

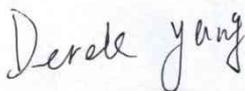
# FCC TEST REPORT

**Application No.:** AR/2020/B0003  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** M2101K9AG  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZK9AG  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR FCC Part 15, Subpart E  
**Test Method:** KDB 789033 D02 General UNII Test Procedures New Rules v02  
 FCC KDB 558074 D01 DTS Meas Guidance v0502  
 KDB 662911 D01 Multiple Transmitter Output v02r01  
 KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02  
 KDB 905462 D03 Client Without DFS New Rules v01r02  
 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices  
**Date of Receipt:** 2020/11/26  
**Date of Test:** 2020/11/26 to 2020/12/15  
**Date of Issue:** 2020/12/15

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-15		Original

Authorized for issue by:				
Tested By		 <hr/> (Mike Hu) /Project Engineer		
Checked By		 <hr/> (David Chen) /Reviewer		



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## 2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result
26dB Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5	PASS
	5250-5350	15.403(i) 15.407(a)(2)			
	5470-5725	15.403(i) 15.407(a)(2)			
6dB Emission Bandwidth	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS
	5250-5350				
	5470-5725				
	5725-5850				
Duty Cycle	5150-5850	--	No limit.	Clause 4.3	PASS
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.4	PASS
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*Ig(EB W)} (avg during transmission)		
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW,11dBm+10*Ig(EB W)} (avg during transmission)		
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)		
Maximum Power Spectral Density	5150-5250	15.407(a)(1) 15.407(a)(4)	<11dBm/MHz (avg during transmission)	Clause 4.8	PASS
	5250-5350	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)		
	5470-5725	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)		
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)		
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl.		PASS



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			5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	PASS
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.11	PASS
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	PASS



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057



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### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2101K9AG
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth), <input type="checkbox"/> 802.11ac (160 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	IFA
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a).
Antenna Gain:	-2.1dBi
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> Battery <input type="checkbox"/> PoE;; <input type="checkbox"/> Other:

**Remark:**

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre



For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Highest channel	5610

For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



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### 3.5 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -2.1dBi.	

### 4.2 AC Power Line Conducted Emissions

<b>Test Requirement:</b>	47 CFR Part 15 Section 15.407(b)		
<b>Test Method:</b>	ANSI C63.10: 2013		
<b>Test Frequency Range:</b>	150kHz to 30MHz		
<b>Limit:</b>	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>		



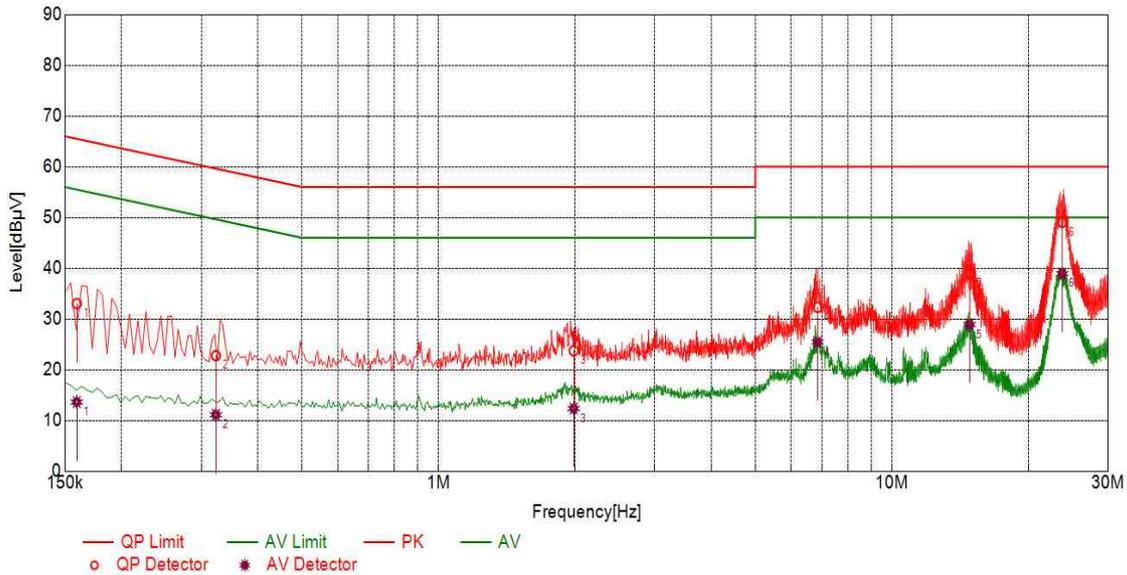
<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>



**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

**Live Line:**



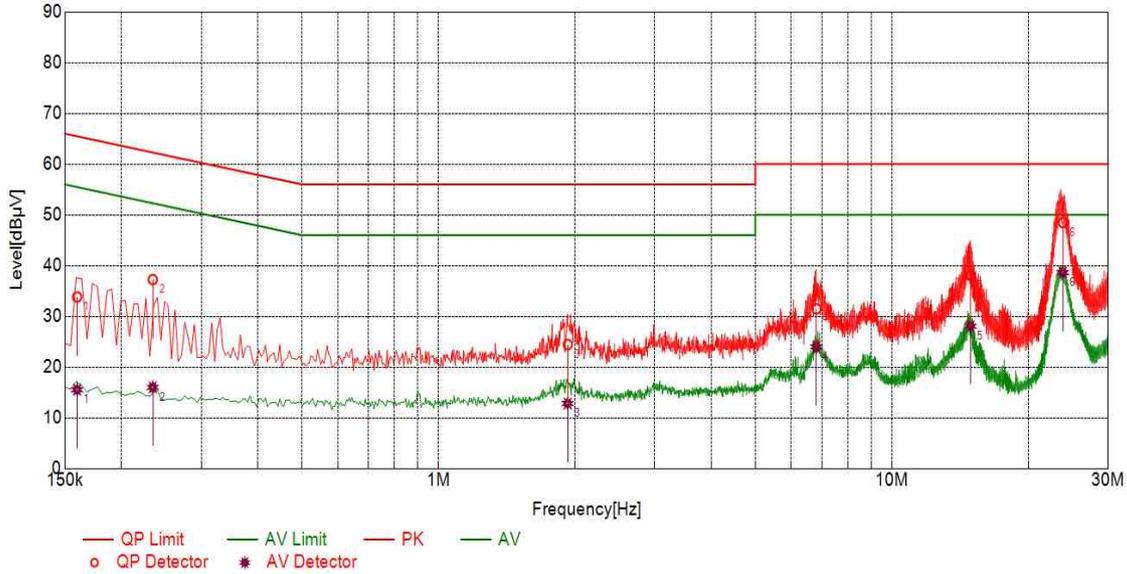
**Test Graph**

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1594	10.10	33.03	65.49	32.46	13.62	55.49	41.87	L
2	0.3231	10.10	22.76	59.63	36.87	11.12	49.63	38.51	L
3	1.9876	10.10	23.73	56.00	32.27	12.35	46.00	33.65	L
4	6.8576	10.10	32.31	60.00	27.69	25.44	50.00	24.56	L
5	14.8506	10.11	38.96	60.00	21.04	28.90	50.00	21.10	L
6	23.7650	10.11	49.06	60.00	10.94	38.94	50.00	11.06	L



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Neutral Line:



**Test Graph**

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1597	10.10	33.82	65.48	31.66	15.52	55.48	39.96	N
2	0.2345	10.10	37.26	62.29	25.03	16.00	52.29	36.29	N
3	1.9282	10.10	24.43	56.00	31.57	12.81	46.00	33.19	N
4	6.8166	10.10	31.47	60.00	28.53	23.99	50.00	26.01	N
5	14.9194	10.11	38.09	60.00	21.91	28.08	50.00	21.92	N
6	23.8401	10.11	48.49	60.00	11.51	38.63	50.00	11.37	N

**Remarks:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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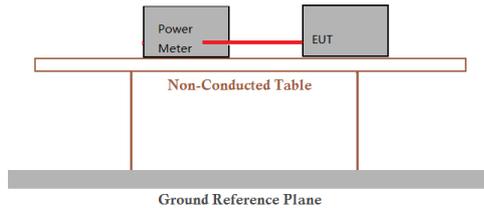
### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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#### 4.4 Conducted Output Power

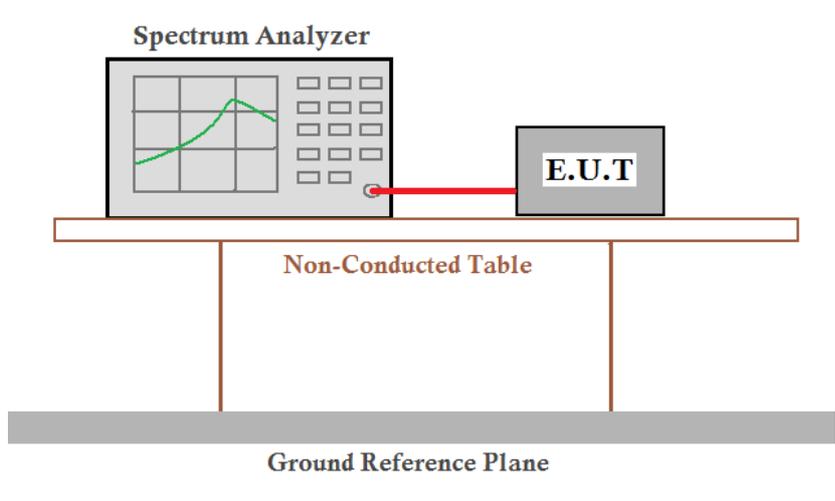
Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20). MCS0 of rate is the worst case of 802.11ac(HT40). MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5470-5725MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	

The detailed test data see: **Appendix**



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### 4.5 26dB Emission Bandwidth

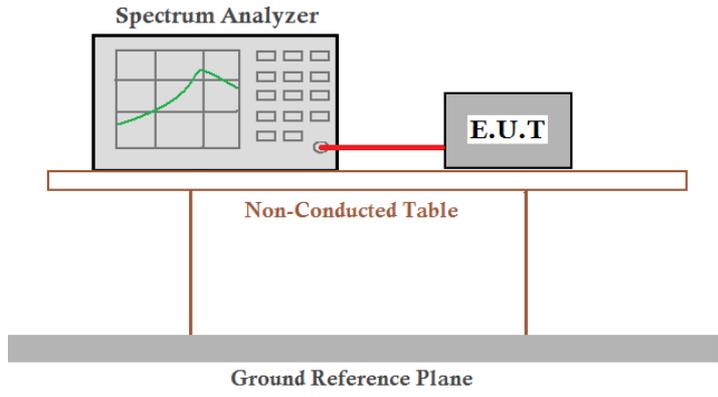
Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20). MCS0 of rate is the worst case of 802.11ac(HT40). MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.6 6dB Emission Bandwidth

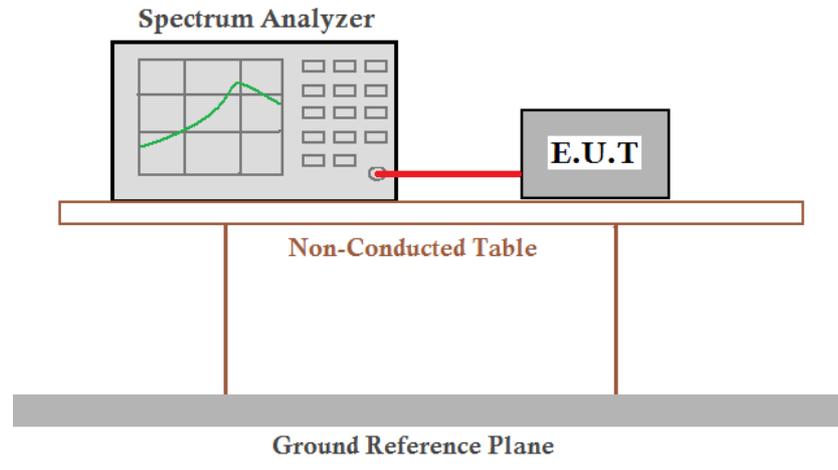
Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20). MCS0 of rate is the worst case of 802.11ac(HT40). MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	

The detailed test data see: **Appendix**



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### 4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20). MCS0 of rate is the worst case of 802.11ac(HT40). MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

The detailed test data see: **Appendix**



### 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20). MCS0 of rate is the worst case of 802.11ac(HT40). MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	

The detailed test data see: **Appendix**



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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

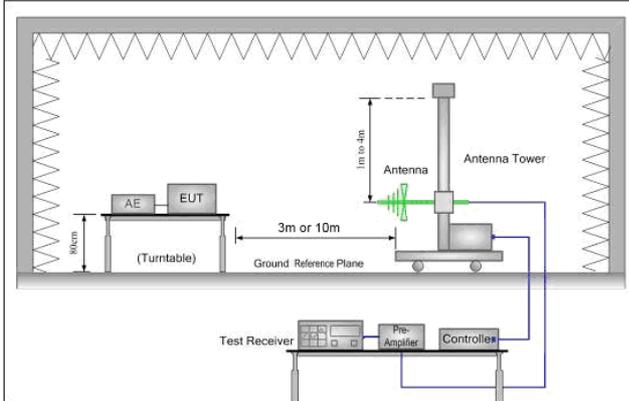


Figure 1. 30MHz to 1GHz

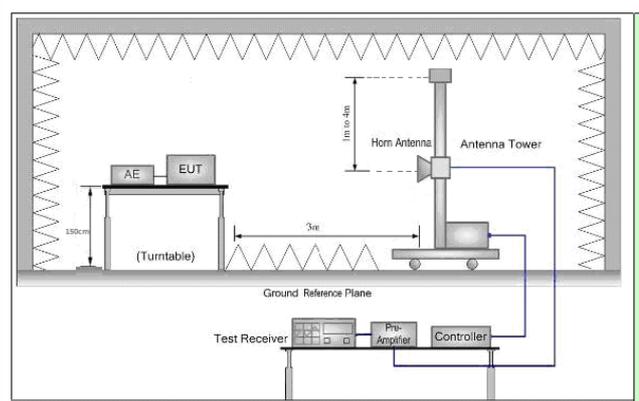


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For above 1GHz test, 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.</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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>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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Test the EUT in the outermost channels.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40);



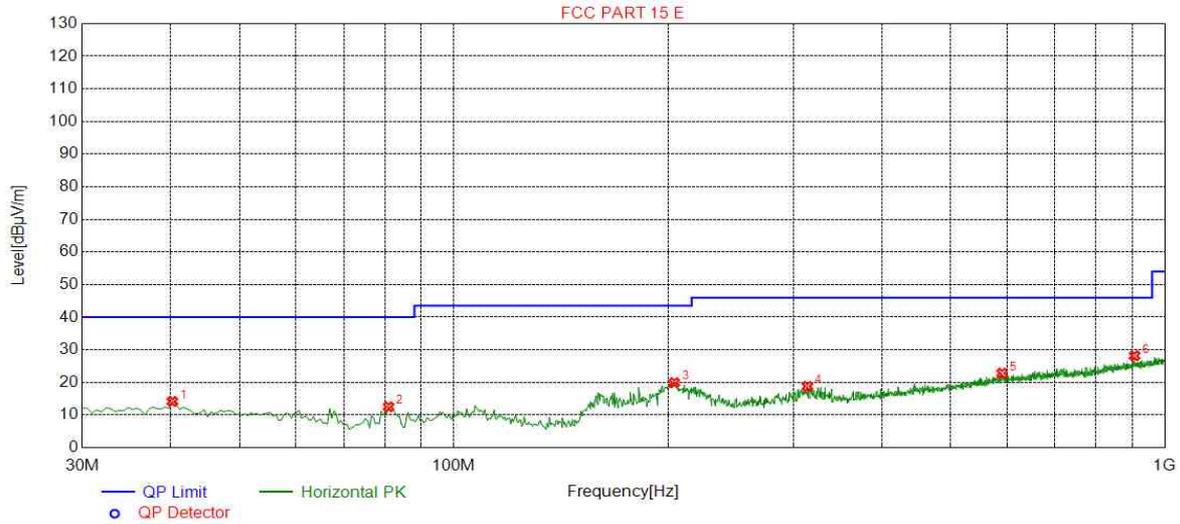
	<p>MCS0 of rate is the worst case of 802.11ac(HT20).  MCS0 of rate is the worst case of 802.11ac(HT40).  MCS0 of rate is the worst case of 802.11ac(HT80).  For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case.  Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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### 4.9.1 Radiated emission below 1GHz

#### Test Graph



#### Suspected List

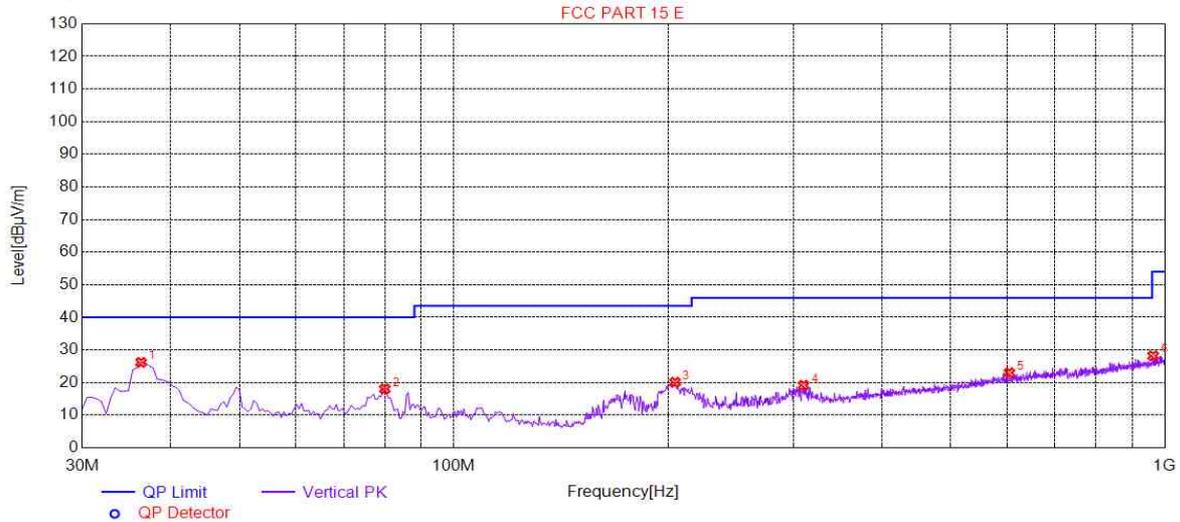
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.1901	14.20	40.00	25.80	150	61	Horizontal
2	80.9505	12.54	40.00	27.46	150	87	Horizontal
3	204.2021	19.94	43.50	23.56	150	309	Horizontal
4	314.3522	18.79	46.00	27.21	150	339	Horizontal
5	590.4552	22.86	46.00	23.14	150	339	Horizontal
6	906.8334	28.18	46.00	17.82	150	31	Horizontal

#### Final Data List



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**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.3082	26.20	40.00	13.80	150	14	Vertical
2	79.9800	18.07	40.00	21.93	150	257	Vertical
3	204.6873	20.11	43.50	23.39	150	328	Vertical
4	310.4702	19.18	46.00	26.82	150	18	Vertical
5	604.5273	23.03	46.00	22.97	150	229	Vertical
6	963.1216	28.23	54.00	25.77	150	133	Vertical

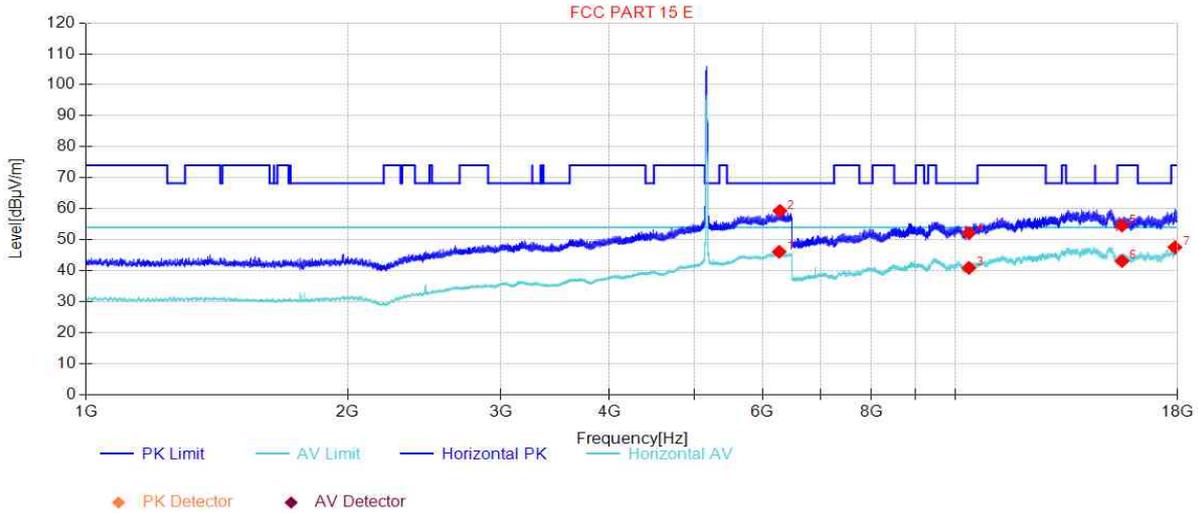
**Final Data List**



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**4.9.1 Transmitter emission above 1GHz**  
**4.9.1.1 802.11A\_Channel 36**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6268.617	46.10	18.33	54.00	7.90	400	Horizontal
2	6280.718	59.30	18.39	68.20	8.90	200	Horizontal
3	10360.00	40.89	2.38	54.00	13.11	400	Horizontal
4	10360.00	52.12	2.38	68.20	16.08	100	Horizontal
5	15540.00	54.57	5.88	74.00	19.43	400	Horizontal
6	15540.00	43.10	5.88	54.00	10.90	300	Horizontal
7	17874.87	47.55	8.63	54.00	6.45	200	Horizontal

**Final Data List**



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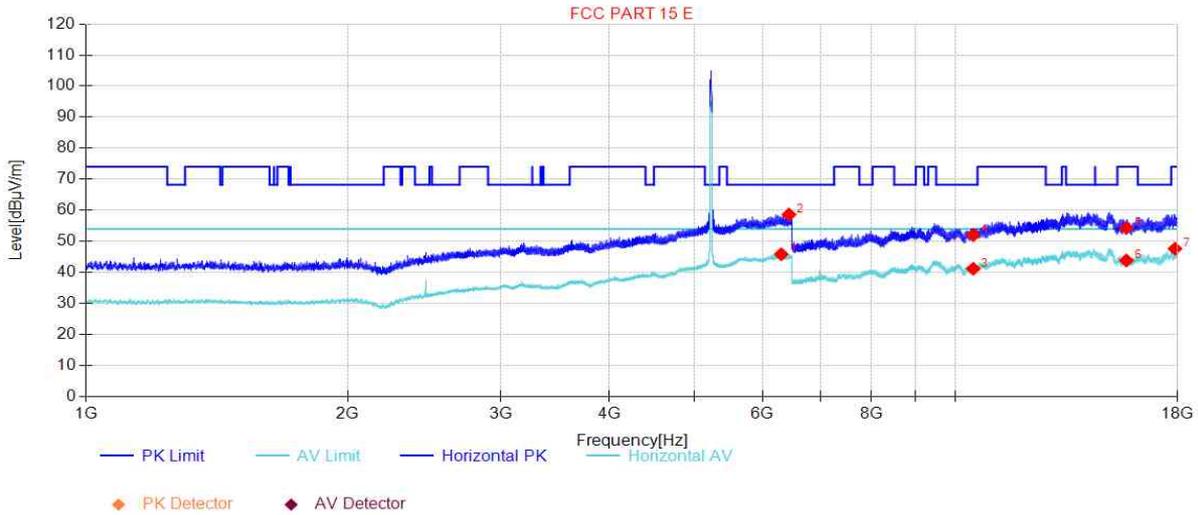






### 4.9.1.5 802.11A\_Channel 48

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6303.453	45.81	18.47	54.00	8.19	150	Horizontal
2	6434.729	58.60	18.35	68.20	9.60	150	Horizontal
3	10480.00	41.13	2.49	54.00	12.87	150	Horizontal
4	10480.00	52.00	2.49	68.20	16.20	150	Horizontal
5	15720.00	54.28	5.92	74.00	19.72	150	Horizontal
6	15720.00	43.80	5.92	54.00	10.20	150	Horizontal
7	17878.55	47.59	8.66	54.00	6.41	150	Horizontal

#### Final Data List

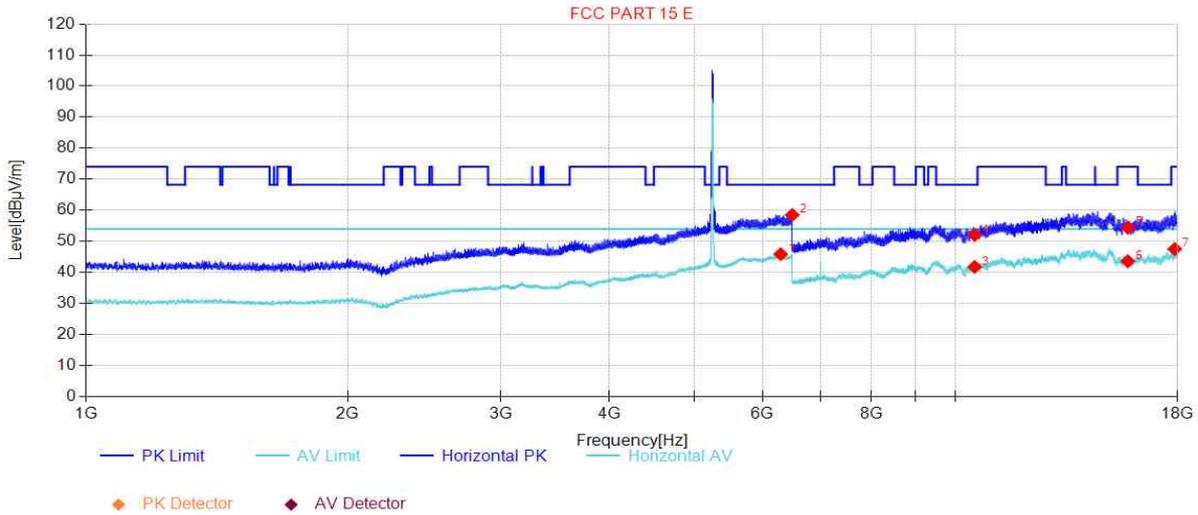


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### 4.9.1.7 802.11A\_Channel 52

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6293.186	45.84	18.45	54.00	8.16	150	Horizontal
2	6489.732	58.49	18.66	68.20	9.71	150	Horizontal
3	10520.00	41.74	2.45	54.00	12.26	150	Horizontal
4	10520.00	52.06	2.45	68.20	16.14	150	Horizontal
5	15780.00	54.38	5.30	74.00	19.62	150	Horizontal
6	15780.00	43.56	5.30	54.00	10.44	150	Horizontal
7	17867.51	47.50	8.56	54.00	6.50	150	Horizontal

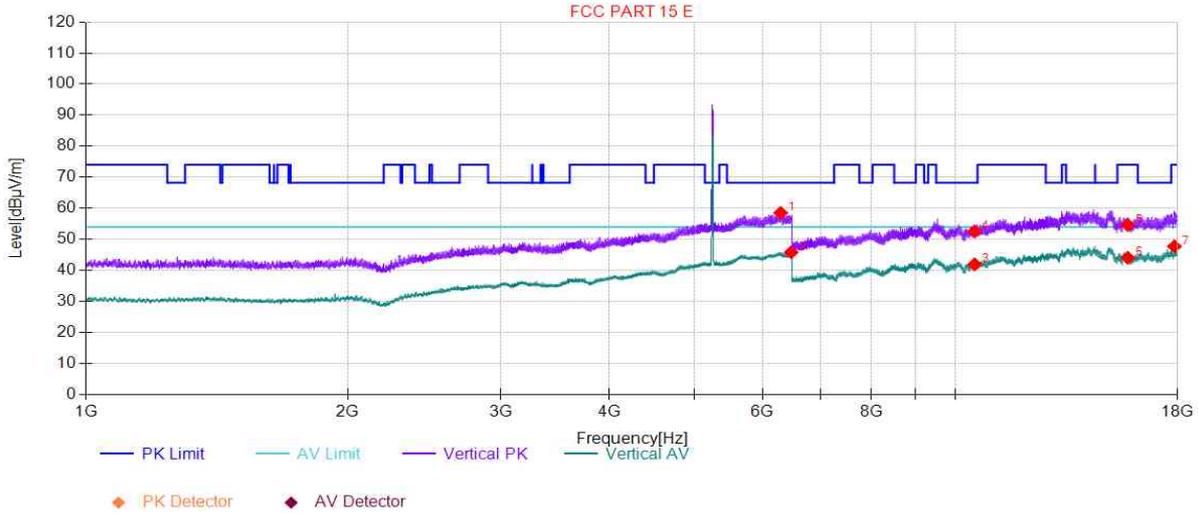
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### 4.9.1.8 802.11A\_Channel 52

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6293.919	58.51	18.46	68.20	9.69	150	Vertical
2	6471.031	45.80	18.55	54.00	8.20	150	Vertical
3	10520.00	41.90	2.45	54.00	12.10	150	Vertical
4	10520.00	52.54	2.45	68.20	15.66	150	Vertical
5	15780.00	54.59	5.30	74.00	19.41	150	Vertical
6	15780.00	44.03	5.30	54.00	9.97	150	Vertical
7	17853.71	47.69	8.45	54.00	6.31	150	Vertical

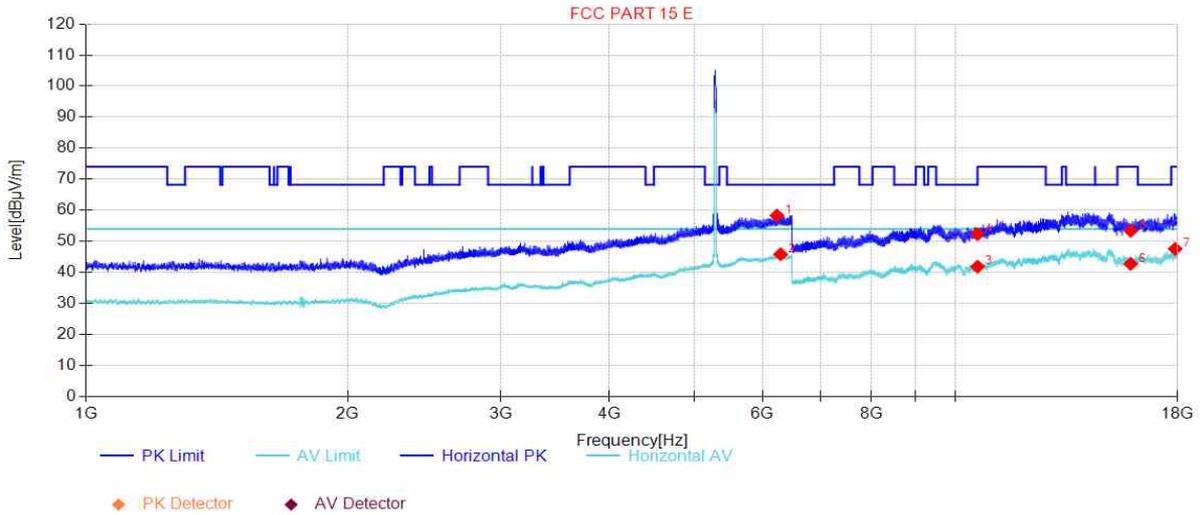
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**4.9.1.9 802.11A\_Channel 60**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6231.215	58.31	18.15	68.20	9.89	150	Horizontal
2	6292.452	45.81	18.45	54.00	8.19	150	Horizontal
3	10600.00	41.82	2.23	54.00	12.18	150	Horizontal
4	10600.00	52.27	2.23	74.00	21.73	150	Horizontal
5	15900.00	53.38	5.29	74.00	20.62	150	Horizontal
6	15900.00	42.72	5.29	54.00	11.28	150	Horizontal
7	17890.05	47.55	8.75	54.00	6.45	150	Horizontal

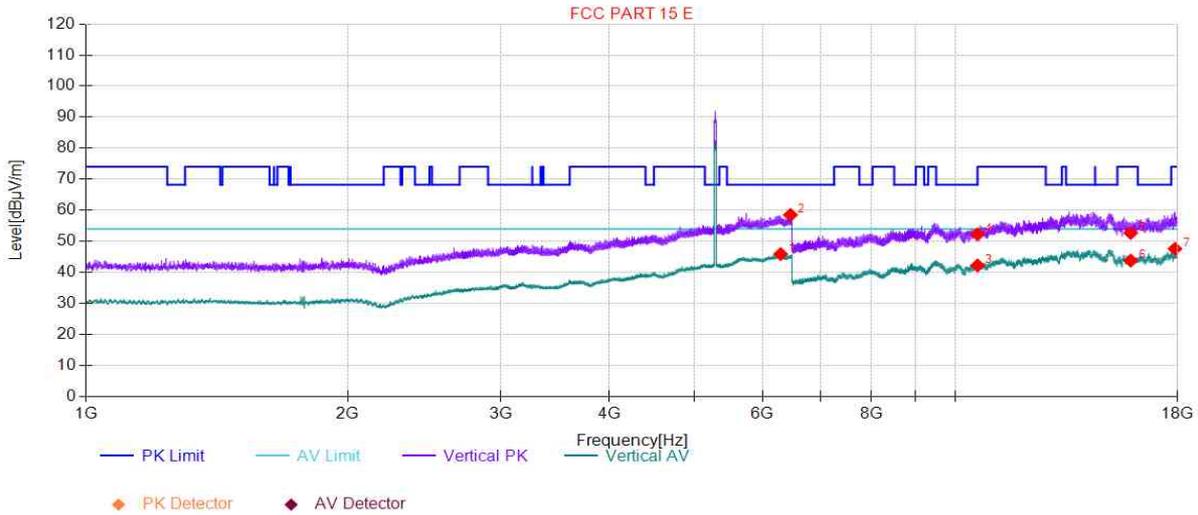
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**4.9.1.10 802.11A\_Channel 60**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6292.452	45.87	18.45	54.00	8.13	150	Vertical
2	6458.197	58.48	18.48	68.20	9.72	150	Vertical
3	10600.00	42.20	2.23	54.00	11.80	150	Vertical
4	10600.00	52.21	2.23	74.00	21.79	150	Vertical
5	15900.00	52.69	5.29	74.00	21.31	150	Vertical
6	15900.00	43.77	5.29	54.00	10.23	150	Vertical
7	17878.09	47.55	8.65	54.00	6.45	150	Vertical

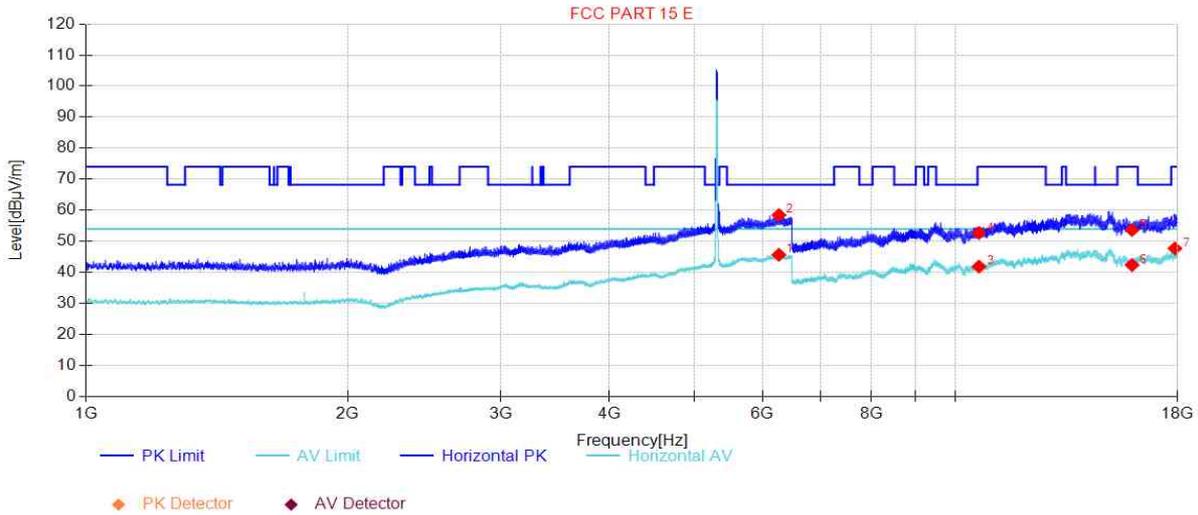
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**4.9.1.11 802.11A\_Channel 64**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6264.217	45.64	18.31	54.00	8.36	150	Horizontal
2	6265.317	58.43	18.32	68.20	9.77	150	Horizontal
3	10640.00	41.83	2.22	54.00	12.17	150	Horizontal
4	10640.00	52.66	2.22	74.00	21.34	150	Horizontal
5	15960.00	53.64	5.01	74.00	20.36	150	Horizontal
6	15960.00	42.33	5.01	54.00	11.67	150	Horizontal
7	17876.71	47.69	8.64	54.00	6.31	150	Horizontal

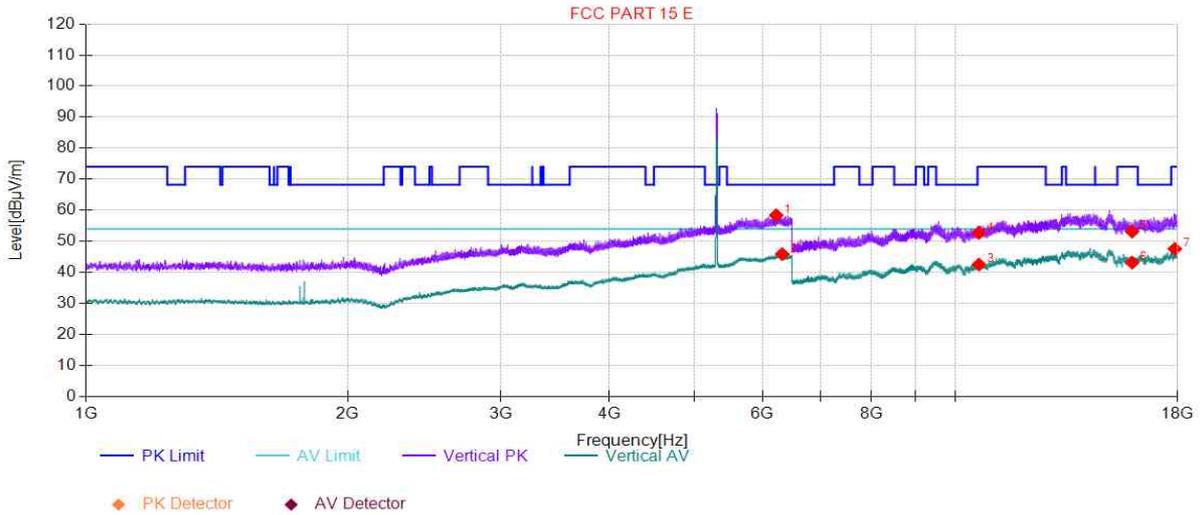
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### 4.9.1.12 802.11A\_Channel 64

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6220.214	58.38	18.10	68.20	9.82	150	Vertical
2	6318.854	45.84	18.42	54.00	8.16	150	Vertical
3	10640.00	42.49	2.22	54.00	11.51	150	Vertical
4	10640.00	52.73	2.22	74.00	21.27	150	Vertical
5	15960.00	53.15	5.01	74.00	20.85	150	Vertical
6	15960.00	43.12	5.01	54.00	10.88	150	Vertical
7	17871.65	47.52	8.60	54.00	6.48	150	Vertical

#### Final Data List



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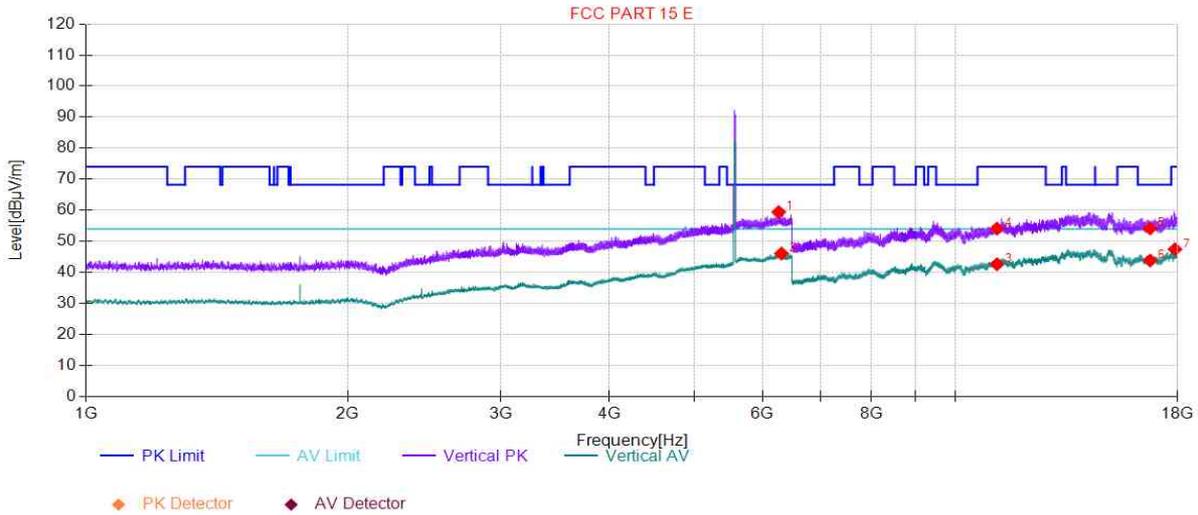






### 4.9.1.16 802.11A\_Channel 116

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6261.284	59.40	18.30	68.20	8.80	150	Vertical
2	6307.120	46.04	18.46	54.00	7.96	150	Vertical
3	11160.00	42.60	2.54	54.00	11.40	150	Vertical
4	11160.00	54.07	2.54	74.00	19.93	150	Vertical
5	16740.00	54.14	5.53	68.20	14.06	150	Vertical
6	16740.00	43.79	5.53	54.00	10.21	150	Vertical
7	17876.71	47.41	8.64	54.00	6.59	150	Vertical

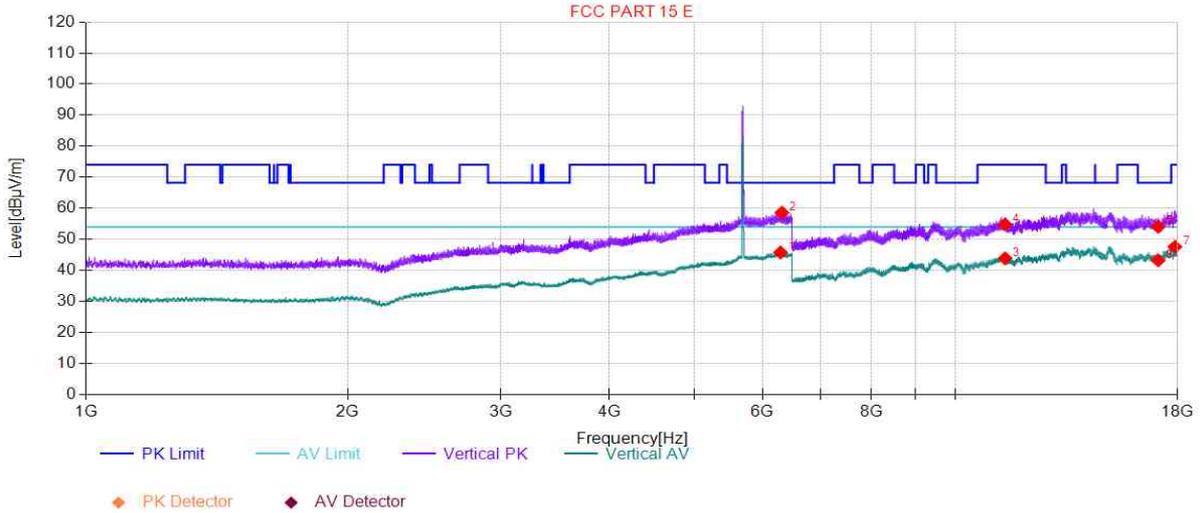
#### Final Data List





**4.9.1.18 802.11A\_Channel 140**

**Test Graph**



**Suspected List**

**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6290.619	45.74	18.44	54.00	8.26	150	Vertical
2	6314.821	58.57	18.44	68.20	9.63	150	Vertical
3	11400.00	43.84	2.54	54.00	10.16	150	Vertical
4	11400.00	54.76	2.54	74.00	19.24	150	Vertical
5	17100.00	54.03	5.72	68.20	14.17	150	Vertical
6	17100.00	43.21	5.72	54.00	10.79	150	Vertical
7	17875.79	47.56	8.63	54.00	6.44	150	Vertical

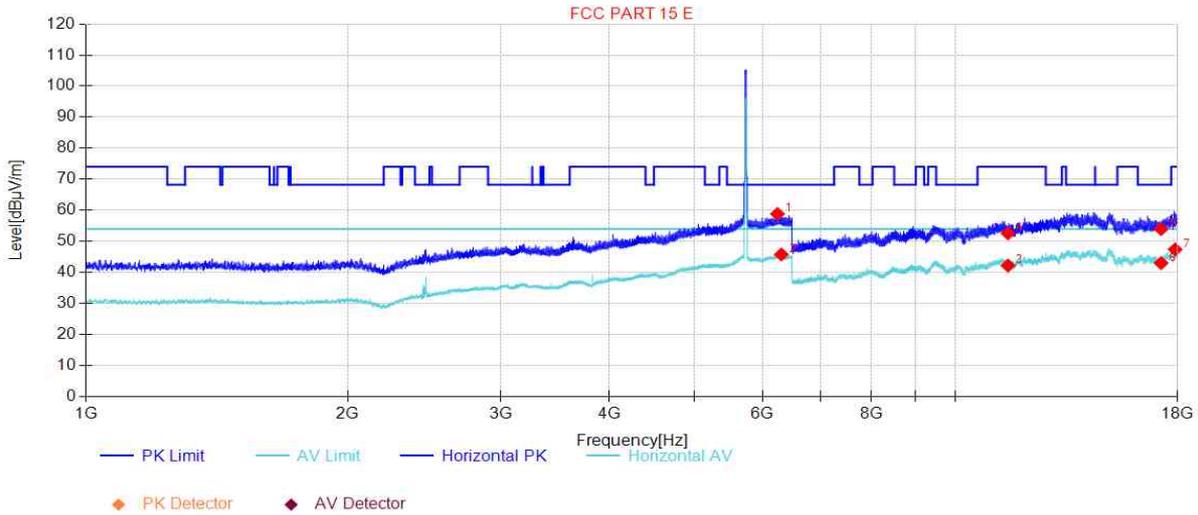
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**4.9.1.19 802.11A\_Channel 149**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6240.016	58.81	18.19	68.20	9.39	150	Horizontal
2	6304.553	45.72	18.47	54.00	8.28	150	Horizontal
3	11490.00	42.17	2.10	54.00	11.83	150	Horizontal
4	11490.00	52.56	2.10	74.00	21.44	150	Horizontal
5	17235.00	53.94	6.10	68.20	14.26	150	Horizontal
6	17235.00	42.96	6.10	54.00	11.04	150	Horizontal
7	17883.15	47.37	8.69	54.00	6.63	150	Horizontal

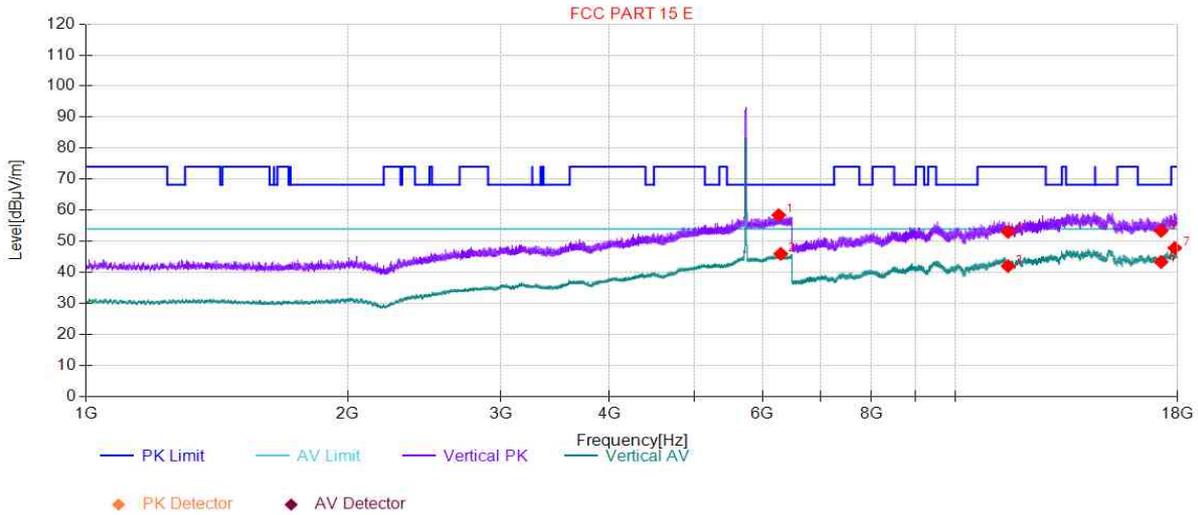
**Final Data List**



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**4.9.1.20 802.11A\_Channel 149**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6261.650	58.43	18.30	68.20	9.77	150	Vertical
2	6294.286	45.95	18.46	54.00	8.05	150	Vertical
3	11490.00	42.00	2.10	54.00	12.00	150	Vertical
4	11490.00	53.01	2.10	74.00	20.99	150	Vertical
5	17235.00	53.37	6.10	68.20	14.83	150	Vertical
6	17235.00	43.33	6.10	54.00	10.67	150	Vertical
7	17870.73	47.82	8.59	54.00	6.18	150	Vertical

**Final Data List**



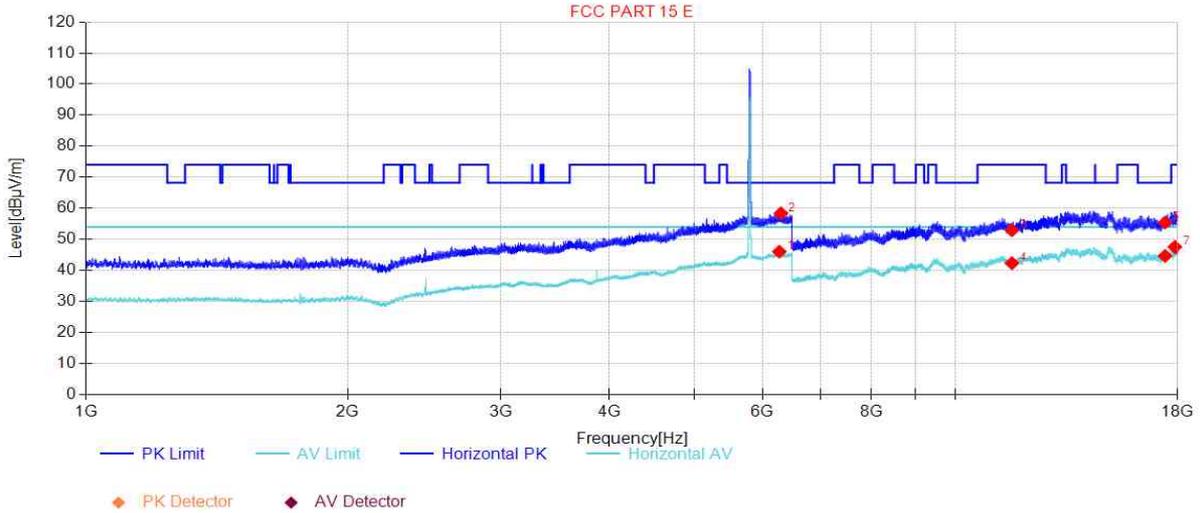
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**4.9.1.23 802.11A\_Channel 161**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6271.184	46.00	18.35	54.00	8.00	150	Horizontal
2	6298.686	58.37	18.48	68.20	9.83	150	Horizontal
3	11610.00	52.91	3.14	74.00	21.09	150	Horizontal
4	11610.00	42.29	3.14	54.00	11.71	150	Horizontal
5	17415.00	55.36	6.97	68.20	12.84	150	Horizontal
6	17415.00	44.61	6.97	54.00	9.39	150	Horizontal
7	17873.95	47.53	8.62	54.00	6.47	150	Horizontal

**Final Data List**



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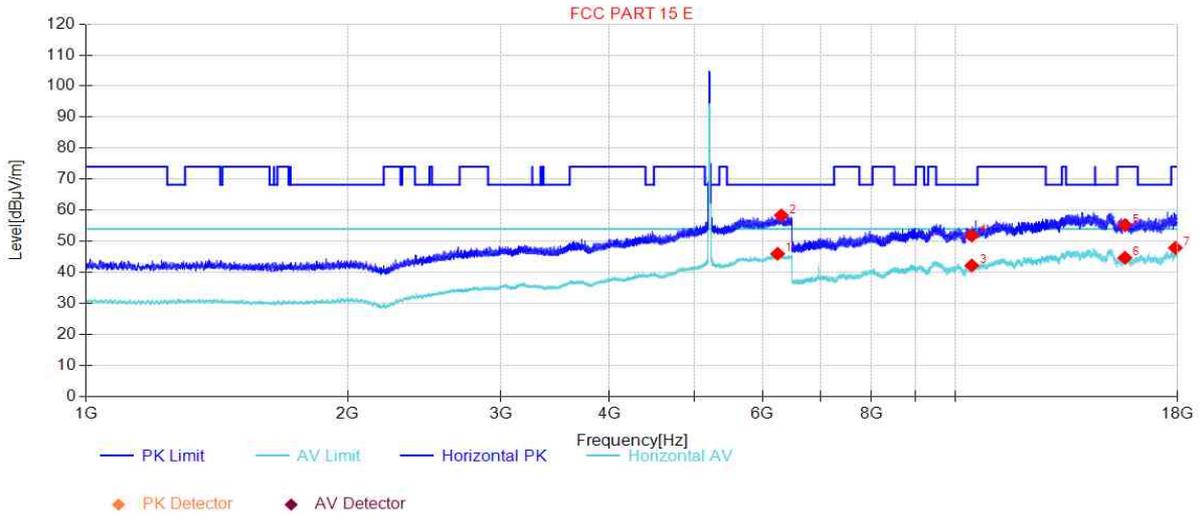






**4.9.1.27 802.11N20\_Channel 44**

**Test Graph**



**Suspected List**

**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6242.216	45.94	18.20	54.00	8.06	150	Horizontal
2	6304.186	58.34	18.47	68.20	9.86	150	Horizontal
3	10440.00	42.19	2.46	54.00	11.81	150	Horizontal
4	10440.00	51.83	2.46	68.20	16.37	150	Horizontal
5	15660.00	55.22	6.12	74.00	18.78	150	Horizontal
6	15660.00	44.66	6.12	54.00	9.34	150	Horizontal
7	17900.63	47.87	8.83	54.00	6.13	150	Horizontal

**Final Data List**

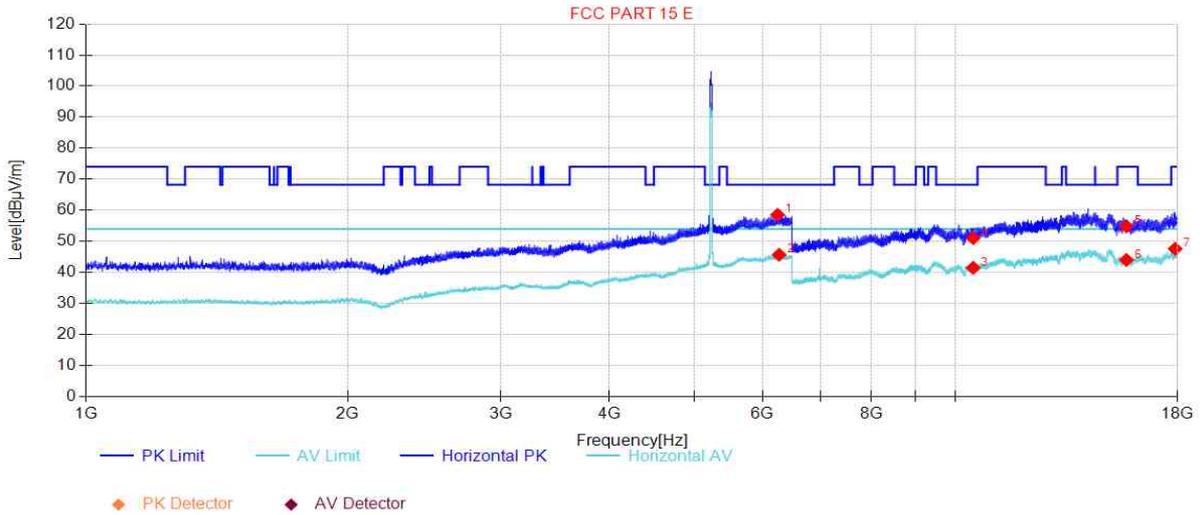


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**4.9.1.29 802.11N20\_Channel 48**

**Test Graph**



**Suspected List**

**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6241.116	58.53	18.20	68.20	9.67	150	Horizontal
2	6267.151	45.65	18.33	54.00	8.35	150	Horizontal
3	10480.00	41.45	2.49	54.00	12.55	150	Horizontal
4	10480.00	51.04	2.49	68.20	17.16	150	Horizontal
5	15720.00	54.80	5.92	74.00	19.20	150	Horizontal
6	15720.00	43.97	5.92	54.00	10.03	150	Horizontal
7	17888.21	47.55	8.74	54.00	6.45	150	Horizontal

**Final Data List**



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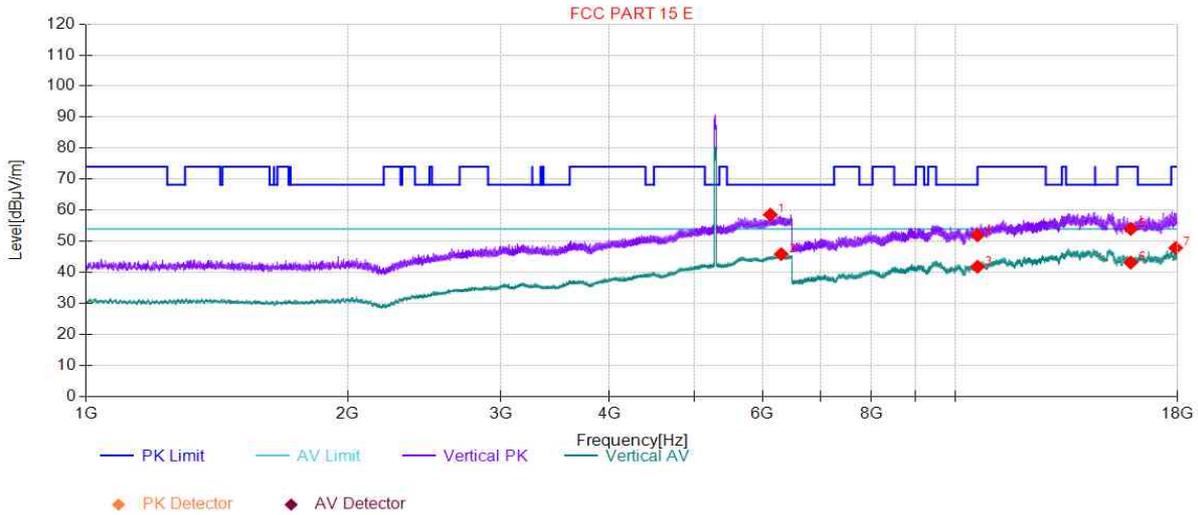






### 4.9.1.34 802.11N20\_Channel 60

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6123.774	58.57	17.83	68.20	9.63	150	Vertical
2	6302.353	45.85	18.48	54.00	8.15	150	Vertical
3	10600.00	41.80	2.23	54.00	12.20	150	Vertical
4	10600.00	51.93	2.23	74.00	22.07	150	Vertical
5	15900.00	53.98	5.29	74.00	20.02	150	Vertical
6	15900.00	43.13	5.29	54.00	10.87	150	Vertical
7	17911.67	47.84	8.74	54.00	6.16	150	Vertical

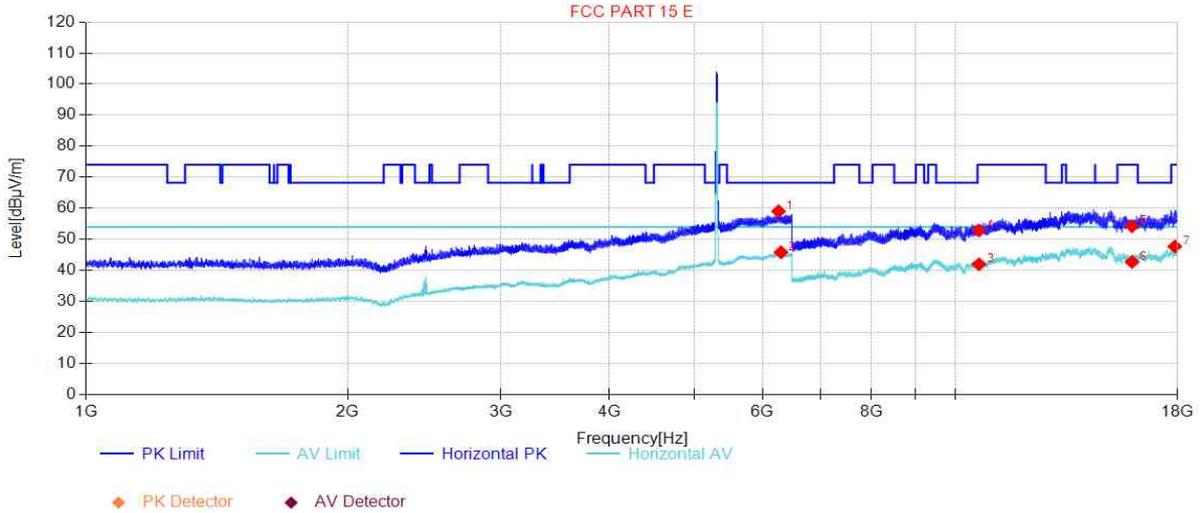
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**4.9.1.35 802.11N20\_Channel 64**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6258.350	59.02	18.28	68.20	9.18	150	Horizontal
2	6298.319	45.80	18.48	54.00	8.20	150	Horizontal
3	10640.00	41.93	2.22	54.00	12.07	150	Horizontal
4	10640.00	52.83	2.22	74.00	21.17	150	Horizontal
5	15960.00	54.22	5.01	74.00	19.78	150	Horizontal
6	15960.00	42.71	5.01	54.00	11.29	150	Horizontal
7	17873.03	47.68	8.61	54.00	6.32	150	Horizontal

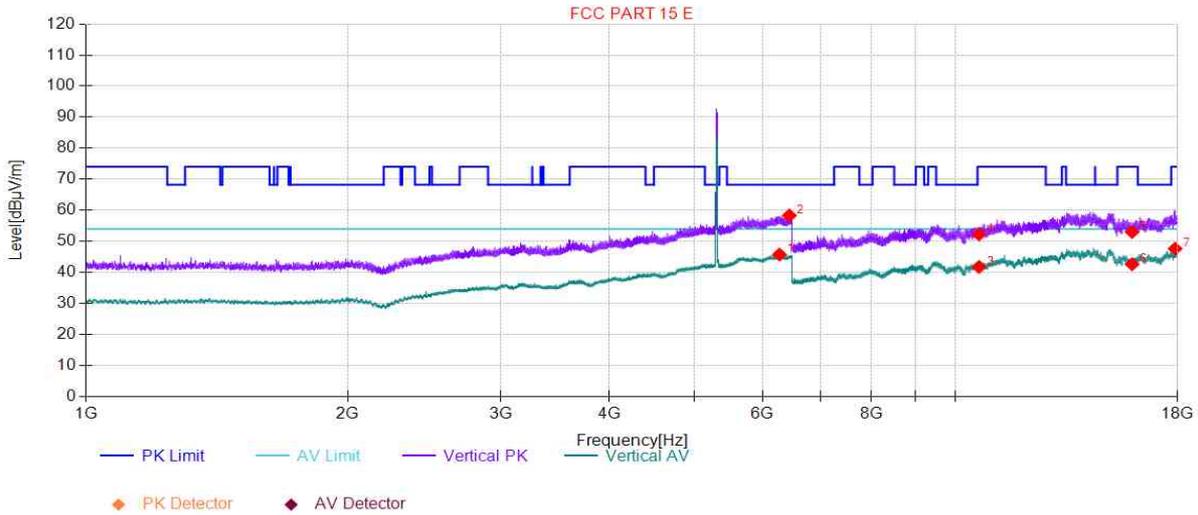
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### 4.9.1.36 802.11N20\_Channel 64

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6273.384	45.69	18.36	54.00	8.31	150	Vertical
2	6439.862	58.30	18.38	68.20	9.90	150	Vertical
3	10640.00	41.73	2.22	54.00	12.27	150	Vertical
4	10640.00	52.21	2.22	74.00	21.79	150	Vertical
5	15960.00	53.00	5.01	74.00	21.00	150	Vertical
6	15960.00	42.59	5.01	54.00	11.41	150	Vertical
7	17887.29	47.61	8.73	54.00	6.39	150	Vertical

#### Final Data List



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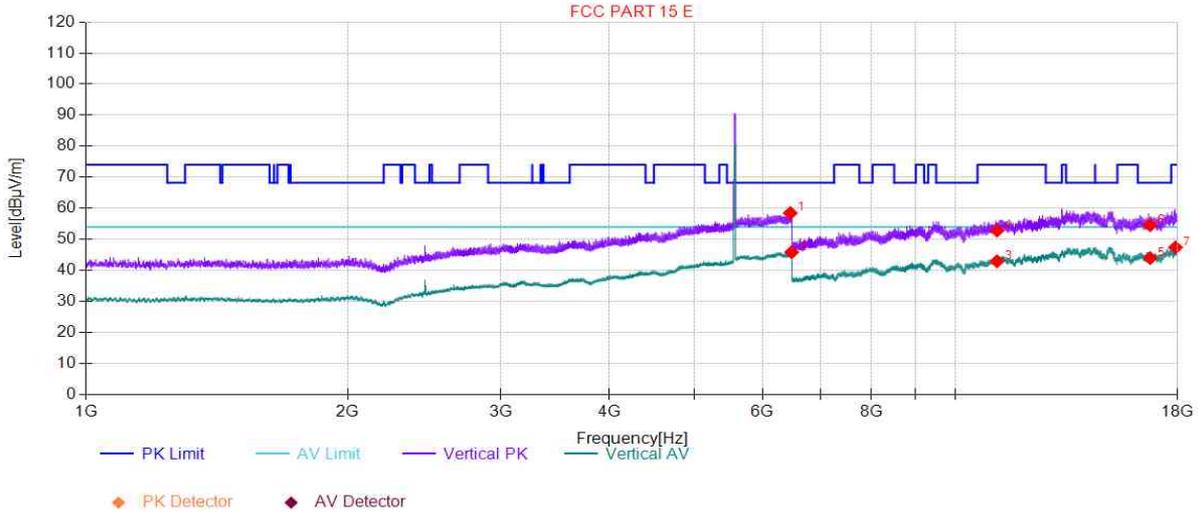






**4.9.1.40 802.11N20\_Channel 116**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6455.997	58.45	18.47	68.20	9.75	150	Vertical
2	6479.465	45.82	18.60	54.00	8.18	150	Vertical
3	11160.00	42.90	2.54	54.00	11.10	150	Vertical
4	11160.00	52.81	2.54	74.00	21.19	150	Vertical
5	16740.00	43.93	5.53	54.00	10.07	150	Vertical
6	16740.00	54.53	5.53	68.20	13.67	150	Vertical
7	17903.85	47.38	8.80	54.00	6.62	150	Vertical

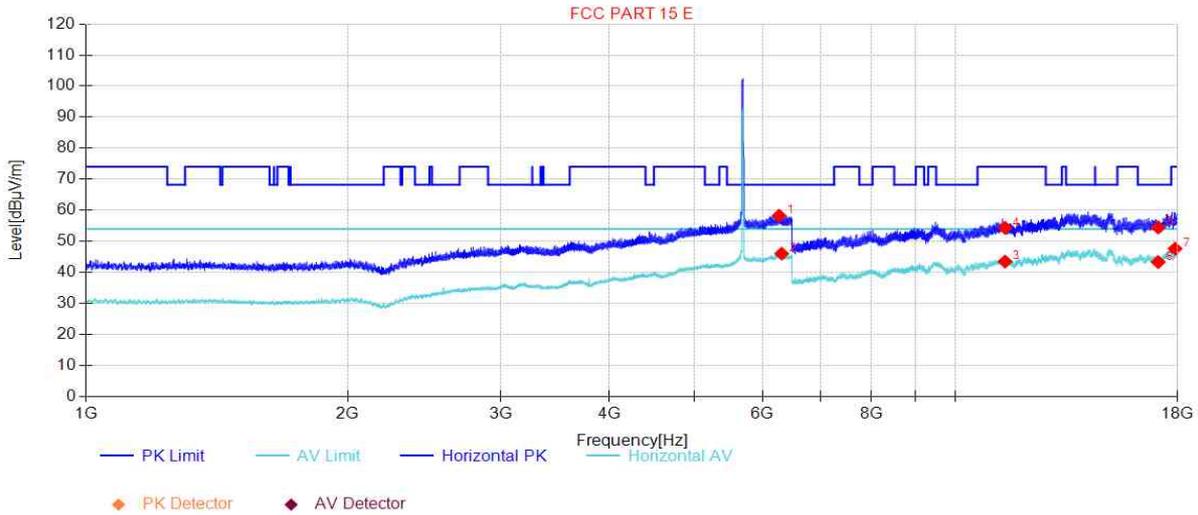
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**4.9.1.41 802.11N20\_Channel 140**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6267.151	58.24	18.33	68.20	9.96	150	Horizontal
2	6309.687	46.02	18.45	54.00	7.98	150	Horizontal
3	11400.00	43.45	2.54	54.00	10.55	150	Horizontal
4	11400.00	54.33	2.54	74.00	19.67	150	Horizontal
5	17100.00	54.43	5.72	68.20	13.77	150	Horizontal
6	17100.00	43.29	5.72	54.00	10.71	150	Horizontal
7	17882.23	47.59	8.69	54.00	6.41	150	Horizontal

**Final Data List**

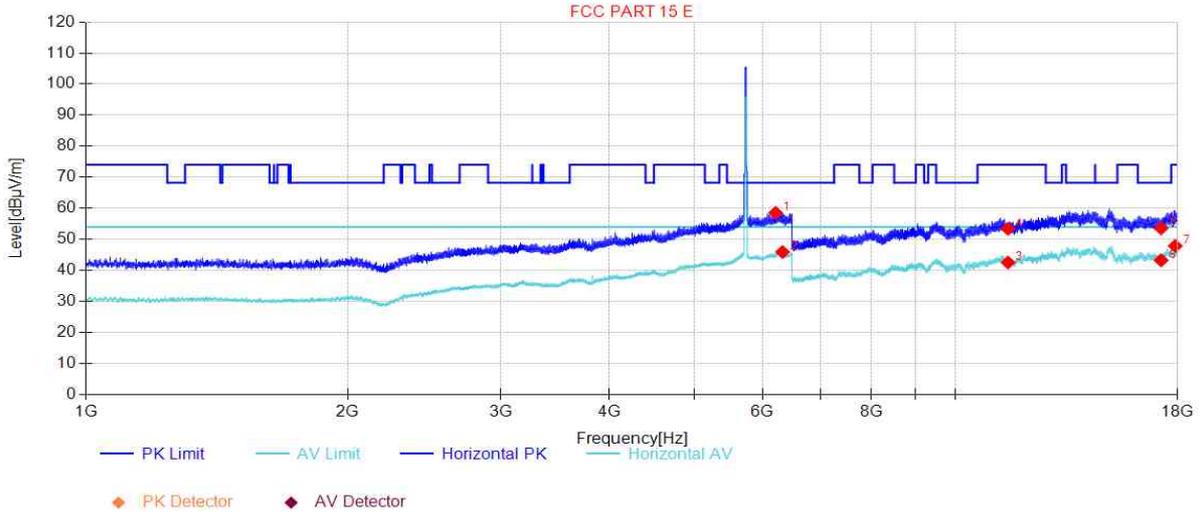


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**4.9.1.43 802.11N20\_Channel 149**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6210.314	58.52	18.05	68.20	9.68	150	Horizontal
2	6325.088	45.89	18.40	54.00	8.11	150	Horizontal
3	11490.00	42.50	2.10	54.00	11.50	150	Horizontal
4	11490.00	53.35	2.10	74.00	20.65	150	Horizontal
5	17235.00	53.55	6.10	68.20	14.65	150	Horizontal
6	17235.00	43.23	6.10	54.00	10.77	150	Horizontal
7	17891.89	47.83	8.77	54.00	6.17	150	Horizontal

**Final Data List**



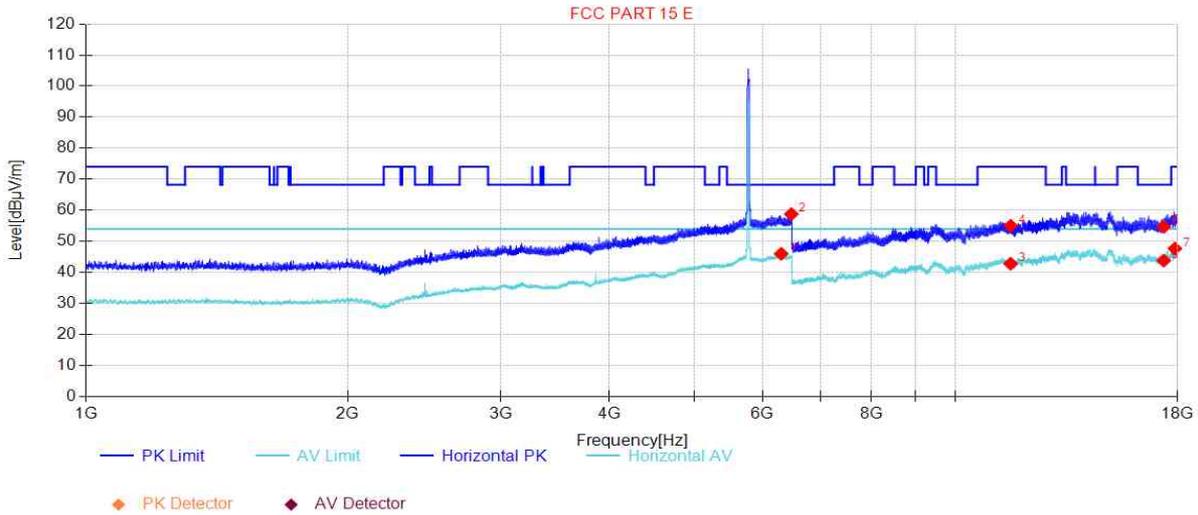
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**4.9.1.45 802.11N20\_Channel 157**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6302.353	45.96	18.48	54.00	8.04	150	Horizontal
2	6472.864	58.73	18.56	68.20	9.47	150	Horizontal
3	11570.00	42.78	2.92	54.00	11.22	150	Horizontal
4	11570.00	54.97	2.92	74.00	19.03	150	Horizontal
5	17355.00	54.66	6.75	68.20	13.54	150	Horizontal
6	17355.00	43.76	6.75	54.00	10.24	150	Horizontal
7	17875.79	47.66	8.63	54.00	6.34	150	Horizontal

**Final Data List**

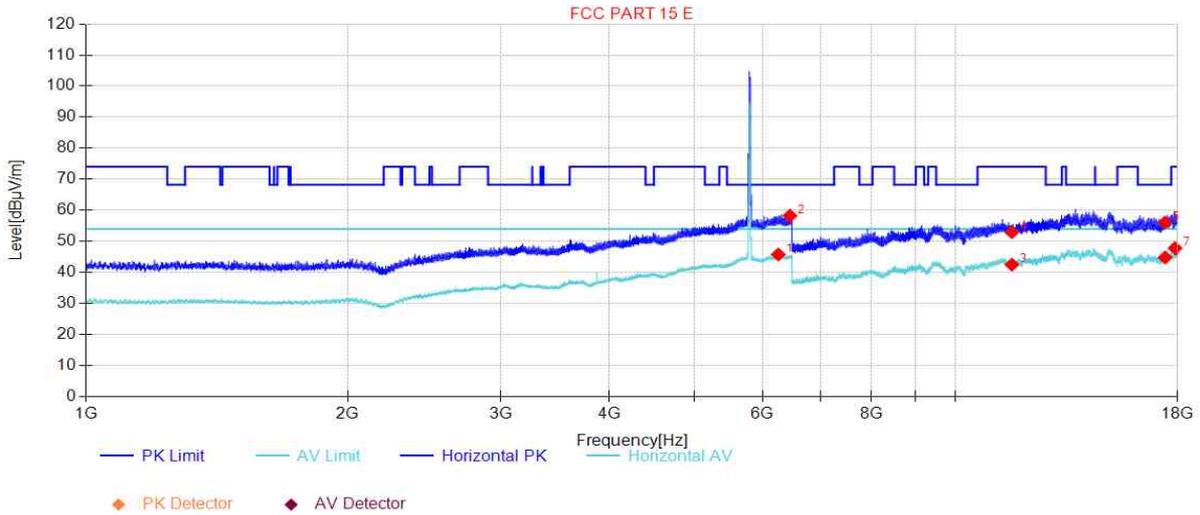


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**4.9.1.47 802.11N20\_Channel 161**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6255.417	45.72	18.27	54.00	8.28	150	Horizontal
2	6450.130	58.22	18.44	68.20	9.98	150	Horizontal
3	11610.00	42.46	3.14	54.00	11.54	150	Horizontal
4	11610.00	52.94	3.14	74.00	21.06	150	Horizontal
5	17415.00	56.04	6.97	68.20	12.16	150	Horizontal
6	17415.00	44.73	6.97	54.00	9.27	150	Horizontal
7	17882.69	47.78	8.69	54.00	6.22	150	Horizontal

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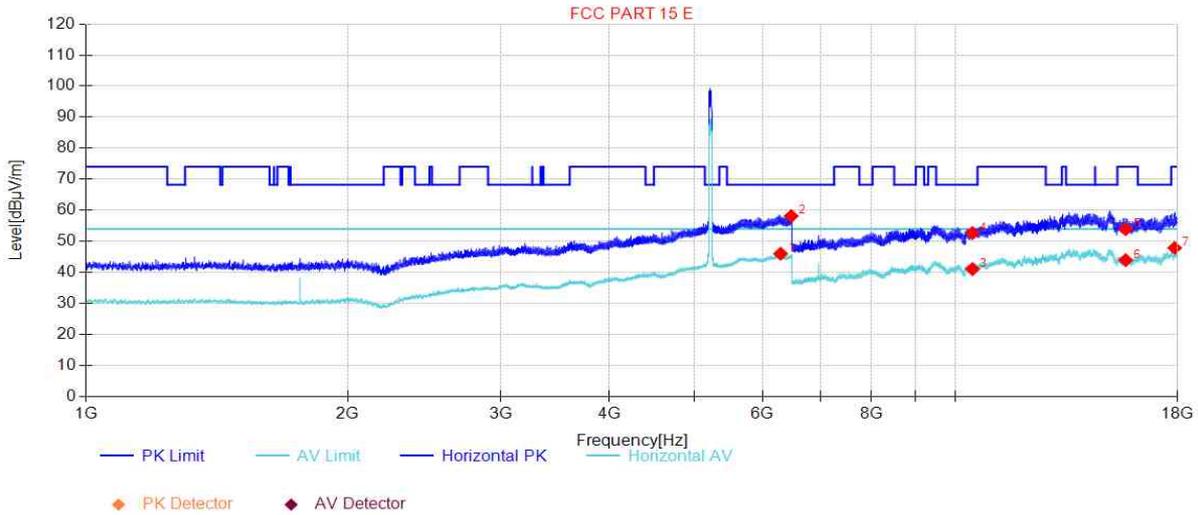






**4.9.1.51 802.11N40\_Channel 46**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6292.452	45.98	18.45	54.00	8.02	150	Horizontal
2	6471.764	58.12	18.56	68.20	10.08	150	Horizontal
3	10460.00	41.04	2.47	54.00	12.96	150	Horizontal
4	10460.00	52.63	2.47	68.20	15.57	150	Horizontal
5	15690.00	53.90	6.13	74.00	20.10	150	Horizontal
6	15690.00	43.91	6.13	54.00	10.09	150	Horizontal
7	17863.37	47.86	8.53	54.00	6.14	150	Horizontal

**Final Data List**



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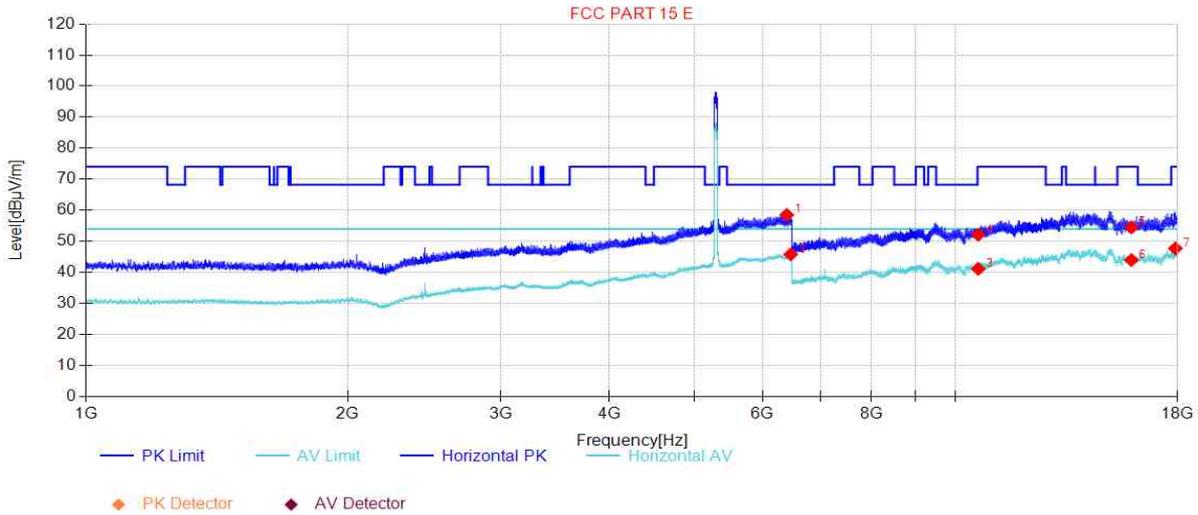






**4.9.1.55 802.11N40\_Channel 62**

**Test Graph**



**Suspected List**

**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6395.126	58.47	18.18	68.20	9.73	150	Horizontal
2	6464.064	45.79	18.52	54.00	8.21	150	Horizontal
3	10620.00	41.09	2.23	54.00	12.91	150	Horizontal
4	10620.00	52.10	2.23	74.00	21.90	150	Horizontal
5	15930.00	54.50	5.15	74.00	19.50	150	Horizontal
6	15930.00	43.94	5.15	54.00	10.06	150	Horizontal
7	17897.87	47.69	8.82	54.00	6.31	150	Horizontal

**Final Data List**



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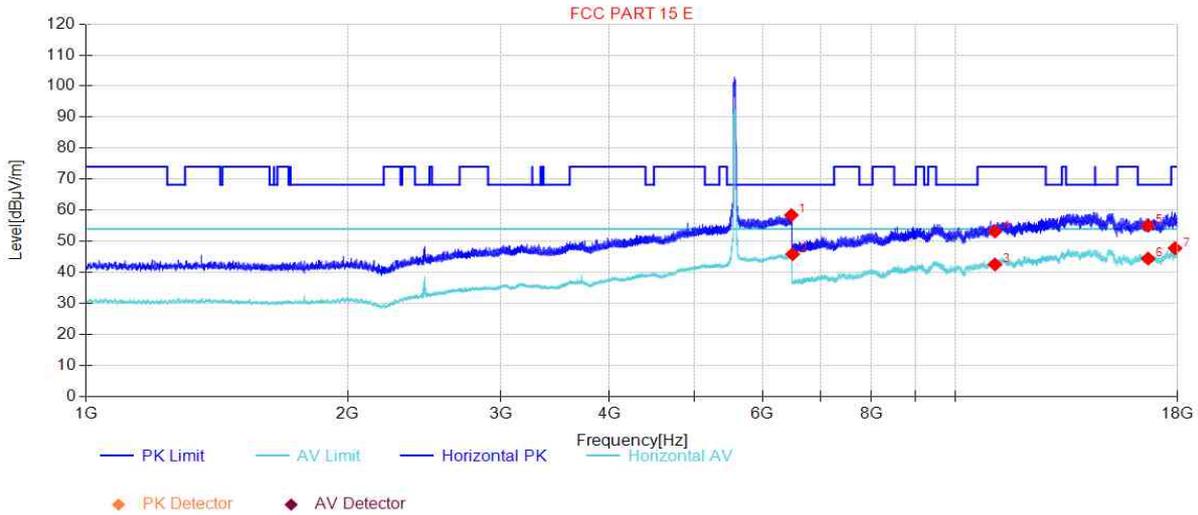






**4.9.1.59 802.11N40\_Channel 110**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6473.598	58.41	18.57	68.20	9.79	150	Horizontal
2	6495.599	45.85	18.69	54.00	8.15	150	Horizontal
3	11100.00	42.51	2.49	54.00	11.49	150	Horizontal
4	11100.00	53.16	2.49	74.00	20.84	150	Horizontal
5	16650.00	55.00	5.74	68.20	13.20	150	Horizontal
6	16650.00	44.43	5.74	54.00	9.57	150	Horizontal
7	17881.77	47.75	8.68	54.00	6.25	150	Horizontal

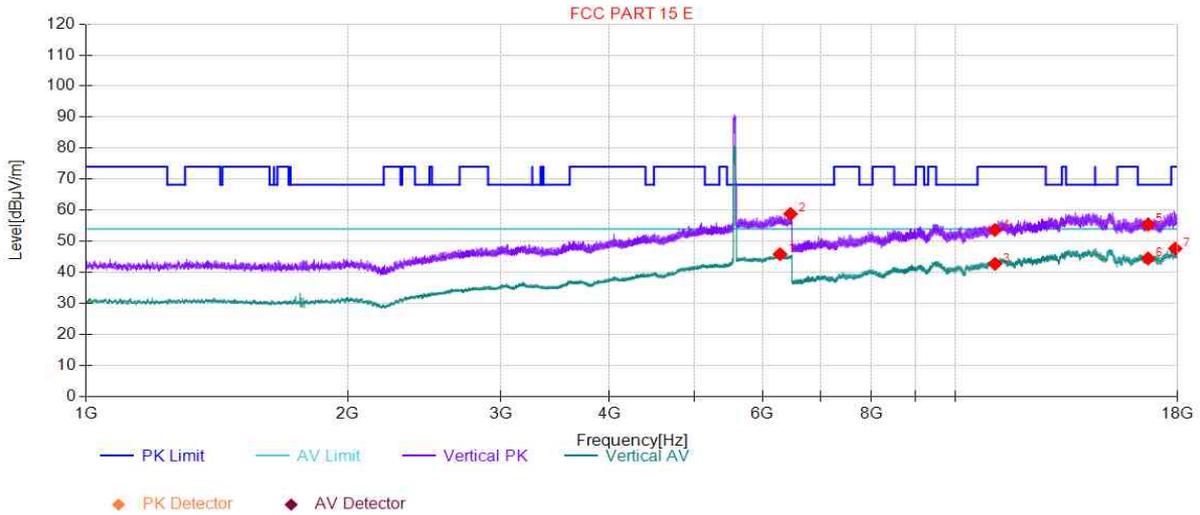
**Final Data List**



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**4.9.1.60 802.11N40\_Channel 110**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6283.285	45.83	18.40	54.00	8.17	150	Vertical
2	6461.497	58.80	18.50	68.20	9.40	150	Vertical
3	11100.00	42.73	2.49	54.00	11.27	150	Vertical
4	11100.00	53.64	2.49	74.00	20.36	150	Vertical
5	16650.00	55.40	5.74	68.20	12.80	150	Vertical
6	16650.00	44.47	5.74	54.00	9.53	150	Vertical
7	17891.43	47.64	8.76	54.00	6.36	150	Vertical

**Final Data List**



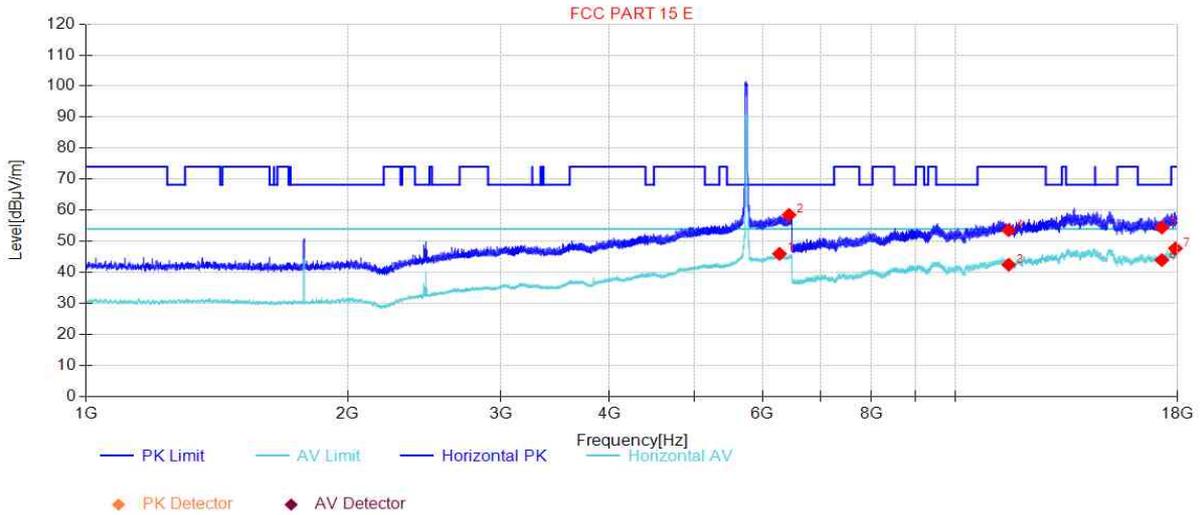
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**4.9.1.63 802.11N40\_Channel 151**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6274.485	45.95	18.36	54.00	8.05	150	Horizontal
2	6433.628	58.49	18.35	68.20	9.71	150	Horizontal
3	11510.00	42.42	2.17	54.00	11.58	150	Horizontal
4	11510.00	53.55	2.17	74.00	20.45	150	Horizontal
5	17265.00	54.42	6.33	68.20	13.78	150	Horizontal
6	17265.00	43.92	6.33	54.00	10.08	150	Horizontal
7	17899.71	47.71	8.83	54.00	6.29	150	Horizontal

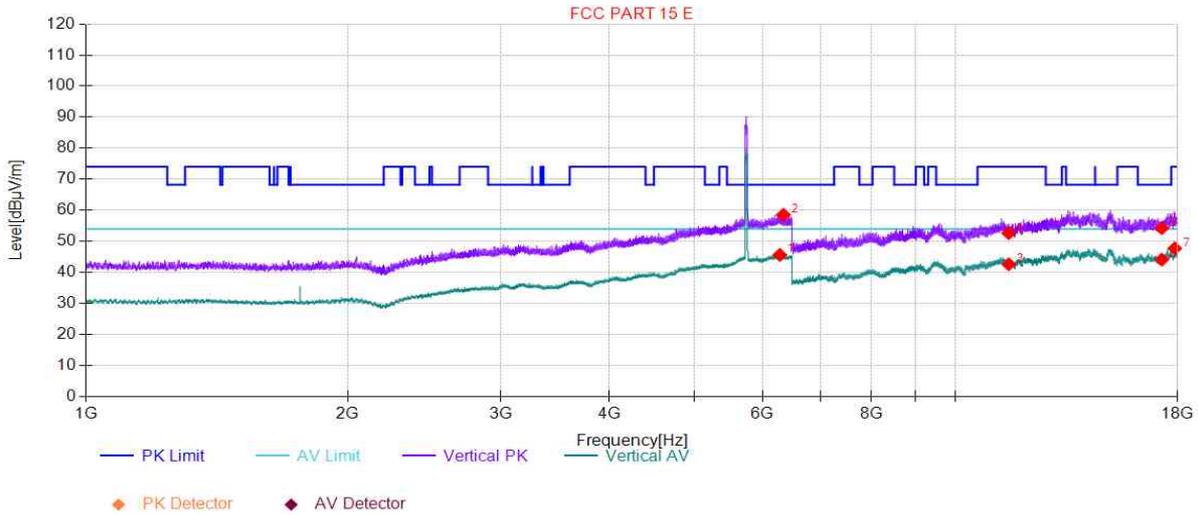
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**4.9.1.64 802.11N40\_Channel 151**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6279.252	45.60	18.38	54.00	8.40	150	Vertical
2	6337.555	58.52	18.36	68.20	9.68	150	Vertical
3	11510.00	42.59	2.17	54.00	11.41	150	Vertical
4	11510.00	52.63	2.17	74.00	21.37	150	Vertical
5	17265.00	54.22	6.33	68.20	13.98	150	Vertical
6	17265.00	44.08	6.33	54.00	9.92	150	Vertical
7	17872.11	47.71	8.60	54.00	6.29	150	Vertical

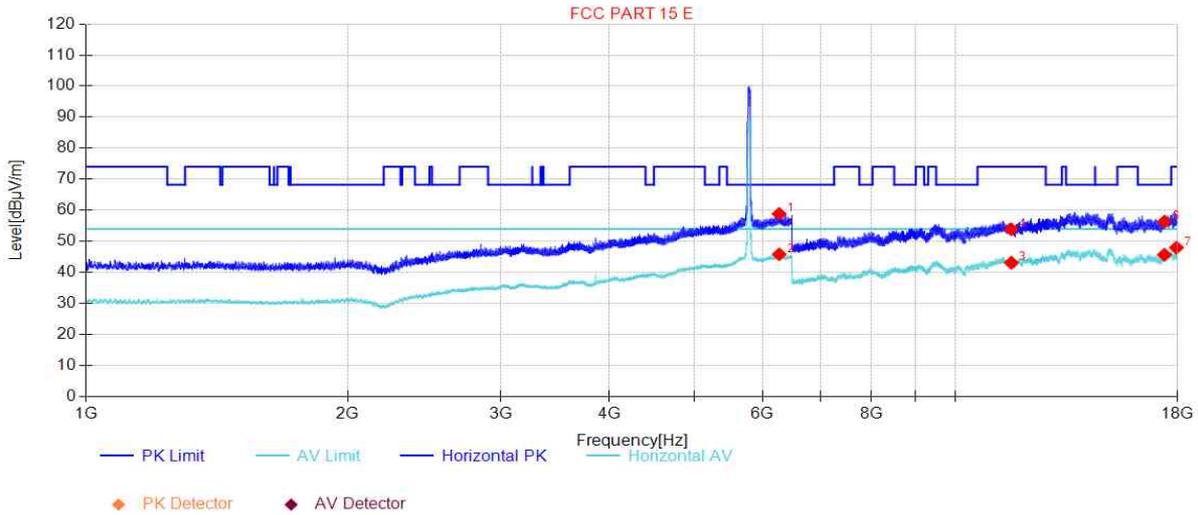
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### 4.9.1.65 802.11N40\_Channel 159

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6267.517	58.82	18.33	68.20	9.38	150	Horizontal
2	6268.984	45.80	18.33	54.00	8.20	150	Horizontal
3	11590.00	43.08	3.16	54.00	10.92	150	Horizontal
4	11590.00	53.86	3.16	74.00	20.14	150	Horizontal
5	17385.00	45.64	6.82	54.00	8.36	150	Horizontal
6	17385.00	56.34	6.82	68.20	11.86	150	Horizontal
7	17950.31	47.94	8.43	54.00	6.06	150	Horizontal

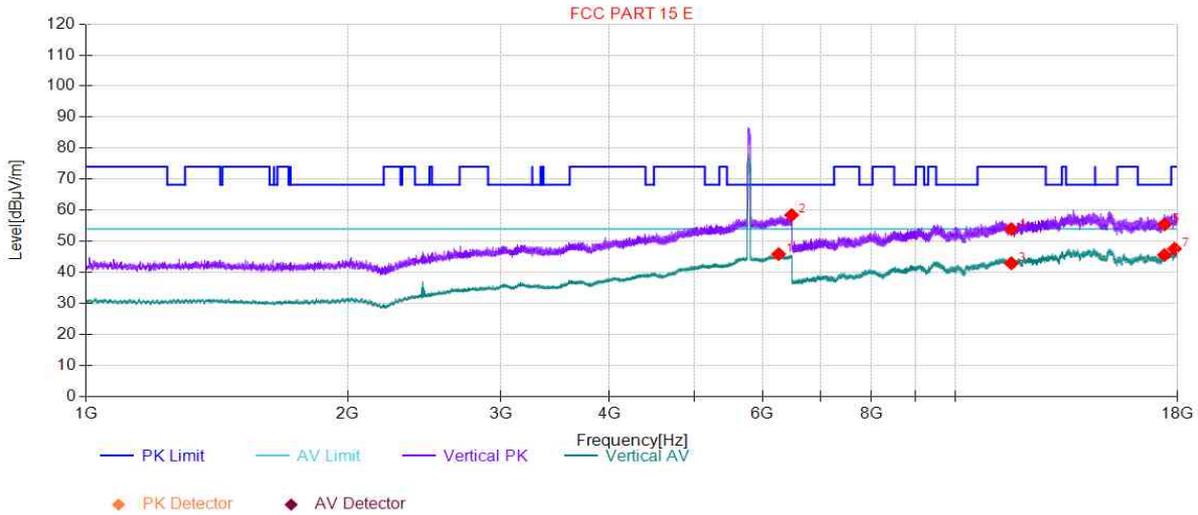
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**4.9.1.66 802.11N40\_Channel 159**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6259.817	45.86	18.29	54.00	8.14	150	Vertical
2	6477.631	58.43	18.59	68.20	9.77	150	Vertical
3	11590.00	42.91	3.16	54.00	11.09	150	Vertical
4	11590.00	53.91	3.16	74.00	20.09	150	Vertical
5	17385.00	55.41	6.82	68.20	12.79	150	Vertical
6	17385.00	45.57	6.82	54.00	8.43	150	Vertical
7	17858.77	47.56	8.49	54.00	6.44	150	Vertical

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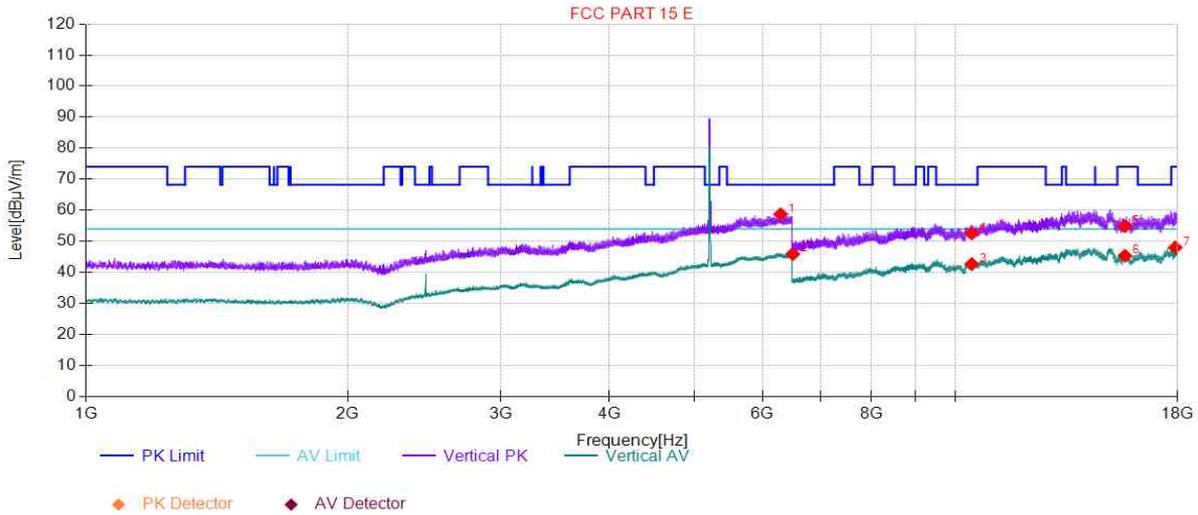






**4.9.1.70 802.11AC20\_Channel 44**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6292.452	58.71	18.45	68.20	9.49	150	Vertical
2	6499.266	45.88	18.71	54.00	8.12	150	Vertical
3	10440.00	42.65	2.46	54.00	11.35	150	Vertical
4	10440.00	52.56	2.46	68.20	15.64	150	Vertical
5	15660.00	54.87	6.12	74.00	19.13	150	Vertical
6	15660.00	45.34	6.12	54.00	8.66	150	Vertical
7	17890.05	47.98	8.75	54.00	6.02	150	Vertical

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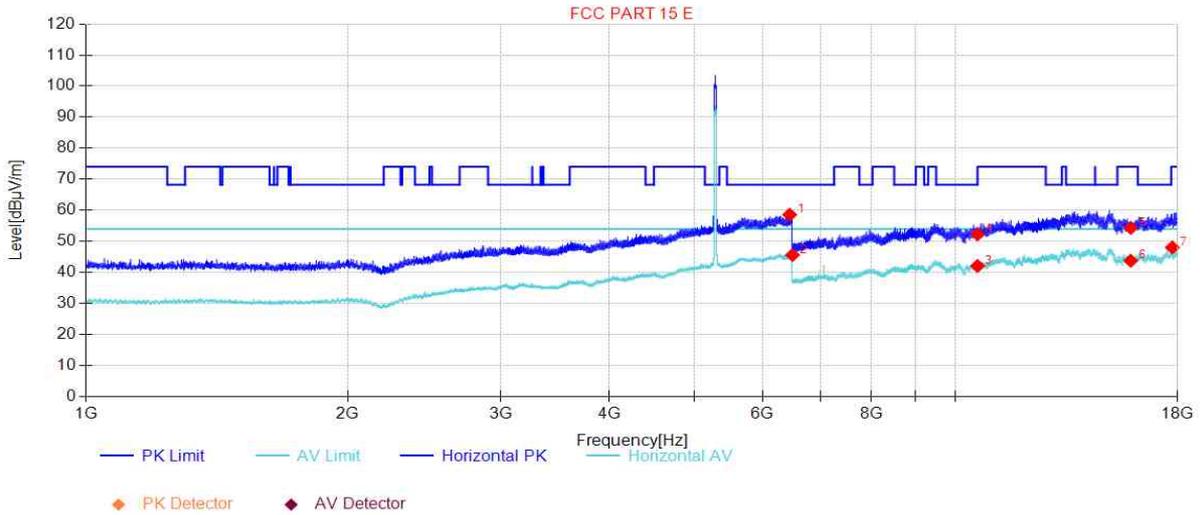






**4.9.1.75 802.11AC20\_Channel 60**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6444.996	58.56	18.41	68.20	9.64	150	Horizontal
2	6493.399	45.56	18.68	54.00	8.44	150	Horizontal
3	10600.00	42.03	2.23	54.00	11.97	150	Horizontal
4	10600.00	52.19	2.23	74.00	21.81	150	Horizontal
5	15900.00	54.32	5.29	74.00	19.68	150	Horizontal
6	15900.00	43.74	5.29	54.00	10.26	150	Horizontal
7	17751.13	47.98	7.79	54.00	6.02	150	Horizontal

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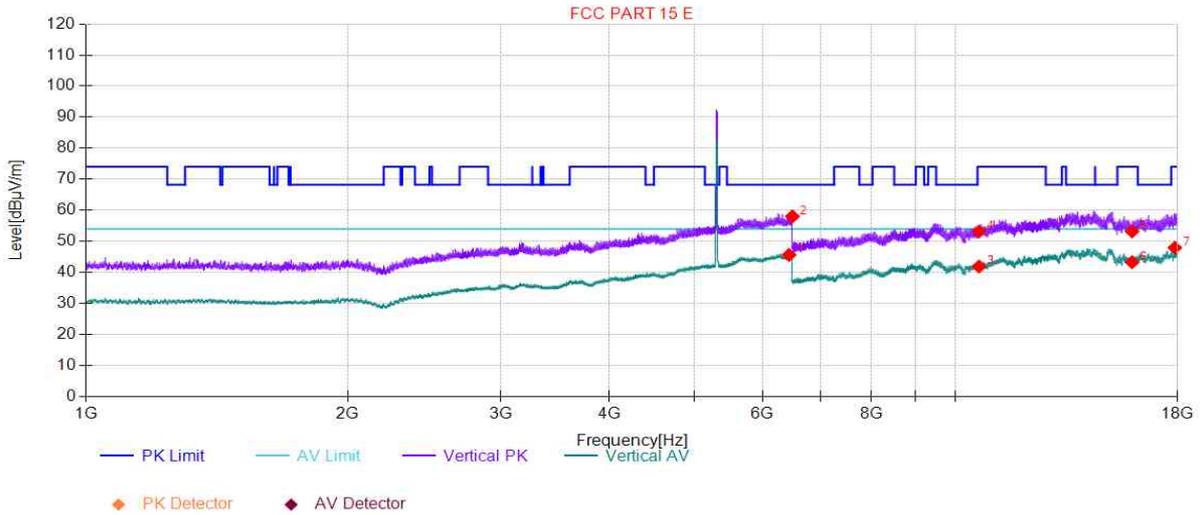
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**4.9.1.78 802.11AC20\_Channel 64**

**Test Graph**



**Suspected List**

**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6433.628	45.60	18.35	54.00	8.40	150	Vertical
2	6492.666	58.01	18.67	68.20	10.19	150	Vertical
3	10640.00	41.84	2.22	54.00	12.16	150	Vertical
4	10640.00	53.15	2.22	74.00	20.85	150	Vertical
5	15960.00	53.16	5.01	74.00	20.84	150	Vertical
6	15960.00	43.25	5.01	54.00	10.75	150	Vertical
7	17872.57	47.91	8.61	54.00	6.09	150	Vertical

**Final Data List**



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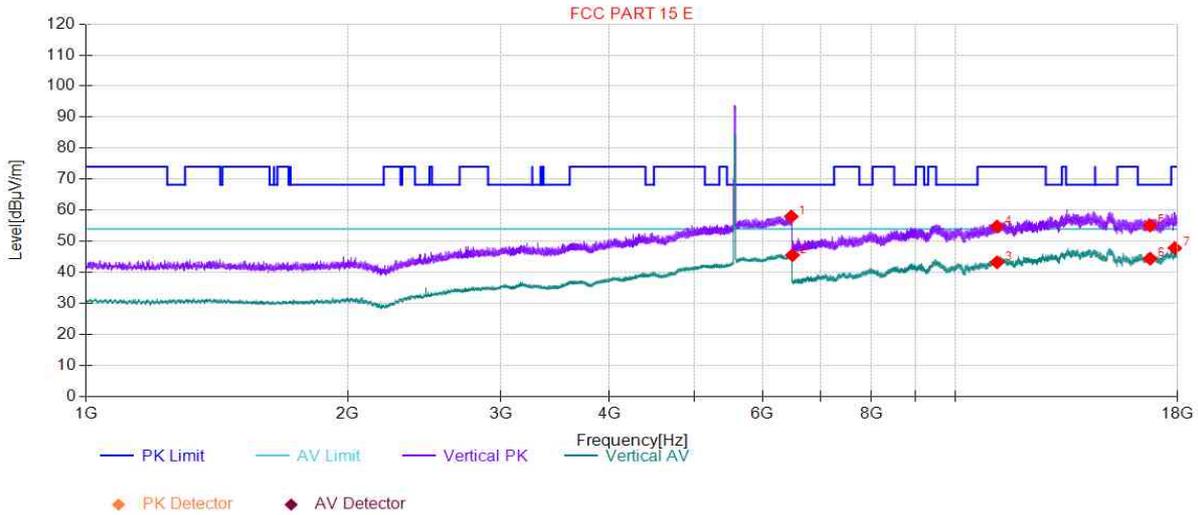






**4.9.1.82 802.11AC20\_Channel 116**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6473.231	57.98	18.57	68.20	10.22	150	Vertical
2	6493.766	45.55	18.68	54.00	8.45	150	Vertical
3	11160.00	43.21	2.54	54.00	10.79	150	Vertical
4	11160.00	54.75	2.54	74.00	19.25	150	Vertical
5	16740.00	55.06	5.53	68.20	13.14	150	Vertical
6	16740.00	44.40	5.53	54.00	9.60	150	Vertical
7	17871.65	47.80	8.60	54.00	6.20	150	Vertical

**Final Data List**

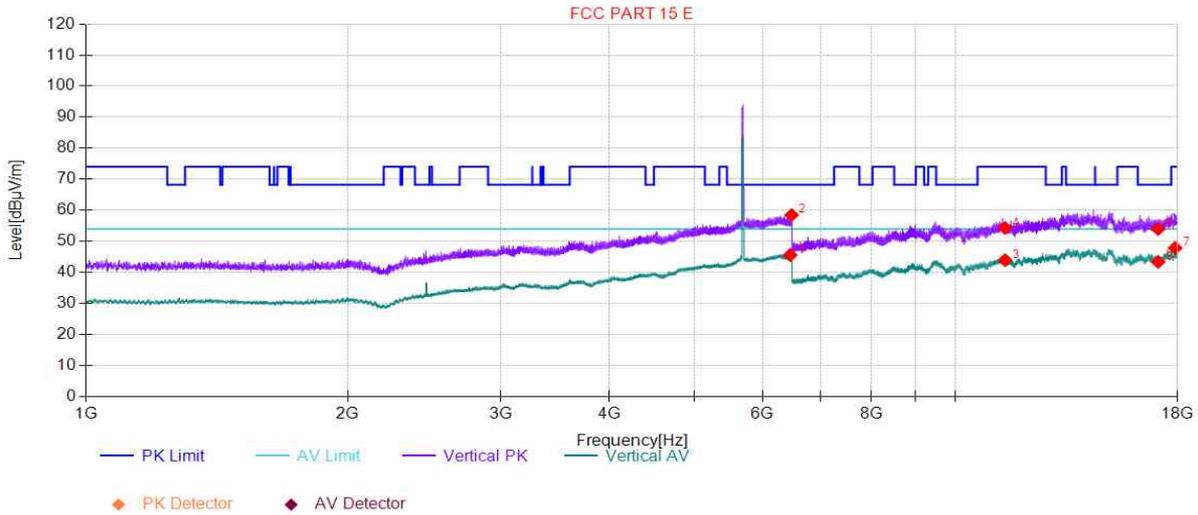


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**4.9.1.84 802.11AC20\_Channel 140**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6452.696	45.55	18.45	54.00	8.45	150	Vertical
2	6477.631	58.45	18.59	68.20	9.75	150	Vertical
3	11400.00	43.91	2.54	54.00	10.09	150	Vertical
4	11400.00	54.30	2.54	74.00	19.70	150	Vertical
5	17100.00	53.96	5.72	68.20	14.24	150	Vertical
6	17100.00	43.35	5.72	54.00	10.65	150	Vertical
7	17889.13	47.84	8.74	54.00	6.16	150	Vertical

**Final Data List**



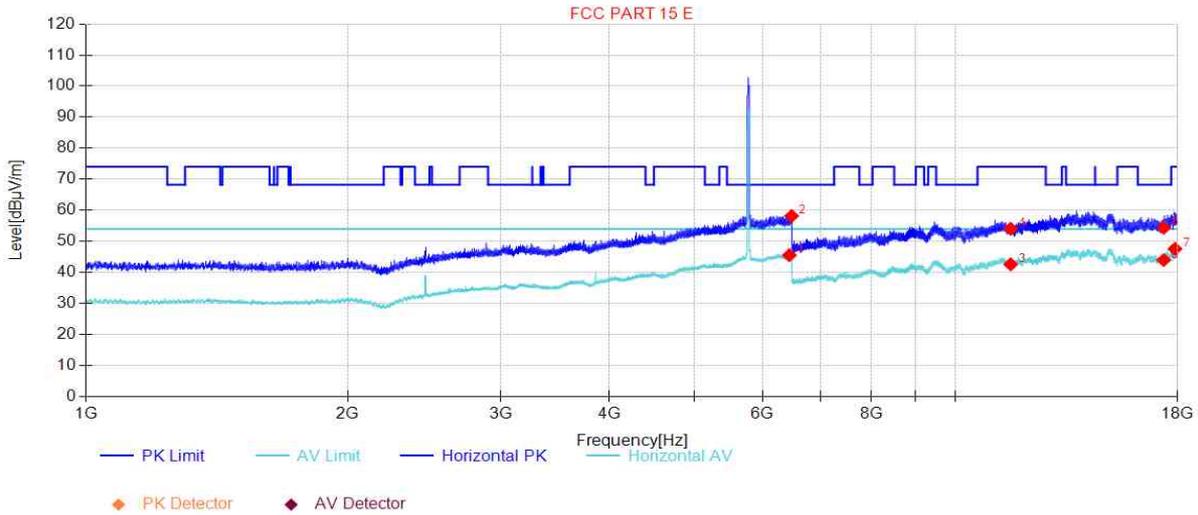
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### 4.9.1.87 802.11AC20\_Channel 157

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6440.962	45.52	18.39	54.00	8.48	150	Horizontal
2	6477.998	58.14	18.59	68.20	10.06	150	Horizontal
3	11570.00	42.56	2.92	54.00	11.44	150	Horizontal
4	11570.00	54.02	2.92	74.00	19.98	150	Horizontal
5	17355.00	54.35	6.75	68.20	13.85	150	Horizontal
6	17355.00	43.94	6.75	54.00	10.06	150	Horizontal
7	17878.55	47.53	8.66	54.00	6.47	150	Horizontal

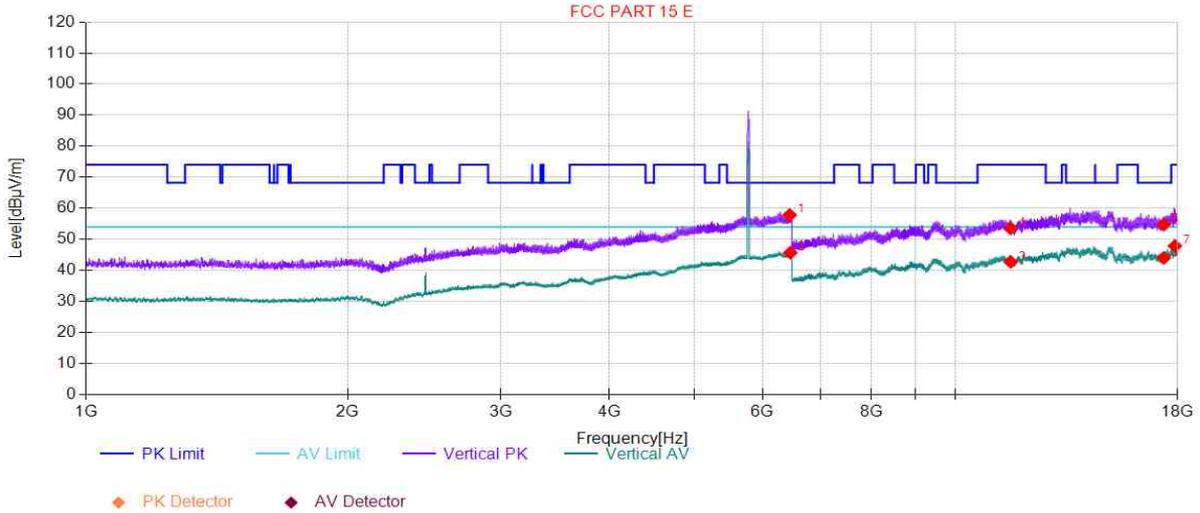
#### Final Data List



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**4.9.1.88 802.11AC20\_Channel 157**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6444.629	57.81	18.41	68.20	10.39	150	Vertical
2	6456.363	45.65	18.47	54.00	8.35	150	Vertical
3	11570.00	42.71	2.92	54.00	11.29	150	Vertical
4	11570.00	53.51	2.92	74.00	20.49	150	Vertical
5	17355.00	54.71	6.75	68.20	13.49	150	Vertical
6	17355.00	43.99	6.75	54.00	10.01	150	Vertical
7	17875.79	47.86	8.63	54.00	6.14	150	Vertical

**Final Data List**

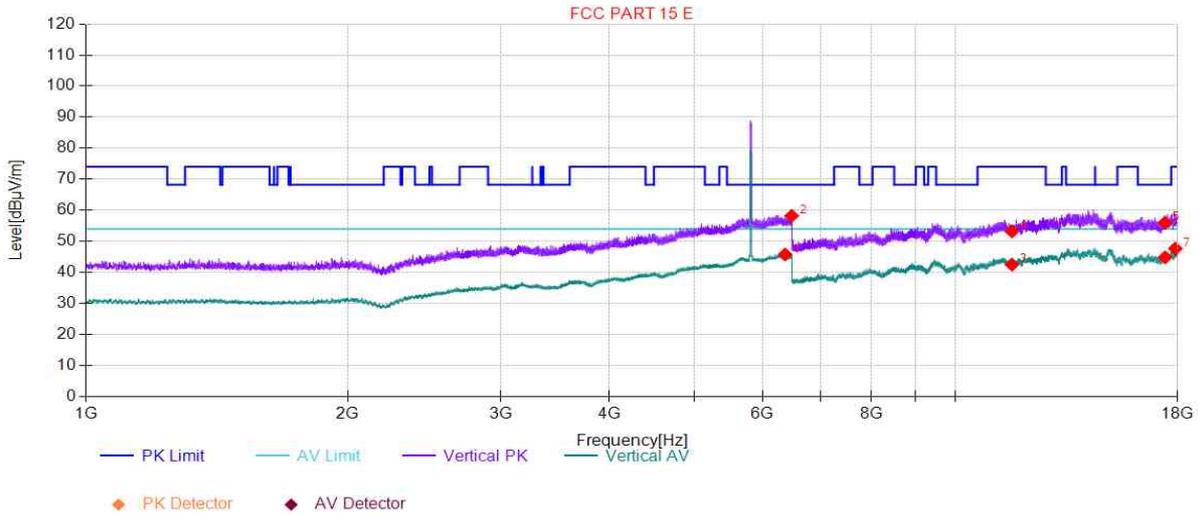


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**4.9.1.90 802.11AC20\_Channel 161**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6367.257	45.74	18.27	54.00	8.26	150	Vertical
2	6479.465	58.20	18.60	68.20	10.00	150	Vertical
3	11610.00	42.47	3.14	54.00	11.53	150	Vertical
4	11610.00	53.20	3.14	74.00	20.80	150	Vertical
5	17415.00	55.94	6.97	68.20	12.26	150	Vertical
6	17415.00	44.79	6.97	54.00	9.21	150	Vertical
7	17896.03	47.64	8.80	54.00	6.36	150	Vertical

**Final Data List**



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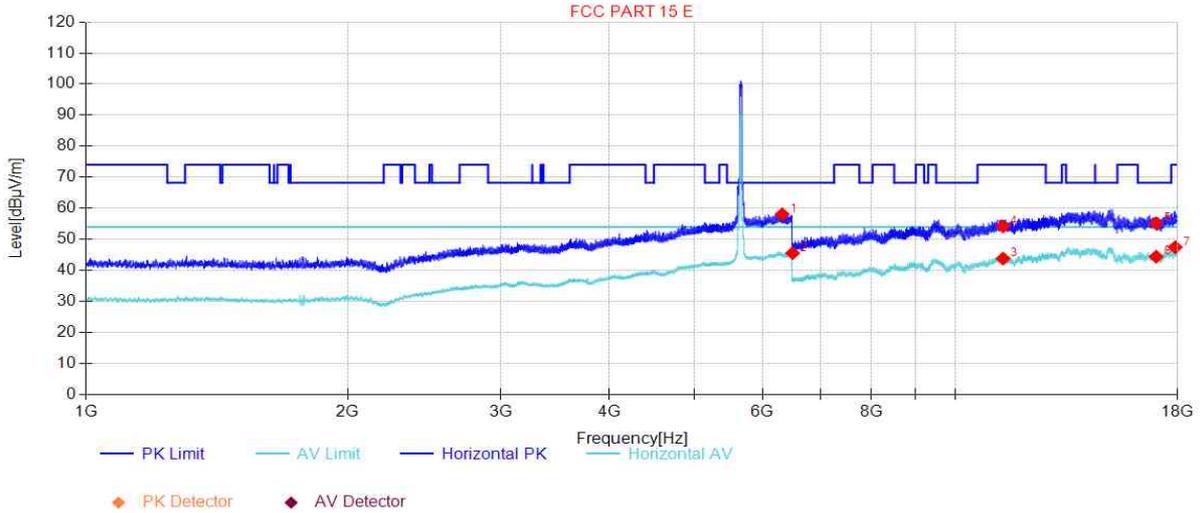






**4.9.1.103 802.11AC40\_Channel 134**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6319.221	58.03	18.42	68.20	10.17	150	Horizontal
2	6495.966	45.53	18.69	54.00	8.47	150	Horizontal
3	11340.00	43.77	2.55	54.00	10.23	150	Horizontal
4	11340.00	54.15	2.55	74.00	19.85	150	Horizontal
5	17010.00	55.14	6.16	68.20	13.06	150	Horizontal
6	17010.00	44.38	6.16	54.00	9.62	150	Horizontal
7	17885.91	47.44	8.72	54.00	6.56	150	Horizontal

**Final Data List**

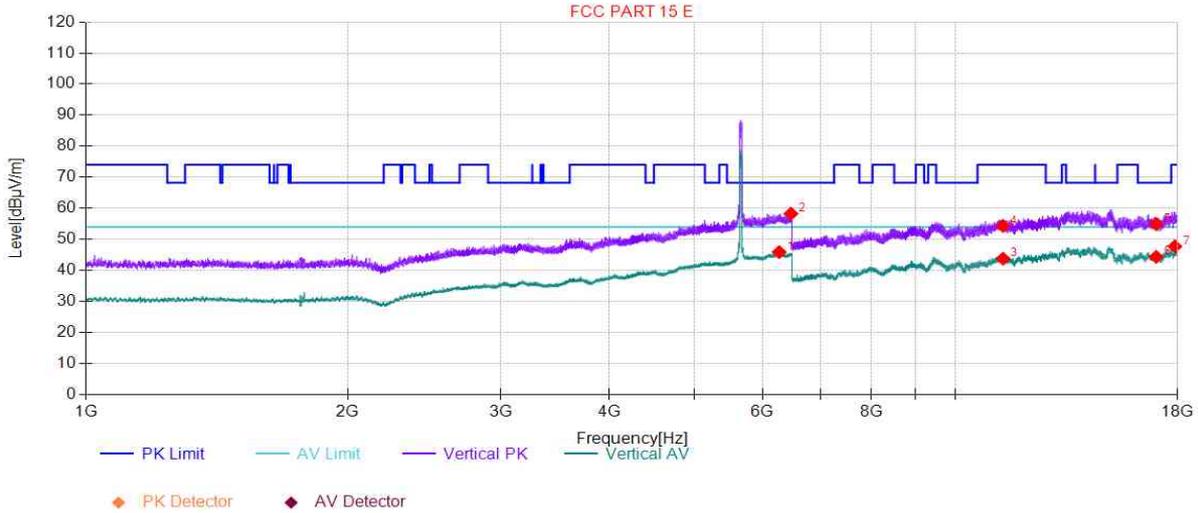


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**4.9.1.104 802.11AC40\_Channel 134**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6268.984	45.86	18.33	54.00	8.14	150	Vertical
2	6466.264	58.22	18.53	68.20	9.98	150	Vertical
3	11340.00	43.75	2.55	54.00	10.25	150	Vertical
4	11340.00	54.31	2.55	74.00	19.69	150	Vertical
5	17010.00	54.90	6.16	68.20	13.30	150	Vertical
6	17010.00	44.33	6.16	54.00	9.67	150	Vertical
7	17875.33	47.72	8.63	54.00	6.28	150	Vertical

**Final Data List**



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