.89	PASS	Horizontal	PK
6	15900.7267	0.13	51.19	51.32	68.20	16.88	PASS	Horizontal	PK
7	1319.0319	1.67	41.52	43.19	68.20	25.01	PASS	Vertical	PK
8	2558.3058	5.59	40.08	45.67	68.20	22.53	PASS	Vertical	PK
9	4387.2387	12.26	36.40	48.66	68.20	19.54	PASS	Vertical	PK
10	9191.9461	-7.80	54.34	46.54	68.20	21.66	PASS	Vertical	PK
11	14335.0890	-0.06	49.13	49.07	68.20	19.13	PASS	Vertical	PK
12	16988.6992	2.97	51.12	54.09	68.20	14.11	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5785MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1328.3828	1.69	41.69	43.38	68.20	24.82	PASS	Horizontal	PK
2	1924.6425	4.81	39.55	44.36	68.20	23.84	PASS	Horizontal	PK
3	3079.2079	7.54	42.46	50.00	68.20	18.20	PASS	Horizontal	PK
4	8835.4224	-9.16	52.87	43.71	68.20	24.49	PASS	Horizontal	PK
5	11911.4941	-5.37	54.02	48.65	68.20	19.55	PASS	Horizontal	PK
6	14495.3330	-0.75	50.25	49.50	68.20	18.70	PASS	Horizontal	PK
7	1378.9879	1.78	41.11	42.89	68.20	25.31	PASS	Vertical	PK
8	1888.3388	4.61	41.53	46.14	68.20	22.06	PASS	Vertical	PK
9	3079.2079	7.54	41.44	48.98	68.20	19.22	PASS	Vertical	PK
10	8957.3305	-8.78	52.24	43.46	68.20	24.74	PASS	Vertical	PK
11	11568.7713	-6.27	57.57	51.30	68.20	16.90	PASS	Vertical	PK
12	16436.6624	-0.02	52.39	52.37	68.20	15.83	PASS	Vertical	PK

Mode:			802.11 a Transmitting			Channel:		5825MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1287.1287	1.57	40.90	42.47	68.20	25.73	PASS	Horizontal	PK
2	2129.8130	5.25	40.12	45.37	68.20	22.83	PASS	Horizontal	PK
3	3963.6964	10.13	38.15	48.28	68.20	19.92	PASS	Horizontal	PK
4	7609.4406	-10.59	53.46	42.87	68.20	25.33	PASS	Horizontal	PK
5	11653.1102	-6.11	54.40	48.29	68.20	19.91	PASS	Horizontal	PK
6	16961.8641	2.86	50.44	53.30	68.20	14.90	PASS	Horizontal	PK
7	1430.1430	1.85	40.60	42.45	68.20	25.75	PASS	Vertical	PK
8	2108.3608	5.52	40.42	45.94	68.20	22.26	PASS	Vertical	PK
9	3078.6579	7.54	40.00	47.54	68.20	20.66	PASS	Vertical	PK
10	8891.3928	-9.26	52.67	43.41	68.20	24.79	PASS	Vertical	PK
11	11646.9765	-6.15	56.37	50.22	68.20	17.98	PASS	Vertical	PK
12	16537.8692	0.76	52.25	53.01	68.20	15.19	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5190MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1265.1265	1.03	41.24	42.27	68.20	25.93	PASS	Horizontal	PK
2	2045.6546	4.82	40.19	45.01	68.20	23.19	PASS	Horizontal	PK
3	3078.6579	6.76	42.58	49.34	68.20	18.86	PASS	Horizontal	PK
4	8303.8652	-11.01	55.65	44.64	68.20	23.56	PASS	Horizontal	PK
5	11966.2233	-5.04	52.56	47.52	68.20	20.68	PASS	Horizontal	PK
6	16618.2059	1.40	51.18	52.58	68.20	15.62	PASS	Horizontal	PK
7	1148.5149	0.74	41.54	42.28	68.20	25.92	PASS	Vertical	PK
8	2094.6095	5.03	39.78	44.81	68.20	23.39	PASS	Vertical	PK
9	3194.7195	6.96	39.96	46.92	68.20	21.28	PASS	Vertical	PK
10	9186.5343	-7.85	53.38	45.53	68.20	22.67	PASS	Vertical	PK
11	11967.3734	-5.03	52.40	47.37	68.20	20.83	PASS	Vertical	PK
12	15946.5723	-0.04	50.83	50.79	68.20	17.41	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1436.1936	1.49	40.96	42.45	68.20	25.75	PASS	Horizontal	PK
2	2068.7569	4.92	40.38	45.30	68.20	22.90	PASS	Horizontal	PK
3	3079.2079	6.76	41.87	48.63	68.20	19.57	PASS	Horizontal	PK
4	8368.2684	-10.77	57.28	46.51	68.20	21.69	PASS	Horizontal	PK
5	11914.4707	-5.35	53.31	47.96	68.20	20.24	PASS	Horizontal	PK
6	15511.2756	0.46	49.99	50.45	68.20	17.75	PASS	Horizontal	PK
7	1437.8438	1.49	40.58	42.07	68.20	26.13	PASS	Vertical	PK
8	2146.3146	4.53	40.00	44.53	68.20	23.67	PASS	Vertical	PK
9	3313.5314	7.41	39.31	46.72	68.20	21.48	PASS	Vertical	PK
10	9129.6065	-8.38	52.89	44.51	68.20	23.69	PASS	Vertical	PK
11	12465.9233	-4.18	52.32	48.14	68.20	20.06	PASS	Vertical	PK
12	16580.2540	1.16	51.35	52.51	68.20	15.69	PASS	Vertical	PK



Mode:			802.11 n(HT40) Transmitting			Channel:		5270MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1390.5391	1.41	40.63	42.04	68.20	26.16	PASS	Horizontal	PK
2	2341.5842	4.18	40.01	44.19	68.20	24.01	PASS	Horizontal	PK
3	3891.6392	8.87	37.45	46.32	68.20	21.88	PASS	Horizontal	PK
4	8432.0966	-10.64	55.68	45.04	68.20	23.16	PASS	Horizontal	PK
5	11938.0469	-5.21	52.91	47.70	68.20	20.50	PASS	Horizontal	PK
6	15480.7990	0.22	49.59	49.81	68.20	18.39	PASS	Horizontal	PK
7	1394.3894	1.42	40.73	42.15	68.20	26.05	PASS	Vertical	PK
8	1948.2948	4.40	41.48	45.88	68.20	22.32	PASS	Vertical	PK
9	3198.5699	6.97	39.33	46.30	68.20	21.90	PASS	Vertical	PK
10	8432.0966	-10.64	55.60	44.96	68.20	23.24	PASS	Vertical	PK
11	11227.3114	-5.95	54.19	48.24	68.20	19.96	PASS	Vertical	PK
12	14304.2902	-0.39	50.70	50.31	68.20	17.89	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5310MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1320.1320	1.21	41.28	42.49	68.20	25.71	PASS	Horizontal	PK
2	2100.1100	5.05	39.23	44.28	68.20	23.92	PASS	Horizontal	PK
3	3297.0297	7.38	38.58	45.96	68.20	22.24	PASS	Horizontal	PK
4	8496.4998	-10.59	55.61	45.02	68.20	23.18	PASS	Horizontal	PK
5	10619.5060	-6.39	55.86	49.47	68.20	18.73	PASS	Horizontal	PK
6	14397.4449	0.61	49.40	50.01	68.20	18.19	PASS	Horizontal	PK
7	1192.5193	0.81	42.37	43.18	68.20	25.02	PASS	Vertical	PK
8	2096.2596	5.03	39.76	44.79	68.20	23.41	PASS	Vertical	PK
9	3079.7580	6.76	40.32	47.08	68.20	21.12	PASS	Vertical	PK
10	8495.9248	-10.59	55.29	44.70	68.20	23.50	PASS	Vertical	PK
11	10631.5816	-6.35	56.06	49.71	68.20	18.49	PASS	Vertical	PK
12	14395.1448	0.59	49.08	49.67	68.20	18.53	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5510MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1206.2706	1.14	40.84	41.98	68.20	26.22	PASS	Horizontal	PK
2	2122.6623	5.35	39.36	44.71	68.20	23.49	PASS	Horizontal	PK
3	4056.6557	10.43	36.97	47.40	68.20	20.80	PASS	Horizontal	PK
4	7380.1920	-11.43	54.21	42.78	68.20	25.42	PASS	Horizontal	PK
5	10732.2822	-6.17	52.38	46.21	68.20	21.99	PASS	Horizontal	PK
6	14368.0579	0.30	49.57	49.87	68.20	18.33	PASS	Horizontal	PK
7	1292.0792	1.61	41.31	42.92	68.20	25.28	PASS	Vertical	PK
8	1924.6425	4.83	40.87	45.70	68.20	22.50	PASS	Vertical	PK
9	3304.1804	8.32	39.64	47.96	68.20	20.24	PASS	Vertical	PK
10	7689.1793	-11.12	53.42	42.30	68.20	25.90	PASS	Vertical	PK
11	10795.9197	-6.18	52.66	46.48	68.20	21.72	PASS	Vertical	PK
12	14366.5244	0.28	49.20	49.48	68.20	18.72	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5550MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1367.9868	1.77	41.04	42.81	68.20	25.39	PASS	Horizontal	PK
2	2091.3091	5.58	39.77	45.35	68.20	22.85	PASS	Horizontal	PK
3	3079.7580	7.57	40.17	47.74	68.20	20.46	PASS	Horizontal	PK
4	7618.6412	-10.65	53.81	43.16	68.20	25.04	PASS	Horizontal	PK
5	11229.1153	-5.97	53.79	47.82	68.20	20.38	PASS	Horizontal	PK
6	14362.6908	0.24	50.20	50.44	68.20	17.76	PASS	Horizontal	PK
7	1310.2310	1.67	40.89	42.56	68.20	25.64	PASS	Vertical	PK
8	2008.2508	5.13	40.15	45.28	68.20	22.92	PASS	Vertical	PK
9	3172.7173	7.83	38.71	46.54	68.20	21.66	PASS	Vertical	PK
10	9210.3474	-7.71	53.73	46.02	68.20	22.18	PASS	Vertical	PK
11	13679.5453	-1.72	50.59	48.87	68.20	19.33	PASS	Vertical	PK
12	17046.2031	2.34	50.89	53.23	68.20	14.97	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5670MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1307.4807	1.66	41.12	42.78	68.20	25.42	PASS	Horizontal	PK
2	2535.2035	5.55	39.46	45.01	68.20	23.19	PASS	Horizontal	PK
3	3954.8955	10.10	37.66	47.76	68.20	20.44	PASS	Horizontal	PK
4	7548.8699	-10.91	53.63	42.72	68.20	25.48	PASS	Horizontal	PK
5	11337.9892	-6.44	57.55	51.11	68.20	17.09	PASS	Horizontal	PK
6	16445.0963	0.04	53.38	53.42	68.20	14.78	PASS	Horizontal	PK
7	1193.6194	1.11	41.04	42.15	68.20	26.05	PASS	Vertical	PK
8	2039.0539	5.30	41.29	46.59	68.20	21.61	PASS	Vertical	PK
9	3820.6821	9.45	37.83	47.28	68.20	20.92	PASS	Vertical	PK
10	9072.3382	-8.59	55.08	46.49	68.20	21.71	PASS	Vertical	PK
11	11334.1556	-6.45	60.45	54.00	68.20	14.20	PASS	Vertical	PK
12	11342.5895	-6.43	49.45	43.02	54.00	10.98	PASS	Vertical	AV
13	15508.9339	0.46	49.26	49.72	68.20	18.48	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5755MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1275.0275	1.50	41.80	43.30	68.20	24.90	PASS	Horizontal	PK
2	2125.9626	5.30	40.19	45.49	68.20	22.71	PASS	Horizontal	PK
3	3079.2079	7.54	42.91	50.45	68.20	17.75	PASS	Horizontal	PK
4	9151.3101	-8.18	52.87	44.69	68.20	23.51	PASS	Horizontal	PK
5	11507.4338	-5.85	55.56	49.71	68.20	18.49	PASS	Horizontal	PK
6	15914.5276	0.08	51.51	51.59	68.20	16.61	PASS	Horizontal	PK
7	1321.7822	1.68	40.72	42.40	68.20	25.80	PASS	Vertical	PK
8	1951.5952	4.91	40.25	45.16	68.20	23.04	PASS	Vertical	PK
9	3536.8537	8.11	39.36	47.47	68.20	20.73	PASS	Vertical	PK
10	8387.6592	-10.70	53.97	43.27	68.20	24.93	PASS	Vertical	PK
11	11512.8009	-5.89	57.50	51.61	68.20	16.59	PASS	Vertical	PK
12	15497.4332	0.44	49.85	50.29	68.20	17.91	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5795MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1287.1287	1.57	41.51	43.08	68.20	25.12	PASS	Horizontal	PK
2	2444.9945	5.12	39.74	44.86	68.20	23.34	PASS	Horizontal	PK
3	3804.1804	9.38	38.71	48.09	68.20	20.11	PASS	Horizontal	PK
4	8997.9665	-8.42	52.56	44.14	68.20	24.06	PASS	Horizontal	PK
5	12438.2292	-4.11	52.76	48.65	68.20	19.55	PASS	Horizontal	PK
6	16526.3684	0.65	52.34	52.99	68.20	15.21	PASS	Horizontal	PK
7	1285.4785	1.56	42.24	43.80	68.20	24.40	PASS	Vertical	PK
8	2408.6909	4.91	40.55	45.46	68.20	22.74	PASS	Vertical	PK
9	3495.0495	8.36	38.28	46.64	68.20	21.56	PASS	Vertical	PK
10	9272.4515	-7.62	54.44	46.82	68.20	21.38	PASS	Vertical	PK
11	11586.4058	-6.39	55.43	49.04	68.20	19.16	PASS	Vertical	PK
12	15922.9615	0.05	51.37	51.42	68.20	16.78	PASS	Vertical	PK

Mode:			802.11 ac(VHT80) Transmitting			Channel:		5210MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1405.9406	1.45	40.78	42.23	68.20	25.97	PASS	Horizontal	PK
2	2125.4125	4.77	39.42	44.19	68.20	24.01	PASS	Horizontal	PK
3	3079.2079	6.76	40.83	47.59	68.20	20.61	PASS	Horizontal	PK
4	8336.0668	-10.89	56.49	45.60	68.20	22.60	PASS	Horizontal	PK
5	12449.2475	-4.14	52.81	48.67	68.20	19.53	PASS	Horizontal	PK
6	15917.2459	0.07	51.66	51.73	68.20	16.47	PASS	Horizontal	PK
7	1279.9780	1.08	41.03	42.11	68.20	26.09	PASS	Vertical	PK
8	2003.3003	4.63	40.26	44.89	68.20	23.31	PASS	Vertical	PK
9	3176.0176	6.93	39.04	45.97	68.20	22.23	PASS	Vertical	PK
10	8336.0668	-10.89	56.40	45.51	68.20	22.69	PASS	Vertical	PK
11	11435.4718	-6.08	53.61	47.53	68.20	20.67	PASS	Vertical	PK
12	13906.9453	-0.88	50.57	49.69	68.20	18.51	PASS	Vertical	PK

Mode:			802.11 ac(VHT80) Transmitting			Channel:		5290MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1407.5908	1.45	40.43	41.88	68.20	26.32	PASS	Horizontal	PK
2	2329.4829	4.14	40.28	44.42	68.20	23.78	PASS	Horizontal	PK
3	3816.2816	8.61	37.30	45.91	68.20	22.29	PASS	Horizontal	PK
4	8464.2982	-10.61	57.32	46.71	68.20	21.49	PASS	Horizontal	PK
5	11864.4432	-5.71	54.75	49.04	68.20	19.16	PASS	Horizontal	PK
6	15893.6697	0.03	51.36	51.39	68.20	16.81	PASS	Horizontal	PK
7	1456.5457	1.52	40.56	42.08	68.20	26.12	PASS	Vertical	PK
8	2153.4653	4.45	39.61	44.06	68.20	24.14	PASS	Vertical	PK
9	3430.1430	7.59	37.84	45.43	68.20	22.77	PASS	Vertical	PK
10	8464.2982	-10.61	56.51	45.90	68.20	22.30	PASS	Vertical	PK
11	10583.8542	-6.45	53.92	47.47	68.20	20.73	PASS	Vertical	PK
12	15902.8701	0.12	50.92	51.04	68.20	17.16	PASS	Vertical	PK

Mode:			802.11 ac(VHT80) Transmitting			Channel:		5530MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1305.2805	1.66	40.86	42.52	68.20	25.68	PASS	Horizontal	PK
2	1955.4455	4.94	40.36	45.30	68.20	22.90	PASS	Horizontal	PK
3	3079.2079	7.57	40.25	47.82	68.20	20.38	PASS	Horizontal	PK
4	8462.7975	-10.62	54.74	44.12	68.20	24.08	PASS	Horizontal	PK
5	11933.7289	-5.23	53.80	48.57	68.20	19.63	PASS	Horizontal	PK
6	14374.1916	0.36	49.73	50.09	68.20	18.11	PASS	Horizontal	PK
7	1133.6634	1.12	41.42	42.54	68.20	25.66	PASS	Vertical	PK
8	2125.4125	5.31	40.29	45.60	68.20	22.60	PASS	Vertical	PK
9	3227.7228	8.00	39.42	47.42	68.20	20.78	PASS	Vertical	PK
10	8847.6898	-9.18	54.57	45.39	68.20	22.81	PASS	Vertical	PK
11	11919.1613	-5.32	54.01	48.69	68.20	19.51	PASS	Vertical	PK
12	14367.2912	0.29	51.31	51.60	68.20	16.60	PASS	Vertical	PK



Mode:			802.11 ac(VHT80) Transmitting			Channel:		5775MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1279.4279	1.52	41.11	42.63	68.20	25.57	PASS	Horizontal	PK
2	2027.5028	5.23	40.32	45.55	68.20	22.65	PASS	Horizontal	PK
3	3078.6579	7.54	40.34	47.88	68.20	20.32	PASS	Horizontal	PK
4	9169.7113	-8.00	53.16	45.16	68.20	23.04	PASS	Horizontal	PK
5	12457.3972	-4.16	53.22	49.06	68.20	19.14	PASS	Horizontal	PK
6	15505.8671	0.47	49.91	50.38	68.20	17.82	PASS	Horizontal	PK
7	1287.6788	1.57	40.96	42.53	68.20	25.67	PASS	Vertical	PK
8	2059.9560	5.41	39.46	44.87	68.20	23.33	PASS	Vertical	PK
9	3078.6579	7.54	39.75	47.29	68.20	20.91	PASS	Vertical	PK
10	9239.4826	-7.66	55.01	47.35	68.20	20.85	PASS	Vertical	PK
11	12454.3303	-4.15	53.89	49.74	68.20	18.46	PASS	Vertical	PK
12	16463.4976	0.16	51.81	51.97	68.20	16.23	PASS	Vertical	PK

**Note:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) During the test, the Radiates Emission from 1GHz to 40GHz was performed in all modes,,Through Pre-scan, for adapter 1 and adapter 2,adapter 1 was the worst case;for SISO,ANT1 was the worst case;only the worst case was recorded in the report.

## 6.8 Radiated Emission which fall in the restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	<p>*(1) 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.</p> <p>(2) 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.</p> <p>(3) 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.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed</p>				

	<p>the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p> <p>Note:</p> <p>(i) <math>EIRP = ((E*d)^2) / 30</math></p> <p>where:</p> <ul style="list-style-type: none"><li>• E is the field strength in V/m;</li><li>• d is the measurement distance in meters;</li><li>• EIRP is the equivalent isotropically radiated power in watts.</li></ul> <p>(ii) Working in dB units, the above equation is equivalent to:</p> $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ <p>(iii) Or, if d is 3 meters:</p> $EIRP[dBm] = E[dB\mu V/m] - 95.2$
Test Setup:	

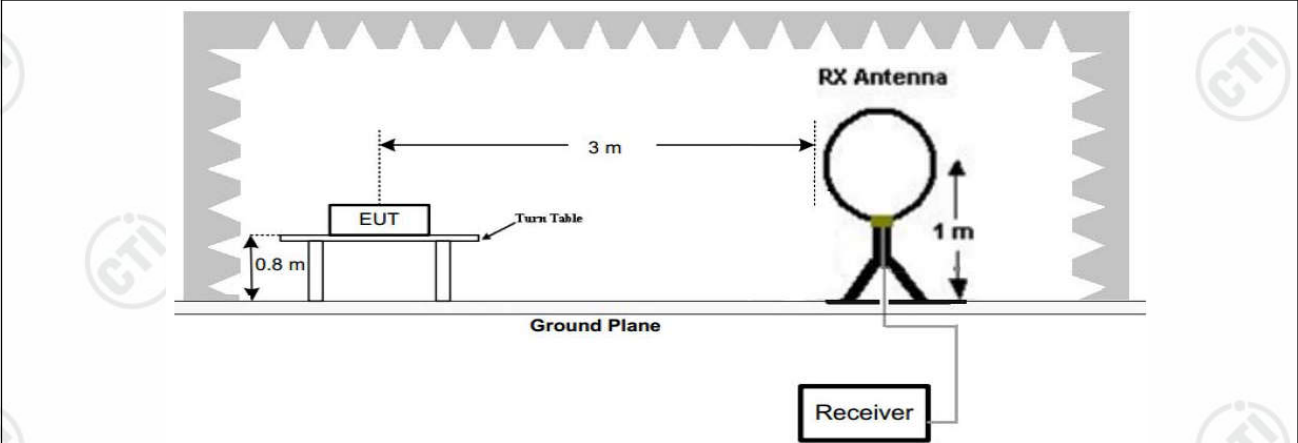


Figure 1. Below 30MHz

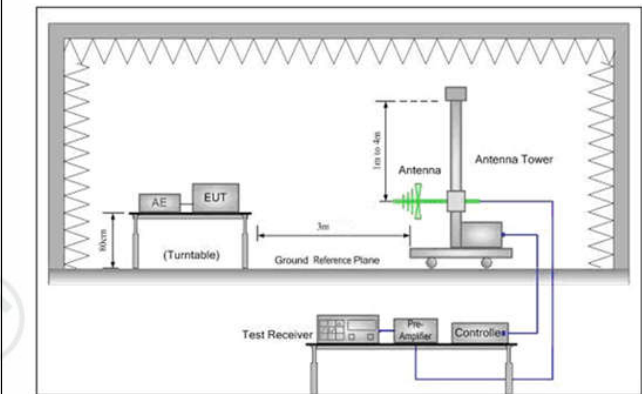


Figure 2. 30MHz to 1GHz

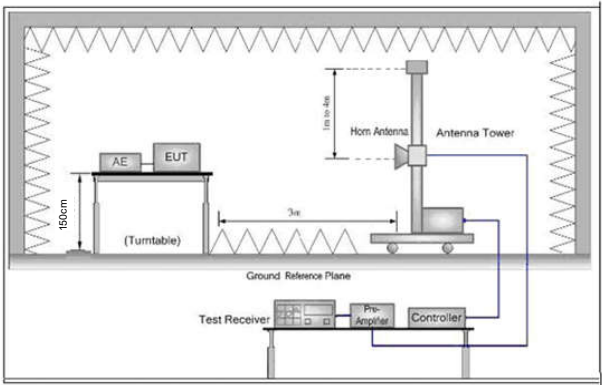


Figure 3. Above 1 GHz

Test Procedure:	<p>j.</p> <p>1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>Note: For the radiated emission test above 1GHz:</p>
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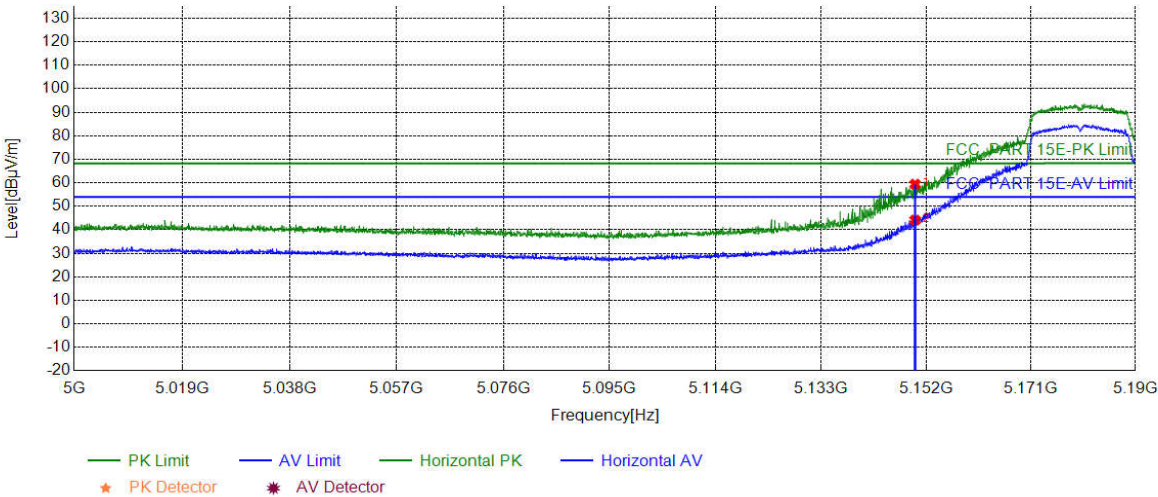
	<p>Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>k. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>l. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>m. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>n. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>o. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>p. Test the EUT in the lowest channel, the Highest channel</p> <p>q. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>r. Repeat above procedures until all frequencies measured was complete.</p>
Test Mode:	Transmitting mode with modulation
Test Results:	Pass



Test Data:

Mode:	802.11 a Transmitting	Channel:	5180
Remark:			

Test Graph

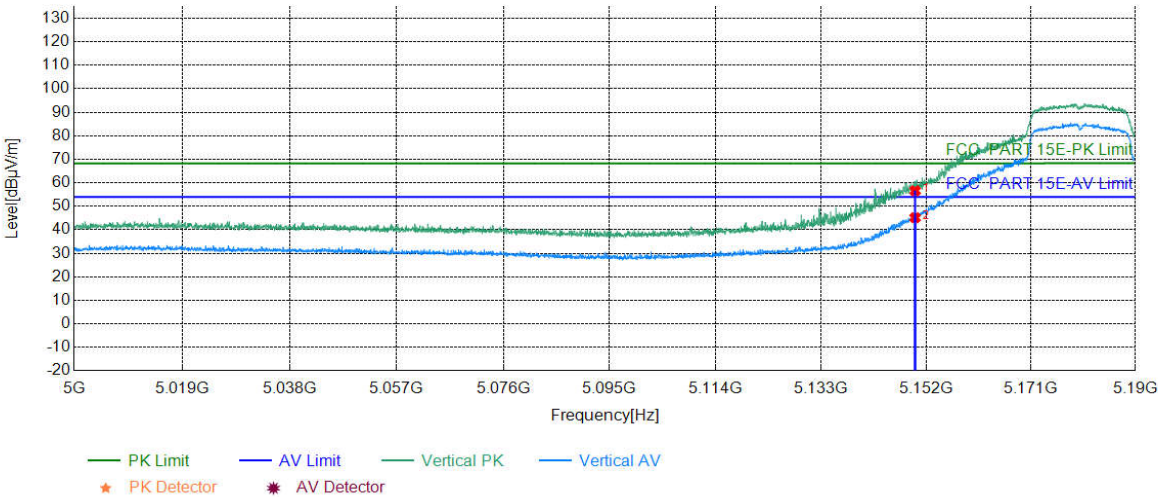


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150.0000	-15.08	74.46	59.38	68.29	8.91	PASS	Horizontal	PK
2	5150.0000	-15.08	59.20	44.12	54.00	9.88	PASS	Horizontal	AV



Mode:	802.11 a Transmitting	Channel:	5180
Remark:			

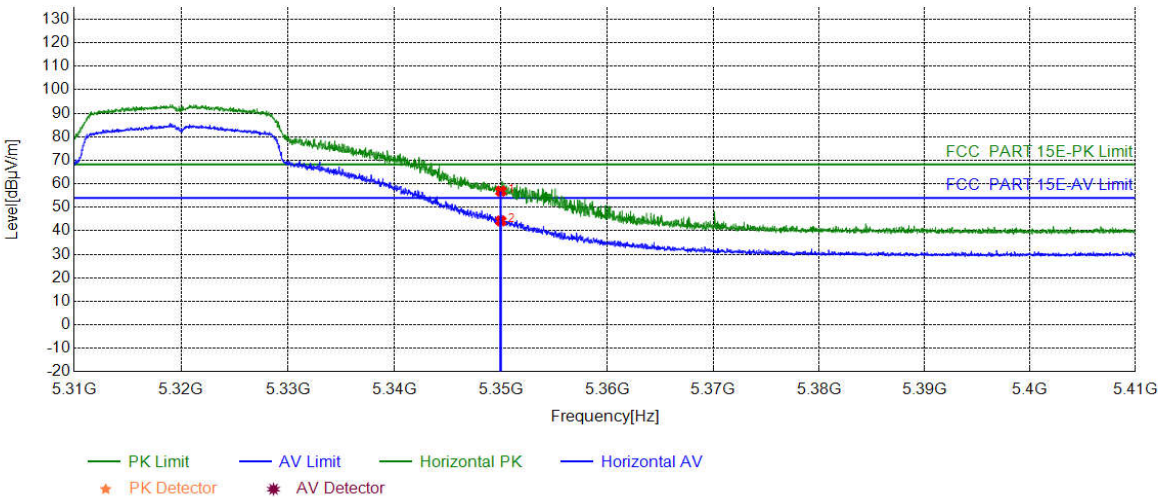
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150.0000	-15.08	71.66	56.58	68.29	11.71	PASS	Vertical	PK
2	5150.0000	-15.08	60.23	45.15	54.00	8.85	PASS	Vertical	AV

Mode:	802.11 a Transmitting	Channel:	5320
Remark:			

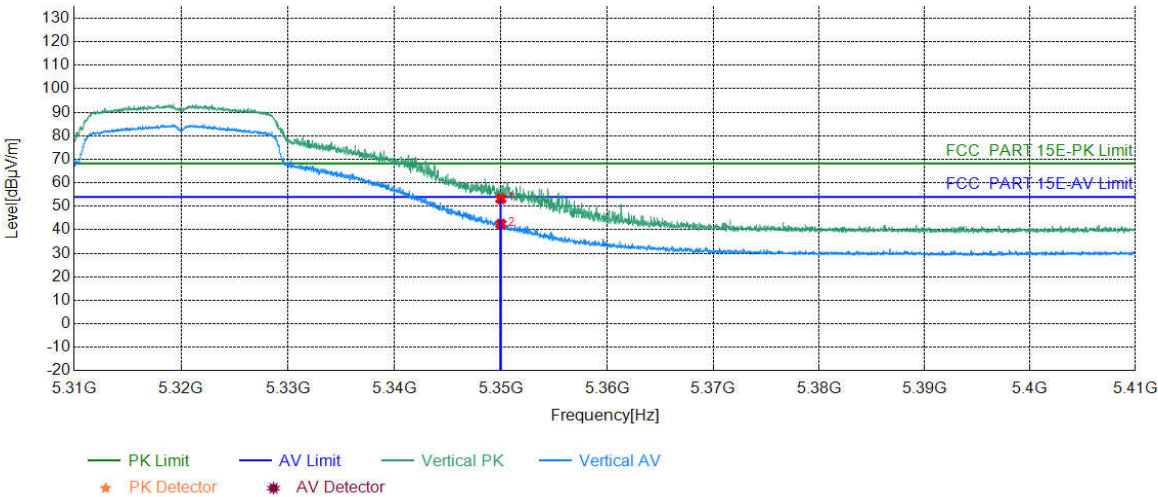
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350.0000	-14.67	71.53	56.86	68.20	11.34	PASS	Horizontal	PK
2	5350.0000	-14.67	58.86	44.19	54.00	9.81	PASS	Horizontal	AV

Mode:	802.11 a Transmitting	Channel:	5320
Remark:			

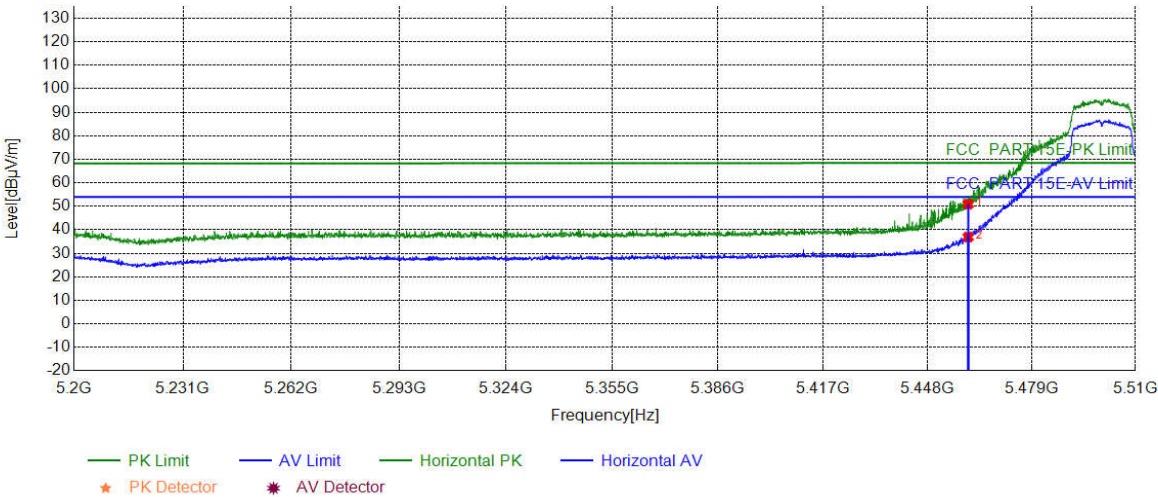
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350.0000	-14.67	67.86	53.19	68.20	15.01	PASS	Vertical	PK
2	5350.0000	-14.67	57.11	42.44	54.00	11.56	PASS	Vertical	AV

Mode:	802.11 a Transmitting	Channel:	5500
Remark:			

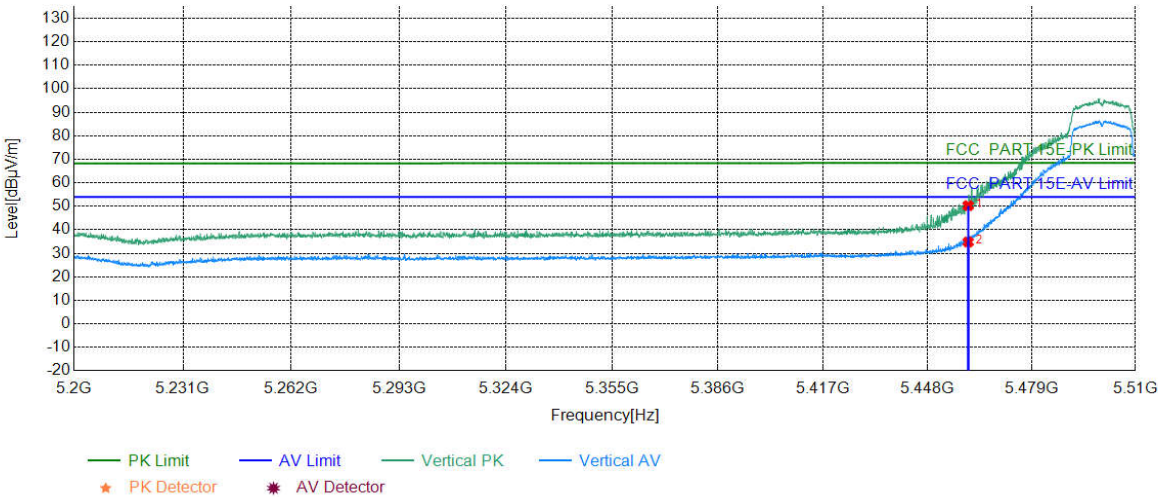
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5460.0000	-14.52	65.42	50.90	68.45	17.55	PASS	Horizontal	PK
2	5460.0000	-14.52	51.43	36.91	54.00	17.09	PASS	Horizontal	AV

Mode:	802.11 a Transmitting	Channel:	5500
Remark:			

Test Graph

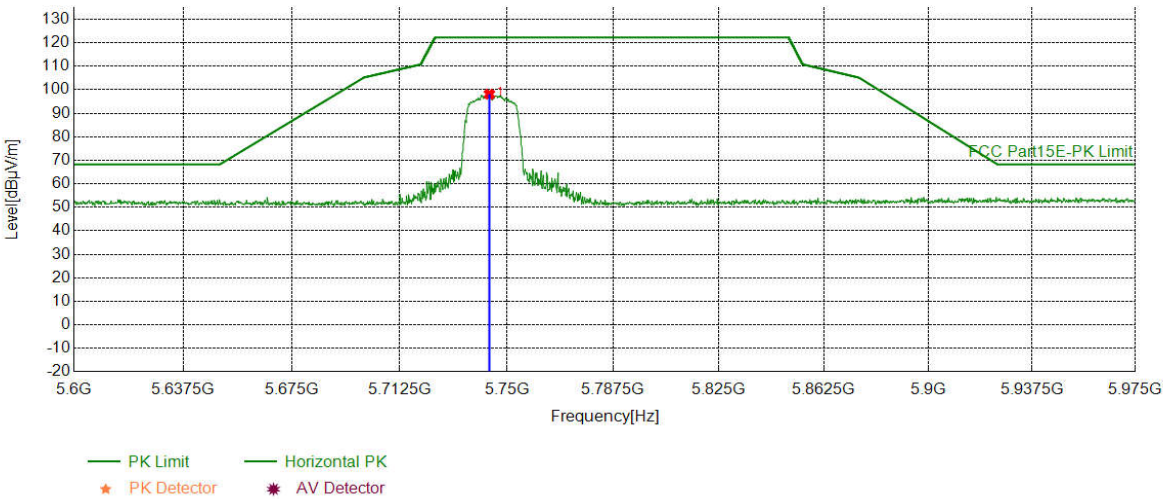


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5460.0000	-14.52	64.80	50.28	68.45	18.17	PASS	Vertical	PK
2	5460.0000	-14.52	49.32	34.80	54.00	19.20	PASS	Vertical	AV



Mode:	802.11 a Transmitting	Channel:	5745
Remark:			

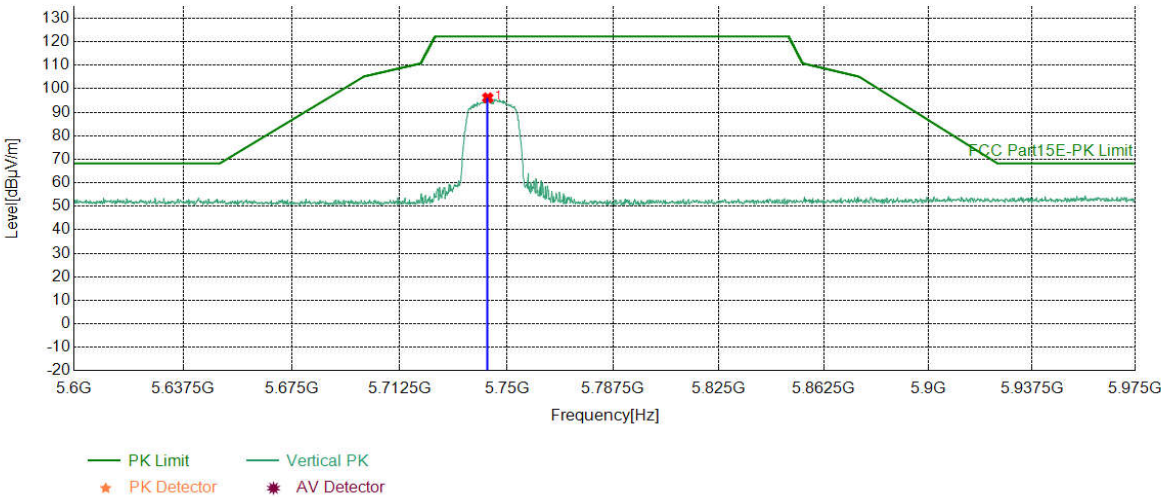
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.8844	13.84	84.28	98.12	122.20	24.08	PASS	Horizontal	PK

Mode:	802.11 a Transmitting	Channel:	5745
Remark:			

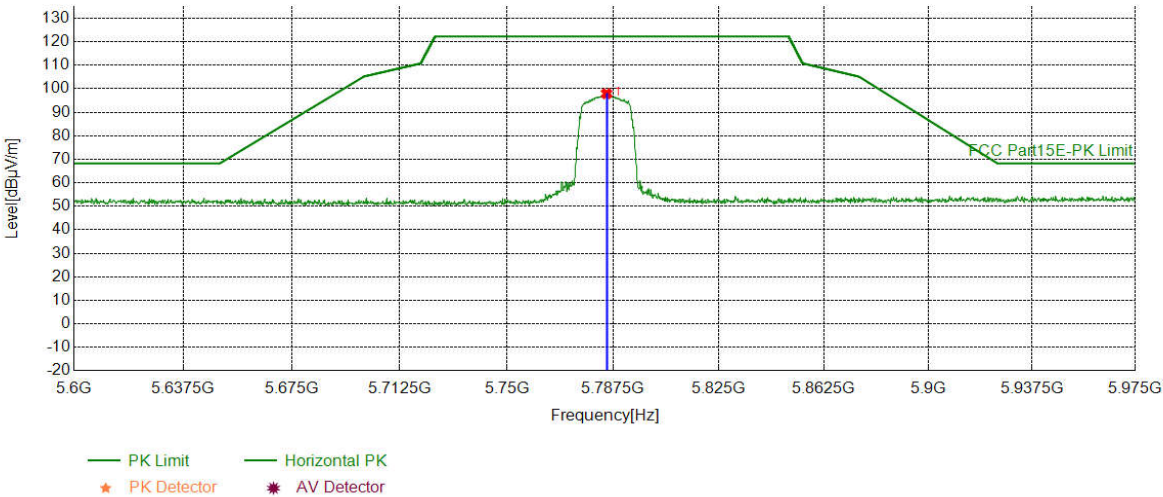
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.3217	13.84	82.29	96.13	122.20	26.07	PASS	Vertical	PK

Mode:	802.11 a Transmitting	Channel:	5785
Remark:			

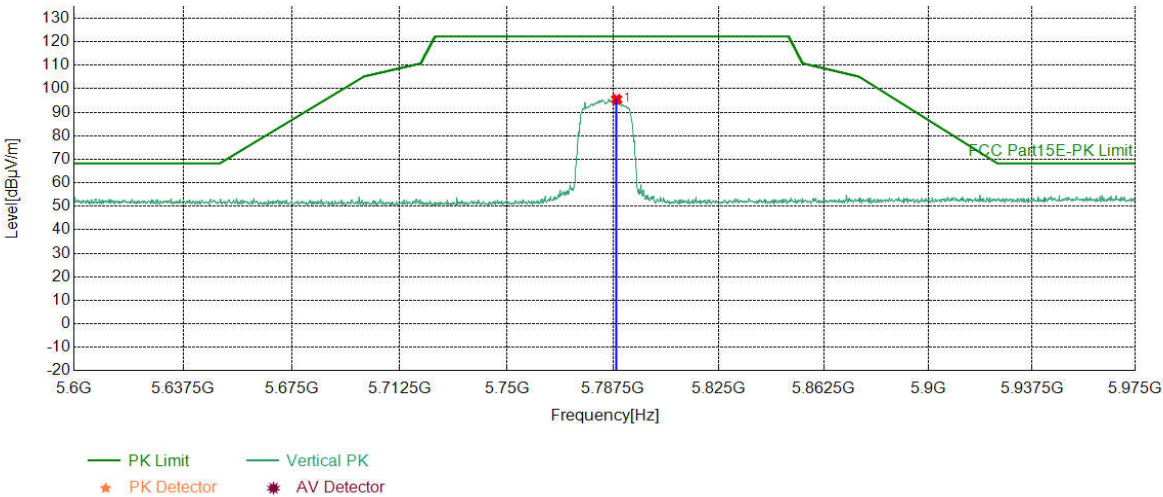
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5785.1551	13.91	84.02	97.93	122.20	24.27	PASS	Horizontal	PK

Mode:	802.11 a Transmitting	Channel:	5785
Remark:			

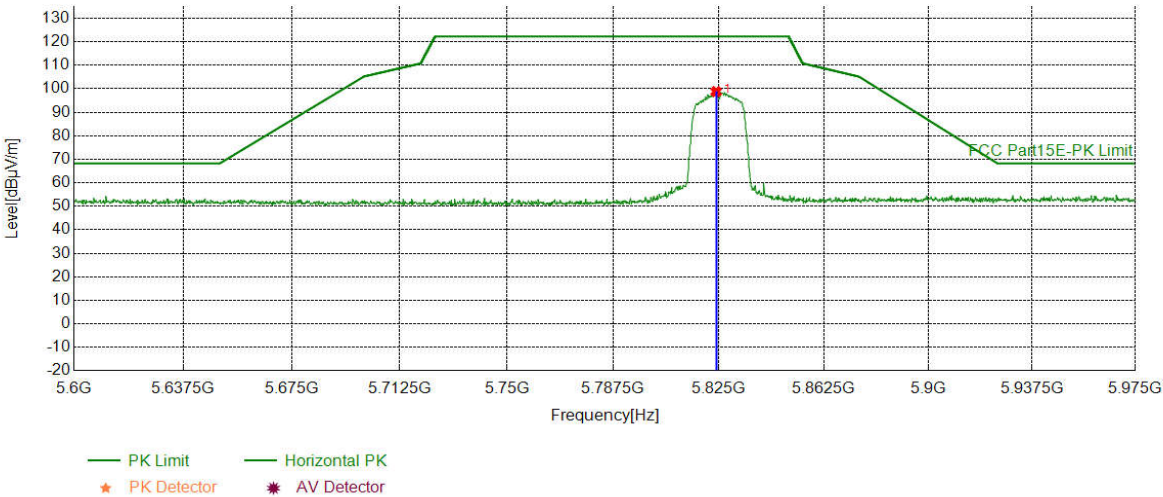
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5788.7194	13.92	81.55	95.47	122.20	26.73	PASS	Vertical	PK

Mode:	802.11 a Transmitting	Channel:	5825
Remark:			

Test Graph

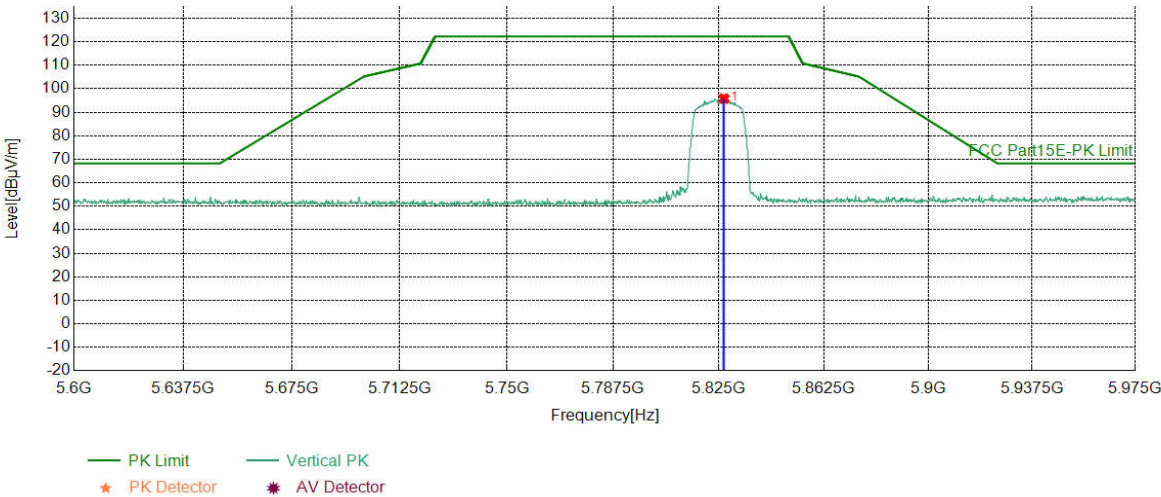


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5823.9870	14.03	84.76	98.79	122.20	23.41	PASS	Horizontal	PK



Mode:	802.11 a Transmitting	Channel:	5825
Remark:			

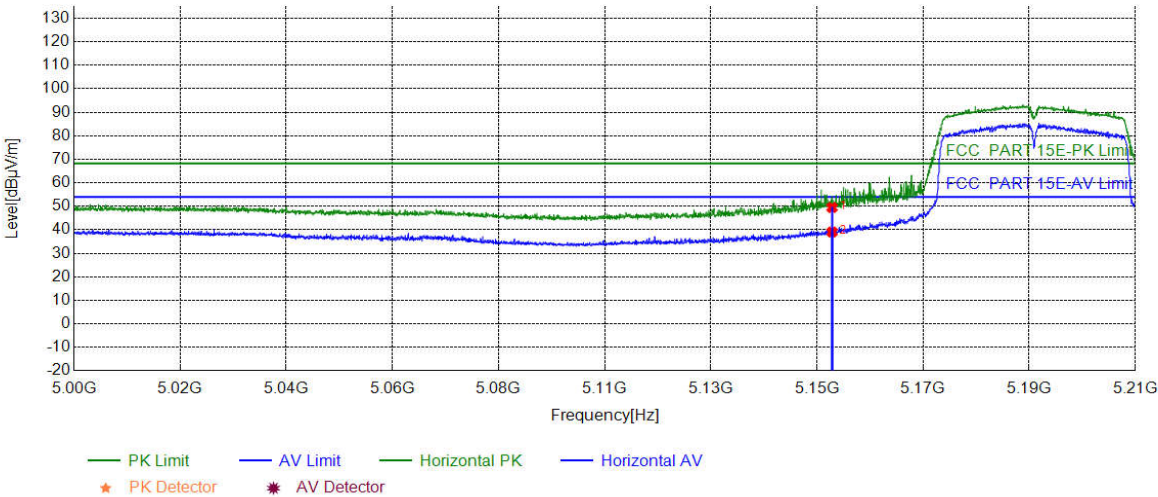
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5826.8009	14.04	81.76	95.80	122.20	26.40	PASS	Vertical	PK

Mode:	802.11 n(HT40) Transmitting	Channel:	5190
Remark:			

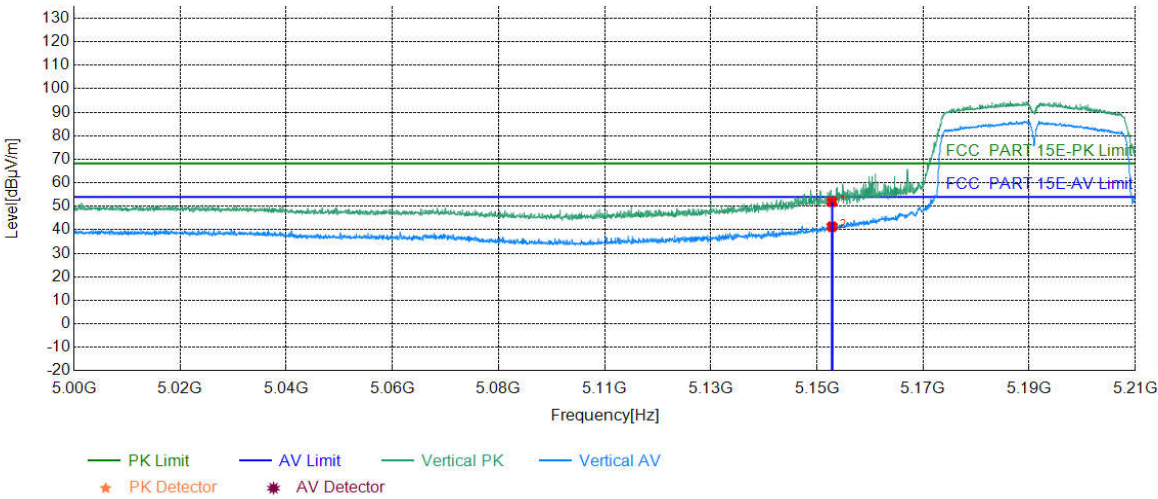
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150.0000	12.36	37.12	49.48	68.20	18.72	PASS	Horizontal	PK
2	5150.0000	12.36	26.71	39.07	54.00	14.93	PASS	Horizontal	AV

Mode:	802.11 n(HT40) Transmitting	Channel:	5190
Remark:			

Test Graph

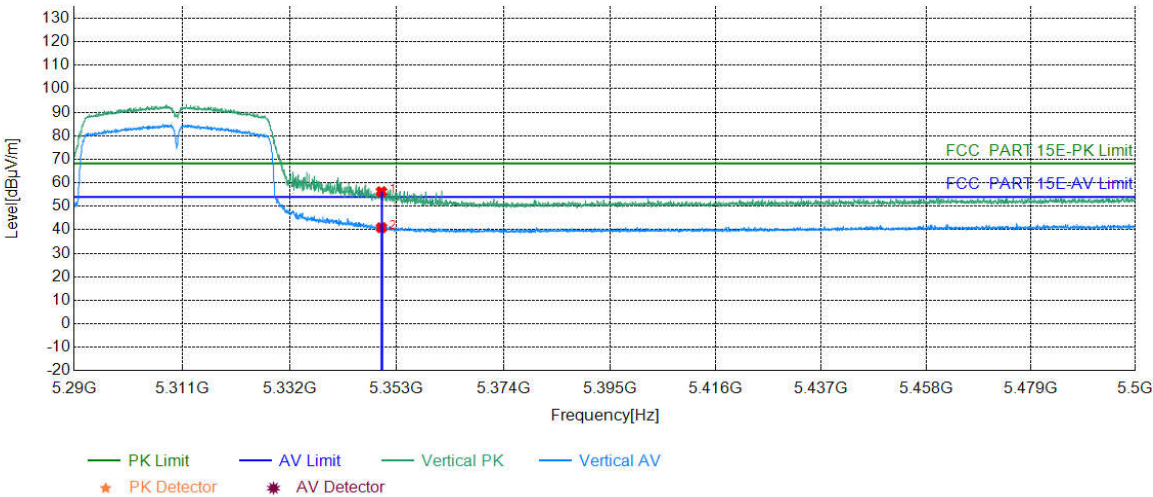


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150.0000	12.36	39.59	51.95	68.20	16.25	PASS	Vertical	PK
2	5150.0000	12.36	28.97	41.33	54.00	12.67	PASS	Vertical	AV



Mode:	802.11 n(HT40) Transmitting	Channel:	5310
Remark:			

Test Graph

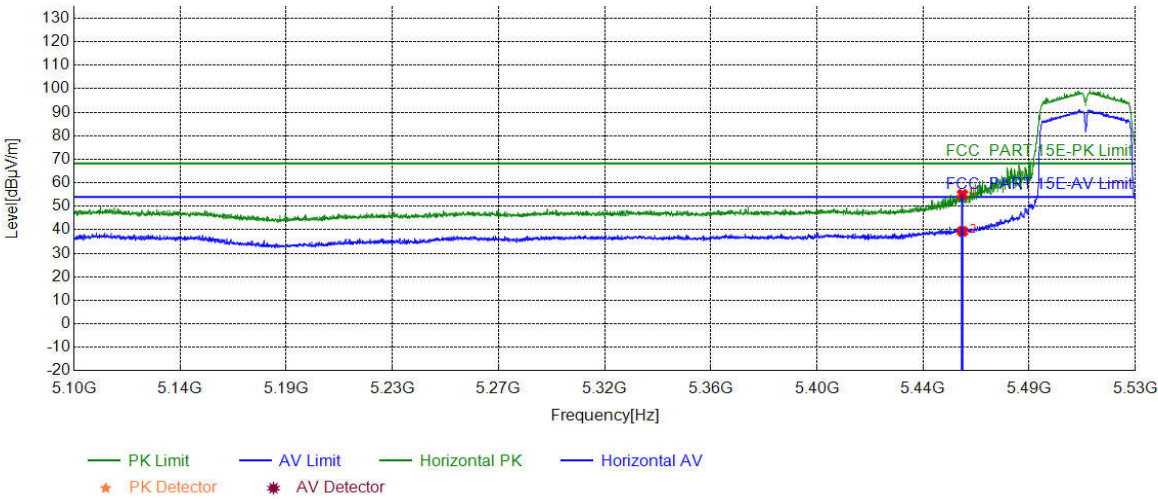


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350.0000	12.73	43.49	56.22	68.20	11.98	PASS	Vertical	PK
2	5350.0000	12.73	28.18	40.91	54.00	13.09	PASS	Vertical	AV



Mode:	802.11 n(HT40) Transmitting	Channel:	5510
Remark:			

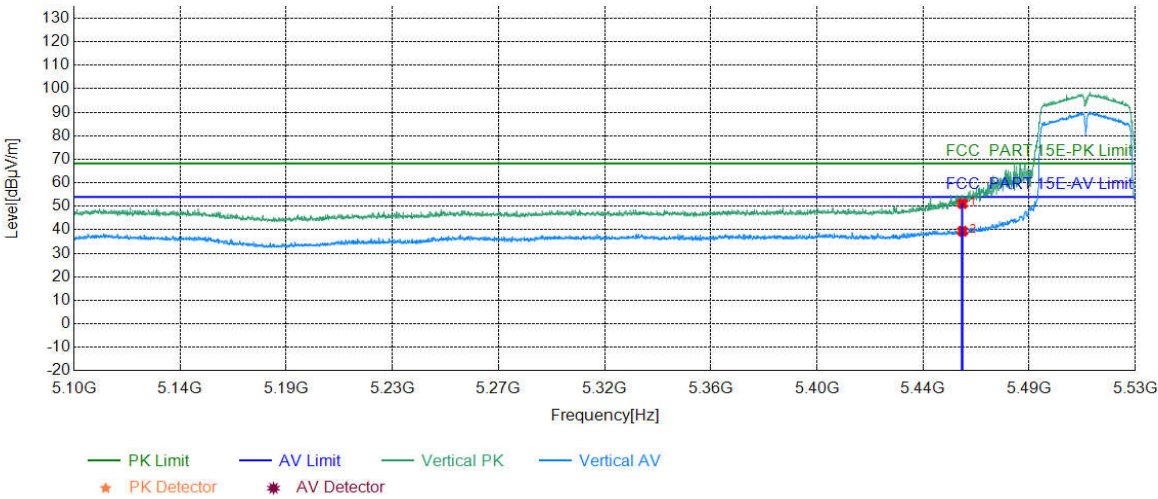
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5460.0000	13.24	41.82	55.06	68.20	13.14	PASS	Horizontal	PK
2	5460.0000	13.24	26.11	39.35	54.00	14.65	PASS	Horizontal	AV

Mode:	802.11 n(HT40) Transmitting	Channel:	5510
Remark:			

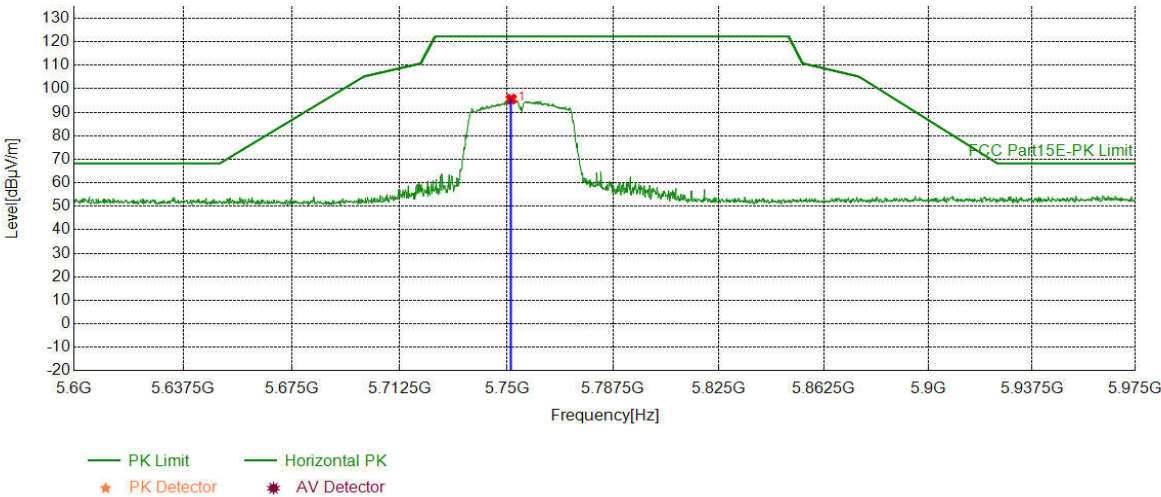
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5460.0000	13.24	37.91	51.15	68.20	17.05	PASS	Vertical	PK
2	5460.0000	13.24	26.17	39.41	54.00	14.59	PASS	Vertical	AV

Mode:	802.11 n(HT40) Transmitting	Channel:	5755
Remark:			

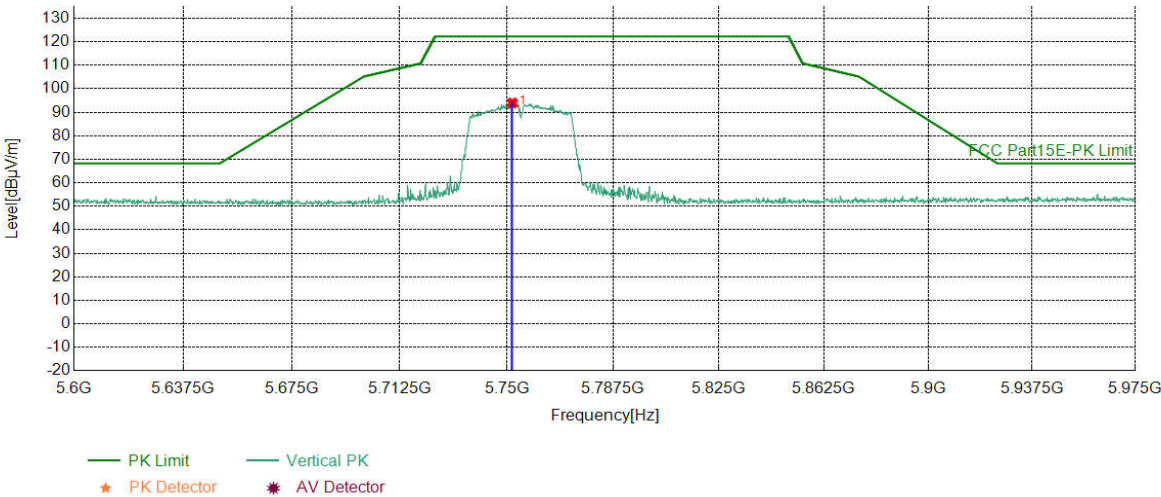
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5751.5758	13.86	81.77	95.63	122.20	26.57	PASS	Horizontal	PK

Mode:	802.11 n(HT40) Transmitting	Channel:	5755
Remark:			

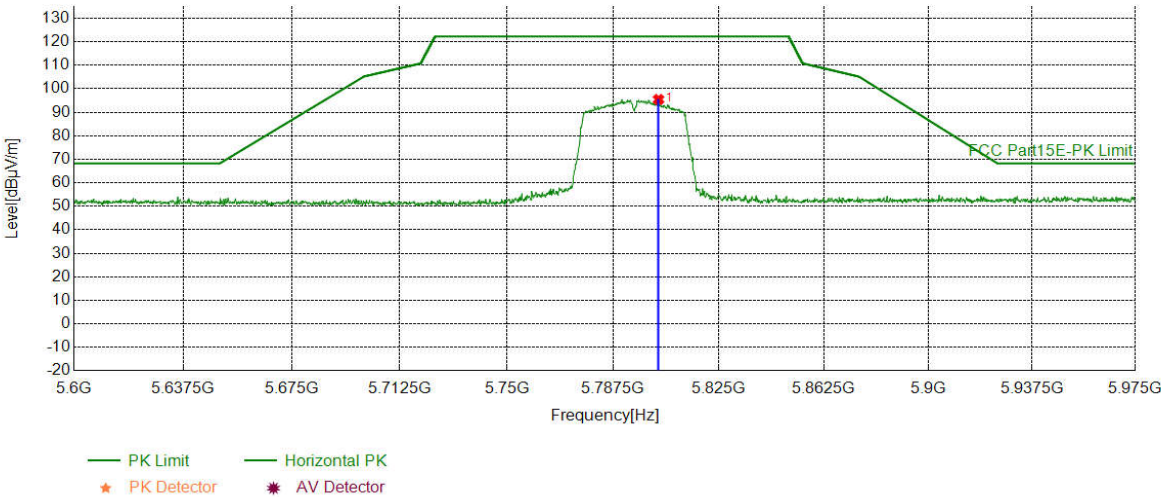
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5751.9510	13.86	80.11	93.97	122.20	28.23	PASS	Vertical	PK

Mode:	802.11 n(HT40) Transmitting	Channel:	5795
Remark:			

Test Graph

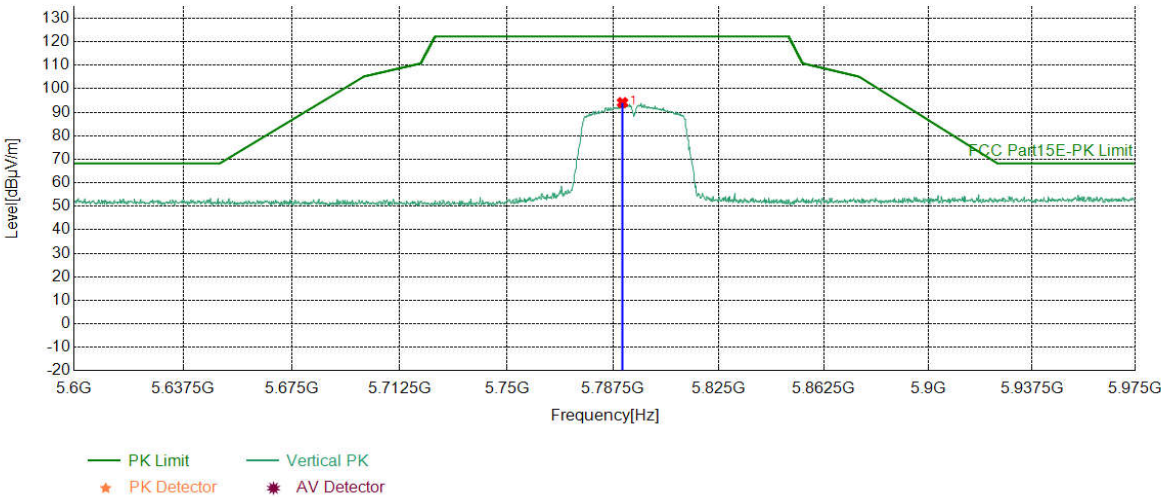


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5803.5393	13.95	81.51	95.46	122.20	26.74	PASS	Horizontal	PK



Mode:	802.11 n(HT40) Transmitting	Channel:	5795
Remark:			

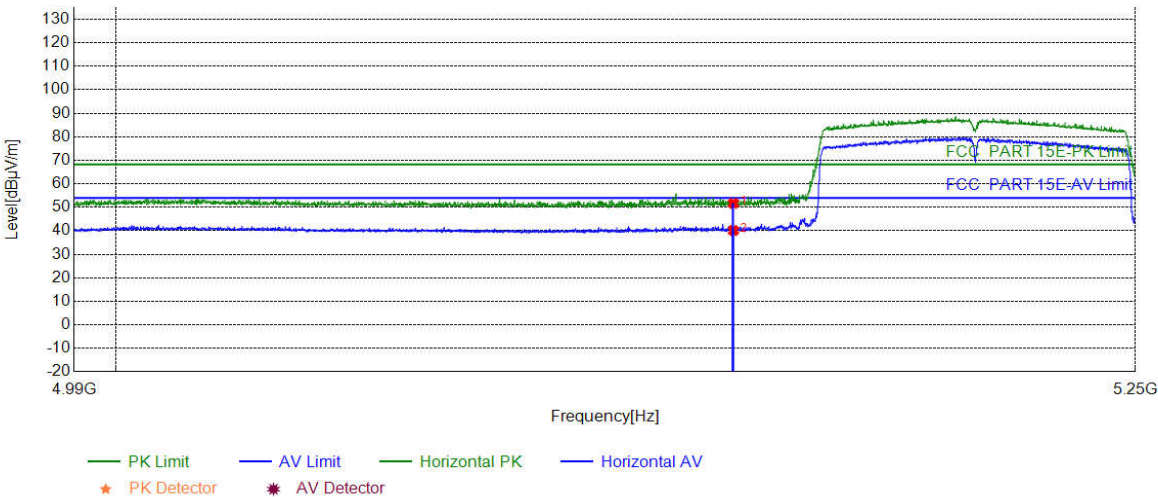
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5790.7829	13.92	80.19	94.11	122.20	28.09	PASS	Vertical	PK

Mode:	802.11 ac(VHT80) Transmitting	Channel:	5210
Remark:			

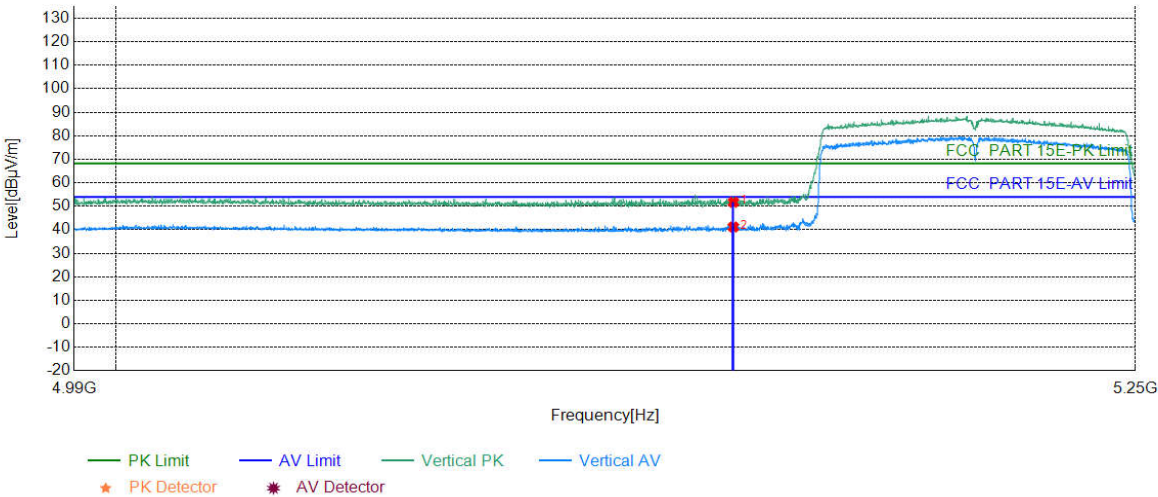
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150.0000	12.36	39.33	51.69	68.20	16.51	PASS	Horizontal	PK
2	5150.0000	12.36	27.78	40.14	54.00	13.86	PASS	Horizontal	AV

Mode:	802.11 ac(VHT80) Transmitting	Channel:	5210
Remark:			

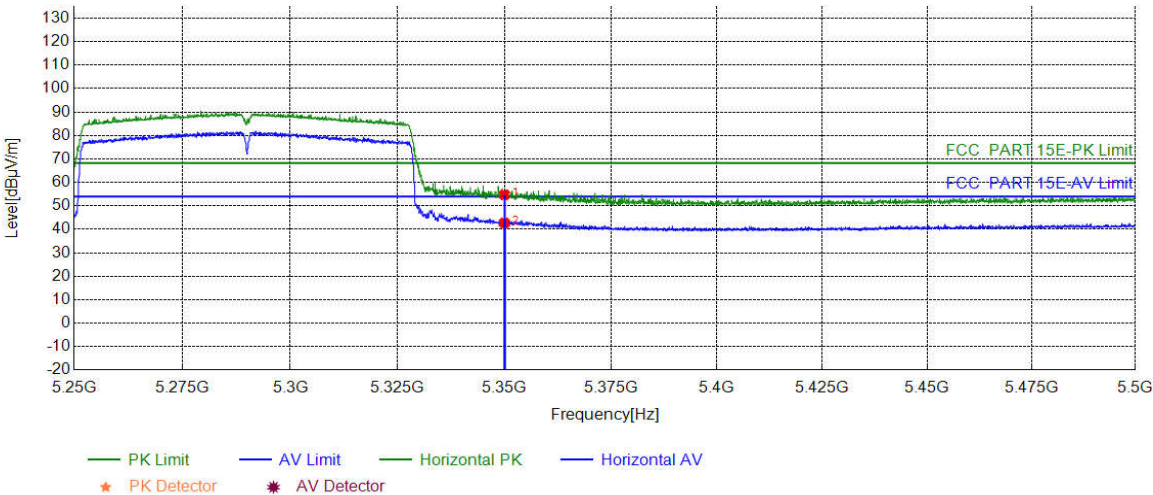
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150.0000	12.36	39.39	51.75	68.20	16.45	PASS	Vertical	PK
2	5150.0000	12.36	28.85	41.21	54.00	12.79	PASS	Vertical	AV

Mode:	802.11 ac(VHT80) Transmitting	Channel:	5290
Remark:			

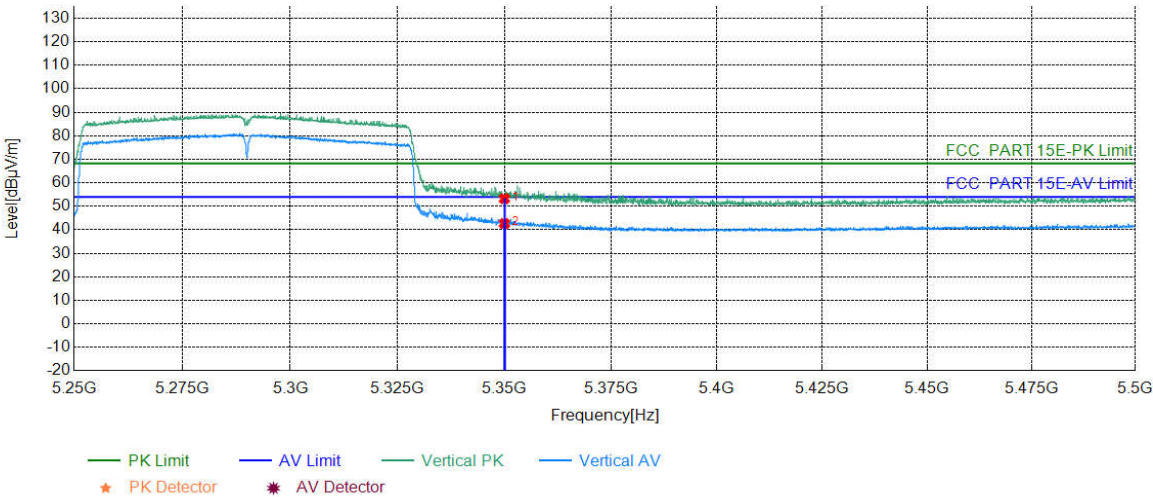
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350.0000	12.73	42.01	54.74	68.20	13.46	PASS	Horizontal	PK
2	5350.0000	12.73	29.99	42.72	54.00	11.28	PASS	Horizontal	AV

Mode:	802.11 ac(VHT80) Transmitting	Channel:	5290
Remark:			

Test Graph

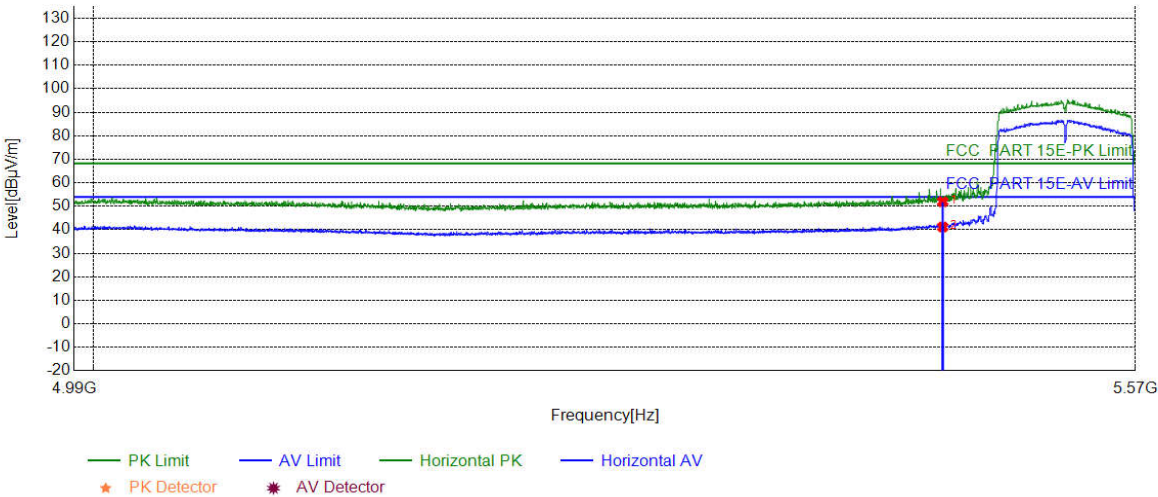


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5350.0000	12.73	40.52	53.25	68.20	14.95	PASS	Vertical	PK
2	5350.0000	12.73	29.94	42.67	54.00	11.33	PASS	Vertical	AV



Mode:	802.11 ac(VHT80) Transmitting	Channel:	5530
Remark:			

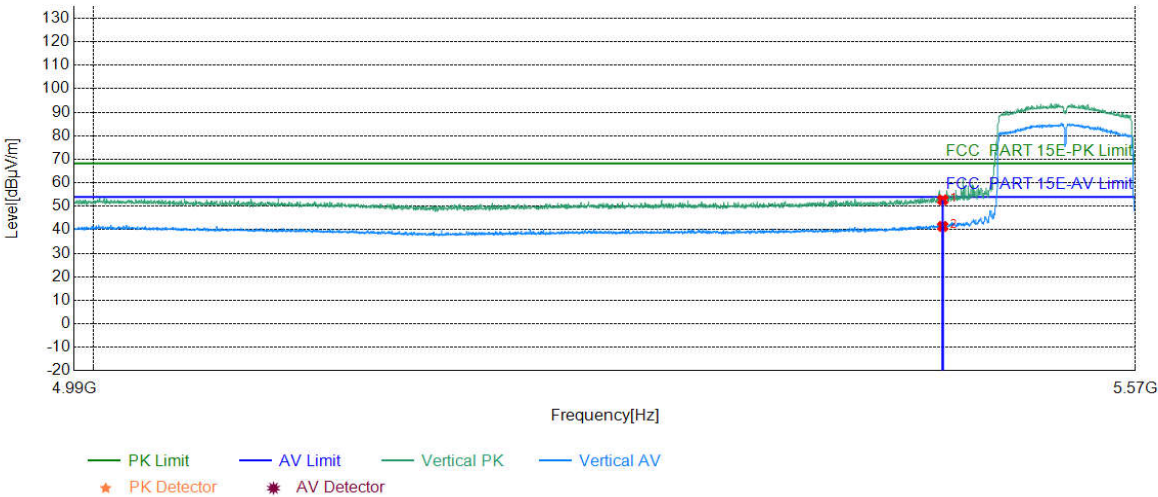
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5460.0000	13.24	38.71	51.95	68.20	16.25	PASS	Horizontal	PK
2	5460.0000	13.24	27.96	41.20	54.00	12.80	PASS	Horizontal	AV

Mode:	802.11 ac(VHT80) Transmitting	Channel:	5530
Remark:			

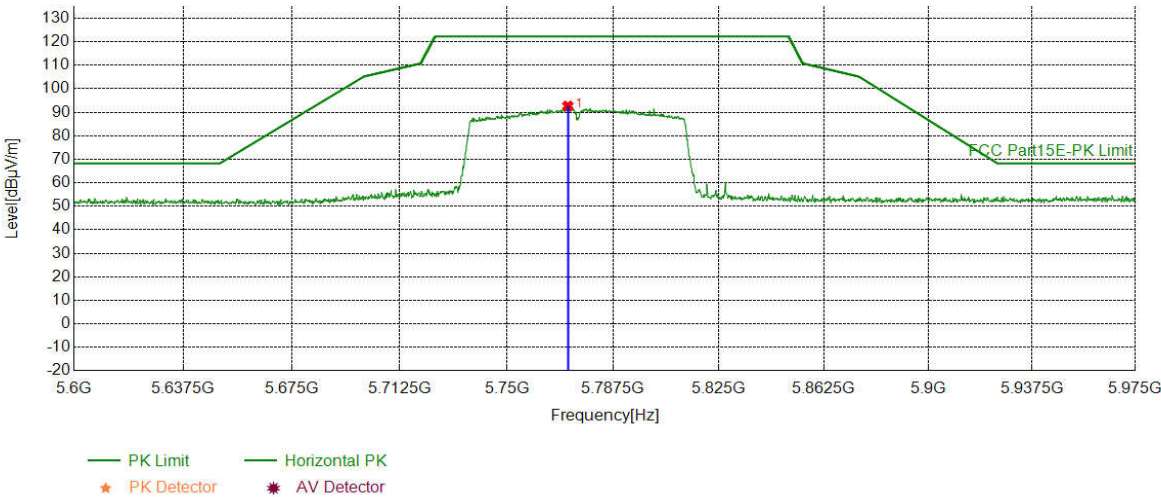
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5460.0000	13.24	39.47	52.71	68.20	15.49	PASS	Vertical	PK
2	5460.0000	13.24	28.20	41.44	54.00	12.56	PASS	Vertical	AV

Mode:	802.11 ac(VHT80) Transmitting	Channel:	5775
Remark:			

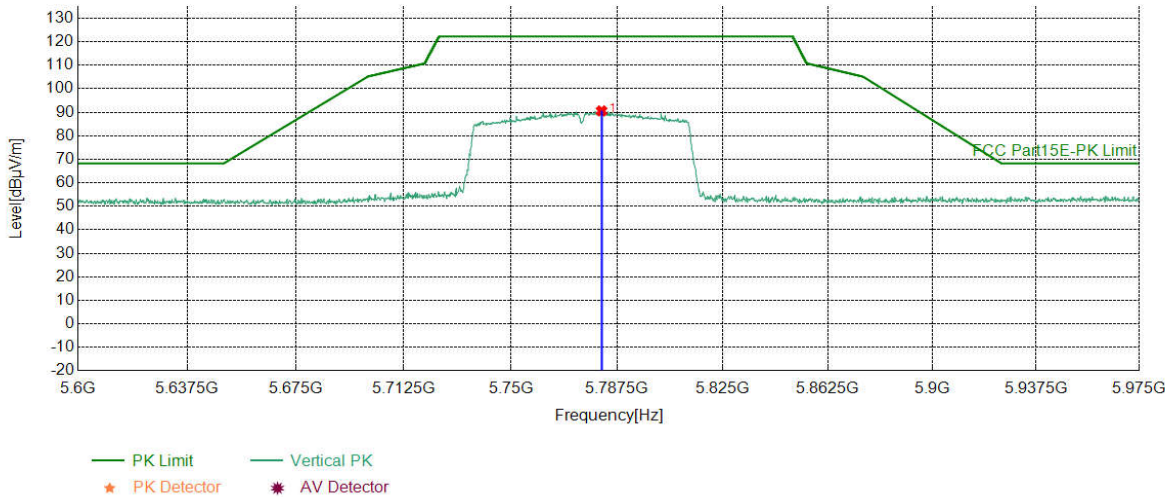
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5771.4607	13.89	78.76	92.65	122.20	29.55	PASS	Horizontal	PK

Mode:	802.11 ac(VHT80) Transmitting	Channel:	5775
Remark:			

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5781.9660	13.91	76.67	90.58	122.20	31.62	PASS	Vertical	PK

Note:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading - Correct Factor  
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor
- 2) Scan from 1GHz to 25GHz, the disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) Through Pre-scan, for adapter 1 and adapter 2, adapter 1 was the worst case; for SISO, ANT1 was the worst case; only the worst case was recorded in the report.

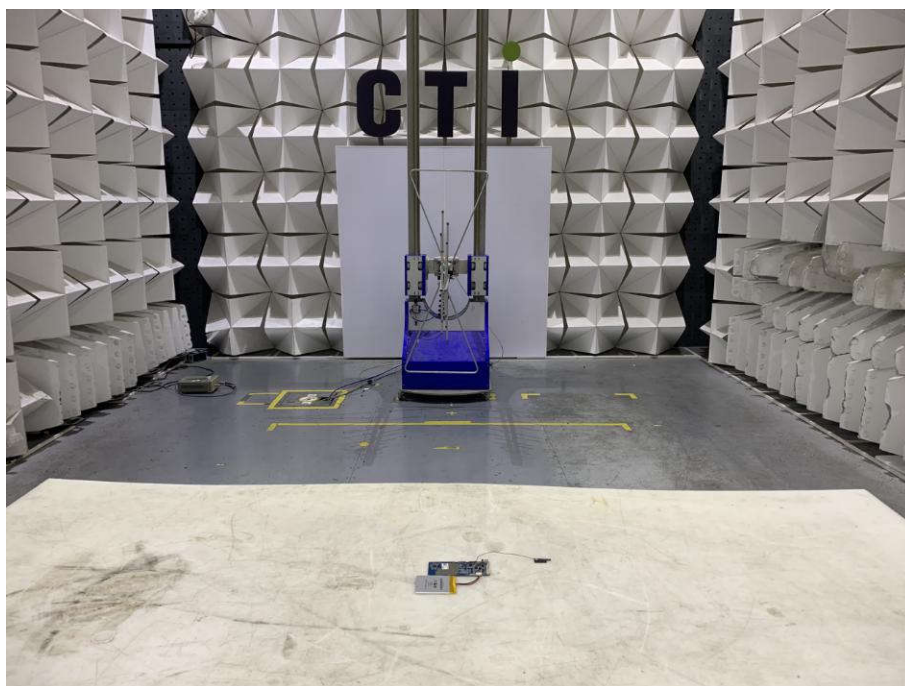
## 7 Appendix A

Refer to Appendix: 5G WIFI of EED32O80604204



## PHOTOGRAPHS OF TEST SETUP

Test model No.:T1000



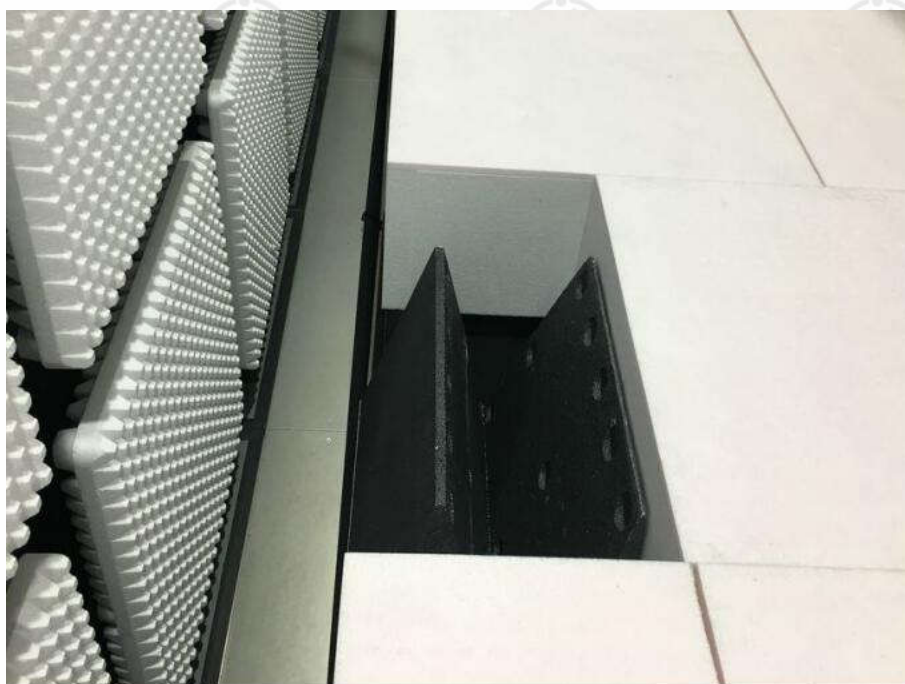
**Radiated spurious emission Test Setup-1(Below 1GHz)**



**Radiated spurious emission Test Setup-2(Above 1GHz)**



**Radiated spurious emission Test Setup-3(Above 18GHz)**



**Radiated spurious emission Test Setup-4**  
**There are absorbing materials under the ground.**

## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.: EED32O80604201 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*