

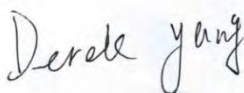
FCC TEST REPORT

Application No.: AR/2020/C0002
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: M2101K9G
Trade Mark: XIAOMI
FCC ID: 2AFZZK9G
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/21
Date of Test: 2020/12/21 to 2021/1/18
Date of Issue: 2021/4/30

Test Result :	PASS *
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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

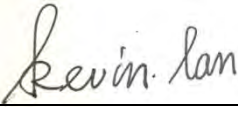


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/1/19		Original
02		2021/4/30	Kevin.Lan	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

*This report supersedes our previous report AR/2020/C000204, issued on 2021-1-19, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		(Kevin.Lan) /Engineer
Checked By		(David Chen) /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.

Parts of test items above were subcontracted to Lab 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:	Xiaomi Communications Co., Ltd.
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Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

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, Mike Hu

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	Ben Huang, Leah Chen



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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.:	M2101K9G
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12
IEEE 802.11 WLAN Mode Supported	☒ 802.11B (20 MHz channel bandwidth), ☒ 802.11G (20 MHz channel bandwidth), ☒ 802.11N (20 MHz channel bandwidth), ☒ 802.11N (40 MHz channel bandwidth), ☒ 802.11AX (20 MHz channel bandwidth), ☒ 802.11AX (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)/AX(HE20) : OFDM/OFDMA IEEE for 802.11N(HT40)/AX(HE40) : OFDM/OFDMA
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	PIFA Antenna
Antenna Ports	☒ Ant 1, ☒ Ant 2, ☐ Ant 3
Smart System	☐ SISO (for 802.11B/G/N), ☒ MIMO (for 802.11N): 2 Tx & 2 Rx, ☐ Diversity (for 802.11B/G) : Tx & Rx
Antenna Gain:	-1.8dBi(ANT1);-0.9 dBi(ANT2);

Operation Frequency of each channel (802.11B/G/N HT20/AX HE20)

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/AX HE40)

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) /AX (HE20)	Frequency for 802.11N (HT40) /AX (HE40)
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

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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. 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.	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.8dBi(ANT1);-0.9dBi(ANT2).	



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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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, 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.		



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 5.10 for details
Test Results:	Pass



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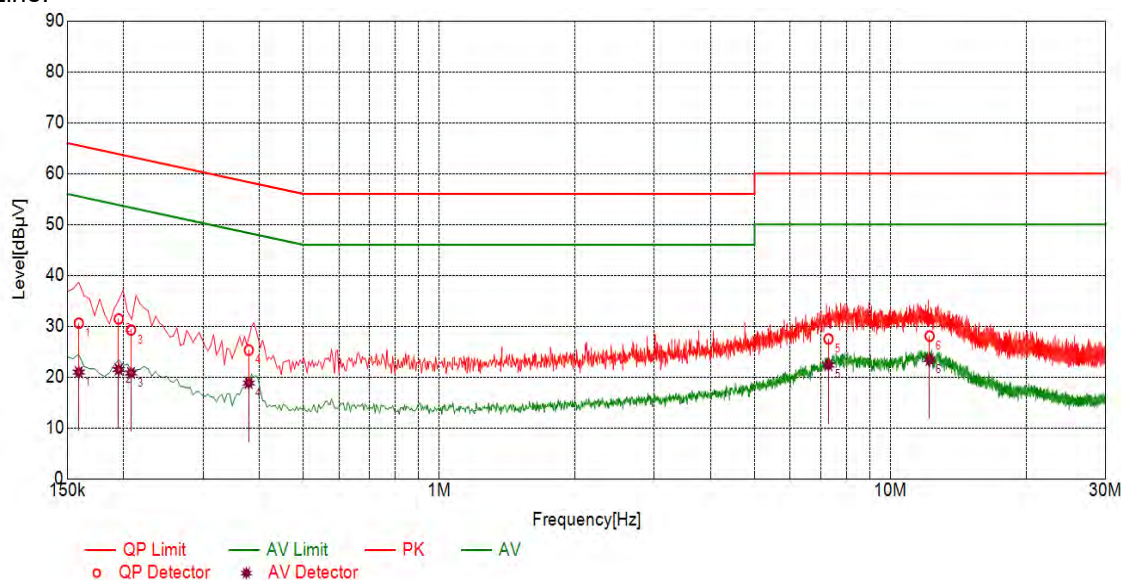
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Measurement Data

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	0.1591	10.10	30.59	65.51	34.92	20.97	55.51	34.54
2	0.1950	10.10	31.42	63.82	32.40	21.48	53.82	32.34
3	0.2077	10.10	29.26	63.30	34.04	20.82	53.30	32.48
4	0.3788	10.10	25.30	58.31	33.01	18.84	48.31	29.47
5	7.2925	10.10	27.50	60.00	32.50	22.38	50.00	27.62
6	12.2181	10.10	28.05	60.00	31.95	23.45	50.00	26.55

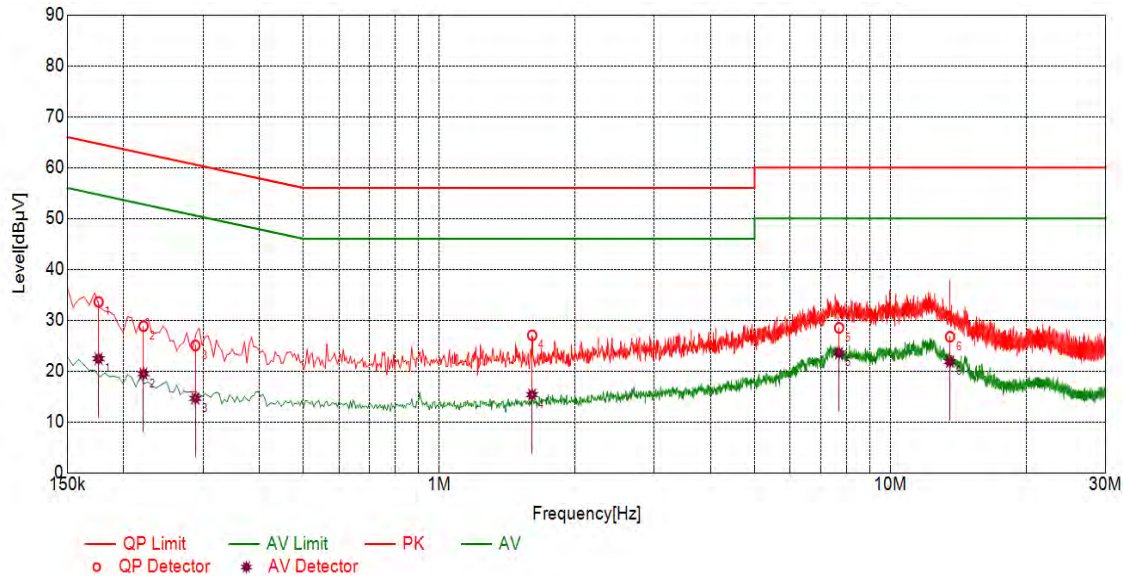


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Neutral Line:



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	0.1760	10.10	33.59	64.67	31.08	22.43	54.67	32.24
2	0.2213	10.10	28.82	62.77	33.95	19.47	52.77	33.30
3	0.2884	10.10	25.04	60.57	35.53	14.63	50.57	35.94
4	1.6074	10.10	27.03	56.00	28.97	15.36	46.00	30.64
5	7.6987	10.10	28.50	60.00	31.50	23.53	50.00	26.47
6	13.5569	10.11	26.75	60.00	33.25	21.85	50.00	28.15

Remarks:

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



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4.3 Duty Cycle

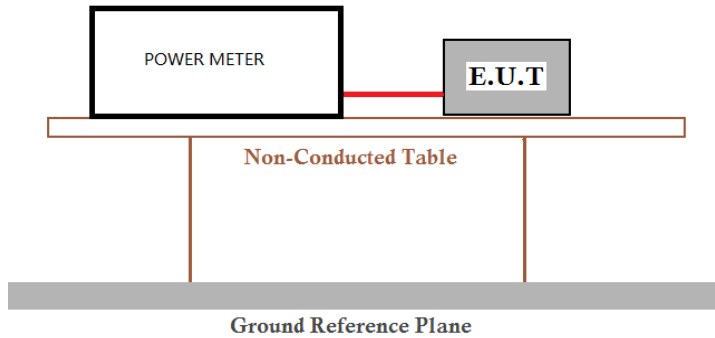
The detailed test data see: **Appendix C**



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4.4 Conducted Output Power

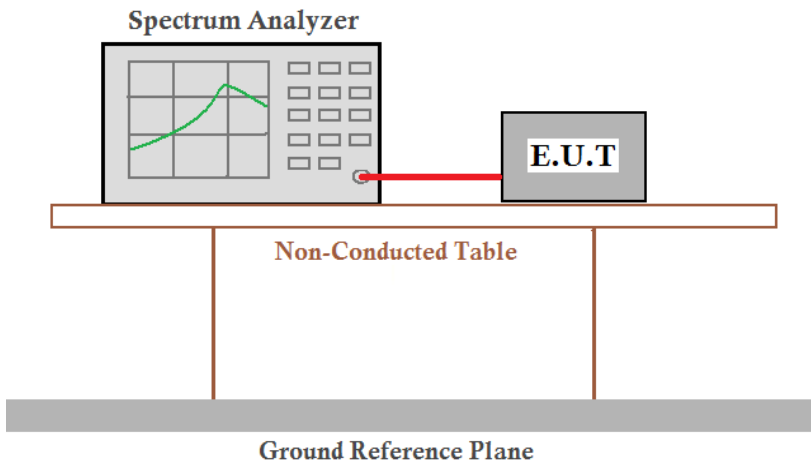
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate 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:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix C**



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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 5.10 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:	≥ 500 kHz
Test Results:	Pass

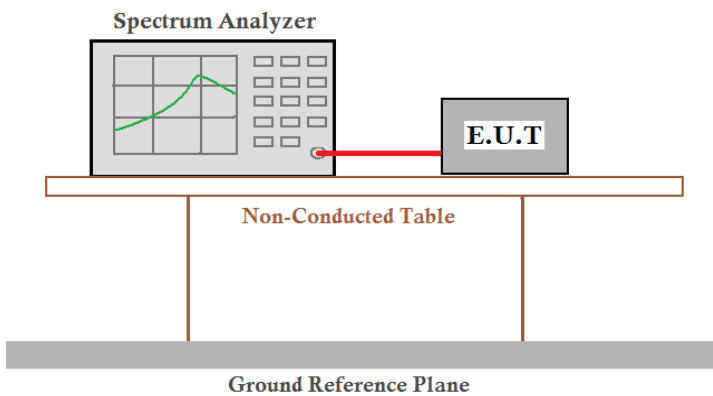
The detailed test data see: **Appendix C**



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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 5.10 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:	≤8.00dBm/3kHz
Test Results:	Pass

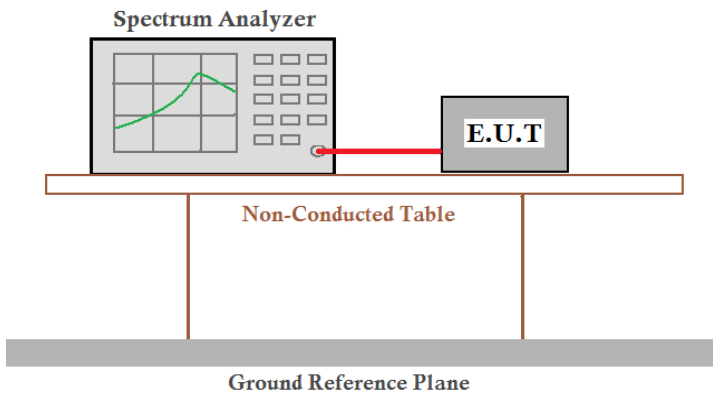
The detailed test data see: **Appendix C**



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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 5.10 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

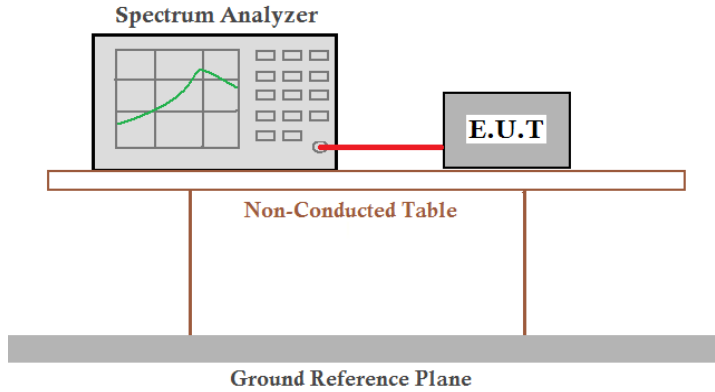
The detailed test data see: **Appendix C**



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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 5.10 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 C**

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	100kHz	30kHz	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:

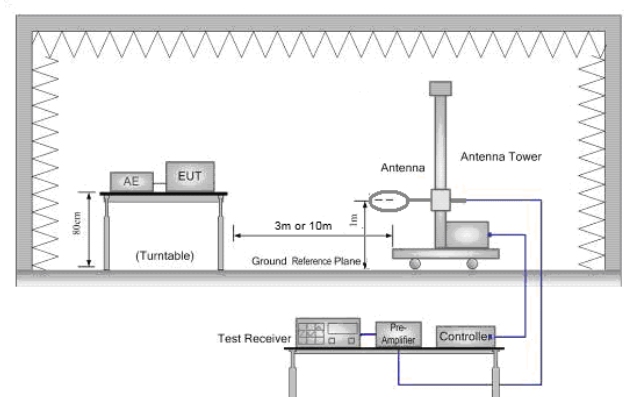


Figure 1. Below 30MHz

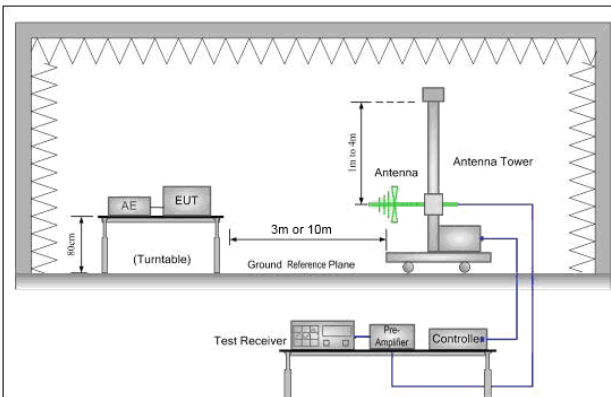


Figure 2. 30MHz to 1GHz

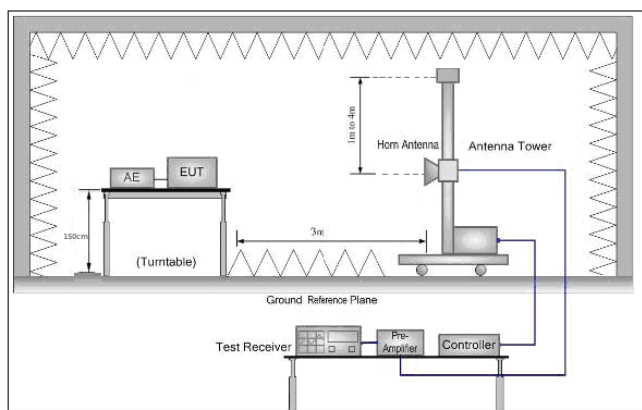


Figure 3. Above 1 GHz

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).



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	Duty cycle = On time/100 milliseconds On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$ 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. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. i. Test the EUT in the lowest channel, the middle channel, the Highest channel. 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. k. Repeat above procedures until all frequencies measured was complete.
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)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/AX(HE40); 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. For AX OFDM/OFDMA, through Pre-scan, find OFDM is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

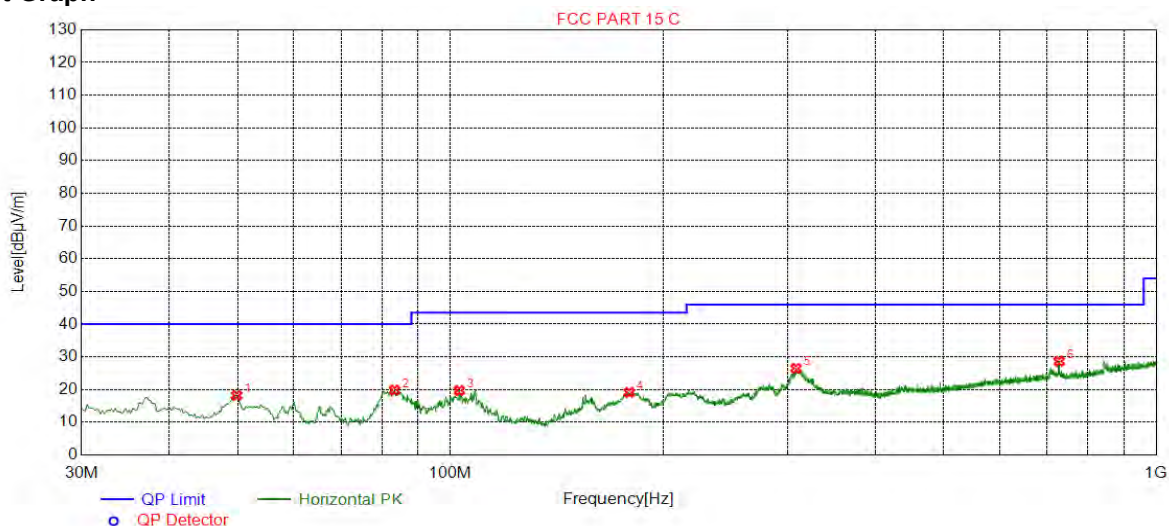


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4.9.1 Radiated emission below 1GHz

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.7920	18.21	40.00	21.79	162	284	Horizontal
2	83.3607	19.83	40.00	20.17	168	290	Horizontal
3	102.9586	19.71	43.50	23.79	224	80	Horizontal
4	179.2158	19.13	43.50	24.37	190	205	Horizontal
5	308.8338	26.50	46.00	19.50	173	329	Horizontal
6	728.7337	28.66	46.00	17.34	132	51	Horizontal

Final Data List



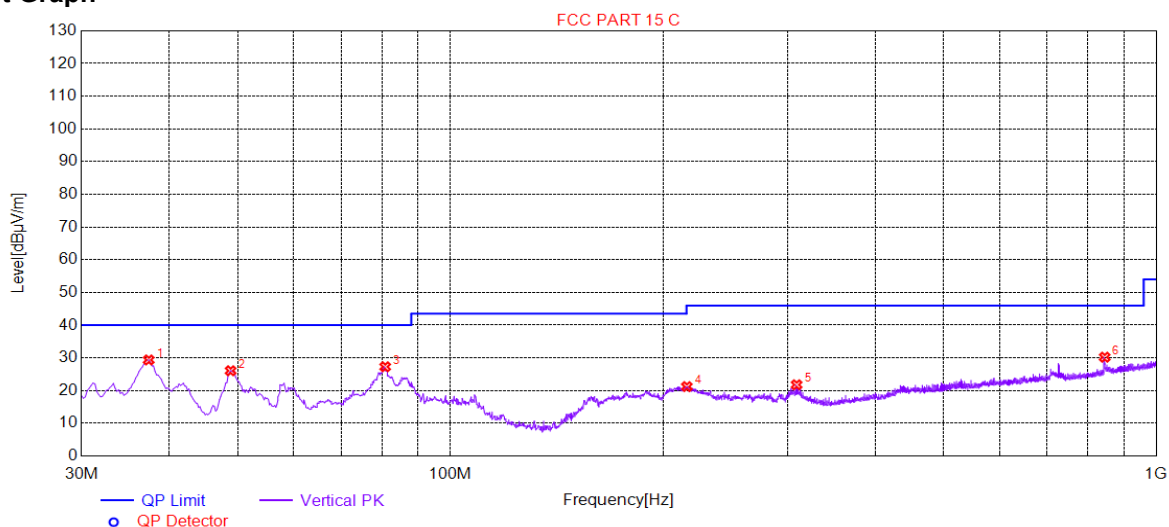
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Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	29.38	40.00	10.62	158	346	Vertical
2	48.8218	26.07	40.00	13.93	165	346	Vertical
3	80.8382	27.29	40.00	12.71	159	253	Vertical
4	216.2773	21.22	46.00	24.78	258	306	Vertical
5	309.4159	21.79	46.00	24.21	193	342	Vertical
6	845.3511	30.22	46.00	15.78	275	63	Vertical

Final Data List

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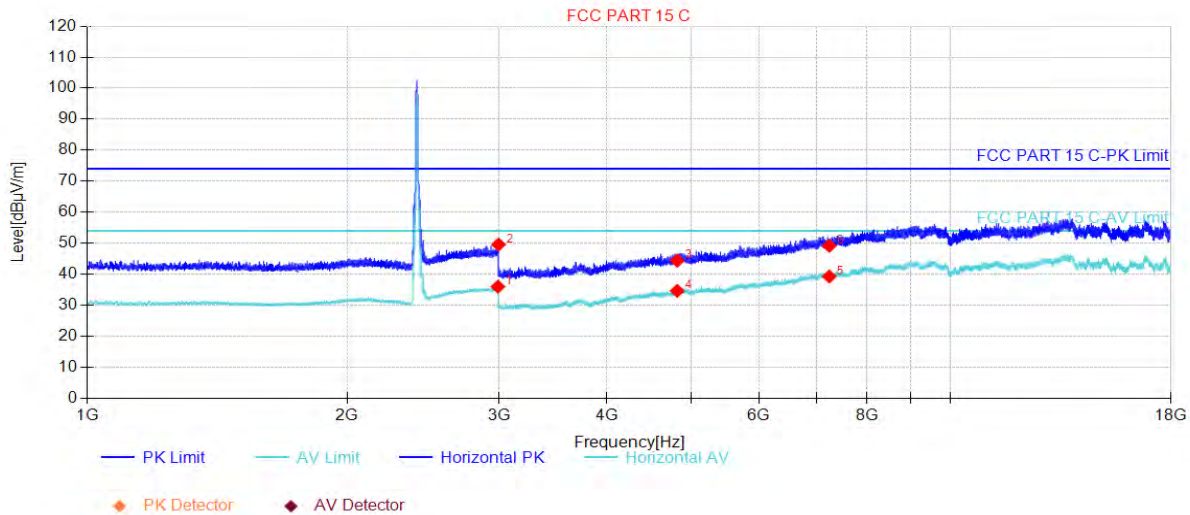


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4.9.2 Transmitter emission above 1GHz

4.9.2.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.599	35.96	7.37	54.00	18.04	132	Horizontal
2	2994.999	49.55	7.39	74.00	24.45	182	Horizontal
3	4824.000	44.36	-10.56	74.00	29.64	163	Horizontal
4	4824.000	34.60	-10.56	54.00	19.40	175	Horizontal
5	7236.000	39.24	-2.59	54.00	14.76	133	Horizontal
6	7236.000	49.15	-2.59	74.00	24.85	185	Horizontal

Final Data List



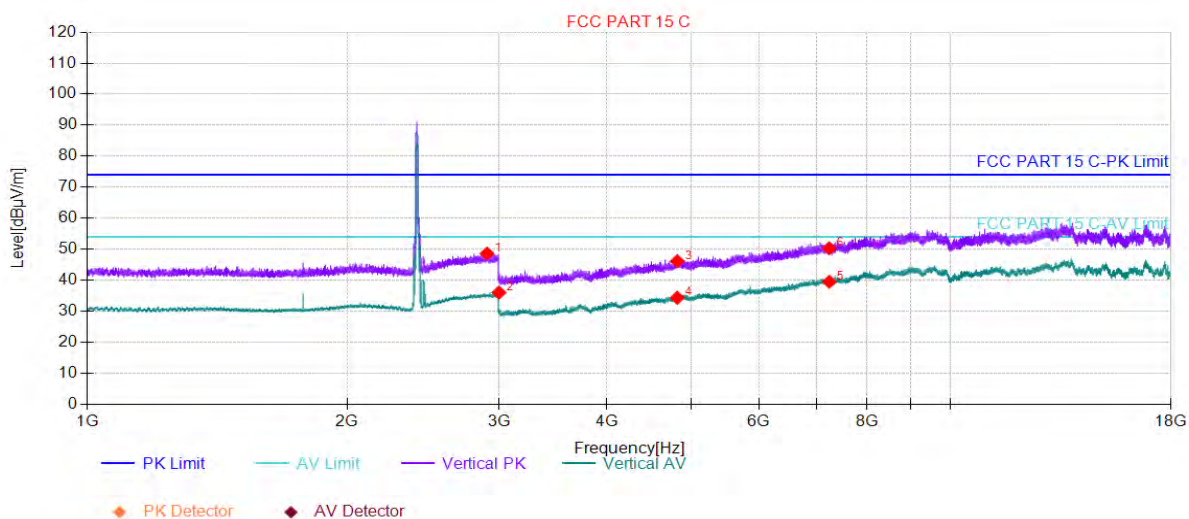
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4.9.2.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2904.190	48.57	6.97	74.00	25.43	352	Vertical
2	2998.199	35.98	7.40	54.00	18.02	256	Vertical
3	4824.000	46.13	-10.56	74.00	27.87	382	Vertical
4	4824.000	34.31	-10.56	54.00	19.69	241	Vertical
5	7236.000	39.48	-2.59	54.00	14.52	287	Vertical
6	7236.000	50.30	-2.59	74.00	23.70	277	Vertical

Final Data List

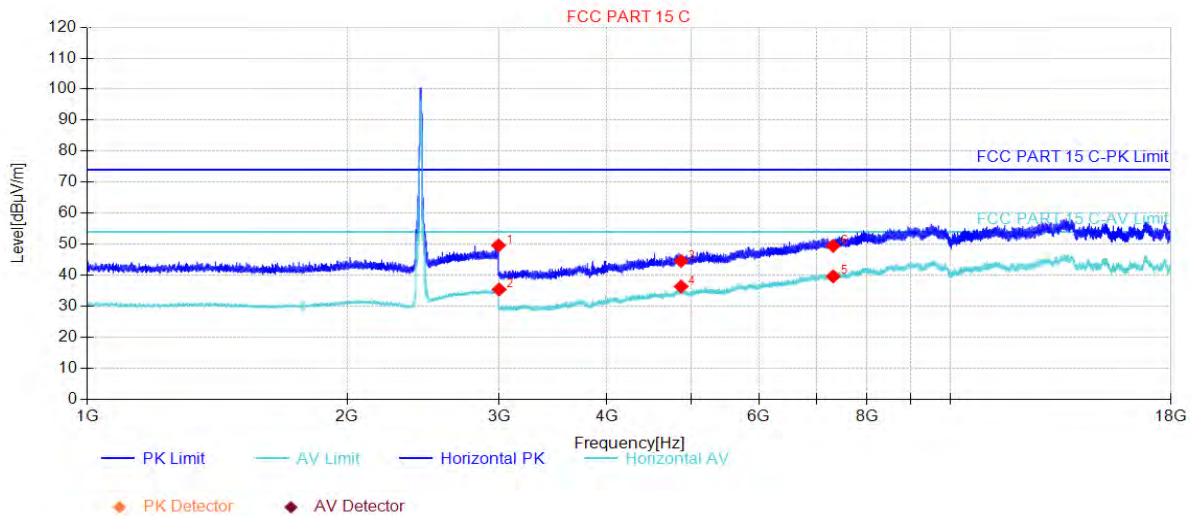


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4.9.2.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.599	49.59	7.39	74.00	24.41	174	Horizontal
2	2999.399	35.39	7.41	54.00	18.61	192	Horizontal
3	4874.000	44.57	-10.40	74.00	29.43	155	Horizontal
4	4874.000	36.33	-10.40	54.00	17.67	162	Horizontal
5	7311.000	39.61	-2.58	54.00	14.39	144	Horizontal
6	7311.000	49.45	-2.58	74.00	24.55	188	Horizontal

Final Data List



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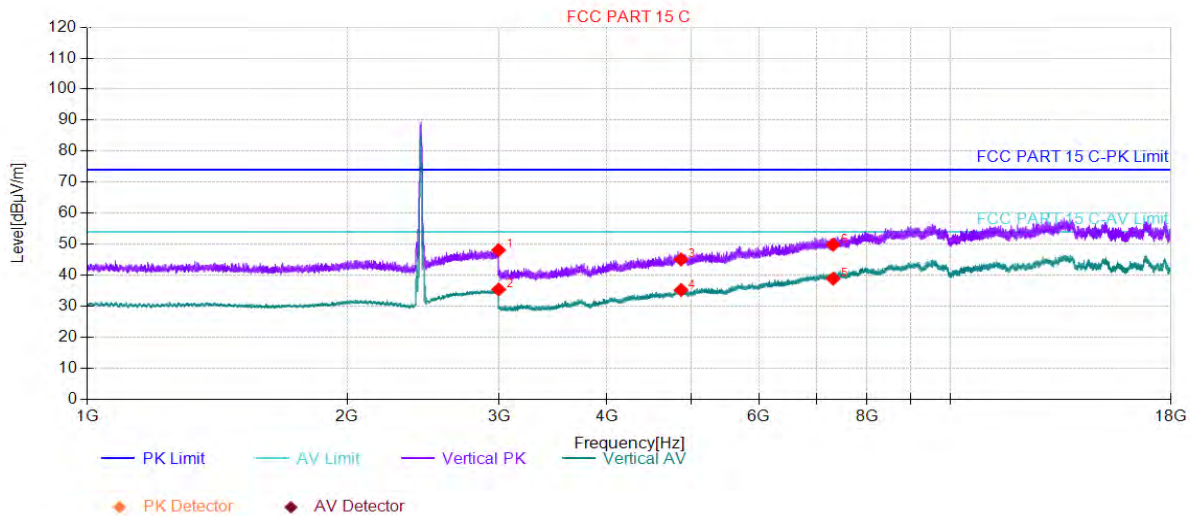
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4.9.2.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.399	48.10	7.39	74.00	25.90	392	Vertical
2	2996.399	35.38	7.39	54.00	18.62	255	Vertical
3	4874.000	45.06	-10.40	74.00	28.94	268	Vertical
4	4874.000	35.21	-10.40	54.00	18.79	216	Vertical
5	7311.000	38.86	-2.58	54.00	15.14	222	Vertical
6	7311.000	49.83	-2.58	74.00	24.17	266	Vertical

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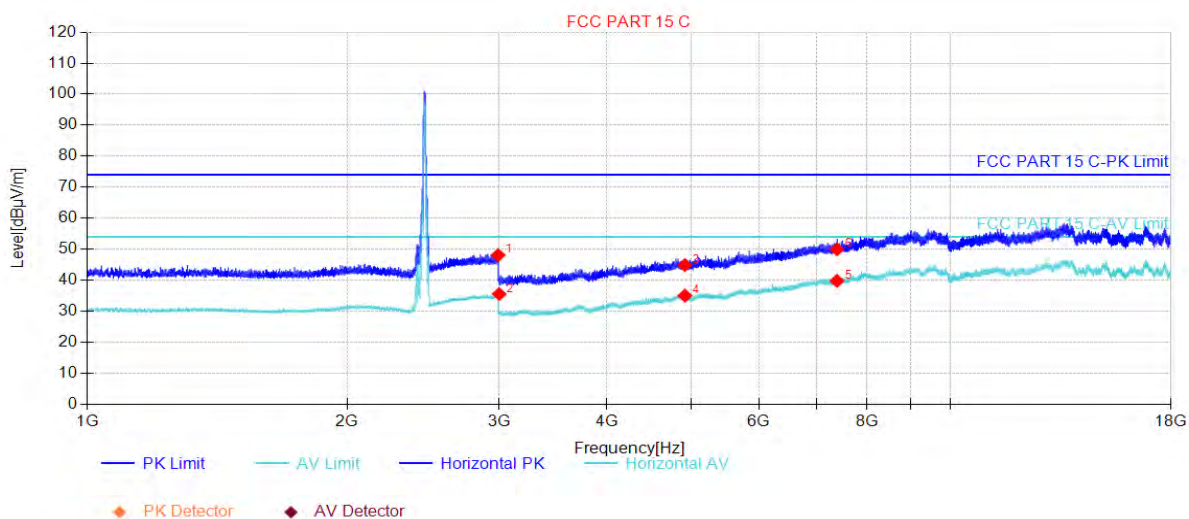


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4.9.2.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.999	48.07	7.37	74.00	25.93	182	Horizontal
2	3000.000	35.52	7.41	54.00	18.48	161	Horizontal
3	4924.000	44.85	-10.22	74.00	29.15	177	Horizontal
4	4924.000	35.00	-10.22	54.00	19.00	192	Horizontal
5	7386.000	39.77	-2.06	54.00	14.23	155	Horizontal
6	7386.000	49.95	-2.06	74.00	24.05	153	Horizontal

Final Data List

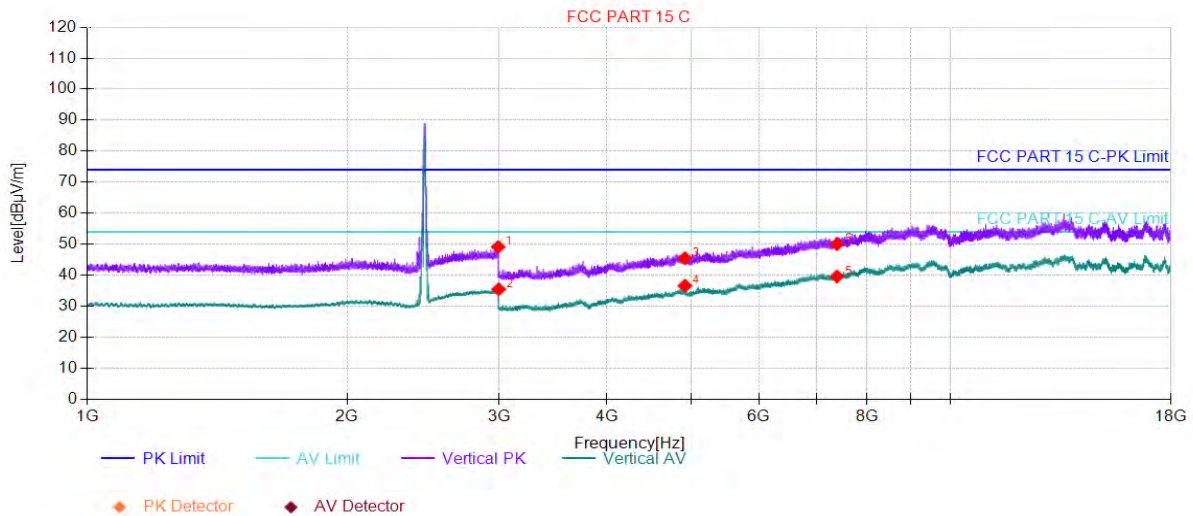


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4.9.2.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.399	49.12	7.38	74.00	24.88	382	Vertical
2	2996.199	35.44	7.39	54.00	18.56	222	Vertical
3	4924.000	45.42	-10.22	74.00	28.58	252	Vertical
4	4924.000	36.58	-10.22	54.00	17.42	233	Vertical
5	7386.000	39.56	-2.06	54.00	14.44	284	Vertical
6	7386.000	50.00	-2.06	74.00	24.00	292	Vertical

Final Data List



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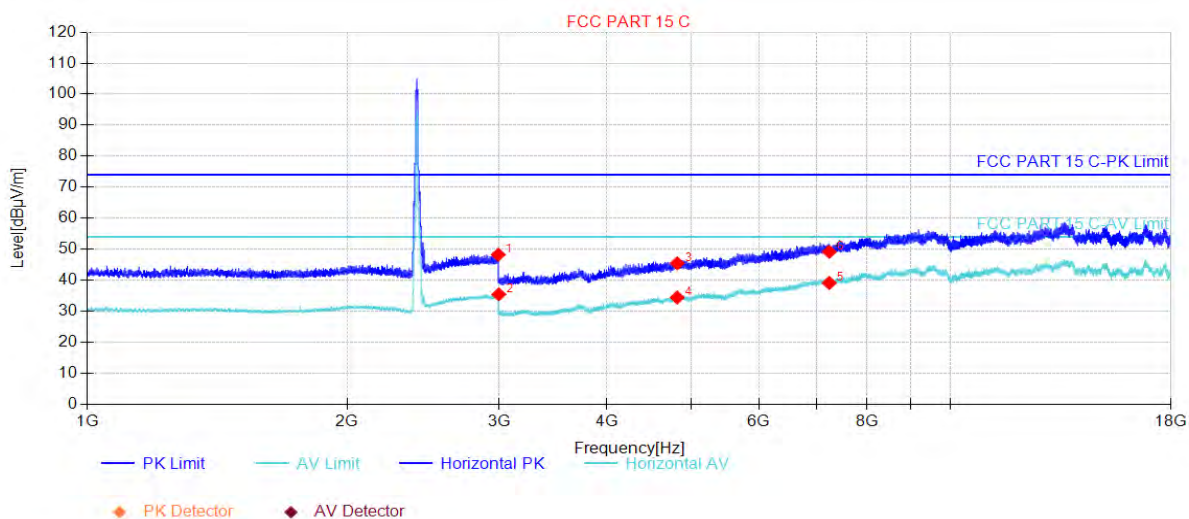
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4.9.2.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.799	48.22	7.38	74.00	25.78	177	Horizontal
2	2997.199	35.41	7.40	54.00	18.59	182	Horizontal
3	4824.000	45.43	-10.56	74.00	28.57	189	Horizontal
4	4824.000	34.40	-10.56	54.00	19.60	175	Horizontal
5	7236.000	39.10	-2.59	54.00	14.90	164	Horizontal
6	7236.000	49.13	-2.59	74.00	24.87	144	Horizontal

Final Data List

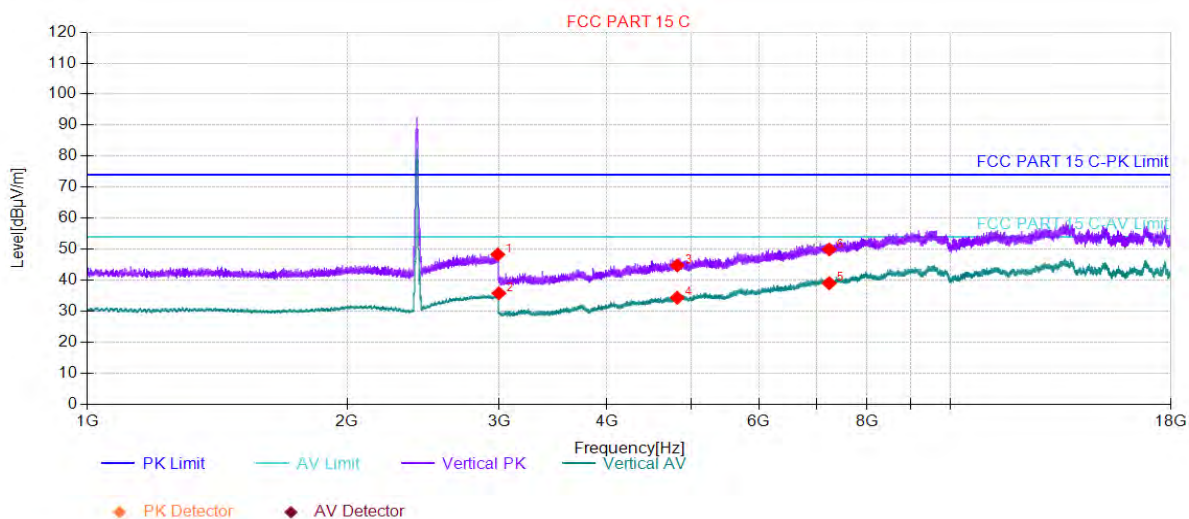


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4.9.2.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2989.398	48.28	7.36	74.00	25.72	365	Vertical
2	2998.199	35.78	7.40	54.00	18.22	343	Vertical
3	4824.000	44.76	-10.56	74.00	29.24	212	Vertical
4	4824.000	34.33	-10.56	54.00	19.67	287	Vertical
5	7236.000	39.02	-2.59	54.00	14.98	284	Vertical
6	7236.000	49.91	-2.59	74.00	24.09	292	Vertical

Final Data List

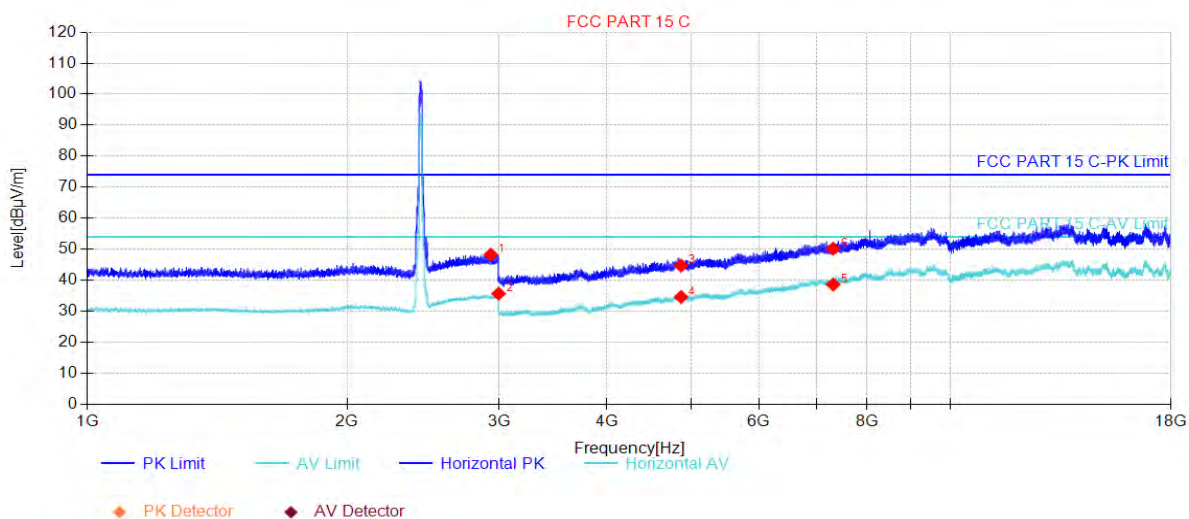


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4.9.2.9 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2933.993	48.24	7.11	74.00	25.76	152	Horizontal
2	2995.199	35.65	7.39	54.00	18.35	184	Horizontal
3	4874.000	44.70	-10.40	74.00	29.30	192	Horizontal
4	4874.000	34.58	-10.40	54.00	19.42	163	Horizontal
5	7311.000	38.59	-2.58	54.00	15.41	176	Horizontal
6	7311.000	50.16	-2.58	74.00	23.84	162	Horizontal

Final Data List

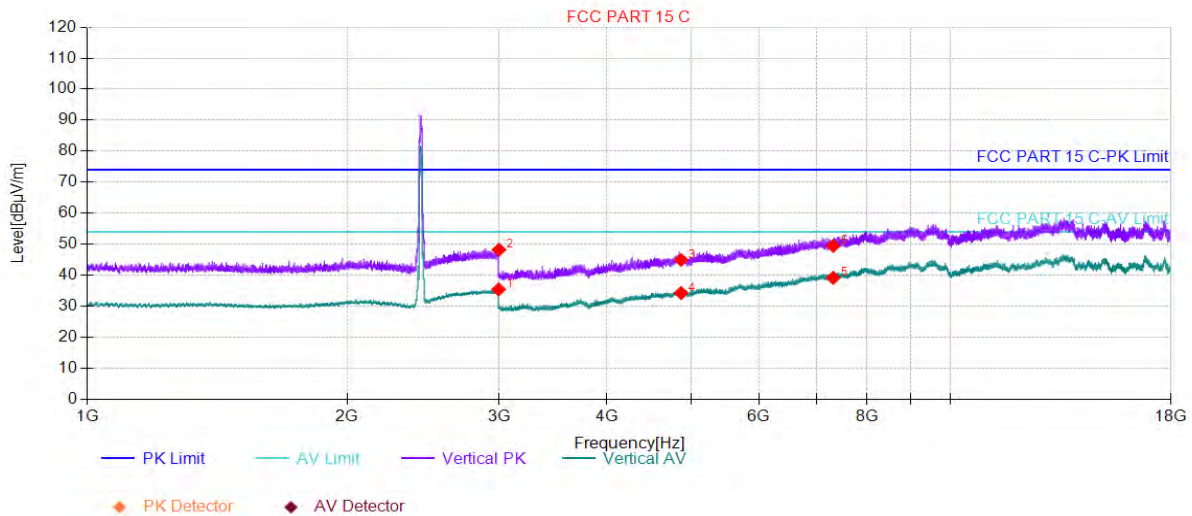


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4.9.2.10 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.999	35.40	7.39	54.00	18.60	373	Vertical
2	2998.799	48.21	7.40	74.00	25.79	207	Vertical
3	4874.000	44.92	-10.40	74.00	29.08	287	Vertical
4	4874.000	34.22	-10.40	54.00	19.78	265	Vertical
5	7311.000	39.14	-2.58	54.00	14.86	252	Vertical
6	7311.000	49.43	-2.58	74.00	24.57	235	Vertical

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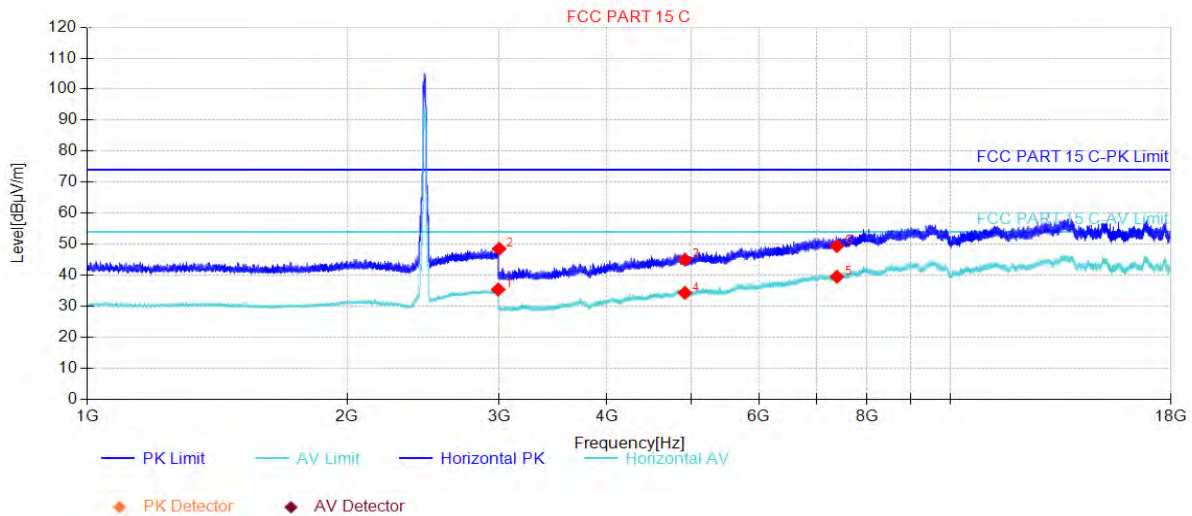
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4.9.2.11 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.799	35.37	7.37	54.00	18.63	142	Horizontal
2	2999.800	48.51	7.41	74.00	25.49	125	Horizontal
3	4924.000	45.01	-10.22	74.00	28.99	127	Horizontal
4	4924.000	34.28	-10.22	54.00	19.72	176	Horizontal
5	7386.000	39.48	-2.06	54.00	14.52	178	Horizontal
6	7386.000	49.39	-2.06	74.00	24.61	183	Horizontal

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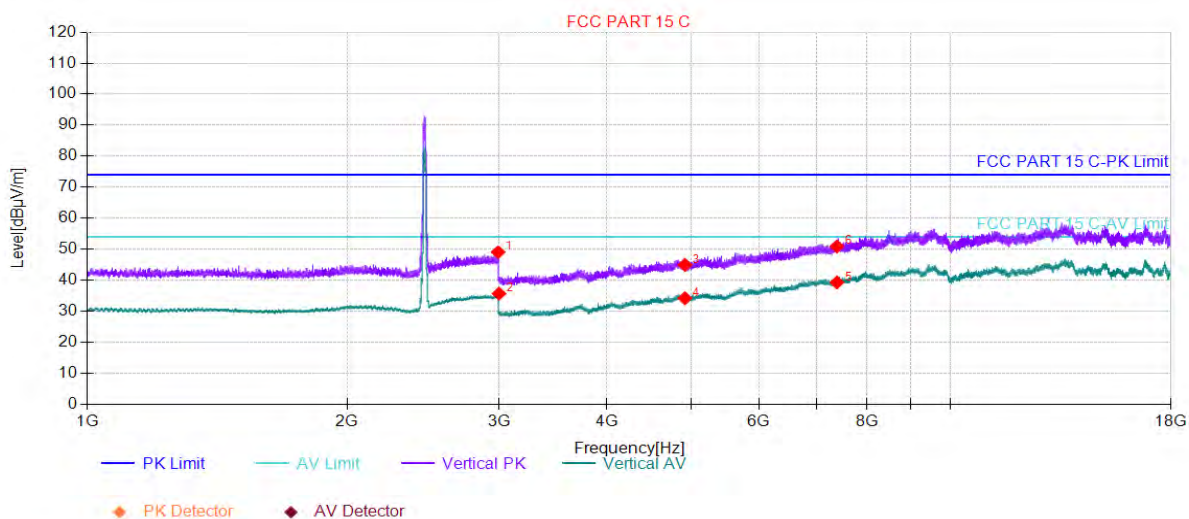
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4.9.2.12 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.399	49.06	7.37	74.00	24.94	386	Vertical
2	2999.199	35.67	7.41	54.00	18.33	388	Vertical
3	4924.000	44.92	-10.22	74.00	29.08	254	Vertical
4	4924.000	34.16	-10.22	54.00	19.84	246	Vertical
5	7386.000	39.26	-2.06	54.00	14.74	274	Vertical
6	7386.000	50.89	-2.06	74.00	23.11	269	Vertical

Final Data List

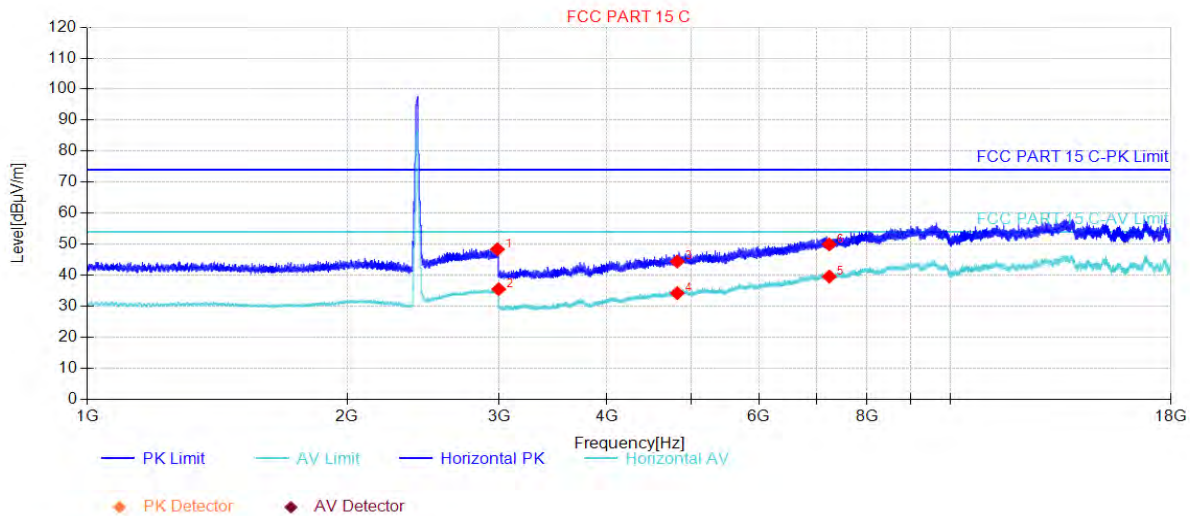


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4.9.2.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2986.598	48.35	7.35	74.00	25.65	189	Horizontal
2	2995.999	35.47	7.39	54.00	18.53	272	Horizontal
3	4824.000	44.40	-10.56	74.00	29.60	175	Horizontal
4	4824.000	34.20	-10.56	54.00	19.80	164	Horizontal
5	7236.000	39.55	-2.59	54.00	14.45	133	Horizontal
6	7236.000	49.92	-2.59	74.00	24.08	187	Horizontal

Final Data List



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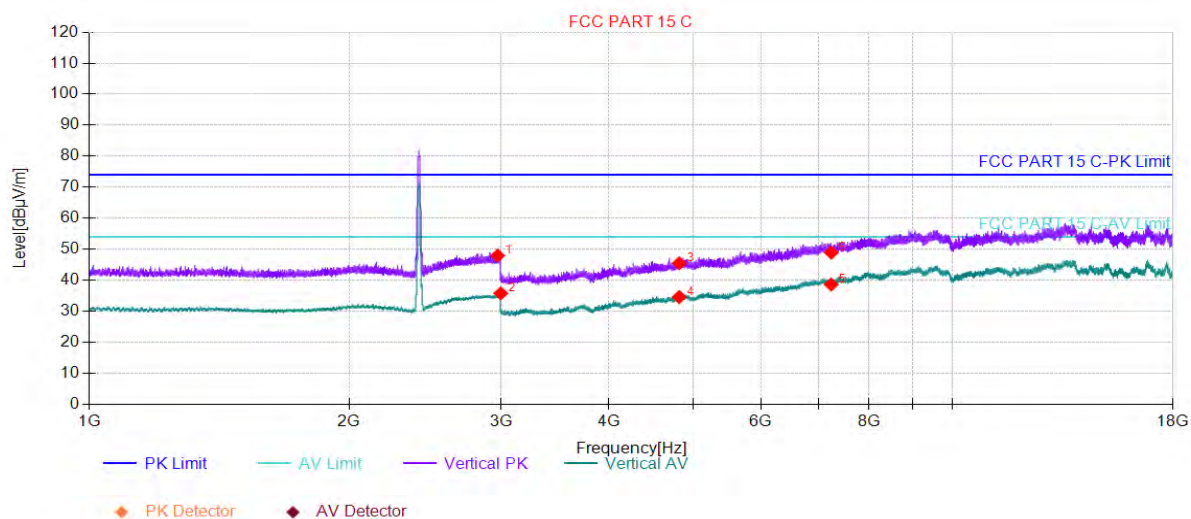
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4.9.2.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2972.197	47.92	7.28	74.00	26.08	203	Vertical
2	2997.399	35.75	7.40	54.00	18.25	294	Vertical
3	4824.000	45.45	-10.56	74.00	28.55	307	Vertical
4	4824.000	34.55	-10.56	54.00	19.45	284	Vertical
5	7236.000	38.59	-2.59	54.00	15.41	296	Vertical
6	7236.000	48.91	-2.59	74.00	25.09	211	Vertical

Final Data List



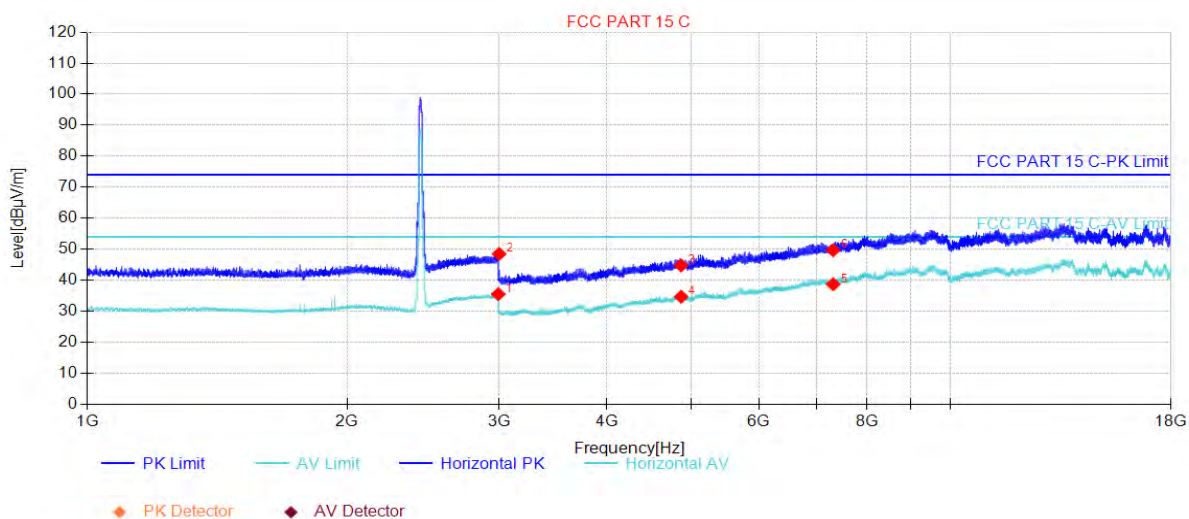
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4.9.2.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.999	35.47	7.38	54.00	18.53	157	Horizontal
2	2999.399	48.43	7.41	74.00	25.57	162	Horizontal
3	4874.000	44.75	-10.40	74.00	29.25	174	Horizontal
4	4874.000	34.65	-10.40	54.00	19.35	127	Horizontal
5	7311.000	38.66	-2.58	54.00	15.34	187	Horizontal
6	7311.000	49.66	-2.58	74.00	24.34	189	Horizontal

Final Data List

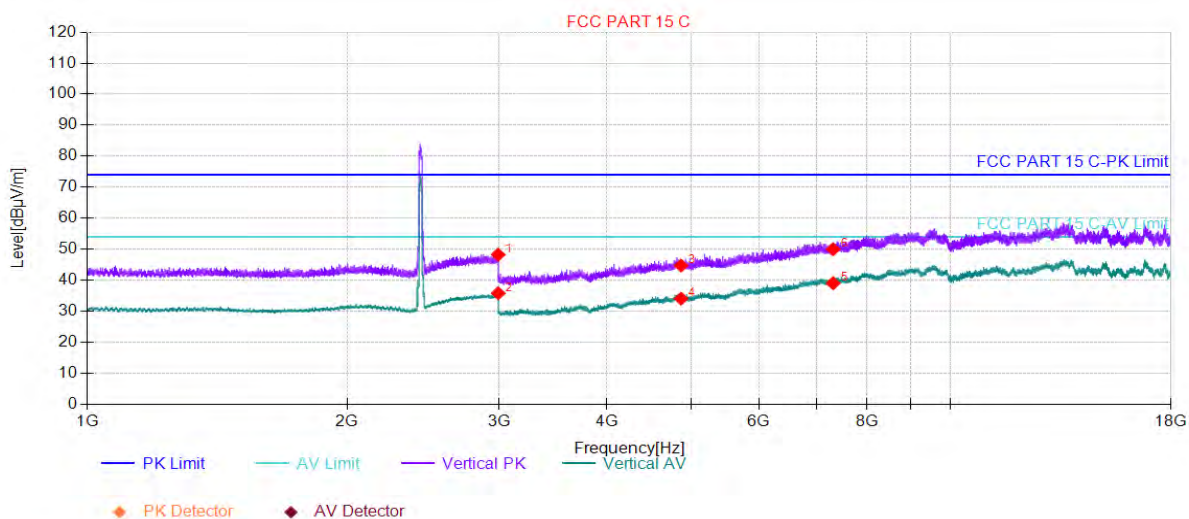


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4.9.2.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.999	48.23	7.37	74.00	25.77	373	Vertical
2	2992.799	35.78	7.38	54.00	18.22	341	Vertical
3	4874.000	44.72	-10.40	74.00	29.28	278	Vertical
4	4874.000	34.02	-10.40	54.00	19.98	292	Vertical
5	7311.000	39.01	-2.58	54.00	14.99	204	Vertical
6	7311.000	49.99	-2.58	74.00	24.01	255	Vertical

Final Data List

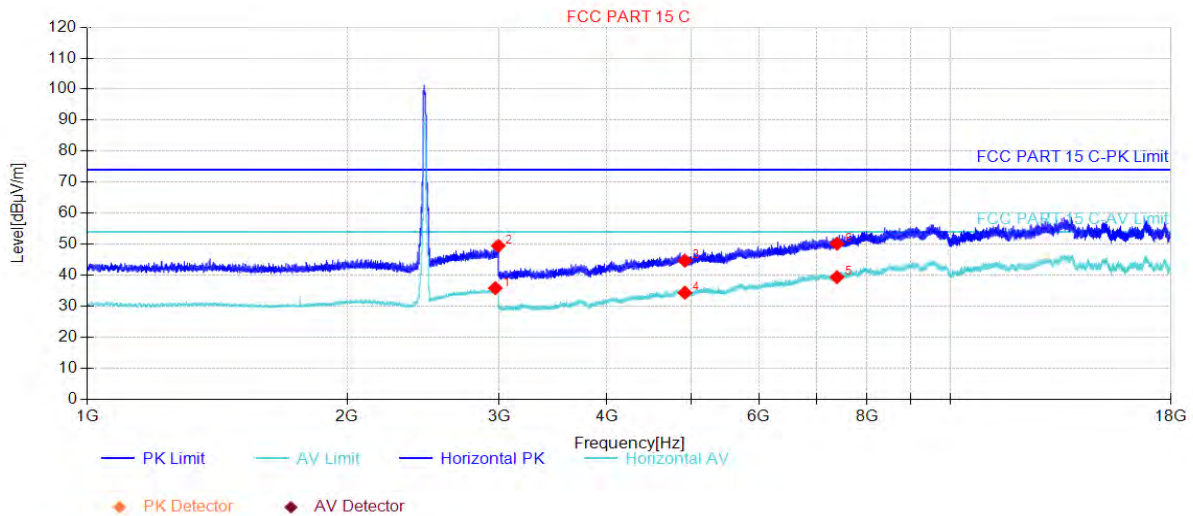


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4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2969.396	35.81	7.27	54.00	18.19	174	Horizontal
2	2992.999	49.48	7.38	74.00	24.52	151	Horizontal
3	4924.000	44.67	-10.22	74.00	29.33	182	Horizontal
4	4924.000	34.31	-10.22	54.00	19.69	191	Horizontal
5	7386.000	39.33	-2.06	54.00	14.67	179	Horizontal
6	7386.000	50.15	-2.06	74.00	23.85	188	Horizontal

Final Data List

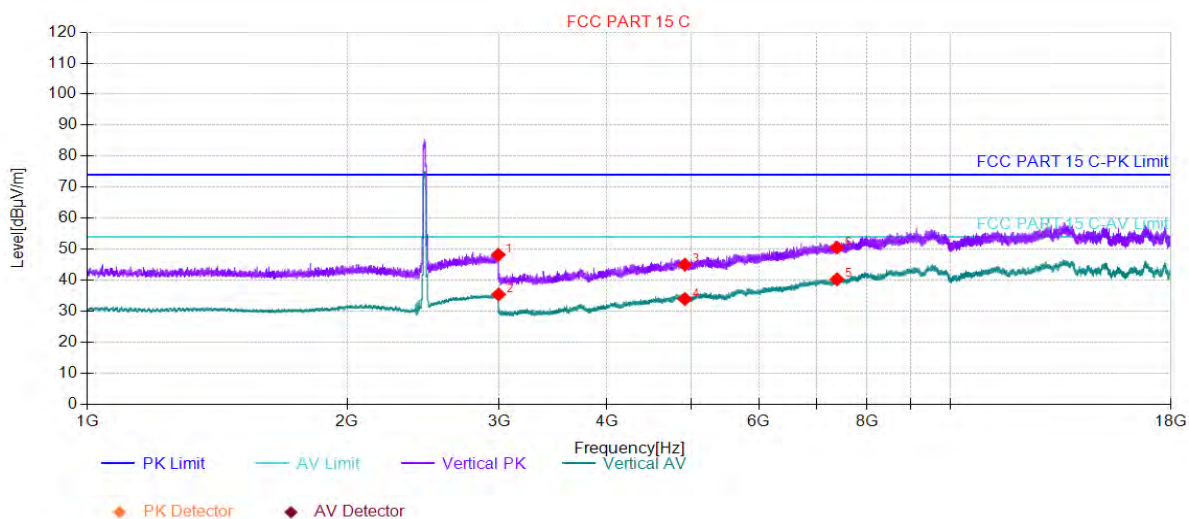


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4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.799	48.19	7.38	74.00	25.81	351	Vertical
2	2995.399	35.39	7.39	54.00	18.61	285	Vertical
3	4924.000	45.01	-10.22	74.00	28.99	369	Vertical
4	4924.000	33.93	-10.22	54.00	20.07	292	Vertical
5	7386.000	40.28	-2.06	54.00	13.72	206	Vertical
6	7386.000	50.52	-2.06	74.00	23.48	274	Vertical

Final Data List

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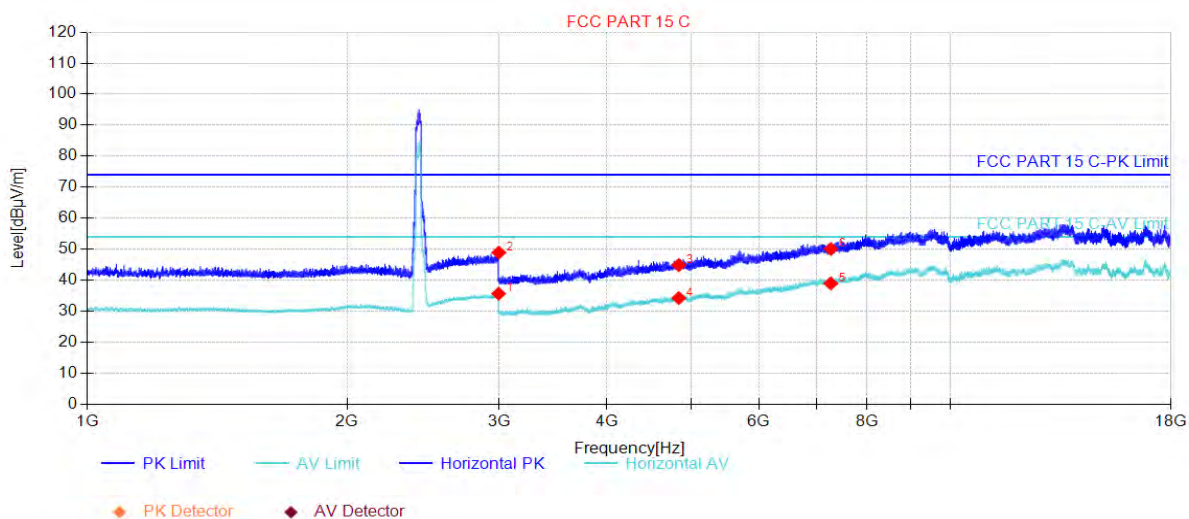
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4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.799	35.64	7.39	54.00	18.36	184	Horizontal
2	2997.599	48.91	7.40	74.00	25.09	162	Horizontal
3	4844.000	44.85	-10.50	74.00	29.15	177	Horizontal
4	4844.000	34.22	-10.50	54.00	19.78	122	Horizontal
5	7266.000	38.94	-2.62	54.00	15.06	138	Horizontal
6	7266.000	50.08	-2.62	74.00	23.92	166	Horizontal

Final Data List

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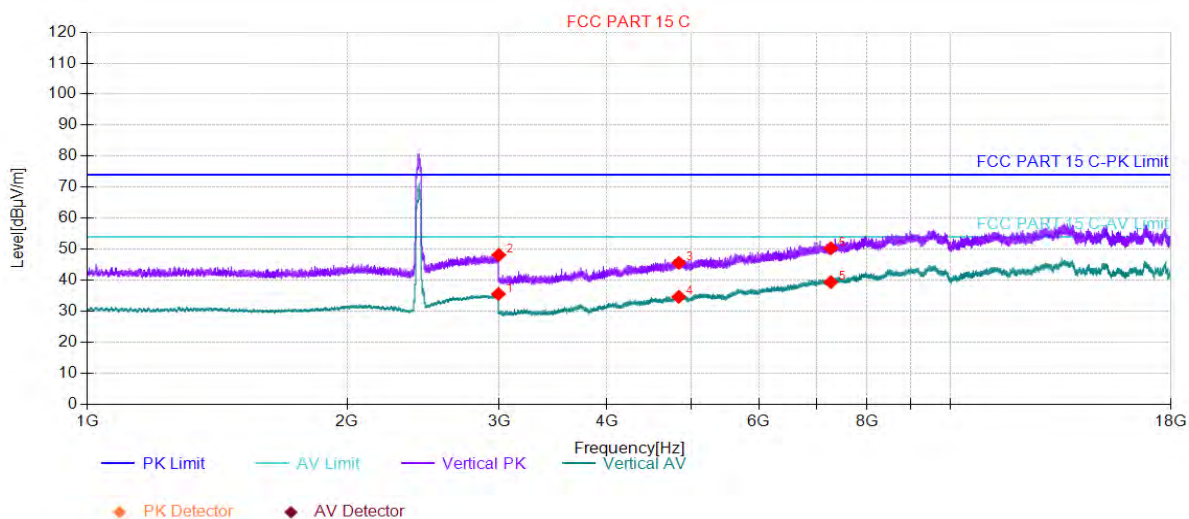
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4.9.2.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.199	35.51	7.38	54.00	18.49	345	Vertical
2	2997.199	48.12	7.40	74.00	25.88	333	Vertical
3	4844.000	45.59	-10.50	74.00	28.41	294	Vertical
4	4844.000	34.62	-10.50	54.00	19.38	272	Vertical
5	7266.000	39.35	-2.62	54.00	14.65	263	Vertical
6	7266.000	50.30	-2.62	74.00	23.70	251	Vertical

Final Data List



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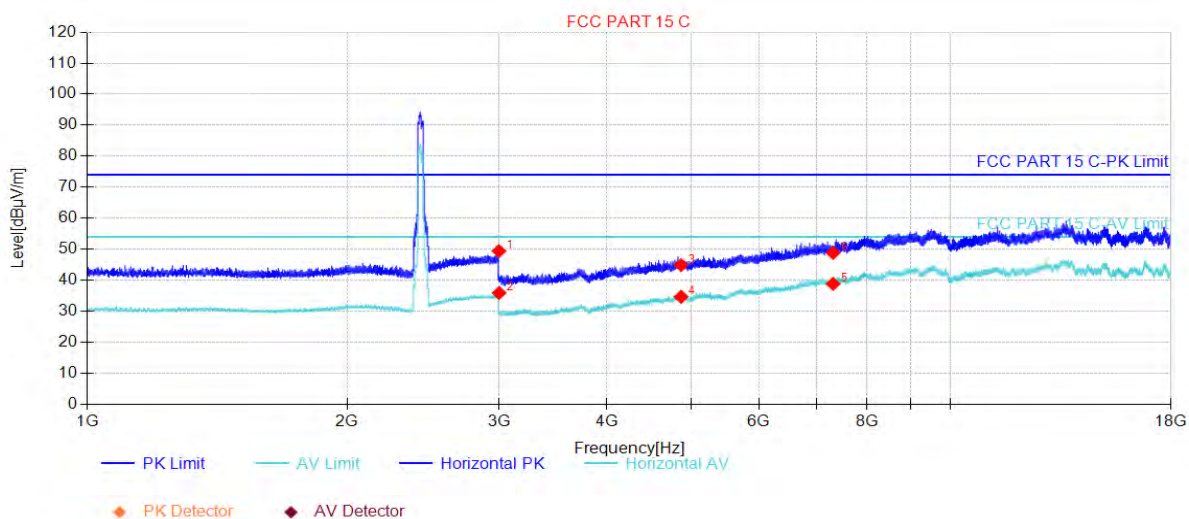
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4.9.2.21 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2998.599	49.39	7.40	74.00	24.61	174	Horizontal
2	2999.600	35.86	7.41	54.00	18.14	155	Horizontal
3	4874.000	44.88	-10.40	74.00	29.12	162	Horizontal
4	4874.000	34.64	-10.40	54.00	19.36	182	Horizontal
5	7311.000	38.80	-2.58	54.00	15.20	106	Horizontal
6	7311.000	48.80	-2.58	74.00	25.20	111	Horizontal

Final Data List

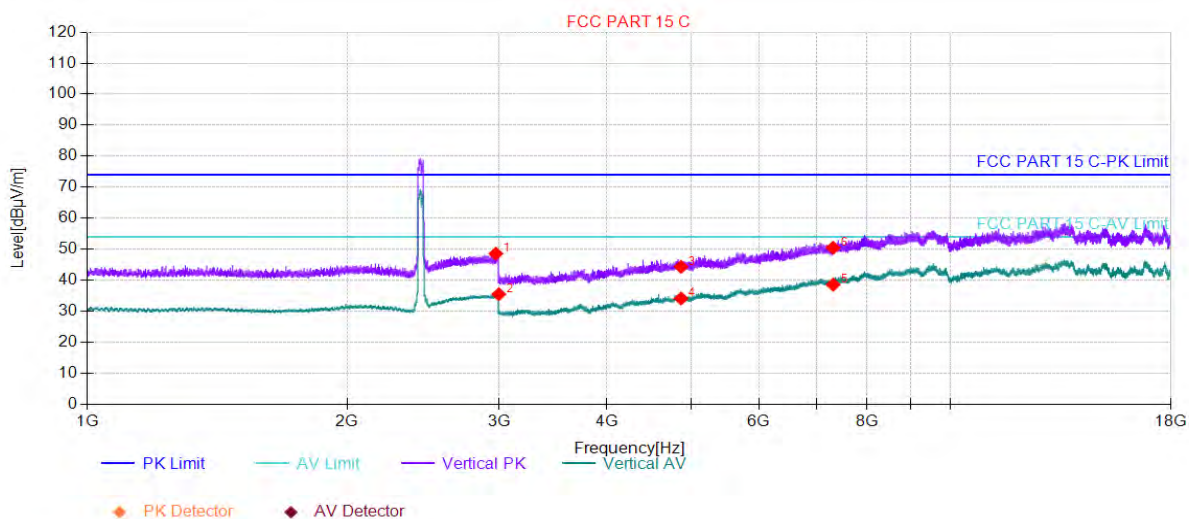


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4.9.2.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2974.197	48.55	7.29	74.00	25.45	372	Vertical
2	2997.399	35.46	7.40	54.00	18.54	222	Vertical
3	4874.000	44.29	-10.40	74.00	29.71	238	Vertical
4	4874.000	34.06	-10.40	54.00	19.94	272	Vertical
5	7311.000	38.55	-2.58	54.00	15.45	278	Vertical
6	7311.000	50.44	-2.58	74.00	23.56	383	Vertical

Final Data List

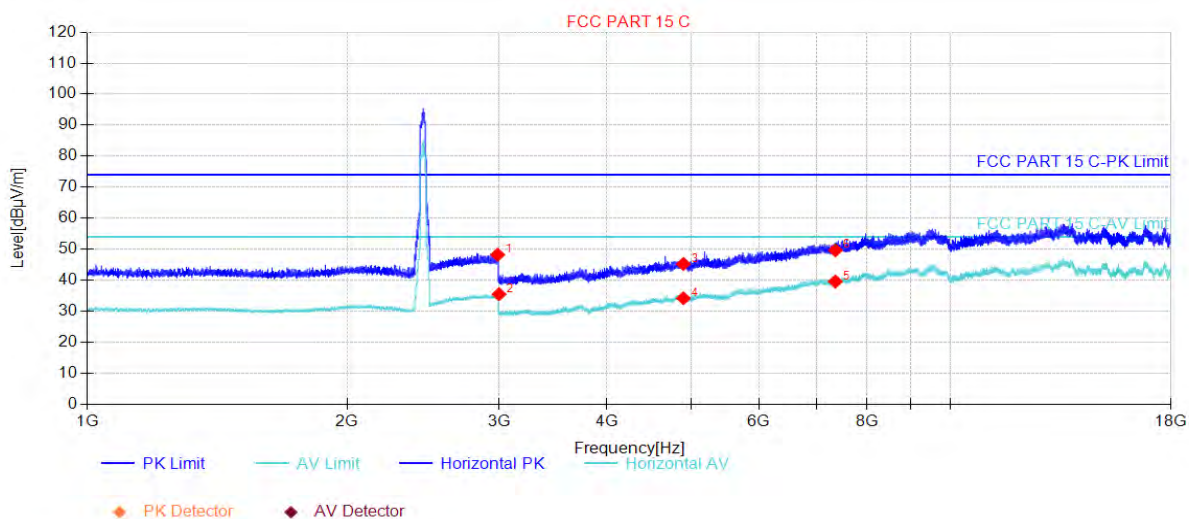


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4.9.2.23 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.798	48.21	7.35	74.00	25.79	177	Horizontal
2	2998.999	35.46	7.41	54.00	18.54	187	Horizontal
3	4904.000	45.22	-10.30	74.00	28.78	168	Horizontal
4	4904.000	34.15	-10.30	54.00	19.85	192	Horizontal
5	7356.000	39.57	-2.27	54.00	14.43	132	Horizontal
6	7356.000	49.64	-2.27	74.00	24.36	157	Horizontal

Final Data List

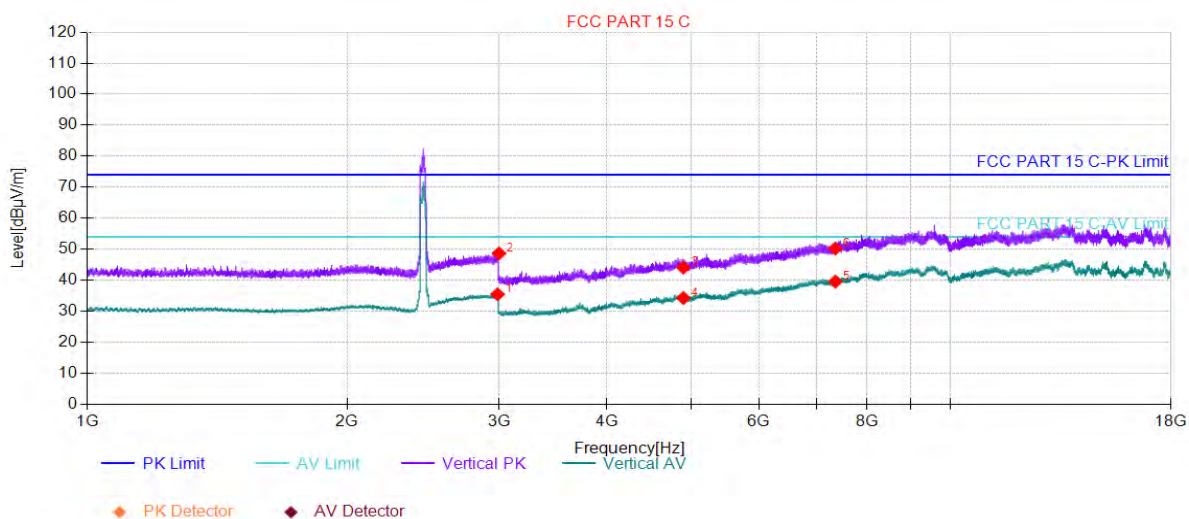


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4.9.2.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.398	35.43	7.35	54.00	18.57	286	Vertical
2	2998.599	48.63	7.40	74.00	25.37	364	Vertical
3	4904.000	44.04	-10.30	74.00	29.96	385	Vertical
4	4904.000	34.23	-10.30	54.00	19.77	293	Vertical
5	7356.000	39.56	-2.27	54.00	14.44	202	Vertical
6	7356.000	50.23	-2.27	74.00	23.77	366	Vertical

Final Data List

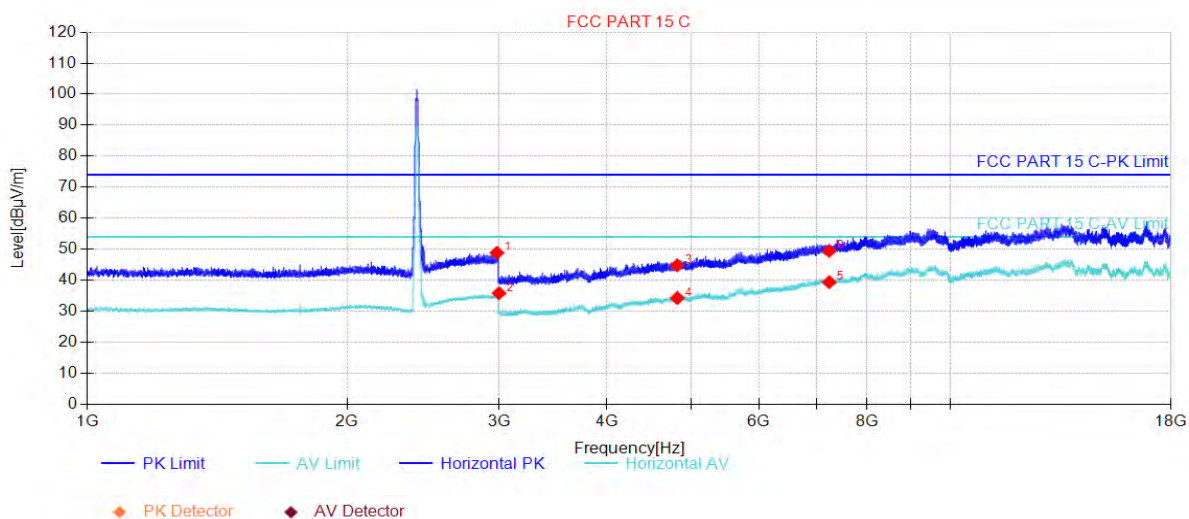


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4.9.2.25 802.11AX20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2982.398	48.81	7.33	74.00	25.19	173	Horizontal
2	2998.999	35.79	7.41	54.00	18.21	162	Horizontal
3	4824.000	44.78	-10.56	74.00	29.22	152	Horizontal
4	4824.000	34.23	-10.56	54.00	19.77	189	Horizontal
5	7236.000	39.37	-2.59	54.00	14.63	186	Horizontal
6	7236.000	49.45	-2.59	74.00	24.55	137	Horizontal

Final Data List

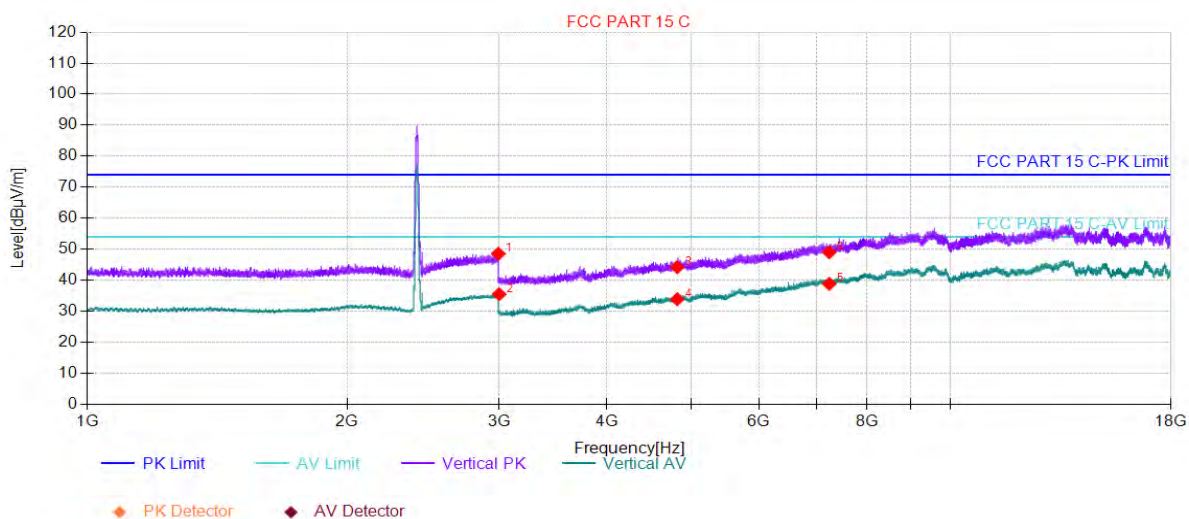


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4.9.2.26 802.11AX20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2992.999	48.51	7.38	74.00	25.49	373	Vertical
2	3000.000	35.48	7.41	54.00	18.52	320	Vertical
3	4824.000	44.17	-10.56	74.00	29.83	271	Vertical
4	4824.000	33.85	-10.56	54.00	20.15	287	Vertical
5	7236.000	38.81	-2.59	54.00	15.19	247	Vertical
6	7236.000	48.99	-2.59	74.00	25.01	272	Vertical

Final Data List

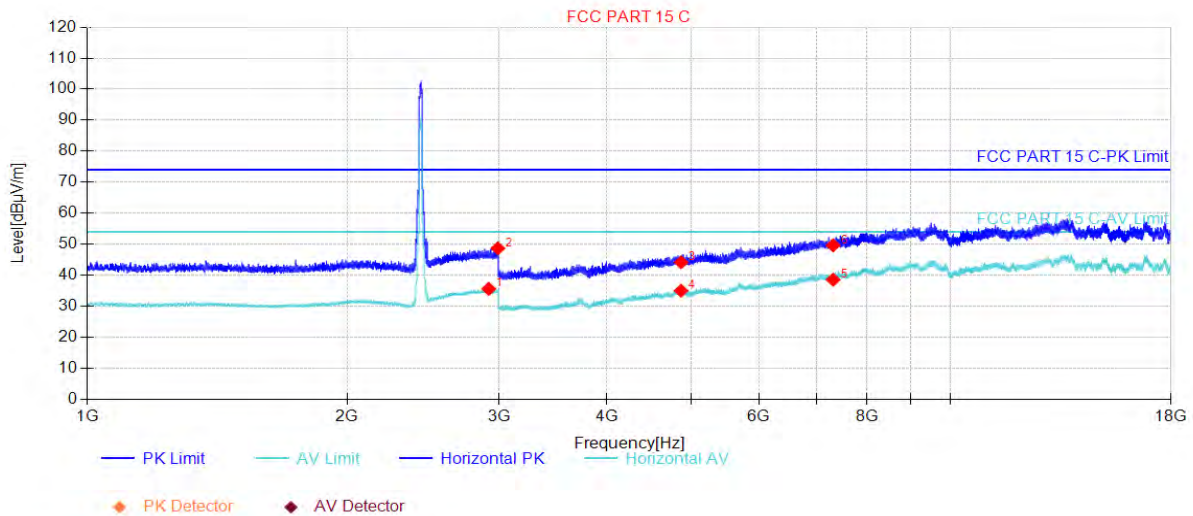


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4.9.2.27 802.11AX20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2917.991	35.55	7.03	54.00	18.45	178	Horizontal
2	2989.799	48.67	7.36	74.00	25.33	125	Horizontal
3	4874.000	44.13	-10.40	74.00	29.87	183	Horizontal
4	4874.000	34.96	-10.40	54.00	19.04	253	Horizontal
5	7311.000	38.54	-2.58	54.00	15.46	145	Horizontal
6	7311.000	49.63	-2.58	74.00	24.37	272	Horizontal

Final Data List

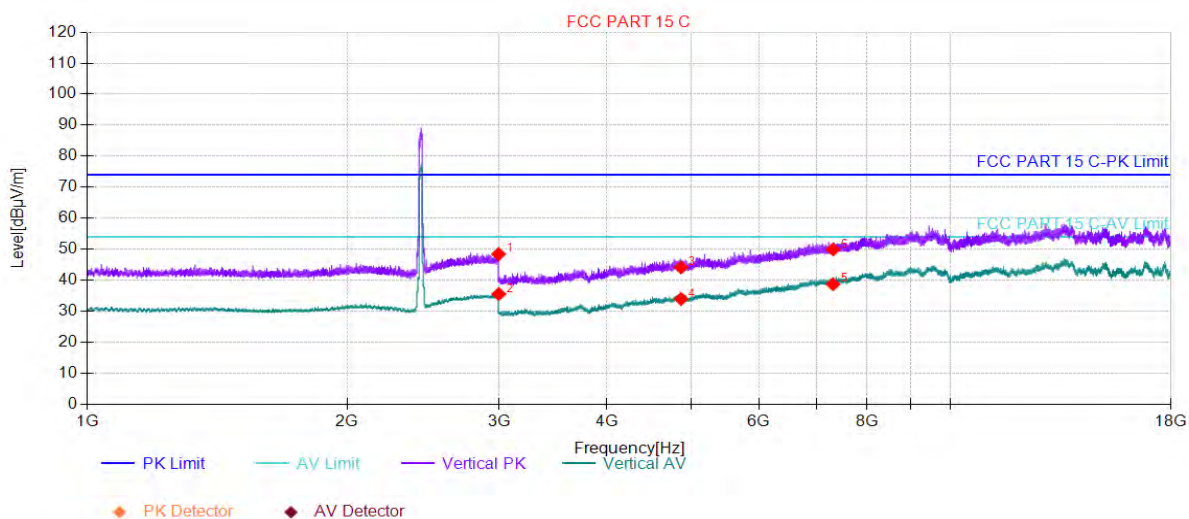


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4.9.2.28 802.11AX20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.999	48.40	7.39	74.00	25.60	234	Vertical
2	2997.199	35.52	7.40	54.00	18.48	245	Vertical
3	4874.000	44.10	-10.40	74.00	29.90	375	Vertical
4	4874.000	33.92	-10.40	54.00	20.08	254	Vertical
5	7311.000	38.69	-2.58	54.00	15.31	211	Vertical
6	7311.000	49.93	-2.58	74.00	24.07	272	Vertical

Final Data List

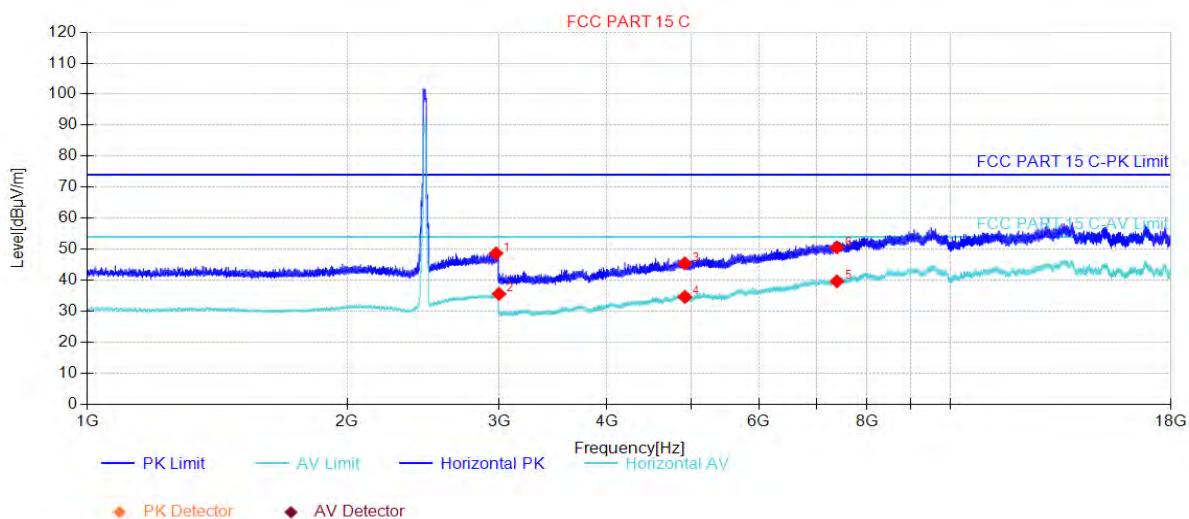


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4.9.2.29 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2975.397	48.65	7.30	74.00	25.35	172	Horizontal
2	2998.799	35.56	7.40	54.00	18.44	152	Horizontal
3	4924.000	45.41	-10.22	74.00	28.59	171	Horizontal
4	4924.000	34.61	-10.22	54.00	19.39	130	Horizontal
5	7386.000	39.62	-2.06	54.00	14.38	178	Horizontal
6	7386.000	50.57	-2.06	74.00	23.43	175	Horizontal

Final Data List

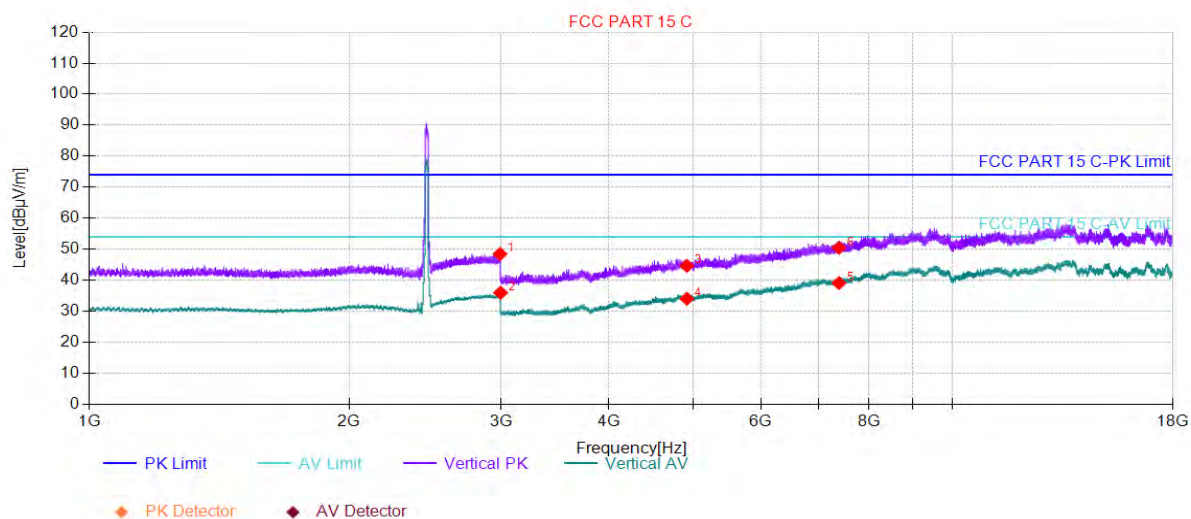


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4.9.2.30 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.799	48.44	7.37	74.00	25.56	389	Vertical
2	2995.799	35.93	7.39	54.00	18.07	272	Vertical
3	4924.000	44.63	-10.22	74.00	29.37	262	Vertical
4	4924.000	34.01	-10.22	54.00	19.99	255	Vertical
5	7386.000	39.06	-2.06	54.00	14.94	285	Vertical
6	7386.000	50.44	-2.06	74.00	23.56	244	Vertical

Final Data List

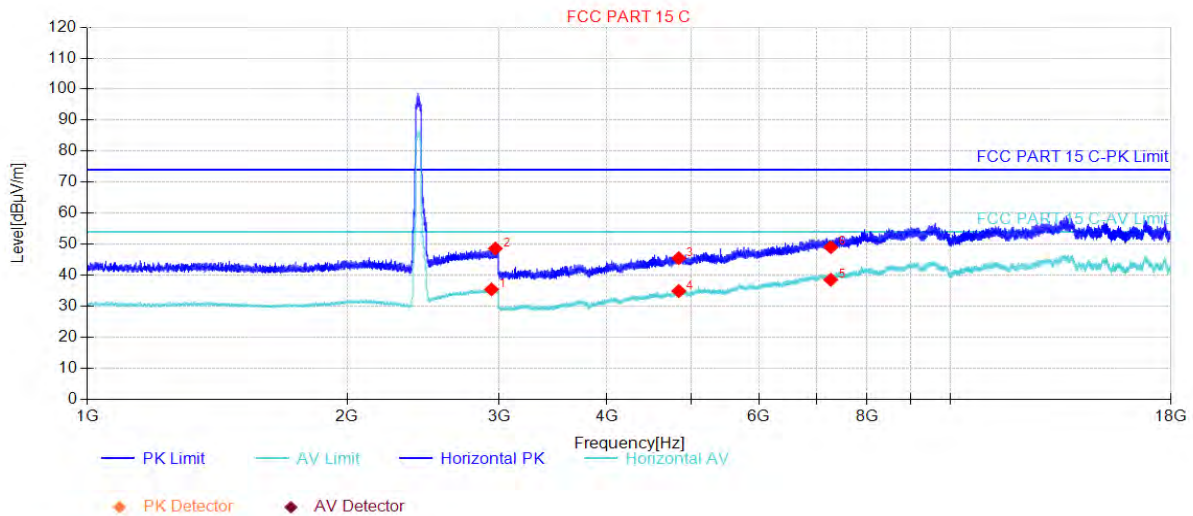


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4.9.2.31 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2939.393	35.39	7.13	54.00	18.61	189	Horizontal
2	2970.197	48.61	7.27	74.00	25.39	175	Horizontal
3	4844.000	45.47	-10.50	74.00	28.53	178	Horizontal
4	4844.000	34.85	-10.50	54.00	19.15	162	Horizontal
5	7266.000	38.52	-2.62	54.00	15.48	183	Horizontal
6	7266.000	49.01	-2.62	74.00	24.99	132	Horizontal

Final Data List

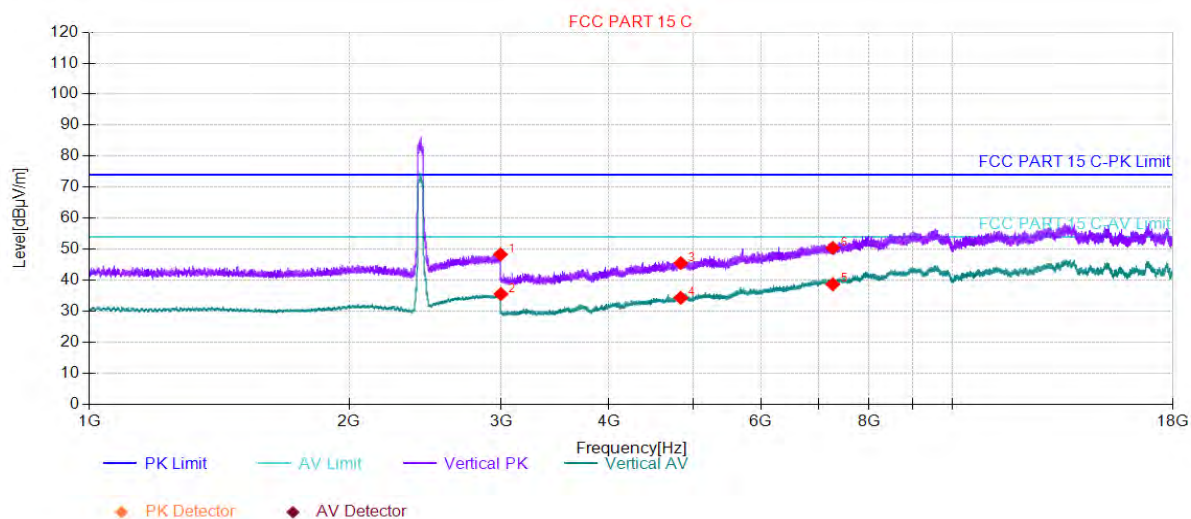


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4.9.2.32 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2994.799	48.30	7.39	74.00	25.70	353	Vertical
2	2998.199	35.52	7.40	54.00	18.48	242	Vertical
3	4844.000	45.48	-10.50	74.00	28.52	285	Vertical
4	4844.000	34.30	-10.50	54.00	19.70	264	Vertical
5	7266.000	38.67	-2.62	54.00	15.33	276	Vertical
6	7266.000	50.40	-2.62	74.00	23.60	287	Vertical

Final Data List

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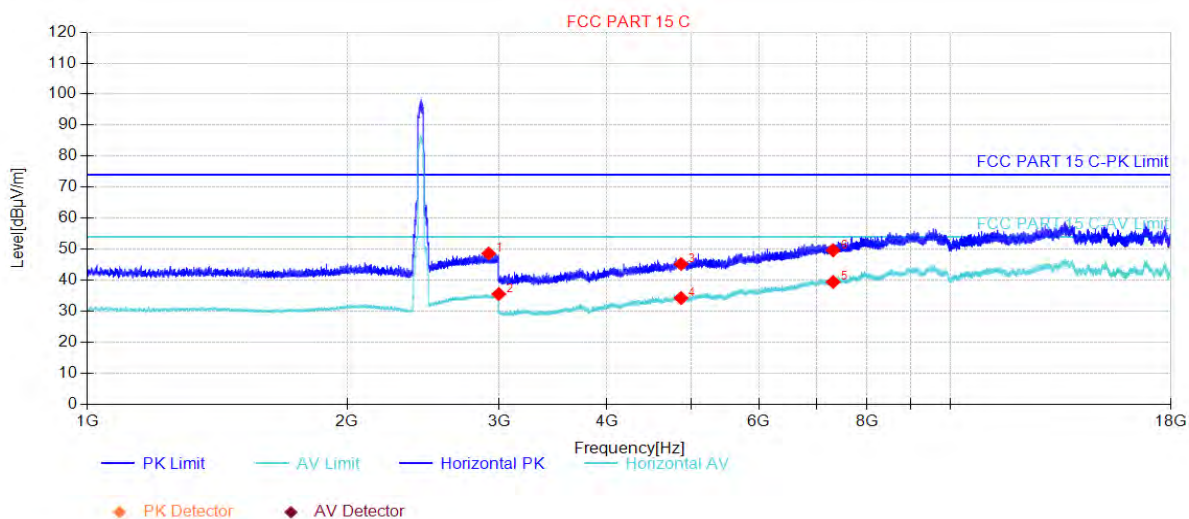
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4.9.2.33 802.11AX40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2917.591	48.60	7.03	74.00	25.40	178	Horizontal
2	2997.199	35.49	7.40	54.00	18.51	168	Horizontal
3	4874.000	45.19	-10.40	74.00	28.81	187	Horizontal
4	4874.000	34.20	-10.40	54.00	19.80	254	Horizontal
5	7311.000	39.42	-2.58	54.00	14.58	189	Horizontal
6	7311.000	49.63	-2.58	74.00	24.37	165	Horizontal

Final Data List

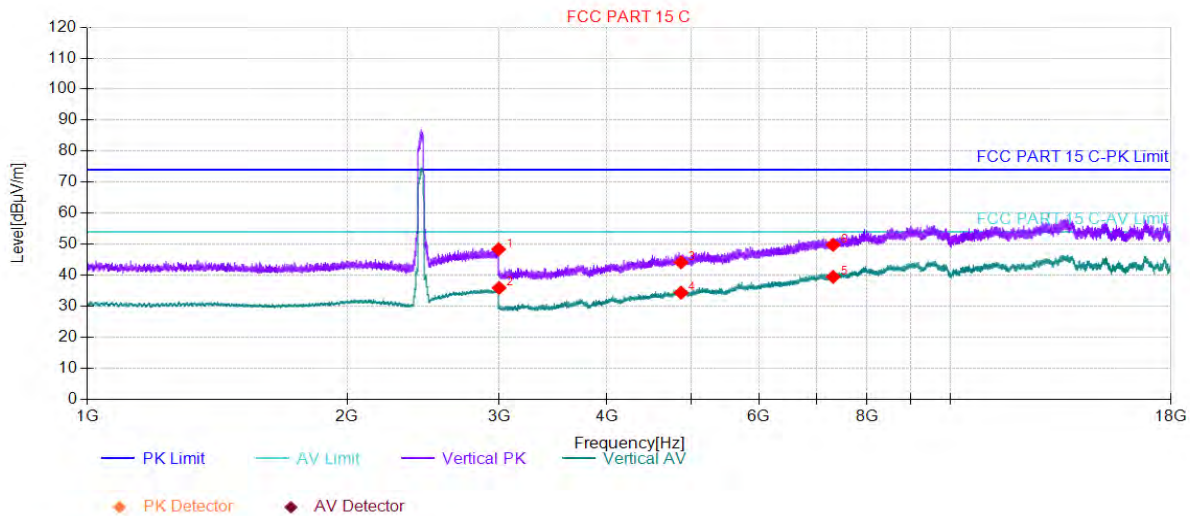


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4.9.2.34 802.11AX40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2995.399	48.34	7.39	74.00	25.66	383	Vertical
2	2999.399	35.89	7.41	54.00	18.11	353	Vertical
3	4874.000	44.09	-10.40	74.00	29.91	275	Vertical
4	4874.000	34.32	-10.40	54.00	19.68	296	Vertical
5	7311.000	39.46	-2.58	54.00	14.54	211	Vertical
6	7311.000	49.78	-2.58	74.00	24.22	298	Vertical

Final Data List



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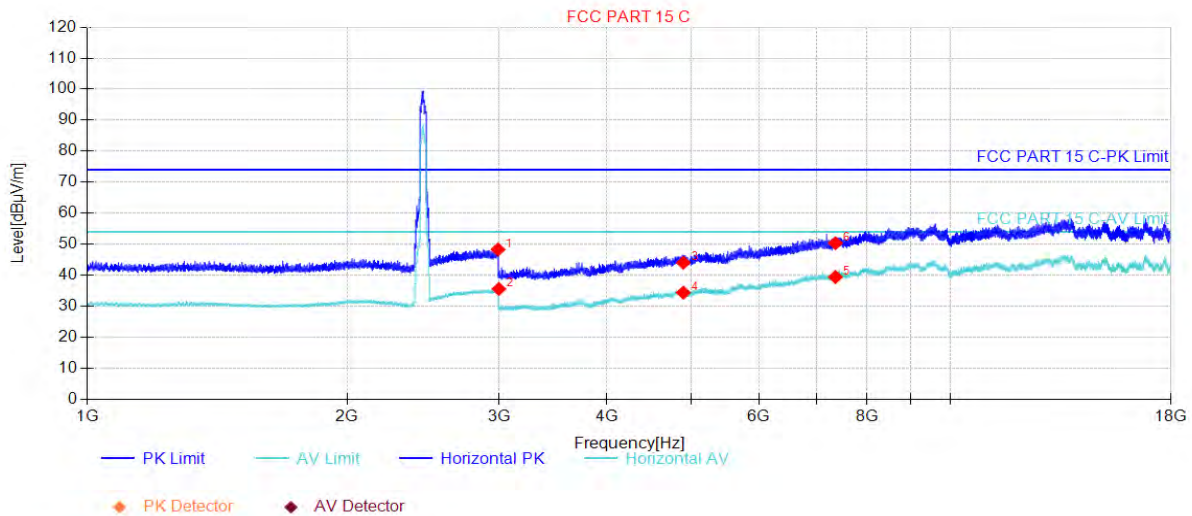
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4.9.2.35 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.199	48.28	7.37	74.00	25.72	186	Horizontal
2	2997.799	35.55	7.40	54.00	18.45	125	Horizontal
3	4904.000	44.00	-10.30	74.00	30.00	198	Horizontal
4	4904.000	34.35	-10.30	54.00	19.65	173	Horizontal
5	7356.000	39.40	-2.27	54.00	14.60	186	Horizontal
6	7356.000	50.32	-2.27	74.00	23.68	142	Horizontal

Final Data List



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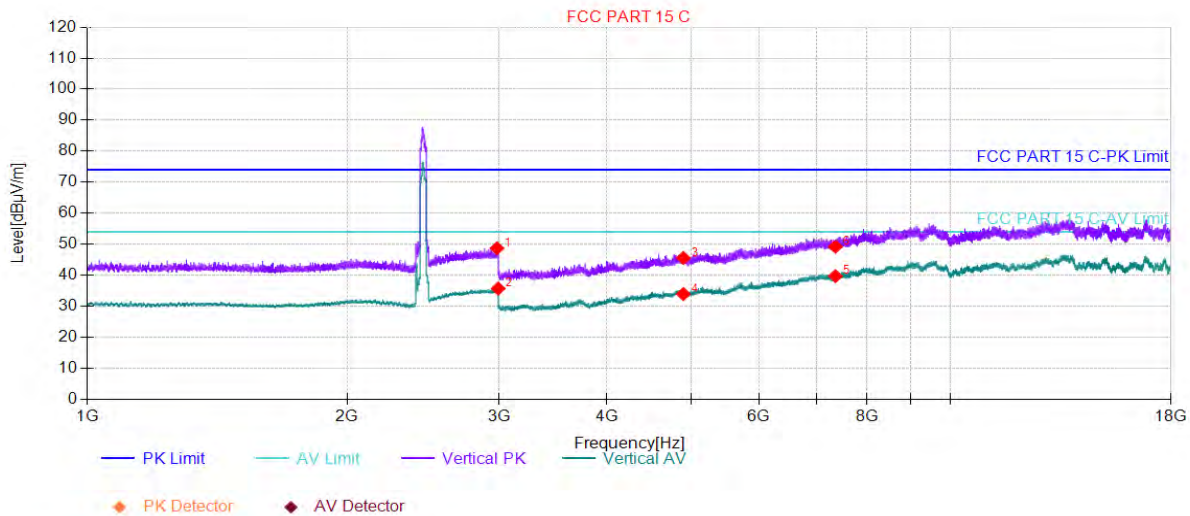
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4.9.2.36 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2982.398	48.68	7.33	74.00	25.32	378	Vertical
2	2992.399	35.67	7.38	54.00	18.33	210	Vertical
3	4904.000	45.54	-10.30	74.00	28.46	215	Vertical
4	4904.000	33.91	-10.30	54.00	20.09	268	Vertical
5	7356.000	39.69	-2.27	54.00	14.31	242	Vertical
6	7356.000	49.18	-2.27	74.00	24.82	200	Vertical

Final Data List

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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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:			

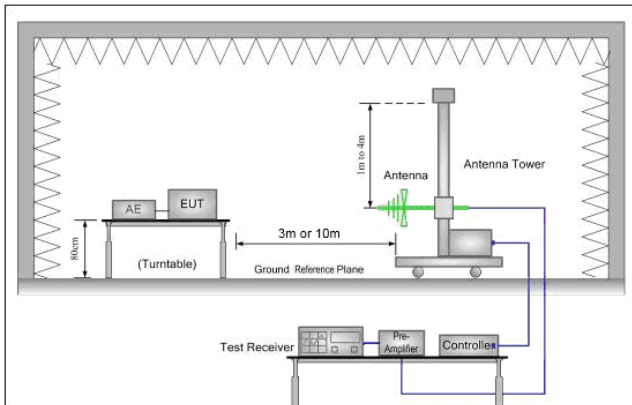


Figure 1. 30MHz to 1GHz

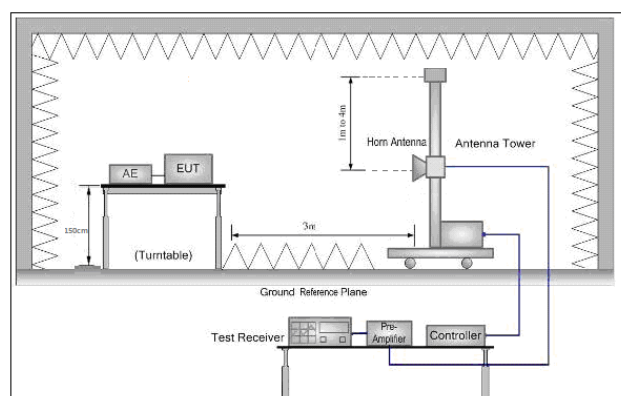


Figure 2. Above 1 GHz

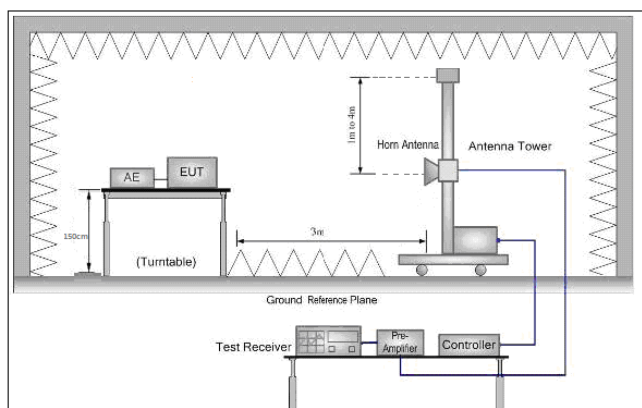


Figure 3. Above 1 GHz



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Test Procedure:	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. 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. 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. 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. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 h. Test the EUT in the lowest channel , the Highest channel 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. j. Repeat above procedures until all frequencies measured was complete.
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)/AX(HE20); 13.5Mbps of rate is the worst case of 802.11N(HT40)/AX(HE40); Only the worst case is recorded in the report. For AX OFDM/OFDMA, through Pre-scan, find OFDM is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



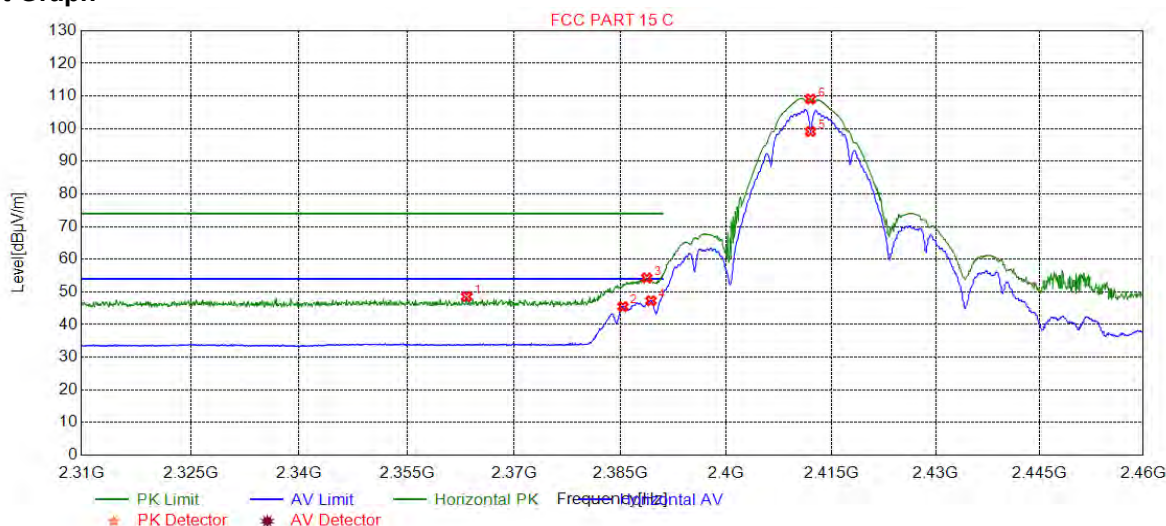
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4.10.1 Test Plots

4.10.1.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2363.351	48.58	74.00	25.42	224	159	Horizontal
2	2385.337	45.50	54.00	8.50	204	3	Horizontal
3	2388.714	54.28	74.00	19.72	191	0	Horizontal
4	2389.314	47.31	54.00	6.69	174	3	Horizontal
5	2412.000	99.14	0.00	-99.14	107	298	Horizontal
6	2412.000	109.07	0.00	-109.07	184	287	Horizontal

Final Data List

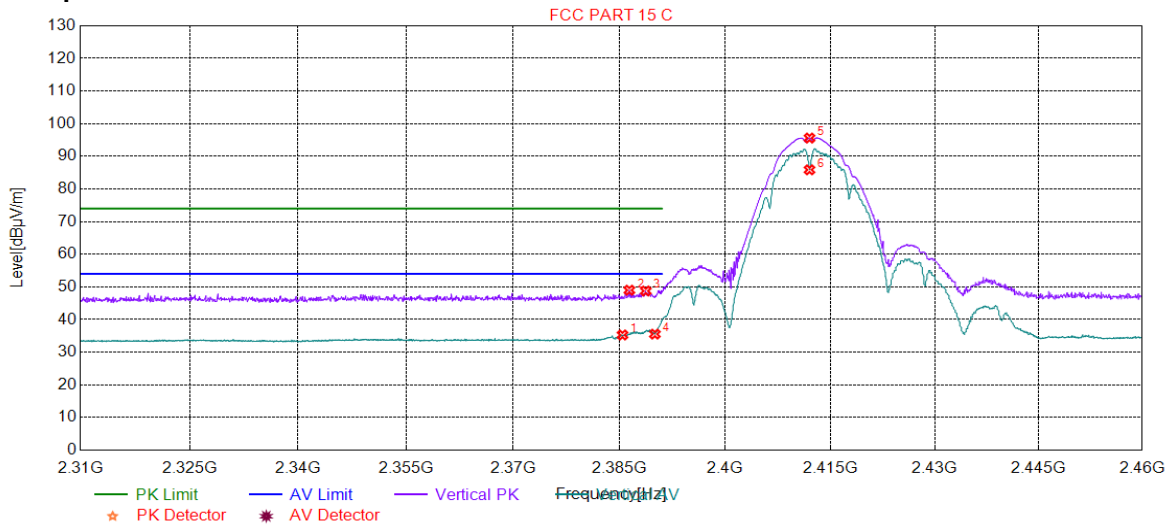


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4.10.1.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.412	35.29	54.00	18.71	154	23	Vertical
2	2386.388	49.01	74.00	24.99	235	360	Vertical
3	2388.714	48.77	74.00	25.23	225	151	Vertical
4	2390.000	35.56	54.00	18.44	240	168	Vertical
5	2412.000	95.61	0.00	-95.61	177	168	Vertical
6	2412.000	85.88	0.00	-85.88	216	168	Vertical

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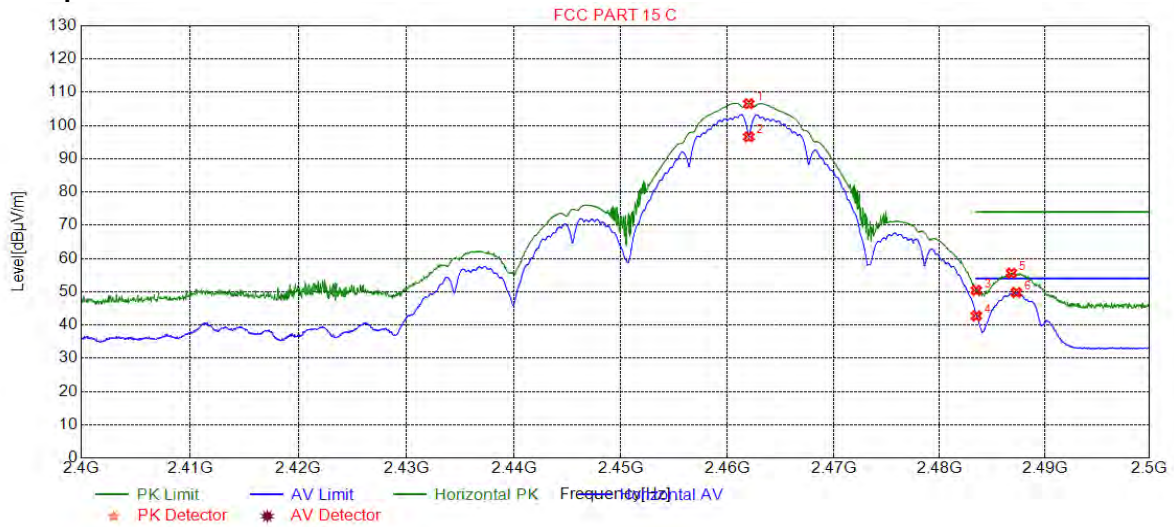
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4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.56	0.00	-106.56	227	346	Horizontal
2	2462.000	96.59	0.00	-96.59	209	298	Horizontal
3	2483.500	50.42	74.00	23.58	221	282	Horizontal
4	2483.500	42.76	54.00	11.24	157	282	Horizontal
5	2486.843	55.63	74.00	18.37	149	204	Horizontal
6	2487.293	49.77	54.00	4.23	150	182	Horizontal

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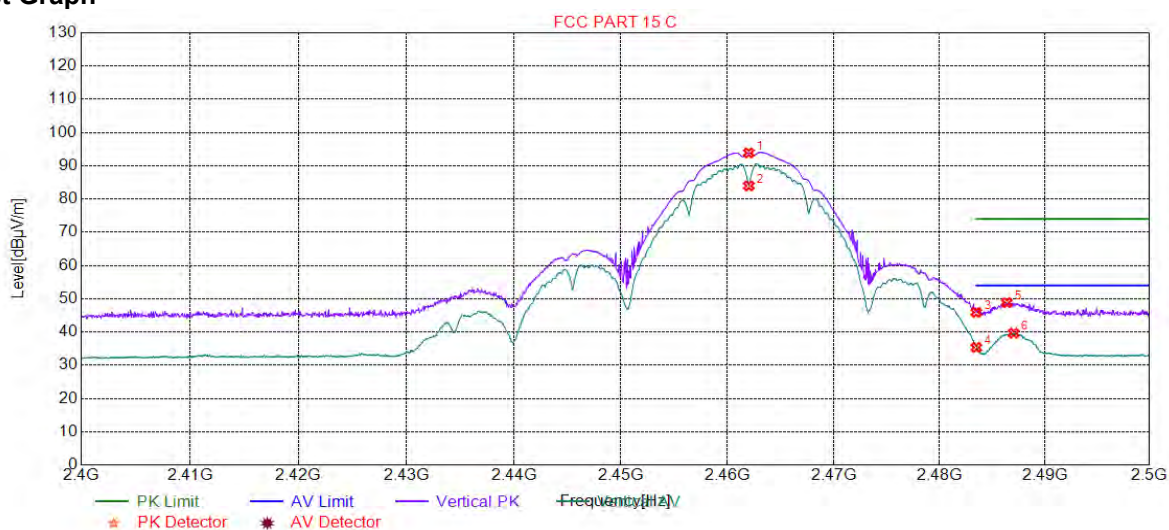
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4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	93.89	0.00	-93.89	295	39	Vertical
2	2462.000	83.98	0.00	-83.98	219	35	Vertical
3	2483.500	45.90	74.00	28.10	182	155	Vertical
4	2483.500	35.37	54.00	18.63	288	161	Vertical
5	2486.393	48.86	74.00	25.14	219	161	Vertical
6	2487.043	39.67	54.00	14.33	183	161	Vertical

Final Data List

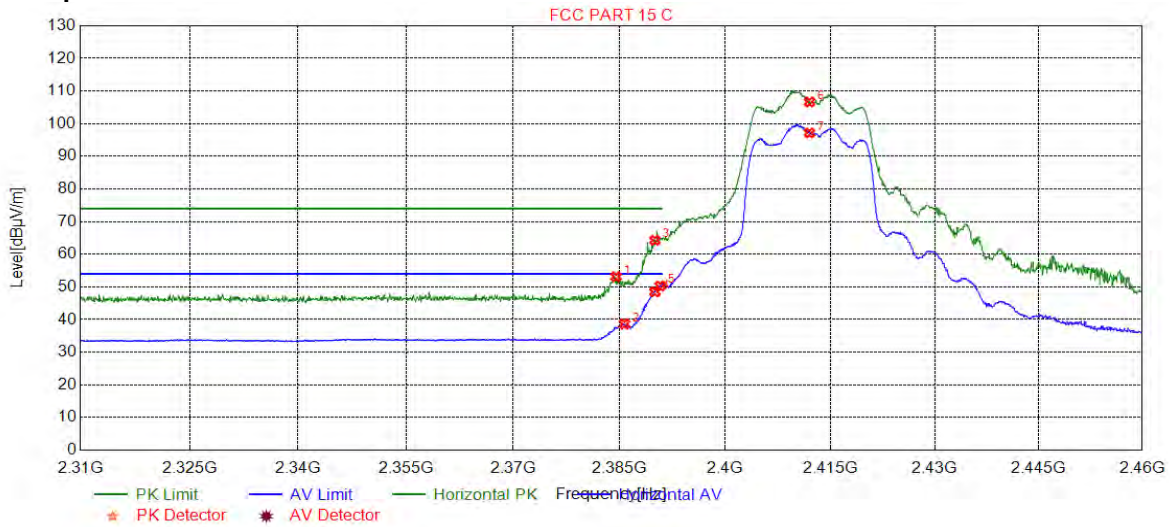
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4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.512	53.12	74.00	20.88	144	192	Horizontal
2	2385.712	38.62	54.00	15.38	186	214	Horizontal
3	2390.000	64.31	74.00	9.69	177	214	Horizontal
4	2390.000	48.47	54.00	5.53	187	214	Horizontal
5	2390.740	50.28	54.00	3.72	243	192	Horizontal
6	2412.000	106.67	0.00	-106.67	155	294	Horizontal
7	2412.000	97.18	0.00	-97.18	180	294	Horizontal

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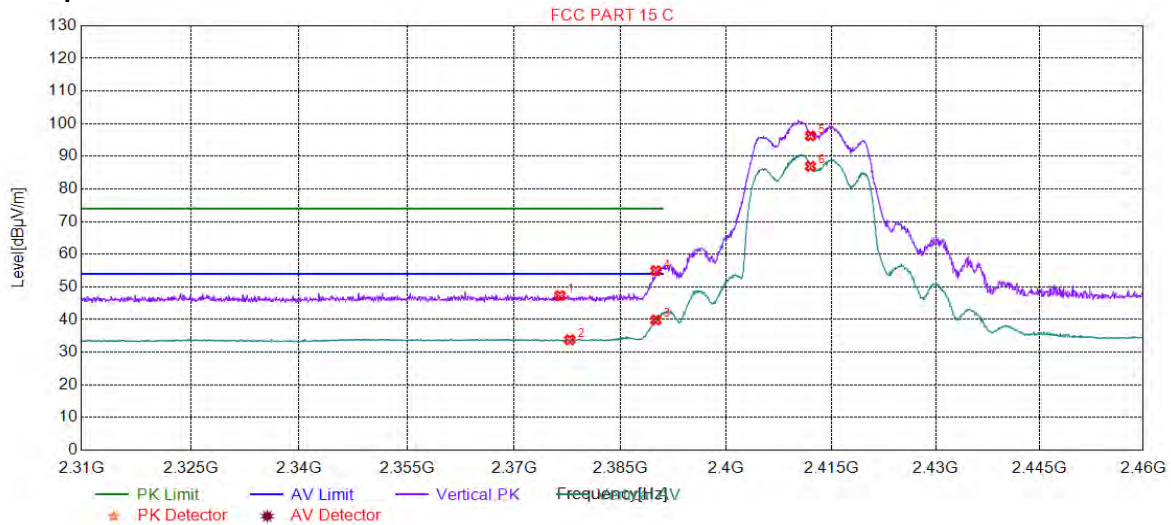


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4.10.1.6 802.11G_Channel 1

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.483	47.36	74.00	26.64	288	286	Vertical
2	2377.833	33.83	54.00	20.17	260	195	Vertical
3	2390.000	39.86	54.00	14.14	185	180	Vertical
4	2390.000	54.98	74.00	19.02	236	184	Vertical
5	2412.000	96.29	0.00	-96.29	280	257	Vertical
6	2412.000	86.96	0.00	-86.96	249	176	Vertical

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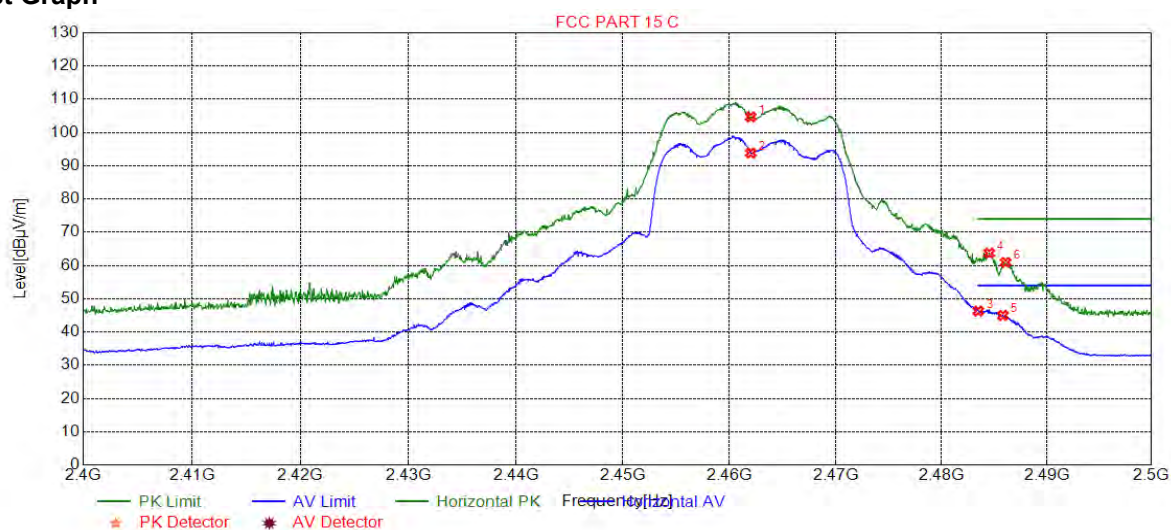
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4.10.1.7 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	104.70	0.00	-104.70	102	250	Horizontal
2	2462.000	93.85	0.00	-93.85	125	286	Horizontal
3	2483.500	46.30	54.00	7.70	129	8	Horizontal
4	2484.542	63.72	74.00	10.28	196	51	Horizontal
5	2485.842	44.99	54.00	9.01	240	58	Horizontal
6	2486.093	60.96	74.00	13.04	179	140	Horizontal

Final Data List

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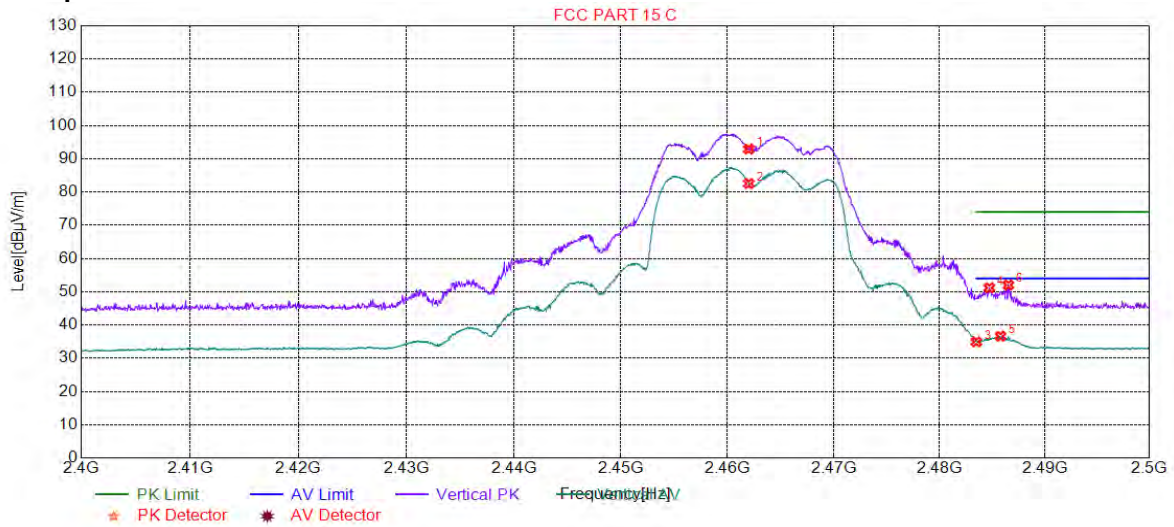
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4.10.1.8 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	92.91	0.00	-92.91	221	120	Vertical
2	2462.000	82.55	0.00	-82.55	186	120	Vertical
3	2483.500	34.96	54.00	19.04	154	174	Vertical
4	2484.742	51.21	74.00	22.79	200	233	Vertical
5	2485.792	36.65	54.00	17.35	298	174	Vertical
6	2486.543	52.06	74.00	21.94	290	174	Vertical

Final Data List

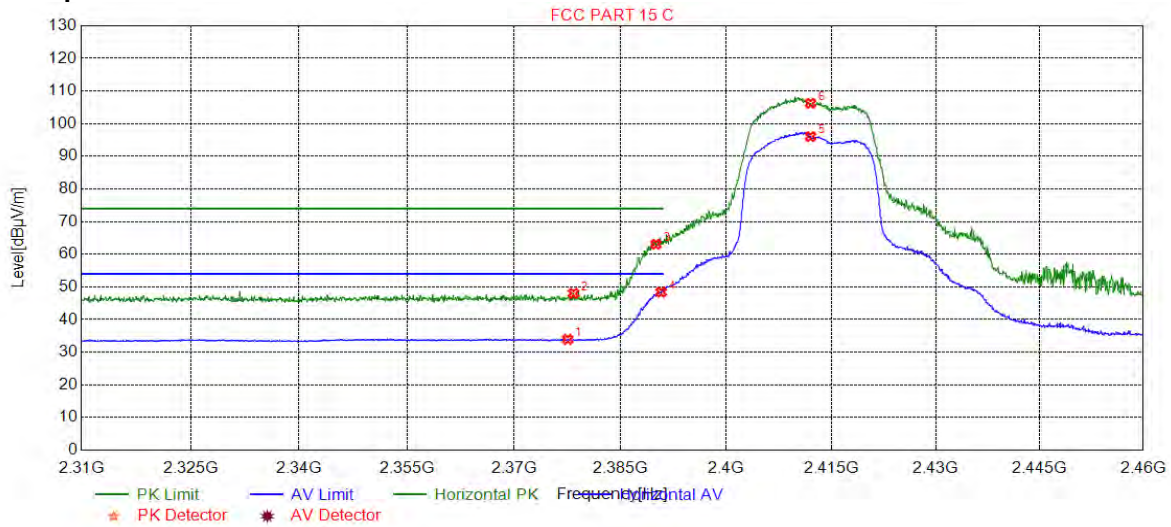


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4.10.1.9 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.533	33.94	54.00	20.06	168	311	Horizontal
2	2378.359	48.06	74.00	25.94	159	293	Horizontal
3	2390.000	63.06	74.00	10.94	171	217	Horizontal
4	2390.740	48.40	54.00	5.60	175	221	Horizontal
5	2412.000	96.05	0.00	-96.05	123	293	Horizontal
6	2412.000	106.27	0.00	-106.27	106	300	Horizontal

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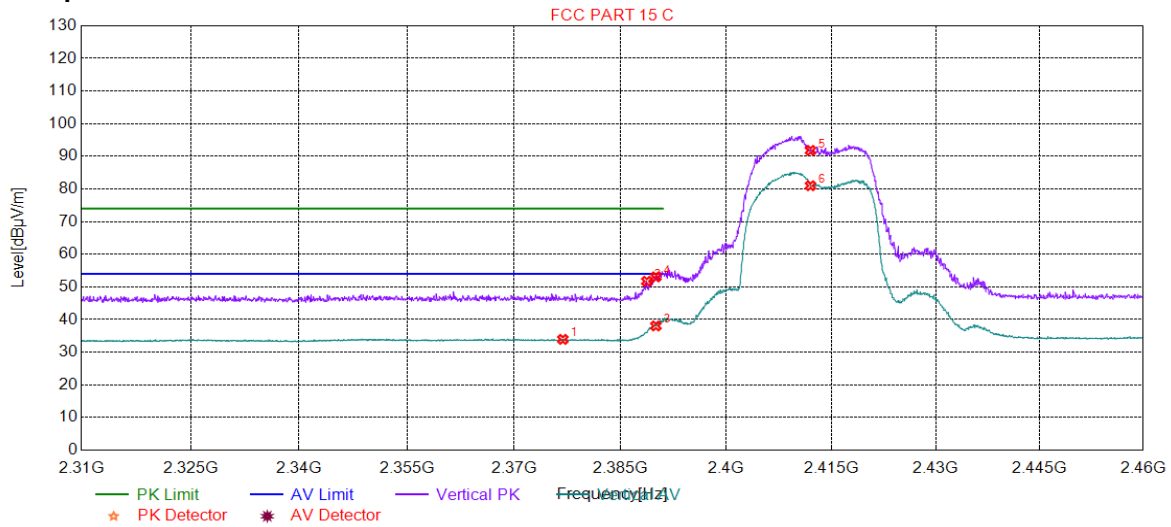


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4.10.1.10 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.858	33.95	54.00	20.05	256	241	Vertical
2	2388.714	51.75	74.00	22.25	150	236	Vertical
3	2390.000	38.07	54.00	15.93	256	182	Vertical
4	2390.000	53.08	74.00	20.92	223	182	Vertical
5	2412.000	91.83	0.00	-91.83	220	266	Vertical
6	2412.000	81.01	0.00	-81.01	266	266	Vertical

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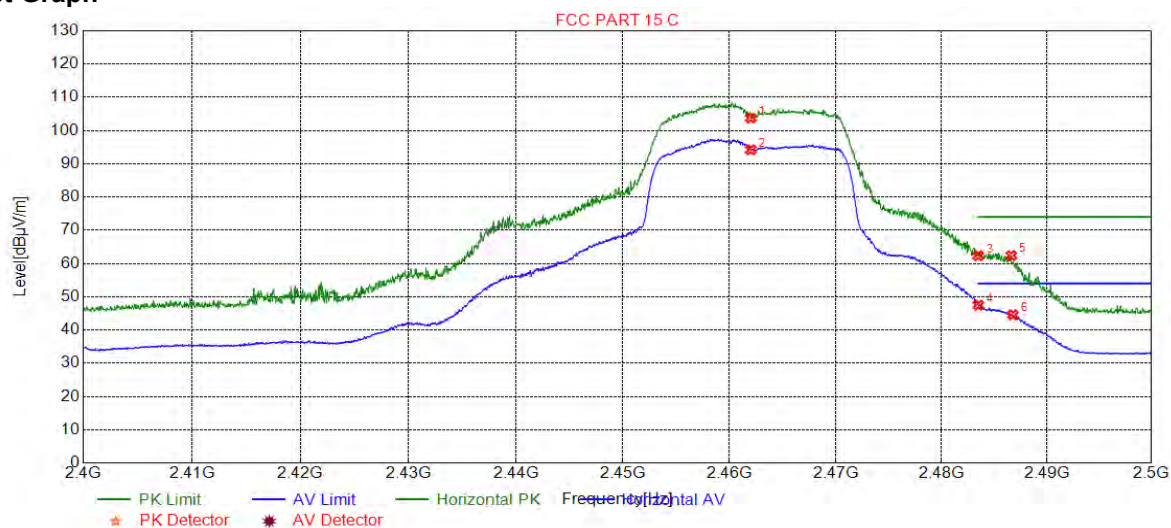
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4.10.1.11 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	103.79	0.00	-103.79	198	293	Horizontal
2	2462.000	94.21	0.00	-94.21	235	293	Horizontal
3	2483.500	62.38	74.00	11.62	192	346	Horizontal
4	2483.500	47.49	54.00	6.51	142	346	Horizontal
5	2486.643	62.41	74.00	11.59	113	52	Horizontal
6	2486.793	44.60	54.00	9.40	190	61	Horizontal

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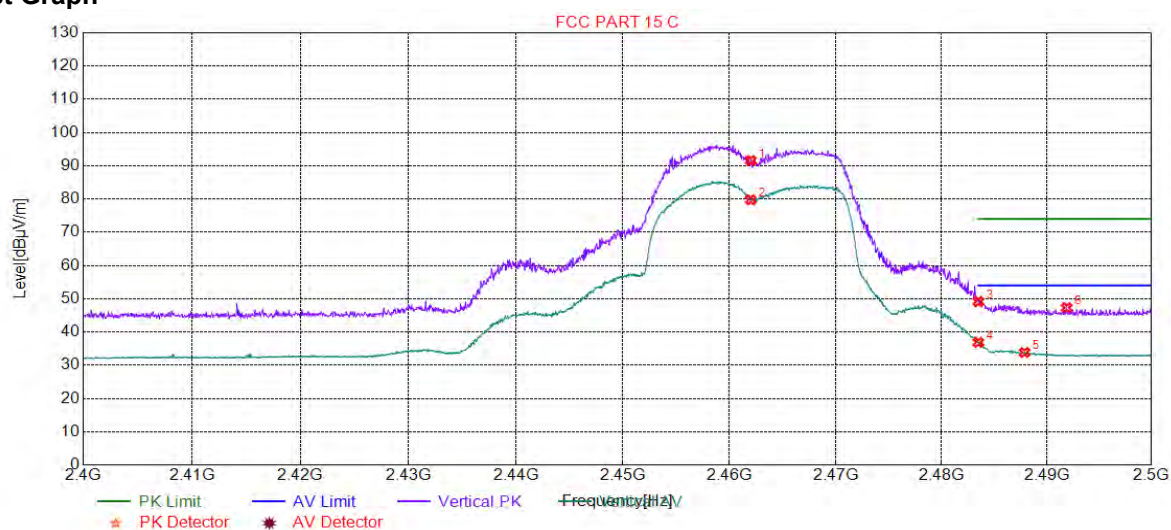
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4.10.1.12 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	91.58	0.00	-91.58	170	252	Vertical
2	2462.000	79.76	0.00	-79.76	266	35	Vertical
3	2483.500	49.18	74.00	24.82	152	323	Vertical
4	2483.500	36.90	54.00	17.10	226	168	Vertical
5	2487.893	33.88	54.00	20.12	208	258	Vertical
6	2491.895	47.34	74.00	26.66	268	357	Vertical

Final Data List

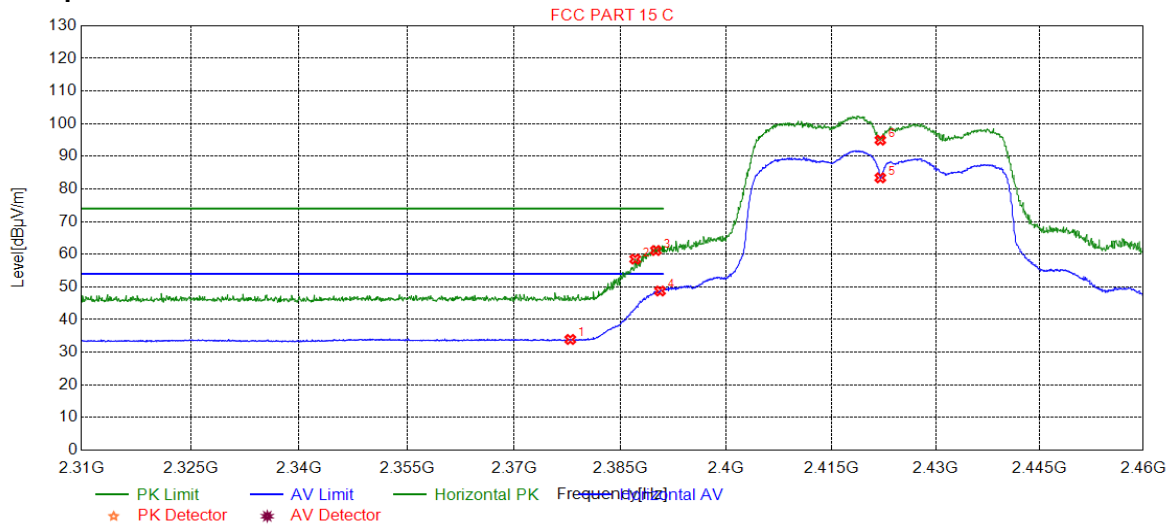
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4.10.1.13 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.909	33.92	54.00	20.08	199	342	Horizontal
2	2387.063	58.53	74.00	15.47	115	209	Horizontal
3	2390.000	61.17	74.00	12.83	211	209	Horizontal
4	2390.590	48.76	54.00	5.24	206	213	Horizontal
5	2422.000	83.43	0.00	-83.43	163	280	Horizontal
6	2422.000	94.97	0.00	-94.97	153	342	Horizontal

Final Data List

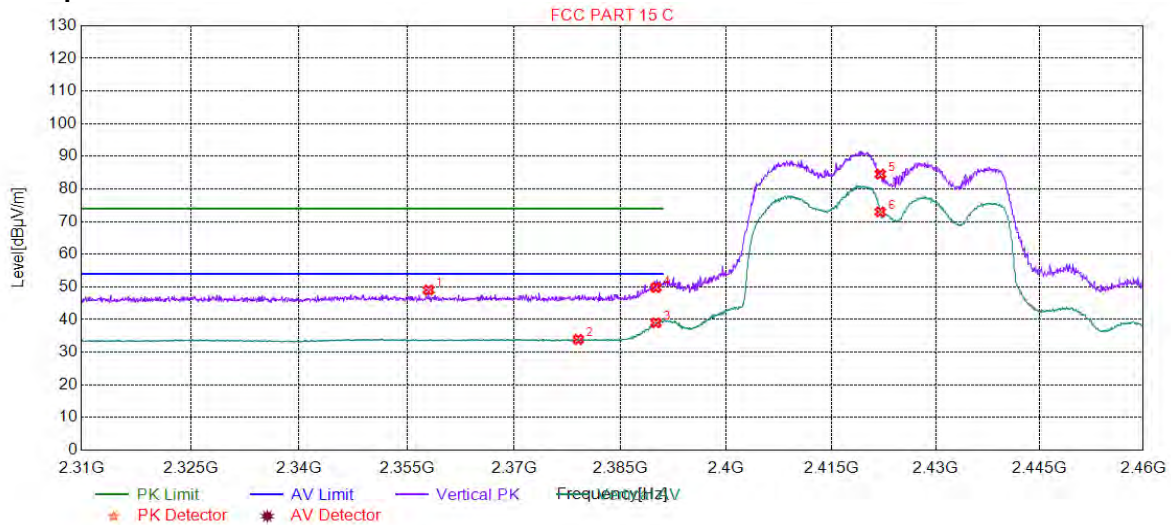


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4.10.1.14 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2358.024	49.06	74.00	24.94	170	26	Vertical
2	2379.034	33.92	54.00	20.08	157	110	Vertical
3	2390.000	39.02	54.00	14.98	234	183	Vertical
4	2390.000	49.83	74.00	24.17	168	183	Vertical
5	2422.000	84.54	0.00	-84.54	164	183	Vertical
6	2422.000	73.00	0.00	-73.00	173	183	Vertical

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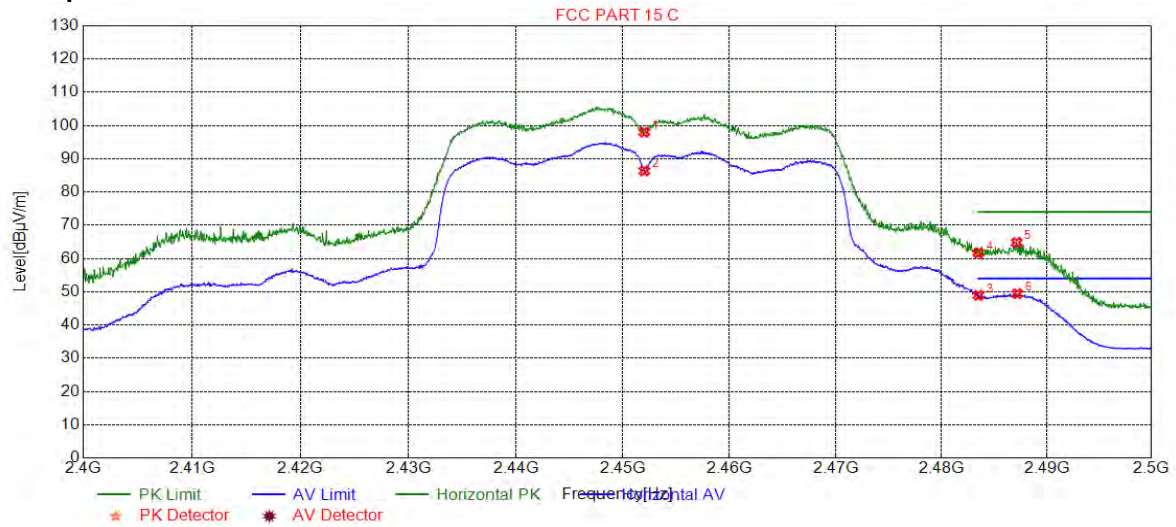


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4.10.1.15 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	98.02	0.00	-98.02	124	2	Horizontal
2	2452.000	86.39	0.00	-86.39	149	292	Horizontal
3	2483.500	48.96	54.00	5.04	200	4	Horizontal
4	2483.500	61.67	74.00	12.33	183	2	Horizontal
5	2487.143	64.82	74.00	9.18	231	27	Horizontal
6	2487.193	49.43	54.00	4.57	149	203	Horizontal

Final Data List

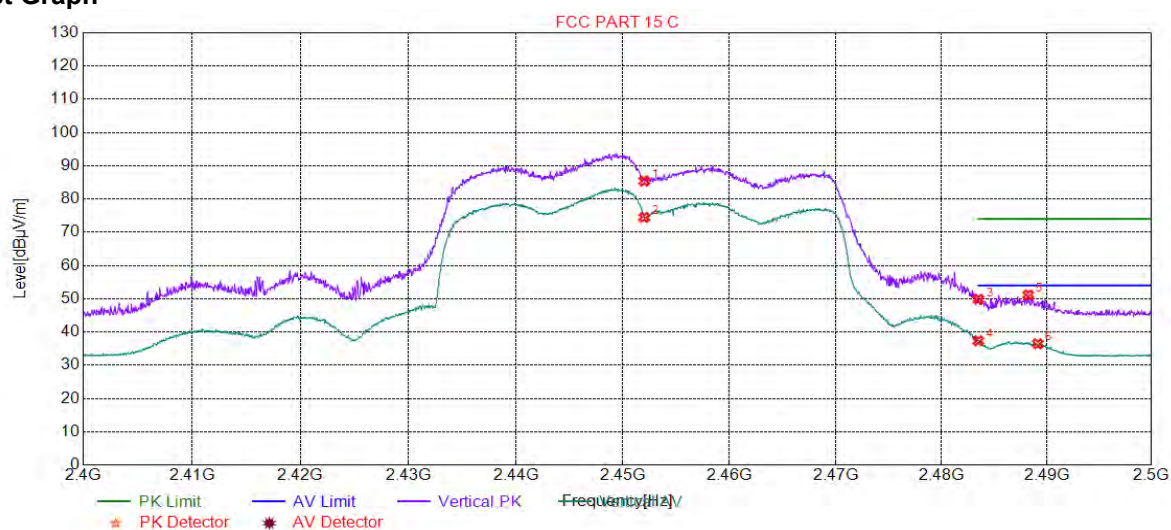


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4.10.1.16 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	85.42	0.00	-85.42	279	168	Vertical
2	2452.000	74.49	0.00	-74.49	242	168	Vertical
3	2483.500	49.85	74.00	24.15	204	168	Vertical
4	2483.500	37.37	54.00	16.63	154	168	Vertical
5	2488.244	51.20	74.00	22.80	189	228	Vertical
6	2489.144	36.48	54.00	17.52	185	168	Vertical

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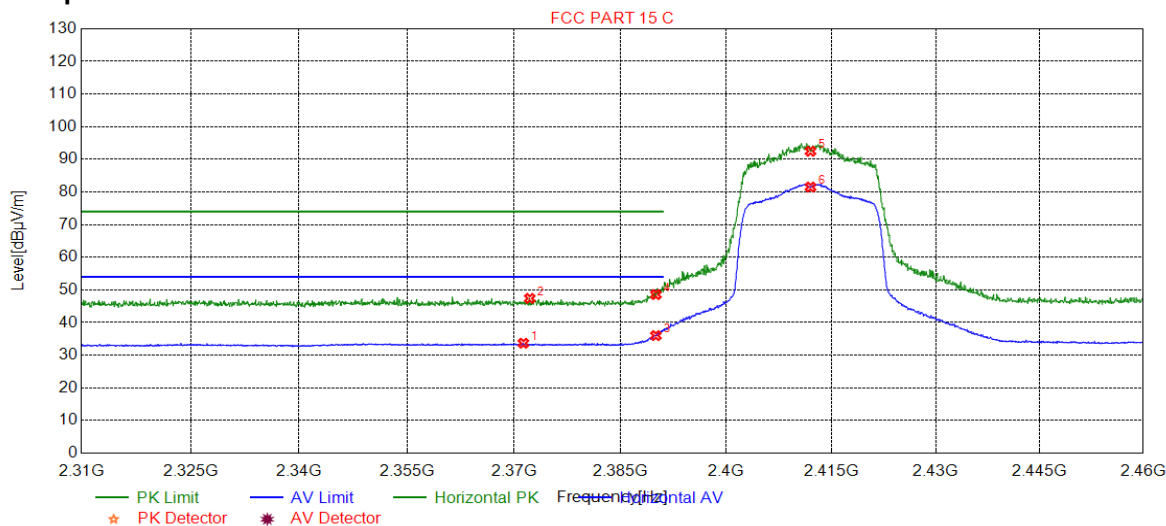
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4.10.1.17 802.11AX20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.305	33.69	54.00	20.31	201	225	Horizontal
2	2372.206	47.42	74.00	26.58	129	102	Horizontal
3	2390.000	36.02	54.00	17.98	190	256	Horizontal
4	2390.000	48.59	74.00	25.41	225	248	Horizontal
5	2412.000	92.48	0.00	-92.48	210	244	Horizontal
6	2412.000	81.52	0.00	-81.52	181	221	Horizontal

Final Data List

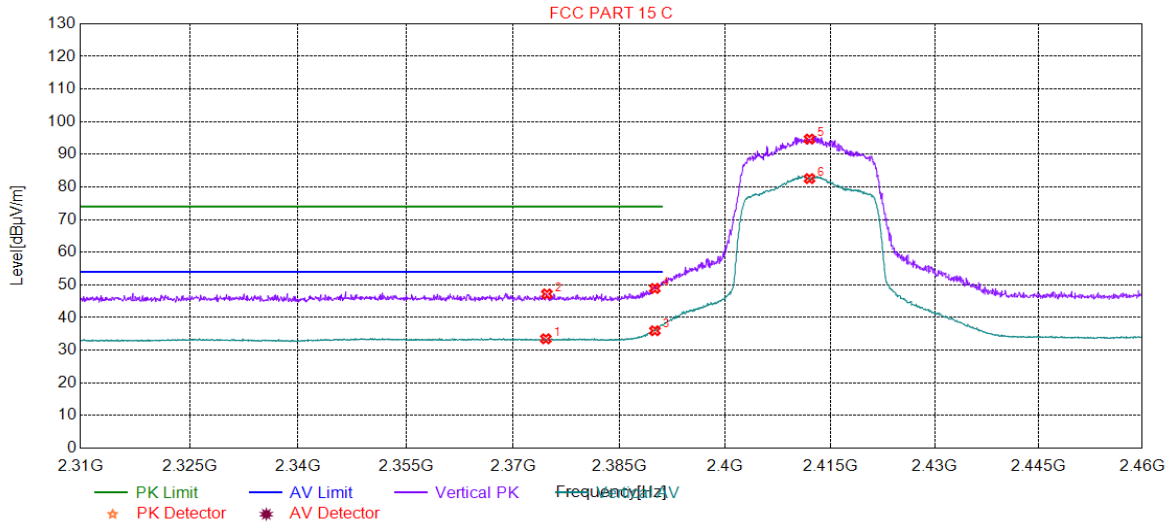
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4.10.1.18 802.11AX20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.607	33.51	54.00	20.49	251	126	Vertical
2	2374.757	47.25	74.00	26.75	207	98	Vertical
3	2390.000	35.97	54.00	18.03	166	223	Vertical
4	2390.000	48.93	74.00	25.07	231	257	Vertical
5	2412.000	94.69	0.00	-94.69	269	223	Vertical
6	2412.000	82.59	0.00	-82.59	195	220	Vertical

Final Data List

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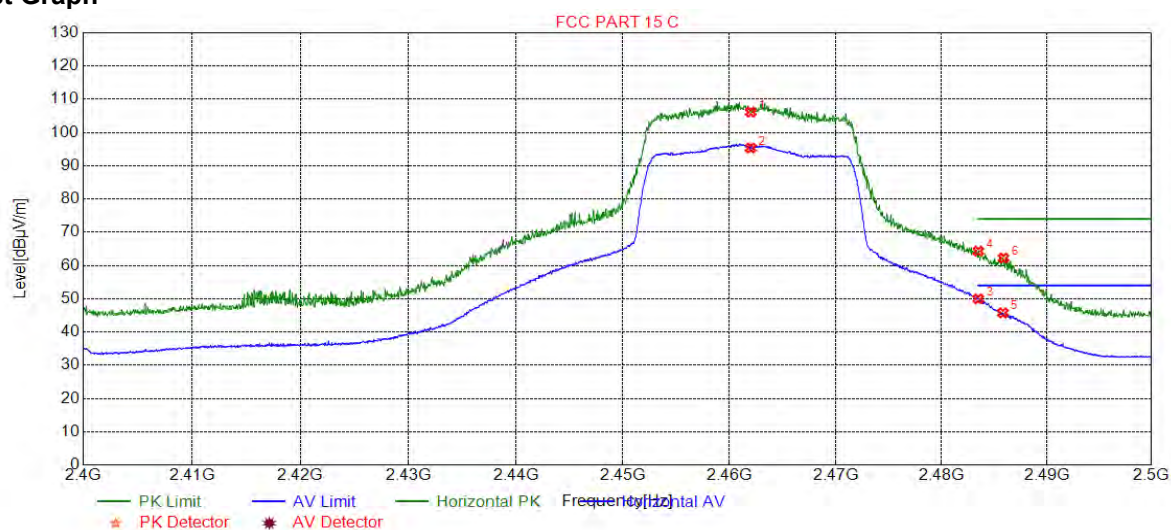


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4.10.1.19 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	106.16	0.00	-106.16	182	201	Horizontal
2	2462.000	95.35	0.00	-95.35	140	201	Horizontal
3	2483.500	49.97	54.00	4.03	123	198	Horizontal
4	2483.500	64.33	74.00	9.67	120	194	Horizontal
5	2485.842	45.77	54.00	8.23	106	198	Horizontal
6	2485.892	62.26	74.00	11.74	221	57	Horizontal

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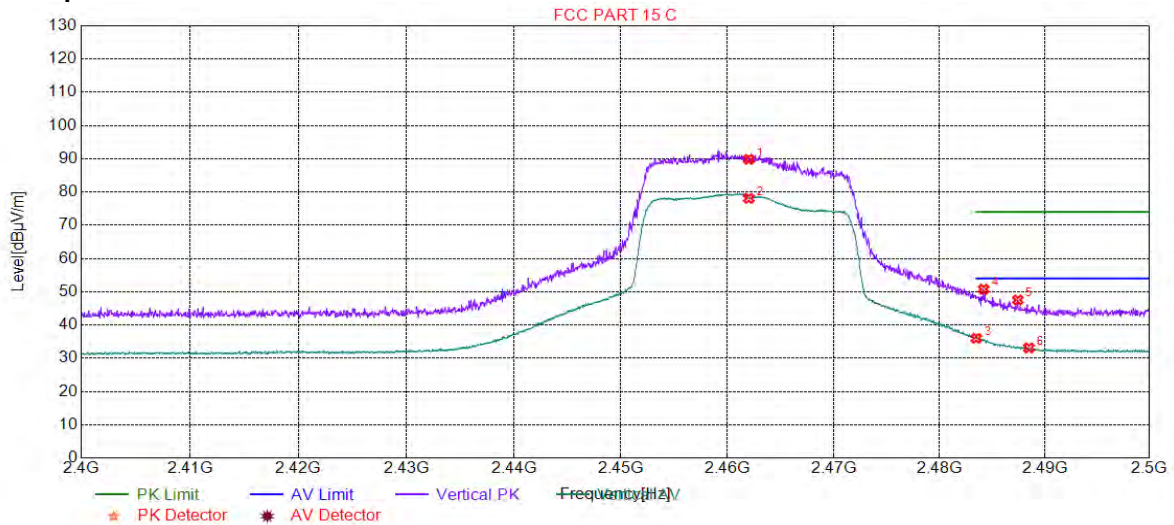
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4.10.1.20 802.11AX20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.000	89.84	0.00	-89.84	268	0	Vertical
2	2462.000	78.10	0.00	-78.10	291	0	Vertical
3	2483.500	36.01	54.00	17.99	240	0	Vertical
4	2484.192	50.78	74.00	23.22	276	0	Vertical
5	2487.443	47.54	74.00	26.46	196	0	Vertical
6	2488.494	33.15	54.00	20.85	195	0	Vertical

Final Data List



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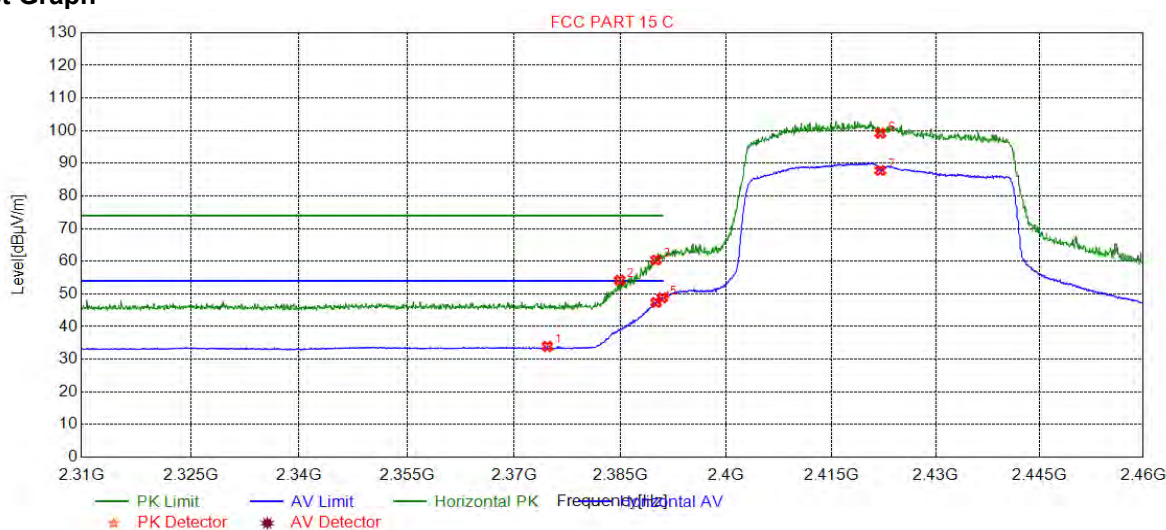
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4.10.1.21 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.682	33.88	54.00	20.12	123	44	Horizontal
2	2384.887	54.15	74.00	19.85	154	215	Horizontal
3	2390.000	60.41	74.00	13.59	145	211	Horizontal
4	2390.000	47.40	54.00	6.60	177	260	Horizontal
5	2390.890	48.80	54.00	5.20	202	260	Horizontal
6	2422.000	99.23	0.00	-99.23	222	215	Horizontal
7	2422.000	87.82	0.00	-87.82	192	207	Horizontal

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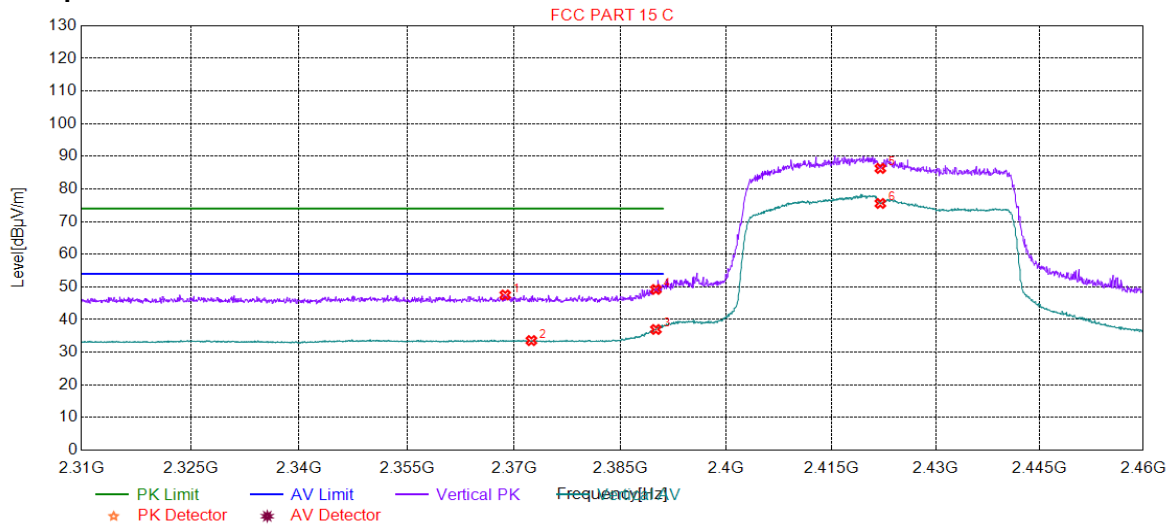


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4.10.1.22 802.11AX40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2368.754	47.55	74.00	26.45	152	316	Vertical
2	2372.431	33.58	54.00	20.42	279	0	Vertical
3	2390.000	36.98	54.00	17.02	171	170	Vertical
4	2390.000	49.24	74.00	24.76	254	173	Vertical
5	2422.000	86.31	0.00	-86.31	277	151	Vertical
6	2442.000	75.58	0.00	-75.58	179	155	Vertical

Final Data List

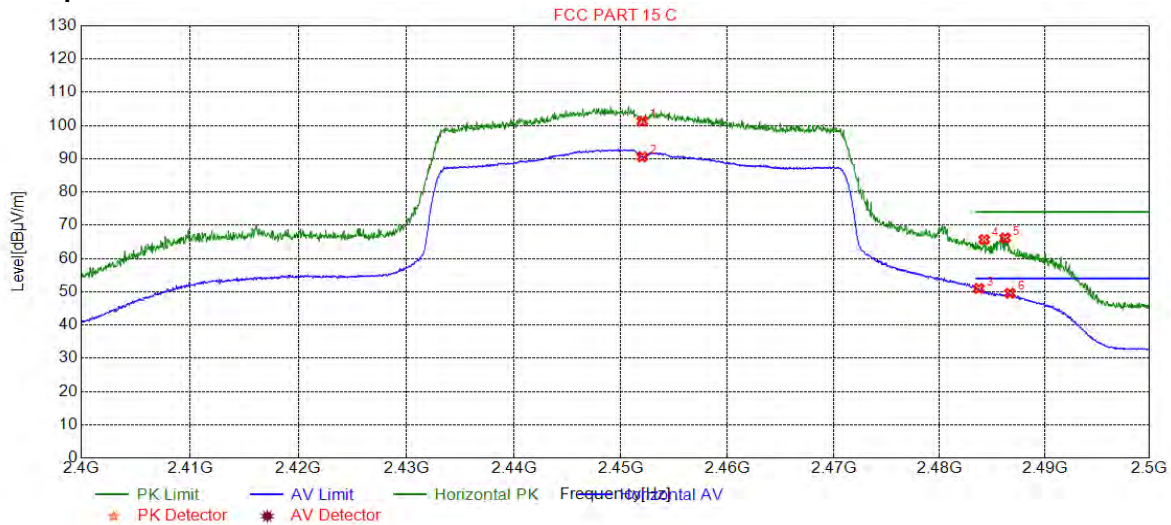


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4.10.1.23 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	101.26	0.00	-101.26	159	304	Horizontal
2	2452.000	90.60	0.00	-90.60	131	214	Horizontal
3	2483.741	50.99	54.00	3.01	113	210	Horizontal
4	2484.242	65.69	74.00	8.31	220	70	Horizontal
5	2486.243	66.17	74.00	7.83	133	210	Horizontal
6	2486.693	49.57	54.00	4.43	153	210	Horizontal

Final Data List



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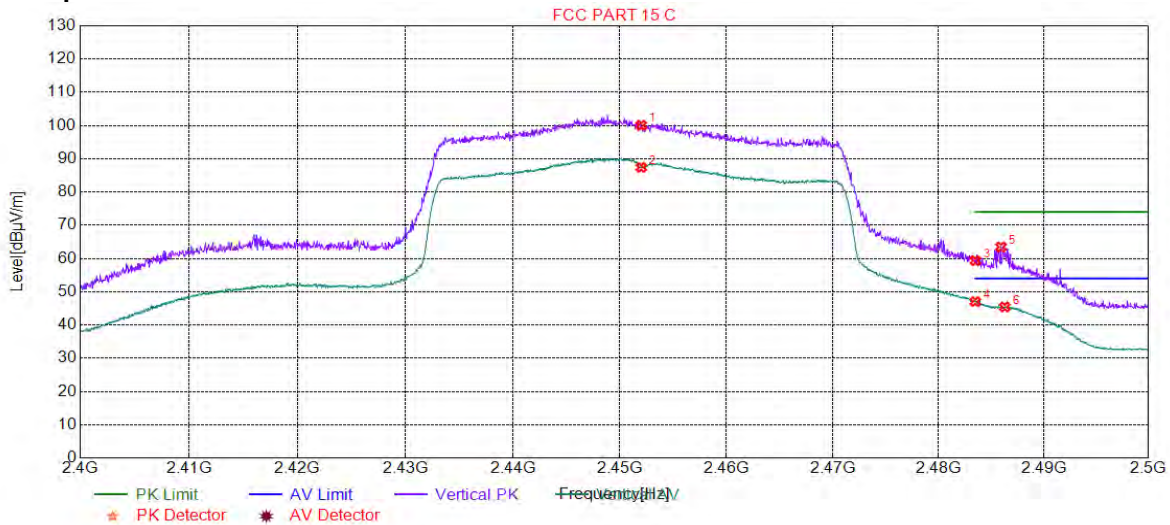
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4.10.1.24 802.11AX40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.000	100.07	0.00	-100.07	243	163	Vertical
2	2452.000	87.41	0.00	-87.41	282	159	Vertical
3	2483.500	59.35	74.00	14.65	284	157	Vertical
4	2483.500	47.06	54.00	6.94	264	163	Vertical
5	2485.943	63.52	74.00	10.48	184	163	Vertical
6	2486.293	45.45	54.00	8.55	215	161	Vertical

Final Data List

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Temperature test	$\pm 1^{\circ}\text{C}$
5	Humidity test	$\pm 3\%$
6	DC and low frequency voltages	$\pm 0.5\%$

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
DC Power Supply	Agilent Technologie Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/1/3	2022/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

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	XAW01-08-05	2020-04-12	2021-04-11
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	2020-04-02	2021-04-01
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 PCE Setup Photos.

The End



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DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	7.620	2407.950	2415.570	0.5	PASS
	Ant2	2412	8.550	2407.440	2415.990	0.5	PASS
	Ant1	2437	8.640	2432.920	2441.560	0.5	PASS
	Ant2	2437	8.160	2433.400	2441.560	0.5	PASS
	Ant1	2462	9.120	2457.440	2466.560	0.5	PASS
	Ant2	2462	9.120	2457.440	2466.560	0.5	PASS
11G-CDD	Ant1	2412	15.150	2404.410	2419.560	0.5	PASS
	Ant2	2412	15.120	2404.410	2419.530	0.5	PASS
	Ant1	2437	15.120	2429.440	2444.560	0.5	PASS
	Ant2	2437	15.120	2429.440	2444.560	0.5	PASS
	Ant1	2462	15.510	2454.380	2469.890	0.5	PASS
	Ant2	2462	15.690	2454.200	2469.890	0.5	PASS
11N20MIMO	Ant1	2412	15.120	2404.380	2419.500	0.5	PASS
	Ant2	2412	15.090	2404.440	2419.530	0.5	PASS
	Ant1	2437	13.890	2430.670	2444.560	0.5	PASS
	Ant2	2437	14.520	2430.640	2445.160	0.5	PASS
	Ant1	2462	16.350	2453.810	2470.160	0.5	PASS
	Ant2	2462	16.590	2454.200	2470.790	0.5	PASS
11N40MIMO	Ant1	2422	32.700	2405.620	2438.320	0.5	PASS
	Ant2	2422	35.460	2404.360	2439.820	0.5	PASS
	Ant1	2437	35.160	2419.420	2454.580	0.5	PASS
	Ant2	2437	31.500	2420.620	2452.120	0.5	PASS
	Ant1	2452	31.380	2435.680	2467.060	0.5	PASS
	Ant2	2452	34.260	2434.120	2468.380	0.5	PASS
11AC40MIMO	Ant1	2422	35.280	2404.240	2439.520	0.5	PASS
	Ant2	2422	35.220	2404.420	2439.640	0.5	PASS
	Ant1	2437	32.580	2420.680	2453.260	0.5	PASS
	Ant2	2437	35.160	2419.420	2454.580	0.5	PASS
	Ant1	2452	32.700	2435.620	2468.320	0.5	PASS
	Ant2	2452	35.160	2434.420	2469.580	0.5	PASS



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TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	2412	16.620	2404.470	2421.090	0.5	PASS
	Ant2	2412	15.090	2404.440	2419.530	0.5	PASS
	Ant1	2437	15.330	2429.470	2444.800	0.5	PASS
	Ant2	2437	16.470	2429.440	2445.910	0.5	PASS
	Ant1	2462	16.320	2453.270	2469.590	0.5	PASS
	Ant2	2462	17.640	2453.270	2470.910	0.5	PASS
11AX40MIMO	Ant1	2422	35.340	2404.300	2439.640	0.5	PASS
	Ant2	2422	33.960	2404.420	2438.380	0.5	PASS
	Ant1	2437	34.920	2419.720	2454.640	0.5	PASS
	Ant2	2437	33.960	2419.420	2453.380	0.5	PASS
	Ant1	2452	36.120	2433.400	2469.520	0.5	PASS
	Ant2	2452	35.100	2434.420	2469.520	0.5	PASS



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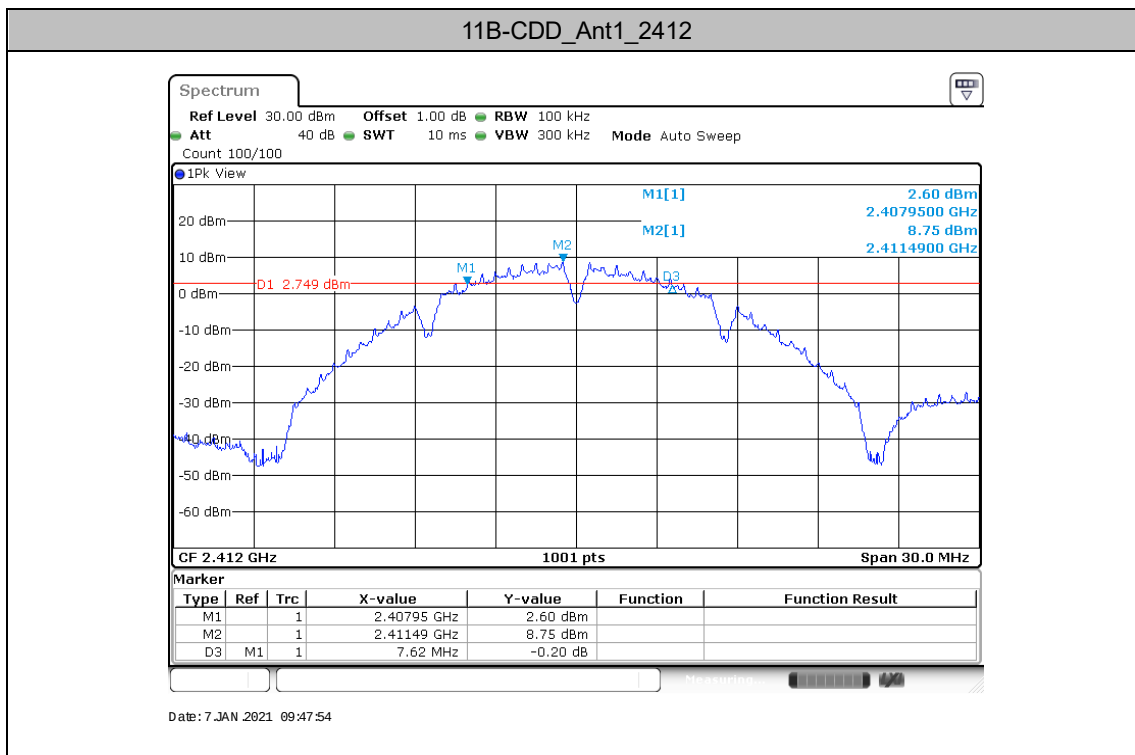
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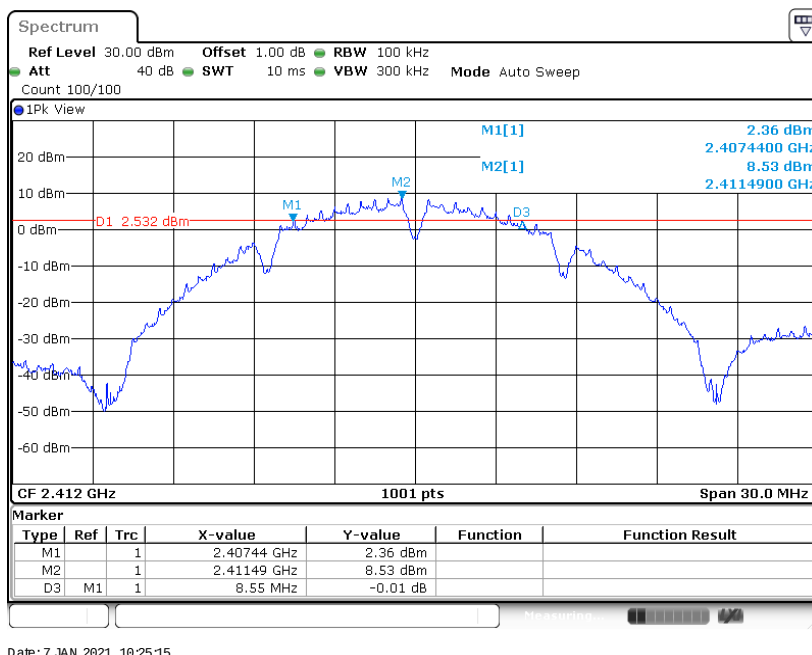


Test Graphs

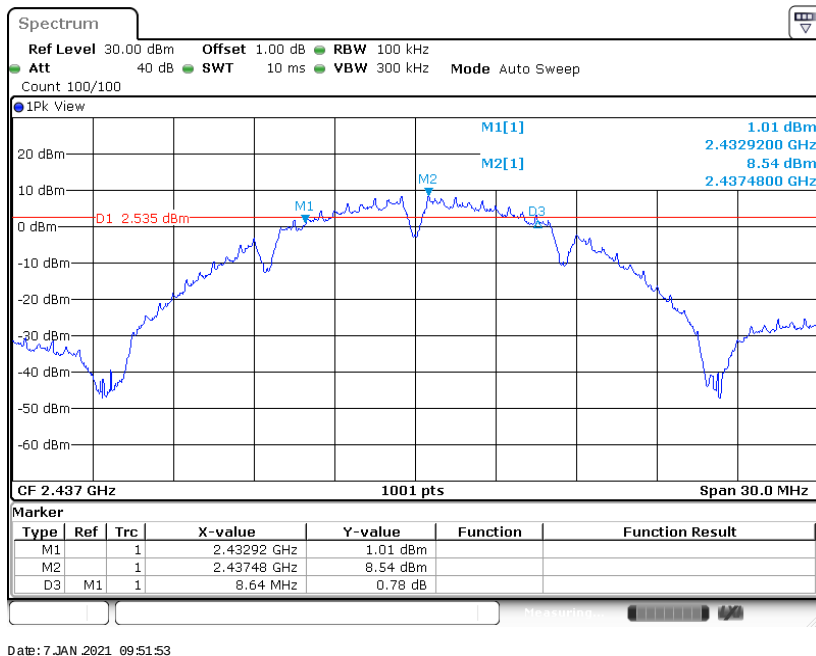




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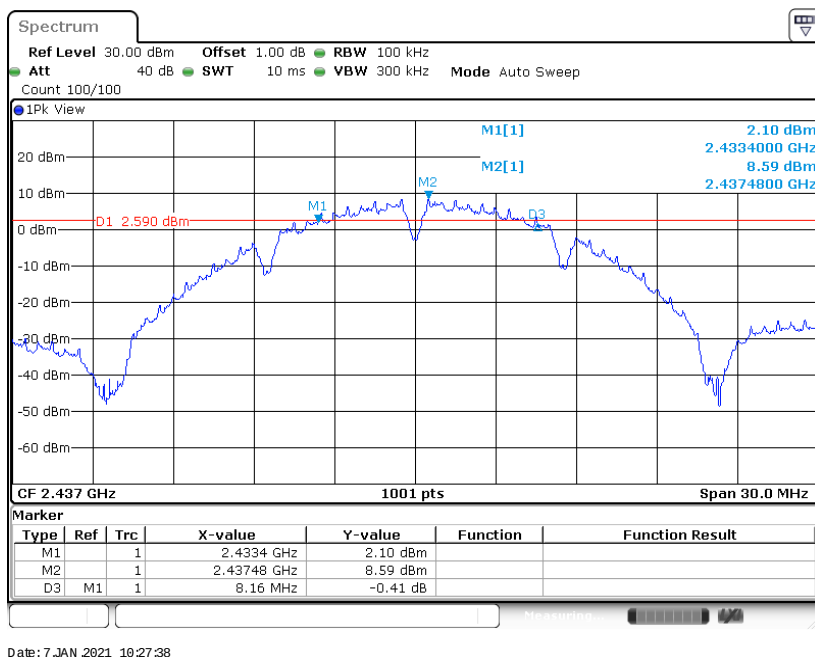


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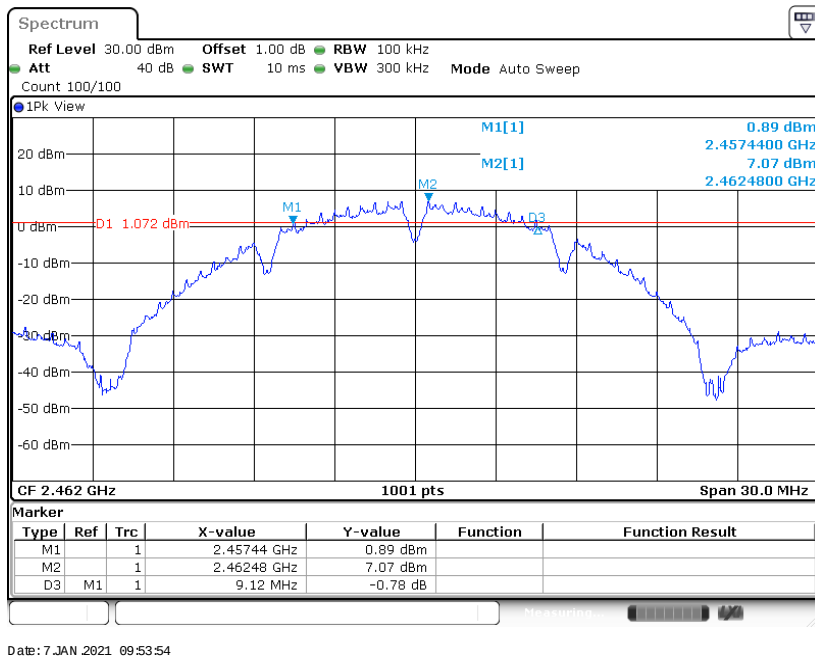




11B-CDD_Ant2_2437



11B-CDD_Ant1_2462

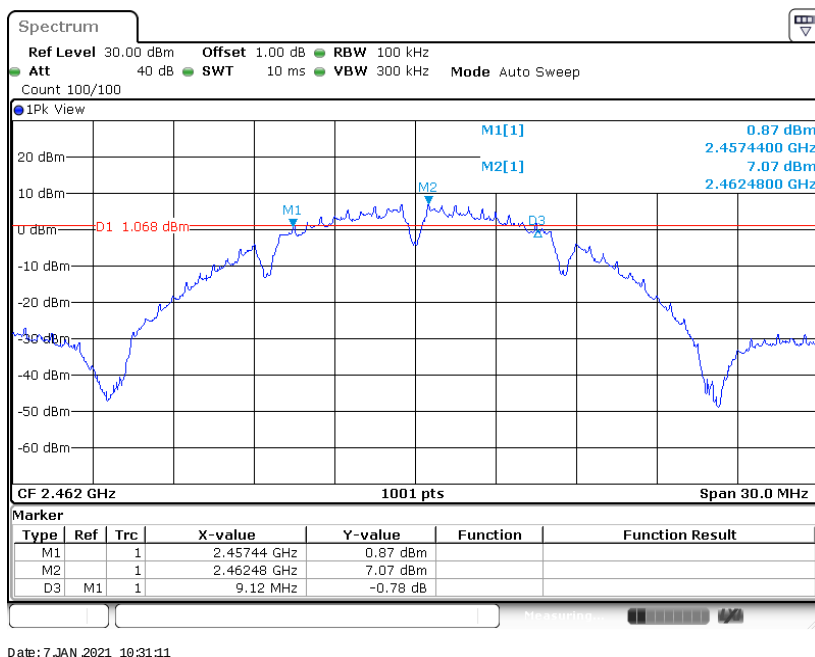


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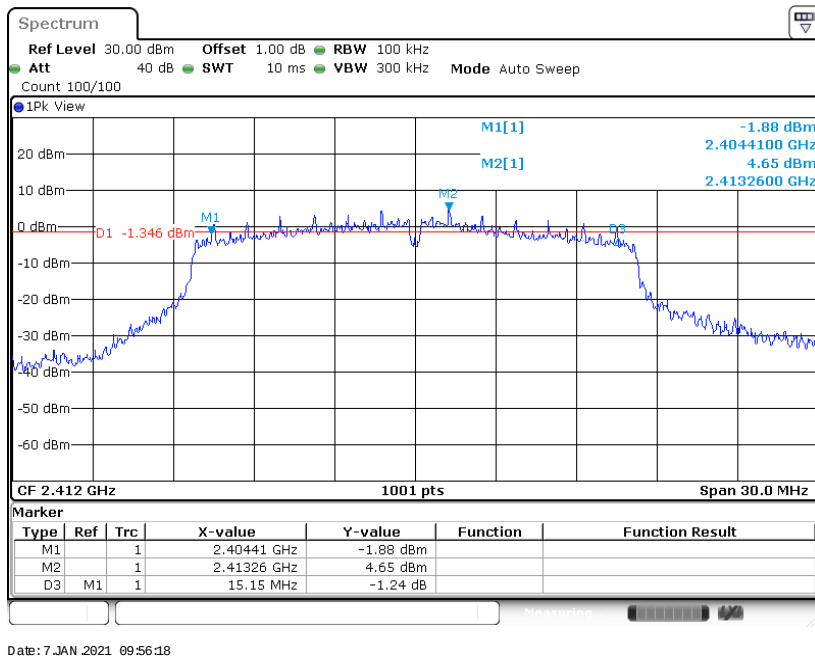
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11B-CDD_Ant2_2462

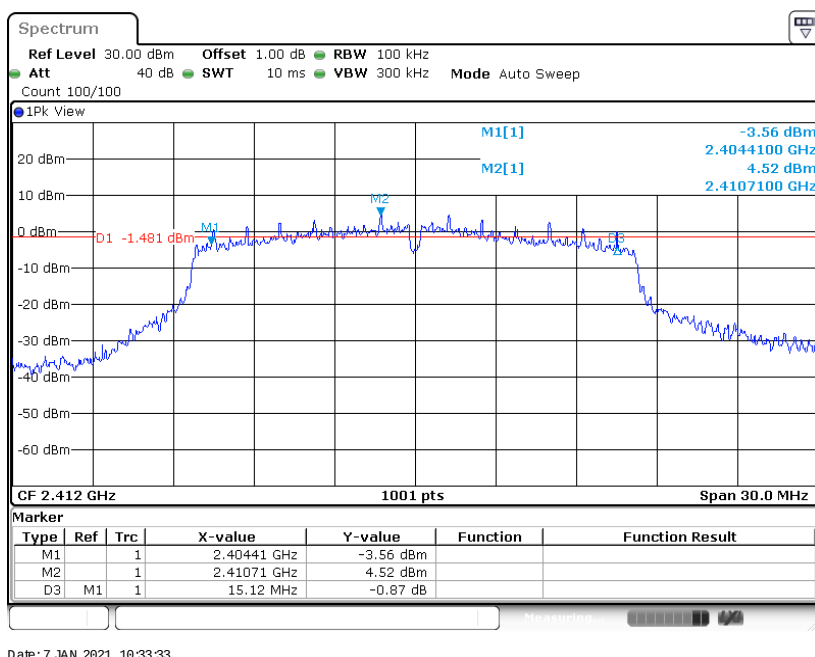


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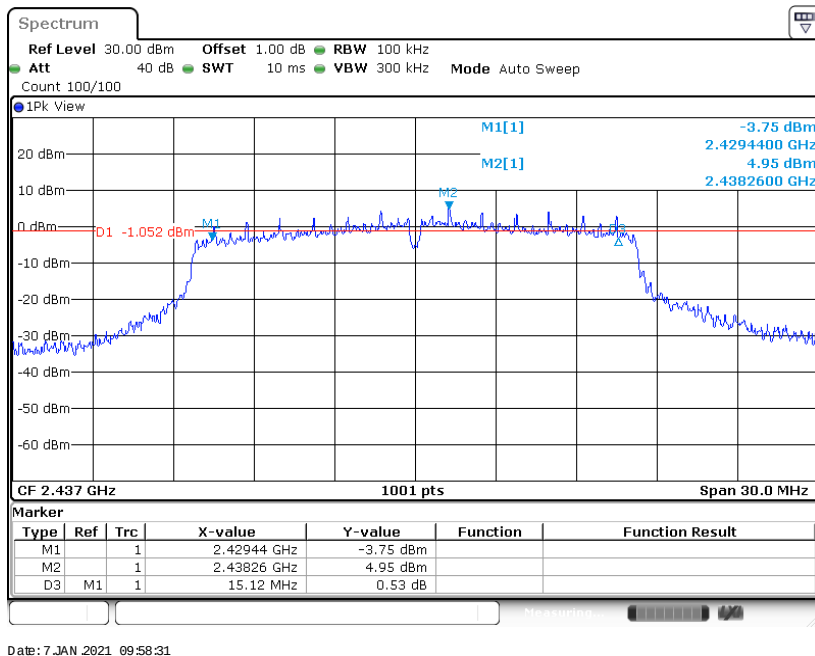




11G-CDD_Ant2_2412



11G-CDD_Ant1_2437

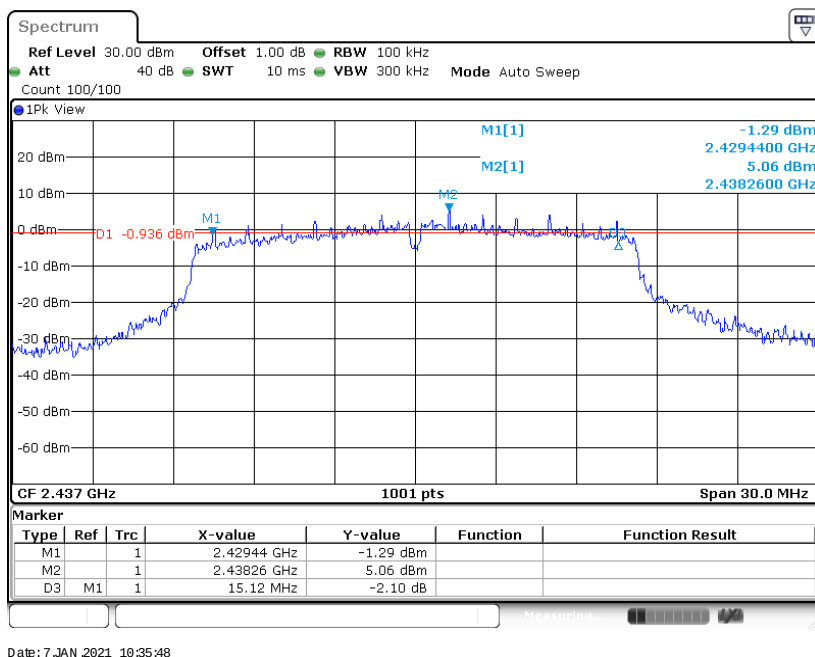


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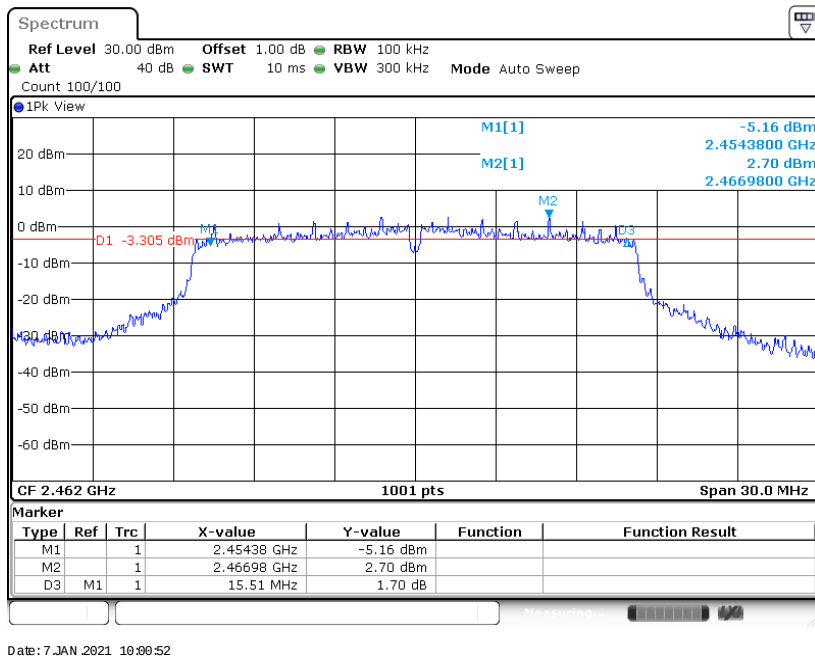
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11G-CDD_Ant2_2437



11G-CDD_Ant1_2462

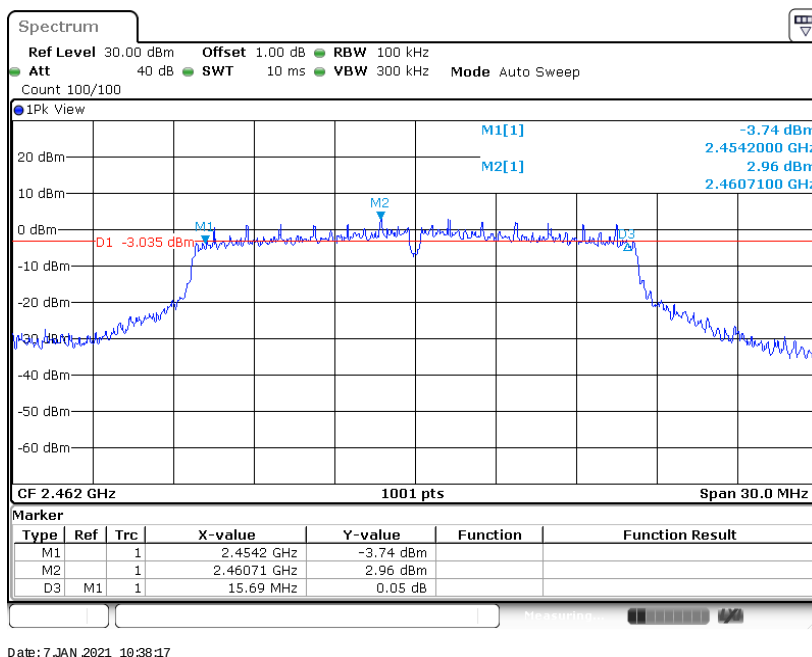


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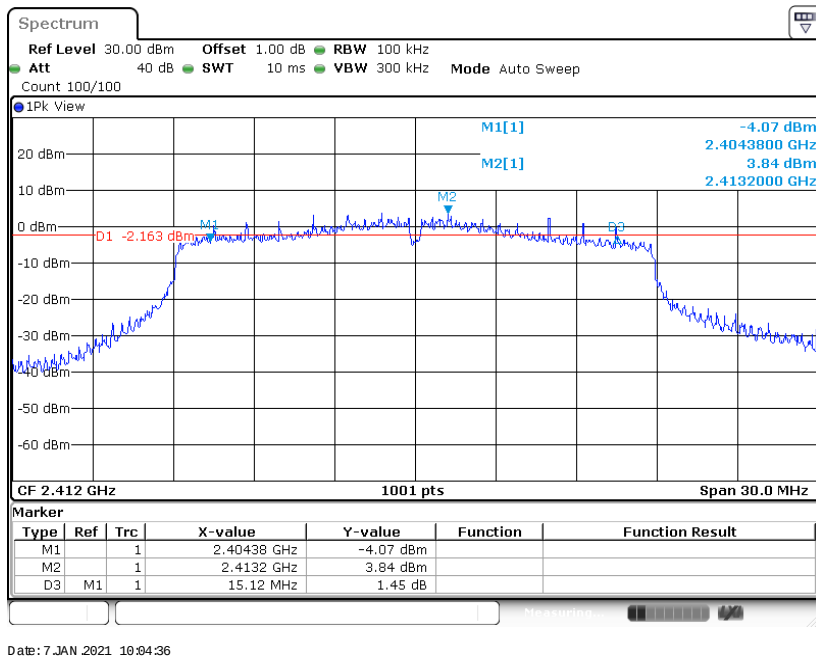
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11G-CDD_Ant2_2462



11N20MIMO_Ant1_2412



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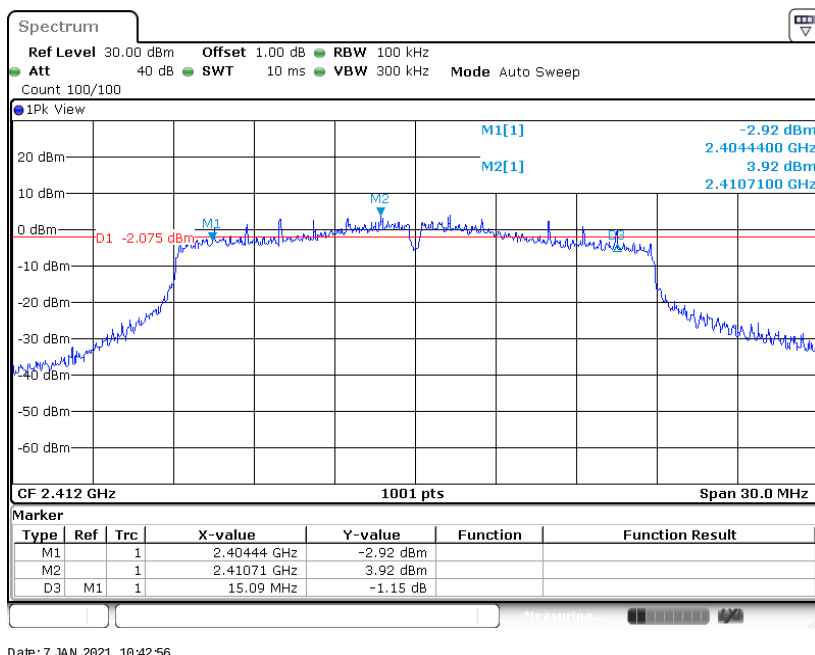
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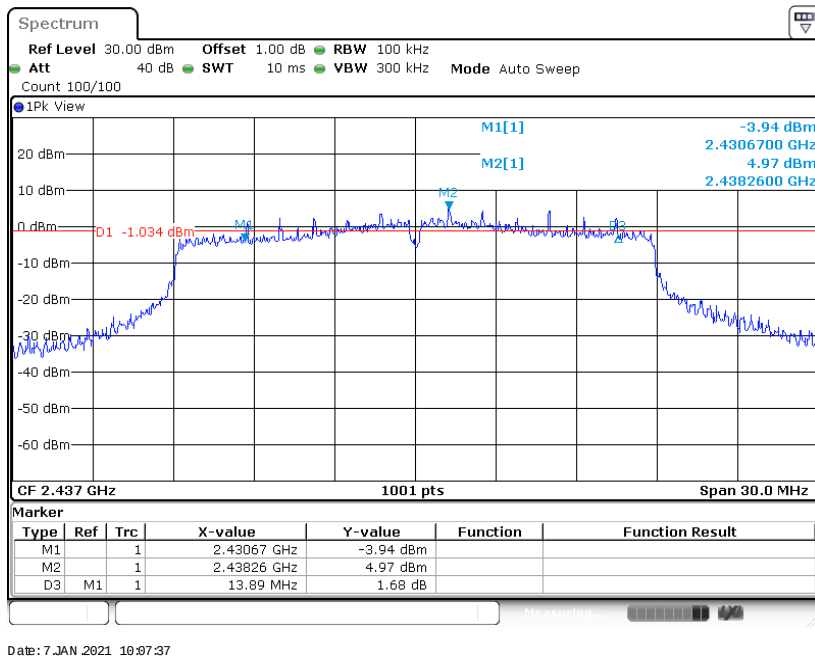
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11N20MIMO_Ant2_2412

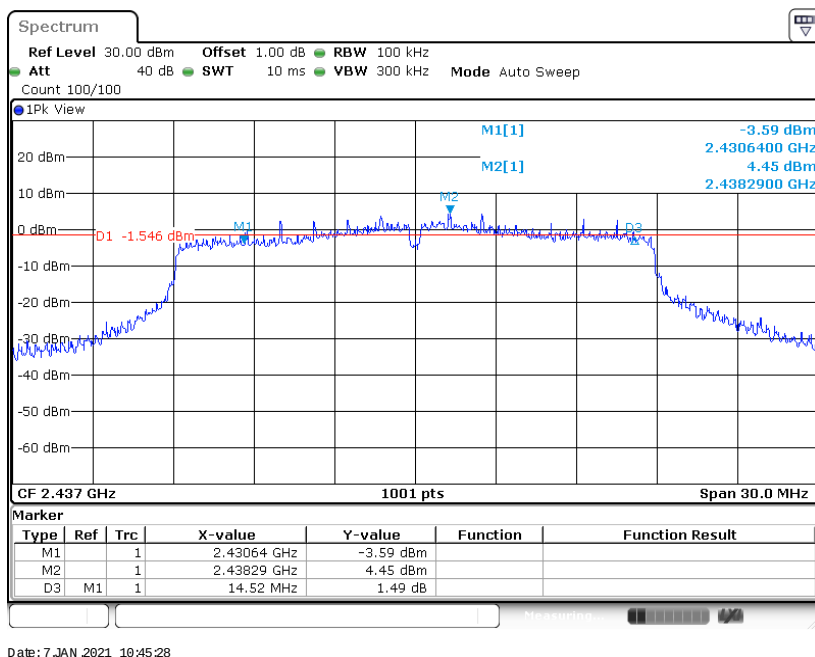


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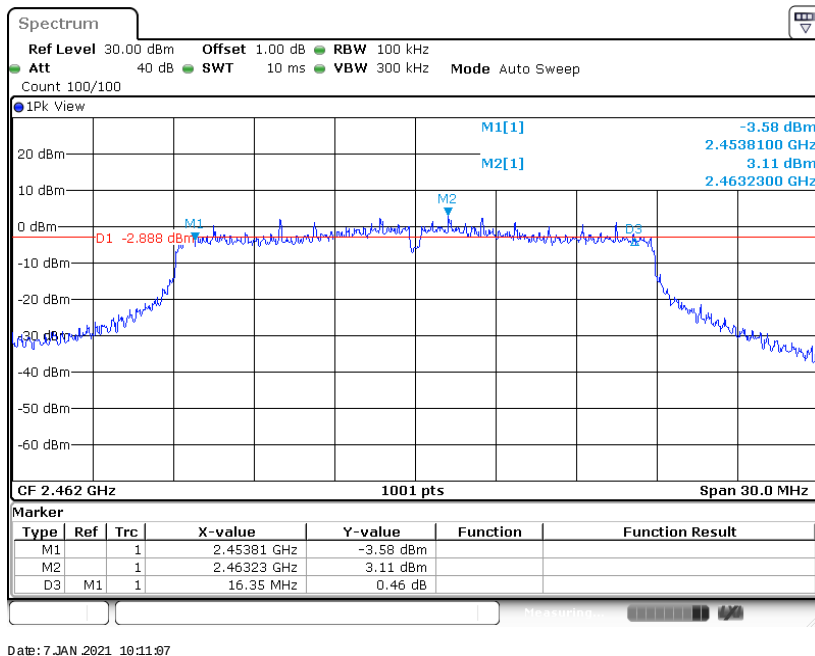




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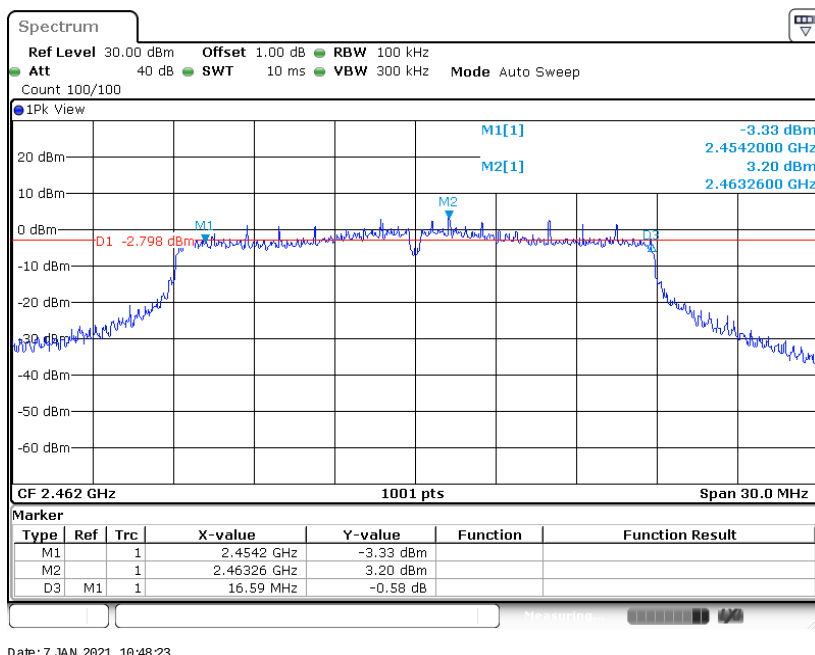


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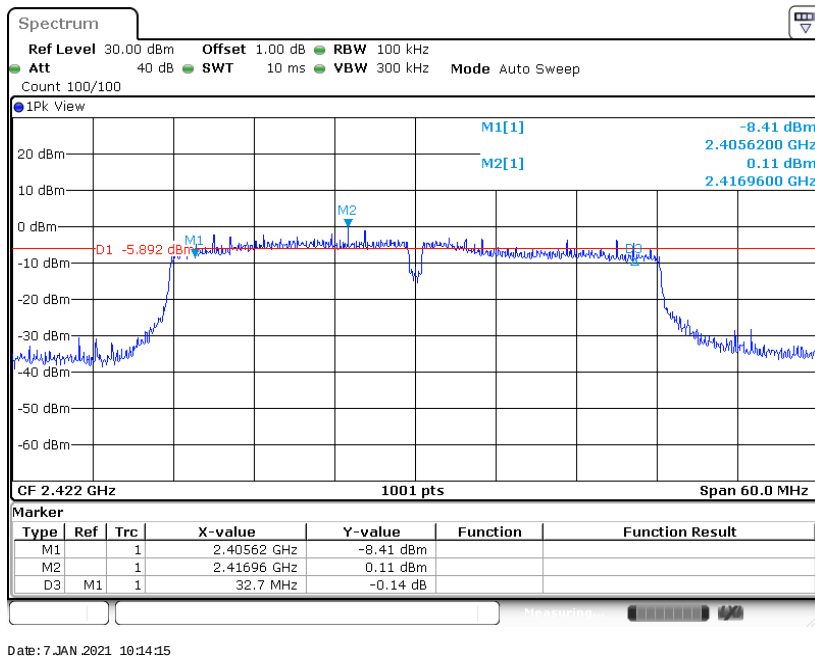




11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



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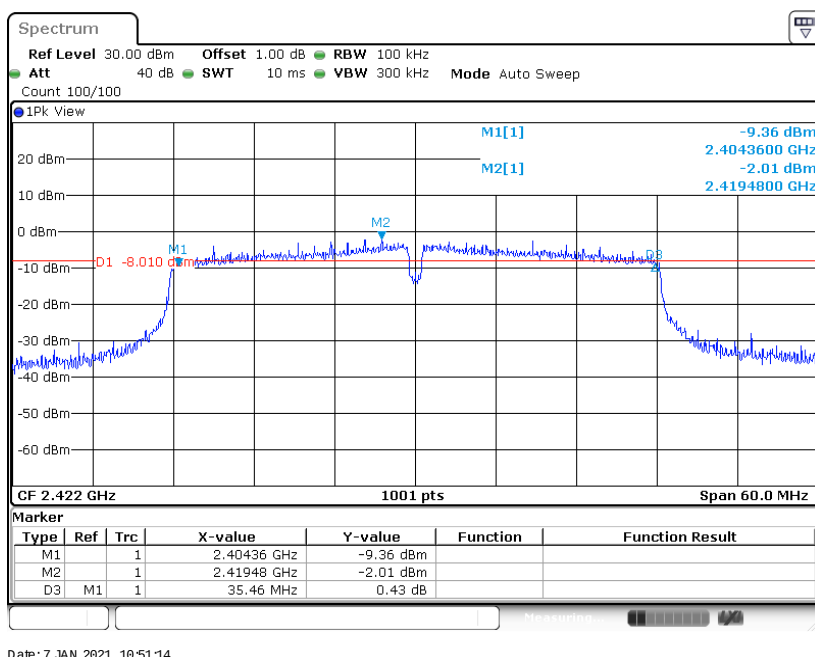
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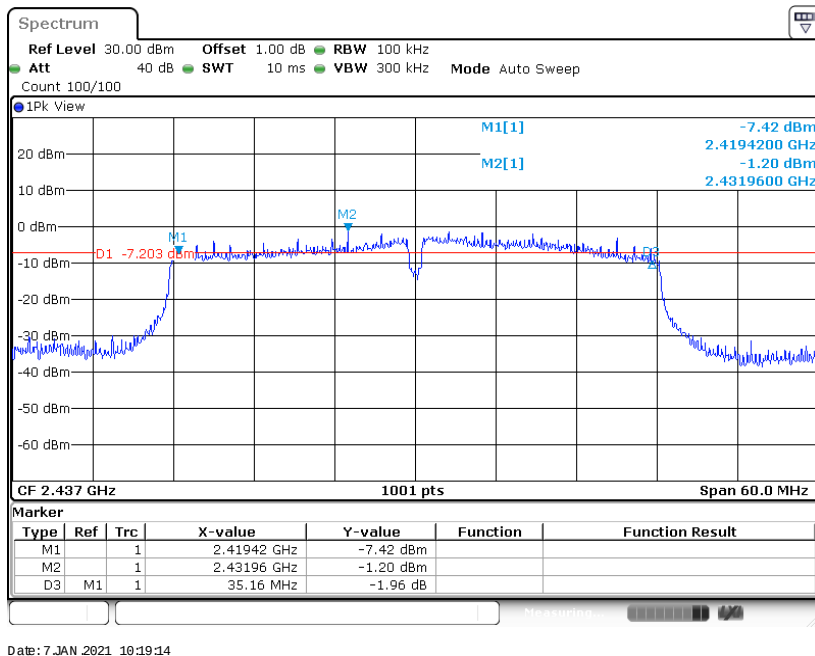
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11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



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