

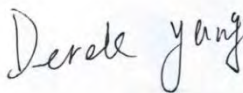
# FCC TEST REPORT

**Application No.:** ZR/2021/40016  
**Applicant:** Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
**Address of Applicant** NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China  
**Manufacturer:** Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
**Address of Manufacturer** NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China  
**EUT Description:** Mobile Phone  
**Model No.:** CPH2251  
**Trade Mark:** OPPO  
**FCC ID:** R9C-CPH2251  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR FCC Part 15, Subpart E  
**Date of Receipt:** 2021/4/21  
**Date of Test:** 2021/4/21 to 2021/6/16  
**Date of Issue:** 2021/6/16

<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		2021-06-16		Original

Authorized for issue by:		
Prepared By		 <hr/> (Dee Zheng) / Engineer
Checked By		 <hr/> (Jim Huang) / Reviewer



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## 2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result	Test Lab*
26dB Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5	PASS	A
	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	A
99% Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS	A
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	--	No limit.	Clause 4.3	PASS	A
Maximum Conducted Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)	Clause 4.4	PASS	A
	5250-5350	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*Ig(EBW)} (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	<MIN{250mW, 11dBm+10*Ig(EBW)} (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	A
	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	B
	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:			



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			§15.209/§7.2.5 limit (AV&PK).			
	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. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS	
	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	B
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	PASS	B
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-	15.209	---	Clause 4.11	PASS	A



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	5850					
Dynamic Frequency Selection	5250-5350-5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	PASS	A

**Remark :**

1. Automatically Discontinue Transmission(Part 15.407(c)):While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

2.All test were performed by Lab A and B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Applicant	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Manufacturer	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

#### 3.2 Test Location

##### Lab A:

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
Test engineer:	Dee Zheng, Swing Hu, Habit Zeng

##### Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Leah Chen, Ken Liu, Andy Yao



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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 3.3 Test Facility

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

**Lab A:**

• **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.

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

**Lab B:**

**A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

**FCC-Designation Number: CN1271.**



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### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	CPH2251
Trade Mark:	OPPO
Hardware Version:	11
Software Version:	ColorOS V11.3
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 checked="" type="checkbox"/> 802.11ax (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (80 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11 a/ n(HT20/40)/ ac(VHT20/40/80)/ ax(VHE20/40/80): 5150MHz to 5250MHz IEEE 802.11 a/ n(HT20/40)/ ac(VHT20/40/80)/ ax(VHE20/40/80): 5250MHz to 5350MHz IEEE 802.11 a/ n(HT20/40)/ ac(VHT20/40/80)/ ax(VHE20/40/80): 5470MHz to 5725MHz IEEE 802.11 a/ n(HT20/40)/ ac(VHT20/40/80)/ ax(VHE20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM/OFDMA
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:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 2, <input checked="" type="checkbox"/> Ant 8, <input type="checkbox"/> Ant 3
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac/ax), <input checked="" type="checkbox"/> MIMO (for 802.11n/ac/ax), <input type="checkbox"/> Diversity (for 802.11a).
Antenna Gain:	-5dBi(ANT2); -3.5dBi(ANT8);

**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



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For UNII Band I:

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

For UNII Band II-A:

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

For UNII Band II-C:

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

For UNII Band III:

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



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### 3.5 Test Environment and Mode

<b>Operating Environment:</b>	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
<b>Test mode:</b>	
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 -5dBi(ANT2); -3.5dBi(ANT8).	

### 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>		



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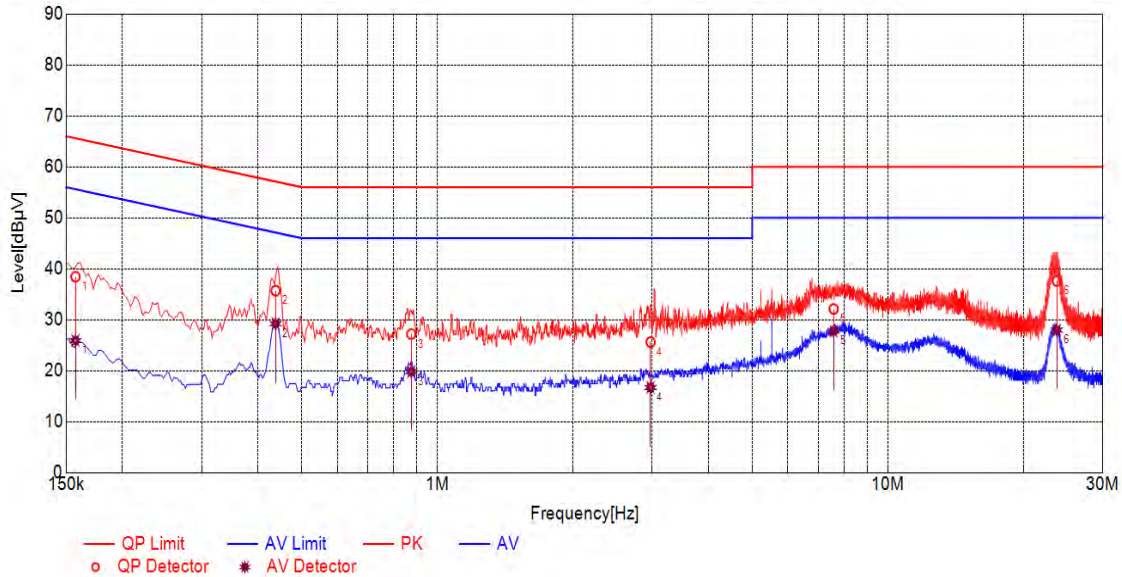
<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in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

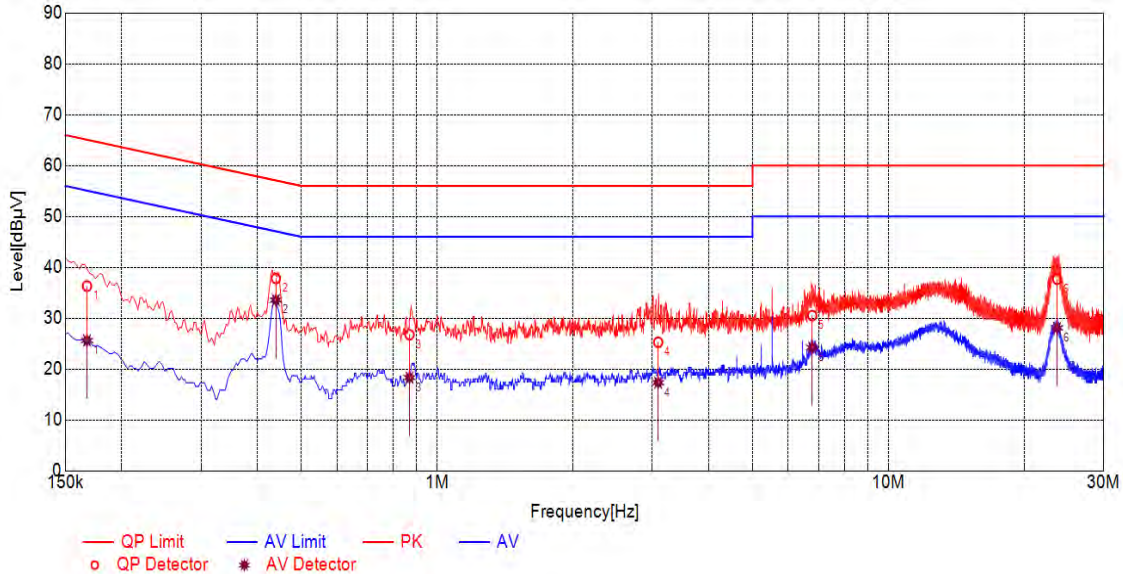


**Test Graph**

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]
1	0.1573	10.10	38.45	65.61	27.16	25.92	55.61	29.69
2	0.4377	10.10	35.71	57.10	21.39	29.22	47.10	17.88
3	0.8753	10.10	27.18	56.00	28.82	19.82	46.00	26.18
4	2.9737	10.10	25.62	56.00	30.38	16.71	46.00	29.29
5	7.5821	10.10	32.13	60.00	27.87	27.76	50.00	22.24
6	23.7144	10.11	37.61	60.00	22.39	27.96	50.00	22.04



Neutral Line:



Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]
1	0.1676	10.10	36.32	65.08	28.76	25.62	55.08	29.46
2	0.4393	10.10	37.82	57.07	19.25	33.55	47.07	13.52
3	0.8688	10.10	26.75	56.00	29.25	18.33	46.00	27.67
4	3.0895	10.10	25.27	56.00	30.73	17.34	46.00	28.66
5	6.7801	10.10	30.52	60.00	29.48	24.24	50.00	25.76
6	23.6459	10.11	37.69	60.00	22.31	28.09	50.00	21.91

Remark:

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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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### 4.3 Duty Cycle

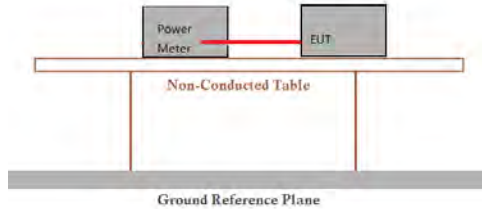
The detailed test data see: **Appendix**



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#### 4.4 Conducted Output Power

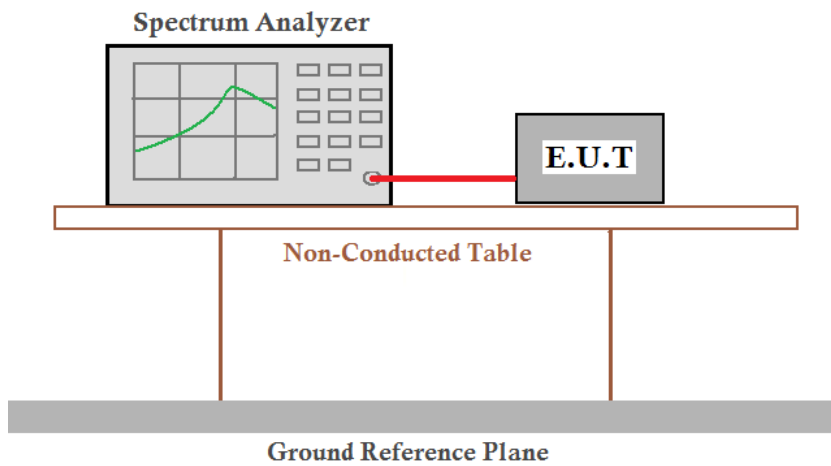
Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case 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(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). 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+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	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

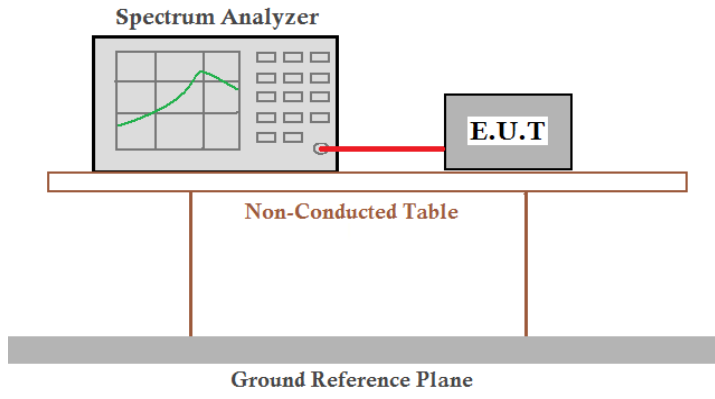
Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; 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(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). 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

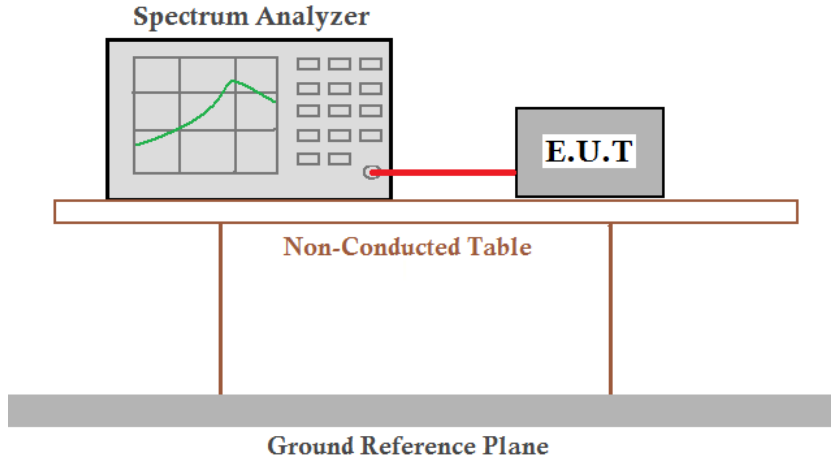
Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case 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(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). 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 6 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(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

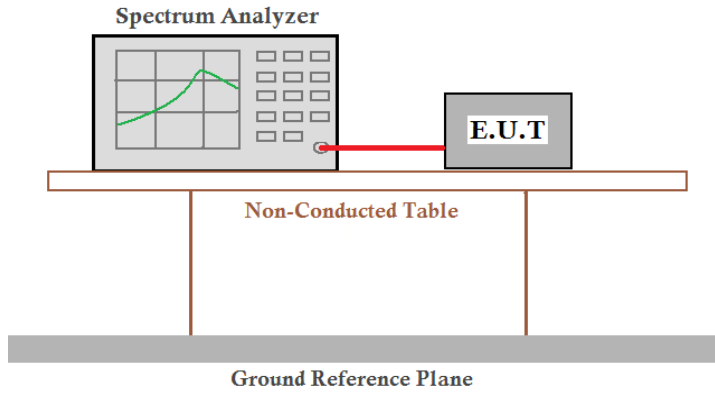
The detailed test data see: **Appendix**



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### 4.8 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 6 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(VHT20)ax(VHE20). MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40). MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80). 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:	

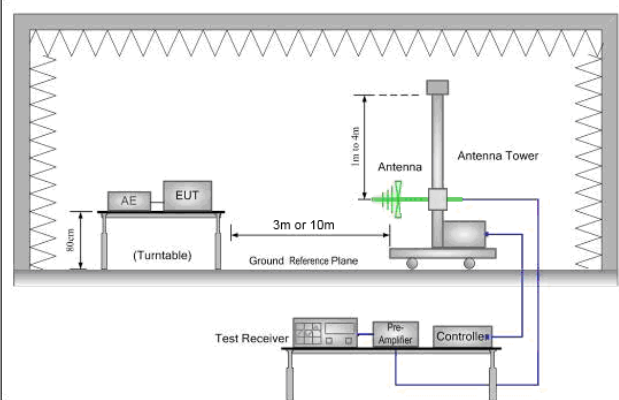


Figure 1. 30MHz to 1GHz

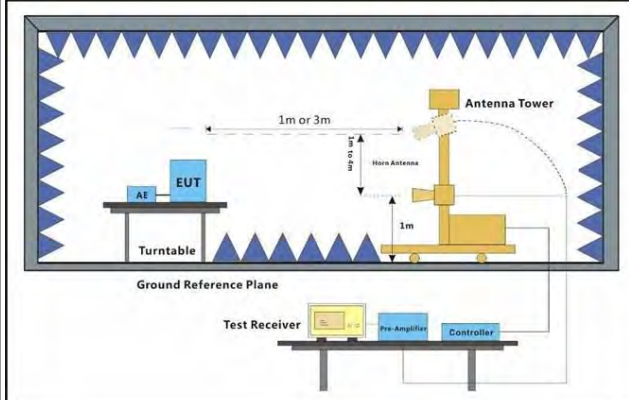


Figure 2. Above 1 GHz

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);



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	<p>MCS0 of rate is the worst case of 802.11ac(VHT20)ax(VHE20).  MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40).  MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80).  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 6 for details
Test Results:	Pass

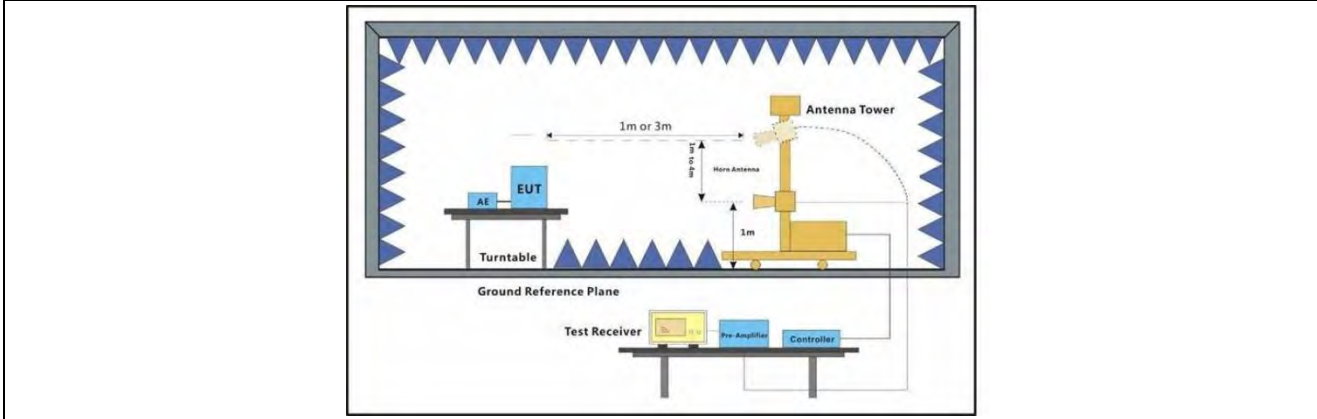
The detailed test data see: **Appendix**



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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>a. 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>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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>g. Test the EUT in the outermost channels.</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 worse case.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>
<p>Final Test Mode:</p>	<p>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(VHT20)ax(VHE20).          MCS0 of rate is the worst case of 802.11ac(VHT40)ax(VHE40).          MCS0 of rate is the worst case of 802.11ac(VHT80)ax(VHE80).          Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>

The detailed test data see: **Appendix**



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## 4.11 Frequencies Stability

### 4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency ( MHz )	
	5180	5825
V nom(V)	5180.008169	5825.000943
V max(V)	5180.012837	5825.001394
V min(V)	5180.013967	5825.003995
Max. Deviation Frequency	0.013967	0.003995
Max. Frequency Error (ppm)	2.696340	0.685875

### 4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency ( MHz )	
	5180	5825
-5	5180.004709	5825.001289
5	5180.006628	5825.003092
15	5180.014841	5825.003120
25	5180.020825	5825.011368
35	5180.028763	5825.012755
45	5180.032113	5825.021029
50	5180.036096	5825.030758
Max. Deviation Frequency	0.036096	0.030758
Max. Frequency Error (ppm)	6.968267	5.280323



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## 4.12 Dynamic Frequency Selection

### 4.12.1 DFS Overview

**Table 1: Applicability of DFS Requirements Prior to Use of a Channel**

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

**Table 2: Applicability of DFS requirements during normal operation**

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p><b>Note:</b> Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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**4.12.2 DFS Detection Thresholds**

**Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

**4.12.3 Response Requirements**

**Table 4: DFS Response Requirement Values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	



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**4.12.4 Test plots**  
**Channel Move Time and Channel Closing Transmission Time**

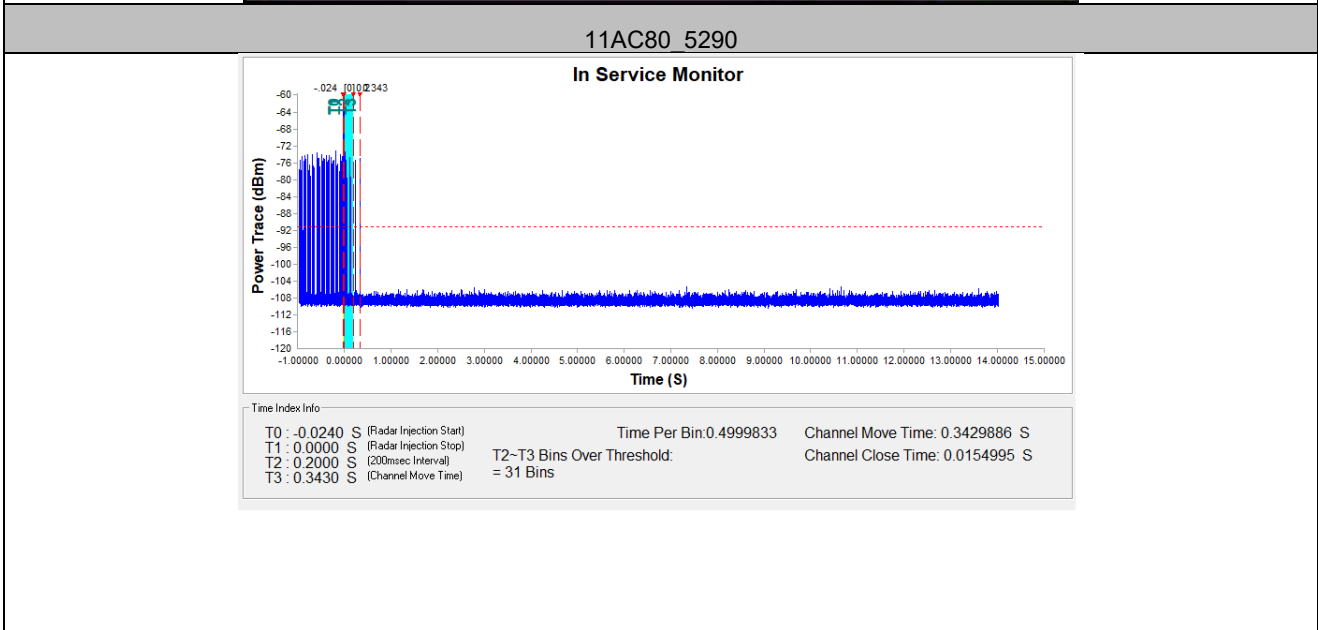
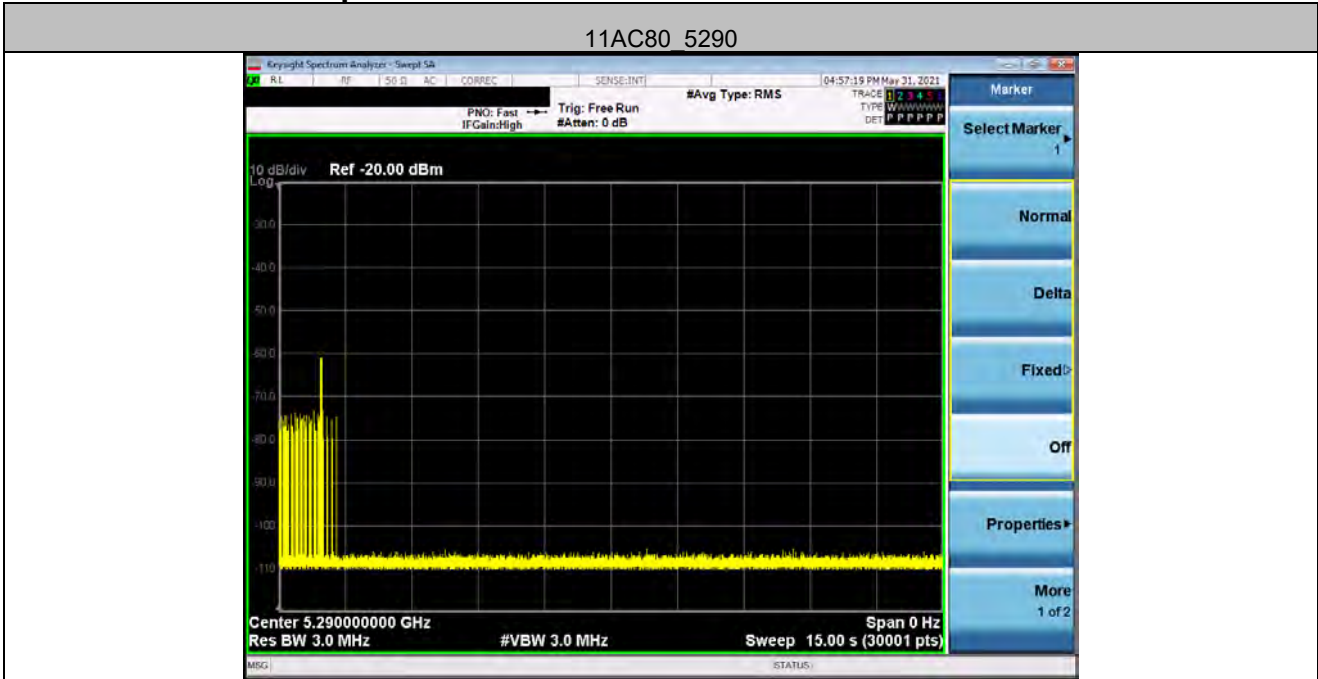
**4.12.4.1.1 Test Result**

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80	5290	15.50	60	342.99	10000	PASS



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### 4.12.4.1.2 Test Graphs



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 <sup>-8</sup>
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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## 6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/4/14	2022/4/13
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2021/4/14	2022/4/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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DFS Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR433	SEM001-11	2019-06-13	2022-06-12
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2021-04-08	2022-04-07
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2021-03-24	2022-03-23
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2021-03-24	2022-03-23
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2020-09-23	2021-09-22
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2021-03-23	2022-03-22
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2021-04-08	2022-04-07
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2021-04-08	2022-04-07
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2021-03-24	2022-03-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-14	2021-03-24	2022-03-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2021-03-24	2022-03-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2021-03-24	2022-03-23
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-03	2021-03-24	2022-03-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2020-07-10	2021-07-09



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2021-04-01	2022-03-31
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



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# Appendix



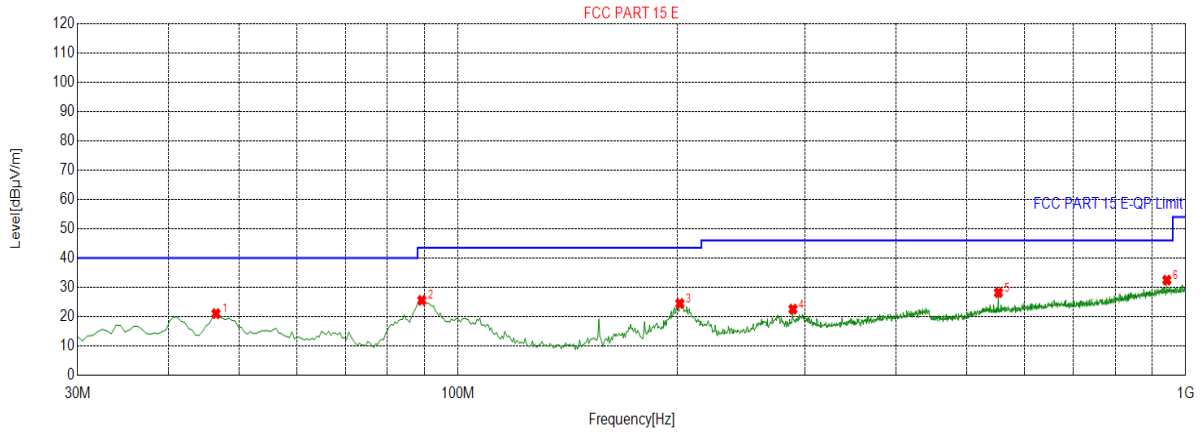
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## Radiated Spurious Emission

### Radiated Emission below 1GHz

#### Charge + Transmitting Test Graph



● QP Detector

#### Suspected List

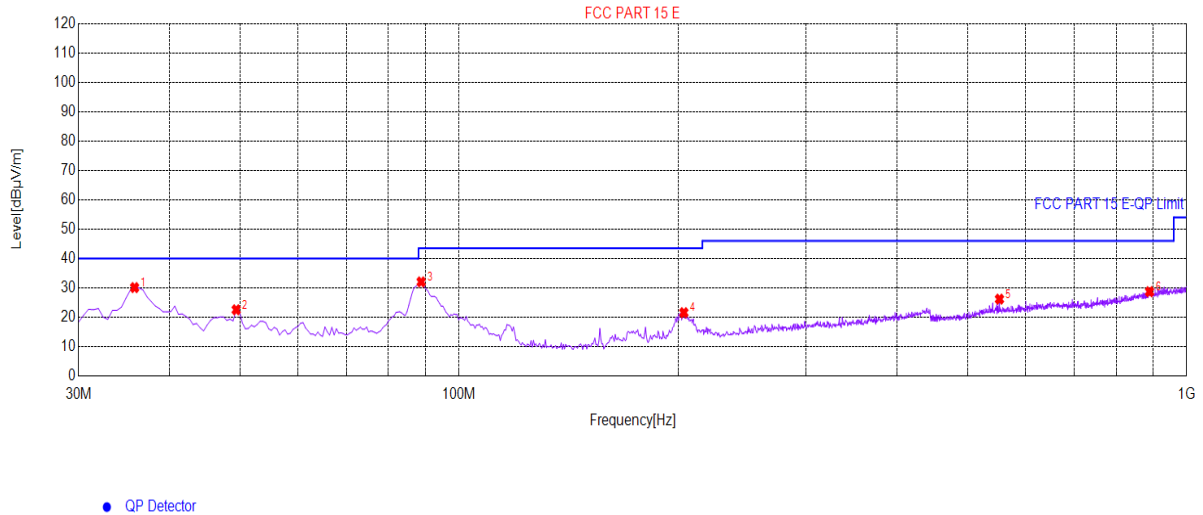
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.4982	21.02	-21.39	40.00	18.98	274	146	Horizontal
2	89.1996	25.55	-24.71	43.50	17.95	165	280	Horizontal
3	201.775	24.48	-22.38	43.50	19.02	184	221	Horizontal
4	288.634	22.54	-19.52	46.00	23.46	258	90	Horizontal
5	553.091	28.17	-13.03	46.00	17.83	178	290	Horizontal
6	942.256	32.45	-7.30	46.00	13.55	196	84	Horizontal

#### Final Data List



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### Test Graph



### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	30.10	-23.68	40.00	9.90	184	338	Vertical
2	49.4097	22.55	-21.37	40.00	17.45	195	313	Vertical
3	88.7144	32.04	-24.85	43.50	11.46	175	96	Vertical
4	203.716	21.56	-22.23	43.50	21.94	162	313	Vertical
5	553.091	26.17	-13.03	46.00	19.83	182	2	Vertical
6	889.364	28.70	-7.69	46.00	17.30	172	360	Vertical

### Final Data List

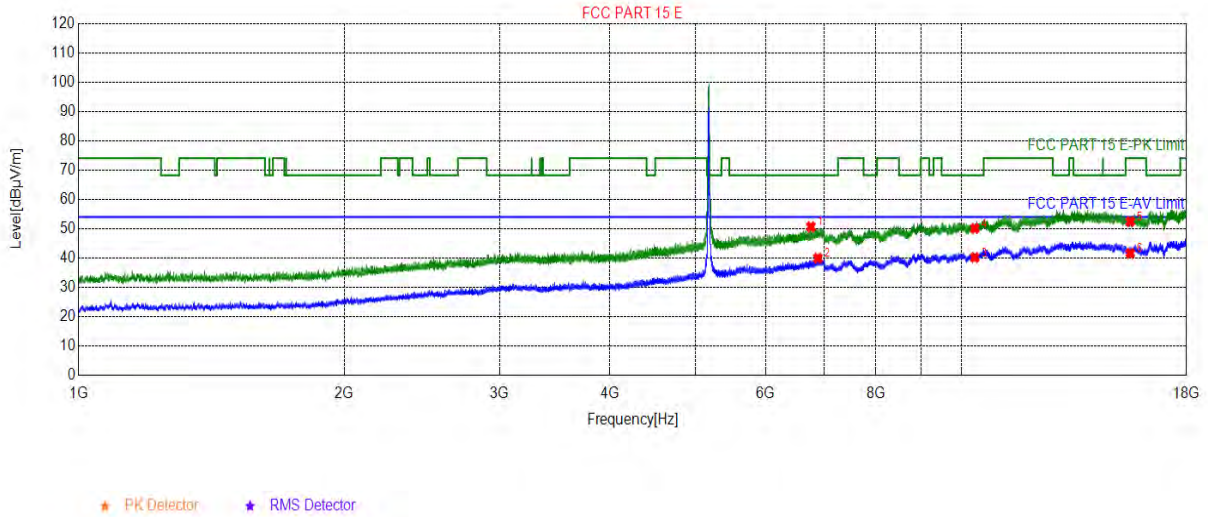


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802.11A\_Channel 36

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6755.18	50.64	21.32	68.20	17.56	177	151	Horizontal
2	6879.99	39.94	21.46	54.00	14.06	185	236	Horizontal
3	10360.0	40.19	-2.34	54.00	13.81	196	78	Horizontal
4	10360.0	50.07	-2.34	68.20	18.13	194	124	Horizontal
5	15540.0	52.41	2.07	74.00	21.59	213	300	Horizontal
6	15540.0	41.60	2.07	54.00	12.40	226	345	Horizontal

Final Data List

(This table is identical to the Suspected List table above.)

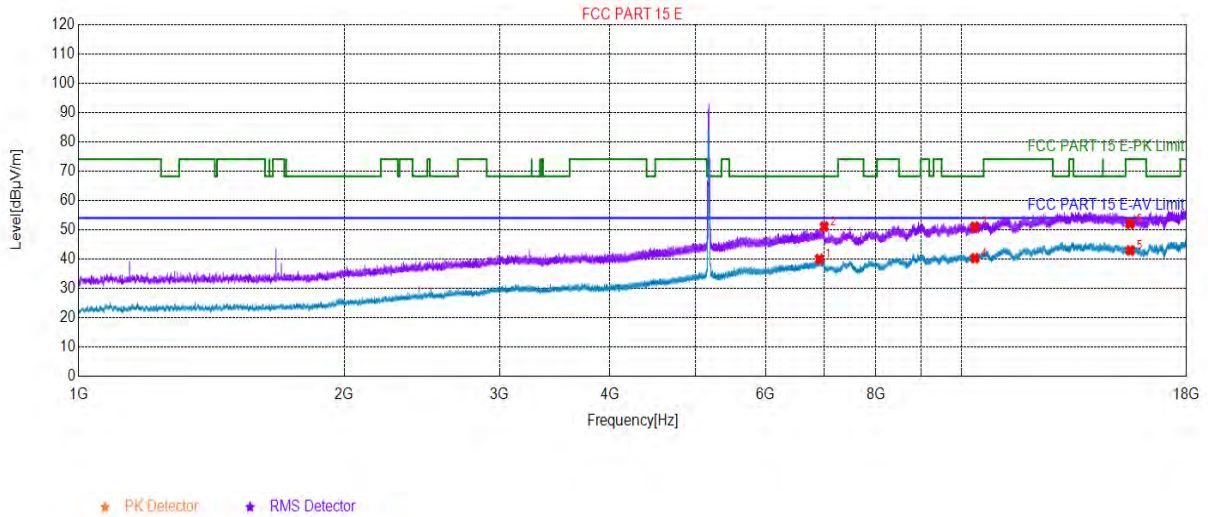


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802.11A\_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.39	39.96	21.31	54.00	14.04	168	92	Vertical
2	6994.29	51.06	21.61	68.20	17.14	212	39	Vertical
3	10360.0	51.04	-2.34	68.20	17.16	215	161	Vertical
4	10360.0	40.25	-2.34	54.00	13.75	197	331	Vertical
5	15540.0	42.92	2.07	54.00	11.08	184	359	Vertical
6	15540.0	52.02	2.07	74.00	21.98	165	331	Vertical

Final Data List

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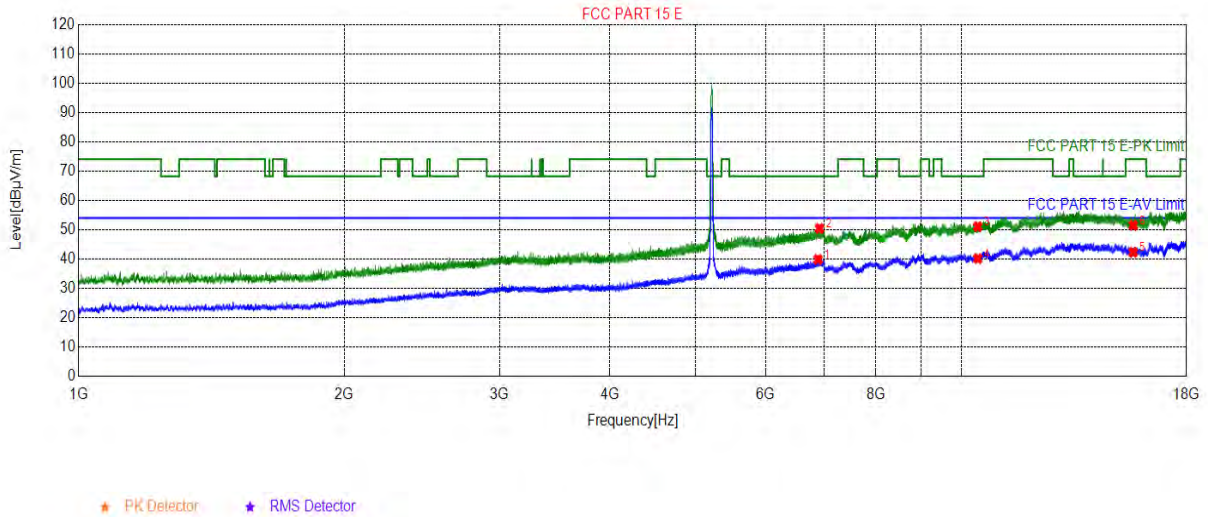
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802.11A\_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6882.69	39.84	21.34	54.00	14.16	174	119	Horizontal
2	6909.09	50.42	21.20	68.20	17.78	185	333	Horizontal
3	10440.0	51.05	-2.03	68.20	17.15	169	72	Horizontal
4	10440.0	40.13	-2.03	54.00	13.87	178	107	Horizontal
5	15660.0	42.24	1.53	54.00	11.76	188	348	Horizontal
6	15660.0	51.47	1.53	74.00	22.53	165	148	Horizontal

Final Data List

Final Data List table content is not visible in the provided image.

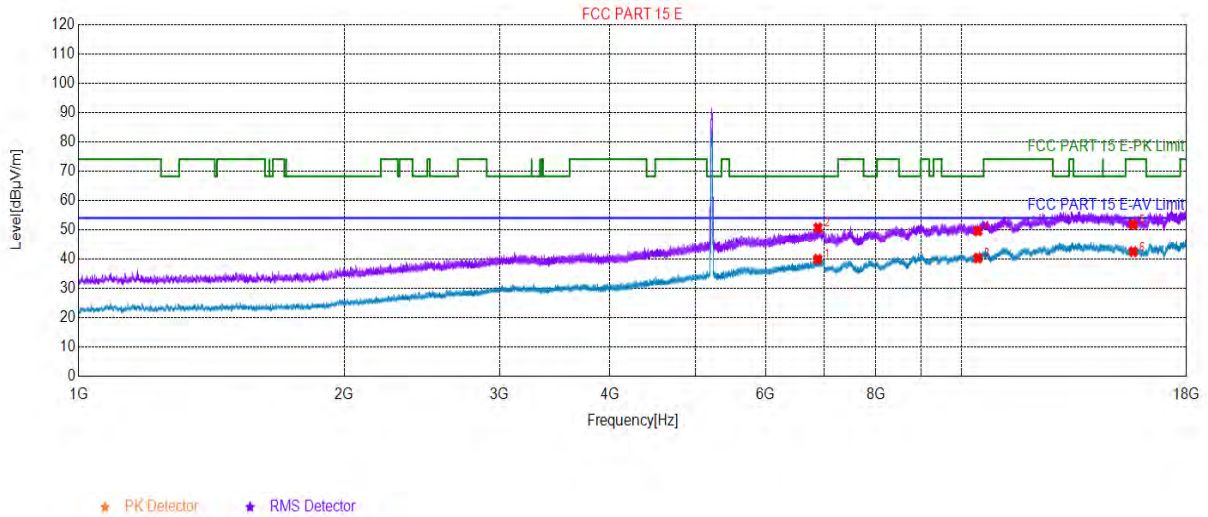


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### 802.11A\_Channel 44

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6876.39	39.93	21.23	54.00	14.07	187	348	Vertical
2	6882.39	50.60	21.35	68.20	17.60	177	228	Vertical
3	10440.0	40.30	-2.03	54.00	13.70	169	98	Vertical
4	10440.0	49.53	-2.03	68.20	18.67	198	39	Vertical
5	15660.0	51.72	1.53	74.00	22.28	165	46	Vertical
6	15660.0	42.49	1.53	54.00	11.51	158	62	Vertical

#### Final Data List

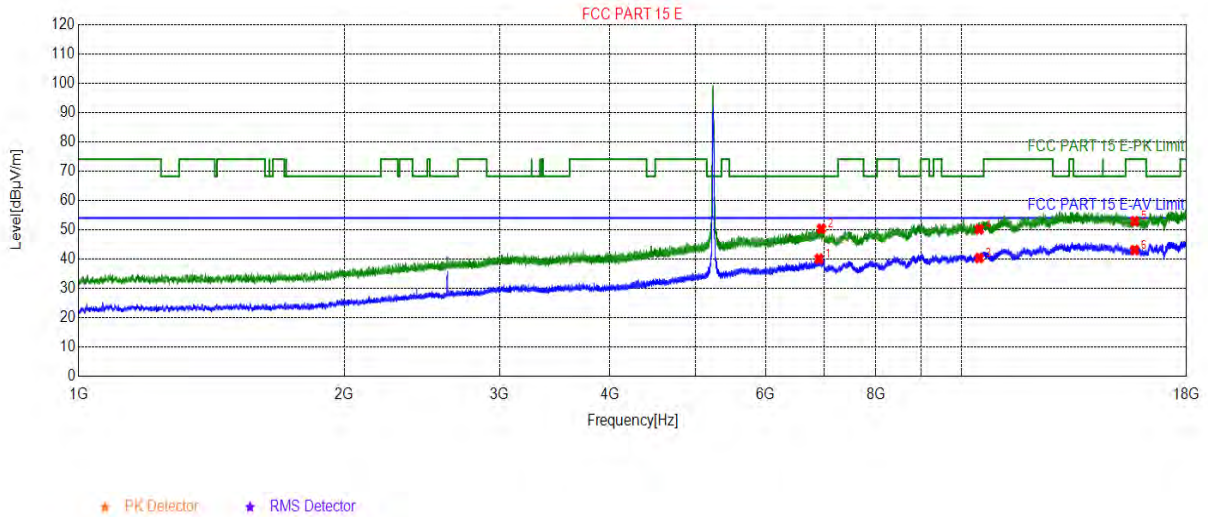


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802.11A\_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6899.49	40.05	21.53	54.00	13.95	215	321	Horizontal
2	6942.39	50.33	21.41	68.20	17.87	205	60	Horizontal
3	10480.0	40.33	-1.93	54.00	13.67	187	220	Horizontal
4	10480.0	50.11	-1.93	68.20	18.09	168	220	Horizontal
5	15720.0	52.85	1.46	74.00	21.15	174	342	Horizontal
6	15720.0	43.06	1.46	54.00	10.94	159	54	Horizontal

Final Data List

Final Data List



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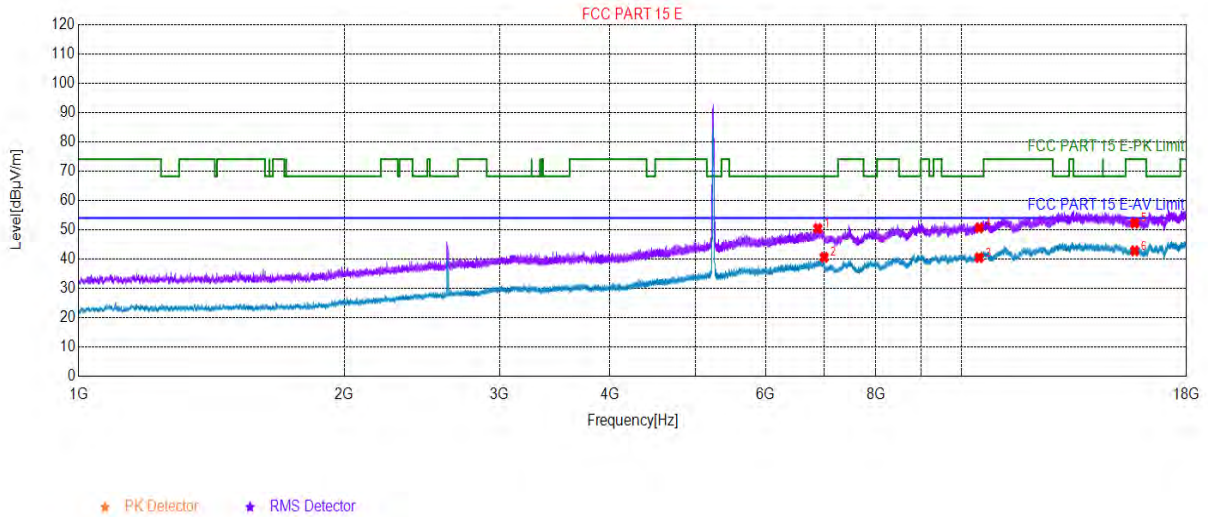
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**802.11A\_Channel 48**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6878.49	50.40	21.36	68.20	17.80	178	241	Vertical
2	6993.39	40.57	21.61	54.00	13.43	185	150	Vertical
3	10480.0	40.46	-1.93	54.00	13.54	199	85	Vertical
4	10480.0	50.62	-1.93	68.20	17.58	215	184	Vertical
5	15720.0	52.23	1.46	74.00	21.77	208	184	Vertical
6	15720.0	42.80	1.46	54.00	11.20	236	47	Vertical

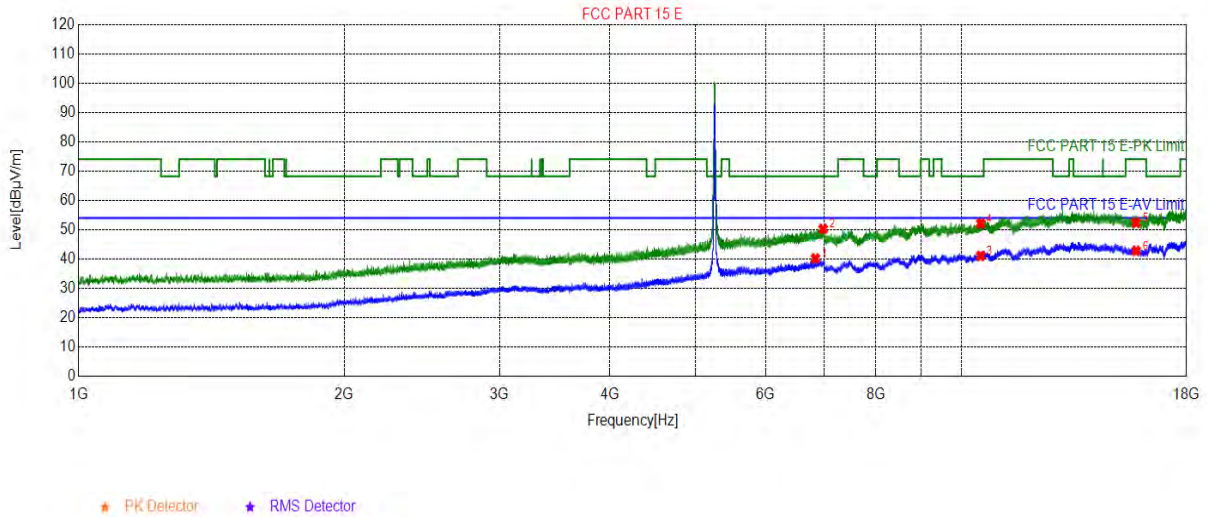
**Final Data List**

*(This section is intentionally left blank in the provided image.)*



802.11A\_Channel 52

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6835.59	40.17	21.27	54.00	13.83	175	16	Horizontal
2	6975.09	50.26	21.29	68.20	17.94	185	275	Horizontal
3	10520.0	41.07	-1.91	54.00	12.93	196	84	Horizontal
4	10520.0	52.10	-1.91	68.20	16.10	214	220	Horizontal
5	15780.0	52.34	1.54	74.00	21.66	200	54	Horizontal
6	15780.0	42.79	1.54	54.00	11.21	216	152	Horizontal

Final Data List



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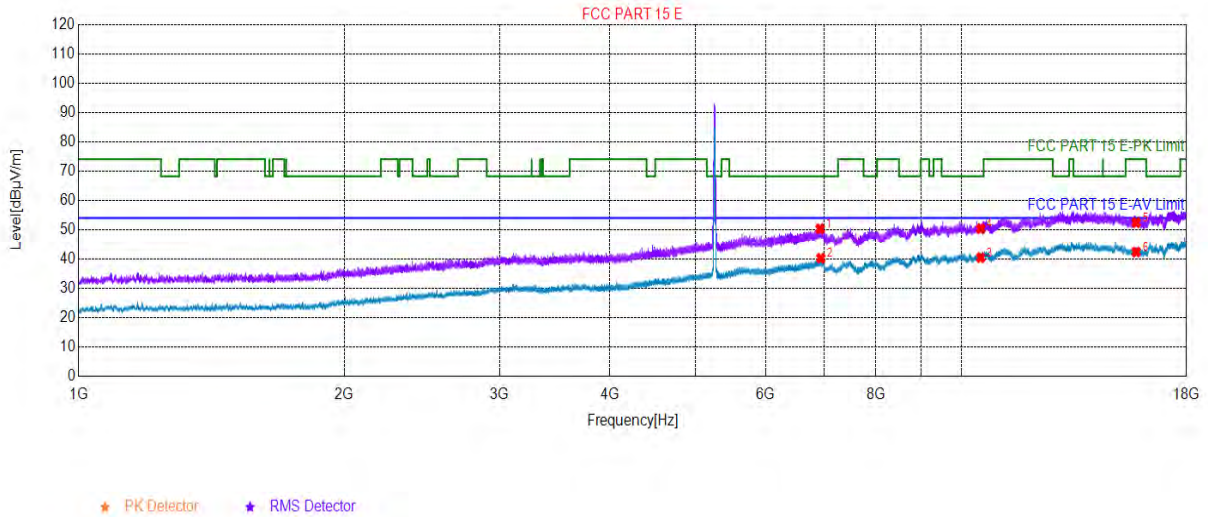
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802.11A\_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6919.89	50.30	21.16	68.20	17.90	174	125	Vertical
2	6932.79	40.26	21.43	54.00	13.74	185	358	Vertical
3	10520.0	40.47	-1.91	54.00	13.53	194	358	Vertical
4	10520.0	50.29	-1.91	68.20	17.91	186	16	Vertical
5	15780.0	52.42	1.54	74.00	21.58	166	16	Vertical
6	15780.0	42.39	1.54	54.00	11.61	174	145	Vertical

Final Data List

(This section is intentionally left blank in the provided image)

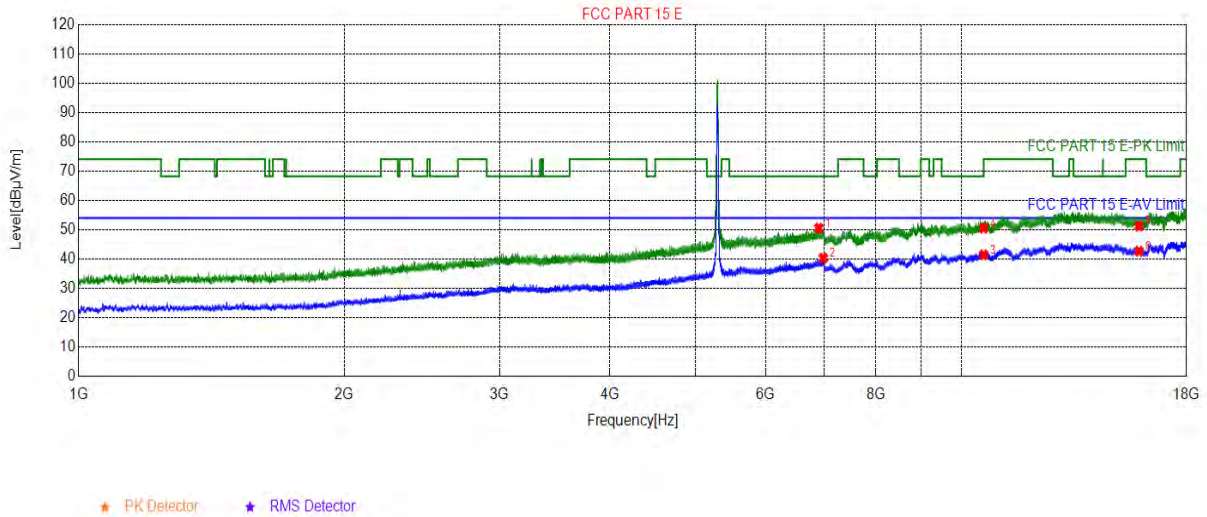


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### 802.11A\_Channel 60

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6895.29	50.51	21.29	68.20	17.69	177	191	Horizontal
2	6978.09	40.30	21.35	54.00	13.70	185	175	Horizontal
3	10600.0	41.44	-1.66	54.00	12.56	196	261	Horizontal
4	10600.0	50.50	-1.66	74.00	23.50	159	345	Horizontal
5	15900.0	51.22	1.46	74.00	22.78	171	239	Horizontal
6	15900.0	42.65	1.46	54.00	11.35	180	78	Horizontal

#### Final Data List

Final Data List table content is not visible in the provided image.



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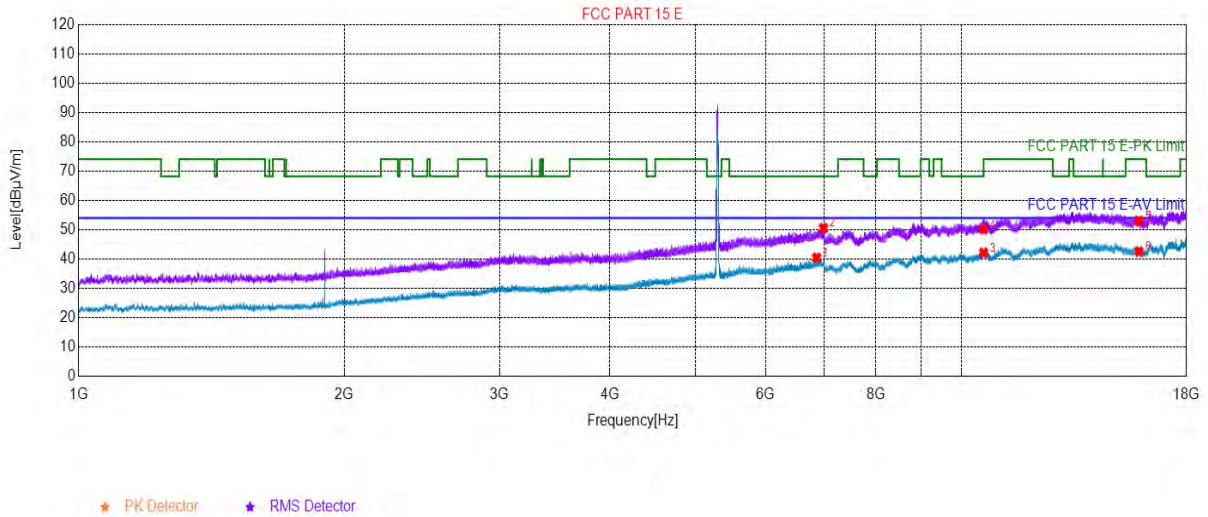
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802.11A\_Channel 60

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6857.19	40.41	21.39	54.00	13.59	178	246	Vertical
2	6980.79	50.54	21.41	68.20	17.66	185	298	Vertical
3	10600.0	42.12	-1.66	54.00	11.88	194	274	Vertical
4	10600.0	50.16	-1.66	74.00	23.84	177	107	Vertical
5	15900.0	52.99	1.46	74.00	21.01	165	92	Vertical
6	15900.0	42.55	1.46	54.00	11.45	158	335	Vertical

Final Data List

(This section is intentionally left blank in the provided image)



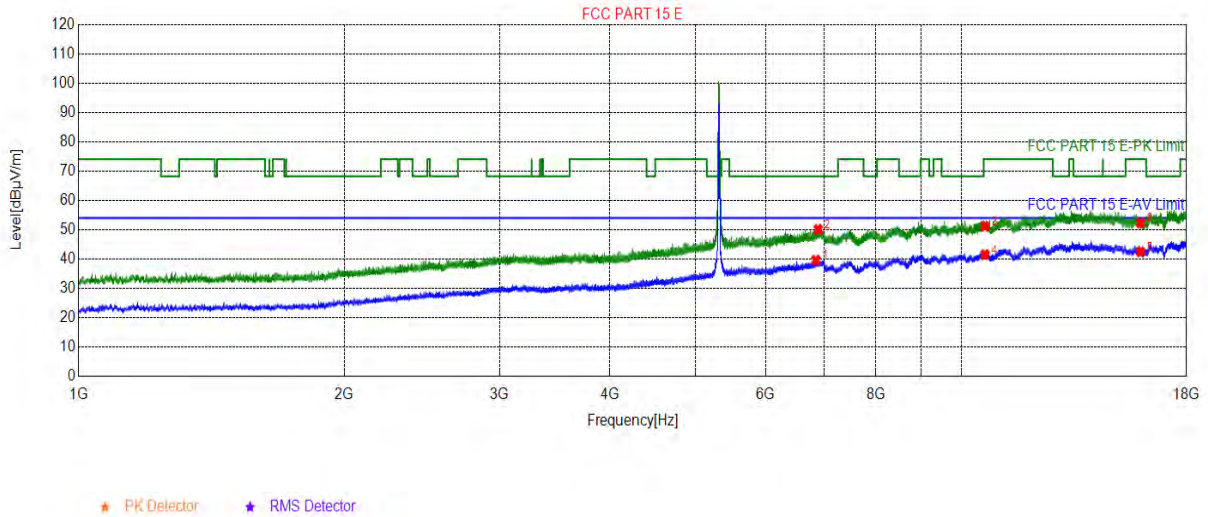
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### 802.11A\_Channel 64

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6845.19	39.59	21.42	54.00	14.41	195	146	Horizontal
2	6884.49	50.09	21.25	68.20	18.11	184	2	Horizontal
3	10640.0	51.16	-1.85	74.00	22.84	158	300	Horizontal
4	10640.0	41.52	-1.85	54.00	12.48	167	100	Horizontal
5	15960.0	42.45	0.90	54.00	11.55	174	47	Horizontal
6	15960.0	52.28	0.90	74.00	21.72	182	24	Horizontal

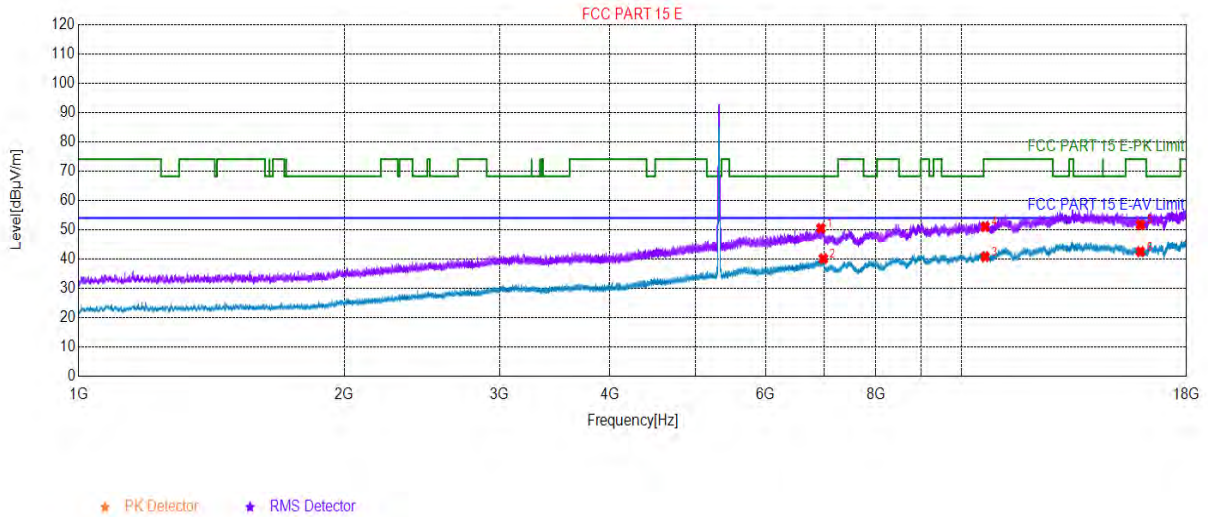
#### Final Data List



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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]	Angle [°]	Polarity
1	6935.79	50.46	21.45	68.20	17.74	158	161	Vertical
2	6978.39	40.11	21.36	54.00	13.89	196	344	Vertical
3	10640.0	40.77	-1.85	54.00	13.23	174	221	Vertical
4	10640.0	50.99	-1.85	74.00	23.01	159	85	Vertical
5	15960.0	51.65	0.90	74.00	22.35	168	228	Vertical
6	15960.0	42.50	0.90	54.00	11.50	177	160	Vertical

Final Data List

(This section is intentionally left blank in the provided image.)

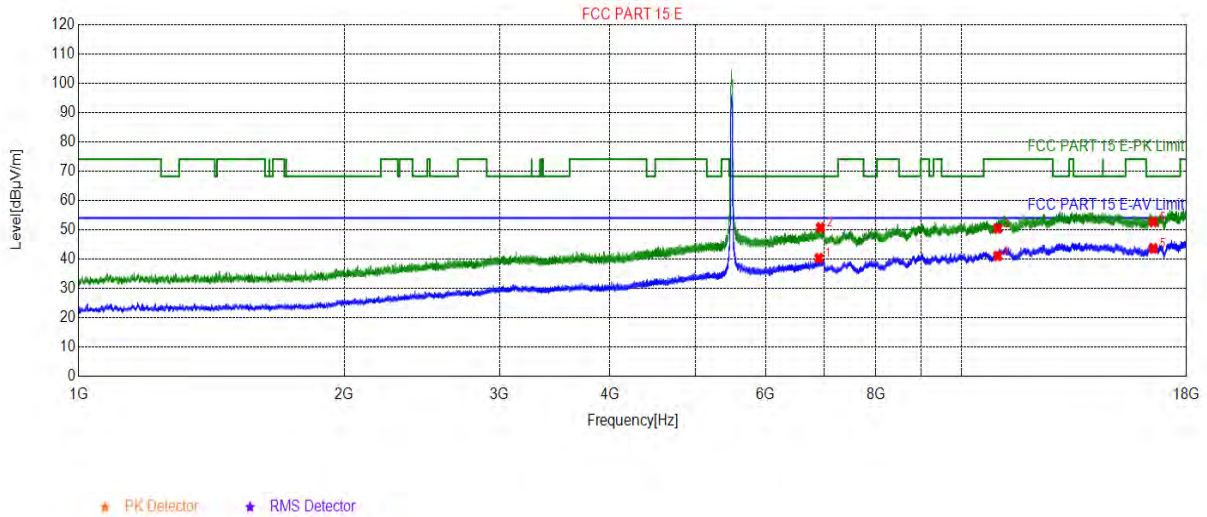


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### 802.11A\_Channel 100

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6898.89	40.27	21.49	54.00	13.73	187	47	Horizontal
2	6924.99	50.69	21.29	68.20	17.51	178	329	Horizontal
3	11000.0	50.40	-0.75	74.00	23.60	254	238	Horizontal
4	11000.0	41.04	-0.75	54.00	12.96	236	169	Horizontal
5	16500.0	43.61	0.43	54.00	10.39	208	268	Horizontal
6	16500.0	52.59	0.43	68.20	15.61	211	123	Horizontal

#### Final Data List



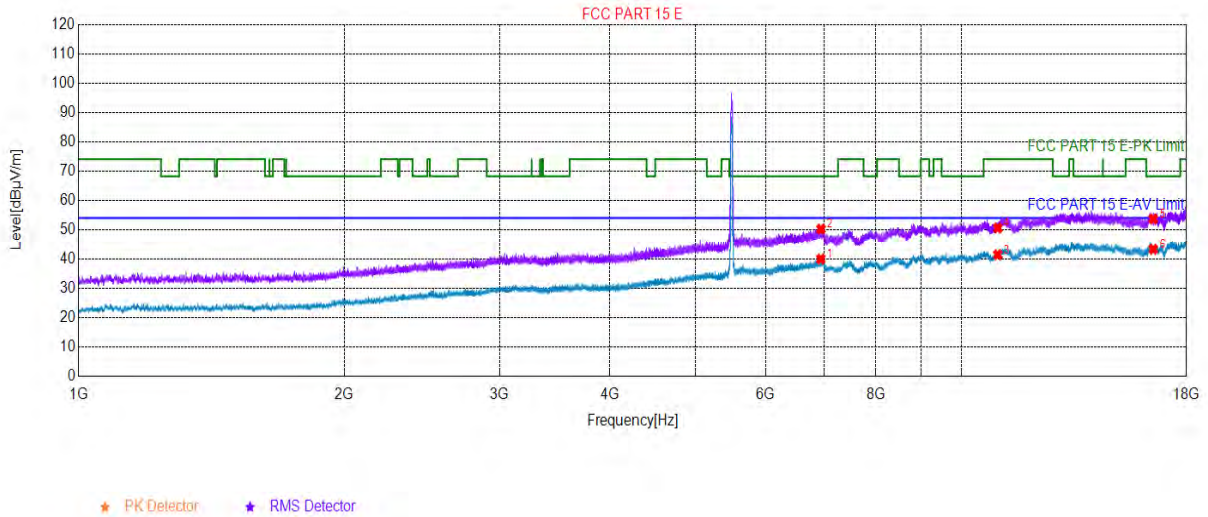
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### 802.11A\_Channel 100

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6933.39	40.00	21.44	54.00	14.00	213	245	Vertical
2	6935.19	50.20	21.45	68.20	18.00	200	78	Vertical
3	11000.0	41.45	-0.75	54.00	12.55	265	169	Vertical
4	11000.0	50.57	-0.75	74.00	23.43	239	185	Vertical
5	16500.0	53.65	0.43	68.20	14.55	247	215	Vertical
6	16500.0	43.34	0.43	54.00	10.66	218	123	Vertical

#### Final Data List

(This section is blank in the provided image)



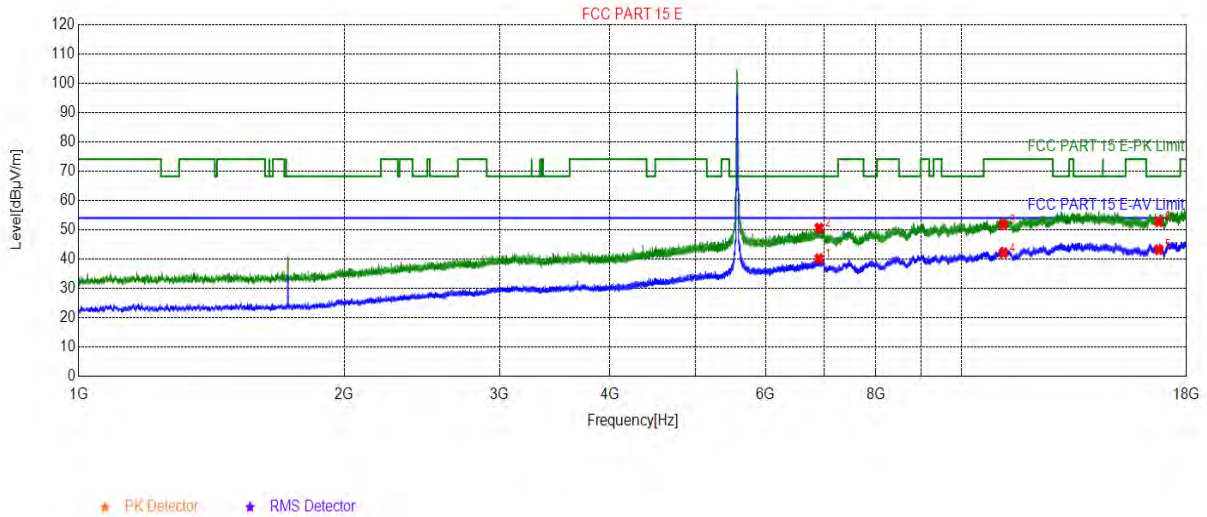
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### 802.11A\_Channel 116

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6899.49	40.11	21.53	54.00	13.89	178	214	Horizontal
2	6902.49	50.54	21.46	68.20	17.66	154	298	Horizontal
3	11160.0	51.80	-0.59	74.00	22.20	185	259	Horizontal
4	11160.0	42.06	-0.59	54.00	11.94	196	191	Horizontal
5	16740.0	43.20	0.86	54.00	10.80	167	54	Horizontal
6	16740.0	52.71	0.86	68.20	15.49	159	168	Horizontal

#### Final Data List

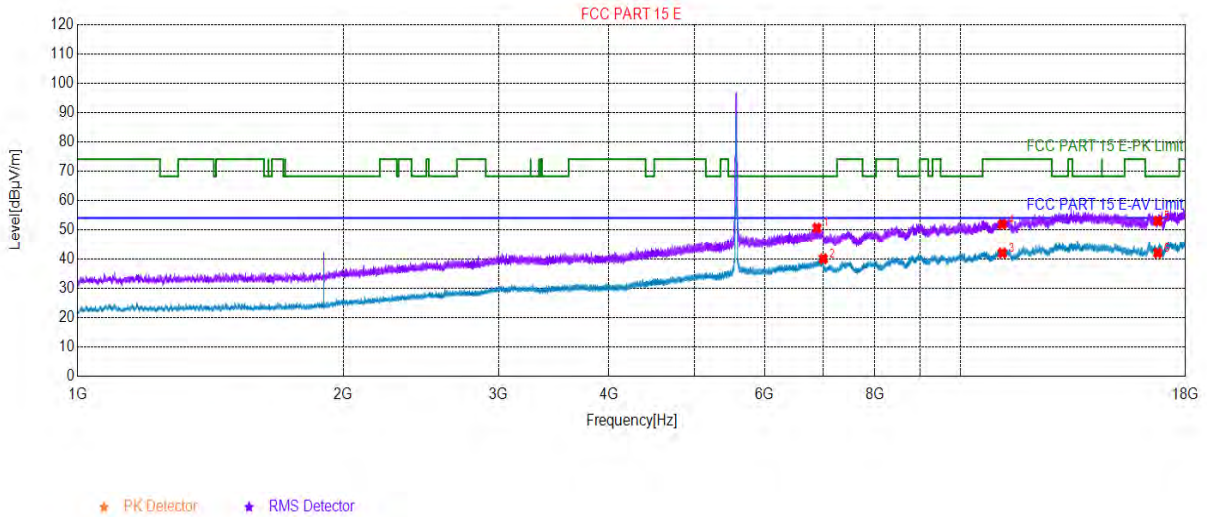


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802.11A\_Channel 116

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6880.29	50.55	21.45	68.20	17.65	178	177	Vertical
2	6996.99	40.07	21.62	54.00	13.93	189	146	Vertical
3	11160.0	42.02	-0.59	54.00	11.98	156	71	Vertical
4	11160.0	51.82	-0.59	74.00	22.18	168	18	Vertical
5	16740.0	52.97	0.86	68.20	15.23	174	242	Vertical
6	16740.0	42.04	0.86	54.00	11.96	199	211	Vertical

Final Data List

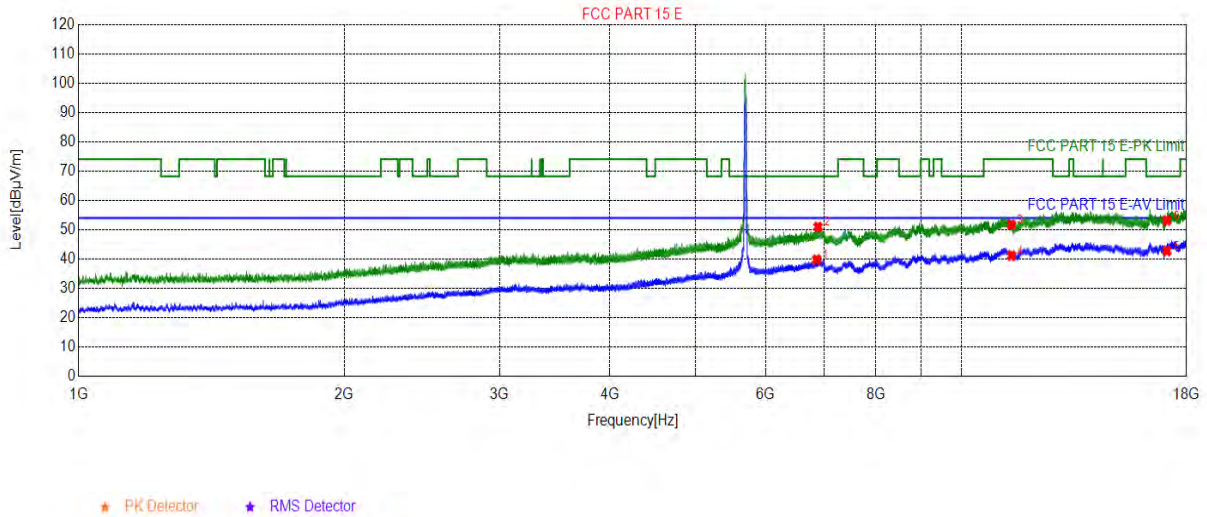
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### 802.11A\_Channel 140

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6858.69	39.79	21.40	54.00	14.21	187	16	Horizontal
2	6882.39	50.93	21.35	68.20	17.27	201	282	Horizontal
3	11400.0	51.67	-0.52	74.00	22.33	147	313	Horizontal
4	11400.0	41.15	-0.52	54.00	12.85	156	298	Horizontal
5	17100.0	42.76	-0.56	54.00	11.24	169	321	Horizontal
6	17100.0	53.09	-0.56	68.20	15.11	182	238	Horizontal

#### Final Data List

Final Data List (Content is identical to the Suspected List table above)



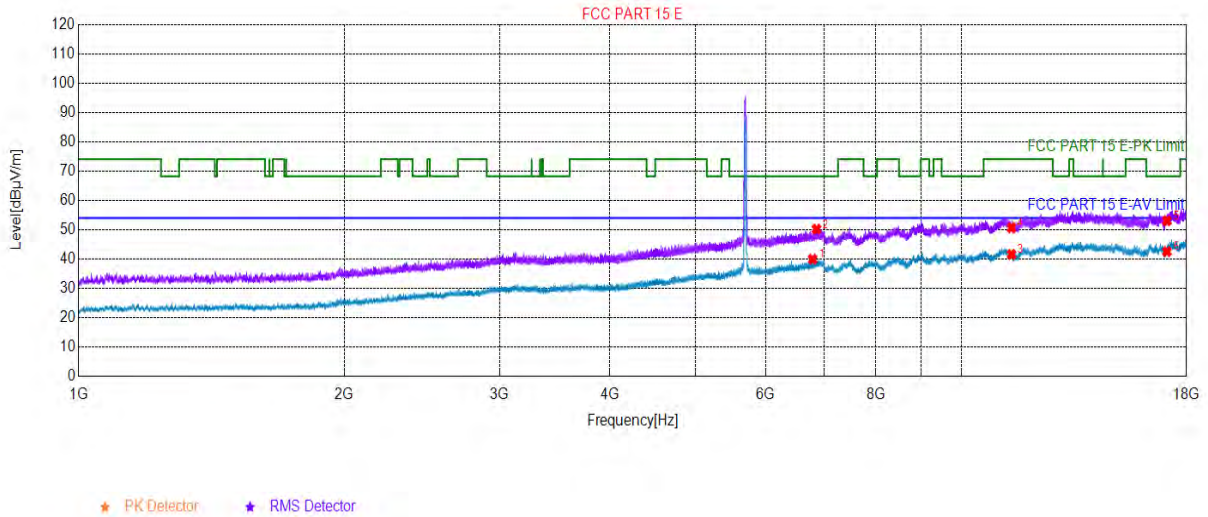
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802.11A\_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6786.38	39.93	21.13	54.00	14.07	174	268	Vertical
2	6855.39	50.18	21.38	68.20	18.02	158	138	Vertical
3	11400.0	41.58	-0.52	54.00	12.42	165	145	Vertical
4	11400.0	50.66	-0.52	74.00	23.34	194	306	Vertical
5	17100.0	53.02	-0.56	68.20	15.18	166	283	Vertical
6	17100.0	42.54	-0.56	54.00	11.46	181	283	Vertical

Final Data List

Final Data List table content is not visible in the provided image.



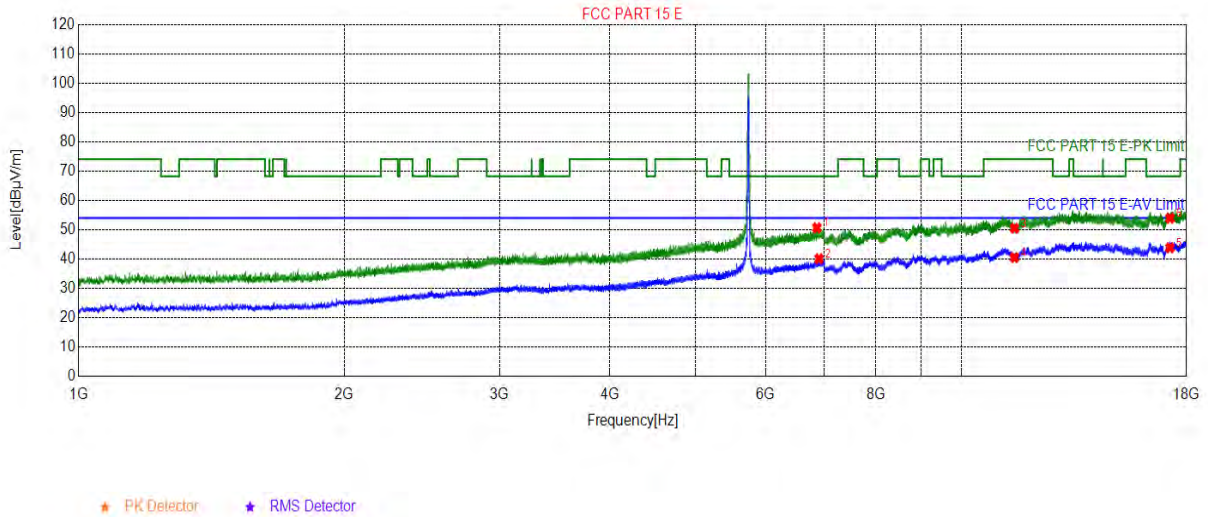
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### 802.11A\_Channel 149

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6861.99	50.63	21.29	68.20	17.57	177	0	Horizontal
2	6900.39	40.09	21.54	54.00	13.91	189	107	Horizontal
3	11490.0	50.49	-0.61	74.00	23.51	204	93	Horizontal
4	11490.0	40.47	-0.61	54.00	13.53	211	253	Horizontal
5	17235.0	43.82	0.36	54.00	10.18	245	291	Horizontal
6	17235.0	53.91	0.36	68.20	14.29	265	146	Horizontal

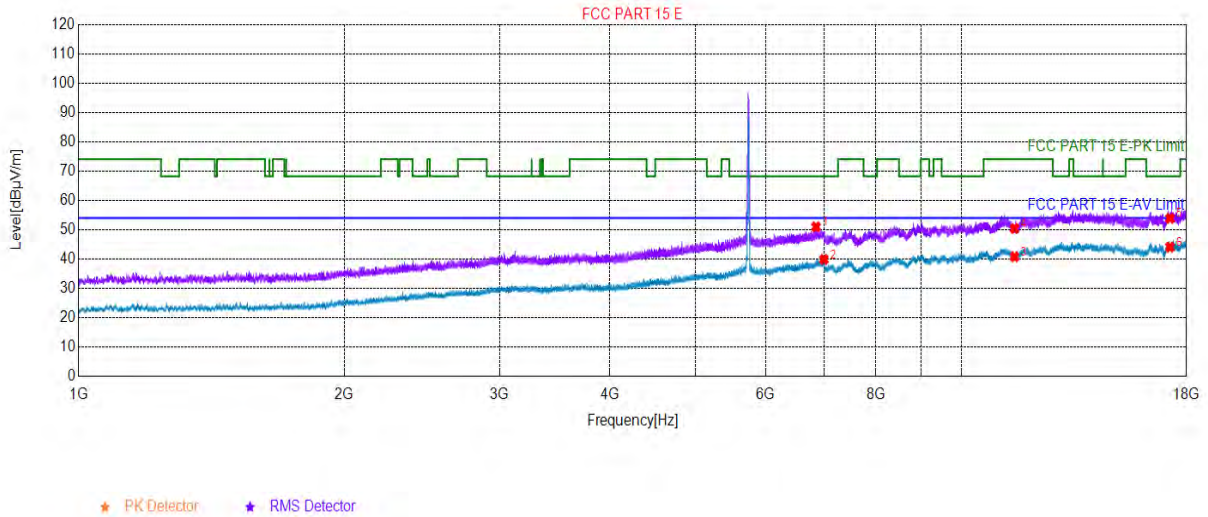
#### Final Data List



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### 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]	Angle [°]	Polarity
1	6846.69	50.95	21.40	68.20	17.25	213	137	Vertical
2	6987.69	39.86	21.54	54.00	14.14	205	283	Vertical
3	11490.0	40.79	-0.61	54.00	13.21	265	282	Vertical
4	11490.0	50.39	-0.61	74.00	23.61	245	290	Vertical
5	17235.0	53.85	0.36	68.20	14.35	289	268	Vertical
6	17235.0	44.05	0.36	54.00	9.95	269	321	Vertical

#### Final Data List

*(This section is intentionally left blank in the provided image.)*



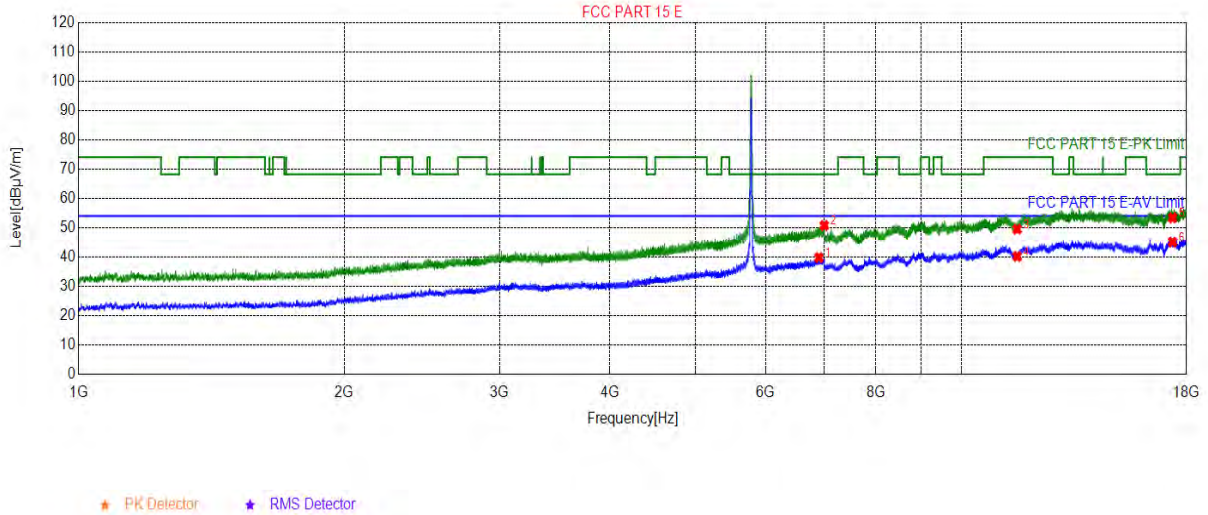
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**802.11A\_Channel 157**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6897.99	39.80	21.44	54.00	14.20	189	321	Horizontal
2	6995.19	50.74	21.62	68.20	17.46	201	306	Horizontal
3	11570.0	49.45	-0.41	74.00	24.55	225	154	Horizontal
4	11570.0	40.18	-0.41	54.00	13.82	263	154	Horizontal
5	17355.0	53.33	1.22	68.20	14.87	289	123	Horizontal
6	17355.0	45.11	1.22	54.00	8.89	241	54	Horizontal

**Final Data List**

*(This section is intentionally left blank in the provided image.)*



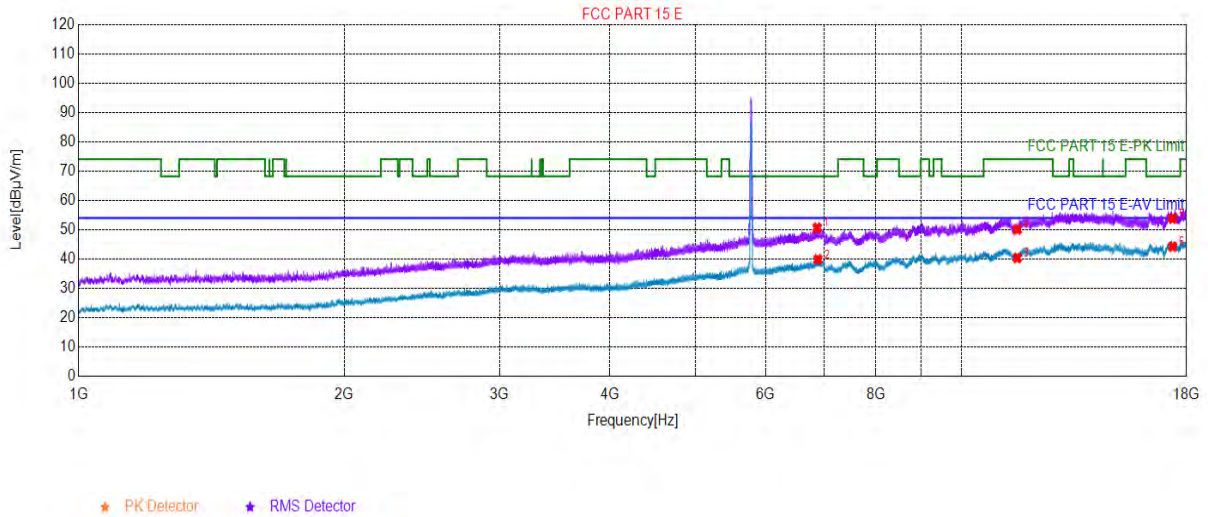
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### 802.11A\_Channel 157

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6867.09	50.65	20.98	68.20	17.55	178	222	Vertical
2	6879.99	39.86	21.46	54.00	14.14	184	39	Vertical
3	11570.0	40.37	-0.41	54.00	13.63	195	100	Vertical
4	11570.0	50.05	-0.41	74.00	23.95	168	298	Vertical
5	17355.0	53.79	1.22	68.20	14.41	159	2	Vertical
6	17355.0	44.21	1.22	54.00	9.79	155	153	Vertical

#### Final Data List



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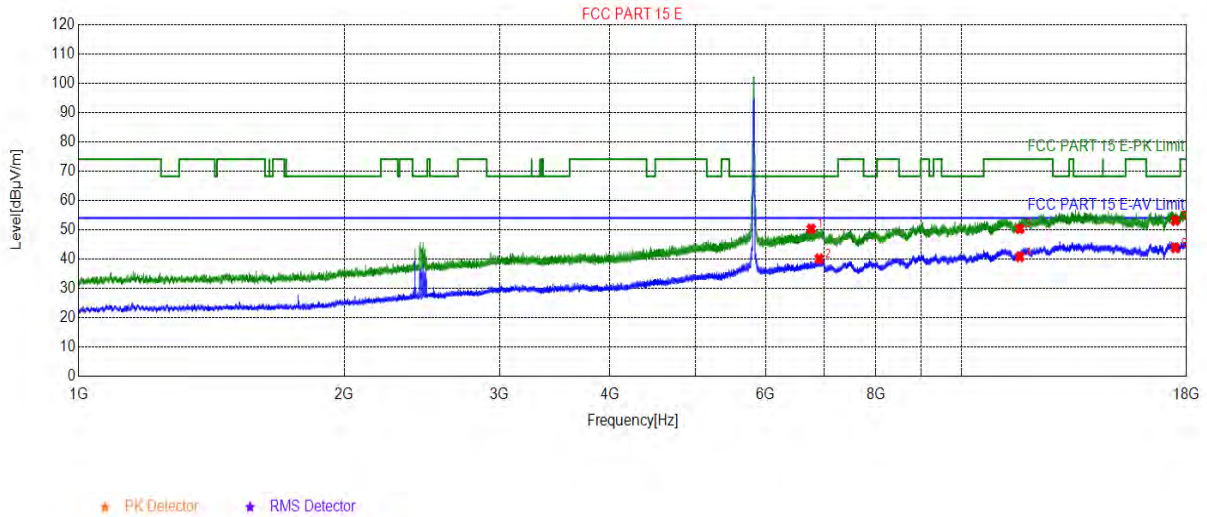
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### 802.11A\_Channel 165

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6760.58	50.26	21.62	68.20	17.94	178	237	Horizontal
2	6903.99	40.06	21.40	54.00	13.94	195	62	Horizontal
3	11650.0	50.29	0.03	74.00	23.71	214	328	Horizontal
4	11650.0	40.76	0.03	54.00	13.24	236	130	Horizontal
5	17475.0	53.09	1.66	68.20	15.11	258	160	Horizontal
6	17475.0	43.82	1.66	54.00	10.18	196	358	Horizontal

#### Final Data List

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6760.58	50.26	21.62	68.20	17.94	178	237	Horizontal
2	6903.99	40.06	21.40	54.00	13.94	195	62	Horizontal
3	11650.0	50.29	0.03	74.00	23.71	214	328	Horizontal
4	11650.0	40.76	0.03	54.00	13.24	236	130	Horizontal
5	17475.0	53.09	1.66	68.20	15.11	258	160	Horizontal
6	17475.0	43.82	1.66	54.00	10.18	196	358	Horizontal

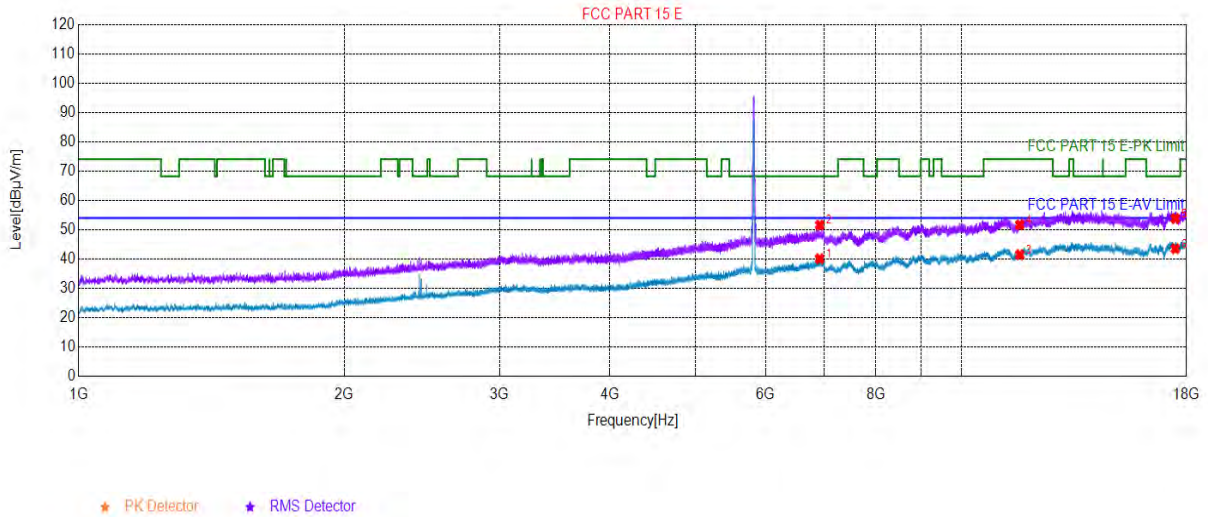


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**802.11A\_Channel 165**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6912.69	40.07	21.16	54.00	13.93	178	79	Vertical
2	6913.59	51.55	21.16	68.20	16.65	198	101	Vertical
3	11650.0	41.47	0.03	54.00	12.53	211	260	Vertical
4	11650.0	51.65	0.03	74.00	22.35	216	9	Vertical
5	17475.0	53.80	1.66	68.20	14.40	258	62	Vertical
6	17475.0	43.49	1.66	54.00	10.51	236	62	Vertical

**Final Data List**

*(This section is intentionally left blank in the provided image)*

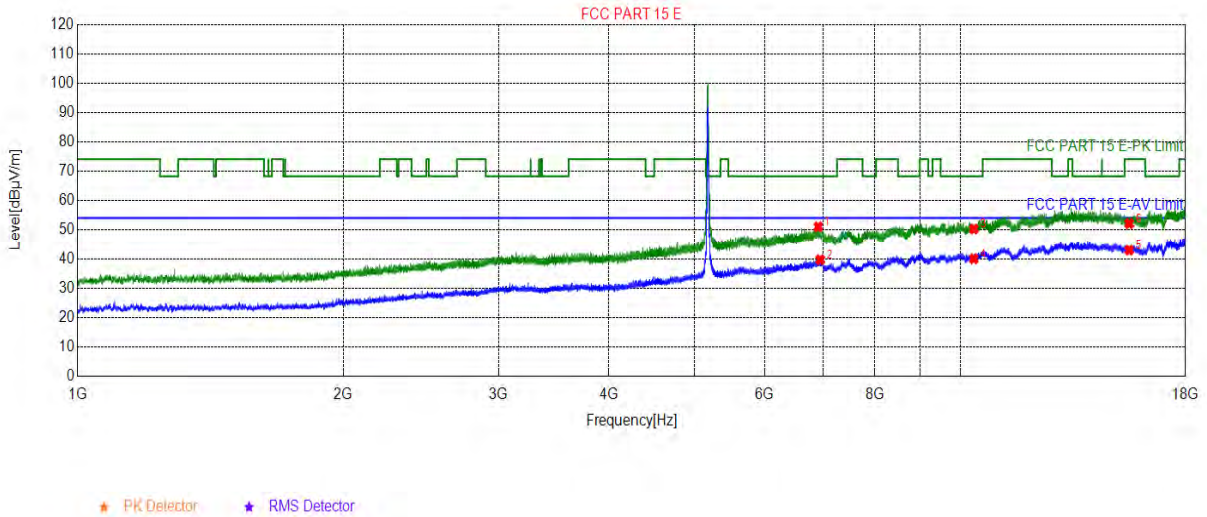


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802.11N20\_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6903.69	50.99	21.41	68.20	17.21	152	60	Horizontal
2	6939.99	39.76	21.48	54.00	14.24	174	267	Horizontal
3	10360.0	50.21	-2.34	68.20	17.99	254	209	Horizontal
4	10360.0	40.09	-2.34	54.00	13.91	262	162	Horizontal
5	15540.0	43.06	2.07	54.00	10.94	148	201	Horizontal
6	15540.0	52.06	2.07	74.00	21.94	184	232	Horizontal

Final Data List

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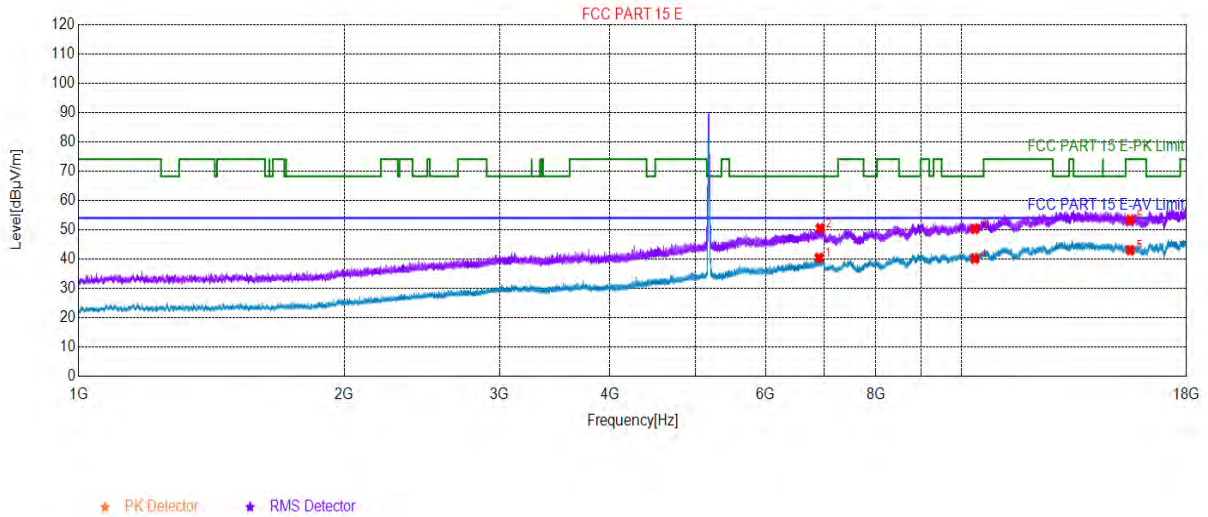
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**802.11N20\_Channel 36**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6900.99	40.42	21.52	54.00	13.58	174	313	Vertical
2	6920.19	50.46	21.16	68.20	17.74	184	182	Vertical
3	10360.0	50.26	-2.34	68.20	17.94	165	300	Vertical
4	10360.0	40.14	-2.34	54.00	13.86	184	185	Vertical
5	15540.0	43.00	2.07	54.00	11.00	195	209	Vertical
6	15540.0	53.29	2.07	74.00	20.71	155	124	Vertical

**Final Data List**

*(This section is intentionally left blank in the provided image)*



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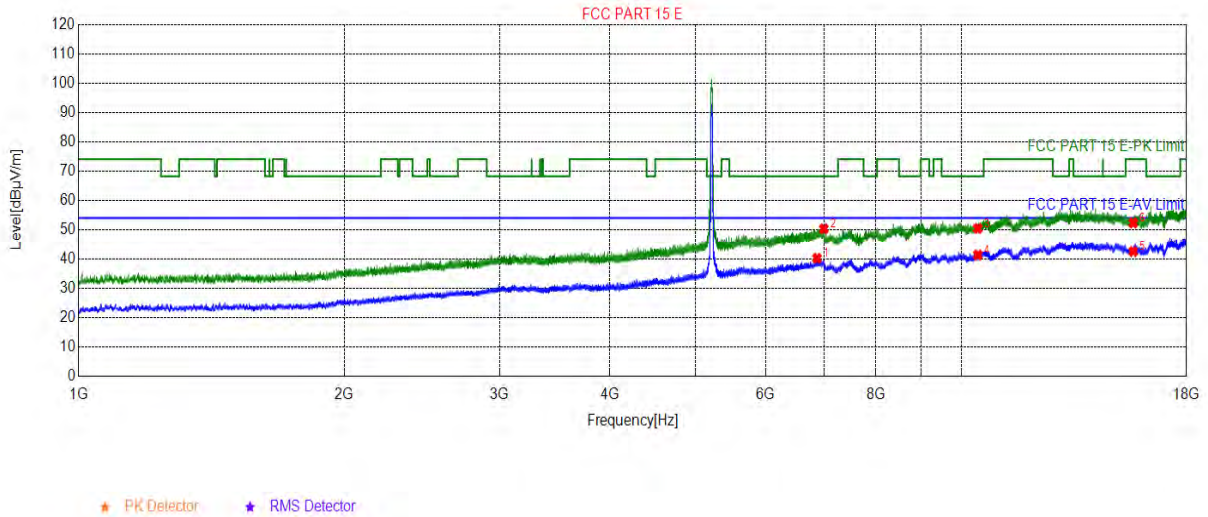
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### 802.11N20\_Channel 44

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6863.79	40.23	21.18	54.00	13.77	174	142	Horizontal
2	6986.79	50.30	21.53	68.20	17.90	198	250	Horizontal
3	10440.0	50.43	-2.03	68.20	17.77	184	9	Horizontal
4	10440.0	41.37	-2.03	54.00	12.63	185	2	Horizontal
5	15660.0	42.56	1.53	54.00	11.44	254	131	Horizontal
6	15660.0	52.30	1.53	74.00	21.70	265	231	Horizontal

#### Final Data List

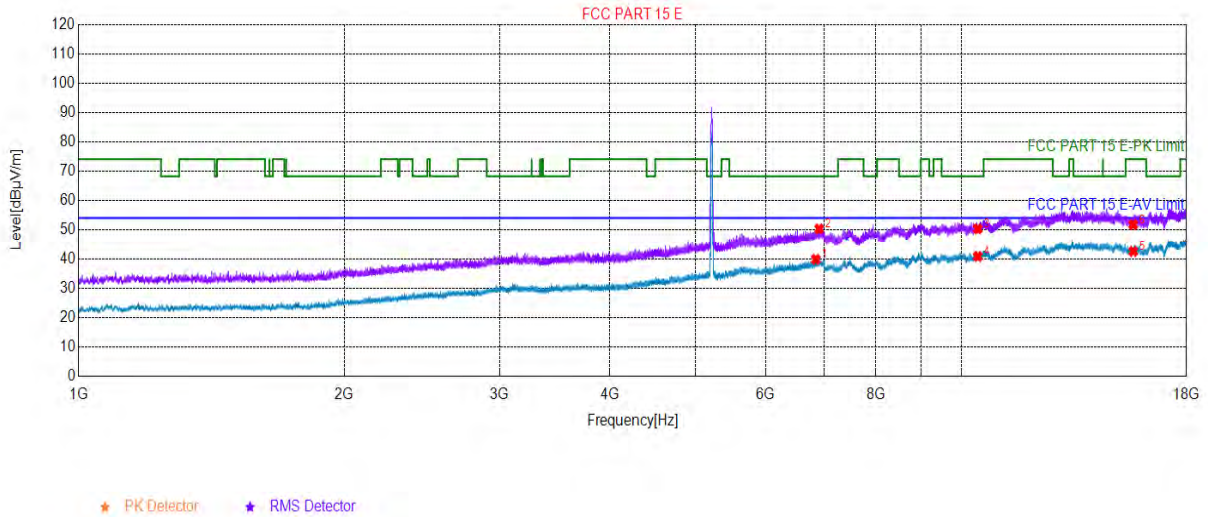


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### 802.11N20\_Channel 44

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6842.79	39.87	21.46	54.00	14.13	174	71	Vertical
2	6902.79	50.27	21.45	68.20	17.93	165	344	Vertical
3	10440.0	50.26	-2.03	68.20	17.94	184	253	Vertical
4	10440.0	40.87	-2.03	54.00	13.13	195	245	Vertical
5	15660.0	42.59	1.53	54.00	11.41	157	300	Vertical
6	15660.0	51.71	1.53	74.00	22.29	194	300	Vertical

#### Final Data List

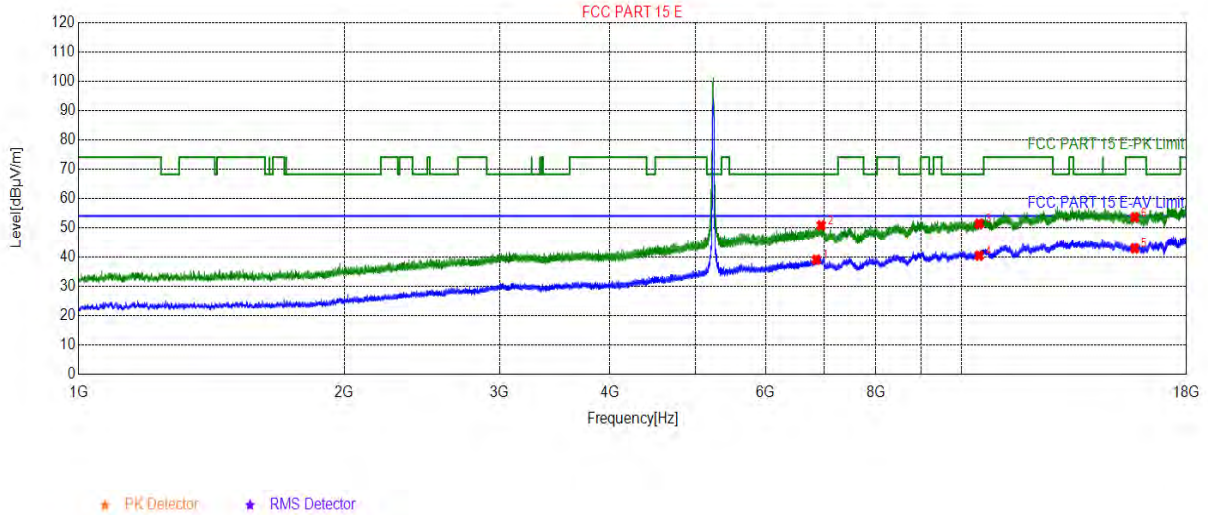
Final Data List table content is not visible in the provided image.



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**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]	Angle [°]	Polarity
1	6851.49	39.09	21.35	54.00	14.91	154	317	Horizontal
2	6938.49	50.76	21.47	68.20	17.44	174	247	Horizontal
3	10480.0	51.32	-1.93	68.20	16.88	198	68	Horizontal
4	10480.0	40.49	-1.93	54.00	13.51	165	112	Horizontal
5	15720.0	42.97	1.46	54.00	11.03	150	112	Horizontal
6	15720.0	53.51	1.46	74.00	20.49	198	50	Horizontal

**Final Data List**

*(This section is intentionally left blank in the provided image.)*



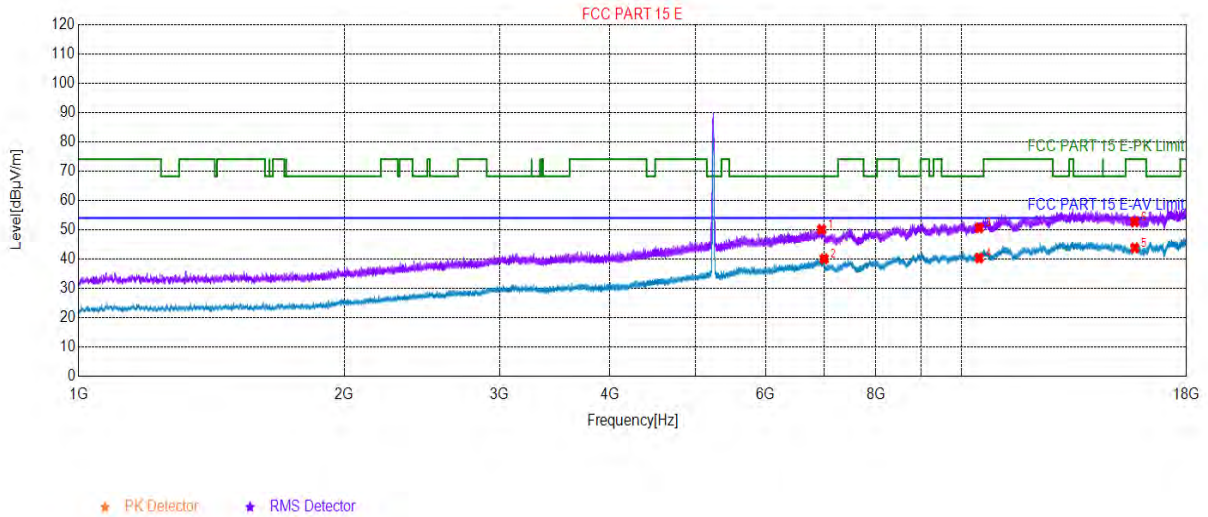
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**802.11N20\_Channel 48**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6946.29	50.07	21.31	68.20	18.13	252	250	Vertical
2	6991.59	40.06	21.60	54.00	13.94	241	242	Vertical
3	10480.0	50.61	-1.93	68.20	17.59	221	25	Vertical
4	10480.0	40.30	-1.93	54.00	13.70	189	2	Vertical
5	15720.0	43.77	1.46	54.00	10.23	174	79	Vertical
6	15720.0	52.65	1.46	74.00	21.35	195	12	Vertical

**Final Data List**

*(This section is intentionally left blank in the provided image)*



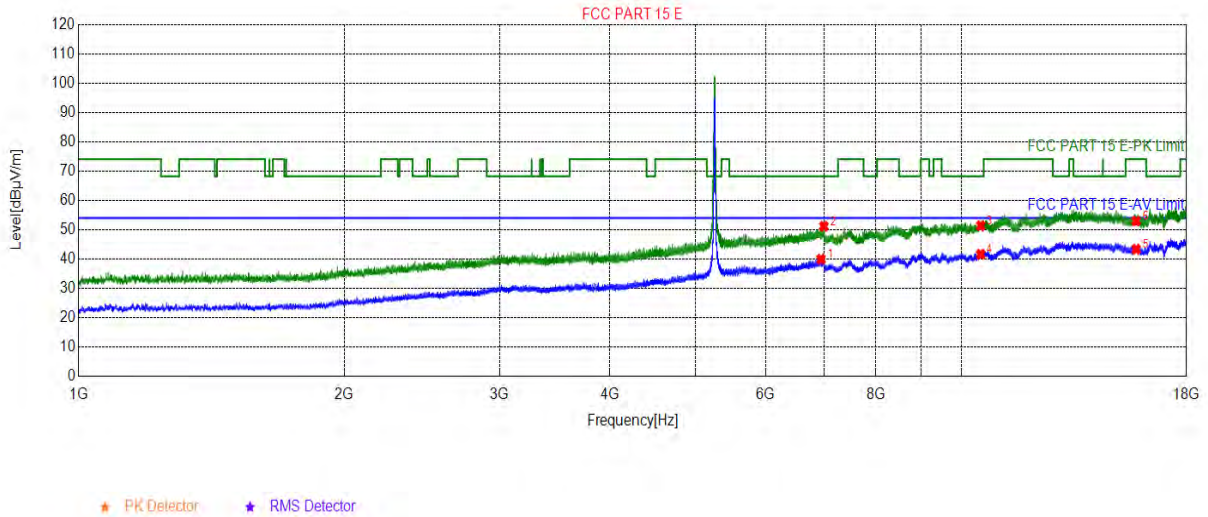
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### 802.11N20\_Channel 52

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6937.89	39.97	21.46	54.00	14.03	174	18	Horizontal
2	6986.49	51.15	21.52	68.20	17.05	189	306	Horizontal
3	10520.0	51.34	-1.91	68.20	16.86	175	267	Horizontal
4	10520.0	41.63	-1.91	54.00	12.37	184	236	Horizontal
5	15780.0	43.33	1.54	54.00	10.67	196	191	Horizontal
6	15780.0	52.95	1.54	74.00	21.05	202	267	Horizontal

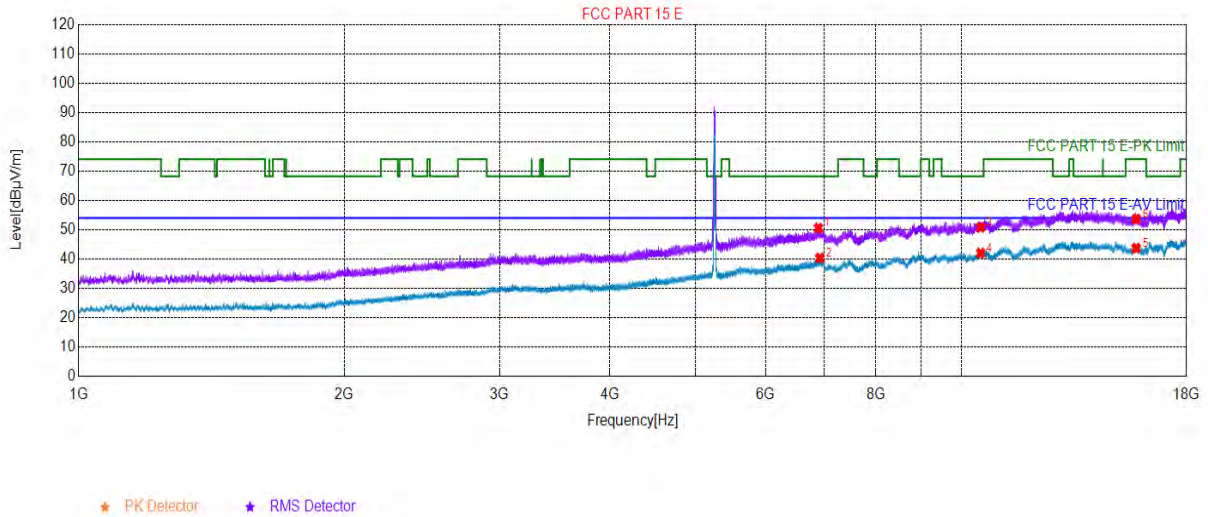
#### Final Data List



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802.11N20\_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6888.39	50.54	21.07	68.20	17.66	202	165	Vertical
2	6915.39	40.33	21.16	54.00	13.67	241	253	Vertical
3	10520.0	50.79	-1.91	68.20	17.41	198	101	Vertical
4	10520.0	42.00	-1.91	54.00	12.00	211	132	Vertical
5	15780.0	43.67	1.54	54.00	10.33	231	26	Vertical
6	15780.0	53.62	1.54	74.00	20.38	187	292	Vertical

Final Data List

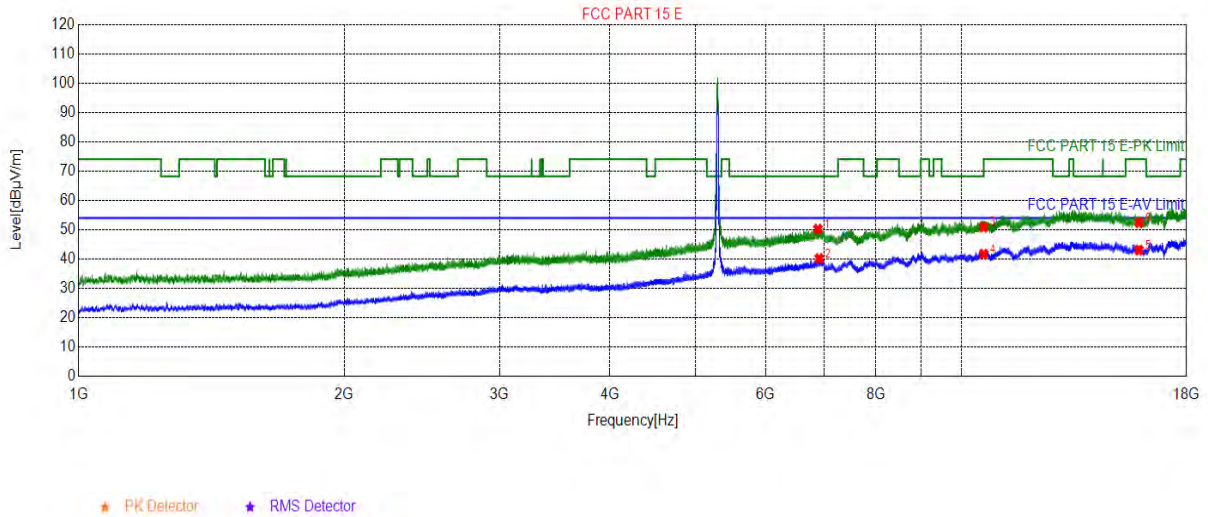
Final Data List content is not visible in the provided image.



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### 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]	Angle [°]	Polarity
1	6879.69	50.17	21.44	68.20	18.03	151	186	Horizontal
2	6900.69	40.16	21.53	54.00	13.84	174	26	Horizontal
3	10600.0	50.86	-1.66	74.00	23.14	198	337	Horizontal
4	10600.0	41.65	-1.66	54.00	12.35	175	115	Horizontal
5	15900.0	43.03	1.46	54.00	10.97	195	315	Horizontal
6	15900.0	52.40	1.46	74.00	21.60	187	291	Horizontal

#### Final Data List

Final Data List table content is not visible in the provided image.



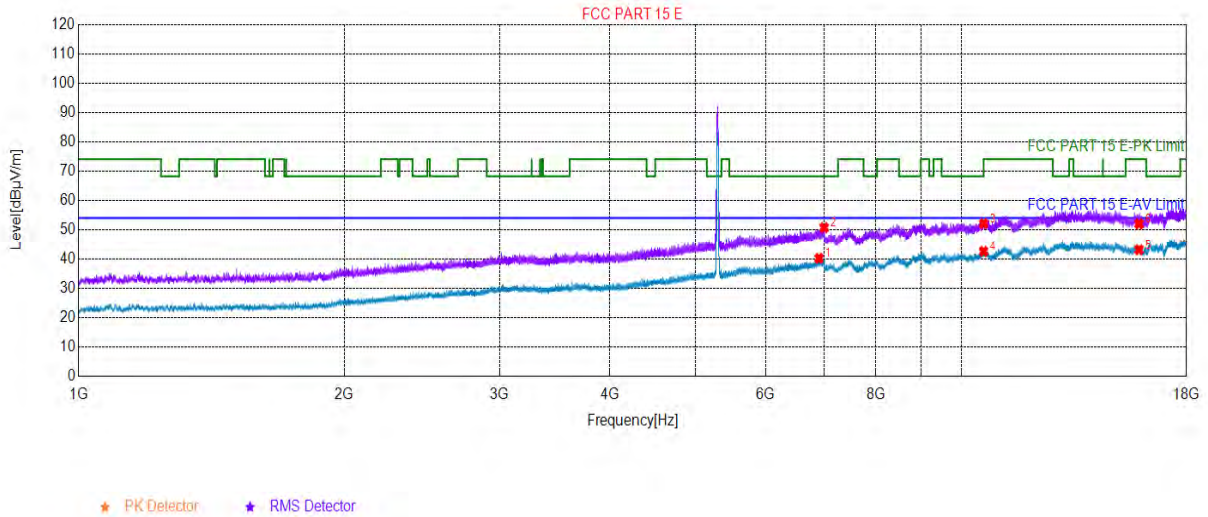
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802.11N20\_Channel 60

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6900.39	40.24	21.54	54.00	13.76	202	82	Vertical
2	6992.49	50.68	21.60	68.20	17.52	198	13	Vertical
3	10600.0	52.06	-1.66	74.00	21.94	184	194	Vertical
4	10600.0	42.60	-1.66	54.00	11.40	165	339	Vertical
5	15900.0	43.15	1.46	54.00	10.85	222	24	Vertical
6	15900.0	51.96	1.46	74.00	22.04	231	63	Vertical

Final Data List

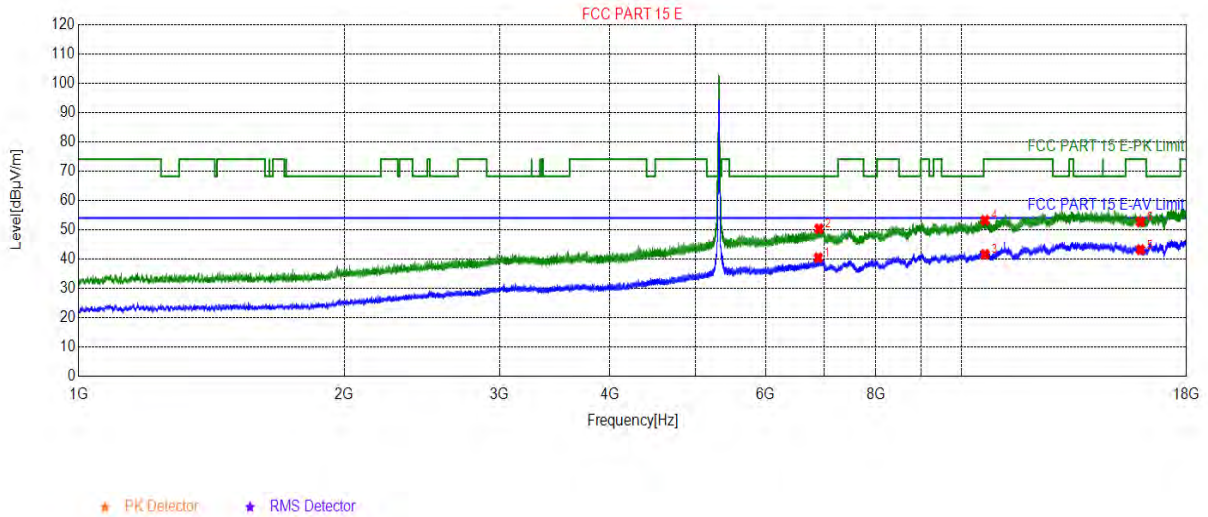


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### 802.11N20\_Channel 64

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6885.39	40.40	21.21	54.00	13.60	152	352	Horizontal
2	6898.89	50.30	21.49	68.20	17.90	174	352	Horizontal
3	10640.0	41.59	-1.85	54.00	12.41	145	332	Horizontal
4	10640.0	53.20	-1.85	74.00	20.80	198	355	Horizontal
5	15960.0	43.18	0.90	54.00	10.82	184	324	Horizontal
6	15960.0	52.65	0.90	74.00	21.35	150	339	Horizontal

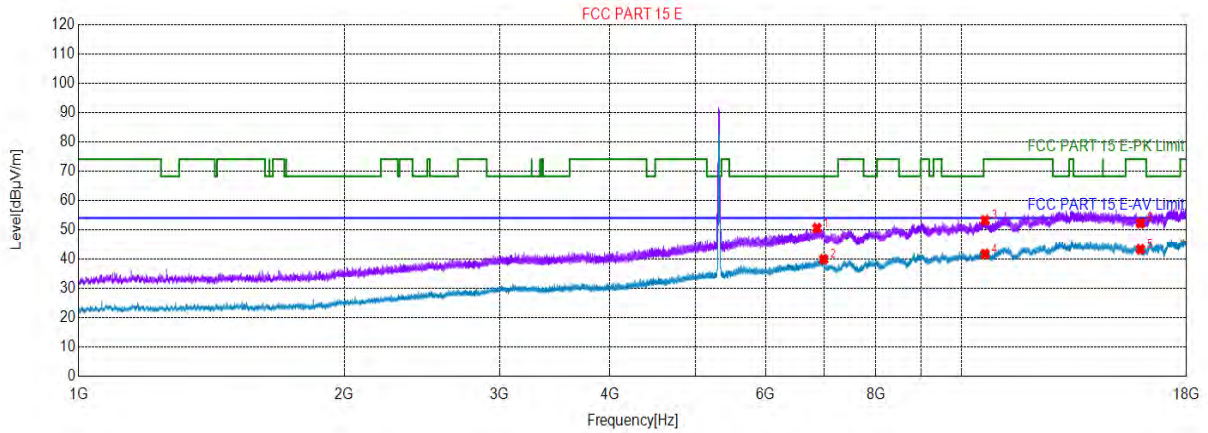
#### Final Data List



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**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]	Angle [°]	Polarity
1	6863.49	50.50	21.20	68.20	17.70	245	344	Vertical
2	6984.39	39.92	21.48	54.00	14.08	123	278	Vertical
3	10640.0	53.21	-1.85	74.00	20.79	222	240	Vertical
4	10640.0	41.73	-1.85	54.00	12.27	241	255	Vertical
5	15960.0	43.36	0.90	54.00	10.64	205	332	Vertical
6	15960.0	52.20	0.90	74.00	21.80	214	155	Vertical

**Final Data List**



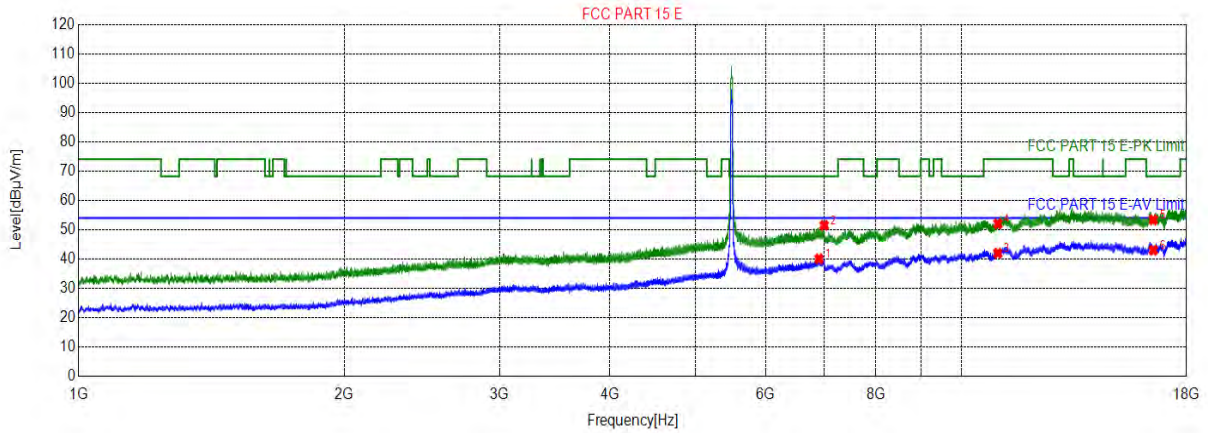
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### 802.11N20\_Channel 100

#### Test Graph



★ PK Detector    ★ RMS Detector

#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6899.19	40.05	21.51	54.00	13.95	178	273	Horizontal
2	6994.29	51.45	21.61	68.20	16.75	195	7	Horizontal
3	11000.0	41.96	-0.75	54.00	12.04	167	170	Horizontal
4	11000.0	51.99	-0.75	74.00	22.01	174	47	Horizontal
5	16500.0	53.35	0.43	68.20	14.85	158	316	Horizontal
6	16500.0	42.96	0.43	54.00	11.04	162	216	Horizontal

#### Final Data List

This section is reserved for the final data list, which is currently empty.

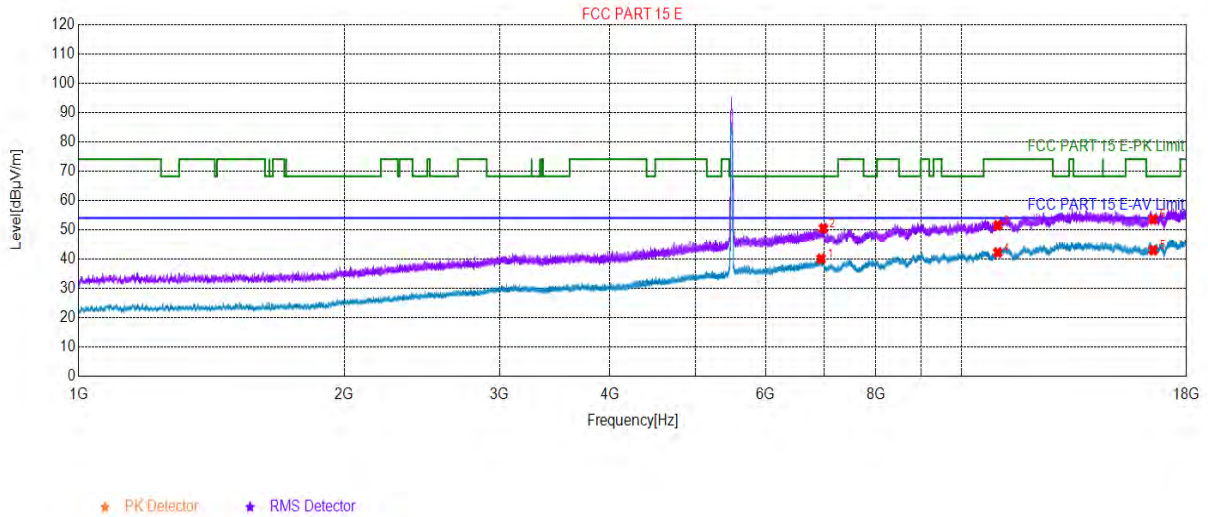


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**802.11N20\_Channel 100**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6938.19	40.07	21.47	54.00	13.93	177	113	Vertical
2	6980.19	50.43	21.39	68.20	17.77	197	343	Vertical
3	11000.0	51.46	-0.75	74.00	22.54	179	31	Vertical
4	11000.0	42.19	-0.75	54.00	11.81	168	325	Vertical
5	16500.0	42.99	0.43	54.00	11.01	137	278	Vertical
6	16500.0	53.52	0.43	68.20	14.68	152	332	Vertical

**Final Data List**

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