

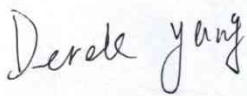
FCC TEST REPORT

Application No.: HR/2020/B0007
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: CHL-LX1
Trade Mark: HONOR
FCC ID: 2AYGCCHL-LX1
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/9
Date of Test: 2020/12/9 to 2020/12/31
Date of Issue: 2021/2/22

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		2020-12-31		Original
02		2021-2-22		Comment Revised

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



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2 Test Summary

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



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Contents

1	Version.....	2
2	Test Summary.....	3
3	General Information.....	6
3.1	Details of Client.....	6
3.2	Test Location.....	6
3.3	Test Facility.....	7
3.4	General Description of EUT.....	8
3.5	Test Environment and Mode.....	9
3.6	Description of Support Units.....	9
4	Test results and Measurement Data.....	10
4.1	Antenna Requirement.....	10
4.2	AC Power Line Conducted Emissions.....	11
4.3	Duty Cycle.....	15
4.4	Conducted Output Power.....	16
4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth.....	17
4.6	Power Spectral Density.....	18
4.7	Band-edge for RF Conducted Emissions.....	19
4.8	RF Conducted Spurious Emissions.....	20
4.9	Radiated Spurious Emissions.....	21
4.9.1	Radiated emission below 1GHz.....	24
4.9.2	Transmitter emission above 1GHz.....	24
4.10	Restricted bands around fundamental frequency.....	24
4.10.1	Test Plots.....	52
5	Measurement Uncertainty (95% confidence levels, k=2).....	100
6	Equipment List.....	101
7	Photographs - EUT Constructional Details.....	104
	DTS Bandwidth.....	106
	Test Result.....	106
	Test Graphs.....	107
	Occupied Channel Bandwidth.....	119
	Test Result.....	119
	Test Graphs.....	120



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Maximum conducted output power.....	132
Test Result.....	132
Maximum power spectral density.....	133
Test Result.....	133
Test Graphs.....	134
Band edge measurements.....	146
Test Result.....	146
Test Graphs.....	147
Conducted Spurious Emission.....	155
Test Result.....	155
Test Graphs.....	157
Duty Cycle.....	193
Test Result.....	193
Test Graphs.....	194



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3 General Information

3.1 Details of Client

Applicant:	Honor Device Co., Ltd.
Address of Applicant	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer:	Honor Device Co., Ltd.
Address of Manufacturer	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China

3.2 Test Location

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



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3.3 Test Facility

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

• **CNAS (No. CNAS L2929)**

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

• **A2LA (Certificate No. 3816.01)**

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

• **VCCI**

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

• **FCC –Designation Number: CN1178**

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

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

• **Industry Canada (IC)**

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



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3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	CHL-LX1
Trade Mark:	HONOR
Hardware Version:	HL3CHLM
Software Version:	5.0.1.69(C900E12R1P2)
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)
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) : OFDM IEEE for 802.11N(HT40) : OFDM
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
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:	-2.0dBi
Power Supply	☒ AC/DC Adapter; ☐ Battery ☐ PoE;; ☐ Other:

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

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)

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)	Frequency for 802.11N (HT40)
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 -2.0dBi.	



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

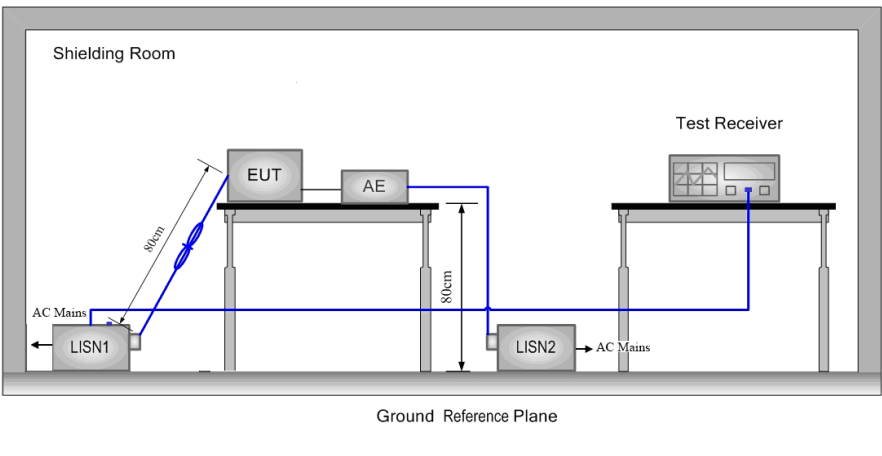
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4.2 AC Power Line Conducted Emissions

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



Report No.: HR/2020/B000704

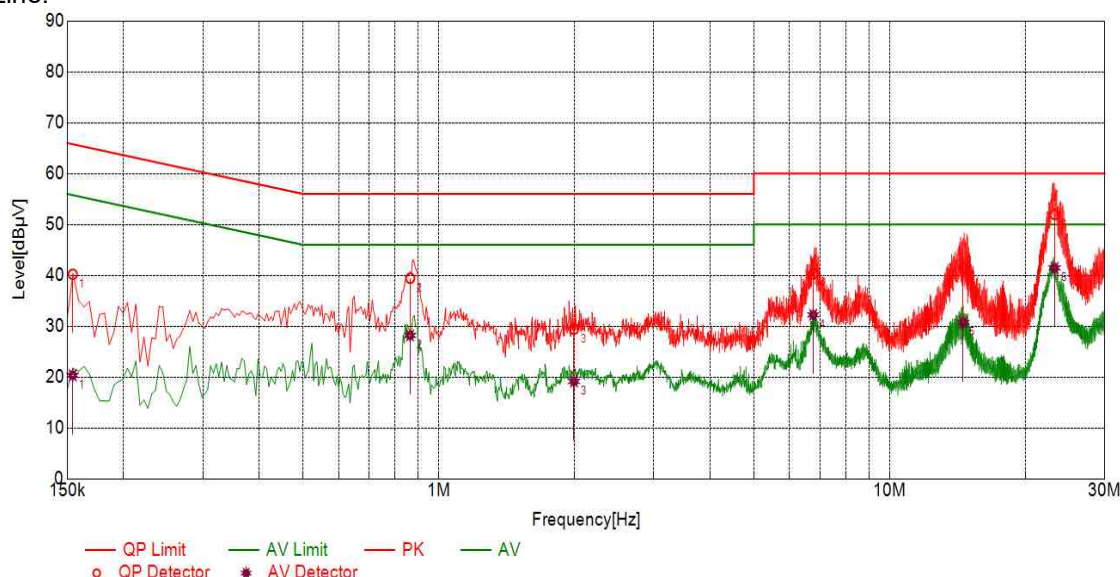
Page: 13 of 205

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	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Type
1	0.1543	10.10	40.21	65.76	25.55	20.35	55.76	35.41	L
2	0.8642	10.10	39.43	56.00	16.57	28.19	46.00	17.81	L
3	1.9954	10.10	29.41	56.00	26.59	19.15	46.00	26.85	L
4	6.7701	10.10	40.27	60.00	19.73	32.21	50.00	17.79	L
5	14.5634	10.11	41.49	60.00	18.51	30.72	50.00	19.28	L
6	23.2267	10.11	51.97	60.00	8.03	41.45	50.00	8.55	L

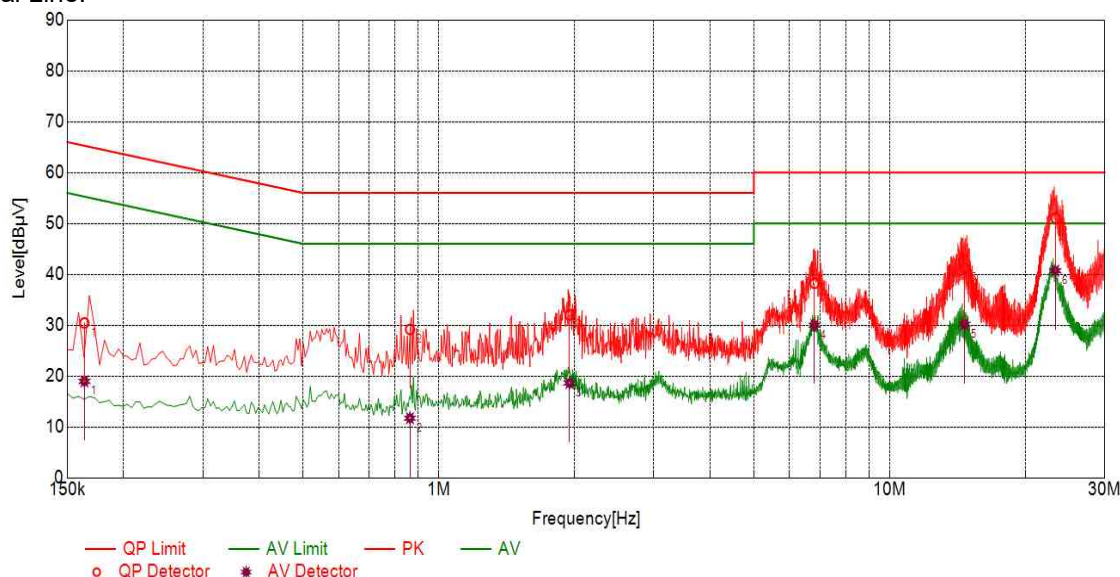


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Shenzhen Branch

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Neutral Line:



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1638	10.10	30.44	65.27	34.83	18.96	55.27	36.31	N
2	0.8635	10.10	29.17	56.00	26.83	11.73	46.00	34.27	N
3	1.9500	10.10	32.00	56.00	24.00	18.64	46.00	27.36	N
4	6.8152	10.10	38.26	60.00	21.74	30.00	50.00	20.00	N
5	14.6619	10.11	41.23	60.00	18.77	30.19	50.00	19.81	N
6	23.3084	10.11	51.07	60.00	8.93	40.71	50.00	9.29	N

Remarks:

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



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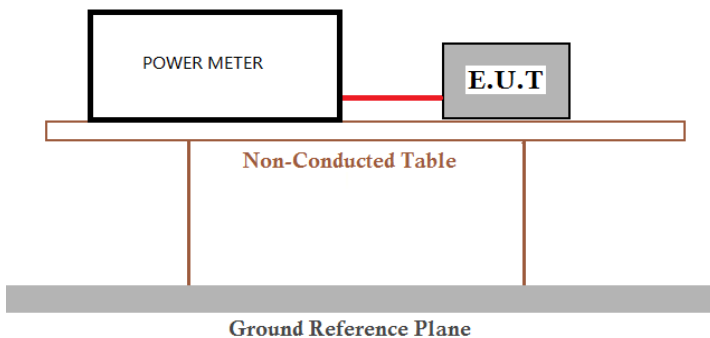
4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

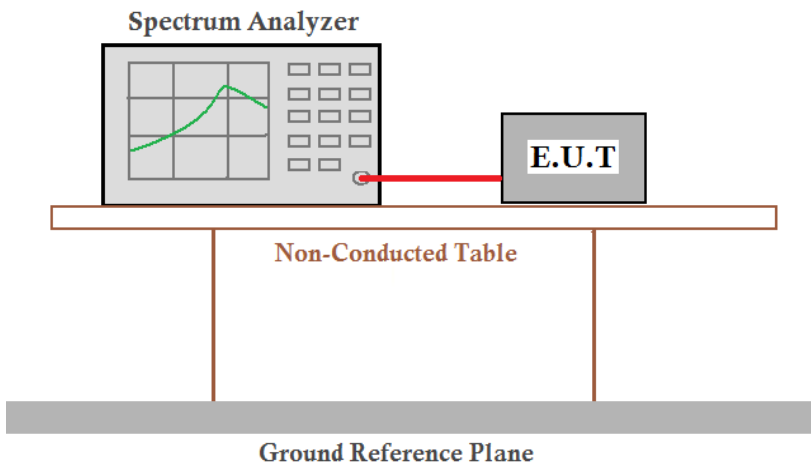
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate 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); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix**



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

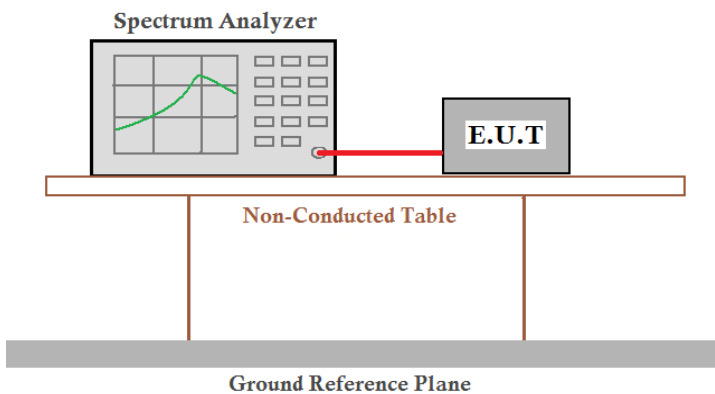
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps 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); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	≥ 500 kHz
Test Results:	Pass

The detailed test data see: **Appendix**



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4.6 Power Spectral Density

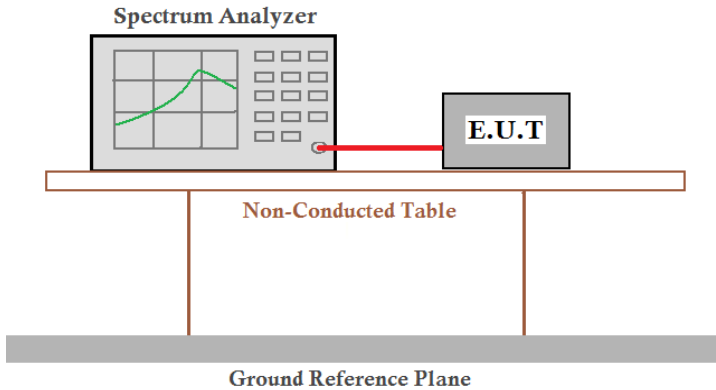
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is 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); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

The detailed test data see: **Appendix**



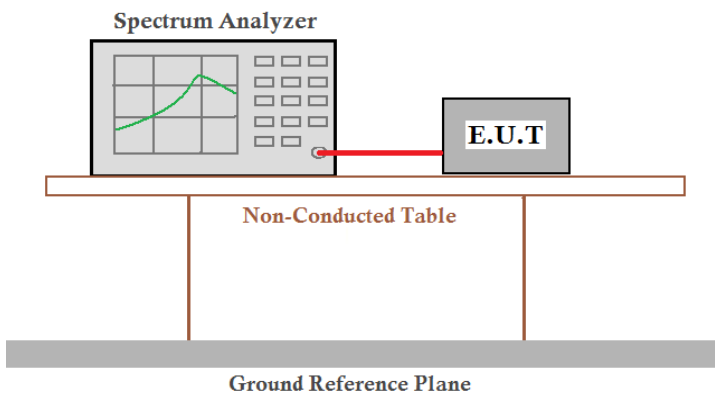
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4.7 Band-edge for RF Conducted Emissions

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 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); 13.5Mbps of rate is the worst case of 802.11N(HT40).
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 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); 13.5Mbps of rate is the worst case of 802.11N(HT40).
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
Limit:	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	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:

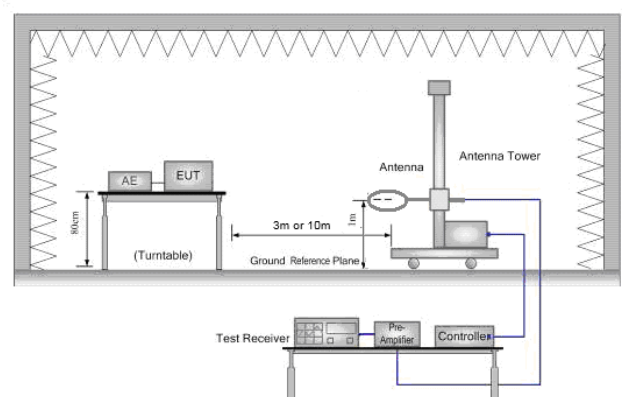


Figure 1. Below 30MHz

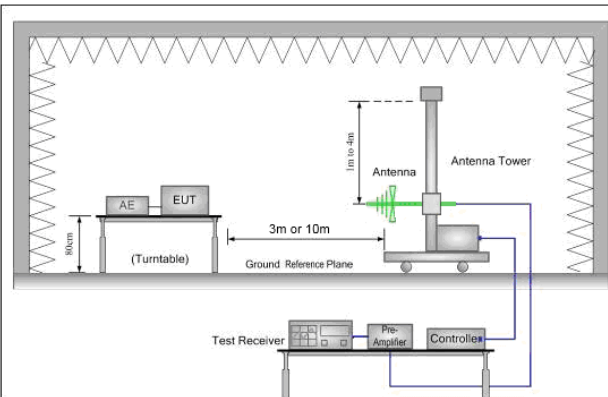


Figure 2. 30MHz to 1GHz

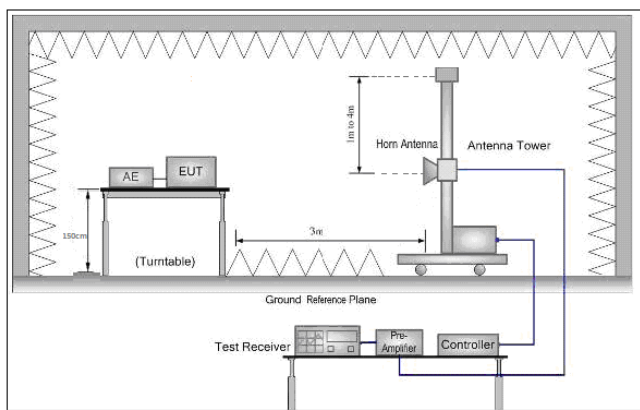


Figure 3. Above 1 GHz

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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Report No.: HR/2020/B000704

Page: 23 of 205

	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); 13.5Mbps of rate is the worst case of 802.11N(HT40); 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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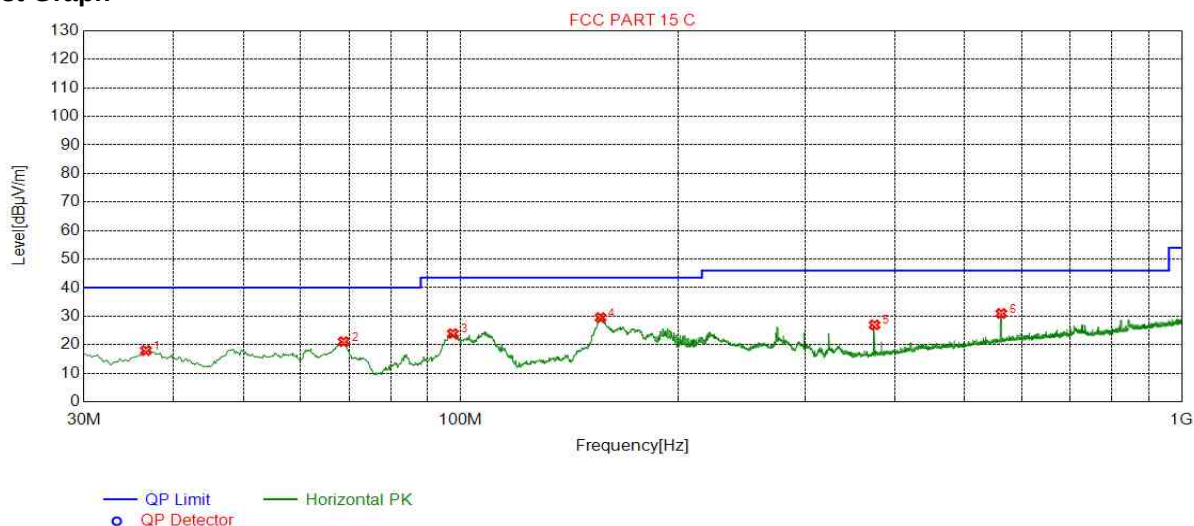
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4.9.1 Radiated emission below 1GHz

4.9.2 Radiated emission below 1GHz

4.9.2.1 Charge + Transmitting, Vertical

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.5973	17.99	40.00	22.01	200	260	Horizontal
2	68.8078	21.09	40.00	18.91	200	231	Horizontal
3	97.5255	23.91	43.50	19.59	200	222	Horizontal
4	156.3193	29.53	43.50	13.97	200	276	Horizontal
5	375.0010	26.98	46.00	19.02	100	17	Horizontal
6	562.0544	30.97	46.00	15.03	200	305	Horizontal

Final Data List



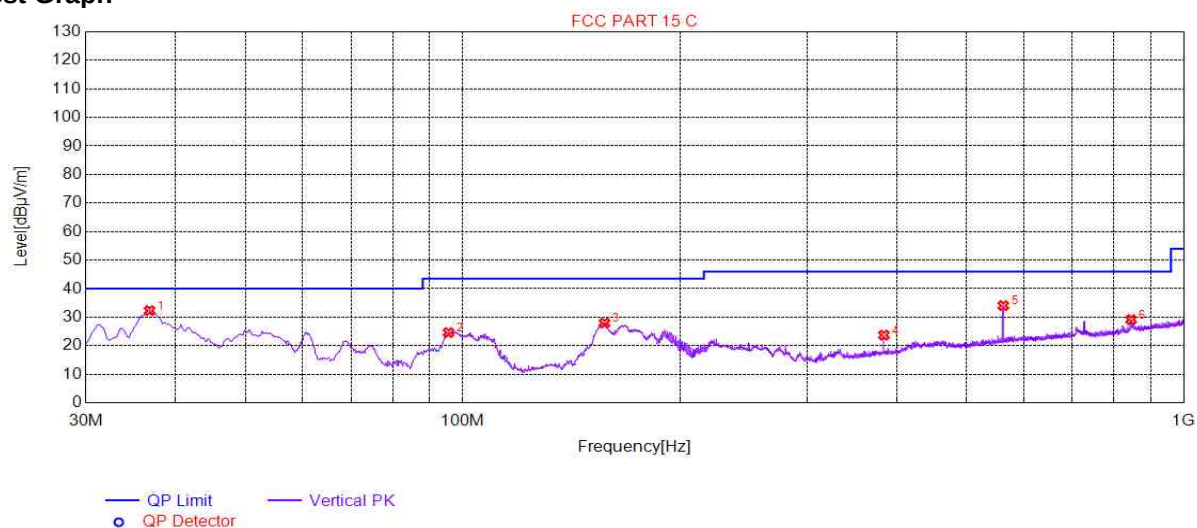
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Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7914	32.32	40.00	7.68	100	331	Vertical
2	95.5851	24.63	43.50	18.87	100	103	Vertical
3	157.2895	27.96	43.50	15.54	200	162	Vertical
4	383.9268	23.73	46.00	22.27	200	104	Vertical
5	562.0544	34.08	46.00	11.92	100	28	Vertical
6	845.3511	29.16	46.00	16.84	200	20	Vertical

Final Data List



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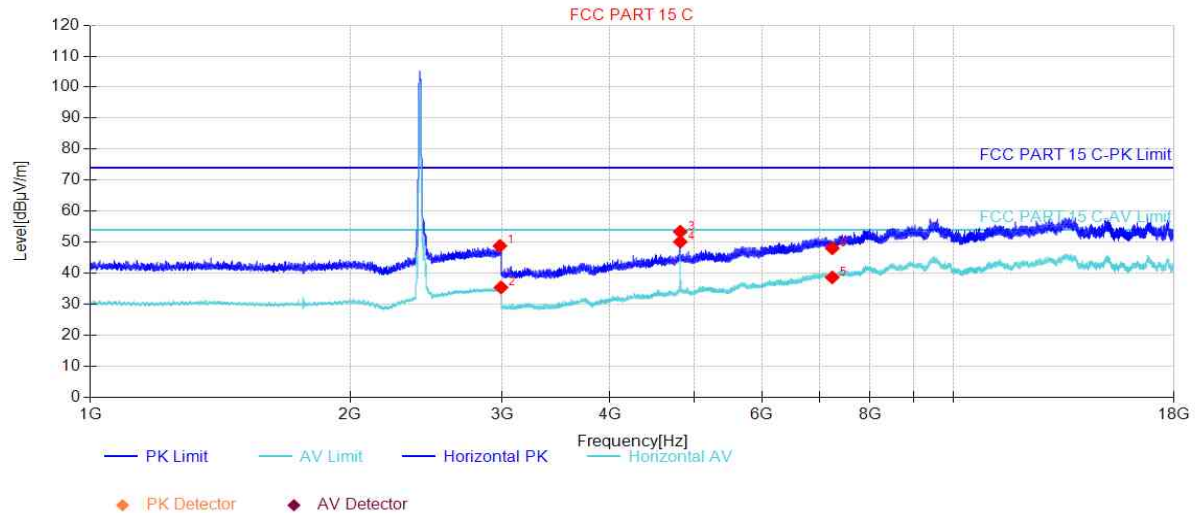
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4.9.3 Transmitter emission above 1GHz

4.9.3.1 802.11B_Channel 1

Test Graph



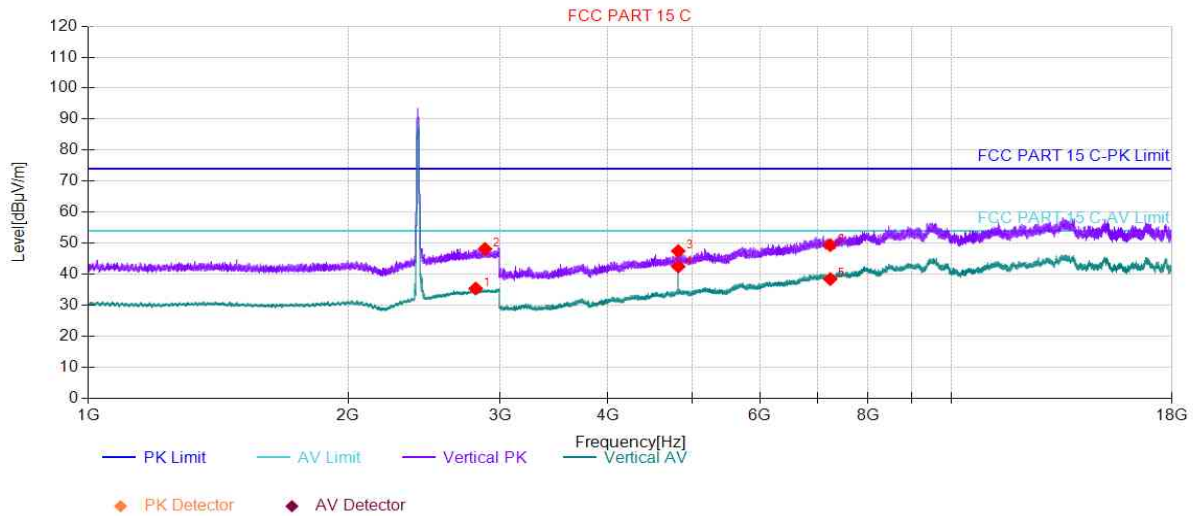
Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2981.998	48.78	7.33	74.00	25.22	150	Horizontal
2	2991.199	35.40	7.37	54.00	18.60	150	Horizontal
3	4824.060	53.38	-10.56	74.00	20.62	150	Horizontal
4	4824.560	49.82	-10.56	54.00	4.18	150	Horizontal
5	7236.000	38.63	-2.59	54.00	15.37	150	Horizontal
6	7236.000	48.00	-2.59	74.00	26.00	150	Horizontal

Final Data List

4.9.3.2 802.11B_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	2810.581	35.34	6.75	54.00	18.66	150	Vertical
2	2881.388	48.12	6.91	74.00	25.88	150	Vertical
3	4824.060	47.45	-10.56	74.00	26.55	150	Vertical
4	4824.560	42.46	-10.56	54.00	11.54	150	Vertical
5	7236.000	38.43	-2.59	54.00	15.57	150	Vertical
6	7236.000	49.36	-2.59	74.00	24.64	150	Vertical

Final Data List

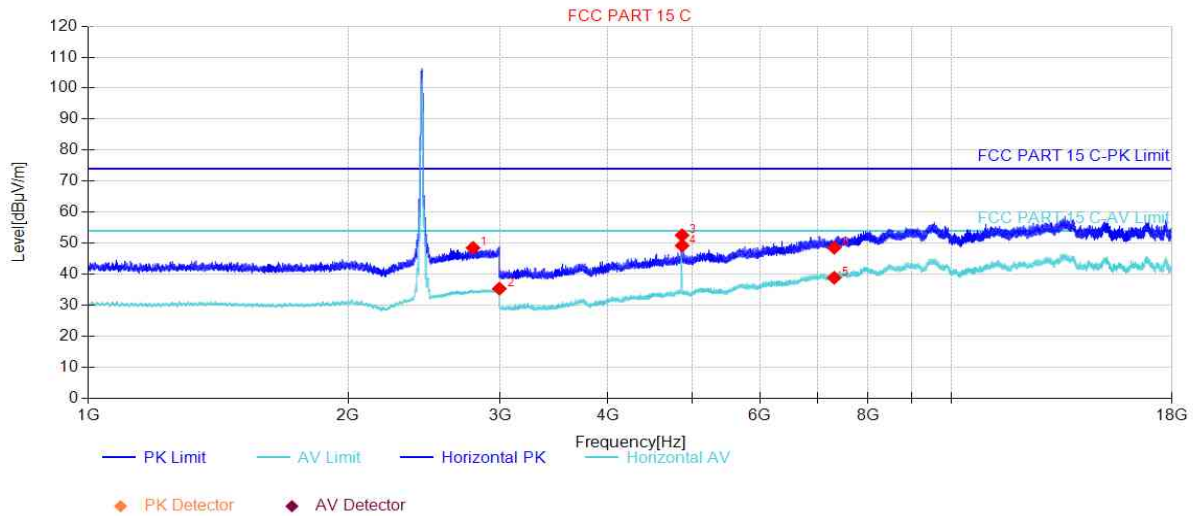


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4.9.3.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2790.379	48.49	6.63	74.00	25.51	150	Horizontal
2	2993.799	35.32	7.38	54.00	18.68	150	Horizontal
3	4874.062	52.53	-10.40	74.00	21.47	150	Horizontal
4	4874.562	49.22	-10.40	54.00	4.78	150	Horizontal
5	7311.000	38.83	-2.58	54.00	15.17	150	Horizontal
6	7311.000	48.52	-2.58	74.00	25.48	150	Horizontal

Final Data List

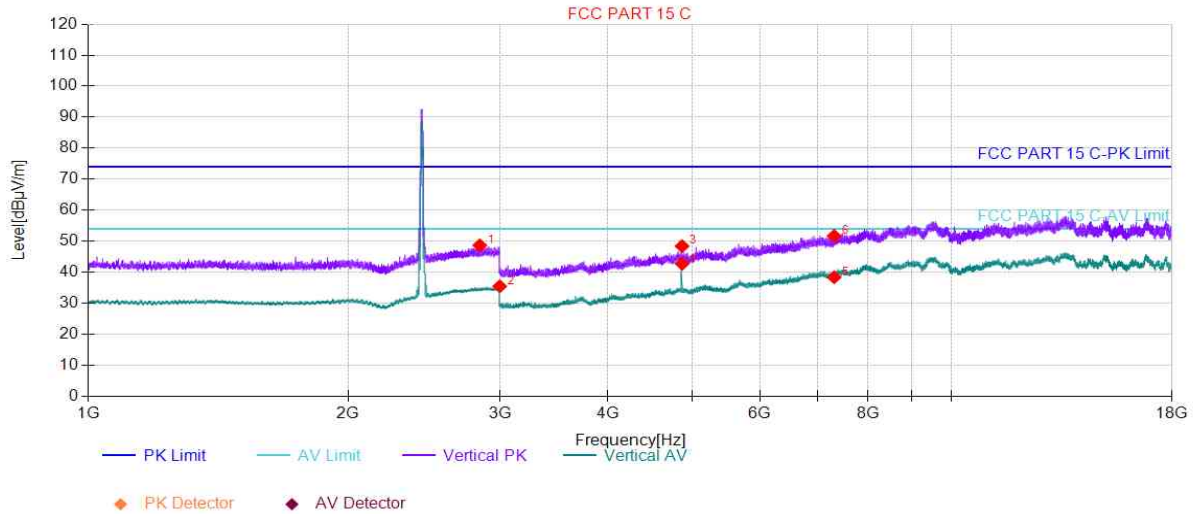


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4.9.3.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2841.184	48.66	6.82	74.00	25.34	150	Vertical
2	2996.799	35.43	7.40	54.00	18.57	150	Vertical
3	4873.562	48.40	-10.40	74.00	25.60	150	Vertical
4	4874.562	42.71	-10.40	54.00	11.29	150	Vertical
5	7311.000	38.35	-2.58	54.00	15.65	150	Vertical
6	7311.000	51.67	-2.58	74.00	22.33	150	Vertical

Final Data List

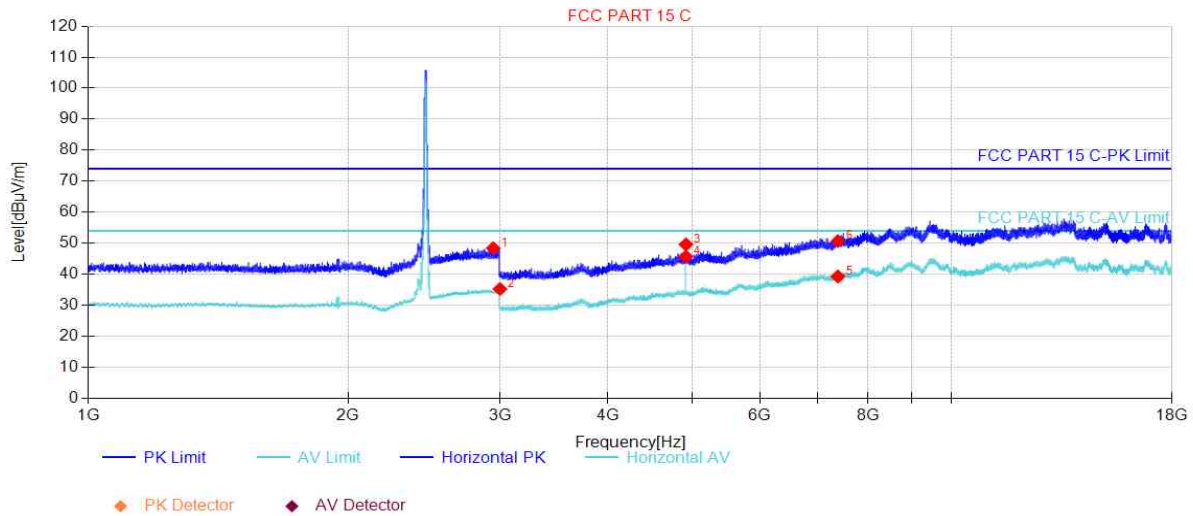


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4.9.3.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2945.194	48.35	7.16	74.00	25.65	150	Horizontal
2	2998.599	35.21	7.40	54.00	18.79	150	Horizontal
3	4924.064	49.57	-10.22	74.00	24.43	150	Horizontal
4	4924.564	45.66	-10.22	54.00	8.34	150	Horizontal
5	7386.000	39.26	-2.06	54.00	14.74	150	Horizontal
6	7386.000	50.68	-2.06	74.00	23.32	150	Horizontal

Final Data List

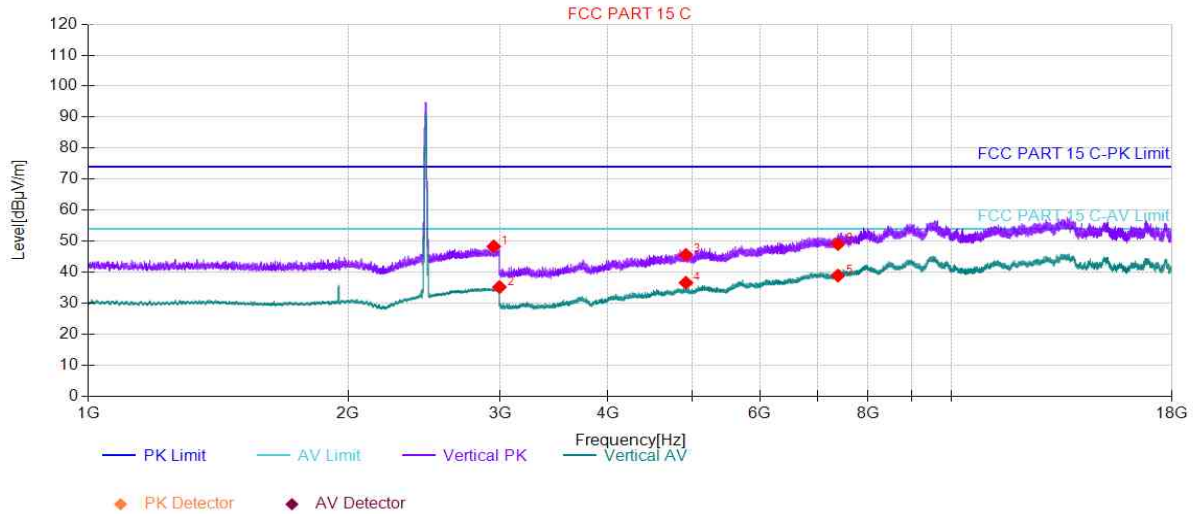


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4.9.3.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2948.994	48.30	7.18	74.00	25.70	150	Vertical
2	2994.799	35.18	7.39	54.00	18.82	150	Vertical
3	4924.000	45.57	-10.22	74.00	28.43	150	Vertical
4	4924.000	36.56	-10.22	54.00	17.44	150	Vertical
5	7386.000	38.88	-2.06	54.00	15.12	150	Vertical
6	7386.000	49.08	-2.06	74.00	24.92	150	Vertical

Final Data List

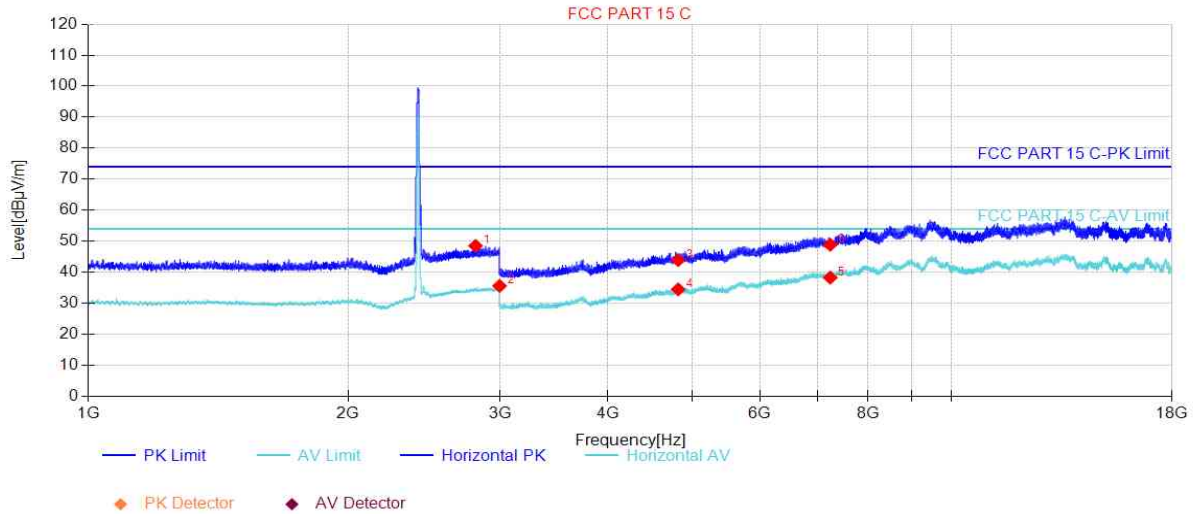


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4.9.3.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2809.380	48.49	6.75	74.00	25.51	150	Horizontal
2	2995.599	35.56	7.39	54.00	18.44	150	Horizontal
3	4824.000	43.88	-10.56	74.00	30.12	150	Horizontal
4	4824.000	34.45	-10.56	54.00	19.55	150	Horizontal
5	7236.000	38.24	-2.59	54.00	15.76	150	Horizontal
6	7236.000	48.85	-2.59	74.00	25.15	150	Horizontal

Final Data List

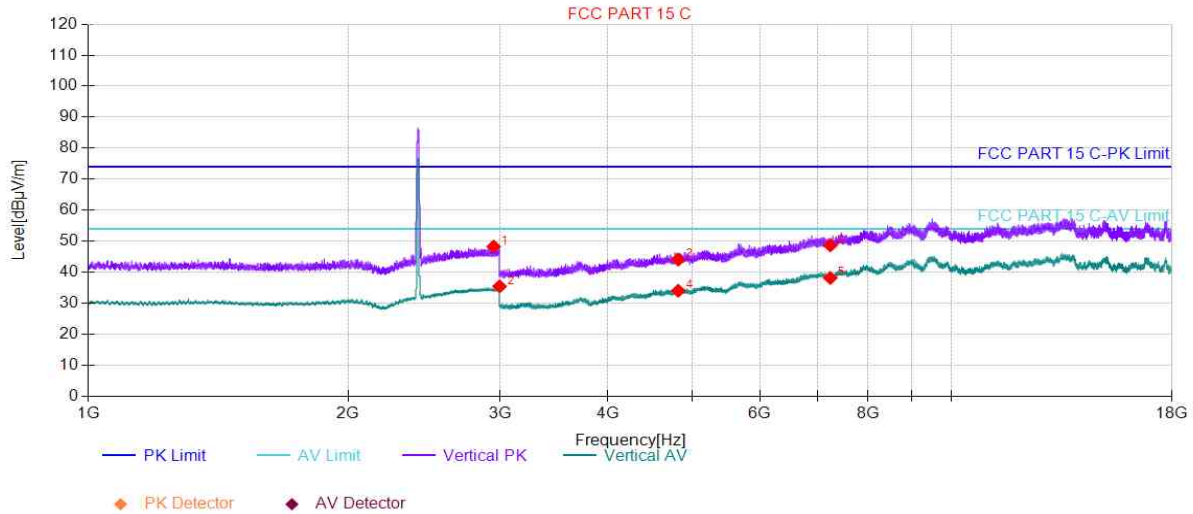


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4.9.3.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2948.594	48.27	7.17	74.00	25.73	150	Vertical
2	2995.799	35.41	7.39	54.00	18.59	150	Vertical
3	4824.000	44.06	-10.56	74.00	29.94	150	Vertical
4	4824.000	33.99	-10.56	54.00	20.01	150	Vertical
5	7236.000	38.13	-2.59	54.00	15.87	150	Vertical
6	7236.000	48.62	-2.59	74.00	25.38	150	Vertical

Final Data List

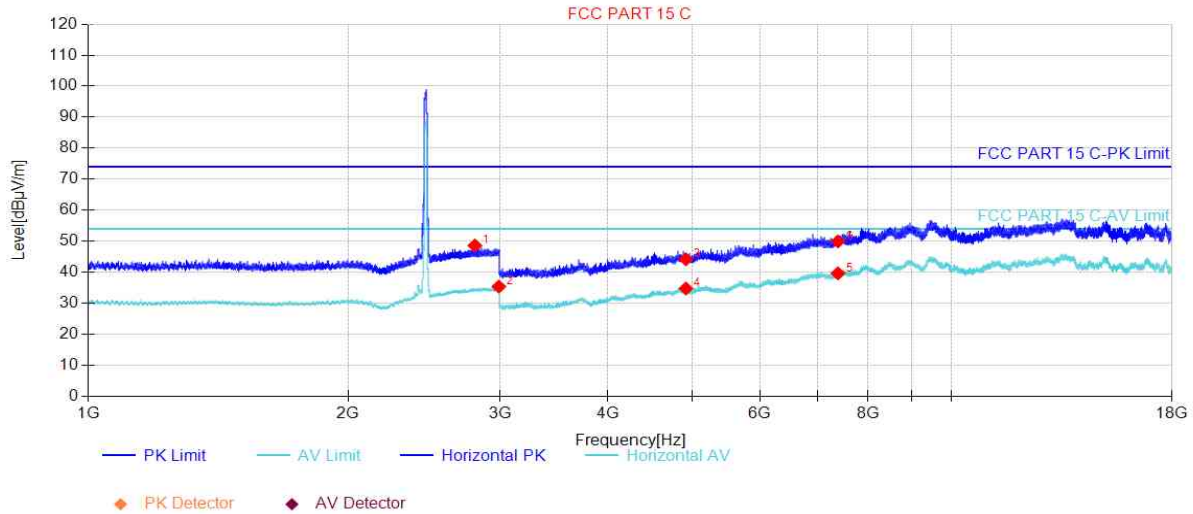


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4.9.3.9 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2804.380	48.59	6.74	74.00	25.41	150	Horizontal
2	2989.398	35.35	7.36	54.00	18.65	150	Horizontal
3	4924.000	44.15	-10.22	74.00	29.85	150	Horizontal
4	4924.000	34.72	-10.22	54.00	19.28	150	Horizontal
5	7386.000	39.60	-2.06	54.00	14.40	150	Horizontal
6	7386.000	49.91	-2.06	74.00	24.09	150	Horizontal

Final Data List

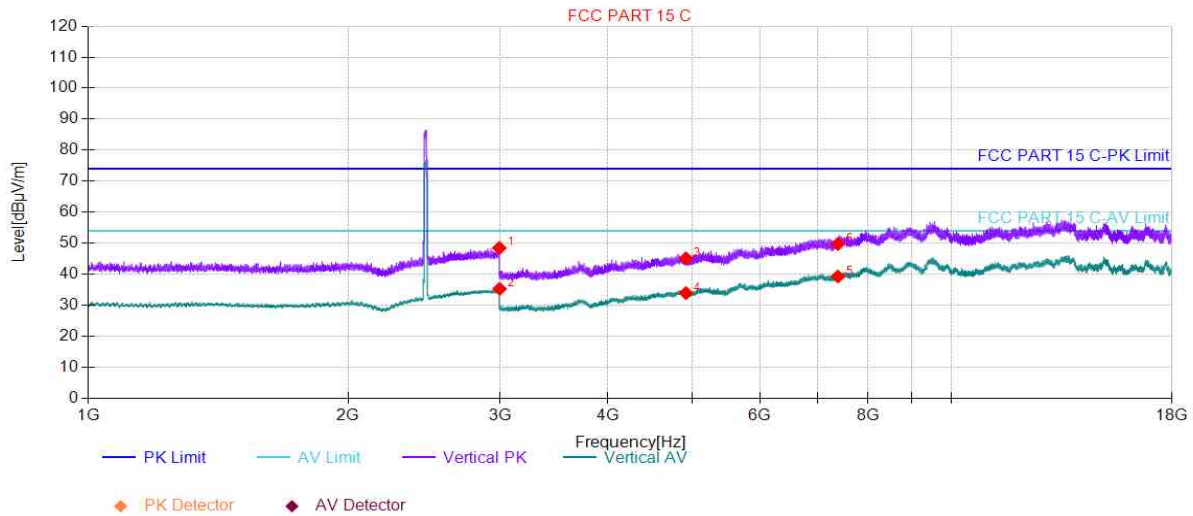


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4.9.3.10 802.11G_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2993.599	48.45	7.38	74.00	25.55	150	Vertical
2	2995.999	35.27	7.39	54.00	18.73	150	Vertical
3	4924.000	45.07	-10.22	74.00	28.93	150	Vertical
4	4924.000	33.88	-10.22	54.00	20.12	150	Vertical
5	7386.000	39.24	-2.06	54.00	14.76	150	Vertical
6	7386.000	49.74	-2.06	74.00	24.26	150	Vertical

Final Data List

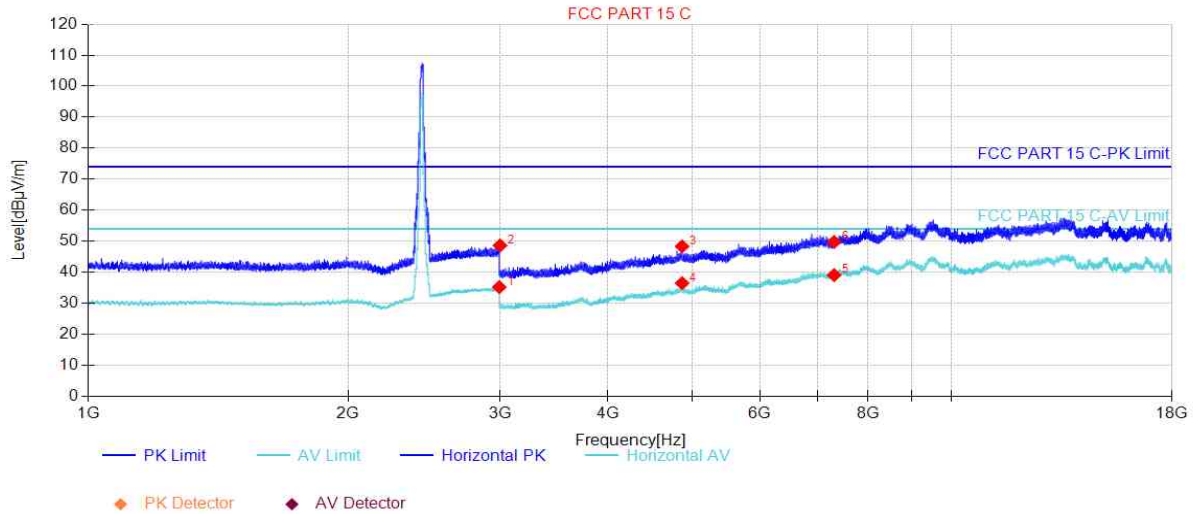


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4.9.3.11 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2993.599	35.17	7.38	54.00	18.83	150	Horizontal
2	2998.999	48.61	7.41	74.00	25.39	150	Horizontal
3	4874.000	48.33	-10.40	74.00	25.67	150	Horizontal
4	4874.000	36.46	-10.40	54.00	17.54	150	Horizontal
5	7311.000	39.04	-2.58	54.00	14.96	150	Horizontal
6	7311.000	49.73	-2.58	74.00	24.27	150	Horizontal

Final Data List

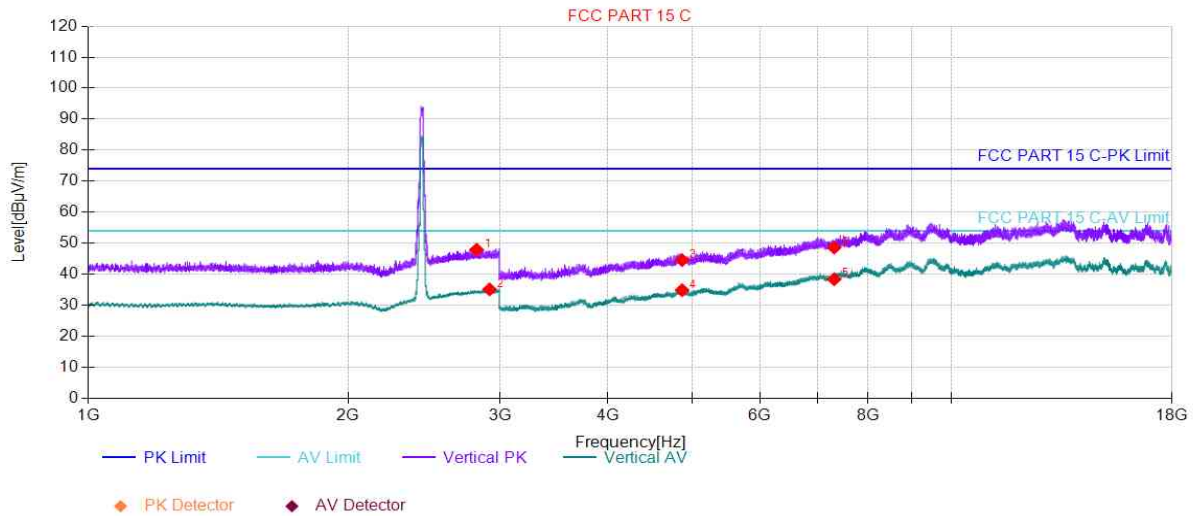


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4.9.3.12 802.11G_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2816.981	47.89	6.77	74.00	26.11	150	Vertical
2	2916.591	35.08	7.03	54.00	18.92	150	Vertical
3	4874.000	44.52	-10.40	74.00	29.48	150	Vertical
4	4874.000	34.84	-10.40	54.00	19.16	150	Vertical
5	7311.000	38.36	-2.58	54.00	15.64	150	Vertical
6	7311.000	48.57	-2.58	74.00	25.43	150	Vertical

Final Data List

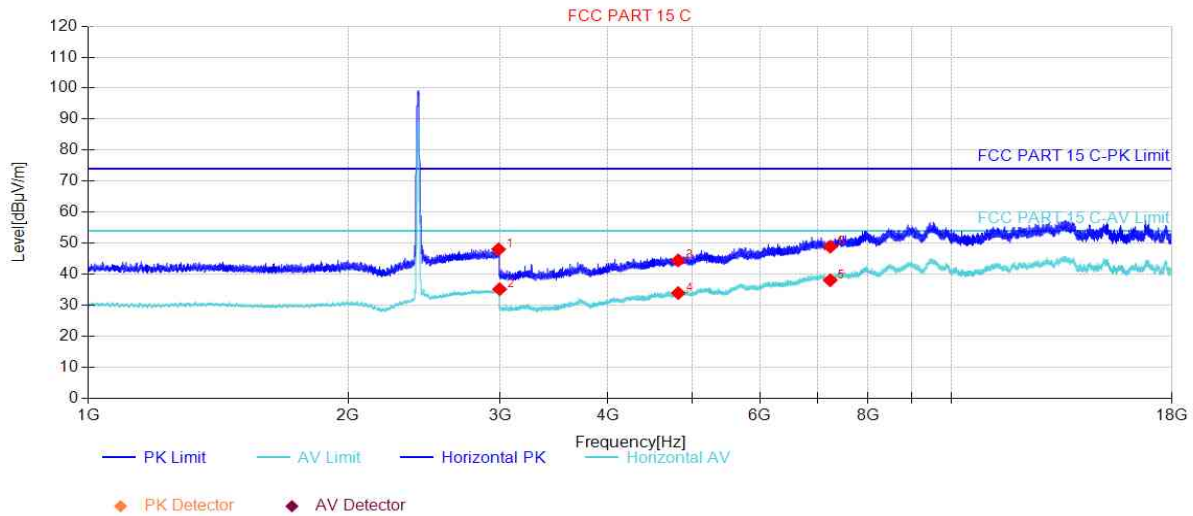


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4.9.3.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2987.398	48.02	7.35	74.00	25.98	150	Horizontal
2	2995.999	35.16	7.39	54.00	18.84	150	Horizontal
3	4824.000	44.44	-10.56	74.00	29.56	150	Horizontal
4	4824.000	33.90	-10.56	54.00	20.10	150	Horizontal
5	7236.000	38.04	-2.59	54.00	15.96	150	Horizontal
6	7236.000	48.86	-2.59	74.00	25.14	150	Horizontal

Final Data List

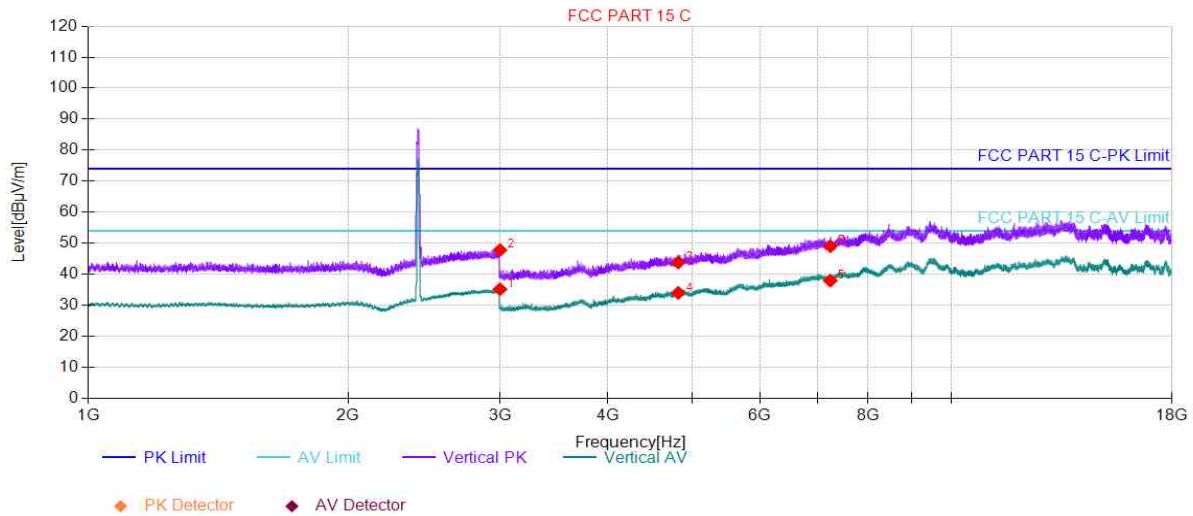


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4.9.3.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2998.599	35.13	7.40	54.00	18.87	150	Vertical
2	2998.999	47.77	7.41	74.00	26.23	150	Vertical
3	4824.000	43.75	-10.56	74.00	30.25	150	Vertical
4	4824.000	33.95	-10.56	54.00	20.05	150	Vertical
5	7236.000	37.90	-2.59	54.00	16.10	150	Vertical
6	7236.000	49.02	-2.59	74.00	24.98	150	Vertical

Final Data List

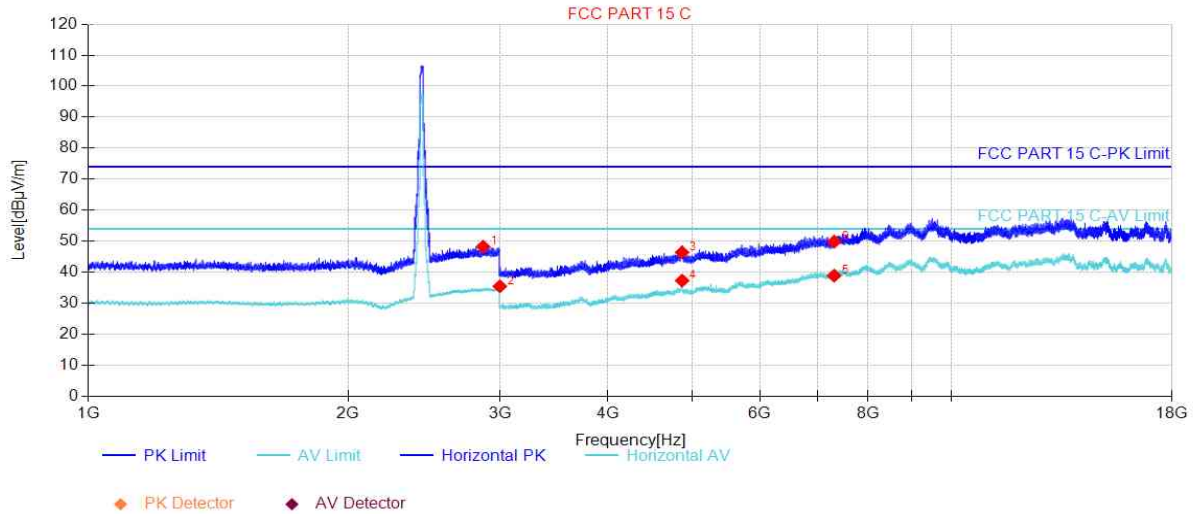


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4.9.3.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2866.586	48.23	6.88	74.00	25.77	150	Horizontal
2	2997.799	35.43	7.40	54.00	18.57	150	Horizontal
3	4874.000	46.37	-10.40	74.00	27.63	150	Horizontal
4	4874.000	37.27	-10.40	54.00	16.73	150	Horizontal
5	7311.000	38.86	-2.58	54.00	15.14	150	Horizontal
6	7311.000	49.82	-2.58	74.00	24.18	150	Horizontal

Final Data List

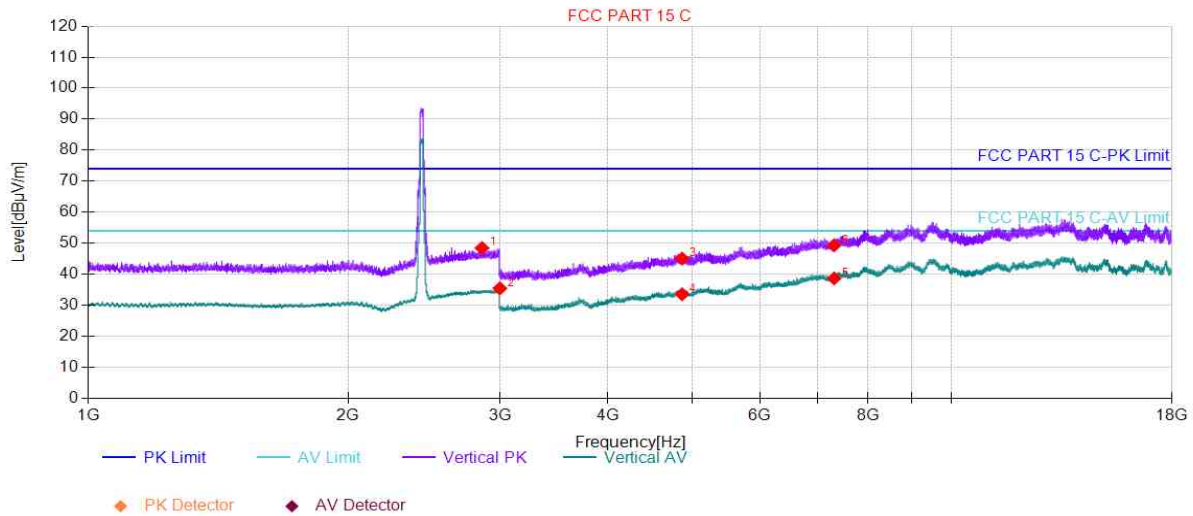


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4.9.3.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2858.185	48.41	6.86	74.00	25.59	150	Vertical
2	2997.599	35.42	7.40	54.00	18.58	150	Vertical
3	4874.000	45.02	-10.40	74.00	28.98	150	Vertical
4	4874.000	33.52	-10.40	54.00	20.48	150	Vertical
5	7311.000	38.64	-2.58	54.00	15.36	150	Vertical
6	7311.000	49.30	-2.58	74.00	24.70	150	Vertical

Final Data List

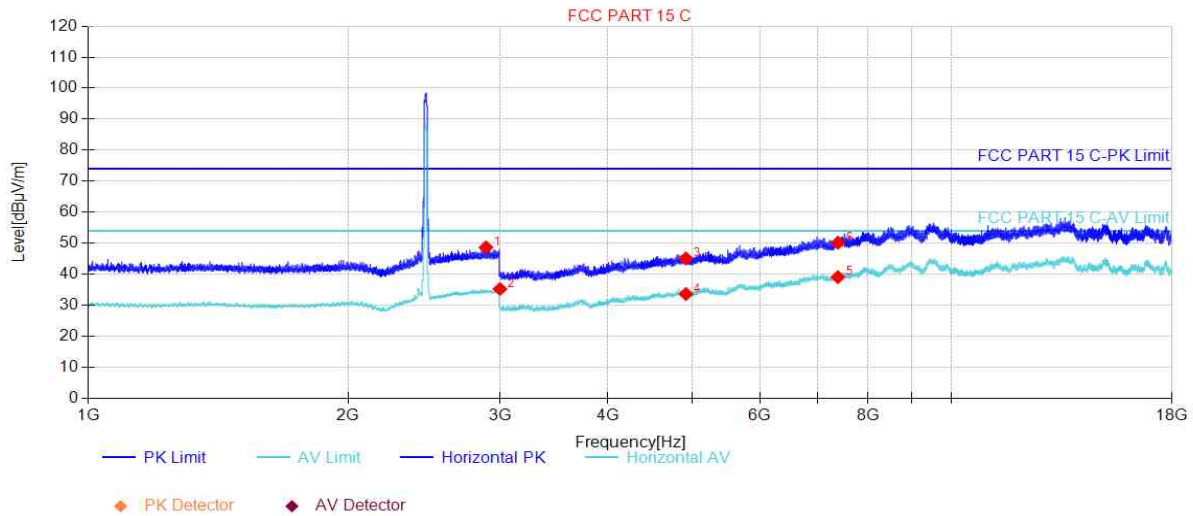


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4.9.3.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2888.388	48.65	6.92	74.00	25.35	150	Horizontal
2	2998.799	35.21	7.40	54.00	18.79	150	Horizontal
3	4924.000	45.06	-10.22	74.00	28.94	150	Horizontal
4	4924.000	33.59	-10.22	54.00	20.41	150	Horizontal
5	7386.000	39.04	-2.06	54.00	14.96	150	Horizontal
6	7386.000	50.15	-2.06	74.00	23.85	150	Horizontal

Final Data List

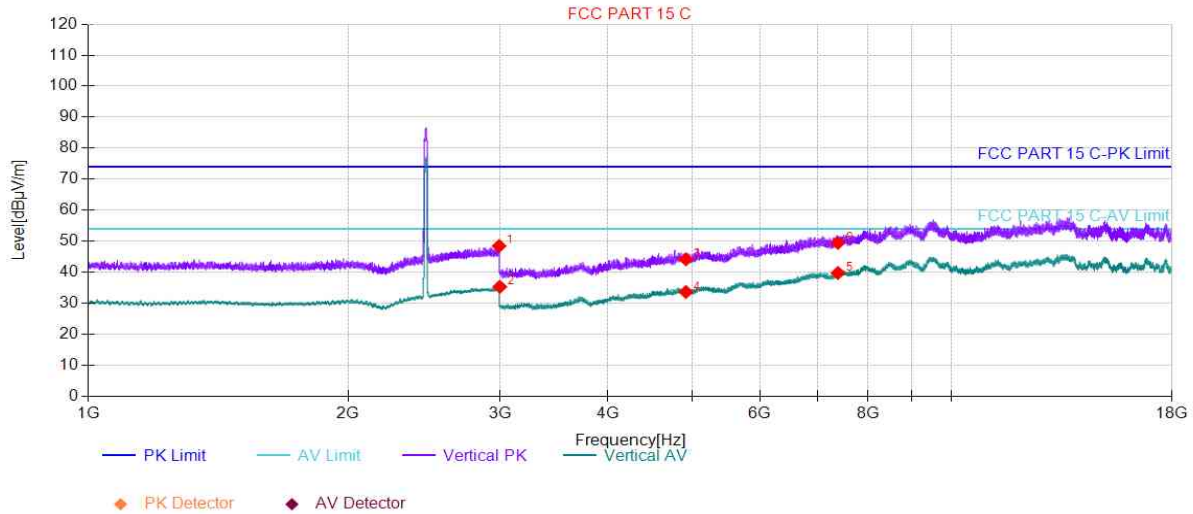


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4.9.3.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.799	48.45	7.37	74.00	25.55	150	Vertical
2	2997.199	35.28	7.40	54.00	18.72	150	Vertical
3	4924.000	44.15	-10.22	74.00	29.85	150	Vertical
4	4924.000	33.60	-10.22	54.00	20.40	150	Vertical
5	7386.000	39.72	-2.06	54.00	14.28	150	Vertical
6	7386.000	49.44	-2.06	74.00	24.56	150	Vertical

Final Data List

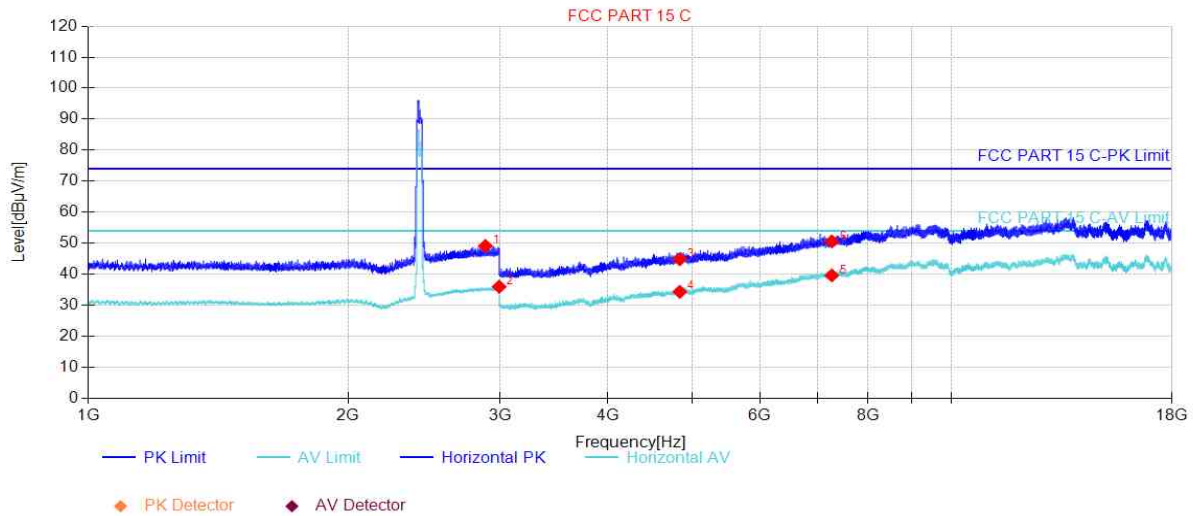


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4.9.3.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2884.388	49.09	6.92	74.00	24.91	150	Horizontal
2	2991.999	35.94	7.37	54.00	18.06	150	Horizontal
3	4844.000	44.77	-10.50	74.00	29.23	150	Horizontal
4	4844.000	34.29	-10.50	54.00	19.71	150	Horizontal
5	7266.000	39.58	-2.62	54.00	14.42	150	Horizontal
6	7266.000	50.56	-2.62	74.00	23.44	150	Horizontal

Final Data List

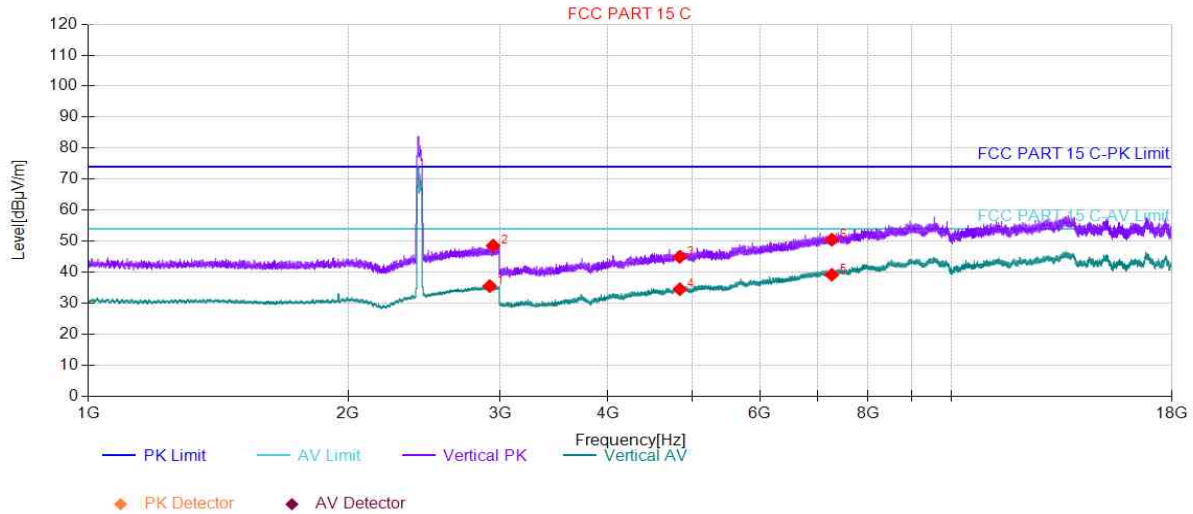


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4.9.3.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2917.791	35.50	7.03	54.00	18.50	150	Vertical
2	2944.194	48.57	7.15	74.00	25.43	150	Vertical
3	4844.000	44.93	-10.50	74.00	29.07	150	Vertical
4	4844.000	34.49	-10.50	54.00	19.51	150	Vertical
5	7266.000	39.15	-2.62	54.00	14.85	150	Vertical
6	7266.000	50.50	-2.62	74.00	23.50	150	Vertical

Final Data List

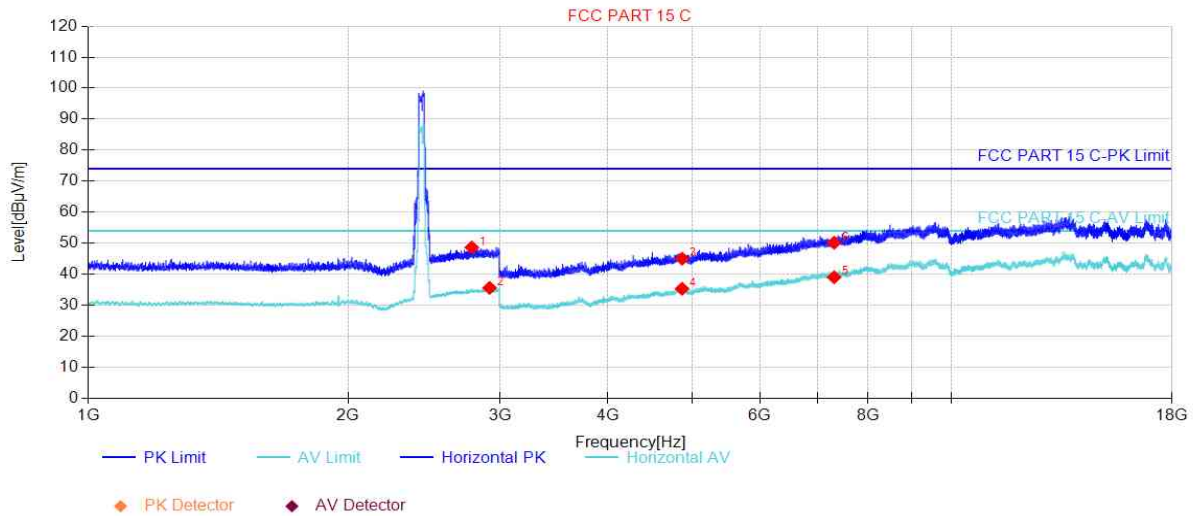


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4.9.3.21 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2781.778	48.62	6.54	74.00	25.38	150	Horizontal
2	2916.791	35.57	7.03	54.00	18.43	150	Horizontal
3	4874.000	44.99	-10.40	74.00	29.01	150	Horizontal
4	4874.000	35.29	-10.40	54.00	18.71	150	Horizontal
5	7311.000	39.01	-2.58	54.00	14.99	150	Horizontal
6	7311.000	50.14	-2.58	74.00	23.86	150	Horizontal

Final Data List

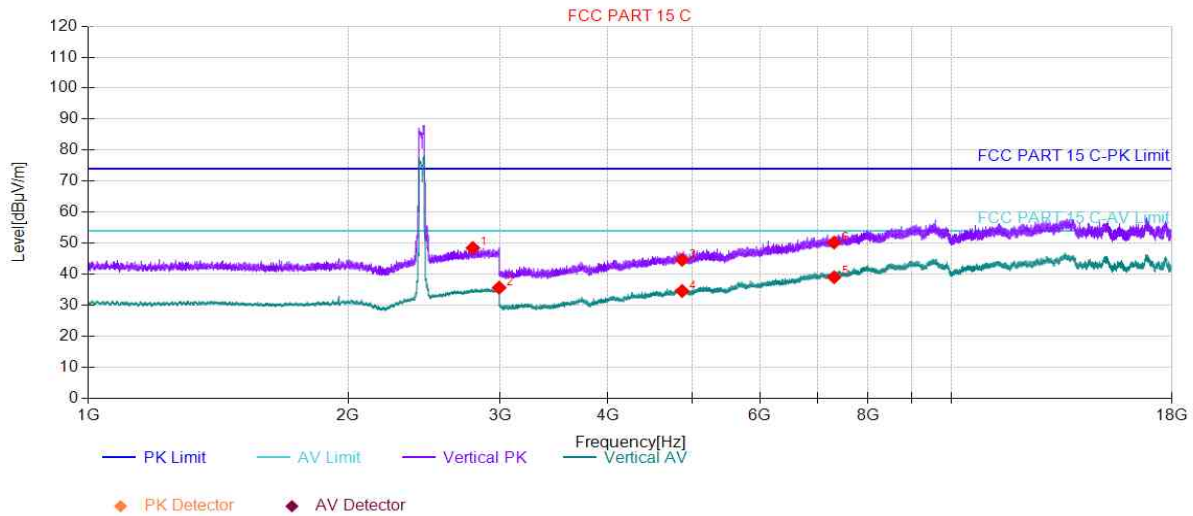


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4.9.3.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2789.579	48.45	6.62	74.00	25.55	150	Vertical
2	2991.999	35.64	7.37	54.00	18.36	150	Vertical
3	4874.000	44.61	-10.40	74.00	29.39	150	Vertical
4	4874.000	34.55	-10.40	54.00	19.45	150	Vertical
5	7311.000	39.01	-2.58	54.00	14.99	150	Vertical
6	7311.000	50.22	-2.58	74.00	23.78	150	Vertical

Final Data List

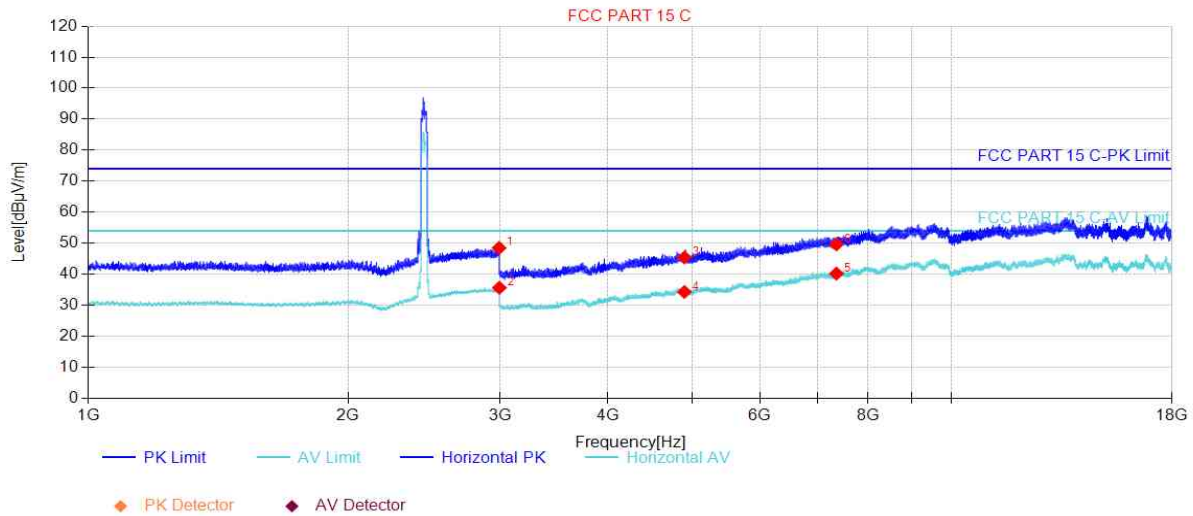


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4.9.3.23 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2991.399	48.46	7.37	74.00	25.54	150	Horizontal
2	2993.799	35.60	7.38	54.00	18.40	150	Horizontal
3	4904.000	45.38	-10.30	74.00	28.62	150	Horizontal
4	4904.000	34.25	-10.30	54.00	19.75	150	Horizontal
5	7356.000	40.18	-2.27	54.00	13.82	150	Horizontal
6	7356.000	49.61	-2.27	74.00	24.39	150	Horizontal

Final Data List

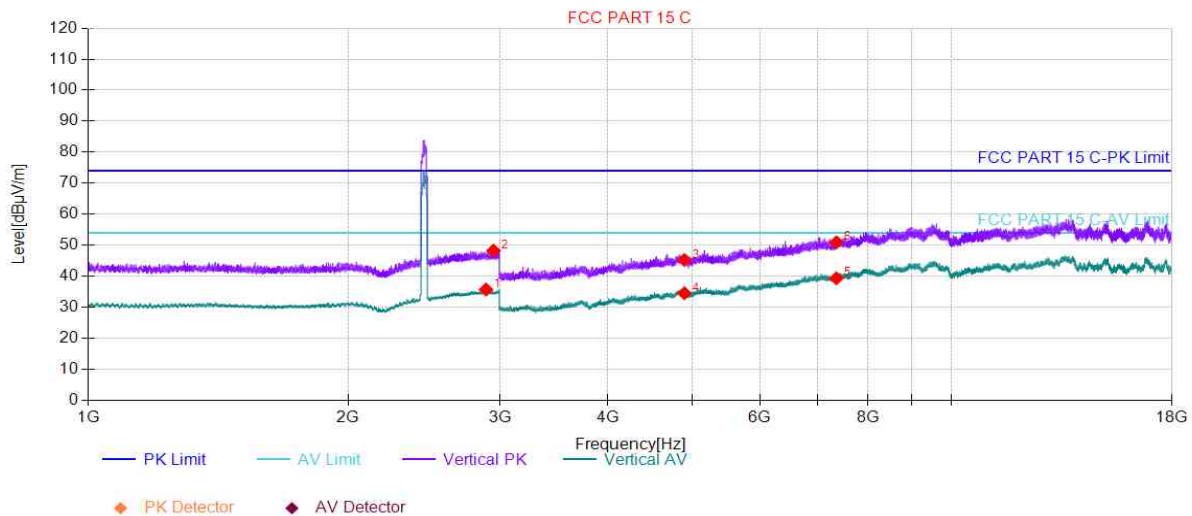


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4.9.3.24 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2888.788	35.68	6.93	54.00	18.32	150	Vertical
2	2947.194	48.22	7.17	74.00	25.78	150	Vertical
3	4904.000	45.22	-10.30	74.00	28.78	150	Vertical
4	4904.000	34.48	-10.30	54.00	19.52	150	Vertical
5	7356.000	39.30	-2.27	54.00	14.70	150	Vertical
6	7356.000	50.91	-2.27	74.00	23.09	150	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.

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:			

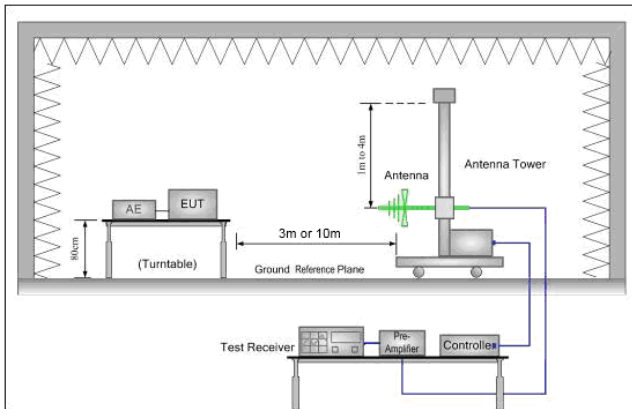


Figure 1. 30MHz to 1GHz

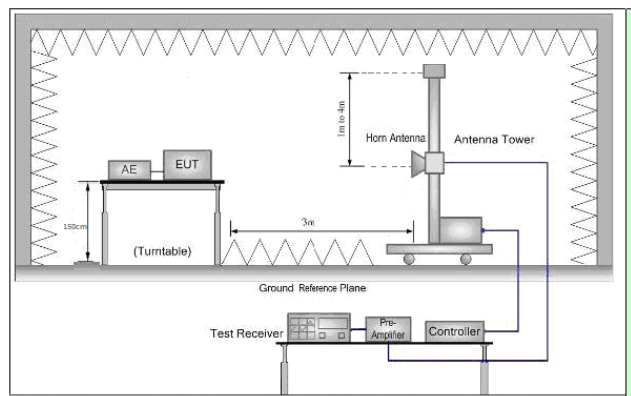


Figure 2. Above 1 GHz

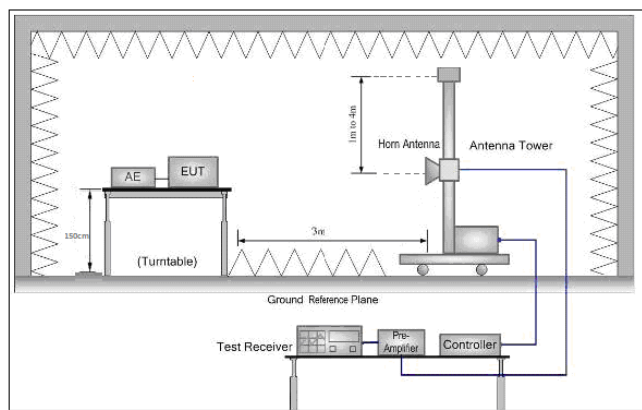


Figure 3. Above 1 GHz





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); 13.5Mbps of rate is the worst case of 802.11N(HT40); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



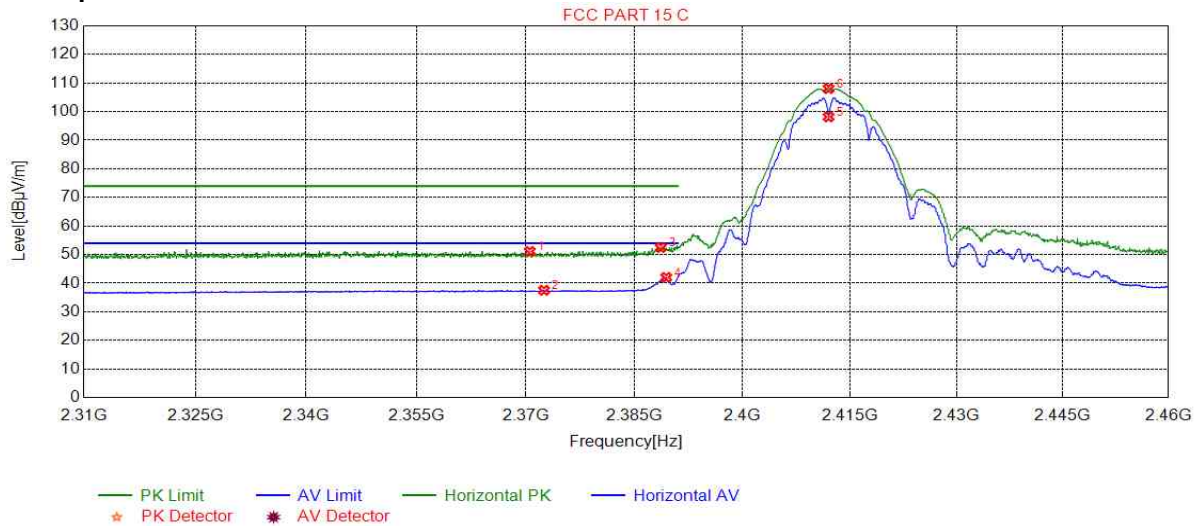
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4.10.1 Test Plots

4.10.1.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.55	51.12	7.79	74.00	22.88	150	232	Horizontal
2	2372.50	37.51	7.79	54.00	16.49	150	303	Horizontal
3	2388.63	52.49	7.77	74.00	21.51	150	330	Horizontal
4	2389.38	42.06	7.77	54.00	11.94	150	319	Horizontal
5	2412.00	98.17	7.81	0.00	-98.17	150	319	Horizontal
6	2412.00	108.06	7.81	0.00	-108.06	150	314	Horizontal

Final Data List



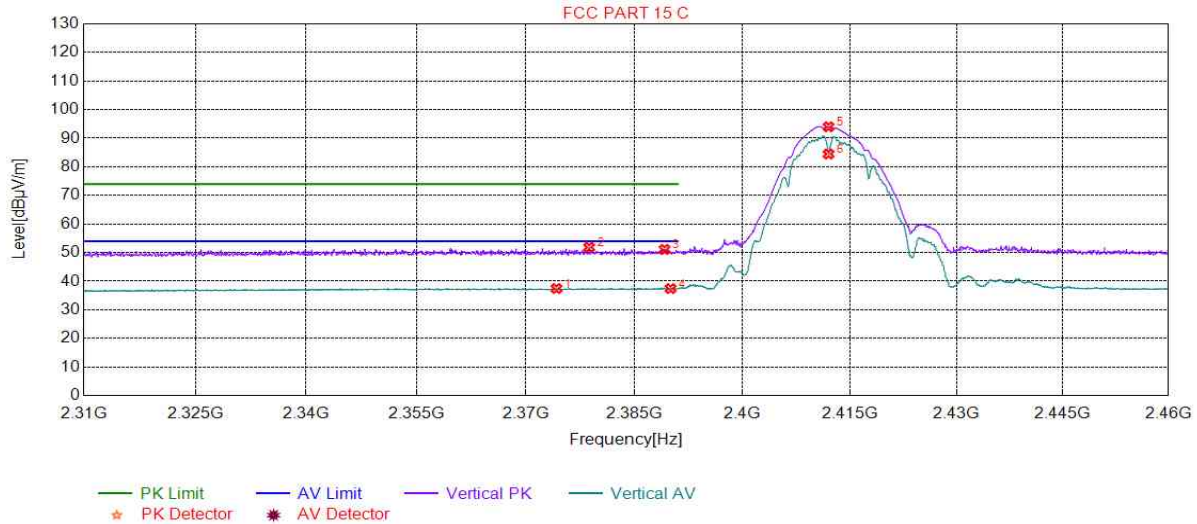
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4.10.1.2

802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.23	37.45	7.79	54.00	16.55	150	177	Vertical
2	2378.73	51.87	7.78	74.00	22.13	150	305	Vertical
3	2389.16	51.13	7.77	74.00	22.87	150	138	Vertical
4	2390.00	37.43	7.77	54.00	16.57	150	305	Vertical
5	2412.00	94.00	7.81	0.00	-94.00	150	204	Vertical
6	2412.00	84.48	7.81	0.00	-84.48	150	198	Vertical

Final Data List

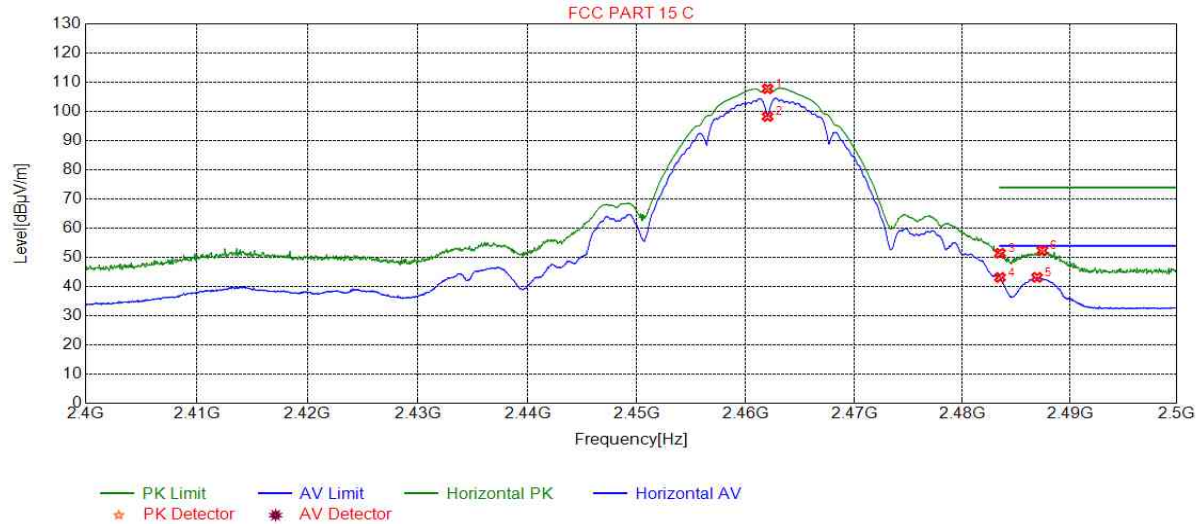


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4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	107.78	7.98	0.00	-107.78	150	254	Horizontal
2	2462.00	98.29	7.98	0.00	-98.29	150	254	Horizontal
3	2483.50	51.47	8.01	74.00	22.53	150	259	Horizontal
4	2483.50	43.17	8.01	54.00	10.83	150	254	Horizontal
5	2486.94	43.20	8.01	54.00	10.80	150	254	Horizontal
6	2487.44	52.35	8.01	74.00	21.65	150	248	Horizontal

Final Data List

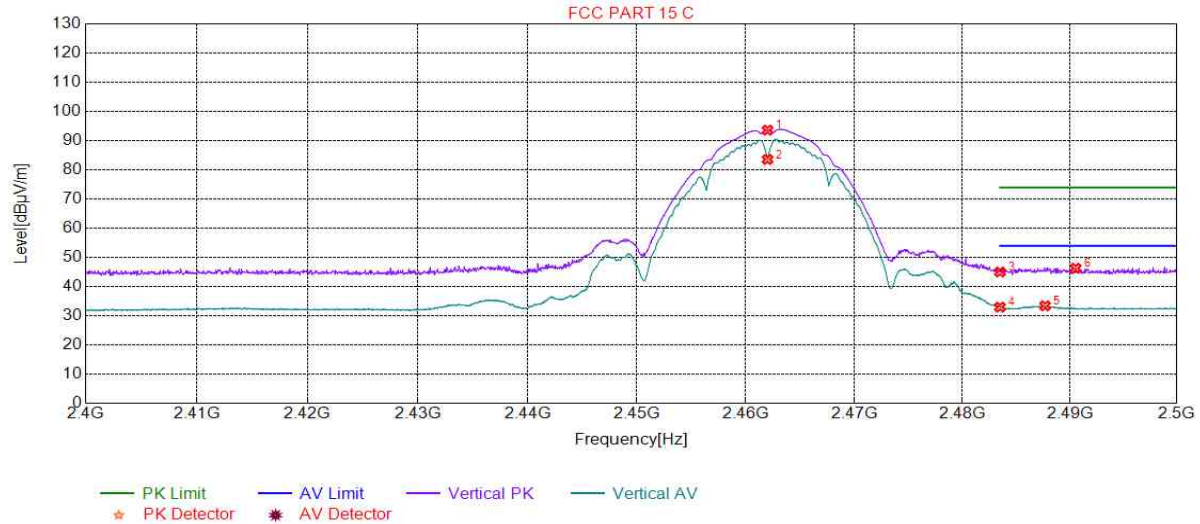


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4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	93.61	7.98	0.00	-93.61	150	35	Vertical
2	2462.00	83.57	7.98	0.00	-83.57	150	35	Vertical
3	2483.50	45.04	8.01	74.00	28.96	150	57	Vertical
4	2483.50	33.01	8.01	54.00	20.99	150	193	Vertical
5	2487.69	33.46	8.02	54.00	20.54	150	360	Vertical
6	2490.54	46.34	8.02	74.00	27.66	150	242	Vertical

Final Data List

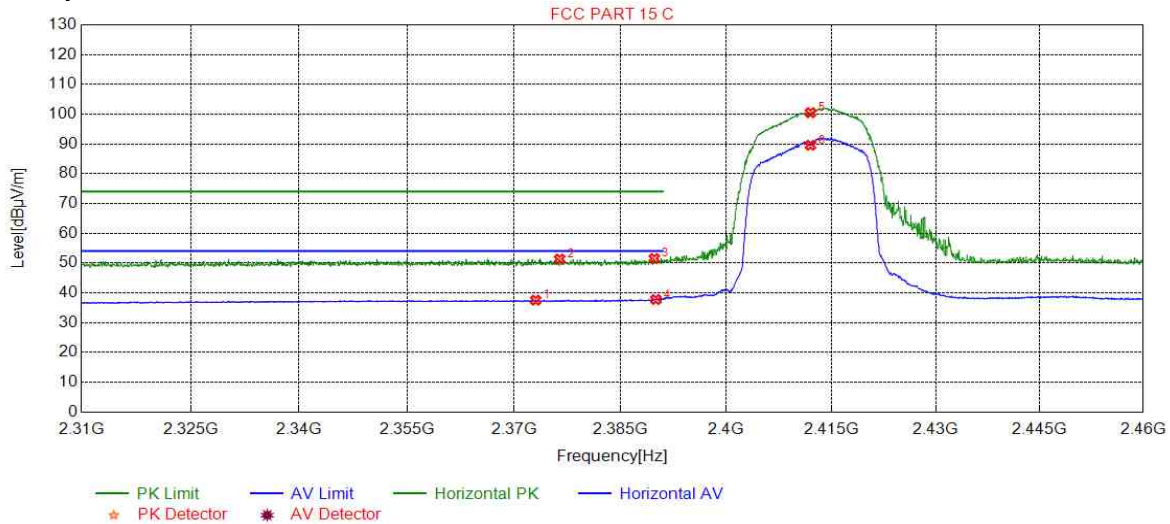


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4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.03	37.52	7.79	54.00	16.48	150	167	Horizontal
2	2376.40	51.35	7.78	74.00	22.65	150	346	Horizontal
3	2389.76	51.51	7.77	74.00	22.49	150	151	Horizontal
4	2390.00	37.73	7.77	54.00	16.27	150	320	Horizontal
5	2412.00	100.47	7.81	0.00	-100.47	150	314	Horizontal
6	2412.00	89.53	7.81	0.00	-89.53	150	314	Horizontal

Final Data List



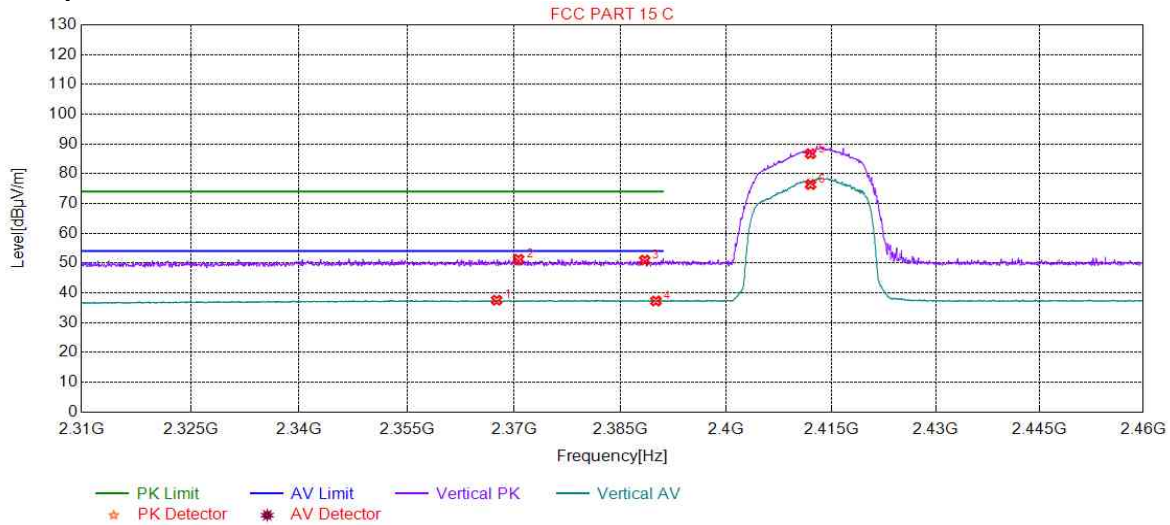
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4.10.1.6

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]	Angle [°]	Polarity
1	2367.55	37.49	7.79	54.00	16.51	150	29	Vertical
2	2370.63	51.23	7.79	74.00	22.77	150	210	Vertical
3	2388.41	50.96	7.77	74.00	23.04	150	100	Vertical
4	2390.00	37.24	7.77	54.00	16.76	150	116	Vertical
5	2412.00	86.68	7.81	0.00	-86.68	150	225	Vertical
6	2412.00	76.36	7.81	0.00	-76.36	150	215	Vertical

Final Data List

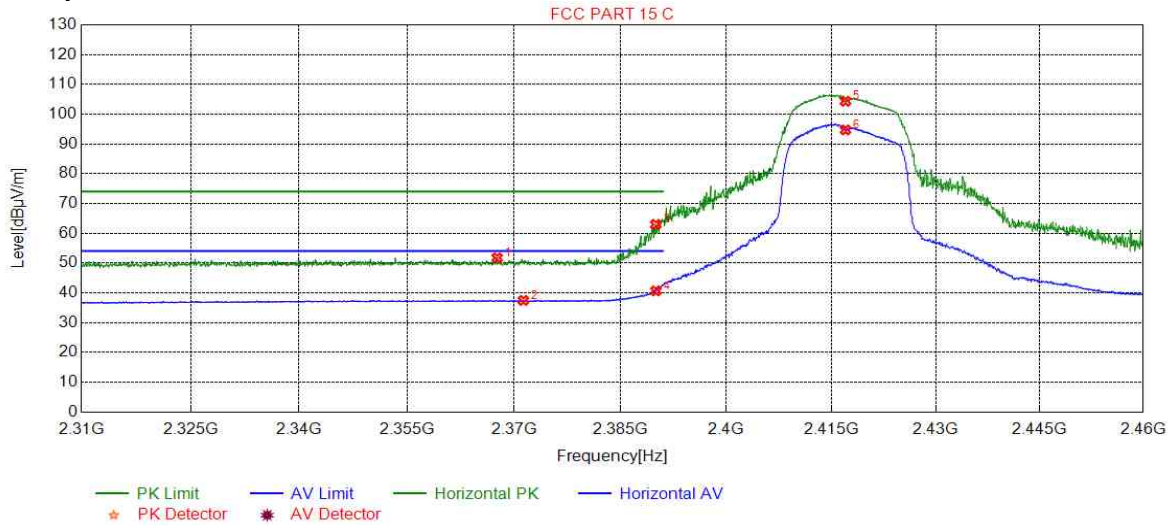


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4.10.1.7 802.11G_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.62	51.73	7.79	74.00	22.27	150	68	Horizontal
2	2371.30	37.44	7.79	54.00	16.56	150	320	Horizontal
3	2389.99	62.95	7.77	74.00	11.05	150	183	Horizontal
4	2390.00	40.64	7.77	54.00	13.36	150	270	Horizontal
5	2417.00	104.34	7.83	0.00	-104.34	150	308	Horizontal
6	2417.00	94.69	7.83	0.00	-94.69	150	314	Horizontal

Final Data List



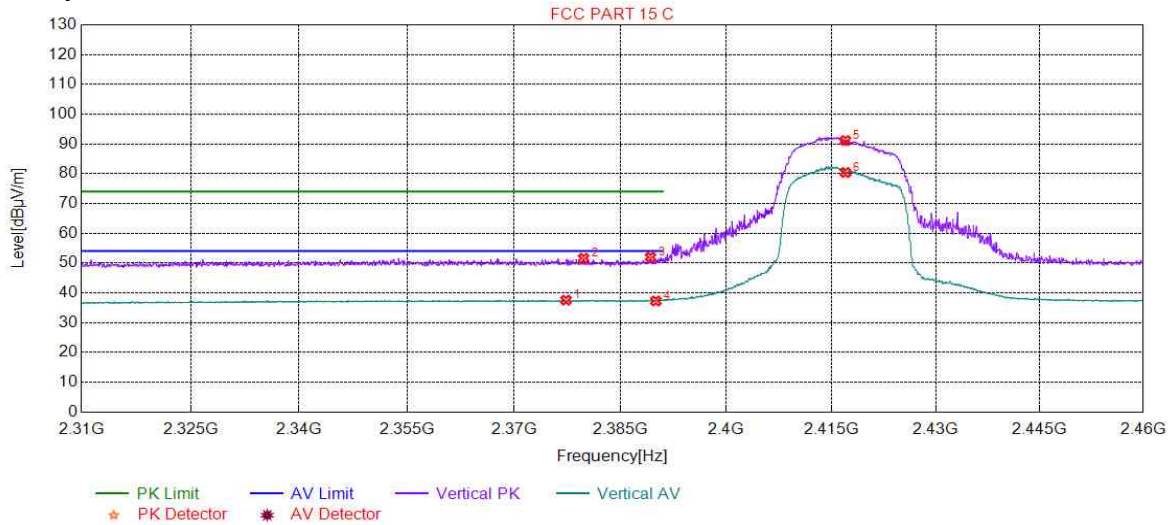
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4.10.1.8

802.11G_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.30	37.54	7.78	54.00	16.46	150	236	Vertical
2	2379.78	51.60	7.78	74.00	22.40	150	159	Vertical
3	2389.23	51.96	7.77	74.00	22.04	150	252	Vertical
4	2390.00	37.23	7.77	54.00	16.77	150	301	Vertical
5	2417.00	91.15	7.83	0.00	-91.15	150	14	Vertical
6	2417.00	80.37	7.83	0.00	-80.37	150	14	Vertical

Final Data List

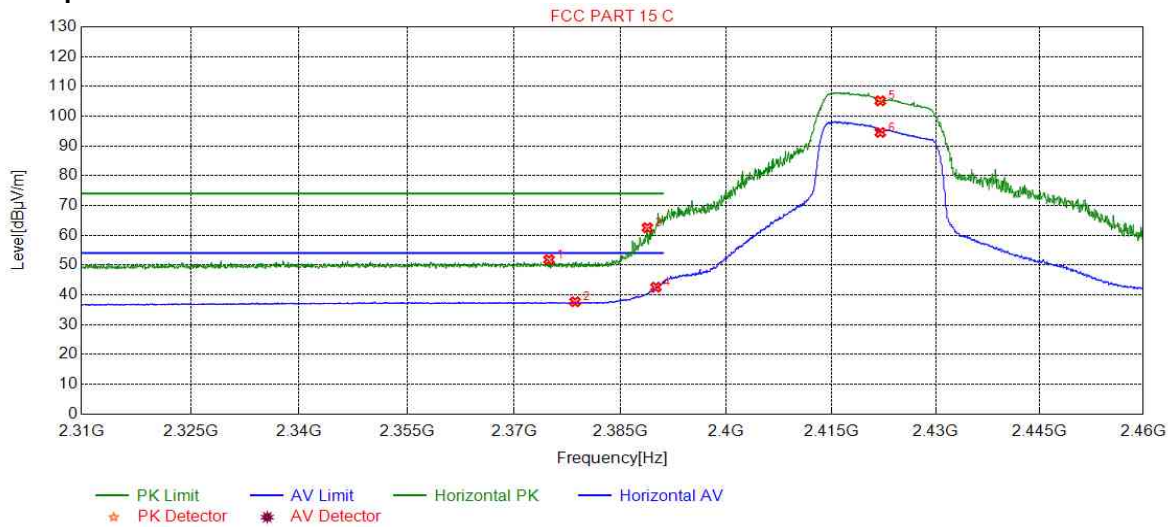


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4.10.1.9 802.11G_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.90	51.76	7.79	74.00	22.24	150	198	Horizontal
2	2378.58	37.66	7.78	54.00	16.34	150	297	Horizontal
3	2388.78	62.53	7.77	74.00	11.47	150	302	Horizontal
4	2390.00	42.54	7.77	54.00	11.46	150	308	Horizontal
5	2422.00	105.11	7.85	0.00	-105.11	150	314	Horizontal
6	2422.00	94.51	7.85	0.00	-94.51	150	302	Horizontal

Final Data List

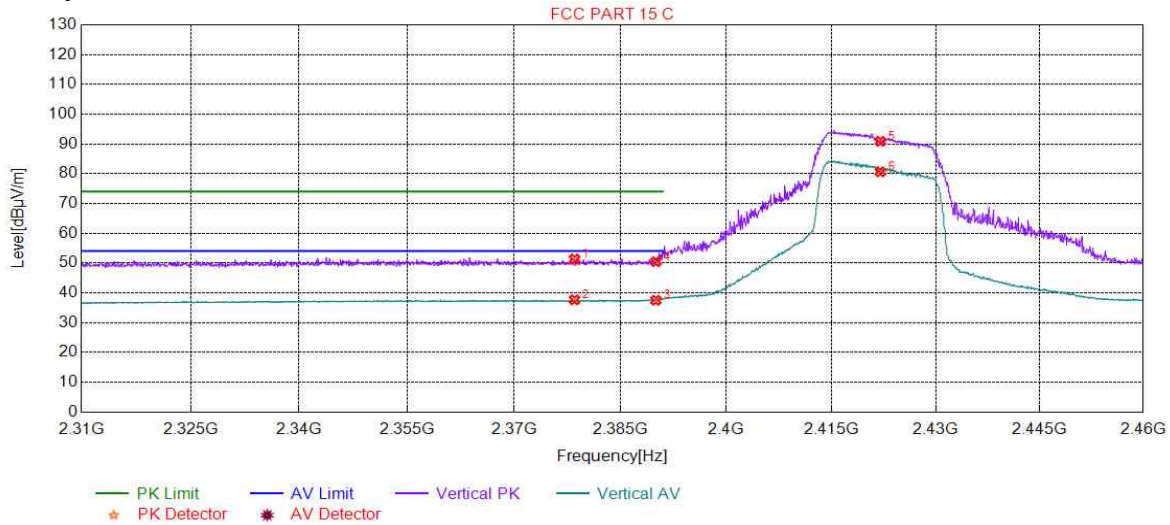


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4.10.1.10 802.11G_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.50	51.33	7.78	74.00	22.67	150	90	Vertical
2	2378.50	37.65	7.78	54.00	16.35	150	144	Vertical
3	2390.00	37.49	7.77	54.00	16.51	150	193	Vertical
4	2390.00	50.43	7.77	74.00	23.57	150	182	Vertical
5	2422.00	90.85	7.85	0.00	-90.85	150	166	Vertical
6	2422.00	80.63	7.85	0.00	-80.63	150	177	Vertical

Final Data List

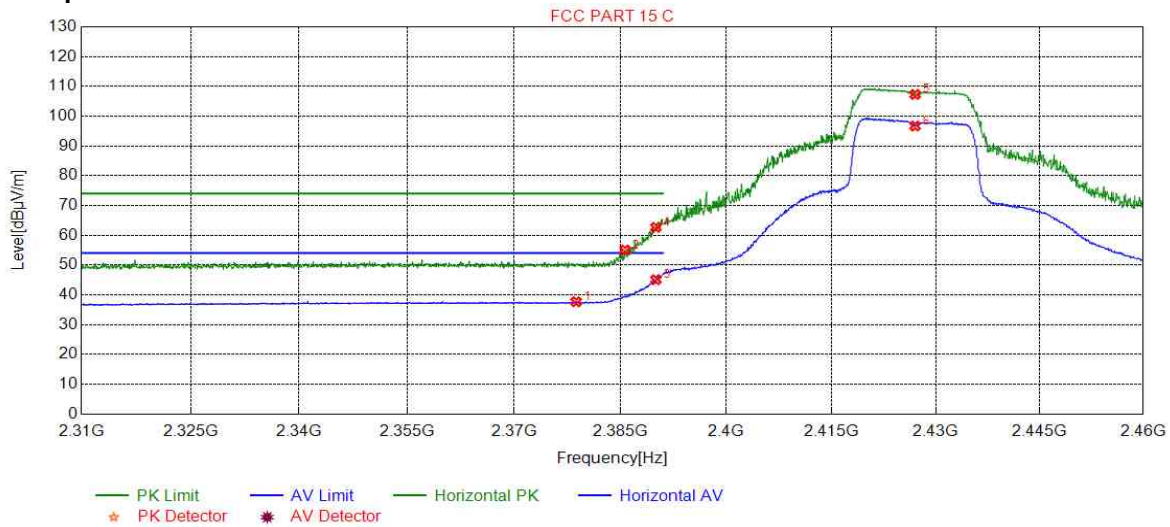


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4.10.1.11 802.11G_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.73	37.66	7.78	54.00	16.34	150	308	Horizontal
2	2385.63	55.02	7.77	74.00	18.98	150	314	Horizontal
3	2390.00	45.07	7.77	54.00	8.93	150	303	Horizontal
4	2390.00	62.65	7.77	74.00	11.35	150	308	Horizontal
5	2427.00	107.29	7.87	0.00	-107.29	150	194	Horizontal
6	2427.00	96.66	7.87	0.00	-96.66	150	254	Horizontal

Final Data List

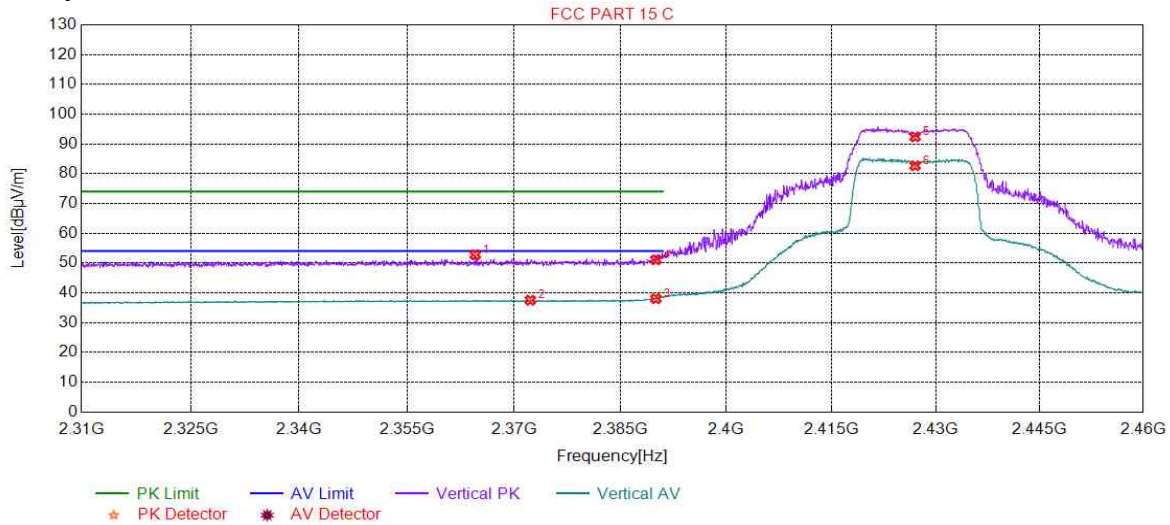


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4.10.1.12 802.11G_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2364.55	52.78	7.80	74.00	21.22	150	194	Vertical
2	2372.28	37.50	7.79	54.00	16.50	150	184	Vertical
3	2390.00	38.02	7.77	54.00	15.98	150	189	Vertical
4	2390.00	51.08	7.77	74.00	22.92	150	19	Vertical
5	2427.00	92.38	7.87	0.00	-92.38	150	179	Vertical
6	2427.00	82.67	7.87	0.00	-82.67	150	179	Vertical

Final Data List

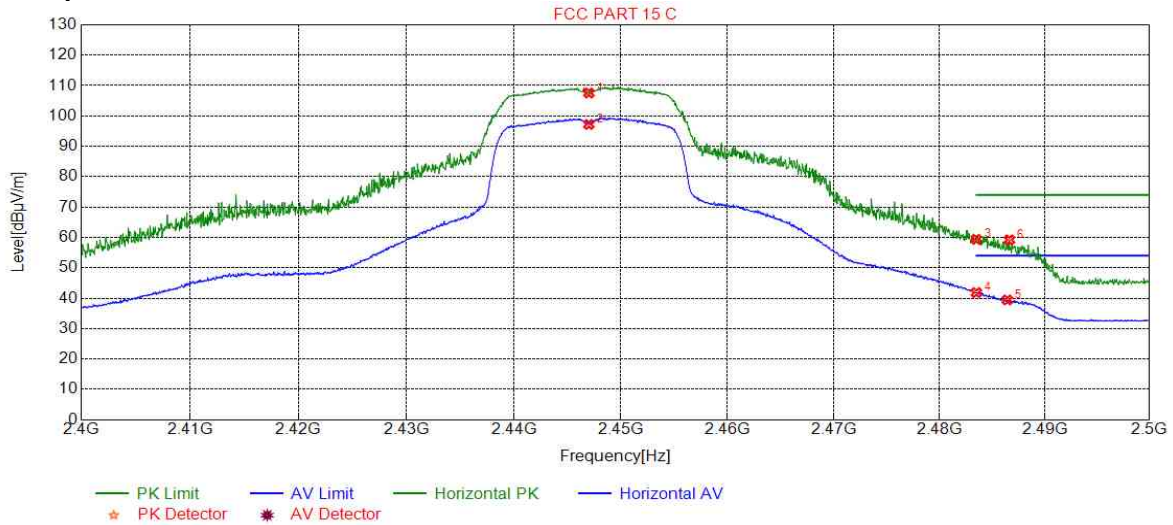


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4.10.1.13 802.11G_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	107.55	7.96	0.00	-107.55	150	297	Horizontal
2	2447.00	97.22	7.96	0.00	-97.22	150	253	Horizontal
3	2483.50	59.41	8.01	74.00	14.59	150	291	Horizontal
4	2483.50	41.85	8.01	54.00	12.15	150	247	Horizontal
5	2486.44	39.46	8.01	54.00	14.54	150	253	Horizontal
6	2486.64	59.22	8.01	74.00	14.78	150	308	Horizontal

Final Data List

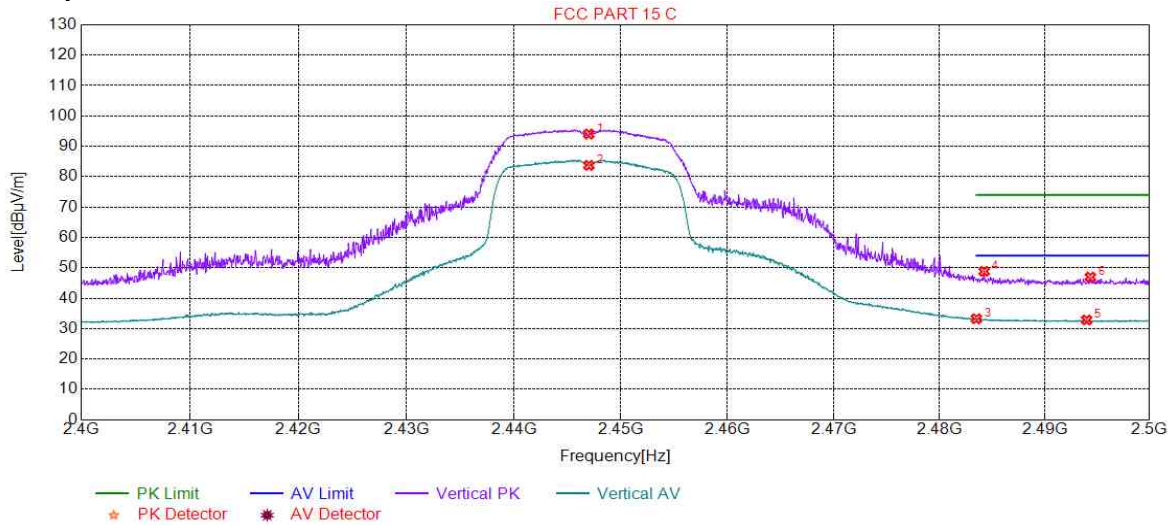


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4.10.1.14 802.11G_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	94.04	7.96	0.00	-94.04	150	209	Vertical
2	2447.00	83.74	7.96	0.00	-83.74	150	214	Vertical
3	2483.50	33.25	8.01	54.00	20.75	150	214	Vertical
4	2484.24	48.84	8.01	74.00	25.16	150	14	Vertical
5	2493.99	32.85	8.02	54.00	21.15	150	198	Vertical
6	2494.34	46.97	8.02	74.00	27.03	150	30	Vertical

Final Data List

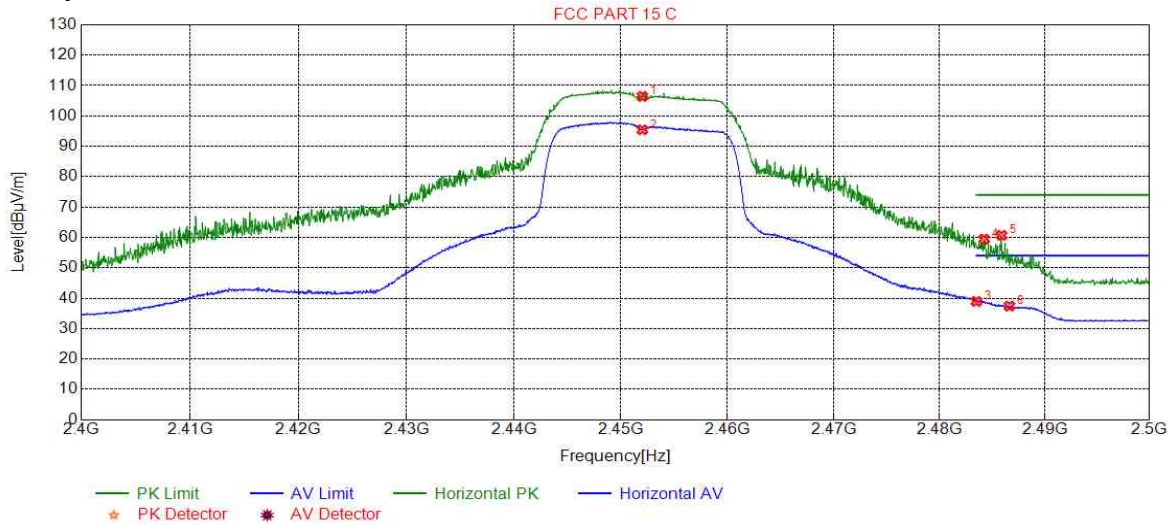


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4.10.1.15 802.11G_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	106.43	7.97	0.00	-106.43	150	298	Horizontal
2	2452.00	95.44	7.97	0.00	-95.44	150	255	Horizontal
3	2483.50	38.96	8.01	54.00	15.04	150	255	Horizontal
4	2484.24	59.46	8.01	74.00	14.54	150	298	Horizontal
5	2485.89	60.71	8.01	74.00	13.29	150	244	Horizontal
6	2486.64	37.41	8.01	54.00	16.59	150	260	Horizontal

Final Data List



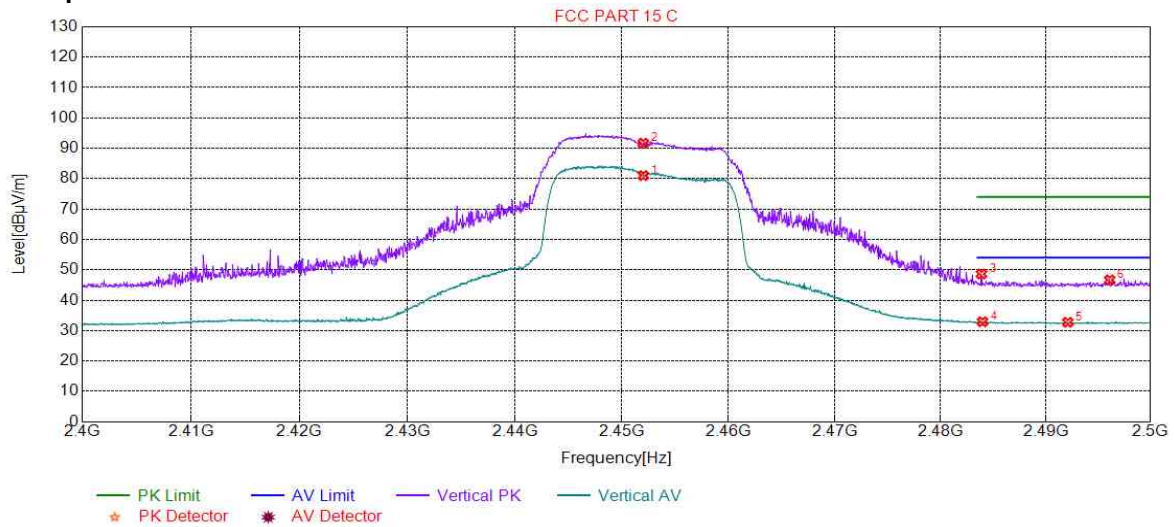
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4.10.1.16

802.11G_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	81.02	7.97	0.00	-81.02	150	356	Vertical
2	2452.00	91.69	7.97	0.00	-91.69	150	344	Vertical
3	2483.89	48.63	8.01	74.00	25.37	150	19	Vertical
4	2483.99	32.93	8.01	54.00	21.07	150	14	Vertical
5	2492.09	32.75	8.02	54.00	21.25	150	334	Vertical
6	2496.09	46.71	8.03	74.00	27.29	150	133	Vertical

Final Data List

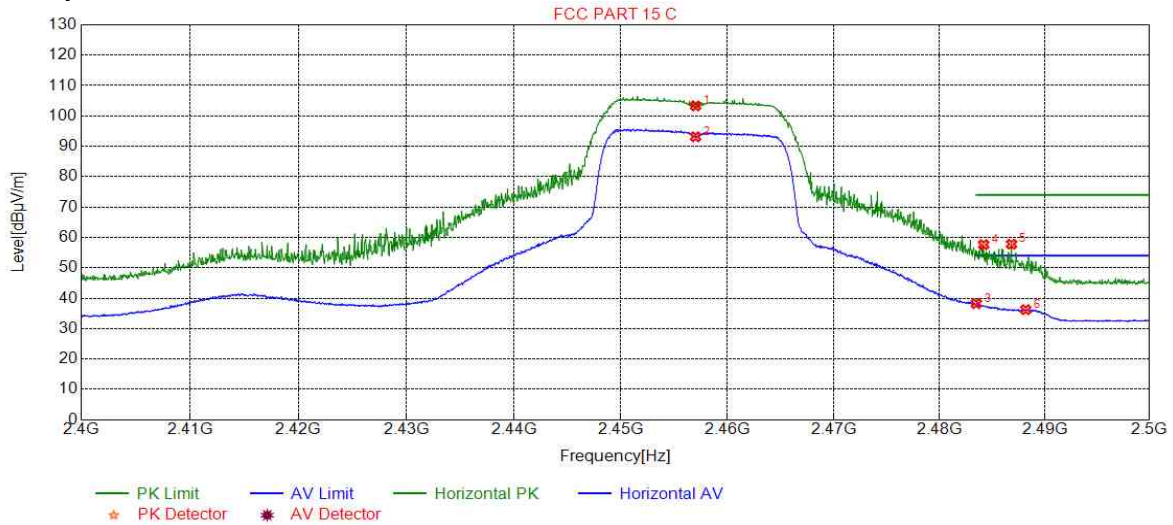


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4.10.1.17 802.11G_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	103.31	7.98	0.00	-103.31	150	308	Horizontal
2	2457.00	93.13	7.98	0.00	-93.13	150	248	Horizontal
3	2483.50	38.24	8.01	54.00	15.76	150	296	Horizontal
4	2484.19	57.63	8.01	74.00	16.37	150	237	Horizontal
5	2486.84	57.81	8.01	74.00	16.19	150	291	Horizontal
6	2488.19	36.24	8.02	54.00	17.76	150	258	Horizontal

Final Data List

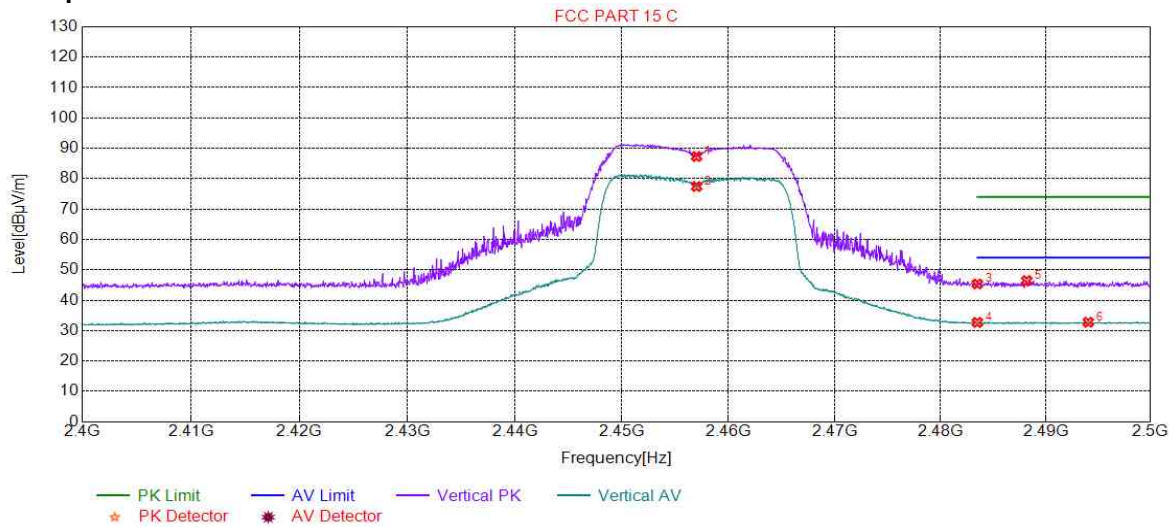


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4.10.1.18 802.11G_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	87.32	7.98	0.00	-87.32	150	342	Vertical
2	2457.00	77.44	7.98	0.00	-77.44	150	169	Vertical
3	2483.50	45.37	8.01	74.00	28.63	150	153	Vertical
4	2483.50	32.70	8.01	54.00	21.30	150	169	Vertical
5	2488.19	46.47	8.02	74.00	27.53	150	186	Vertical
6	2494.04	32.76	8.02	54.00	21.24	150	310	Vertical

Final Data List

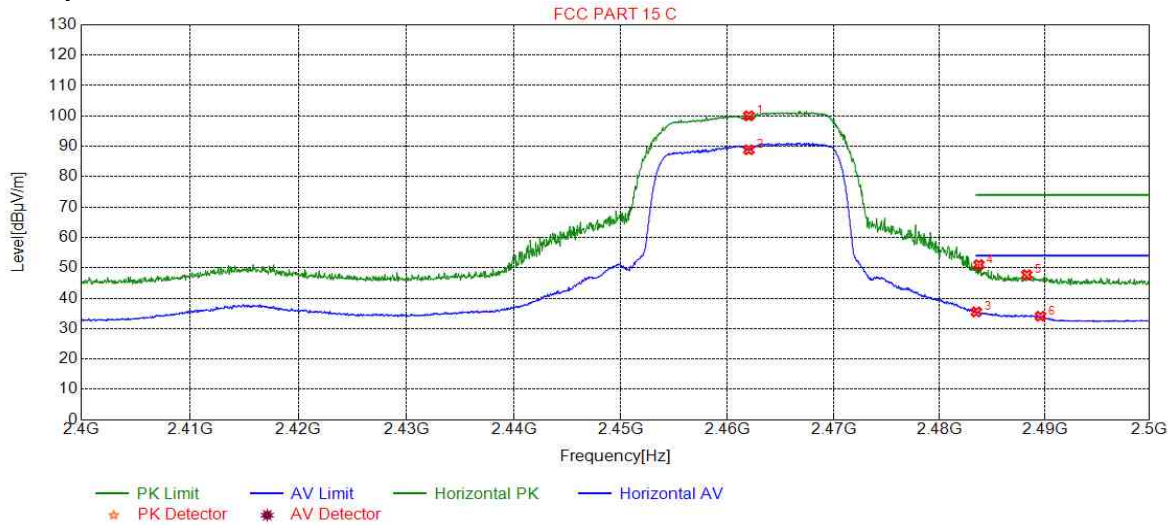


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4.10.1.19 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	100.04	7.98	0.00	-100.04	150	245	Horizontal
2	2462.00	88.86	7.98	0.00	-88.86	150	310	Horizontal
3	2483.50	35.50	8.01	54.00	18.50	150	310	Horizontal
4	2483.74	51.03	8.01	74.00	22.97	150	299	Horizontal
5	2488.29	47.74	8.02	74.00	26.26	150	207	Horizontal
6	2489.59	34.06	8.02	54.00	19.94	150	256	Horizontal

Final Data List

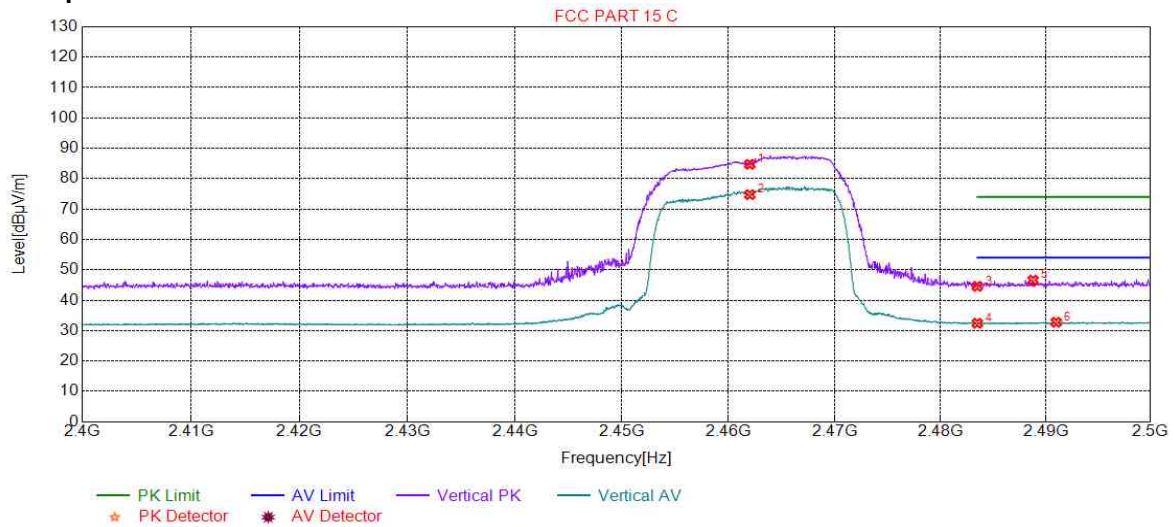


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4.10.1.20 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	84.73	7.98	0.00	-84.73	150	24	Vertical
2	2462.00	74.76	7.98	0.00	-74.76	150	19	Vertical
3	2483.50	44.59	8.01	74.00	29.41	150	14	Vertical
4	2483.50	32.44	8.01	54.00	21.56	150	112	Vertical
5	2488.79	46.60	8.02	74.00	27.40	150	173	Vertical
6	2490.99	32.75	8.02	54.00	21.25	150	173	Vertical

Final Data List

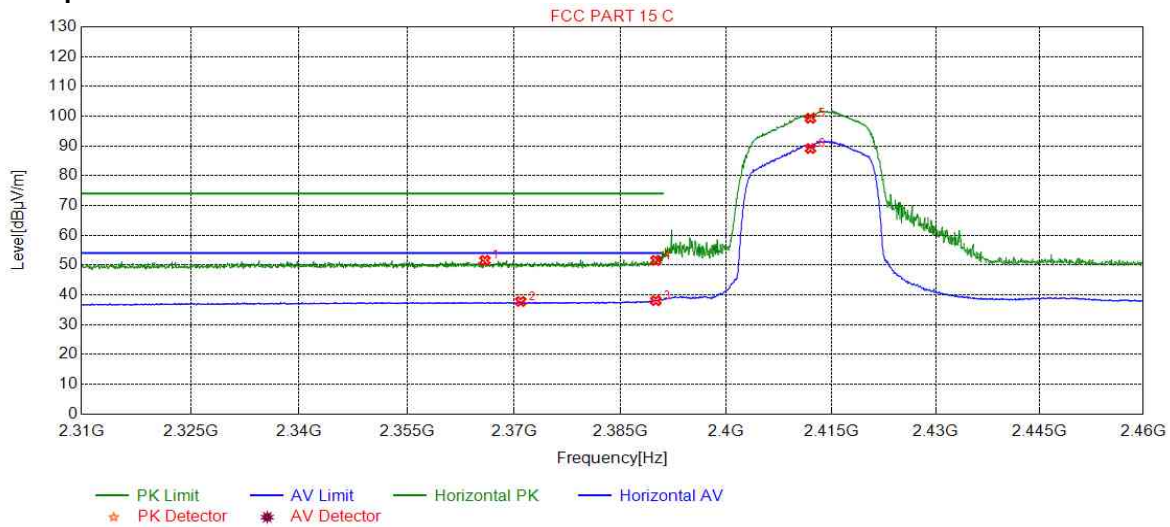


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4.10.1.21 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.90	51.54	7.79	74.00	22.46	150	253	Horizontal
2	2370.93	37.76	7.79	54.00	16.24	150	161	Horizontal
3	2390.00	38.01	7.77	54.00	15.99	150	253	Horizontal
4	2390.00	51.56	7.77	74.00	22.44	150	144	Horizontal
5	2412.00	99.26	7.81	0.00	-99.26	150	308	Horizontal
6	2412.00	89.13	7.81	0.00	-89.13	150	303	Horizontal

Final Data List

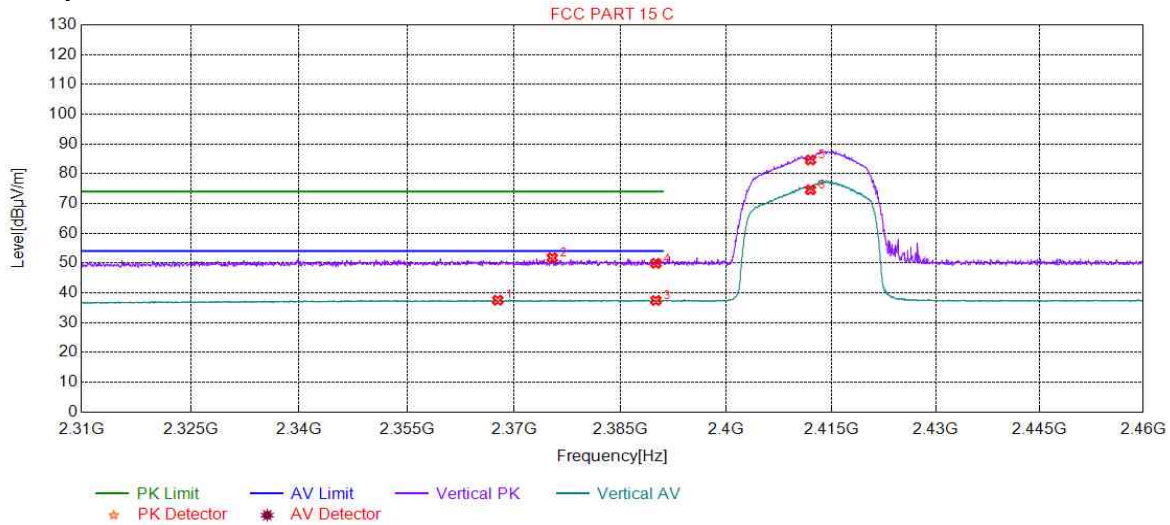


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4.10.1.22 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.70	37.50	7.79	54.00	16.50	150	45	Vertical
2	2375.35	51.74	7.78	74.00	22.26	150	78	Vertical
3	2390.00	37.42	7.77	54.00	16.58	150	51	Vertical
4	2390.00	49.87	7.77	74.00	24.13	150	14	Vertical
5	2412.00	84.60	7.81	0.00	-84.60	150	204	Vertical
6	2412.00	74.57	7.81	0.00	-74.57	150	14	Vertical

Final Data List

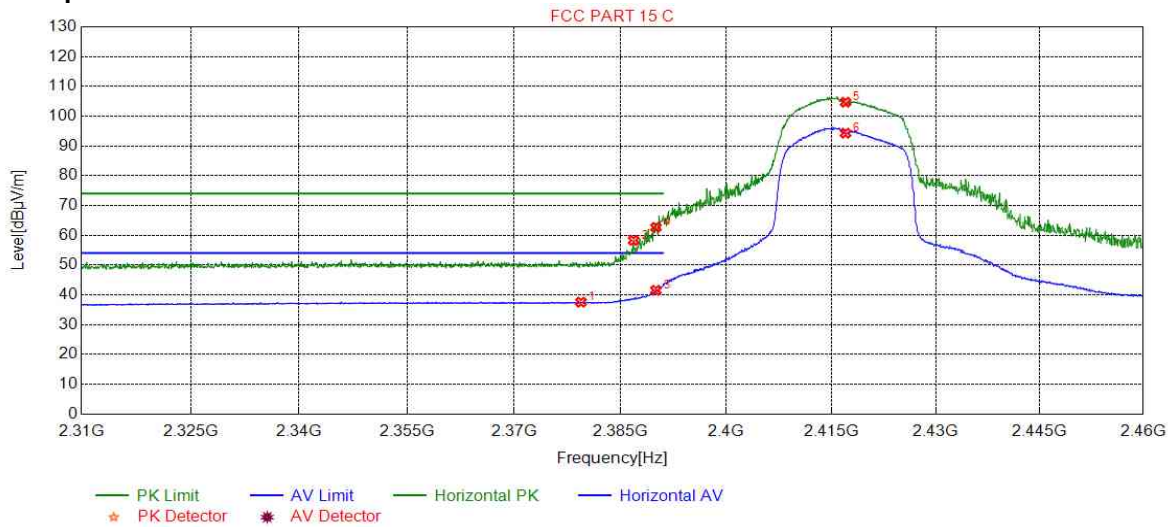


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4.10.1.23 802.11N20_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.40	37.52	7.78	54.00	16.48	150	336	Horizontal
2	2386.83	58.26	7.77	74.00	15.74	150	194	Horizontal
3	2390.00	41.50	7.77	54.00	12.50	150	264	Horizontal
4	2390.00	62.65	7.77	74.00	11.35	150	39	Horizontal
5	2417.00	104.68	7.83	0.00	-104.68	150	259	Horizontal
6	2417.00	94.27	7.83	0.00	-94.27	150	303	Horizontal

Final Data List

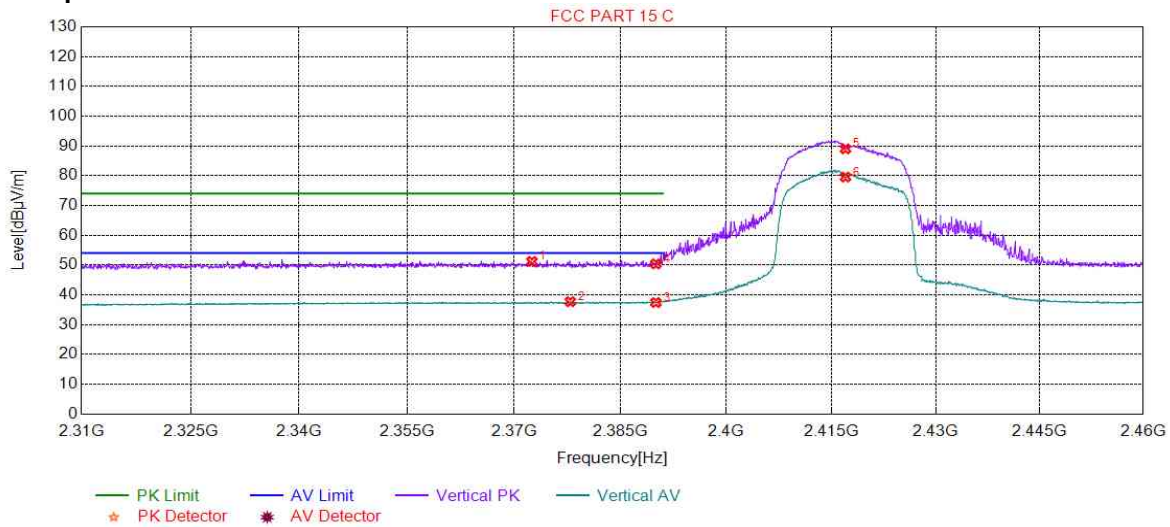


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4.10.1.24 802.11N20_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.50	51.19	7.79	74.00	22.81	150	287	Vertical
2	2377.90	37.69	7.78	54.00	16.31	150	217	Vertical
3	2390.00	37.40	7.77	54.00	16.60	150	14	Vertical
4	2390.00	50.36	7.77	74.00	23.64	150	179	Vertical
5	2417.00	89.01	7.83	0.00	-89.01	150	14	Vertical
6	2417.00	79.53	7.83	0.00	-79.53	150	14	Vertical

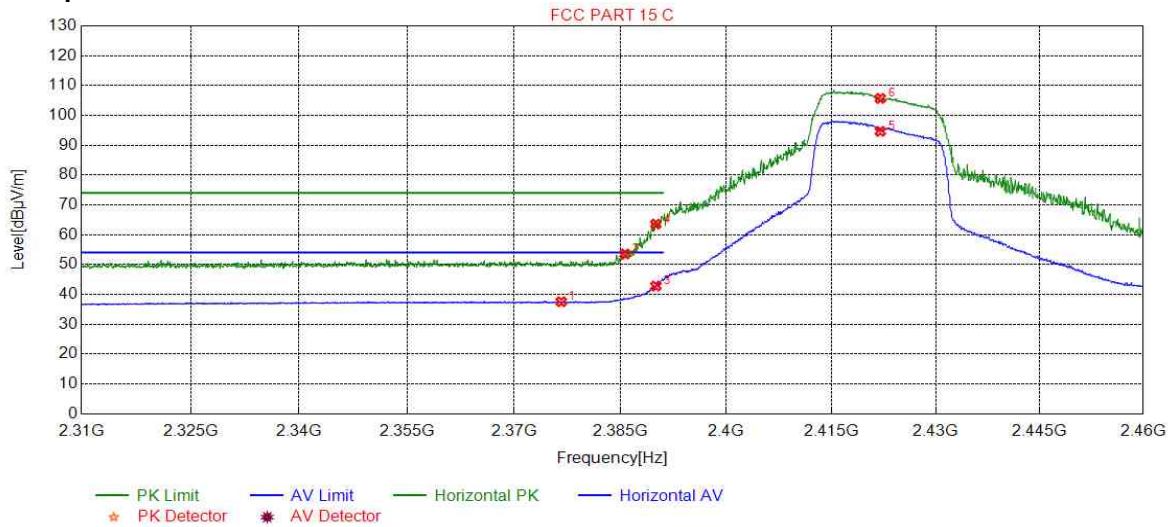
Final Data List



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4.10.1.25 802.11N20_Channel 3
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.63	37.52	7.78	54.00	16.48	150	91	Horizontal
2	2385.63	53.52	7.77	74.00	20.48	150	210	Horizontal
3	2390.00	42.79	7.77	54.00	11.21	150	320	Horizontal
4	2390.00	63.55	7.77	74.00	10.45	150	314	Horizontal
5	2422.00	94.63	7.85	0.00	-94.63	150	260	Horizontal
6	2422.00	105.66	7.85	0.00	-105.66	150	260	Horizontal

Final Data List



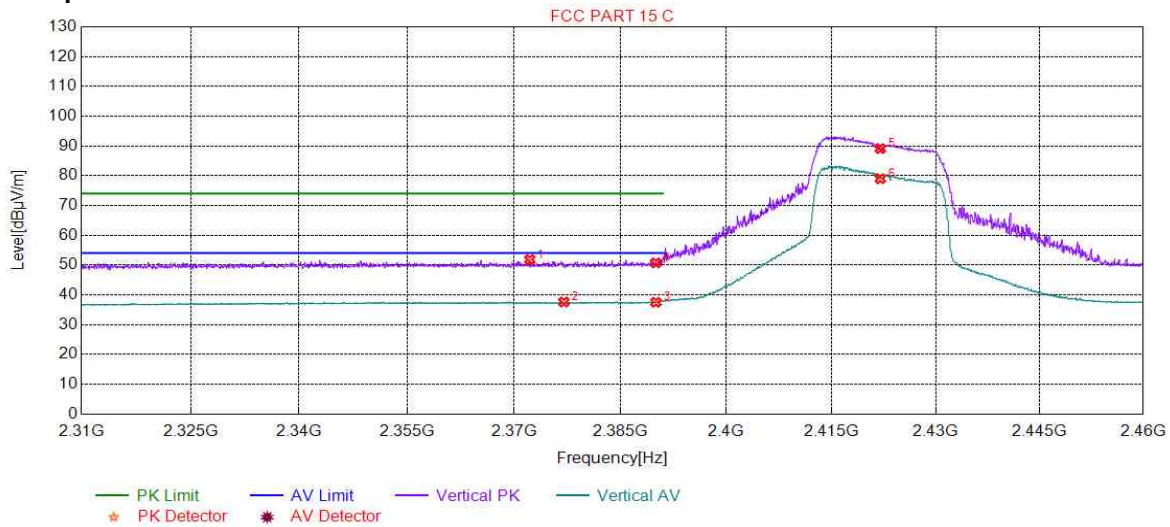
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4.10.1.26

802.11N20_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.20	51.80	7.79	74.00	22.20	150	30	Vertical
2	2377.00	37.59	7.78	54.00	16.41	150	68	Vertical
3	2390.00	37.49	7.77	54.00	16.51	150	230	Vertical
4	2390.00	50.71	7.77	74.00	23.29	150	14	Vertical
5	2422.00	89.11	7.85	0.00	-89.11	150	176	Vertical
6	2422.00	78.97	7.85	0.00	-78.97	150	176	Vertical

Final Data List

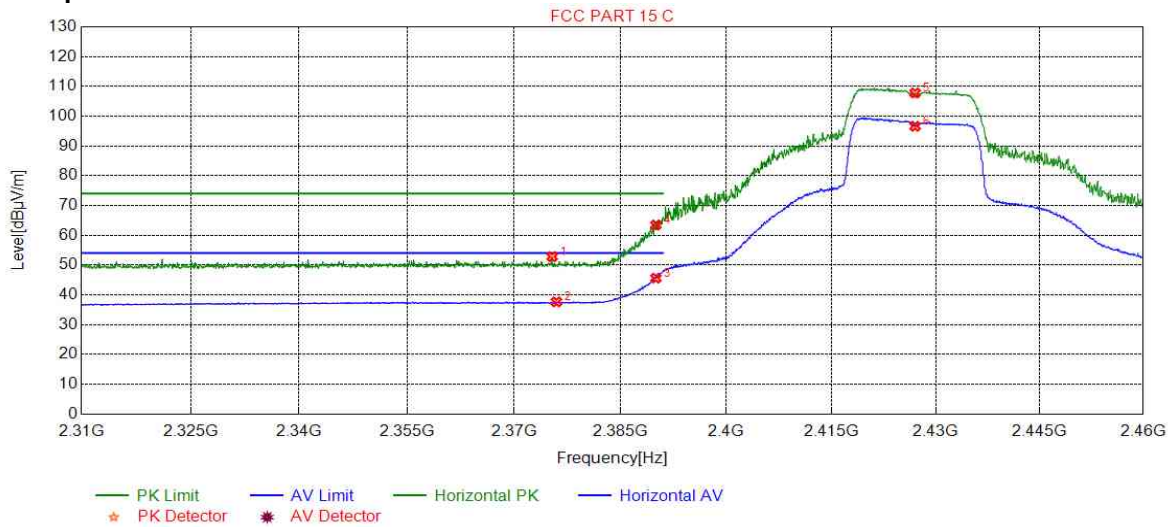


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4.10.1.27 802.11N20_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.35	52.80	7.78	74.00	21.20	150	196	Horizontal
2	2375.95	37.62	7.78	54.00	16.38	150	152	Horizontal
3	2390.00	45.59	7.77	54.00	8.41	150	308	Horizontal
4	2390.00	63.42	7.77	74.00	10.58	150	302	Horizontal
5	2427.00	107.76	7.87	0.00	-107.76	150	249	Horizontal
6	2427.00	96.59	7.87	0.00	-96.59	150	254	Horizontal

Final Data List

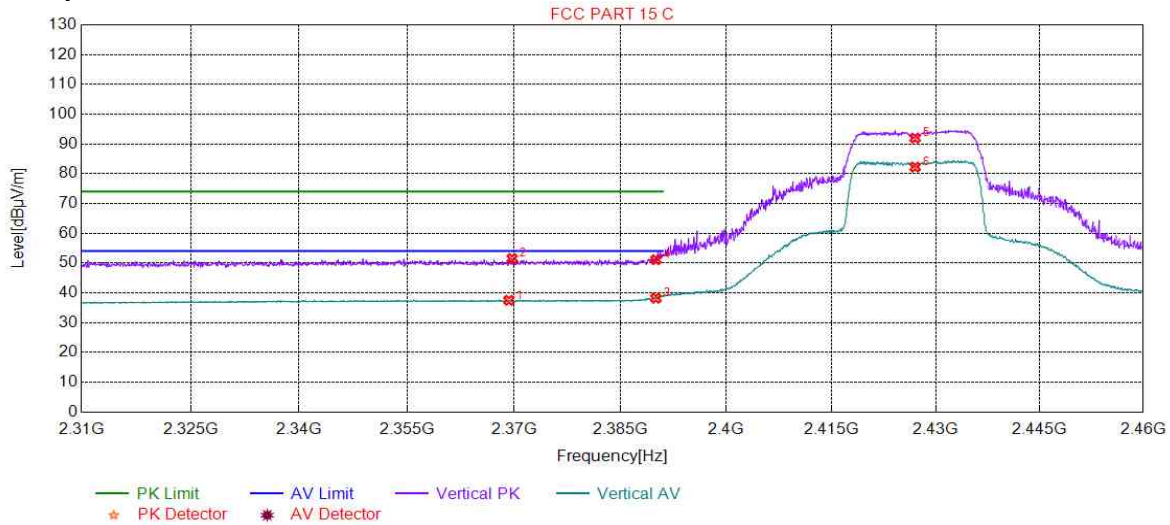


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4.10.1.28 802.11N20_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.27	37.47	7.79	54.00	16.53	150	294	Vertical
2	2369.72	51.51	7.79	74.00	22.49	150	14	Vertical
3	2390.00	38.17	7.77	54.00	15.83	150	208	Vertical
4	2390.00	51.10	7.77	74.00	22.90	150	41	Vertical
5	2427.00	91.97	7.87	0.00	-91.97	150	180	Vertical
6	2427.00	82.22	7.87	0.00	-82.22	150	175	Vertical

Final Data List

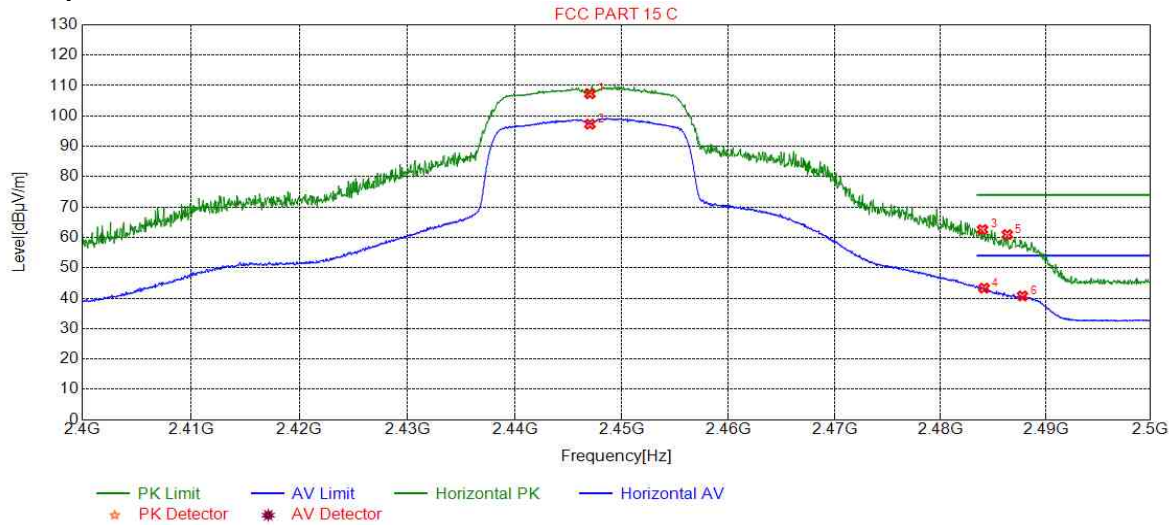


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4.10.1.29 802.11N20_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	107.32	7.96	0.00	-107.32	150	254	Horizontal
2	2447.00	97.28	7.96	0.00	-97.28	150	254	Horizontal
3	2483.99	62.59	8.01	74.00	11.41	150	140	Horizontal
4	2484.14	43.33	8.01	54.00	10.67	150	248	Horizontal
5	2486.34	60.95	8.01	74.00	13.05	150	314	Horizontal
6	2487.79	40.76	8.02	54.00	13.24	150	248	Horizontal

Final Data List

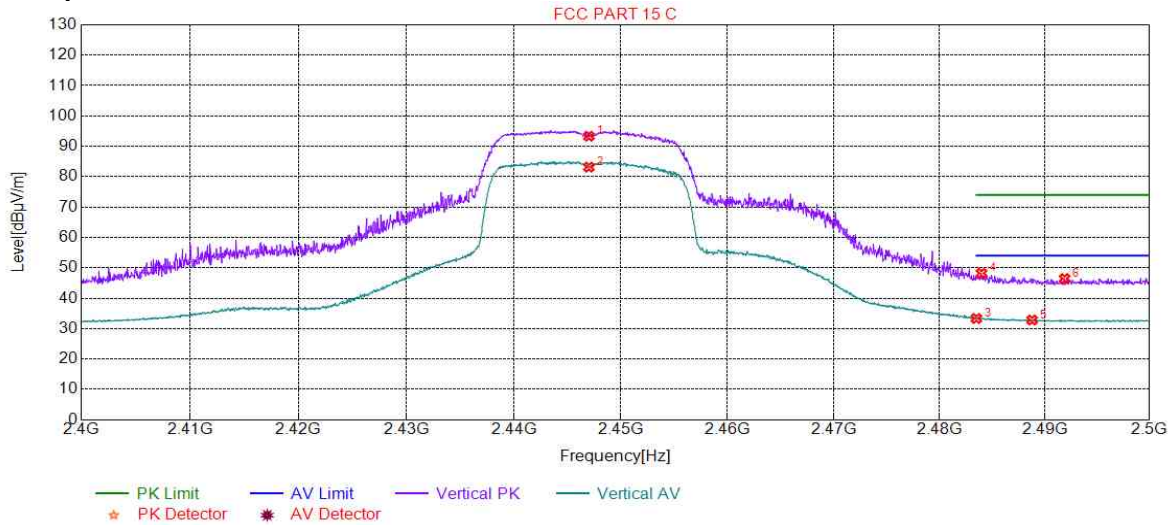


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4.10.1.30 802.11N20_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	93.33	7.96	0.00	-93.33	150	210	Vertical
2	2447.00	83.16	7.96	0.00	-83.16	150	215	Vertical
3	2483.50	33.34	8.01	54.00	20.66	150	14	Vertical
4	2483.99	48.22	8.01	74.00	25.78	150	171	Vertical
5	2488.79	32.83	8.02	54.00	21.17	150	360	Vertical
6	2491.89	46.46	8.02	74.00	27.54	150	57	Vertical

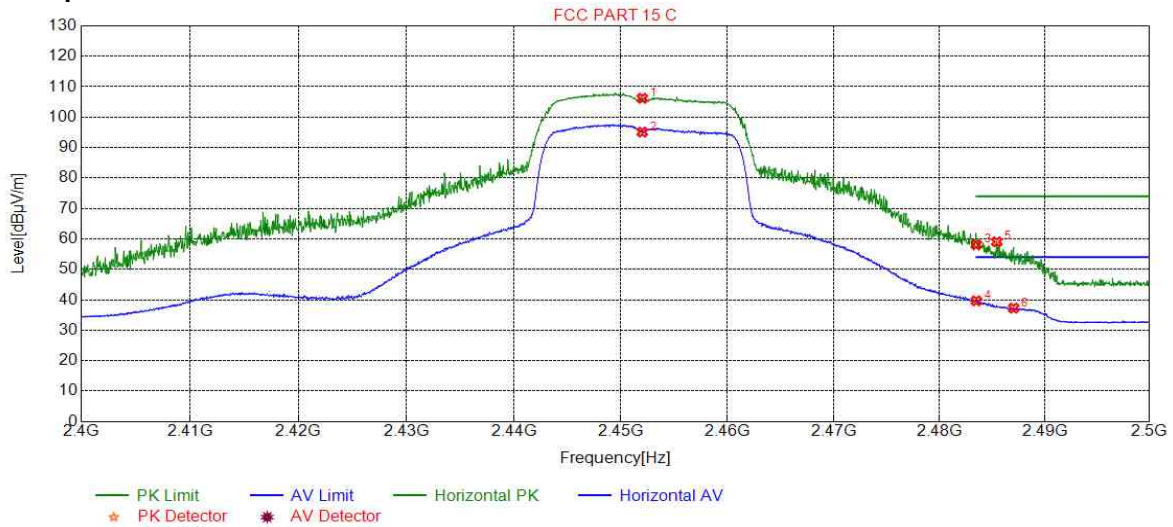
Final Data List



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4.10.1.31 802.11N20_Channel 9
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	106.19	7.97	0.00	-106.19	150	308	Horizontal
2	2452.00	95.11	7.97	0.00	-95.11	150	249	Horizontal
3	2483.50	58.12	8.01	74.00	15.88	150	249	Horizontal
4	2483.50	39.67	8.01	54.00	14.33	150	255	Horizontal
5	2485.44	59.06	8.01	74.00	14.94	150	238	Horizontal
6	2487.04	37.27	8.01	54.00	16.73	150	260	Horizontal

Final Data List

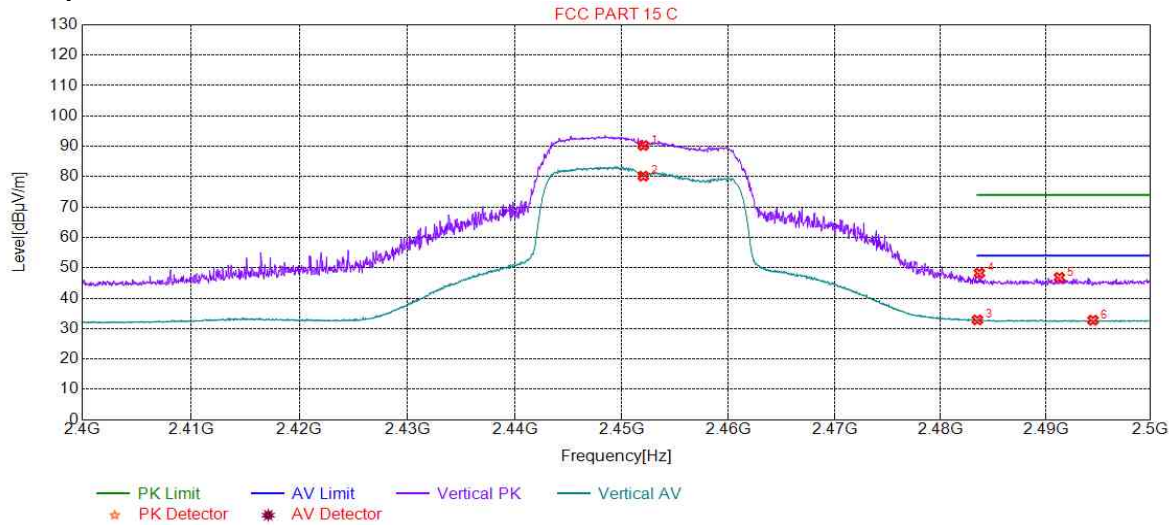


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4.10.1.32 802.11N20_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	90.27	7.97	0.00	-90.27	150	14	Vertical
2	2452.00	80.18	7.97	0.00	-80.18	150	14	Vertical
3	2483.50	32.87	8.01	54.00	21.13	150	19	Vertical
4	2483.69	48.25	8.01	74.00	25.75	150	182	Vertical
5	2491.29	46.86	8.02	74.00	27.14	150	128	Vertical
6	2494.49	32.78	8.02	54.00	21.22	150	339	Vertical

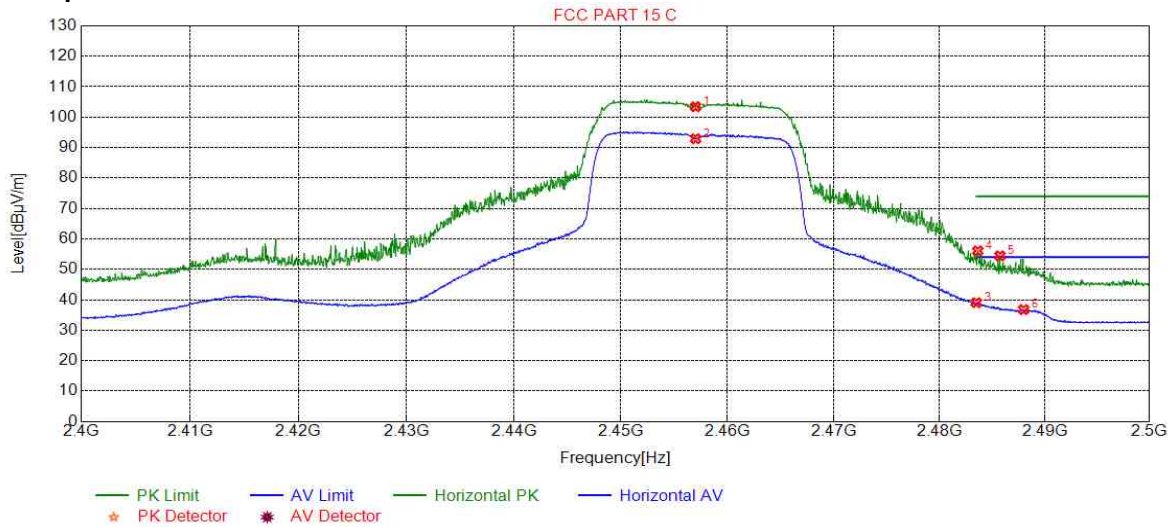
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4.10.1.33 802.11N20_Channel 10
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	103.41	7.98	0.00	-103.41	150	298	Horizontal
2	2457.00	92.90	7.98	0.00	-92.90	150	249	Horizontal
3	2483.50	39.07	8.01	54.00	14.93	150	249	Horizontal
4	2483.64	56.07	8.01	74.00	17.93	150	238	Horizontal
5	2485.74	54.44	8.01	74.00	19.56	150	238	Horizontal
6	2487.99	36.77	8.02	54.00	17.23	150	249	Horizontal

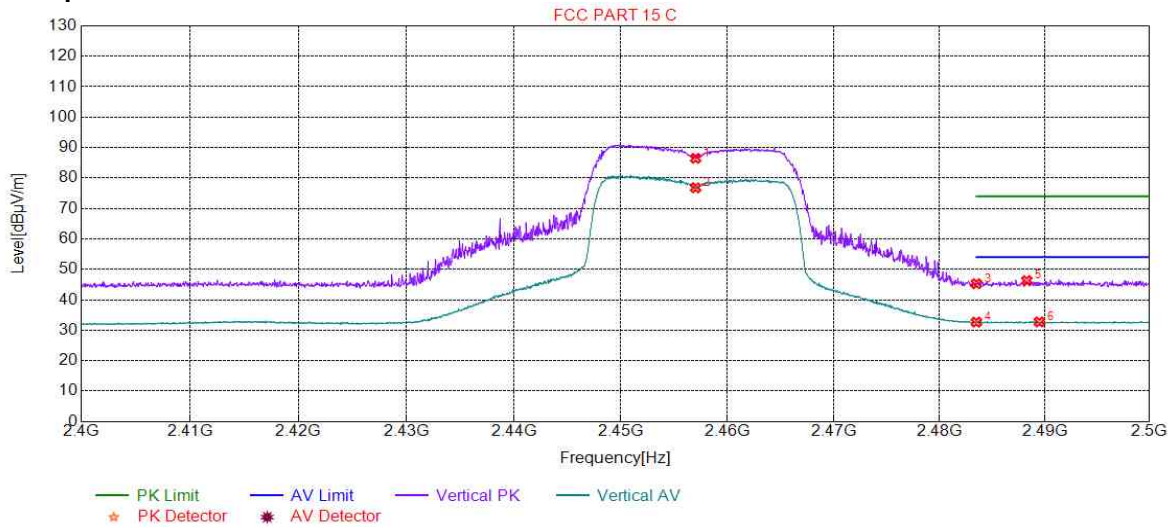
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4.10.1.34 802.11N20_Channel 10
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	86.48	7.98	0.00	-86.48	150	352	Vertical
2	2457.00	76.79	7.98	0.00	-76.79	150	341	Vertical
3	2483.50	45.30	8.01	74.00	28.70	150	184	Vertical
4	2483.50	32.66	8.01	54.00	21.34	150	156	Vertical
5	2488.29	46.29	8.02	74.00	27.71	150	178	Vertical
6	2489.49	32.73	8.02	54.00	21.27	150	14	Vertical

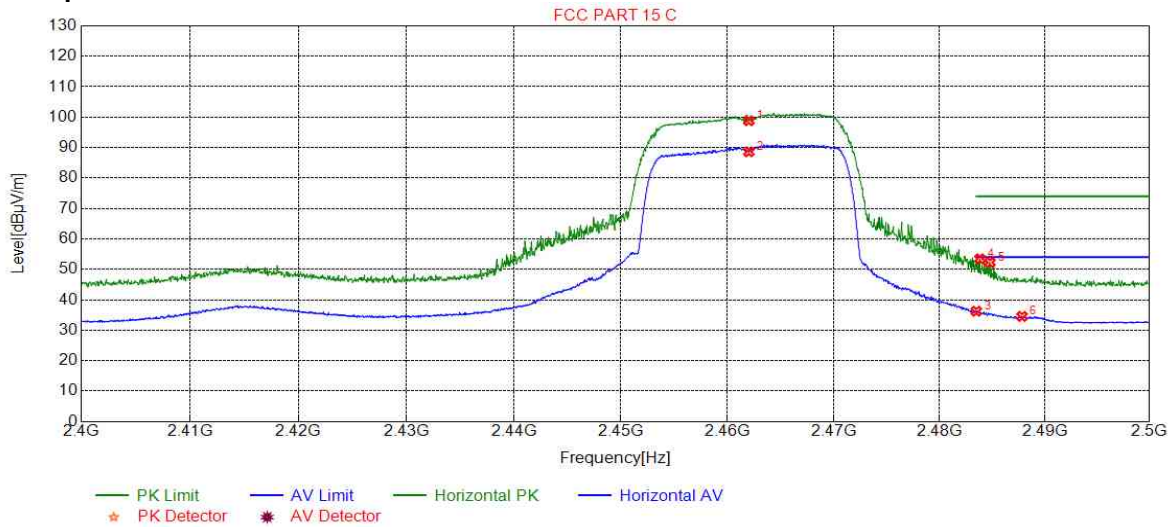
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4.10.1.35 802.11N20_Channel 11
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	98.82	7.98	0.00	-98.82	150	303	Horizontal
2	2462.00	88.62	7.98	0.00	-88.62	150	259	Horizontal
3	2483.50	36.25	8.01	54.00	17.75	150	248	Horizontal
4	2483.84	53.45	8.01	74.00	20.55	150	248	Horizontal
5	2484.79	52.27	8.01	74.00	21.73	150	232	Horizontal
6	2487.84	34.55	8.02	54.00	19.45	150	248	Horizontal

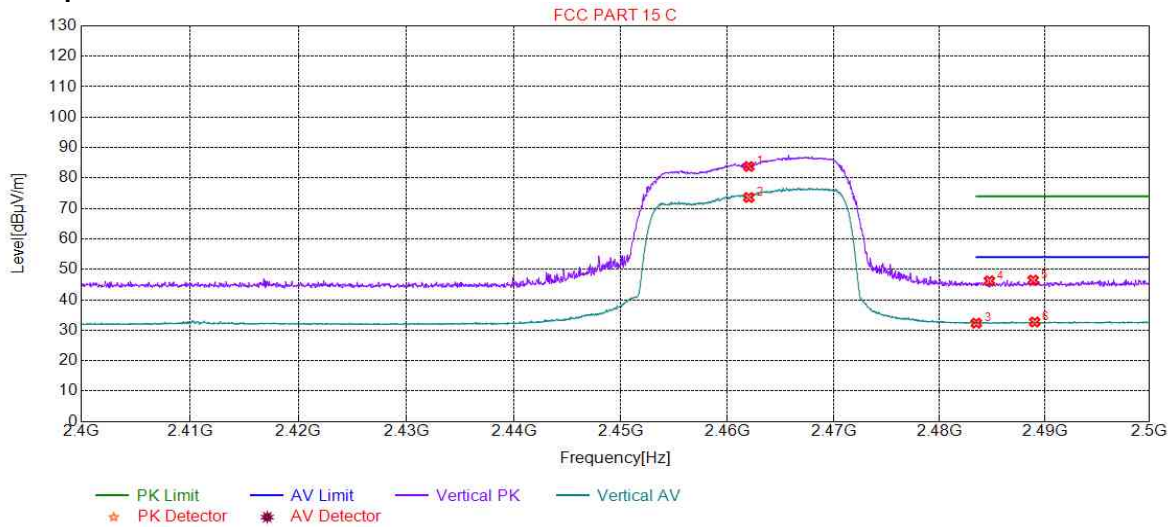
Final Data List



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4.10.1.36 802.11N20_Channel 11
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	83.82	7.98	0.00	-83.82	150	29	Vertical
2	2462.00	73.60	7.98	0.00	-73.60	150	29	Vertical
3	2483.50	32.33	8.01	54.00	21.67	150	150	Vertical
4	2484.74	46.23	8.01	74.00	27.77	150	264	Vertical
5	2488.89	46.46	8.02	74.00	27.54	150	344	Vertical
6	2489.04	32.71	8.02	54.00	21.29	150	360	Vertical

Final Data List

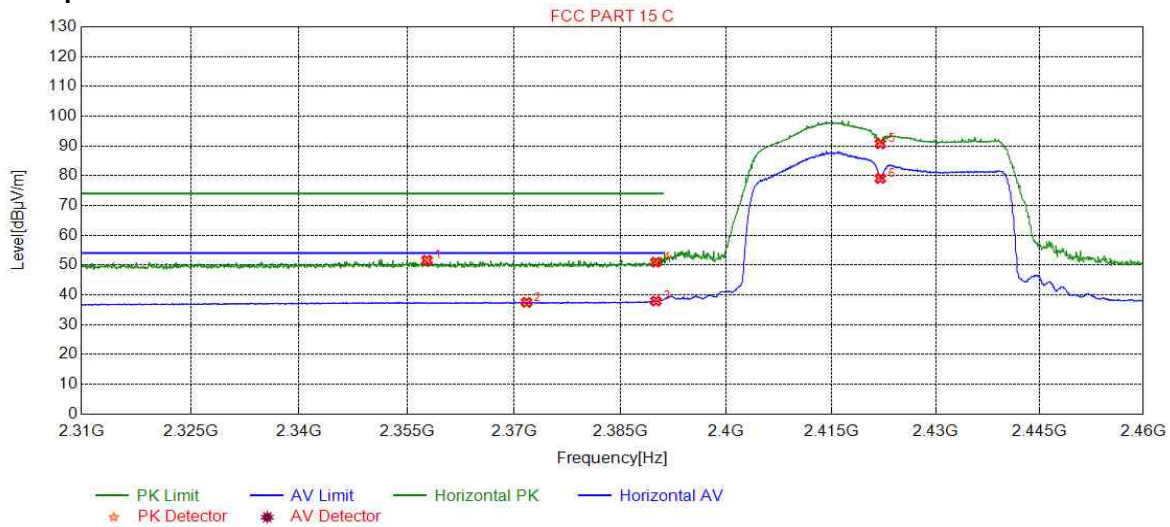


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4.10.1.37 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.79	51.59	7.80	74.00	22.41	150	123	Horizontal
2	2371.75	37.44	7.79	54.00	16.56	150	205	Horizontal
3	2390.00	37.87	7.77	54.00	16.13	150	302	Horizontal
4	2390.00	50.92	7.77	74.00	23.08	150	205	Horizontal
5	2422.00	90.72	7.85	0.00	-90.72	150	264	Horizontal
6	2422.00	79.06	7.85	0.00	-79.06	150	302	Horizontal

Final Data List

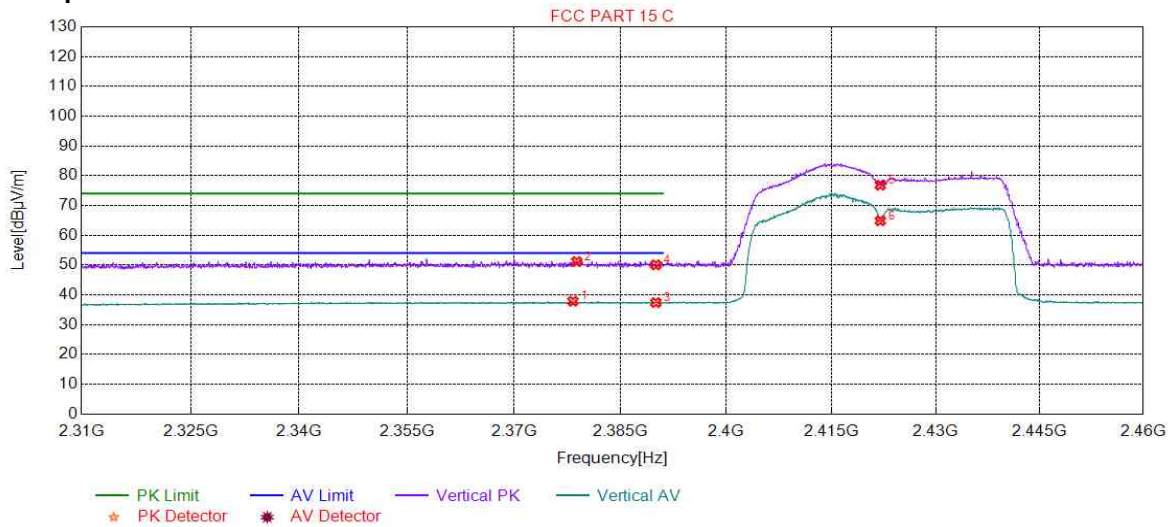


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4.10.1.38 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.28	37.83	7.78	54.00	16.17	150	14	Vertical
2	2378.80	51.16	7.78	74.00	22.84	150	216	Vertical
3	2390.00	37.38	7.77	54.00	16.62	150	255	Vertical
4	2390.00	50.05	7.77	74.00	23.95	150	101	Vertical
5	2422.00	76.83	7.85	0.00	-76.83	150	178	Vertical
6	2422.00	64.86	7.85	0.00	-64.86	150	178	Vertical

Final Data List

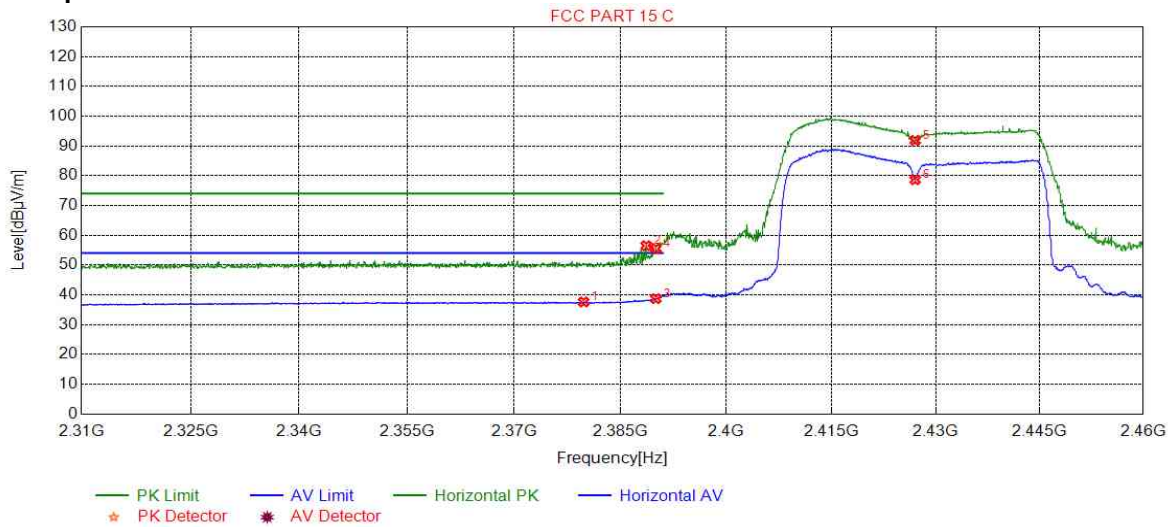


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4.10.1.39 802.11N40_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.78	37.59	7.78	54.00	16.41	150	310	Horizontal
2	2388.63	56.47	7.77	74.00	17.53	150	336	Horizontal
3	2390.00	38.69	7.77	54.00	15.31	150	304	Horizontal
4	2390.00	55.49	7.77	74.00	18.51	150	320	Horizontal
5	2427.00	91.82	7.87	0.00	-91.82	150	304	Horizontal
6	2427.00	78.62	7.87	0.00	-78.62	150	254	Horizontal

Final Data List

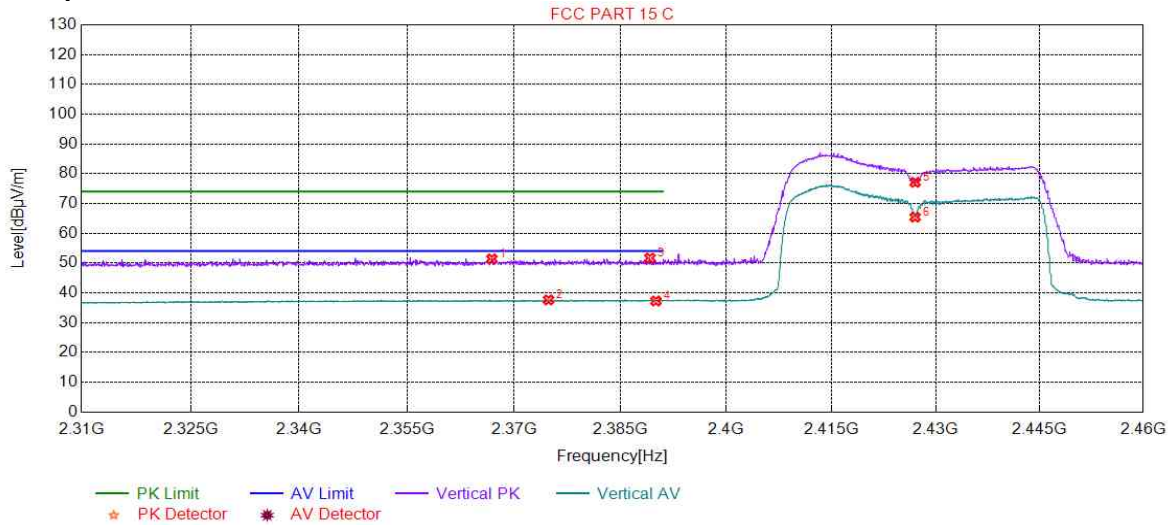


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4.10.1.40 802.11N40_Channel 4

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.87	51.40	7.79	74.00	22.60	150	73	Vertical
2	2374.83	37.60	7.79	54.00	16.40	150	211	Vertical
3	2389.16	51.65	7.77	74.00	22.35	150	127	Vertical
4	2390.00	37.24	7.77	54.00	16.76	150	315	Vertical
5	2427.00	77.07	7.87	0.00	-77.07	150	183	Vertical
6	2427.00	65.39	7.87	0.00	-65.39	150	178	Vertical

Final Data List

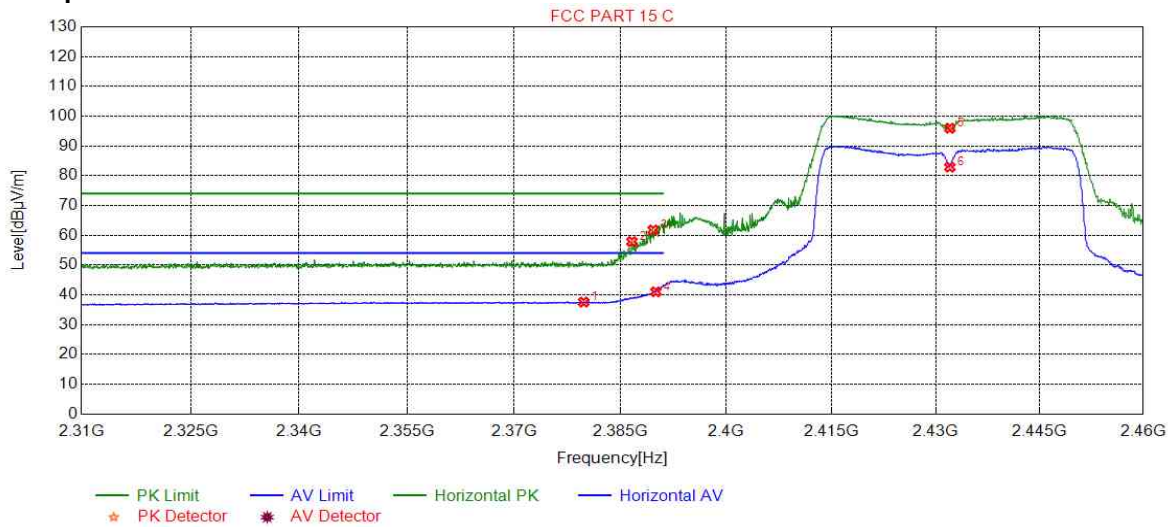


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4.10.1.41 802.11N40_Channel 5

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.78	37.56	7.78	54.00	16.44	150	236	Horizontal
2	2386.61	57.85	7.77	74.00	16.15	150	208	Horizontal
3	2389.61	61.77	7.77	74.00	12.23	150	192	Horizontal
4	2390.00	41.01	7.77	54.00	12.99	150	208	Horizontal
5	2432.00	95.94	7.89	0.00	-95.94	150	308	Horizontal
6	2432.00	82.86	7.89	0.00	-82.86	150	319	Horizontal

Final Data List

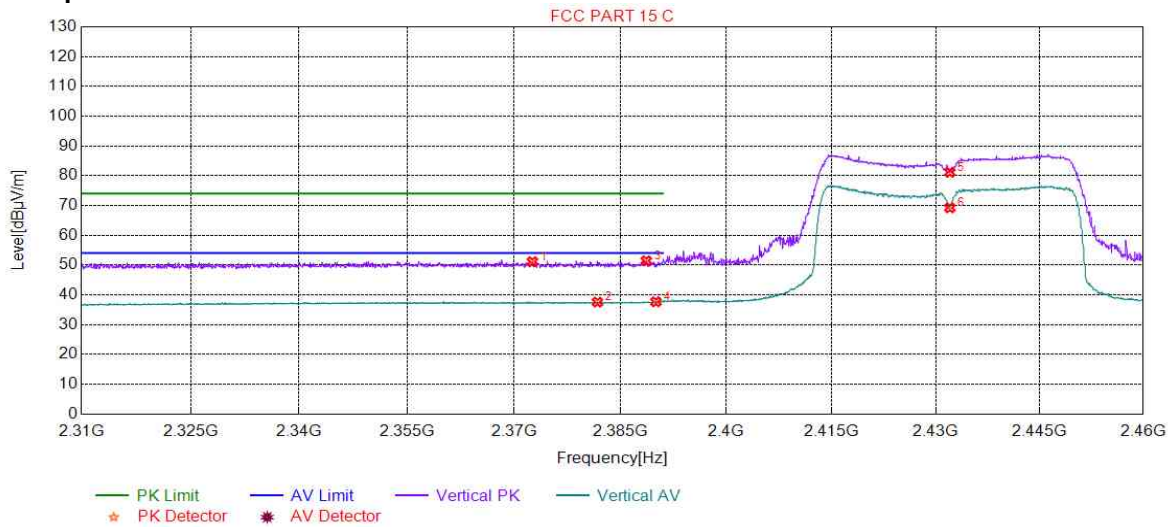


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4.10.1.42 802.11N40_Channel 5

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.58	51.12	7.79	74.00	22.88	150	24	Vertical
2	2381.73	37.53	7.78	54.00	16.47	150	106	Vertical
3	2388.63	51.42	7.77	74.00	22.58	150	199	Vertical
4	2390.00	37.65	7.77	54.00	16.35	150	172	Vertical
5	2432.00	81.12	7.89	0.00	-81.12	150	177	Vertical
6	2432.00	69.20	7.89	0.00	-69.20	150	194	Vertical

Final Data List

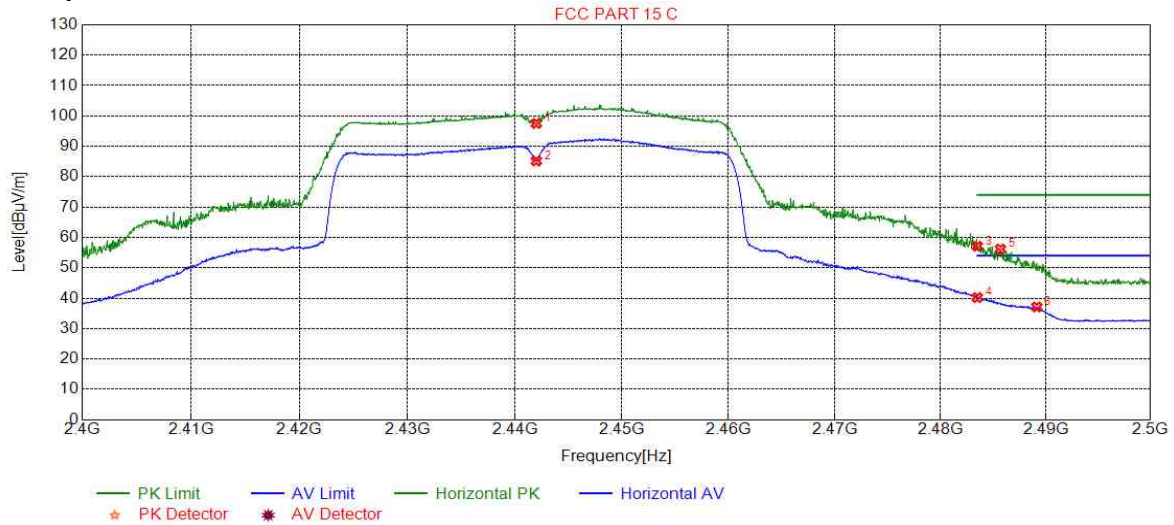


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4.10.1.43 802.11N40_Channel 7

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2442.00	97.54	7.94	0.00	-97.54	150	300	Horizontal
2	2442.00	85.18	7.94	0.00	-85.18	150	249	Horizontal
3	2483.50	57.11	8.01	74.00	16.89	150	289	Horizontal
4	2483.50	40.23	8.01	54.00	13.77	150	255	Horizontal
5	2485.69	56.20	8.01	74.00	17.80	150	244	Horizontal
6	2489.14	37.13	8.02	54.00	16.87	150	249	Horizontal

Final Data List

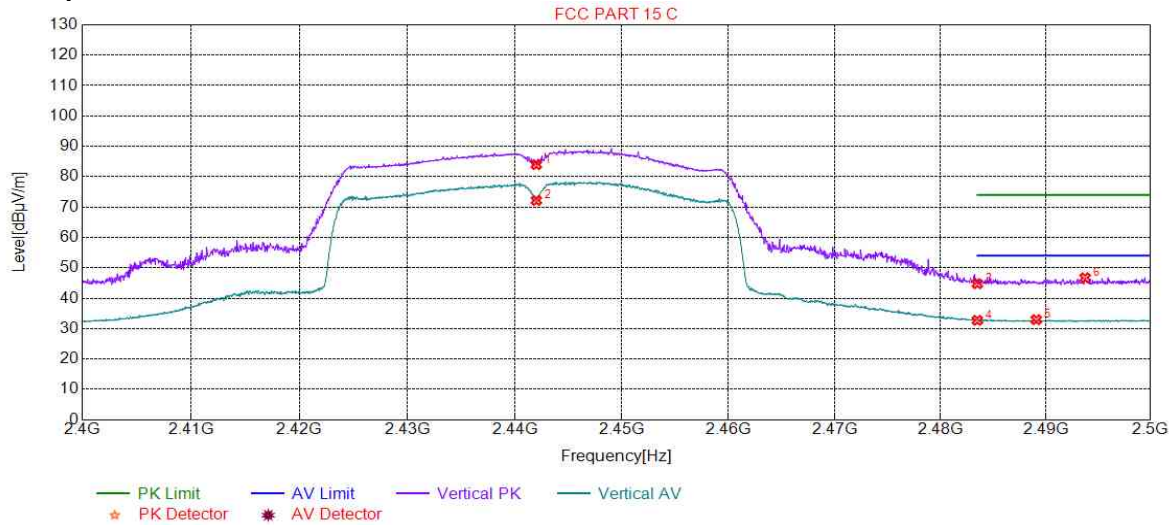


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4.10.1.44 802.11N40_Channel 7

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2442.00	83.97	7.94	0.00	-83.97	150	214	Vertical
2	2442.00	72.19	7.94	0.00	-72.19	150	214	Vertical
3	2483.50	44.78	8.01	74.00	29.22	150	321	Vertical
4	2483.50	32.73	8.01	54.00	21.27	150	34	Vertical
5	2489.09	32.94	8.02	54.00	21.06	150	191	Vertical
6	2493.74	46.74	8.02	74.00	27.26	150	272	Vertical

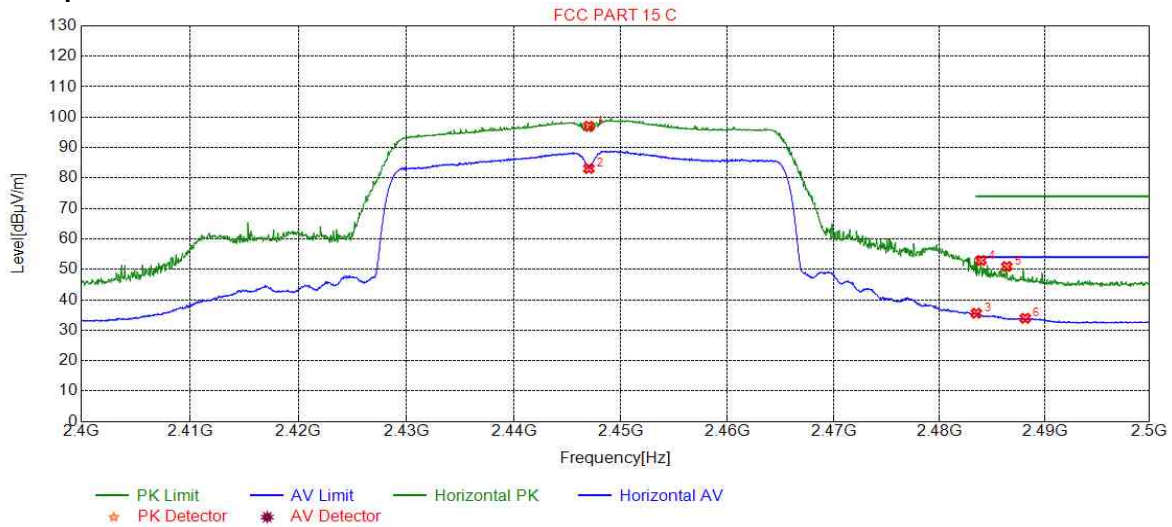
Final Data List



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4.10.1.45 802.11N40_Channel 8
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	97.04	7.96	0.00	-97.04	150	259	Horizontal
2	2447.00	83.13	7.96	0.00	-83.13	150	259	Horizontal
3	2483.50	35.58	8.01	54.00	18.42	150	265	Horizontal
4	2483.94	52.95	8.01	74.00	21.05	150	254	Horizontal
5	2486.39	50.93	8.01	74.00	23.07	150	254	Horizontal
6	2488.14	33.93	8.02	54.00	20.07	150	254	Horizontal

Final Data List

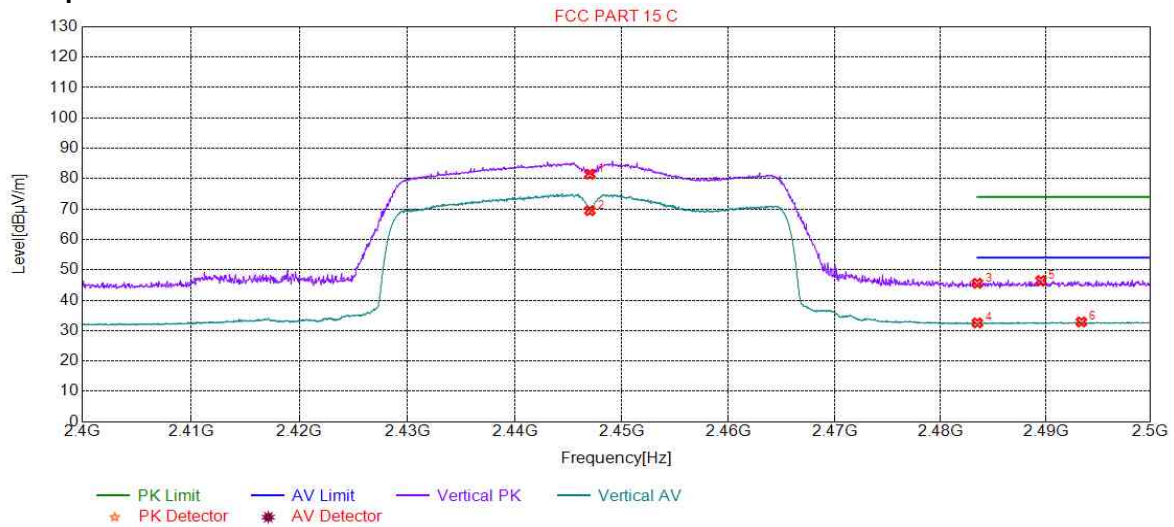


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4.10.1.46 802.11N40_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	81.47	7.96	0.00	-81.47	150	221	Vertical
2	2447.00	69.49	7.96	0.00	-69.49	150	215	Vertical
3	2483.50	45.57	8.01	74.00	28.43	150	177	Vertical
4	2483.50	32.56	8.01	54.00	21.44	150	30	Vertical
5	2489.54	46.49	8.02	74.00	27.51	150	62	Vertical
6	2493.39	32.86	8.02	54.00	21.14	150	111	Vertical

Final Data List

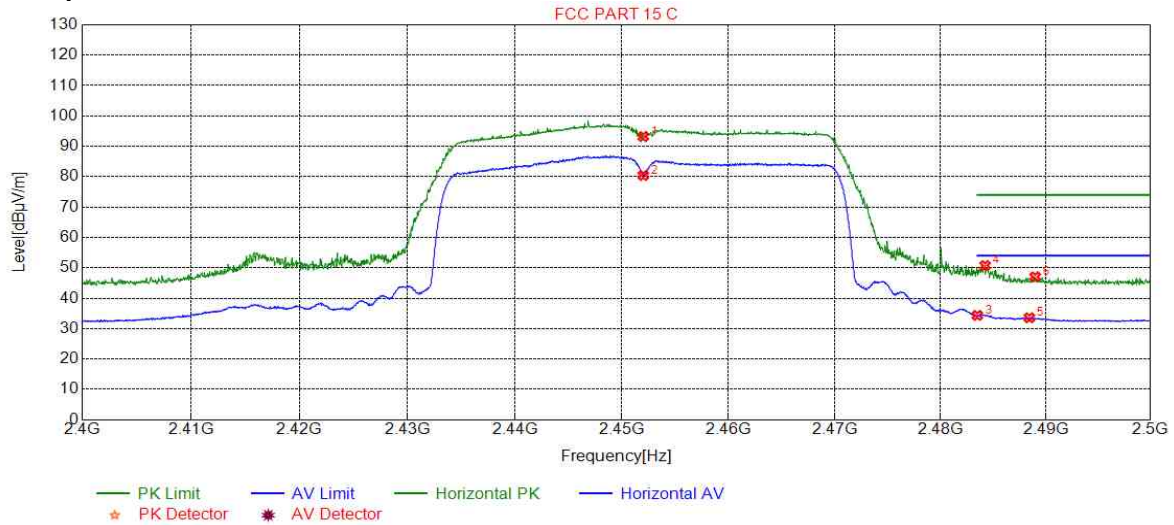


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4.10.1.47 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	93.22	7.97	0.00	-93.22	150	248	Horizontal
2	2452.00	80.41	7.97	0.00	-80.41	150	259	Horizontal
3	2483.50	34.36	8.01	54.00	19.64	150	259	Horizontal
4	2484.24	50.77	8.01	74.00	23.23	150	303	Horizontal
5	2488.44	33.58	8.02	54.00	20.42	150	248	Horizontal
6	2488.99	47.05	8.02	74.00	26.95	150	237	Horizontal

Final Data List

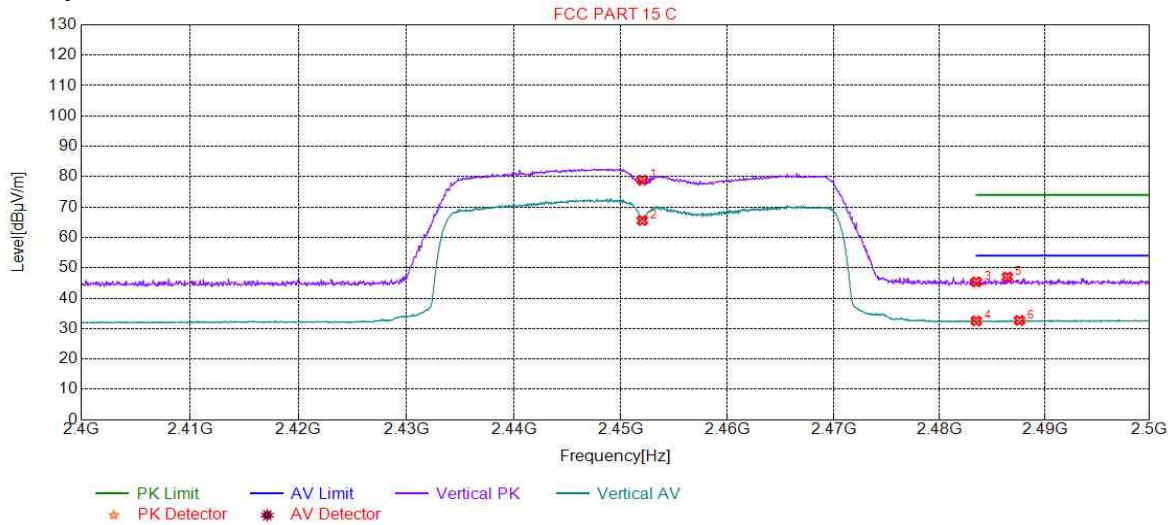


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4.10.1.48 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	78.89	7.97	0.00	-78.89	150	353	Vertical
2	2452.00	65.60	7.97	0.00	-65.60	150	14	Vertical
3	2483.50	45.38	8.01	54.00	8.62	150	14	Vertical
4	2483.50	32.54	8.01	54.00	21.46	150	231	Vertical
5	2486.44	46.99	8.01	74.00	27.01	150	236	Vertical
6	2487.59	32.69	8.02	54.00	21.31	150	159	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.



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

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	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-25GHz)
5	Conduct emission test	$\pm 3.12\text{ dB}$ (9KHz- 30MHz)
6	Temperature test	$\pm 1^{\circ}\text{C}$
7	Humidity test	$\pm 3\%$
8	DC and low frequency voltages	$\pm 0.5\%$



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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
2 Line ISN	Fischer Custom Communications Inc	FCC-TLISN-T202	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(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	2020/1/3	2021/1/2
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-CPAR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-2	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologie Inc	N9010A	SEM004-09	2020/3/12	2021/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/9/3	2021/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologie	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologie	8447D	SEM005-01	2020/3/2	2021/3/1



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2020/8/22	2023/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020/6/12	2021/6/11



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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for HR/2020/B0007.



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Appendix



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DTS Bandwidth

Test Result

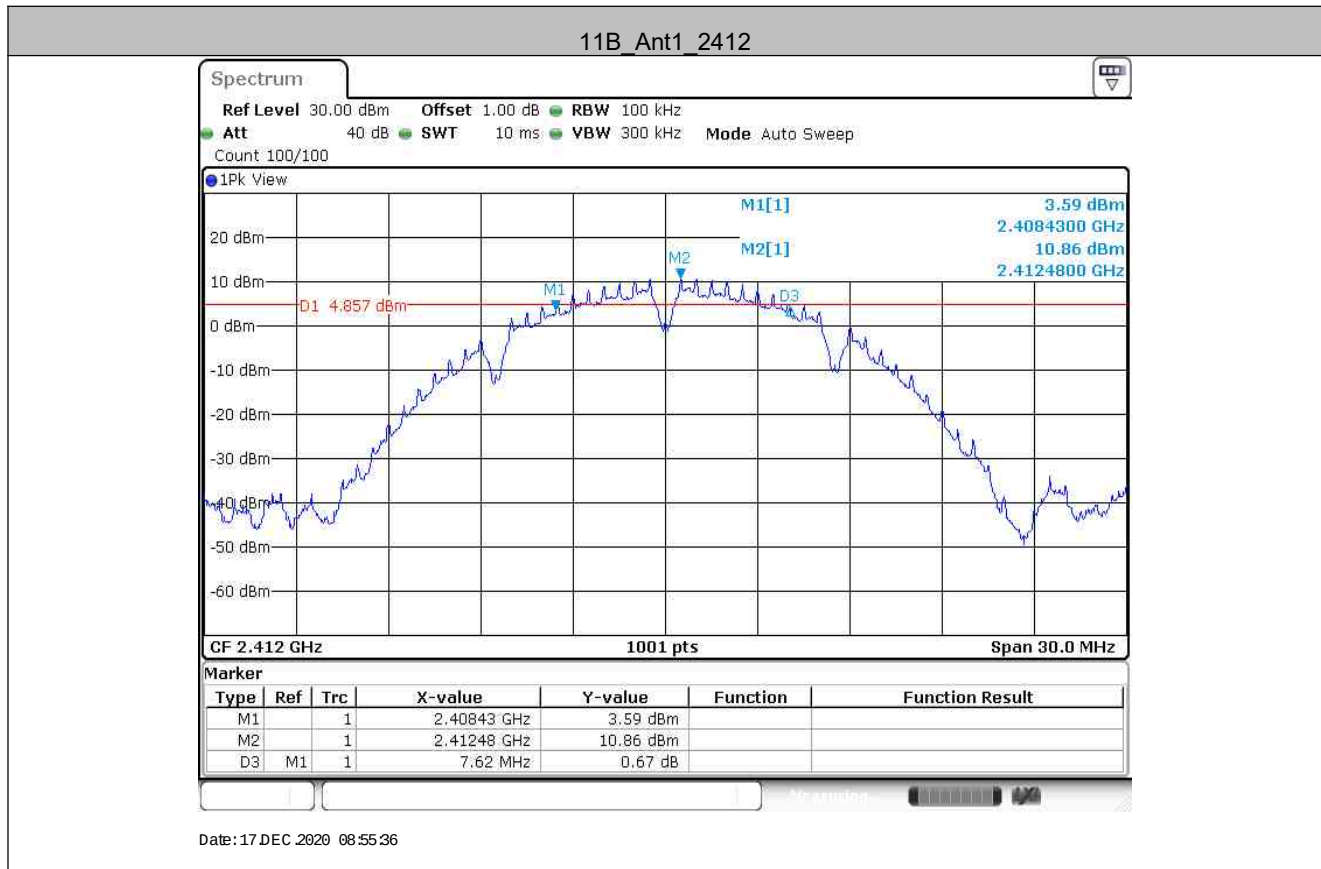
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	7.620	2408.430	2416.050	PASS
		2437	8.130	2432.950	2441.080	PASS
		2462	8.610	2457.440	2466.050	PASS
11G	Ant1	2412	15.180	2404.410	2419.590	PASS
		2437	16.350	2428.840	2445.190	PASS
		2462	16.350	2453.840	2470.190	PASS
11N20SISO	Ant1	2412	15.120	2404.440	2419.560	PASS
		2437	17.340	2428.450	2445.790	PASS
		2462	17.610	2453.210	2470.820	PASS
11N40SISO	Ant1	2422	35.220	2404.420	2439.640	PASS
		2437	35.880	2418.760	2454.640	PASS
		2452	35.280	2434.360	2469.640	PASS



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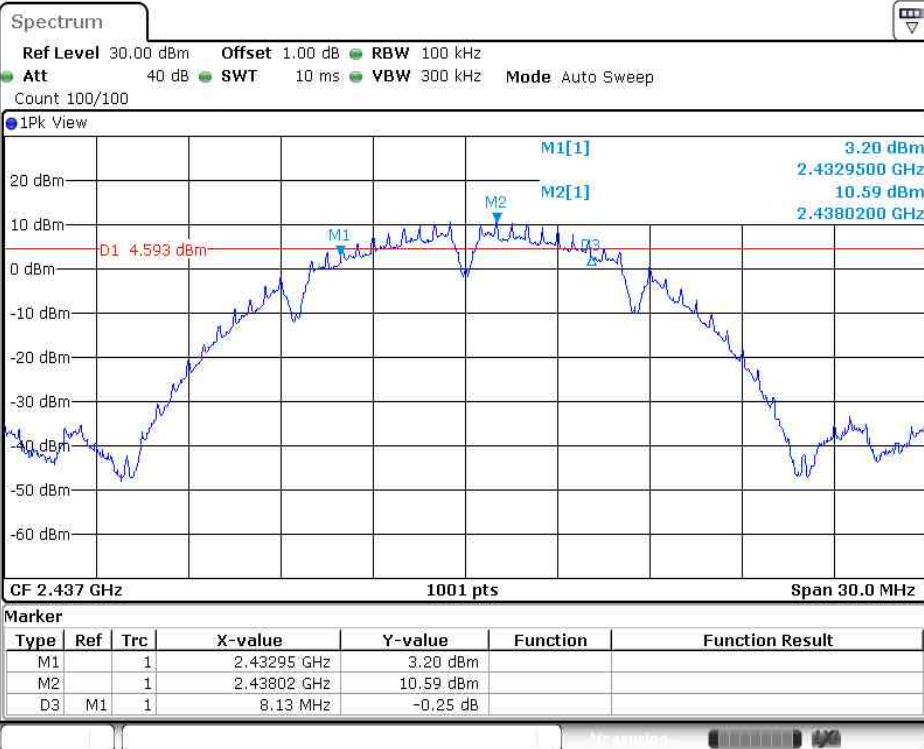
Test Graphs



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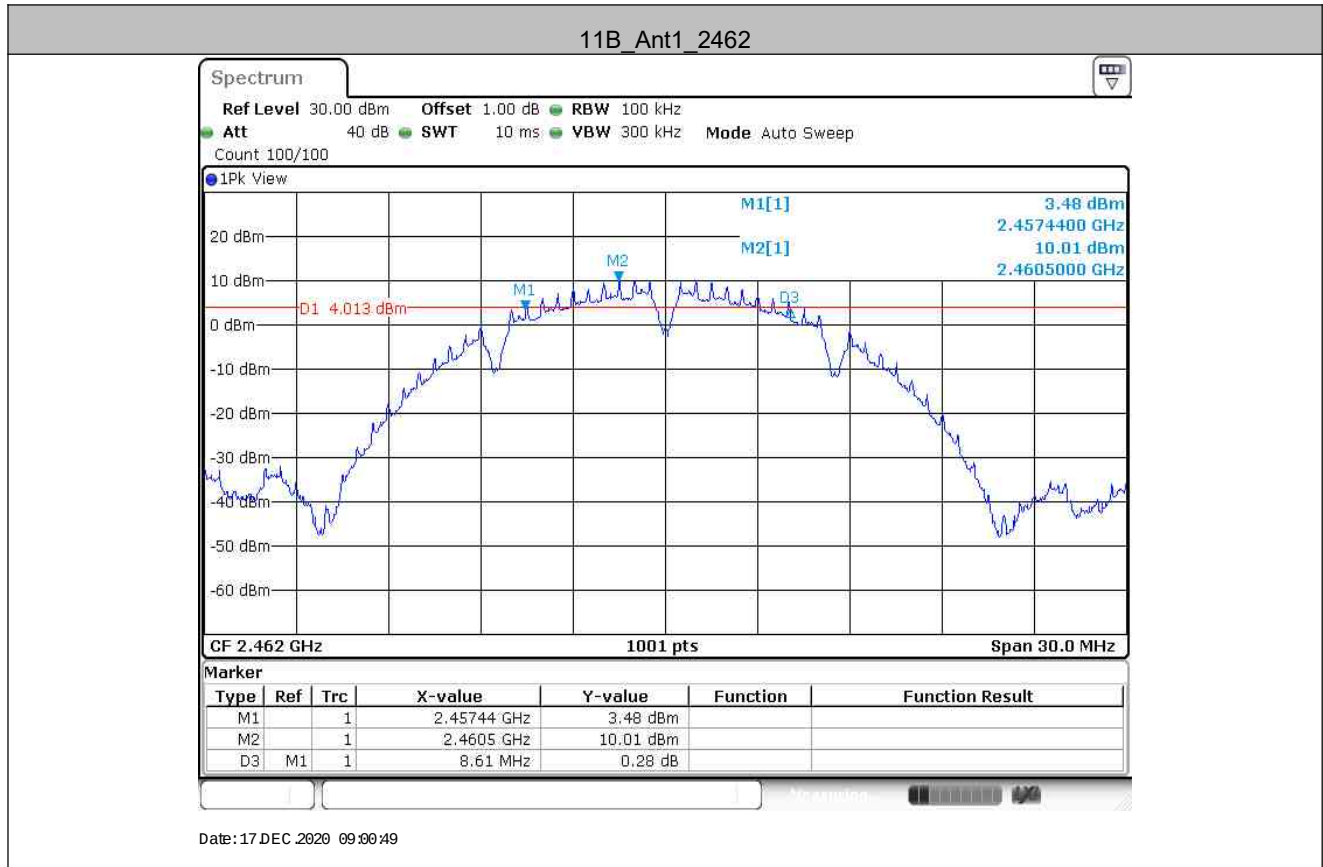
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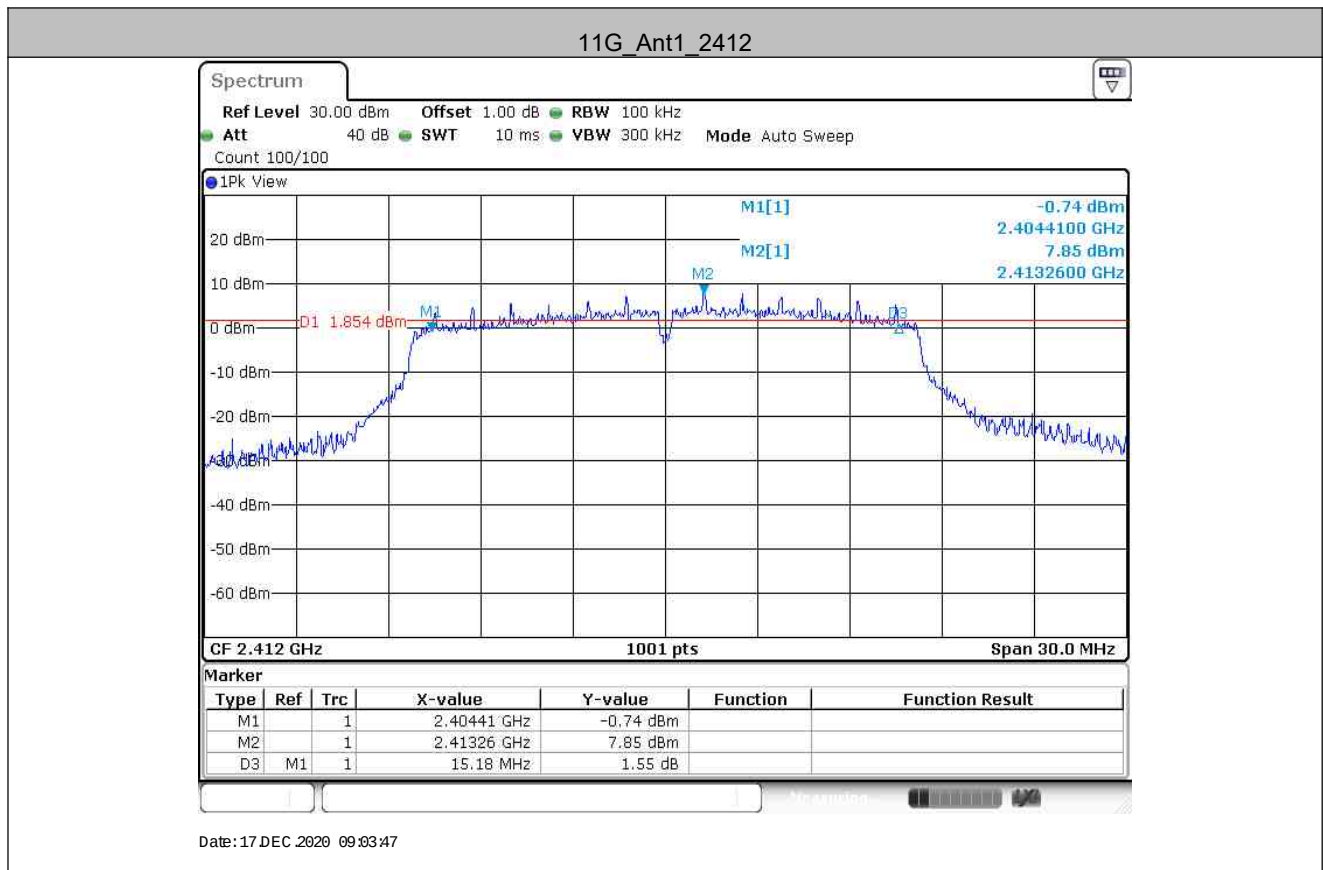
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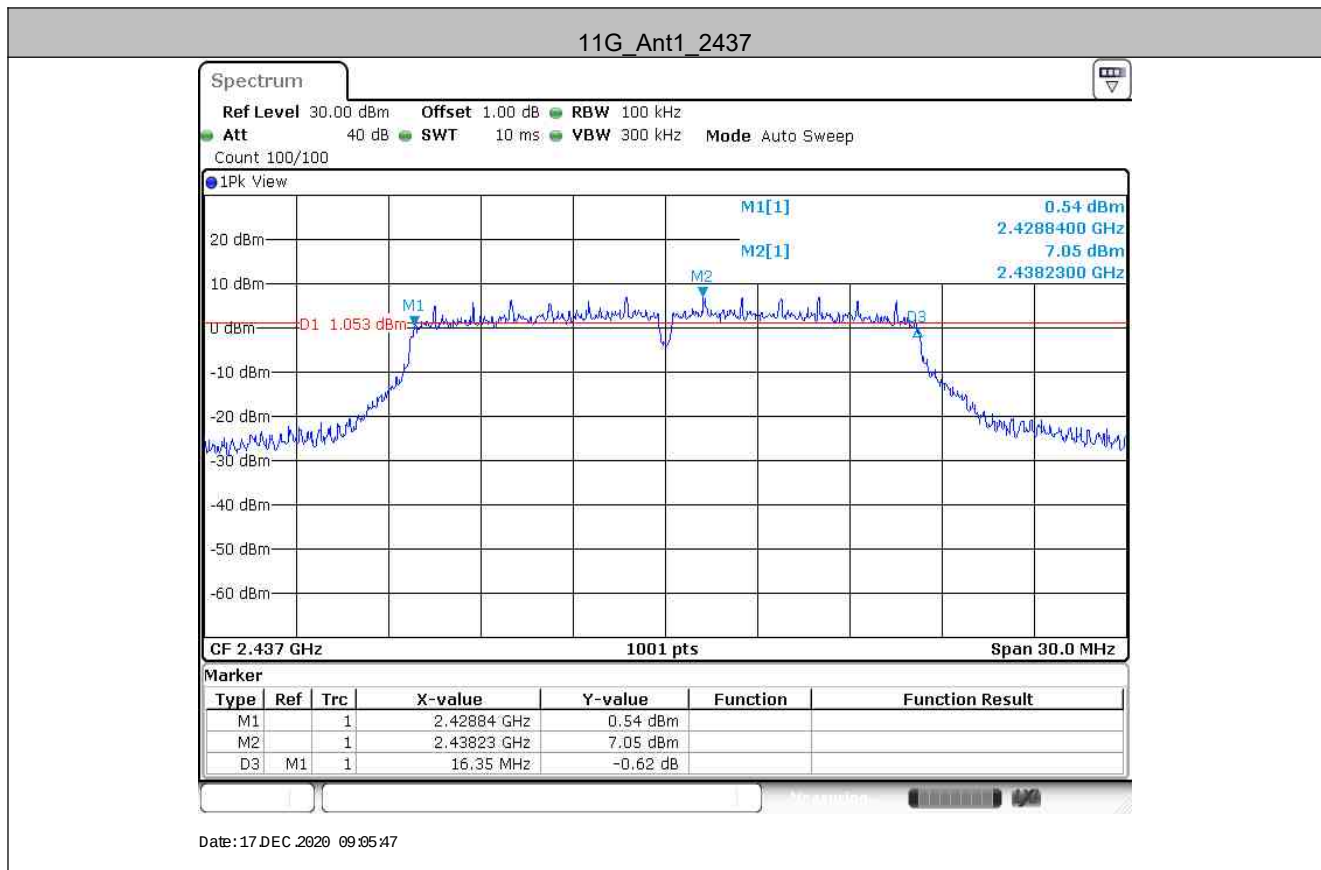
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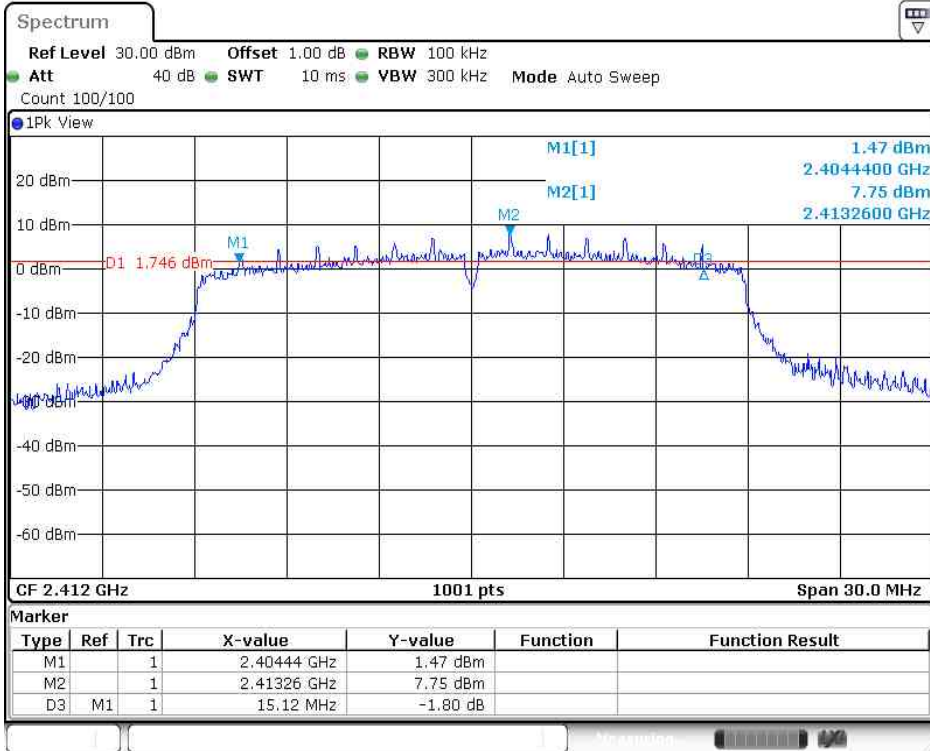


Date: 17 DEC 2020 09:07:50





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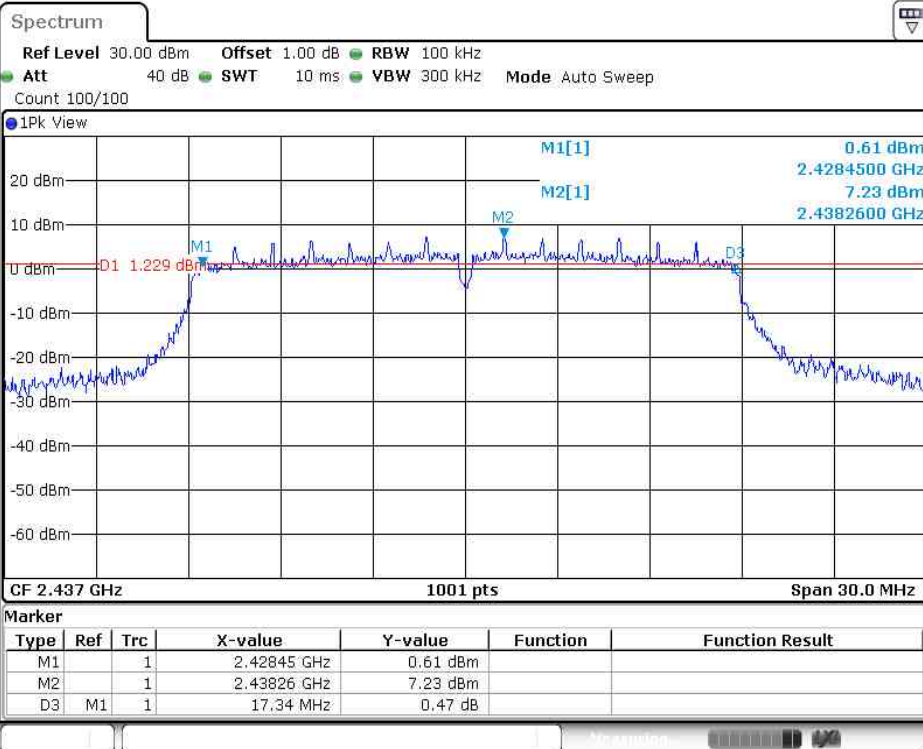
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