

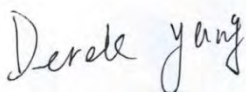
# FCC TEST REPORT

**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 Part 15, Subpart C  
**Date of Receipt:** 2021/4/21  
**Date of Test:** 2021/4/21 to 2021/6/8  
**Date of Issue:** 2021/6/10

<b>Test Result :</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



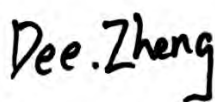

Derek Yang  
Wireless Laboratory Manager



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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-06-10		Original

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



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## 2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS	B
Duty Cycle	--	--	Clause 4.3	PASS	A
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS	A
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS	A
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	B
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS	B

Remark : 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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Shenzhen Branch

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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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### 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"/> 802.11B (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11G (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11N/AC/AX (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11N/AC/AX (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$ , where: $-f_c$ = "Operating Frequency" in MHz, $-N$ = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G : OFDM IEEE for 802.11N(HT20)/AC(VHT20)/AX(VHE20) : OFDM/OFDMA IEEE for 802.11N(HT40)/AC(VHT40)/AX(VHE40) : OFDM/OFDMA
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 7
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11B/G/N/AC/AX), <input checked="" type="checkbox"/> MIMO (for 802.11B/G/N/AC/AX): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	-5dBi(ANT2); -3.5dBi(ANT7);

#### Operation Frequency of each channel (802.11B/G/N HT20 AC VHT20 AX VHE20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

#### Operation Frequency of each channel (802.11N HT40 AC VHT40 AX VHE40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				



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**Remark:**

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

Channel	Frequency for 802.11B/G/N (HT20)/AC(VHT20)/AX(VHE20)	Frequency for 802.11N (HT40)/AC(VHT40)/AX(VHE40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz

### 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.

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -5dBi(ANT2); -3.5dBi(ANT7).</p>	



## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	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.			
Test Procedure:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>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.</p> <p>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,</p> <p>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. 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.</p>		

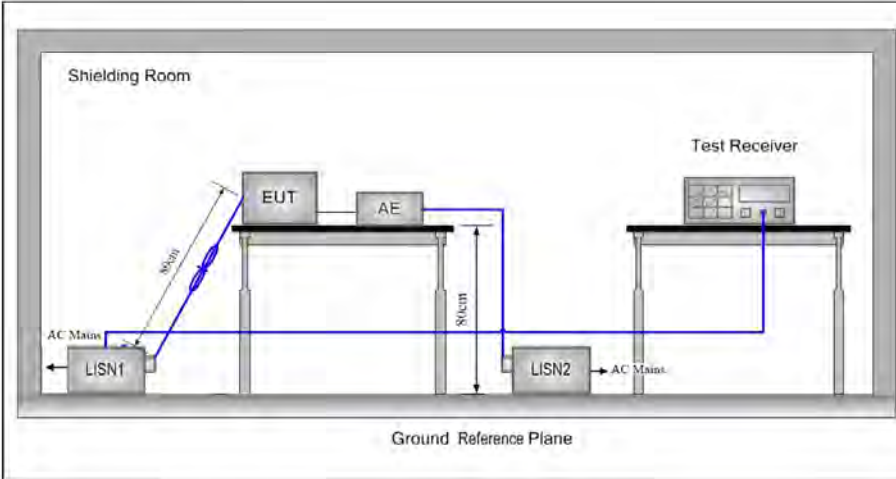


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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

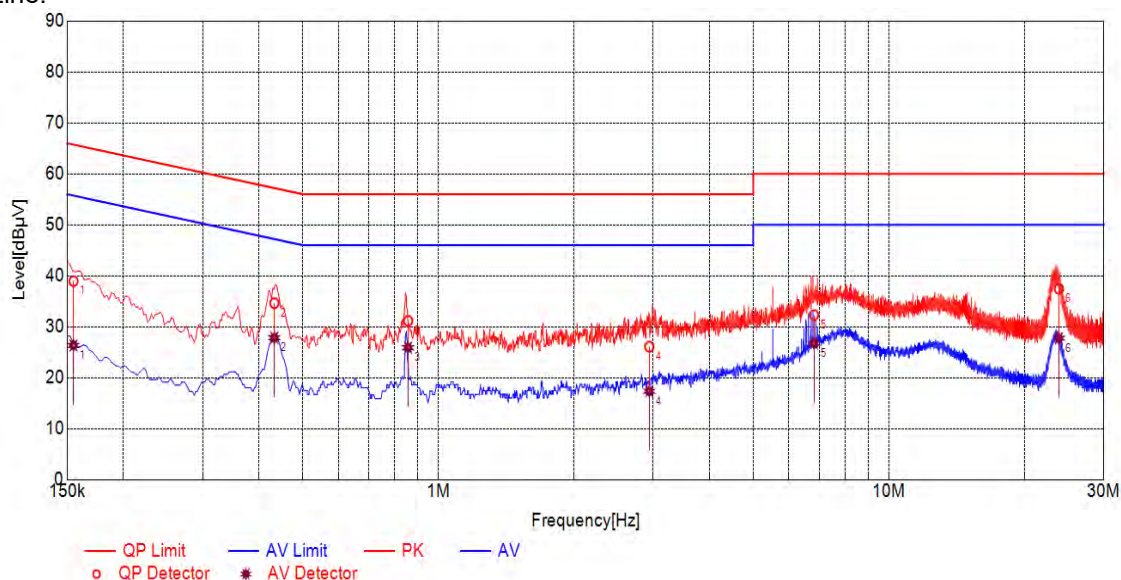
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



### 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	0.1550	10.10	38.94	65.73	26.79	26.33	55.73	29.40
2	0.4325	10.10	34.63	57.20	22.57	27.85	47.20	19.35
3	0.8570	10.10	31.16	56.00	24.84	25.88	46.00	20.12
4	2.9397	10.10	26.10	56.00	29.90	17.35	46.00	28.65
5	6.8205	10.10	32.30	60.00	27.70	26.73	50.00	23.27
6	23.8503	10.11	37.43	60.00	22.57	27.75	50.00	22.25

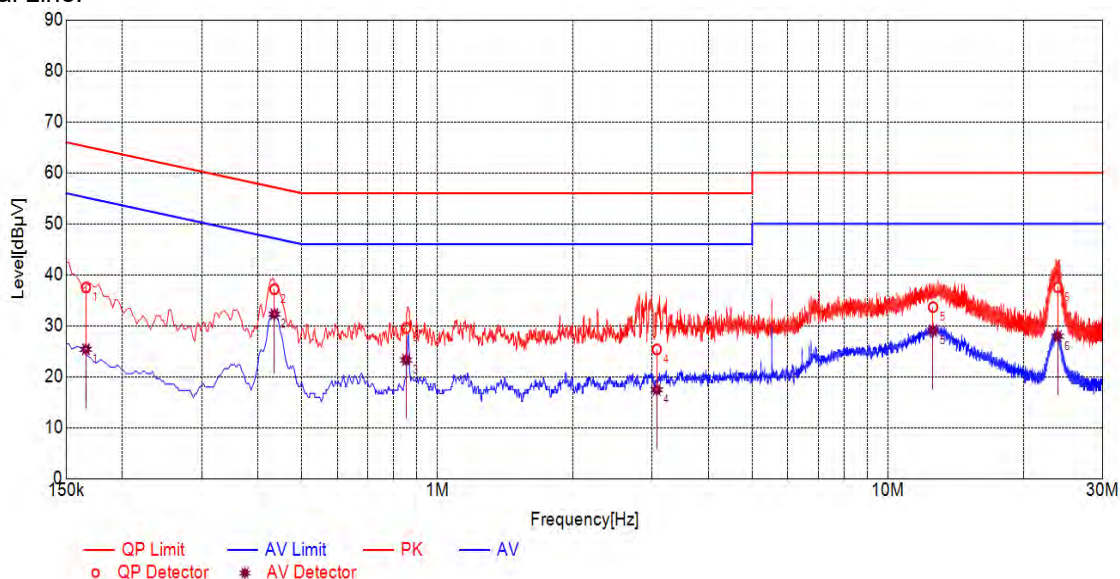


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Neutral Line:



### 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]
1	0.1660	10.10	37.50	65.16	27.66	25.38	55.16	29.78
2	0.4348	10.10	37.15	57.16	20.01	32.29	47.16	14.87
3	0.8526	10.10	29.56	56.00	26.44	23.30	46.00	22.70
4	3.0702	10.10	25.35	56.00	30.65	17.43	46.00	28.57
5	12.6005	10.11	33.66	60.00	26.34	29.10	50.00	20.90
6	23.8370	10.11	37.53	60.00	22.47	27.94	50.00	22.06

Remark:

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

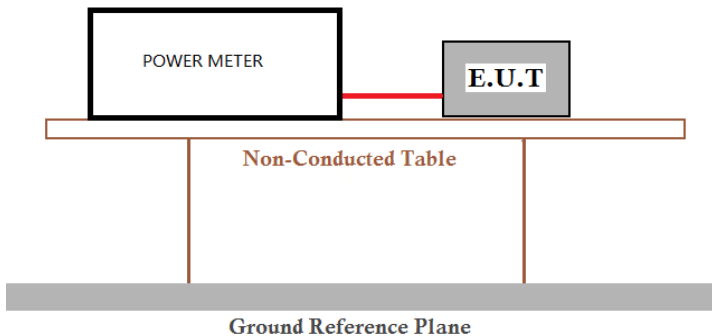
The detailed test data see: **Appendix**



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
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 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AC(VHT20)/AX(VHE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/ AC(VHT40)/AX(VHE40).
Limit:	30dBm
Test Results:	Pass

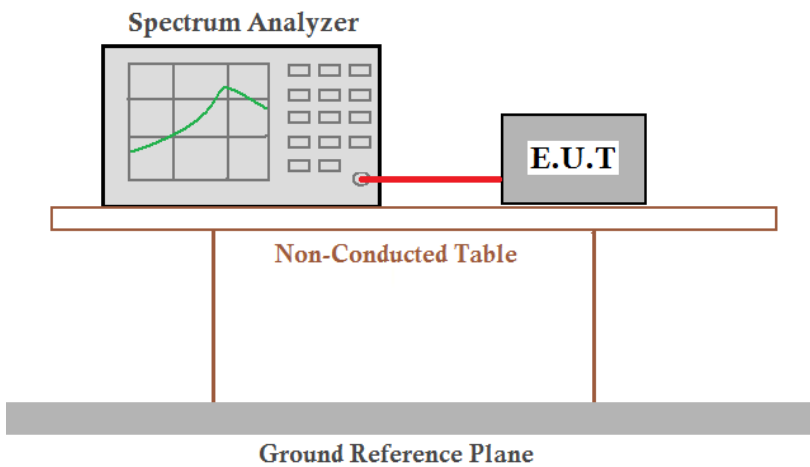
The detailed test data see: **Appendix**



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### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
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 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AC(VHT20)/AX(VHE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/ AC(VHT40)/AX(VHE40).
Limit:	≥ 500 kHz
Test Results:	Pass

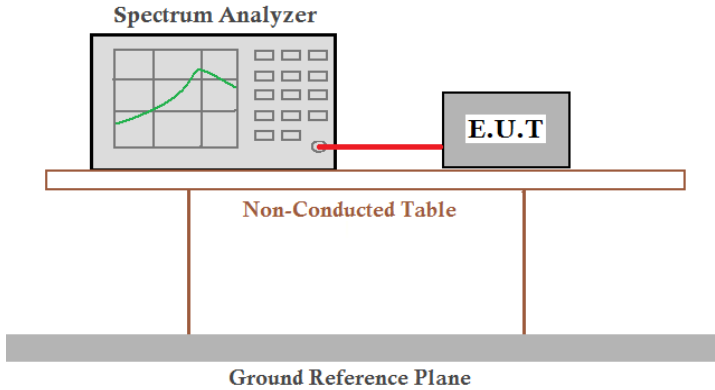
The detailed test data see: **Appendix**



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### 4.6 Power Spectral Density

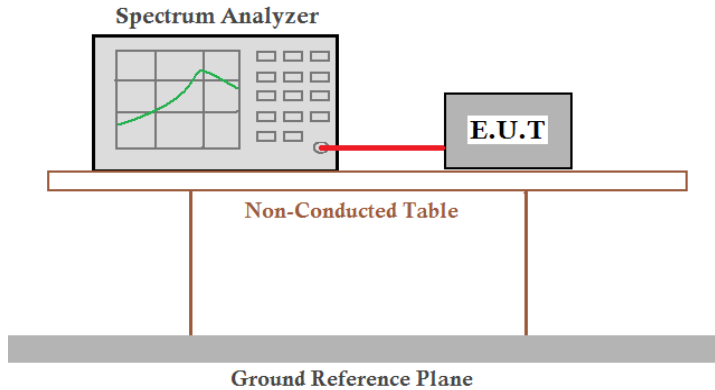
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AC(VHT20)/AX(VHE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/ AC(VHT40)/AX(VHE40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

The detailed test data see: **Appendix**



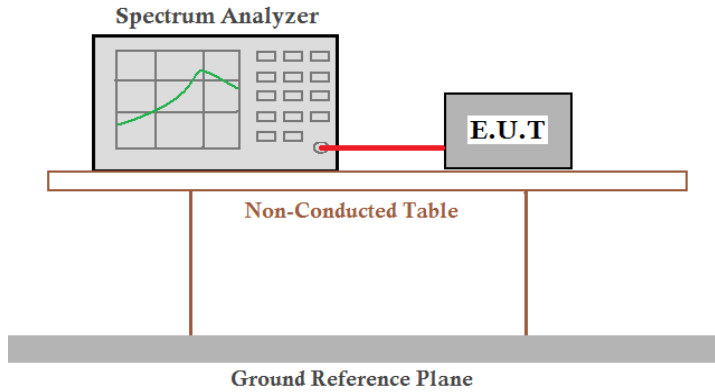
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### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
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 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AC(VHT20)/AX(VHE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/ AC(VHT40)/AX(VHE40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix**

## 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
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 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/AX(HE40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix**



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## 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz (DC $\geq$ 0.98) $\geq$ 1/T (DC<0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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### Test Setup:

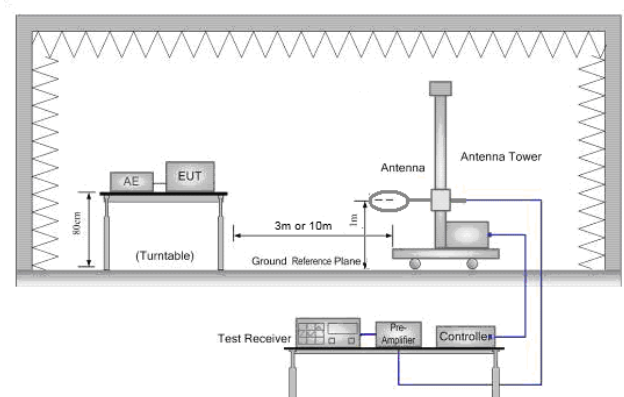


Figure 1. Below 30MHz

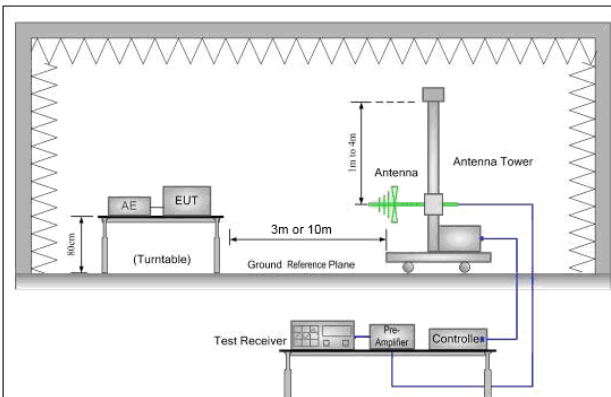


Figure 2. 30MHz to 1GHz

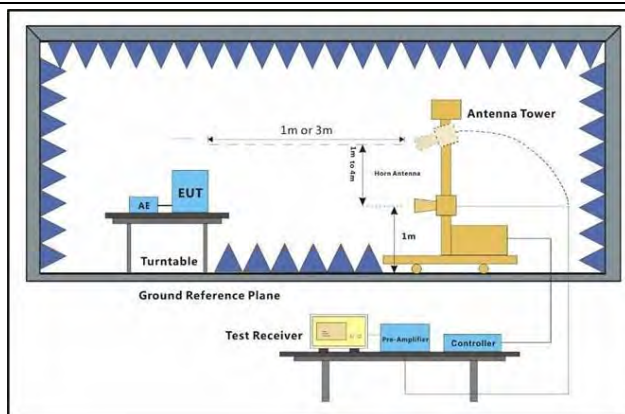


Figure 3. Above 1 GHz

### Test Procedure:

- For below 1GHz, 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.
- For above 1GHz, 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
- 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.
- 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.
- Use the following spectrum analyzer settings:
  - Span shall wide enough to fully capture the emission being measured;
  - Set RBW=100 kHz for  $f < 1$  GHz, RBW=1MHz for  $f > 1$  GHz ; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
  - For average measurement: use duty cycle correction factor method per 15.35(c).  
Duty cycle = On time/100 milliseconds



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	<p>On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math></p> <p>Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.</p> <p>Average Emission Level = Peak Emission Level + <math>20 \cdot \log(\text{Duty cycle})</math></p> <p>f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>j. 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.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G;</p> <p>6.5Mbps of rate is the worst case of 802.11N(HT20)/AC(VHT20)/AX(VHE20);</p> <p>13.5Mbps of rate is the worst case of 802.11N(HT40)/AC(VHT40)/AX(VHE40).</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B 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 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (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:			

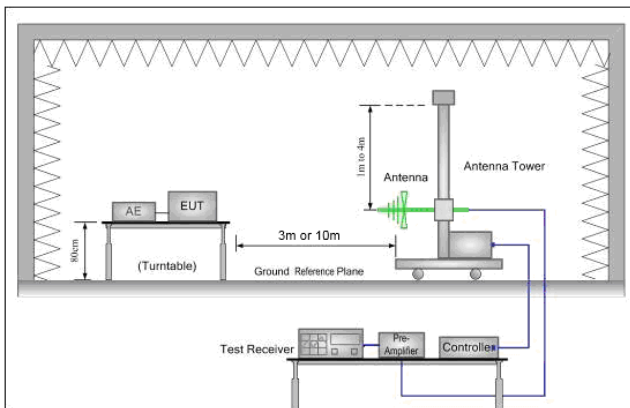


Figure 1. 30MHz to 1GHz

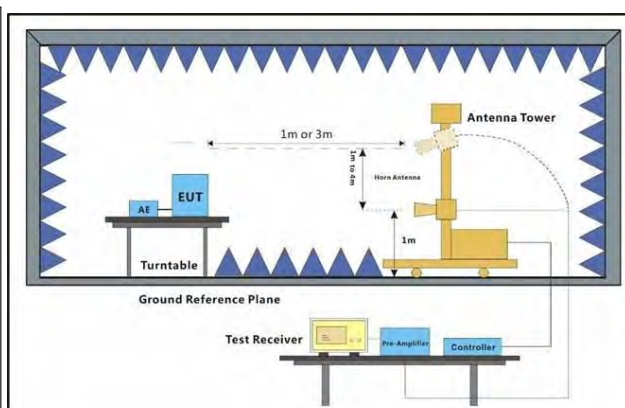


Figure 2. Above 1 GHz

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Test Procedure:	<ul style="list-style-type: none"> <li>a. For below 1GHz, 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>b. For above 1GHz, 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>c. 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>d. 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>e. 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>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. 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>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. 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>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20)/AC(VHT20)/AX(VHE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/ AC(VHT40)/AX(VHE40). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

The detailed test data see: **Appendix**



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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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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



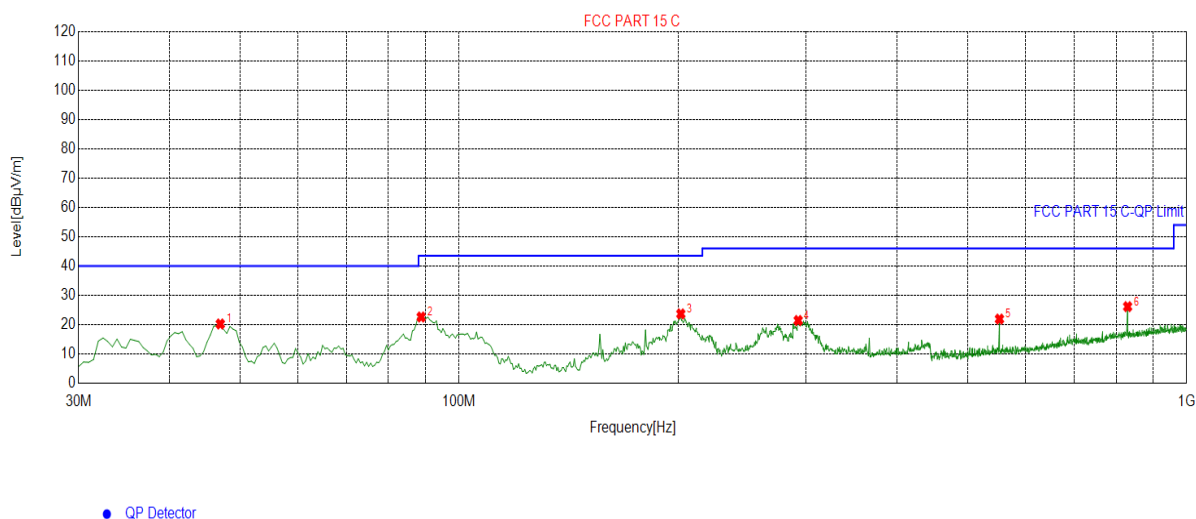
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### Radiated Spurious Emissions

#### Radiated emission below 1GHz

#### Charge + Transmitting Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.9835	20.23	-21.39	40.00	19.77	252	229	Horizontal
2	88.7144	22.61	-24.85	43.50	20.89	174	271	Horizontal
3	201.775	23.67	-22.38	43.50	19.83	195	218	Horizontal
4	292.516	21.42	-19.46	46.00	24.58	175	54	Horizontal
5	553.091	21.91	-13.03	46.00	24.09	162	279	Horizontal
6	829.679	26.15	-8.70	46.00	19.85	145	286	Horizontal

#### Final Data List

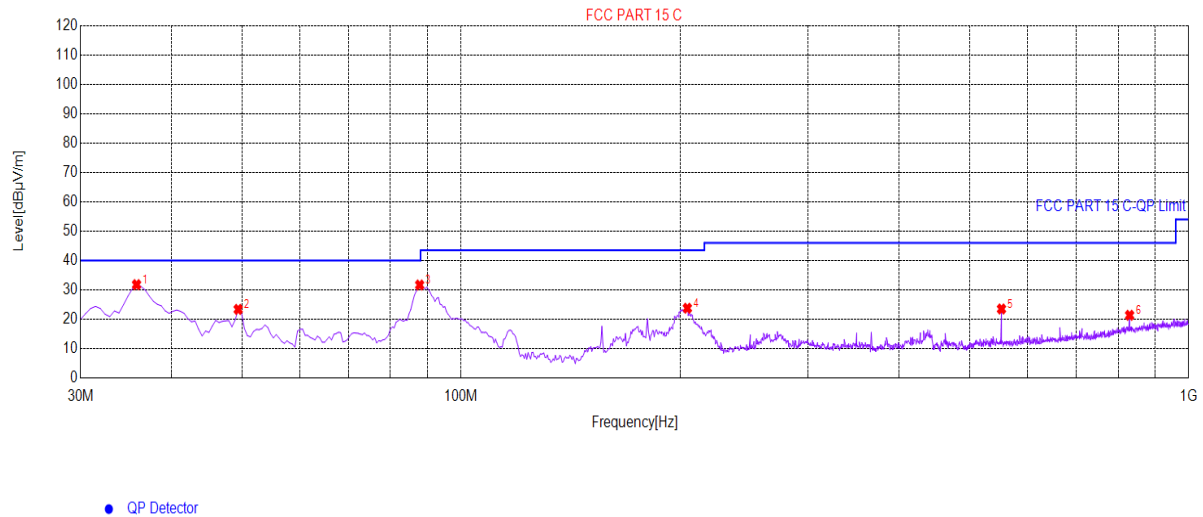


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### Test Graph



### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	31.78	-23.68	40.00	8.22	252	353	Vertical
2	49.4097	23.37	-21.37	40.00	16.63	174	353	Vertical
3	87.7439	31.66	-25.12	40.00	8.34	165	76	Vertical
4	204.687	23.76	-22.16	43.50	19.74	184	222	Vertical
5	553.091	23.51	-13.03	46.00	22.49	164	46	Vertical
6	829.679	21.36	-8.70	46.00	24.64	184	7	Vertical

### Final Data List



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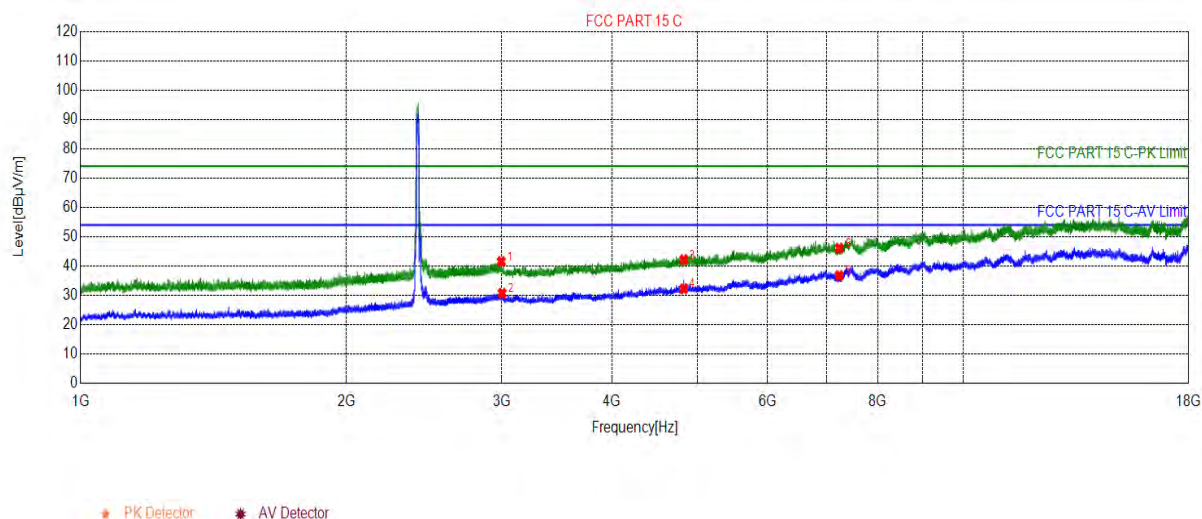
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### Transmitter emission above 1GHz

#### 802.11B\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2996.89	41.49	10.71	74.00	32.51	187	159	Horizontal
2	3003.00	30.69	-21.18	54.00	23.31	198	172	Horizontal
3	4824.00	42.16	-15.31	74.00	31.84	165	201	Horizontal
4	4824.00	32.23	-15.31	54.00	21.77	177	289	Horizontal
5	7236.00	36.73	-8.82	54.00	17.27	182	100	Horizontal
6	7236.00	46.09	-8.82	74.00	27.91	194	318	Horizontal

#### Final Data List



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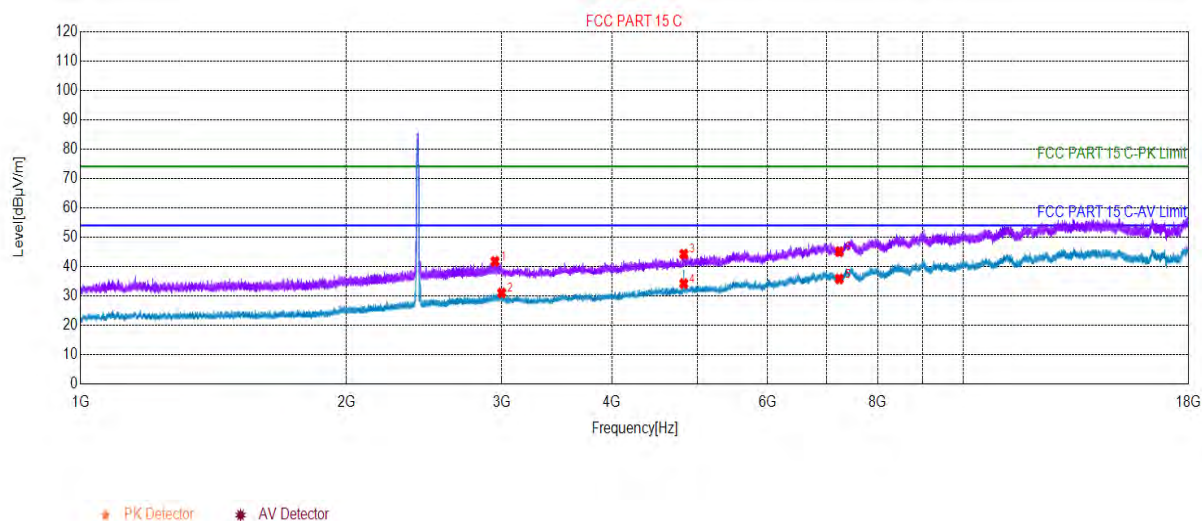
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### 802.11B\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.09	41.75	10.55	74.00	32.25	188	45	Vertical
2	2999.80	30.98	10.80	54.00	23.02	174	7	Vertical
3	4824.00	44.20	-15.31	74.00	29.80	169	79	Vertical
4	4824.00	34.16	-15.31	54.00	19.84	158	51	Vertical
5	7236.00	35.77	-8.82	54.00	18.23	192	51	Vertical
6	7236.00	45.00	-8.82	74.00	29.00	210	299	Vertical

#### Final Data List



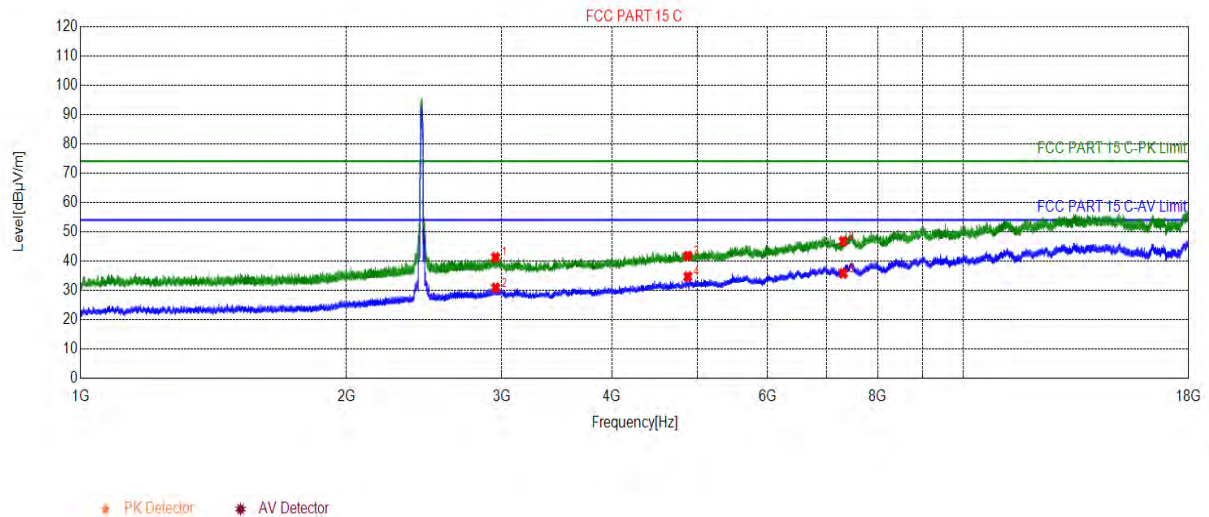
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### 802.11B\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.69	41.23	10.56	74.00	32.77	174	350	Horizontal
2	2952.69	30.86	10.55	54.00	23.14	158	262	Horizontal
3	4874.00	41.72	-15.09	74.00	32.28	169	42	Horizontal
4	4874.00	34.65	-15.09	54.00	19.35	177	42	Horizontal
5	7311.00	35.80	-8.93	54.00	18.20	185	127	Horizontal
6	7311.00	46.73	-8.93	74.00	27.27	150	127	Horizontal

#### Final Data List



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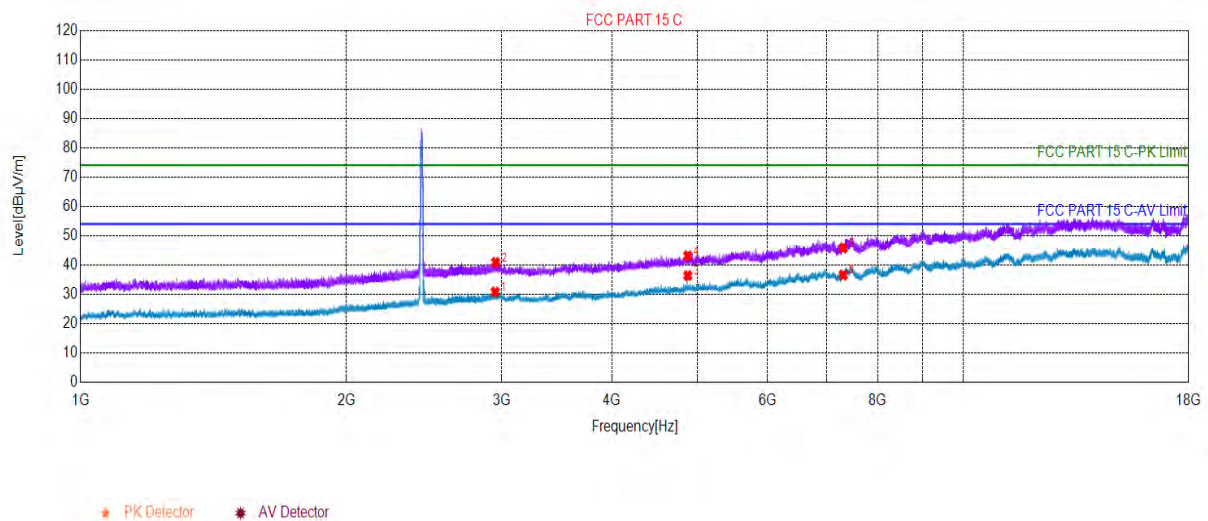
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### 802.11B\_Channel 6 MIMO

#### Test Graph



#### Suspected List

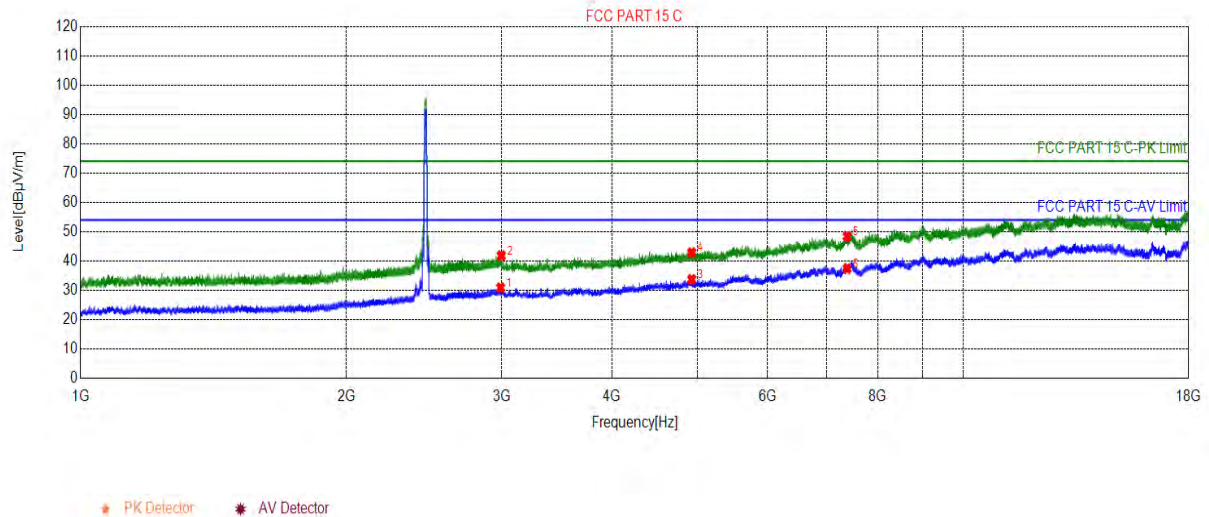
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.19	30.79	10.56	54.00	23.21	215	249	Vertical
2	2952.79	40.85	10.55	74.00	33.15	198	96	Vertical
3	4874.00	36.39	-15.09	54.00	17.61	201	70	Vertical
4	4874.00	43.12	-15.09	74.00	30.88	157	2	Vertical
5	7311.00	45.82	-8.93	74.00	28.18	168	217	Vertical
6	7311.00	36.60	-8.93	54.00	17.40	194	70	Vertical

#### Final Data List



### 802.11B\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2991.59	30.86	10.54	54.00	23.14	187	109	Horizontal
2	2996.99	41.81	10.71	74.00	32.19	196	70	Horizontal
3	4924.00	33.71	-14.74	54.00	20.29	158	41	Horizontal
4	4924.00	42.87	-14.74	74.00	31.13	164	303	Horizontal
5	7386.00	48.38	-7.78	74.00	25.62	193	230	Horizontal
6	7386.00	37.41	-7.78	54.00	16.59	151	318	Horizontal

#### Final Data List



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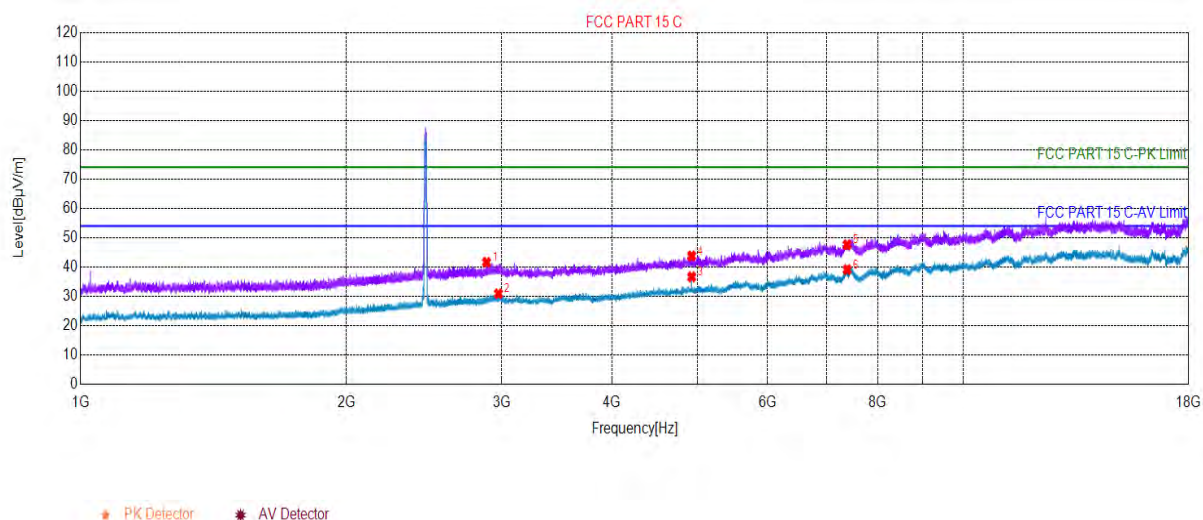
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### 802.11B\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2883.79	41.62	9.91	74.00	32.38	213	235	Vertical
2	2974.69	30.90	10.43	54.00	23.10	223	222	Vertical
3	4924.00	36.63	-14.74	54.00	17.37	236	71	Vertical
4	4924.00	43.78	-14.74	74.00	30.22	254	71	Vertical
5	7386.00	47.60	-7.78	74.00	26.40	175	158	Vertical
6	7386.00	39.11	-7.78	54.00	14.89	198	71	Vertical

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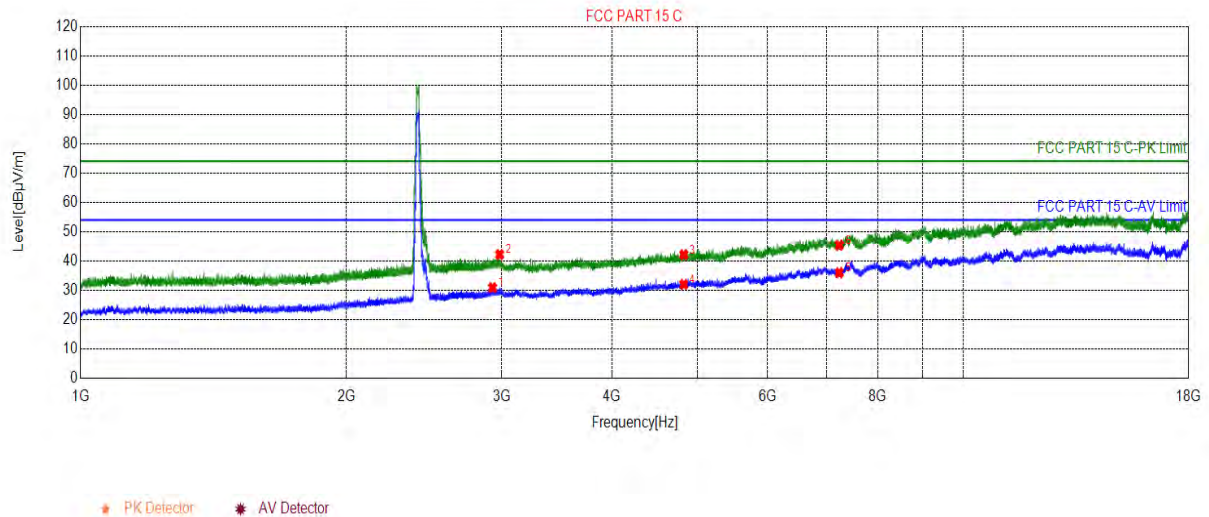
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### 802.11G\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2928.89	30.89	10.53	54.00	23.11	175	358	Horizontal
2	2983.99	42.20	10.52	74.00	31.80	152	325	Horizontal
3	4824.00	42.18	-15.31	74.00	31.82	163	332	Horizontal
4	4824.00	32.02	-15.31	54.00	21.98	158	230	Horizontal
5	7236.00	36.00	-8.82	54.00	18.00	169	100	Horizontal
6	7236.00	45.42	-8.82	74.00	28.58	213	70	Horizontal

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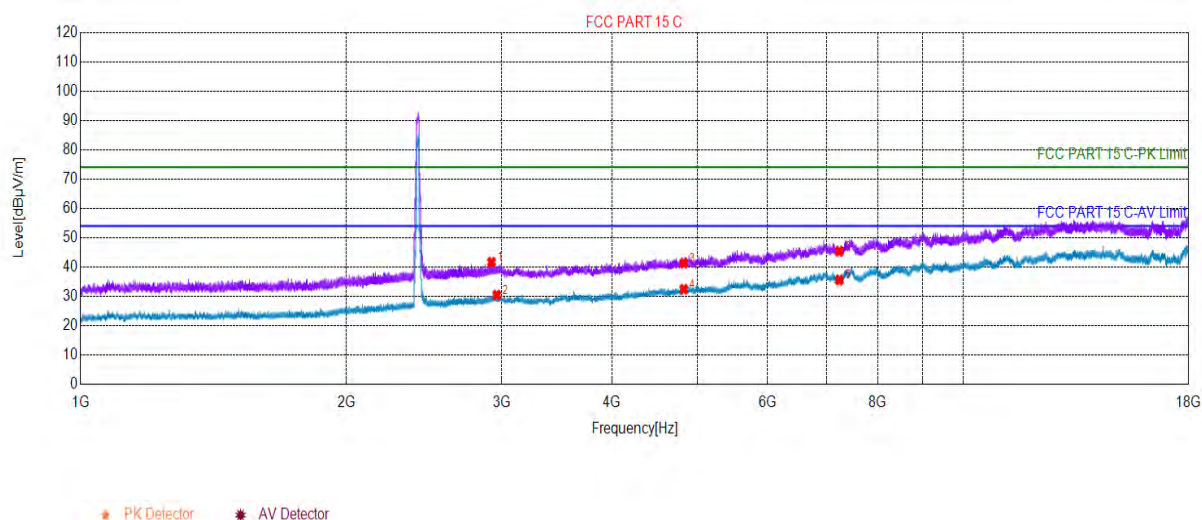
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### 802.11G\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.99	41.67	10.42	74.00	32.33	215	33	Vertical
2	2961.79	30.43	10.48	54.00	23.57	198	337	Vertical
3	4824.00	41.35	-15.31	74.00	32.65	175	245	Vertical
4	4824.00	32.44	-15.31	54.00	21.56	167	304	Vertical
5	7236.00	35.55	-8.82	54.00	18.45	184	333	Vertical
6	7236.00	45.37	-8.82	74.00	28.63	152	245	Vertical

#### Final Data List



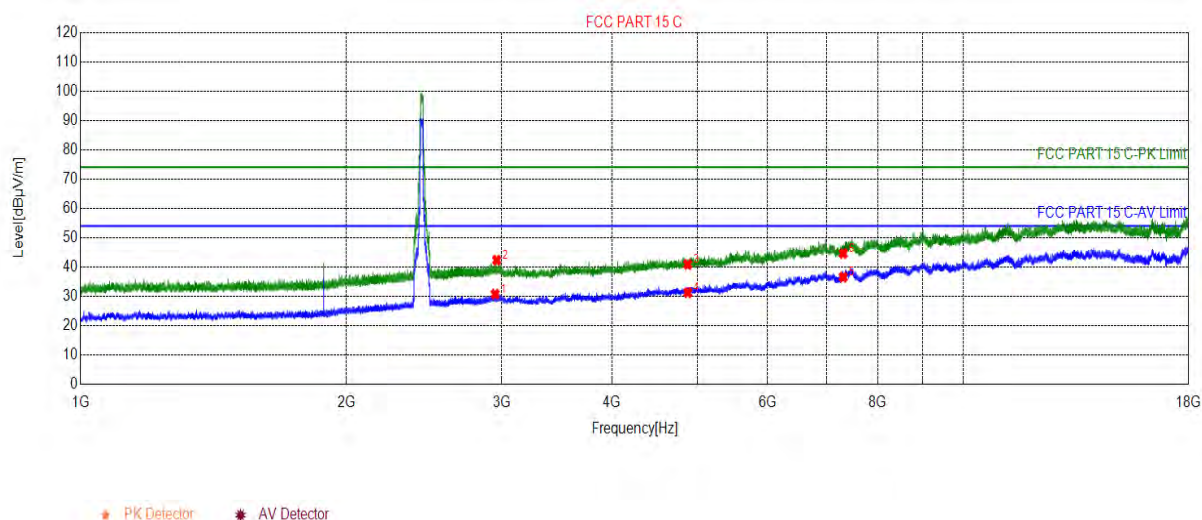
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### 802.11G\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.19	30.75	10.56	54.00	23.25	198	224	Horizontal
2	2961.49	42.33	10.49	74.00	31.67	214	110	Horizontal
3	4874.00	40.87	-15.09	74.00	33.13	254	101	Horizontal
4	4874.00	31.27	-15.09	54.00	22.73	169	359	Horizontal
5	7311.00	36.56	-8.93	54.00	17.44	174	101	Horizontal
6	7311.00	44.62	-8.93	74.00	29.38	185	71	Horizontal

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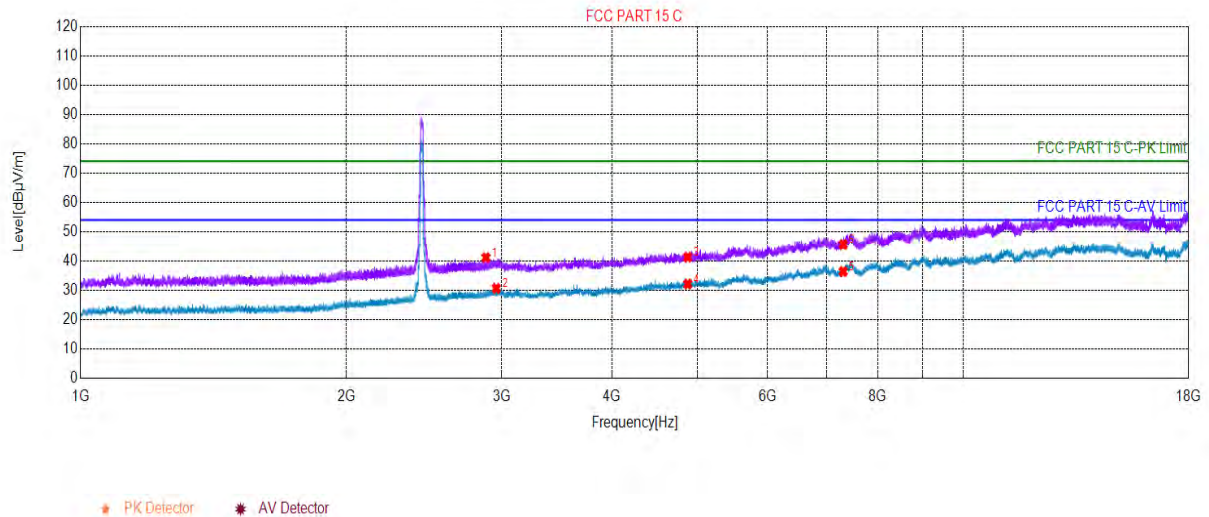
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### 802.11G\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2879.29	41.13	9.90	74.00	32.87	178	120	Vertical
2	2957.79	30.65	10.53	54.00	23.35	196	358	Vertical
3	4874.00	41.31	-15.09	74.00	32.69	154	231	Vertical
4	4874.00	32.13	-15.09	54.00	21.87	182	70	Vertical
5	7311.00	36.40	-8.93	54.00	17.60	199	318	Vertical
6	7311.00	45.64	-8.93	74.00	28.36	236	231	Vertical

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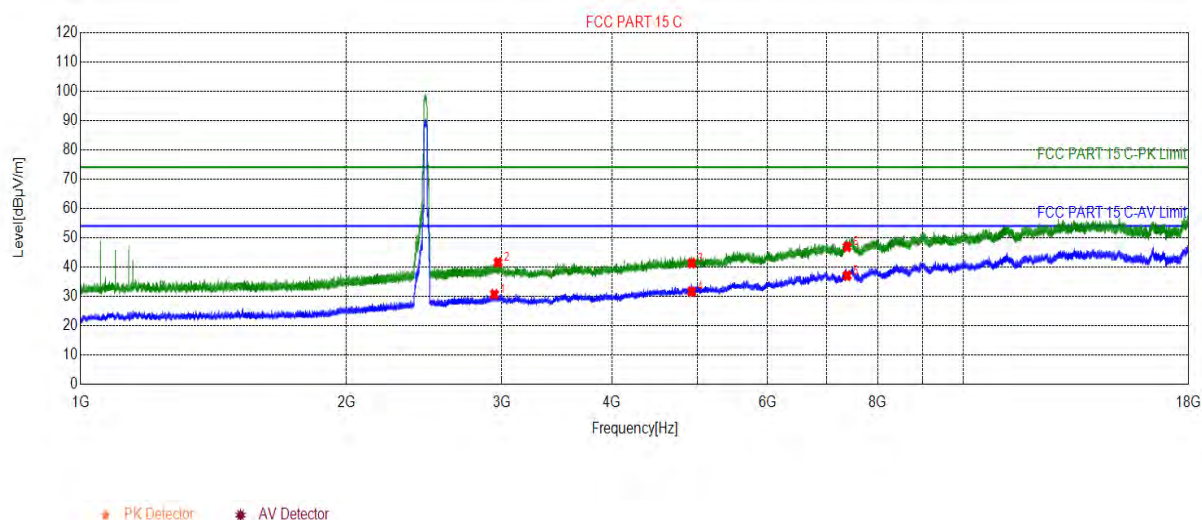
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### 802.11G\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.49	30.66	10.52	54.00	23.34	156	239	Horizontal
2	2971.29	41.54	10.36	74.00	32.46	241	350	Horizontal
3	4924.00	41.32	-14.74	74.00	32.68	158	12	Horizontal
4	4924.00	31.60	-14.74	54.00	22.40	175	199	Horizontal
5	7386.00	37.04	-7.78	54.00	16.96	196	214	Horizontal
6	7386.00	46.90	-7.78	74.00	27.10	182	108	Horizontal

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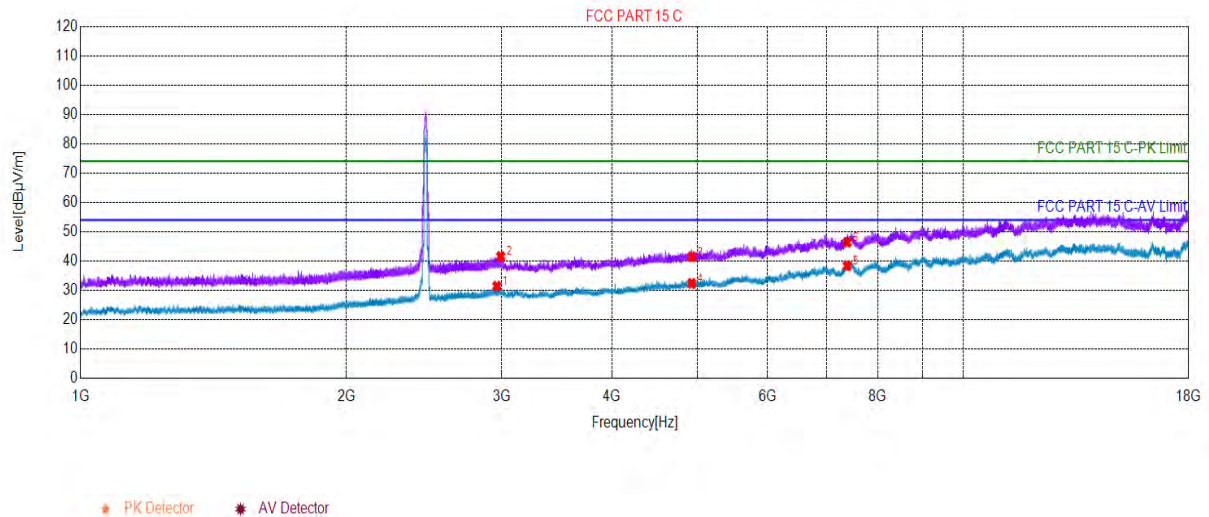
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### 802.11G\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2962.29	31.40	10.47	54.00	22.60	187	307	Vertical
2	2992.19	41.56	10.56	74.00	32.44	157	295	Vertical
3	4924.00	41.47	-14.74	74.00	32.53	168	248	Vertical
4	4924.00	32.36	-14.74	54.00	21.64	159	56	Vertical
5	7386.00	38.33	-7.78	54.00	15.67	181	129	Vertical
6	7386.00	46.36	-7.78	74.00	27.64	179	333	Vertical

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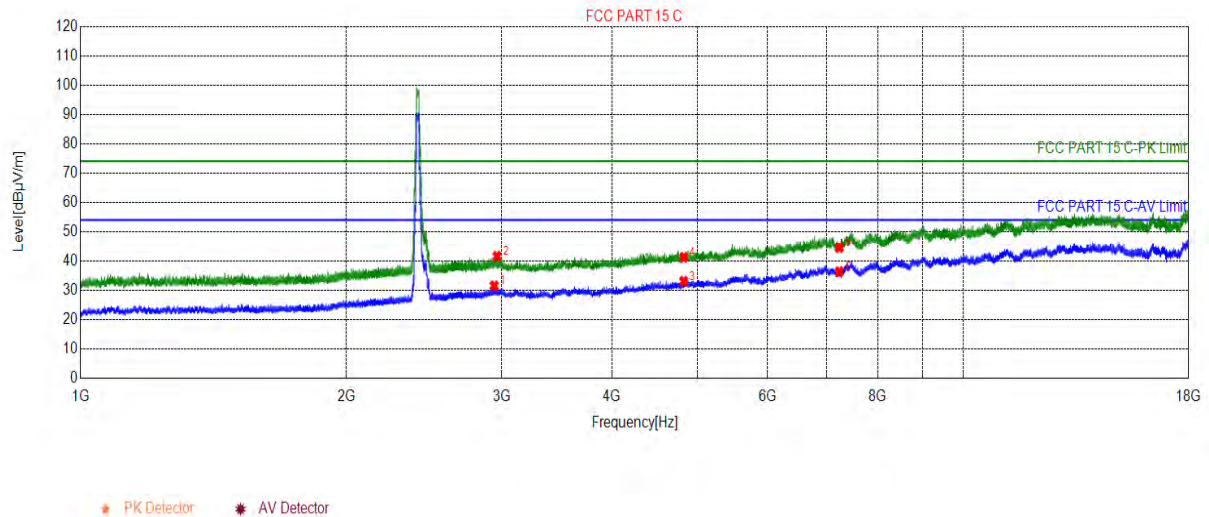
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### 802.11N20\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2941.49	31.58	10.51	54.00	22.42	175	109	Horizontal
2	2963.49	41.62	10.45	74.00	32.38	164	312	Horizontal
3	4824.00	33.12	-15.31	54.00	20.88	158	41	Horizontal
4	4824.00	41.25	-15.31	74.00	32.75	192	246	Horizontal
5	7236.00	44.55	-8.82	74.00	29.45	178	56	Horizontal
6	7236.00	36.39	-8.82	54.00	17.61	156	246	Horizontal

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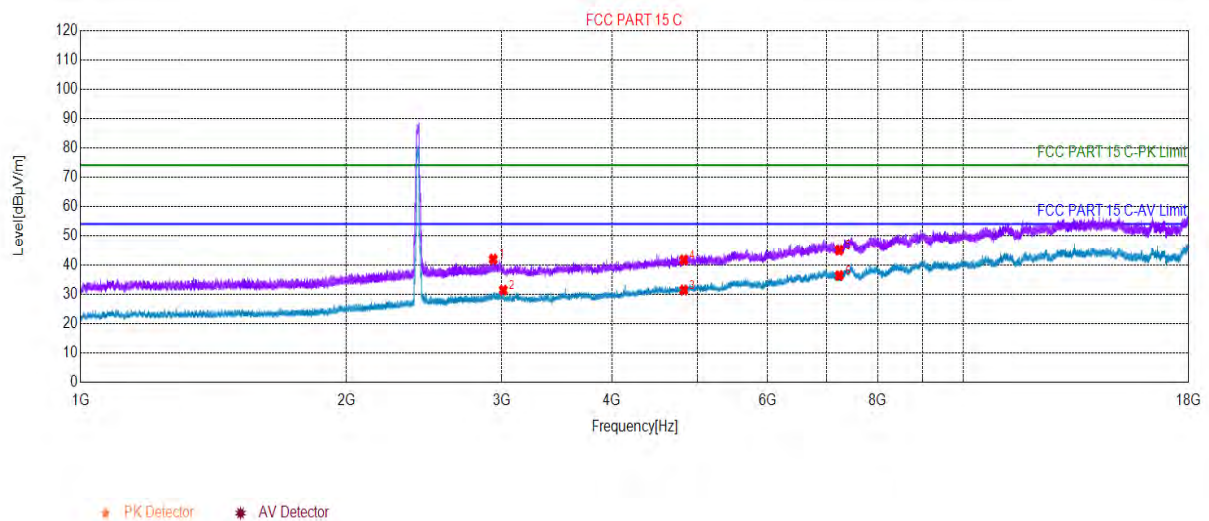
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### 802.11N20\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.19	41.98	10.53	74.00	32.02	188	300	Vertical
2	3012.00	31.44	-21.16	54.00	22.56	155	303	Vertical
3	4824.00	31.44	-15.31	54.00	22.56	165	113	Vertical
4	4824.00	41.75	-15.31	74.00	32.25	174	56	Vertical
5	7236.00	45.05	-8.82	74.00	28.95	256	56	Vertical
6	7236.00	36.39	-8.82	54.00	17.61	198	26	Vertical

#### Final Data List



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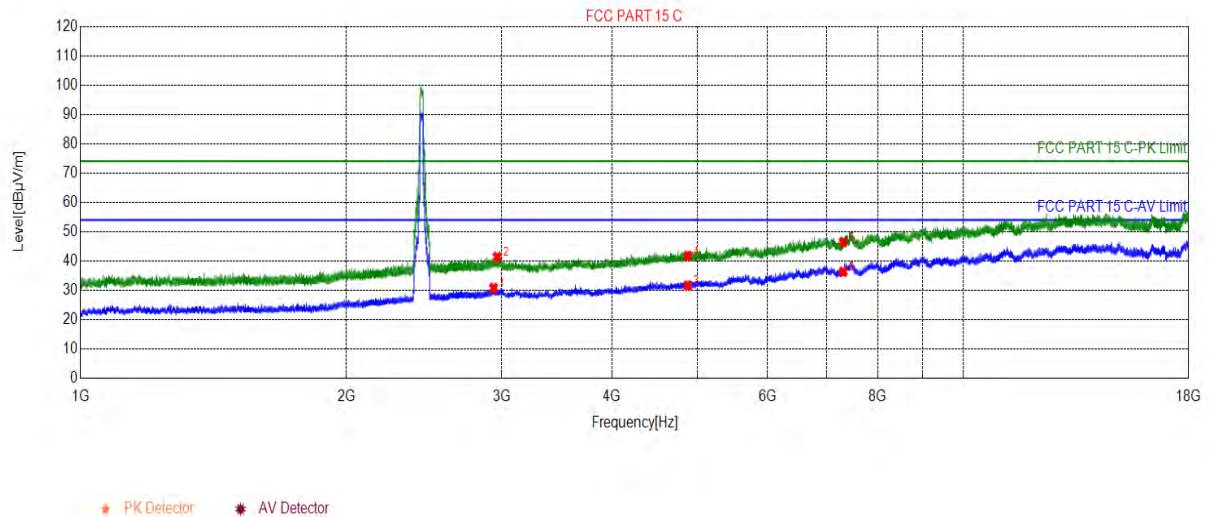
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### 802.11N20\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.49	30.77	10.52	54.00	23.23	187	311	Horizontal
2	2965.29	41.37	10.42	74.00	32.63	175	336	Horizontal
3	4874.00	31.58	-15.09	54.00	22.42	165	26	Horizontal
4	4874.00	41.68	-15.09	74.00	32.32	194	99	Horizontal
5	7311.00	46.45	-8.93	74.00	27.55	158	202	Horizontal
6	7311.00	36.34	-8.93	54.00	17.66	147	12	Horizontal

#### Final Data List



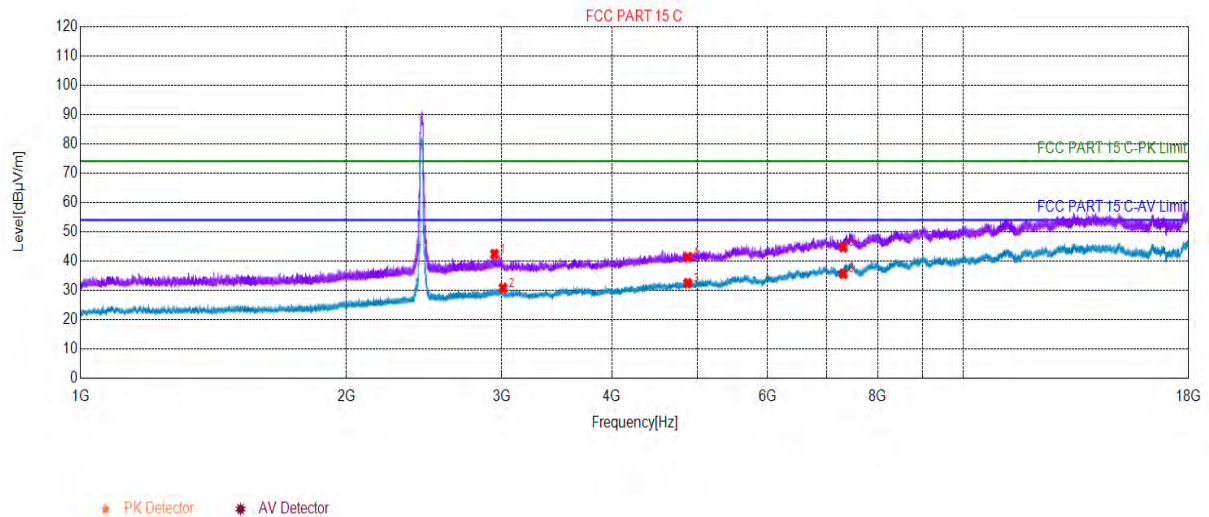
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### 802.11N20\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.29	42.36	10.53	74.00	31.64	187	152	Vertical
2	3010.20	30.81	-21.16	54.00	23.19	175	157	Vertical
3	4874.00	32.44	-15.09	54.00	21.56	162	85	Vertical
4	4874.00	41.28	-15.09	74.00	32.72	195	41	Vertical
5	7311.00	44.72	-8.93	74.00	29.28	169	55	Vertical
6	7311.00	35.63	-8.93	54.00	18.37	158	142	Vertical

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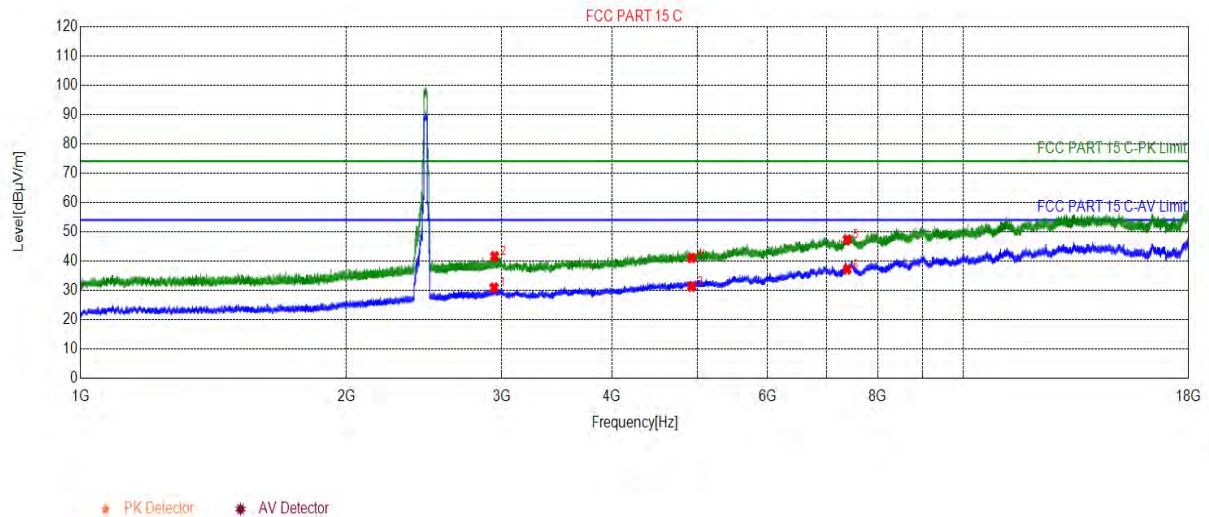
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### 802.11N20\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2941.19	30.88	10.51	54.00	23.12	178	236	Horizontal
2	2944.89	41.58	10.53	74.00	32.42	195	210	Horizontal
3	4924.00	31.29	-14.74	54.00	22.71	159	70	Horizontal
4	4924.00	41.03	-14.74	74.00	32.97	167	246	Horizontal
5	7386.00	47.28	-7.78	74.00	26.72	188	332	Horizontal
6	7386.00	37.16	-7.78	54.00	16.84	154	275	Horizontal

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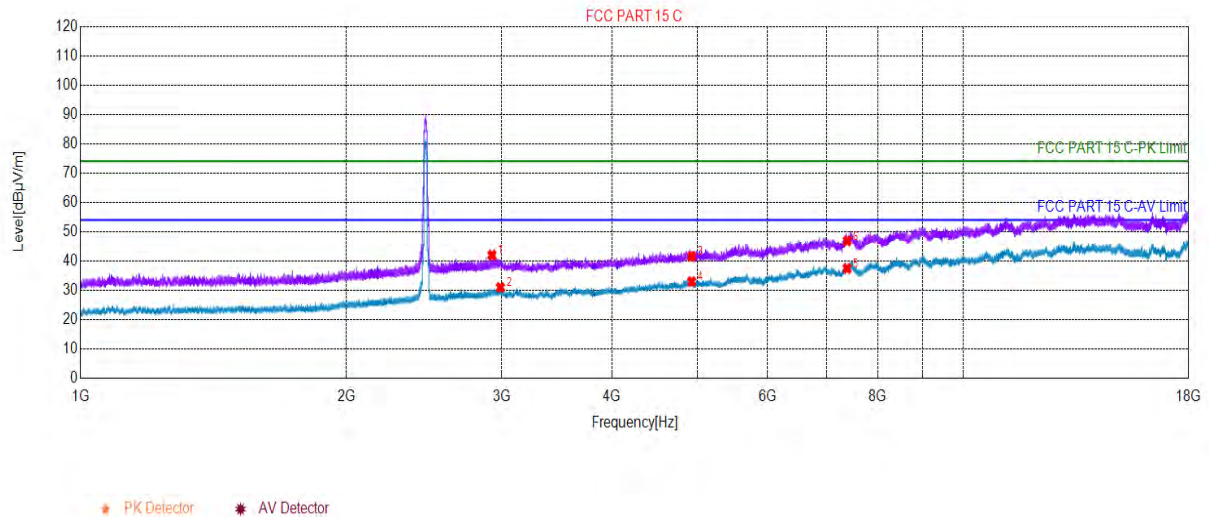
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### 802.11N20\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2924.79	41.97	10.46	74.00	32.03	178	135	Vertical
2	2989.89	30.98	10.49	54.00	23.02	214	45	Vertical
3	4924.00	41.58	-14.74	74.00	32.42	156	188	Vertical
4	4924.00	32.98	-14.74	54.00	21.02	195	2	Vertical
5	7386.00	37.46	-7.78	54.00	16.54	177	2	Vertical
6	7386.00	46.83	-7.78	74.00	27.17	155	203	Vertical

#### Final Data List



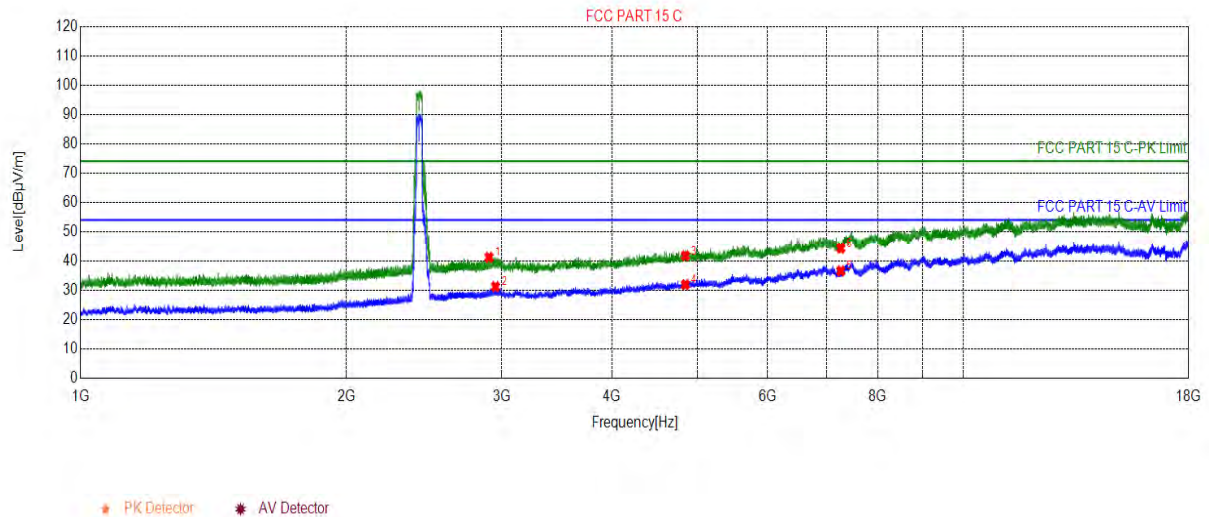
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### 802.11N40\_Channel 3 MIMO

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2902.49	41.26	10.18	74.00	32.74	215	45	Horizontal
2	2951.79	31.23	10.56	54.00	22.77	208	7	Horizontal
3	4844.00	41.79	-15.21	74.00	32.21	150	172	Horizontal
4	4844.00	31.93	-15.21	54.00	22.07	178	114	Horizontal
5	7266.00	36.59	-9.04	54.00	17.41	195	303	Horizontal
6	7266.00	44.35	-9.04	74.00	29.65	166	215	Horizontal

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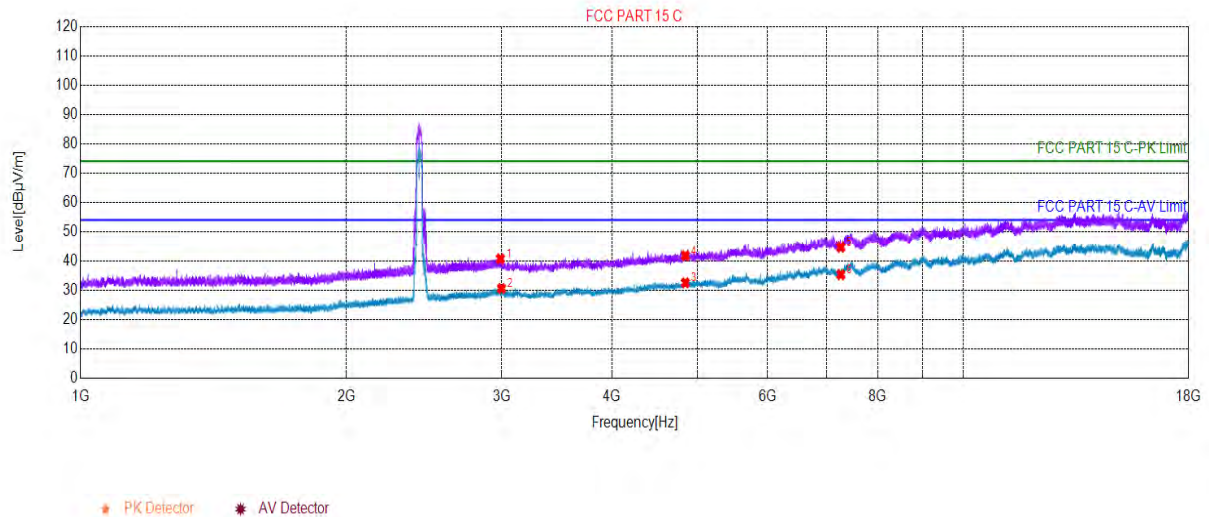
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### 802.11N40\_Channel 3 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2989.69	40.76	10.49	74.00	33.24	150	110	Vertical
2	2998.29	30.63	10.76	54.00	23.37	177	21	Vertical
3	4844.00	32.56	-15.21	54.00	21.44	148	12	Vertical
4	4844.00	41.81	-15.21	74.00	32.19	198	186	Vertical
5	7266.00	44.74	-9.04	74.00	29.26	156	260	Vertical
6	7266.00	35.35	-9.04	54.00	18.65	159	158	Vertical

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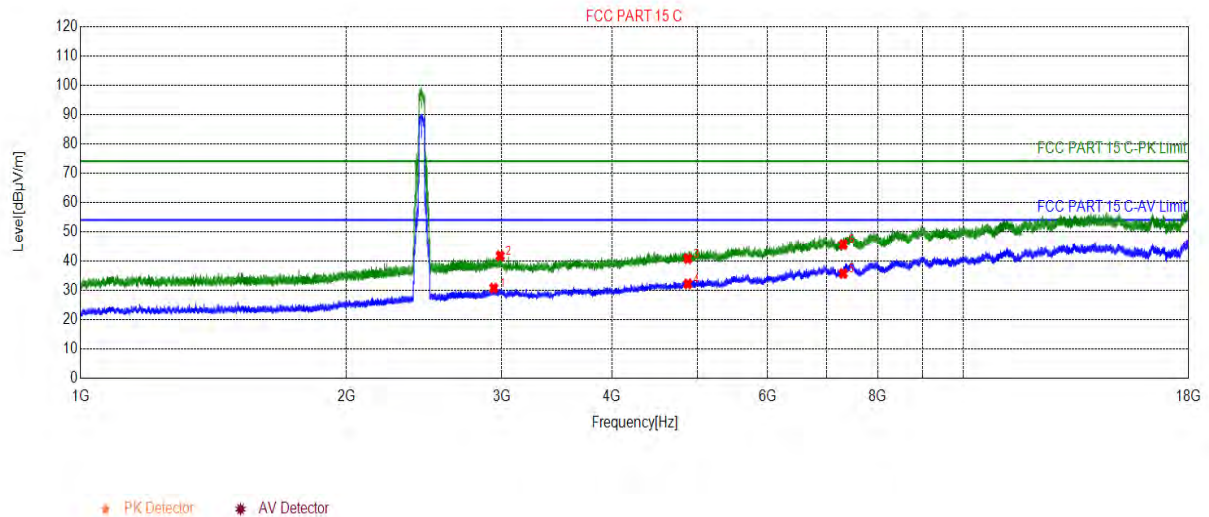
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### 802.11N40\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.79	30.74	10.51	54.00	23.26	178	72	Horizontal
2	2988.29	41.76	10.50	74.00	32.24	195	84	Horizontal
3	4874.00	40.78	-15.09	74.00	33.22	165	115	Horizontal
4	4874.00	32.19	-15.09	54.00	21.81	174	202	Horizontal
5	7311.00	35.72	-8.93	54.00	18.28	159	320	Horizontal
6	7311.00	45.62	-8.93	74.00	28.38	188	85	Horizontal

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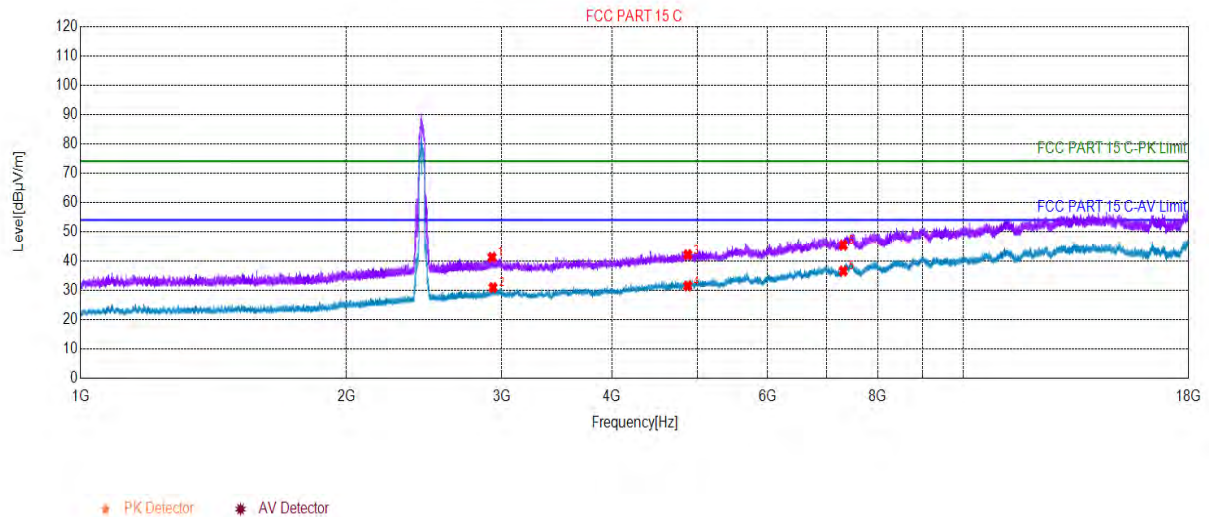
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### 802.11N40\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.39	41.27	10.47	74.00	32.73	215	358	Vertical
2	2932.19	30.94	10.54	54.00	23.06	224	160	Vertical
3	4874.00	42.17	-15.09	74.00	31.83	236	268	Vertical
4	4874.00	31.49	-15.09	54.00	22.51	208	33	Vertical
5	7311.00	36.57	-8.93	54.00	17.43	214	166	Vertical
6	7311.00	45.41	-8.93	74.00	28.59	178	284	Vertical

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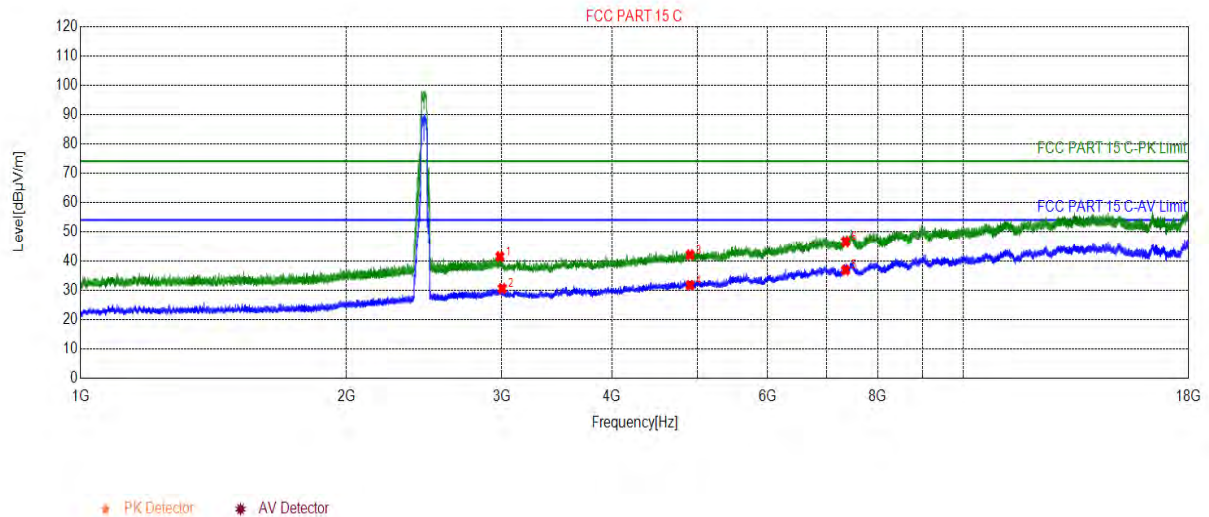
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### 802.11N40\_Channel 9 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2986.09	41.51	10.51	74.00	32.49	205	196	Horizontal
2	3004.20	30.62	-21.18	54.00	23.38	218	41	Horizontal
3	4904.00	42.14	-14.95	74.00	31.86	224	252	Horizontal
4	4904.00	31.70	-14.95	54.00	22.30	275	326	Horizontal
5	7356.00	36.88	-7.68	54.00	17.12	268	237	Horizontal
6	7356.00	46.59	-7.68	74.00	27.41	231	77	Horizontal

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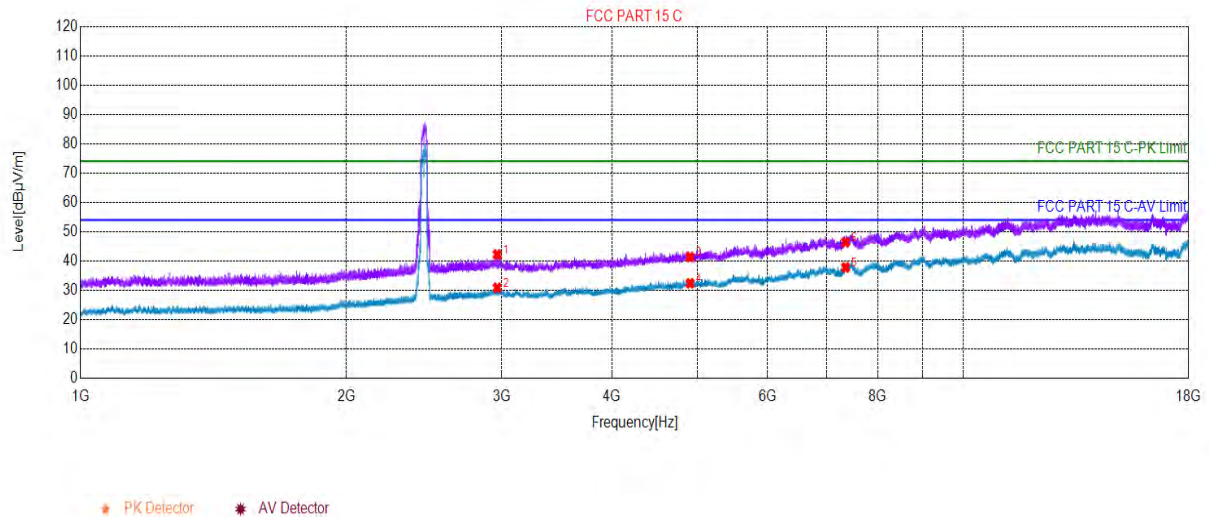
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### 802.11N40\_Channel 9 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.59	42.18	10.43	74.00	31.82	178	186	Vertical
2	2965.39	30.85	10.41	54.00	23.15	198	204	Vertical
3	4904.00	41.36	-14.95	74.00	32.64	156	230	Vertical
4	4904.00	32.40	-14.95	54.00	21.60	167	143	Vertical
5	7356.00	37.80	-7.68	54.00	16.20	177	186	Vertical
6	7356.00	46.40	-7.68	74.00	27.60	169	2	Vertical

#### Final Data List



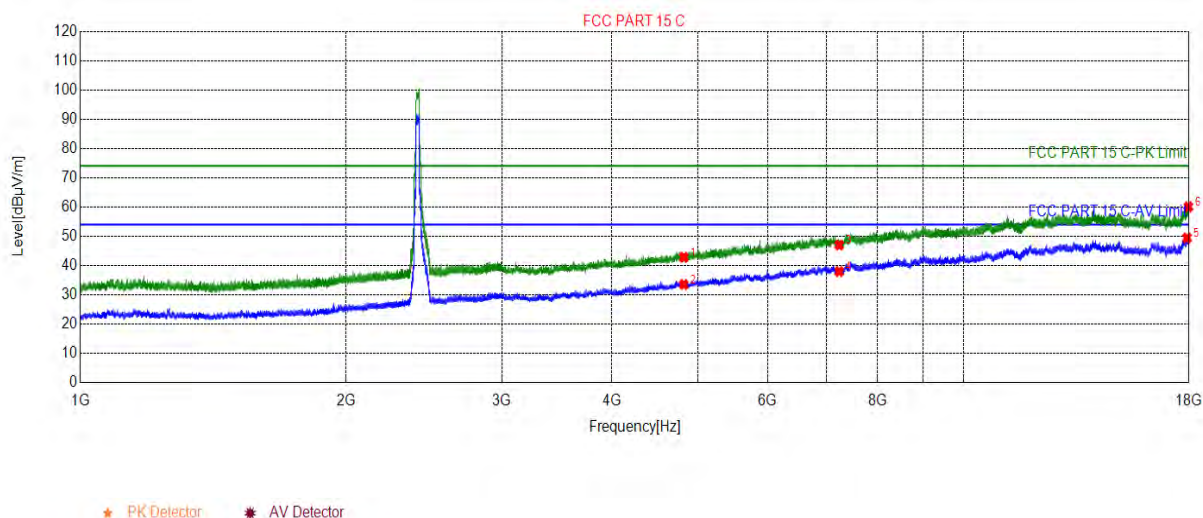
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### 802.11AC20\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	42.81	-15.31	74.00	31.19	184	99	Horizontal
2	4824.00	33.53	-15.31	54.00	20.47	204	143	Horizontal
3	7236.00	46.99	-8.82	74.00	27.01	189	56	Horizontal
4	7236.00	37.91	-8.82	54.00	16.09	146	12	Horizontal
5	17927.3	49.42	2.35	54.00	4.58	204	301	Horizontal
6	17992.1	60.06	1.54	74.00	13.94	232	186	Horizontal

#### Final Data List



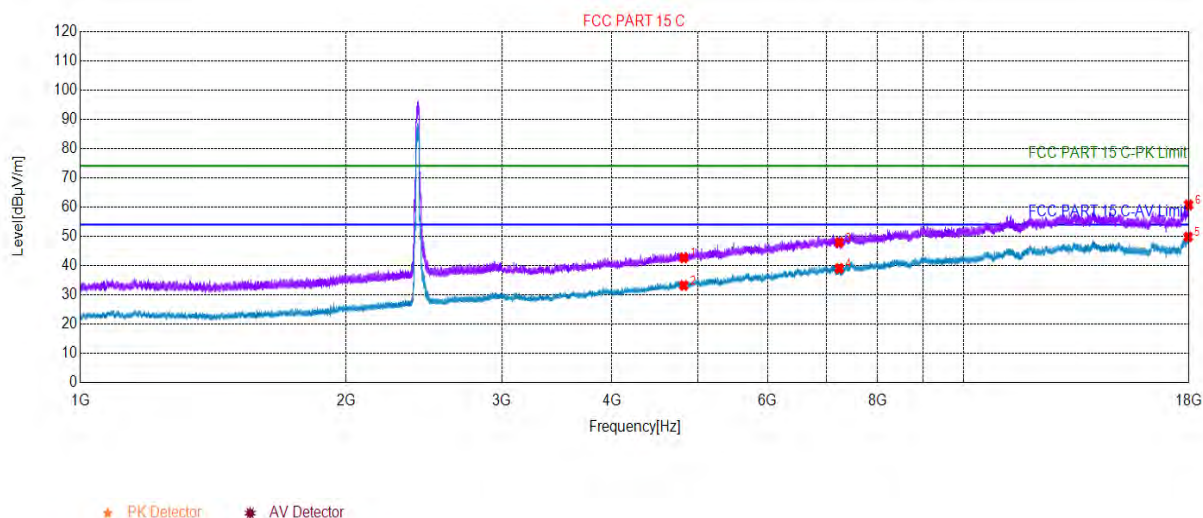
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### 802.11AC20\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	42.62	-15.31	74.00	31.38	236	172	Vertical
2	4824.00	33.17	-15.31	54.00	20.83	325	56	Vertical
3	7236.00	47.85	-8.82	74.00	26.15	248	99	Vertical
4	7236.00	39.02	-8.82	54.00	14.98	255	114	Vertical
5	17979.5	49.77	1.81	54.00	4.23	296	272	Vertical
6	17998.8	60.70	1.41	74.00	13.30	301	12	Vertical

#### Final Data List



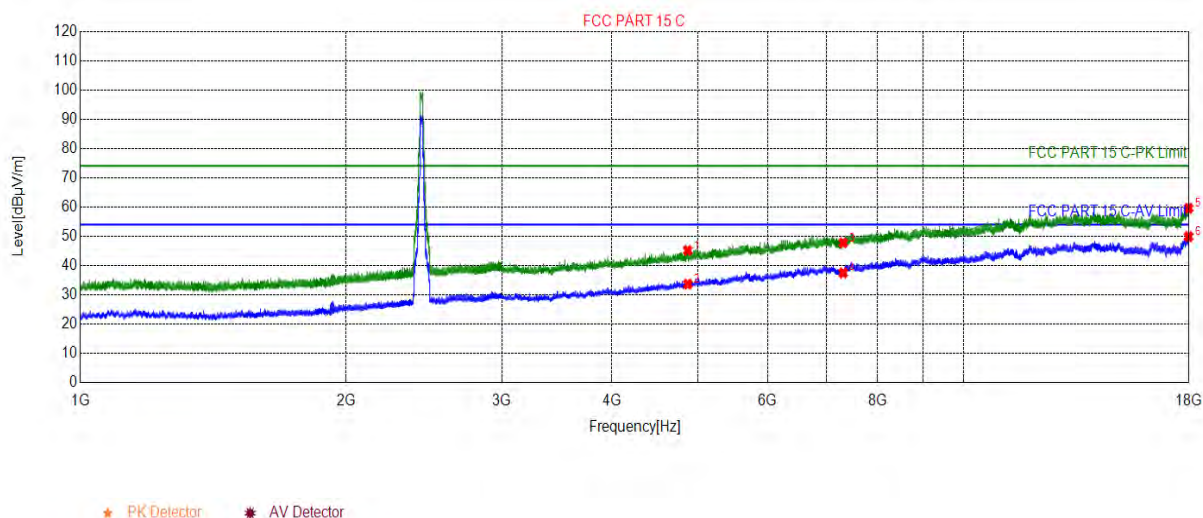
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### 802.11AC20\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	45.15	-15.09	74.00	28.85	156	230	Horizontal
2	4874.00	33.64	-15.09	54.00	20.36	260	345	Horizontal
3	7311.00	47.74	-8.93	74.00	26.26	187	143	Horizontal
4	7311.00	37.46	-8.93	54.00	16.54	199	13	Horizontal
5	17996.9	59.55	1.44	74.00	14.45	204	84	Horizontal
6	17998.8	49.86	1.41	54.00	4.14	231	314	Horizontal

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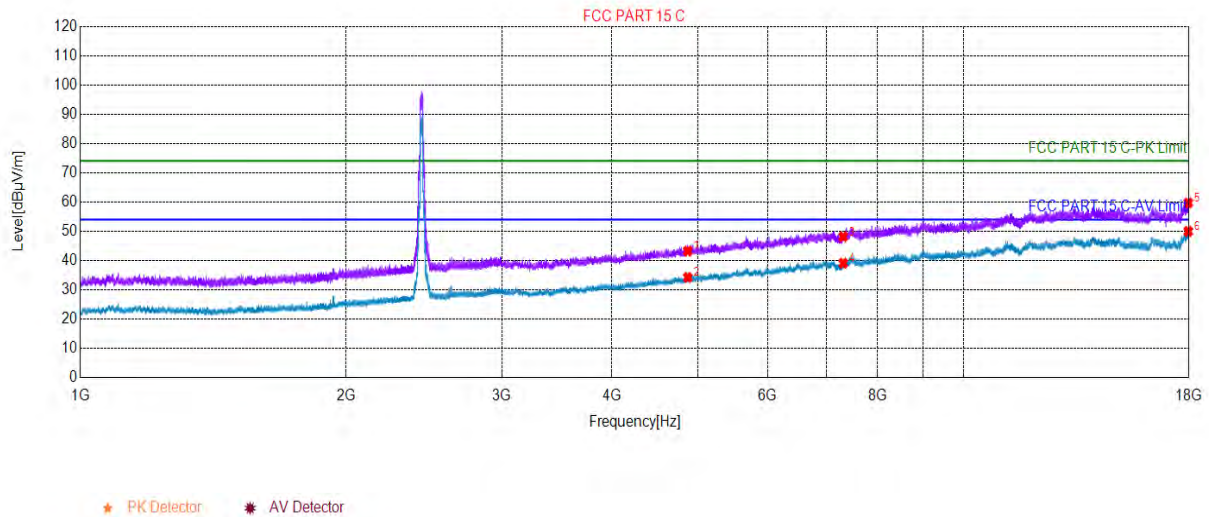
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### 802.11AC20\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	43.22	-15.09	74.00	30.78	236	40	Vertical
2	4874.00	34.21	-15.09	54.00	19.79	287	28	Vertical
3	7311.00	48.15	-8.93	74.00	25.85	321	147	Vertical
4	7311.00	39.08	-8.93	54.00	14.92	241	186	Vertical
5	17983.7	59.68	1.72	74.00	14.32	204	104	Vertical
6	17984.3	49.95	1.71	54.00	4.05	265	288	Vertical

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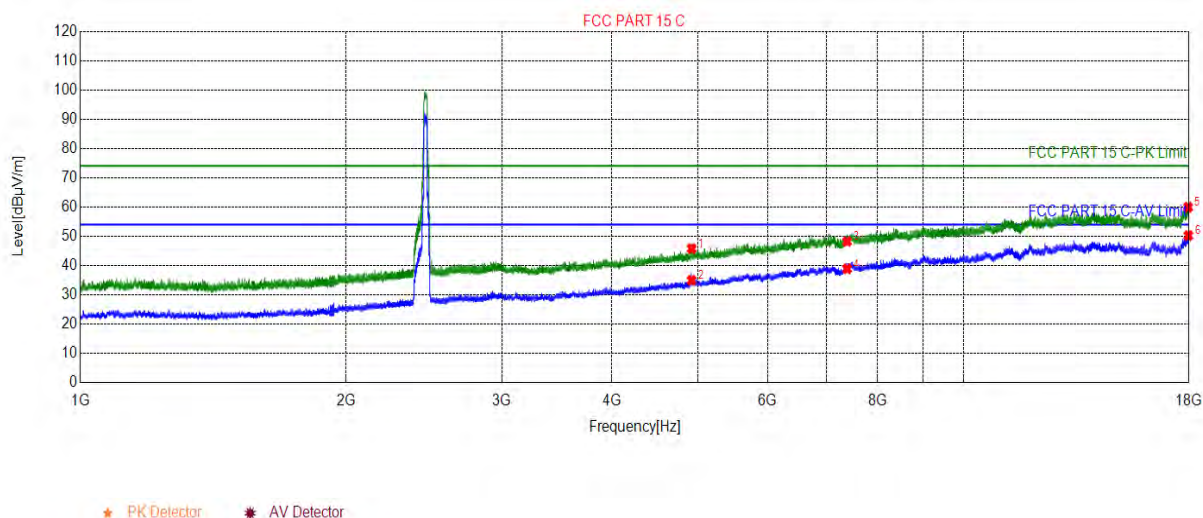
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### 802.11AC20\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	45.78	-14.74	74.00	28.22	156	88	Horizontal
2	4924.00	34.93	-14.74	54.00	19.07	235	221	Horizontal
3	7386.00	48.21	-7.78	74.00	25.79	187	101	Horizontal
4	7386.00	38.86	-7.78	54.00	15.14	102	2	Horizontal
5	17977.1	59.93	1.86	74.00	14.07	122	236	Horizontal
6	17989.1	50.20	1.61	54.00	3.80	134	347	Horizontal

#### Final Data List



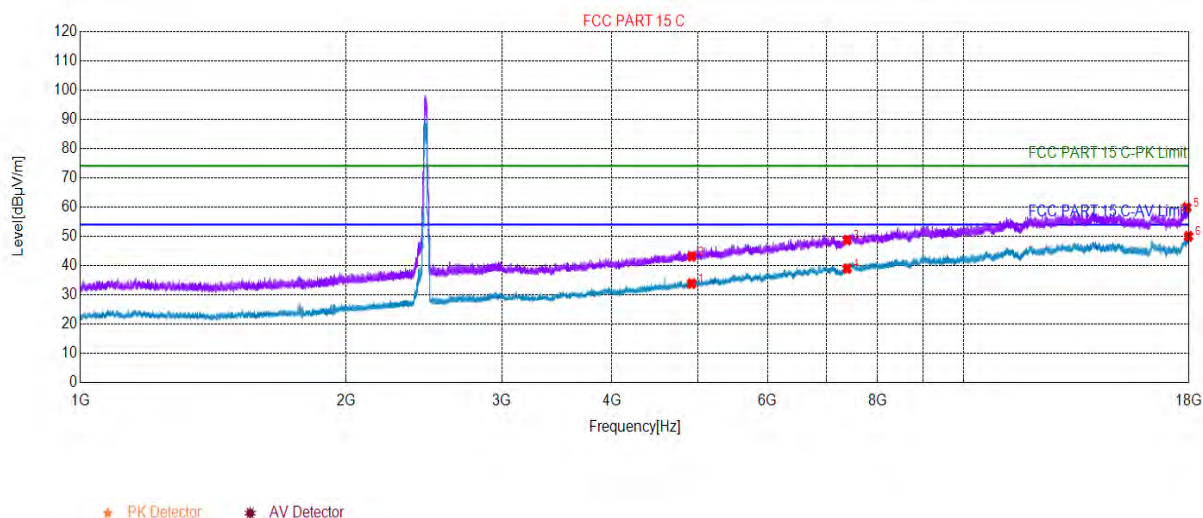
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### 802.11AC20\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.00	33.84	-14.74	54.00	20.16	158	307	Vertical
2	4924.00	43.10	-14.74	74.00	30.90	325	56	Vertical
3	7386.00	48.66	-7.78	74.00	25.34	256	56	Vertical
4	7386.00	38.93	-7.78	54.00	15.07	321	332	Vertical
5	17915.3	59.82	2.31	74.00	14.18	321	56	Vertical
6	17996.9	49.96	1.44	54.00	4.04	125	190	Vertical

#### Final Data List



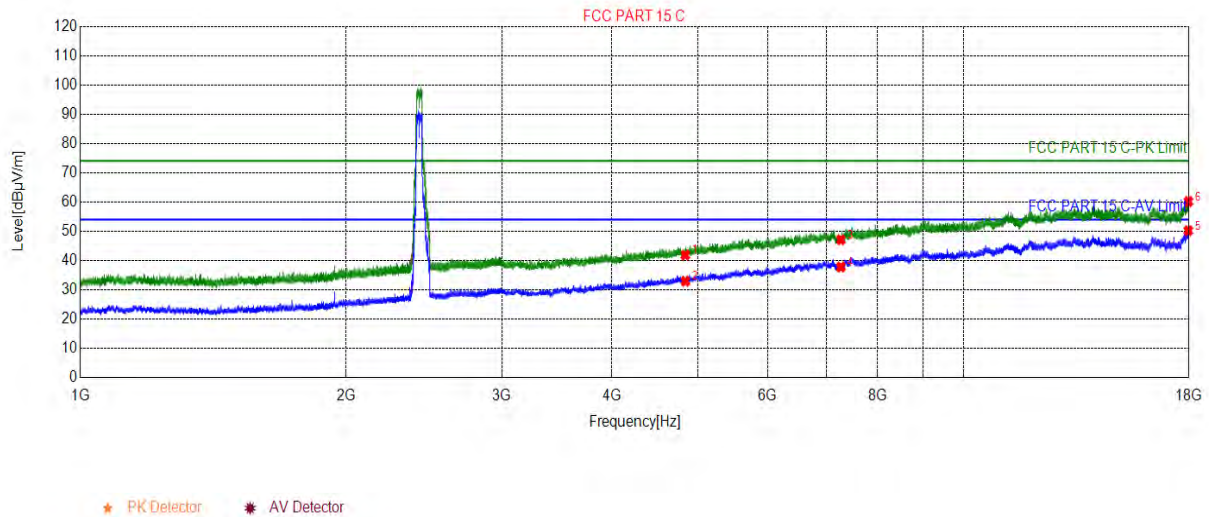
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### 802.11AC40\_Channel 3 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.00	41.86	-15.21	74.00	32.14	204	13	Horizontal
2	4844.00	32.93	-15.21	54.00	21.07	189	156	Horizontal
3	7266.00	47.10	-9.04	74.00	26.90	146	85	Horizontal
4	7266.00	37.78	-9.04	54.00	16.22	177	343	Horizontal
5	17986.7	50.17	1.66	54.00	3.83	165	125	Horizontal
6	17993.9	60.15	1.51	74.00	13.85	125	185	Horizontal

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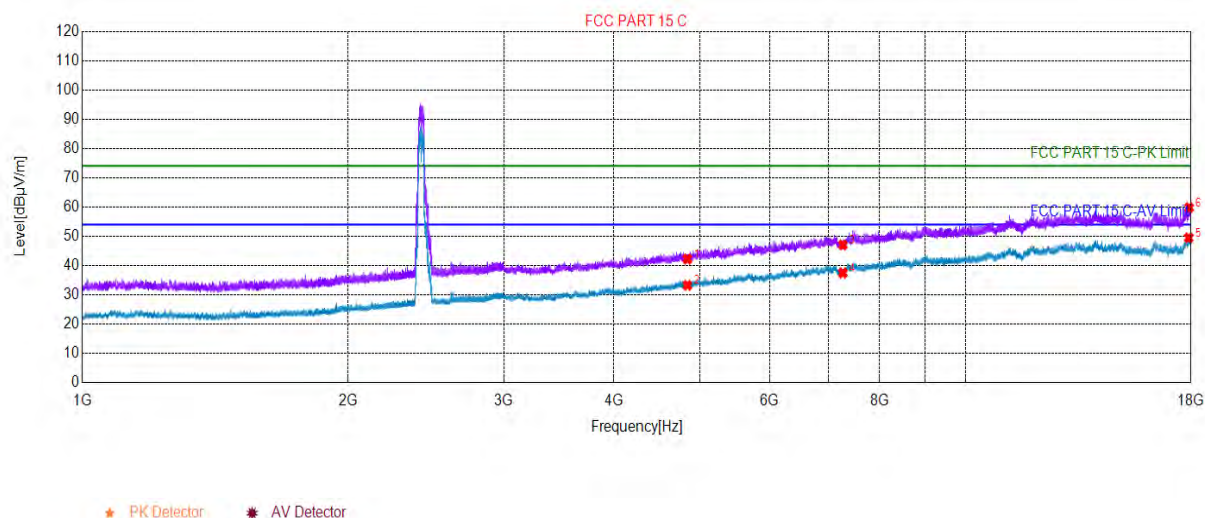
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### 802.11AC40\_Channel 3 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.00	42.19	-15.21	74.00	31.81	266	56	Vertical
2	4844.00	33.22	-15.21	54.00	20.78	288	84	Vertical
3	7266.00	47.03	-9.04	74.00	26.97	321	117	Vertical
4	7266.00	37.45	-9.04	54.00	16.55	256	129	Vertical
5	17913.5	49.44	2.31	54.00	4.56	263	56	Vertical
6	17933.3	59.79	2.37	74.00	14.21	211	174	Vertical

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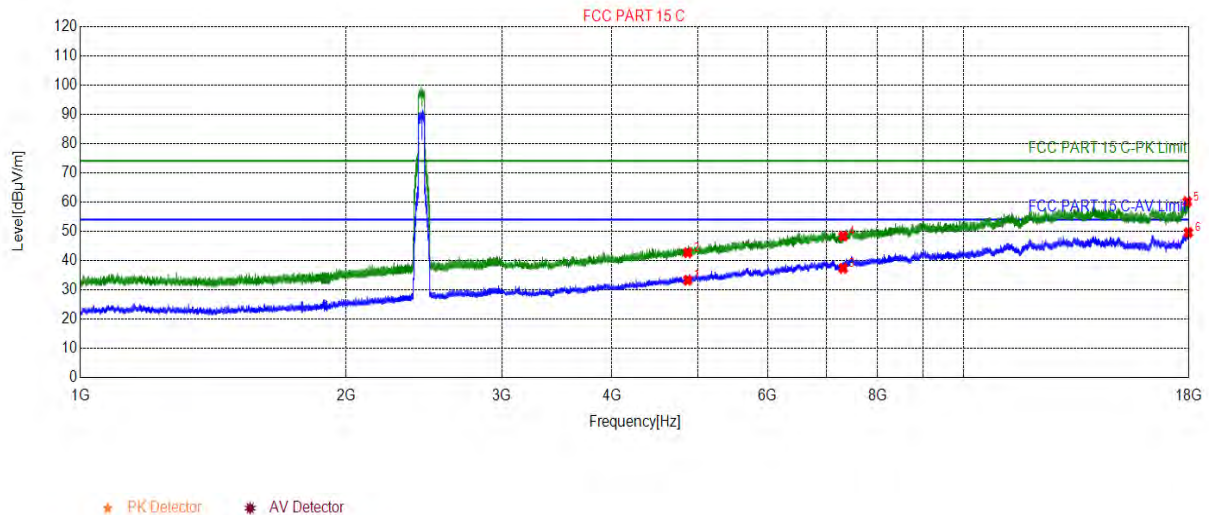
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### 802.11AC40\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	33.28	-15.09	54.00	20.72	147	224	Horizontal
2	4874.00	42.65	-15.09	74.00	31.35	236	239	Horizontal
5	17936.3	60.08	2.38	74.00	13.92	254	42	Horizontal
4	7311.00	48.31	-8.93	74.00	25.69	188	86	Horizontal
3	7311.00	37.33	-8.93	54.00	16.67	198	218	Horizontal
6	17990.3	49.53	1.58	54.00	4.47	125	44	Horizontal

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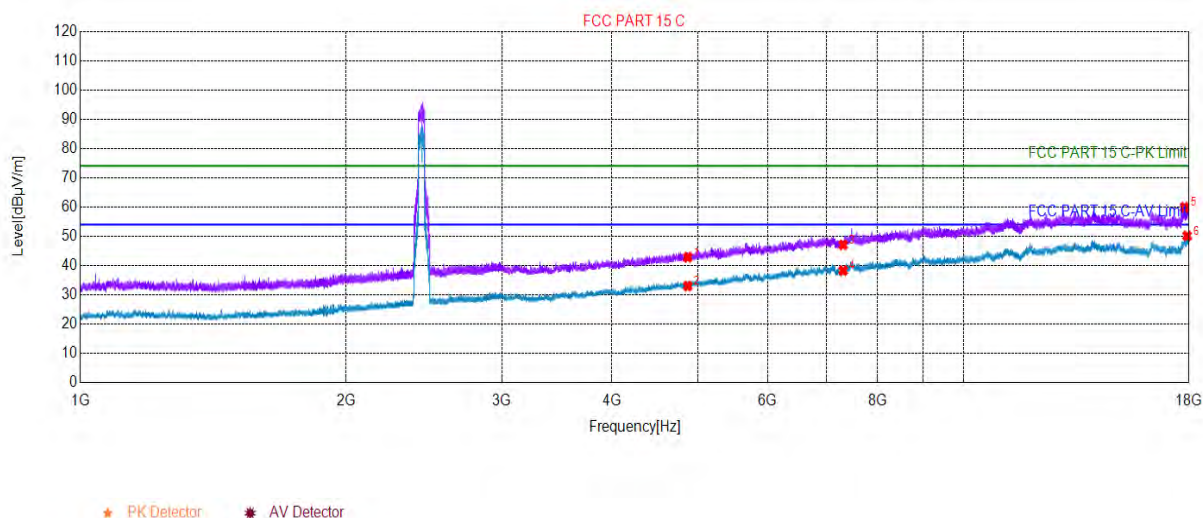
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### 802.11AC40\_Channel 6 MIMO

#### Test Graph



#### Suspected List

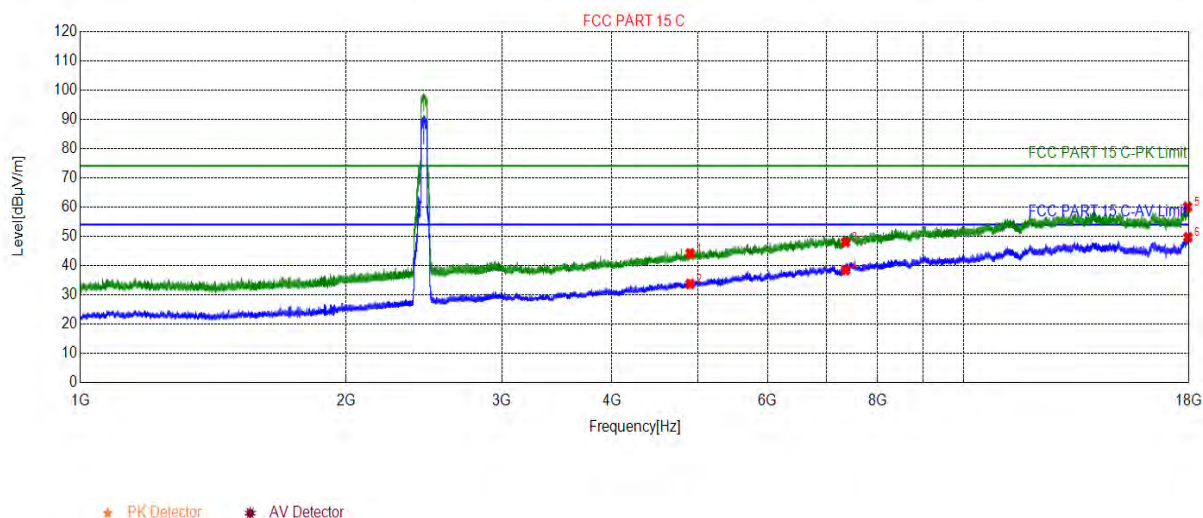
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.00	42.81	-15.09	74.00	31.19	287	2	Vertical
2	4874.00	32.98	-15.09	54.00	21.02	154	147	Vertical
3	7311.00	47.04	-8.93	74.00	26.96	253	288	Vertical
4	7311.00	38.26	-8.93	54.00	15.74	324	114	Vertical
5	17807.3	59.90	1.07	74.00	14.10	185	24	Vertical
6	17931.5	50.10	2.37	54.00	3.90	200	331	Vertical

#### Final Data List



### 802.11AC40\_Channel 9 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.00	44.12	-14.95	74.00	29.88	189	192	Horizontal
2	4904.00	33.70	-14.95	54.00	20.30	230	12	Horizontal
3	7356.00	47.94	-7.68	74.00	26.06	241	287	Horizontal
4	7356.00	38.43	-7.68	54.00	15.57	188	2	Horizontal
5	17951.9	59.99	2.38	74.00	14.01	164	56	Horizontal
6	17974.7	49.61	1.91	54.00	4.39	155	12	Horizontal

#### Final Data List



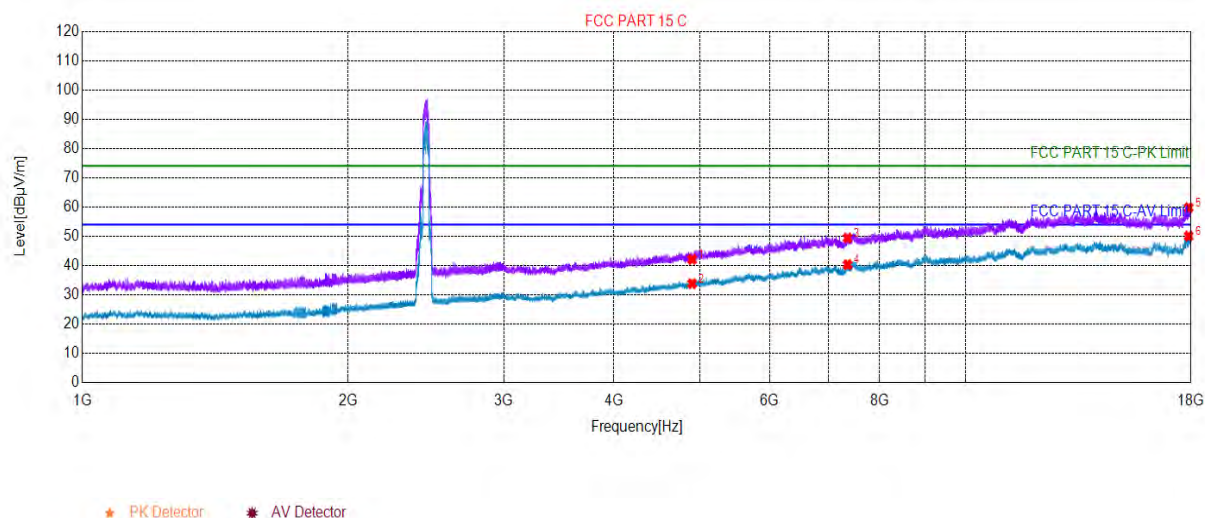
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### 802.11AC40\_Channel 9 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.00	42.06	-14.95	74.00	31.94	236	291	Vertical
2	4904.00	33.81	-14.95	54.00	20.19	254	234	Vertical
3	7356.00	49.40	-7.68	74.00	24.60	213	172	Vertical
4	7356.00	40.29	-7.68	54.00	13.71	325	2	Vertical
5	17912.9	59.75	2.31	74.00	14.25	288	350	Vertical
6	17912.9	50.02	2.31	54.00	3.98	246	11	Vertical

#### Final Data List



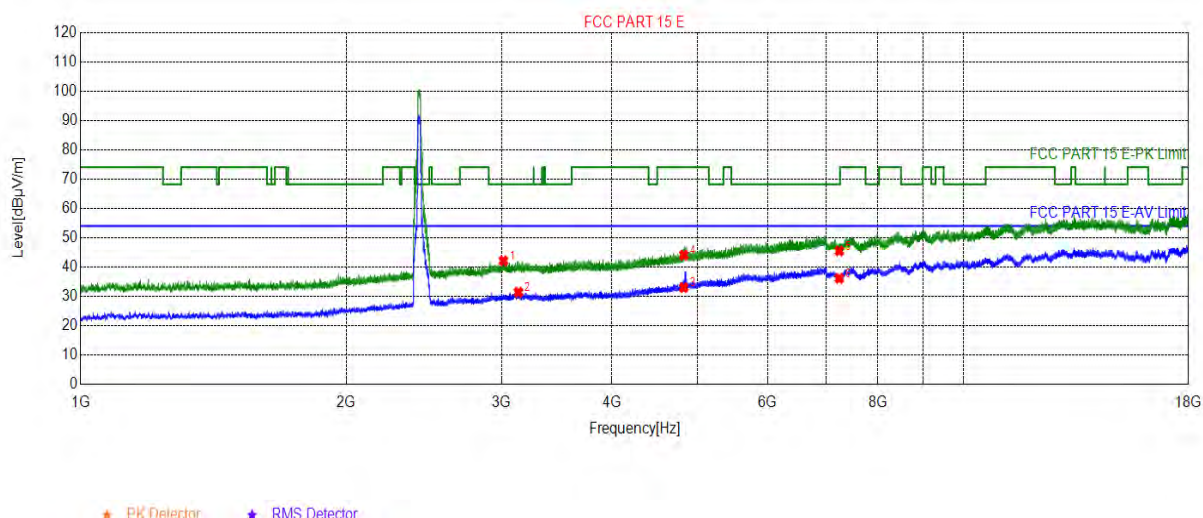
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### 802.11AX20\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3013.70	42.10	10.74	68.20	26.10	187	53	Horizontal
2	3133.40	31.36	11.08	54.00	22.64	192	30	Horizontal
3	4824.00	33.00	15.83	54.00	21.00	164	228	Horizontal
4	4824.00	44.03	15.83	74.00	29.97	175	205	Horizontal
5	7236.00	45.50	-8.59	68.20	22.70	189	268	Horizontal
6	7236.00	36.15	-8.59	54.00	17.85	199	222	Horizontal

#### Final Data List



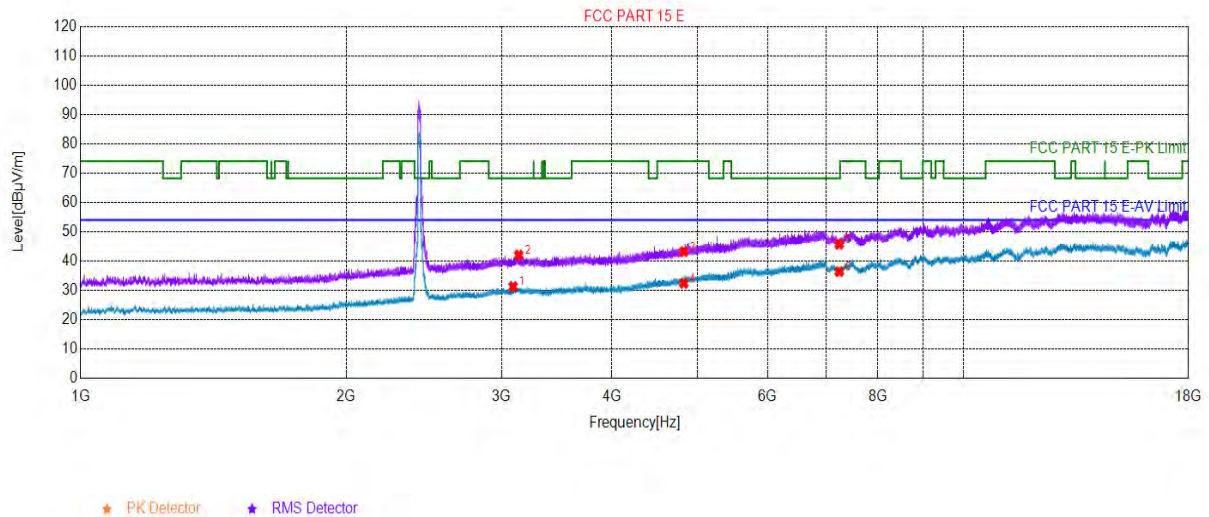
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### 802.11AX20\_Channel 1 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3090.50	31.24	10.84	54.00	22.76	178	178	Vertical
2	3136.10	42.00	10.95	68.20	26.20	196	253	Vertical
3	4824.00	43.19	15.83	74.00	30.81	156	291	Vertical
4	4824.00	32.41	15.83	54.00	21.59	171	32	Vertical
5	7236.00	45.73	-8.59	68.20	22.47	152	199	Vertical
6	7236.00	36.36	-8.59	54.00	17.64	194	85	Vertical

#### Final Data List



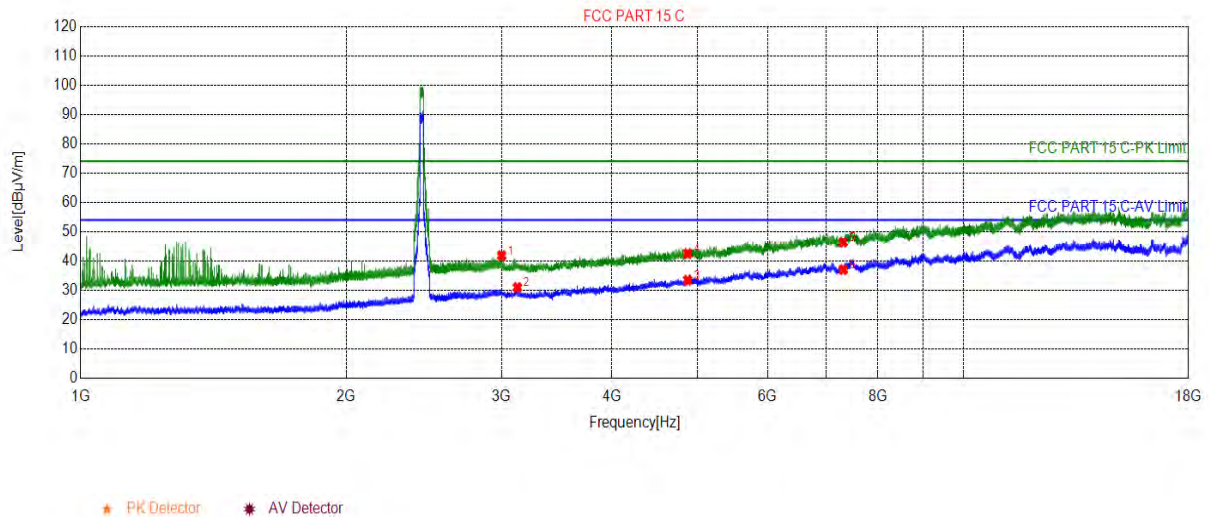
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### 802.11AX20\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2999.60	41.82	10.80	74.00	32.18	254	349	Horizontal
2	3125.40	30.97	-20.93	54.00	23.03	158	83	Horizontal
3	4874.00	33.43	-15.09	54.00	20.57	169	26	Horizontal
4	4874.00	42.57	-15.09	74.00	31.43	265	170	Horizontal
5	7311.00	46.40	-8.93	74.00	27.60	247	356	Horizontal
6	7311.00	37.05	-8.93	54.00	16.95	231	170	Horizontal

#### Final Data List



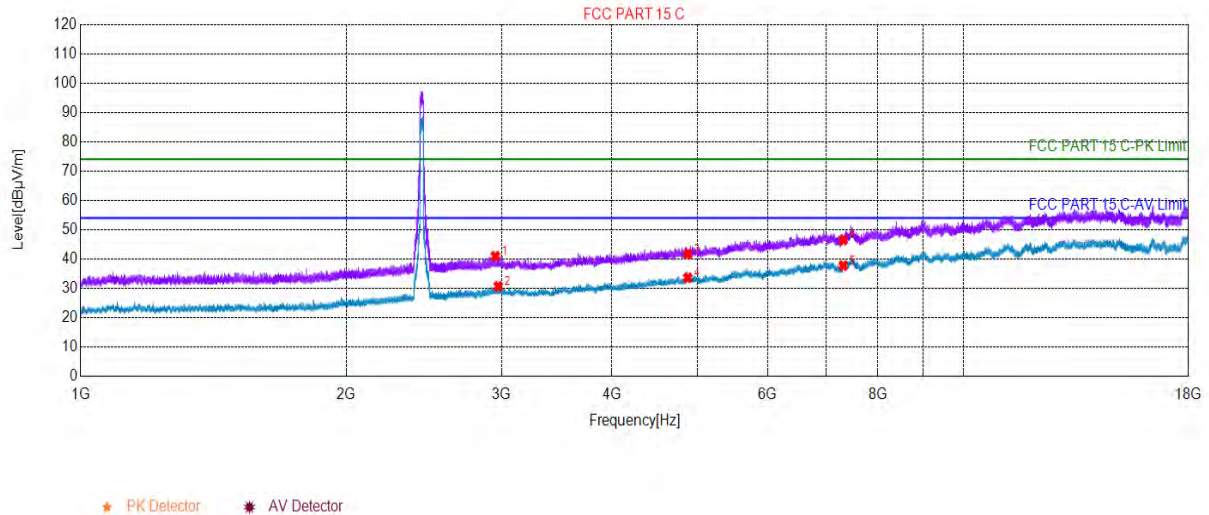
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### 802.11AX20\_Channel 6 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.59	40.94	10.56	74.00	33.06	214	275	Vertical
2	2972.39	30.65	10.38	54.00	23.35	256	173	Vertical
3	4874.00	41.70	-15.09	74.00	32.30	239	200	Vertical
4	4874.00	33.59	-15.09	54.00	20.41	178	70	Vertical
5	7311.00	37.75	-8.93	54.00	16.25	195	26	Vertical
6	7311.00	46.53	-8.93	74.00	27.47	165	40	Vertical

#### Final Data List



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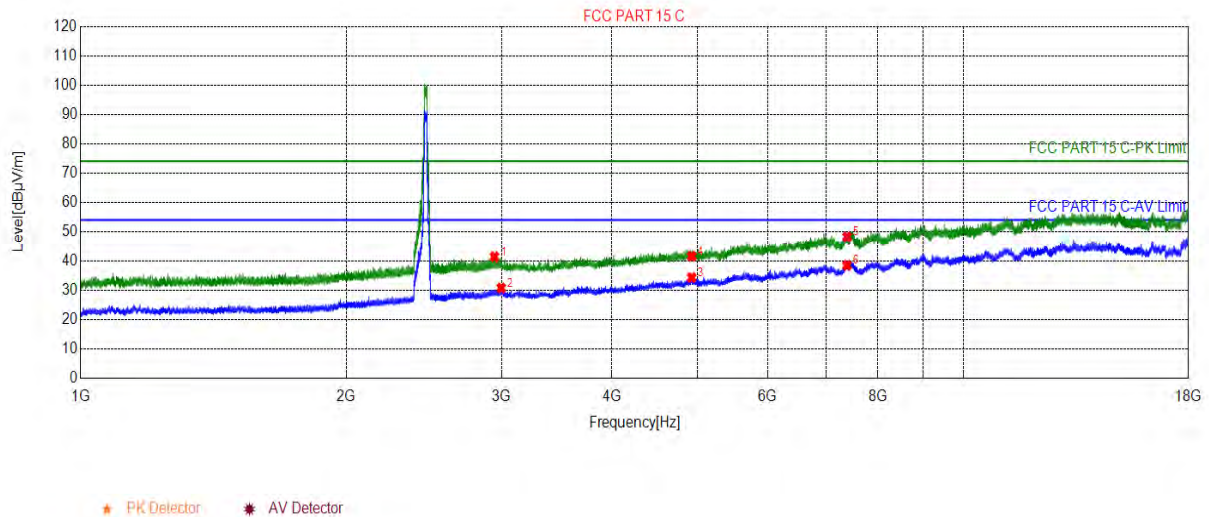
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### 802.11AX20\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.99	41.45	10.53	74.00	32.55	241	137	Horizontal
2	2995.99	30.80	10.68	54.00	23.20	256	49	Horizontal
3	4924.00	34.35	-14.74	54.00	19.65	233	85	Horizontal
4	4924.00	41.62	-14.74	74.00	32.38	198	13	Horizontal
5	7386.00	48.23	-7.78	74.00	25.77	175	345	Horizontal
6	7386.00	38.56	-7.78	54.00	15.44	162	27	Horizontal

#### Final Data List



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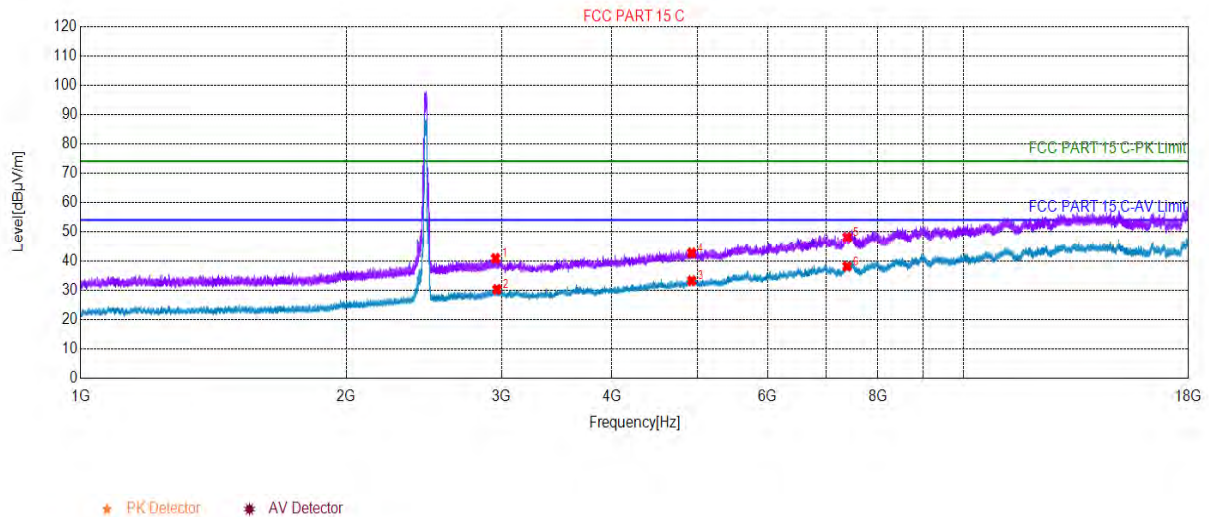
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### 802.11AX20\_Channel 11 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.89	40.90	10.56	74.00	33.10	236	110	Vertical
2	2963.09	30.32	10.46	54.00	23.68	187	149	Vertical
3	4924.00	33.25	-14.74	54.00	20.75	195	190	Vertical
4	4924.00	42.78	-14.74	74.00	31.22	211	118	Vertical
5	7386.00	48.01	-7.78	74.00	25.99	236	205	Vertical
6	7386.00	38.17	-7.78	54.00	15.83	174	102	Vertical

#### Final Data List



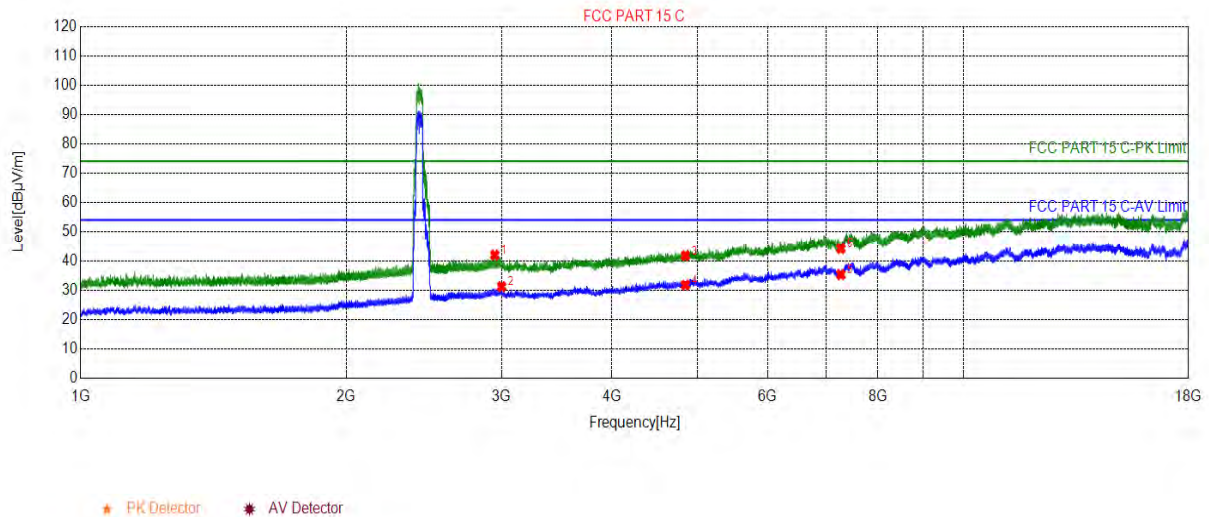
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### 802.11AX40\_Channel 3 MIMO

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.09	42.03	10.54	74.00	31.97	236	23	Horizontal
2	2999.60	31.25	10.80	54.00	22.75	241	350	Horizontal
3	4844.00	41.84	-15.21	74.00	32.16	258	2	Horizontal
4	4844.00	31.82	-15.21	54.00	22.18	269	99	Horizontal
5	7266.00	35.36	-9.04	54.00	18.64	217	55	Horizontal
6	7266.00	44.25	-9.04	74.00	29.75	222	99	Horizontal

#### Final Data List



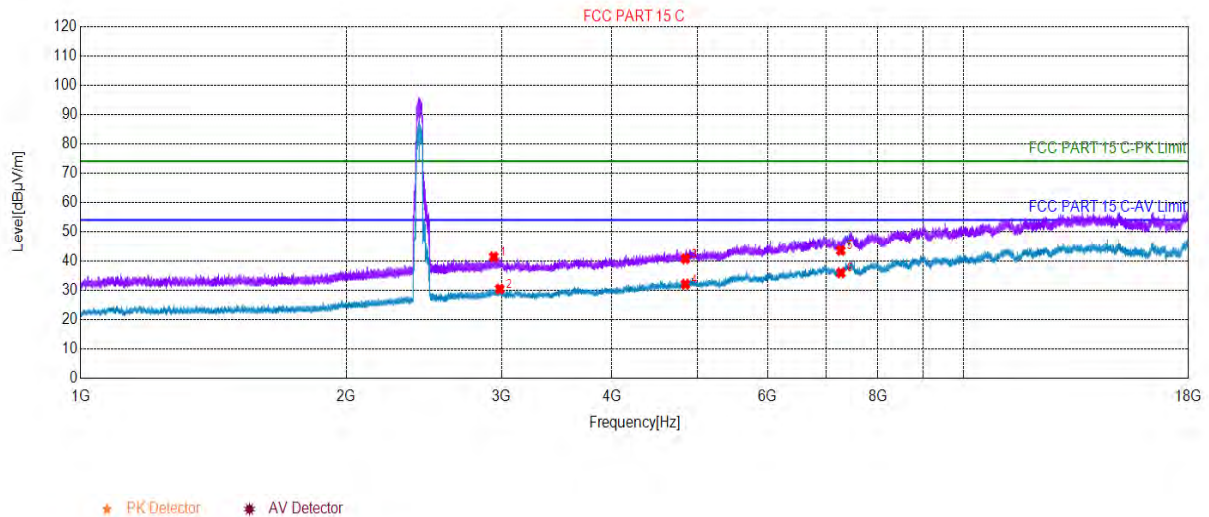
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### 802.11AX40\_Channel 3 MIMO

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.19	41.38	10.51	74.00	32.62	236	300	Vertical
2	2985.09	30.45	10.52	54.00	23.55	156	136	Vertical
3	4844.00	40.75	-15.21	74.00	33.25	259	258	Vertical
4	4844.00	32.07	-15.21	54.00	21.93	215	26	Vertical
5	7266.00	43.59	-9.04	74.00	30.41	243	84	Vertical
6	7266.00	35.93	-9.04	54.00	18.07	211	143	Vertical

#### Final Data List



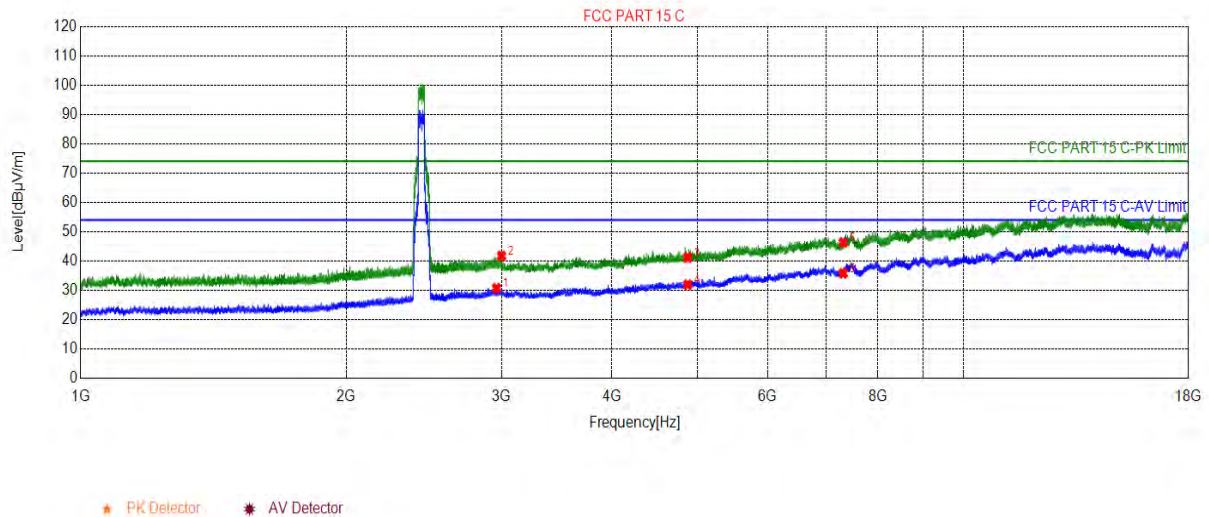
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### 802.11AX40\_Channel 6 MIMO

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.19	30.69	10.51	54.00	23.31	215	313	Horizontal
2	2998.89	41.73	10.77	74.00	32.27	224	113	Horizontal
3	4874.00	41.18	-15.09	74.00	32.82	274	328	Horizontal
4	4874.00	31.94	-15.09	54.00	22.06	285	242	Horizontal
5	7311.00	35.81	-8.93	54.00	18.19	263	171	Horizontal
6	7311.00	46.29	-8.93	74.00	27.71	223	242	Horizontal

#### Final Data List



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