FCC TEST REPORT

Application No.:	AR/2020/C0006
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.:	M2010J19SY
Trade Mark:	Redmi
FCC ID:	2AFZZJ19SL
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart E
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02 FCC KDB 558074 D01 DTS Meas Guidance v0502 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 KDB 905462 D03 Client Without DFS New Rules v01r02 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices
Date of Receipt:	2020/12/11
Date of Test:	2020/12/11 to 2020/12/31(for original report AR/2020/C000405-01) 2020/12/20 to 2020/12/31(for new report AR/2020/C000605-01)
Date of Issue:	2021/4/27
Test Result :	**PASS ***

* 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		2021/1/7		Original
02		2021/4/27	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/C000605, issued on 2021-1-7, which is hereby deemed null and void.

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

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2 Test Summary

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

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		15.407(b)(7) 15.209	F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).			
	5470- 5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS	
	5725- 5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS	
Unwanted Emissions in the Restricted Bands (Radiated)	5150- 5250 5250- 5350 5470- 5725 5725- 5850	15.209	---	Clause 4.10	PASS	B
AC Power Line	5150- 5250	15.207	---	Clause 4.2	PASS	B

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Conducted Emissions	5250-5350 5470-5725 5725-5850					
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.11	PASS	A
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	PASS	B

Remark:
This test report (Report No.: AR/2020/C000605-01) is base on the original test report (Report No.: AR/2020/C000405-01).
Review this report and original report, this report just changing the parts according to the declaration letter from client.
According to the applicant’s statement, model numbers: M2010J19SY(FCC ID: 2AFZZJ19SY) and M2010J19SL(FCC ID: 2AFZZJ19SL)
Taking into account the differences, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.
Therefore in this report only the power was retested and radiated spurious emissions were performed based on the worst case(802.11A:Channel;802.11AC40:Channel:62) of the original report with report number AR/2020/C000405-01 and other test data in this report are base on the previous report with report number AR/2020/C000405-01.

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

3.2 Test Location

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.:	M2010J19SY
Trade Mark:	Redmi
Hardware Version:	P2
Software Version:	MIUI12
IEEE 802.11 WLAN Mode Supported	☒ 802.11a (20 MHz channel bandwidth), ☒ 802.11n (20 MHz channel bandwidth) ☒ 802.11n (40 MHz channel bandwidth), ☒ 802.11ac (20 MHz channel bandwidth) ☒ 802.11ac (40 MHz channel bandwidth) ☒ 802.11ac (80 MHz channel bandwidth) ☐ 802.11ac (160 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
DFS mode:	☐Master ☐ Slave with radar detection ☒Slave without radar detection
Sample Type:	☒ Portable Device, ☐Module
Antenna Type:	PIFA Antenna
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	☒ SISO (for 802.11a/n/ac), ☐ MIMO (for 802.11n/ac), ☐ Diversity (for 802.11a).
Antenna Gain:	0.9dBi

Remark:

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

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

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For UNII Band I:

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

For UNII Band II-A:

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

For UNII Band II-C:

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

For UNII Band III:

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

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3.5 Test Environment and Mode

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

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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 0.9dBi.	

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
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. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		

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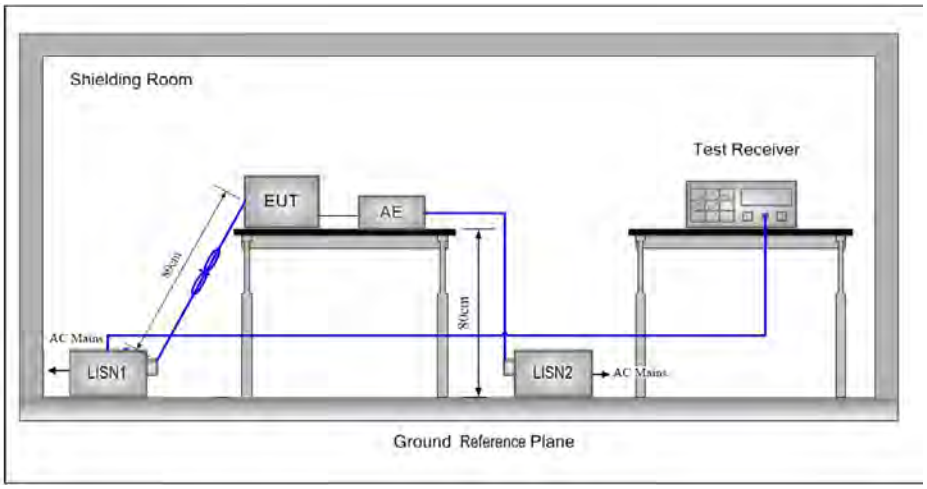
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer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

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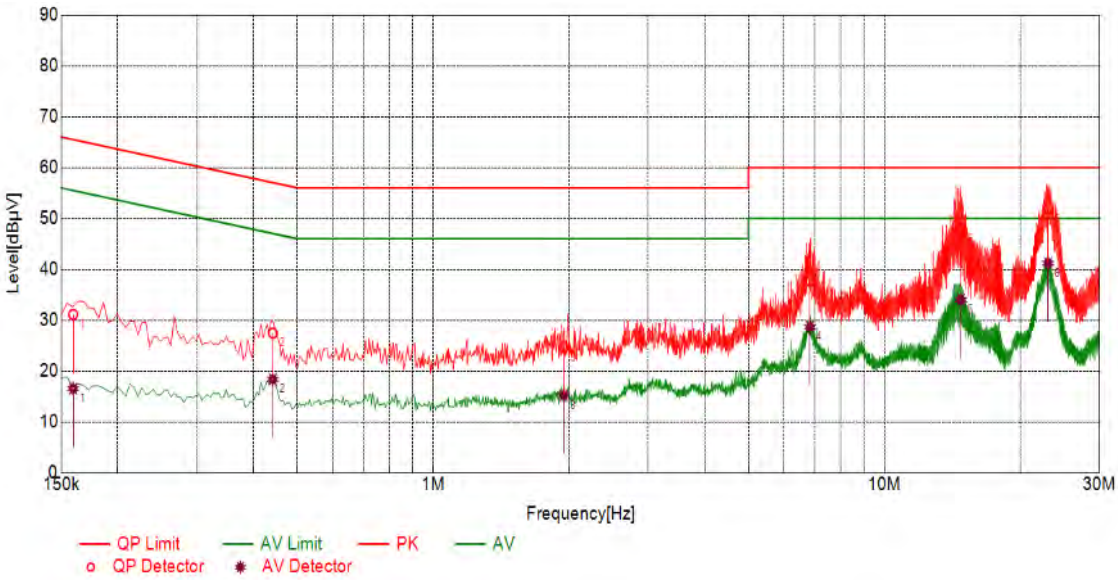
Measurement Data
An initial pre-scan was performed on the live and neutral lines with peak detector.
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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	0.1594	10.10	31.11	65.49	34.38	16.54	55.49	38.95
2	0.4416	10.10	27.47	57.03	29.56	18.36	47.03	28.67
3	1.9485	10.10	24.64	56.00	31.36	15.24	46.00	30.76
4	6.8417	10.10	37.75	60.00	22.25	28.66	50.00	21.34
5	14.7790	10.11	47.90	60.00	12.10	34.03	50.00	15.97
6	23.0697	10.11	51.97	60.00	8.03	41.20	50.00	8.80

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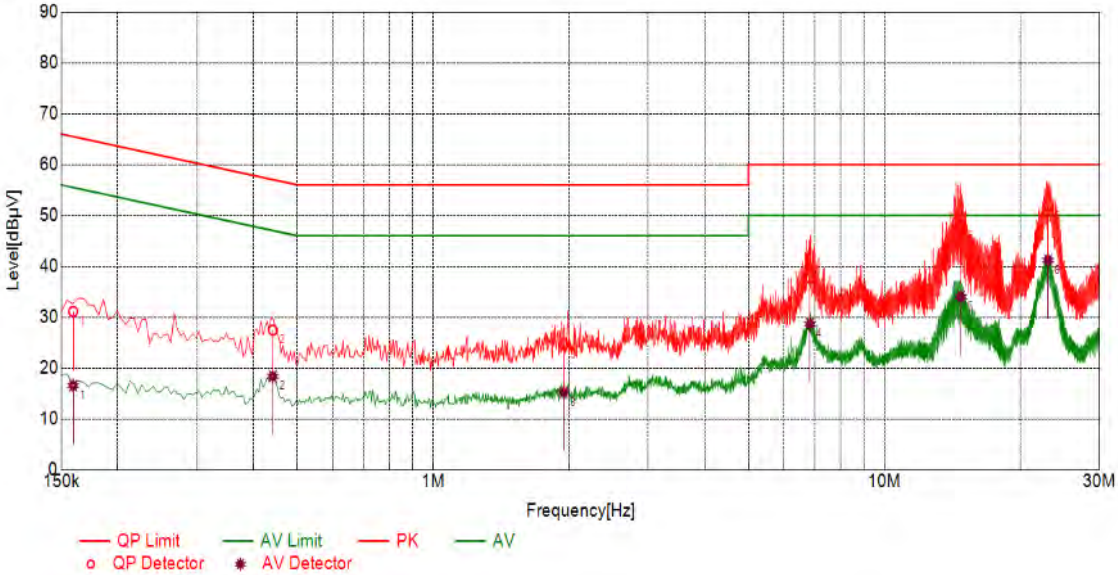
Neutral Line:



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	0.1594	10.10	31.11	65.49	34.38	16.54	55.49	38.95
2	0.4416	10.10	27.47	57.03	29.56	18.36	47.03	28.67
3	1.9485	10.10	24.64	56.00	31.36	15.24	46.00	30.76
4	6.8417	10.10	37.75	60.00	22.25	28.66	50.00	21.34
5	14.7790	10.11	47.90	60.00	12.10	34.03	50.00	15.97
6	23.0697	10.11	51.97	60.00	8.03	41.20	50.00	8.80

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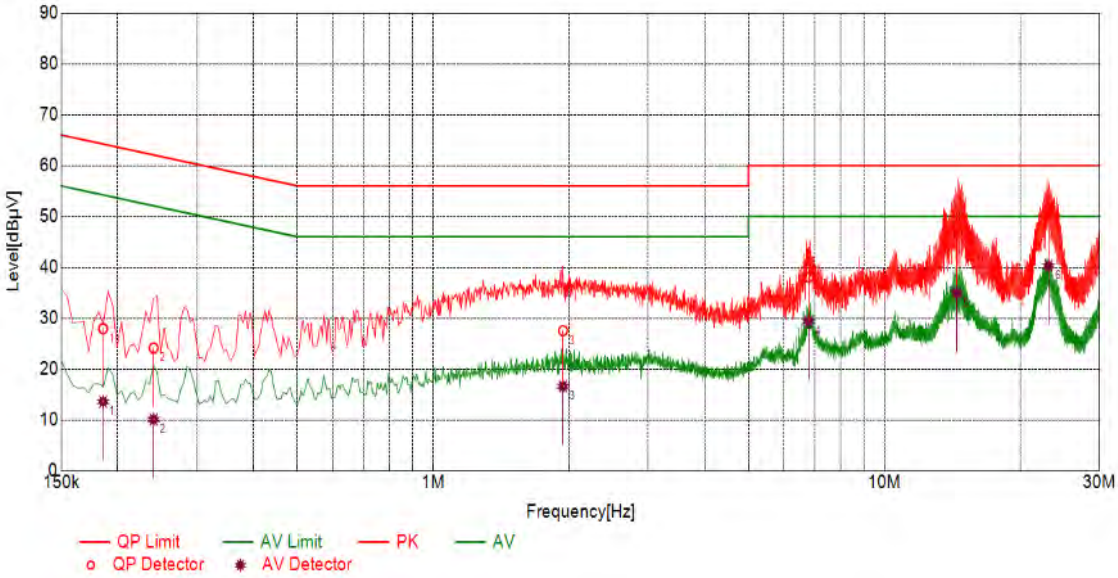
Test on the worst case:

Live Line:



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1857	10.10	27.94	64.22	36.28	13.58	54.22	40.64	L
2	0.2403	10.10	24.14	62.09	37.95	10.08	52.09	42.01	L
3	1.9410	10.10	27.55	56.00	28.45	16.61	46.00	29.39	L
4	6.7915	10.10	38.08	60.00	21.92	29.37	50.00	20.63	L
5	14.4660	10.11	47.98	60.00	12.02	34.87	50.00	15.13	L
6	23.1320	10.11	51.47	60.00	8.53	40.30	50.00	9.70	L

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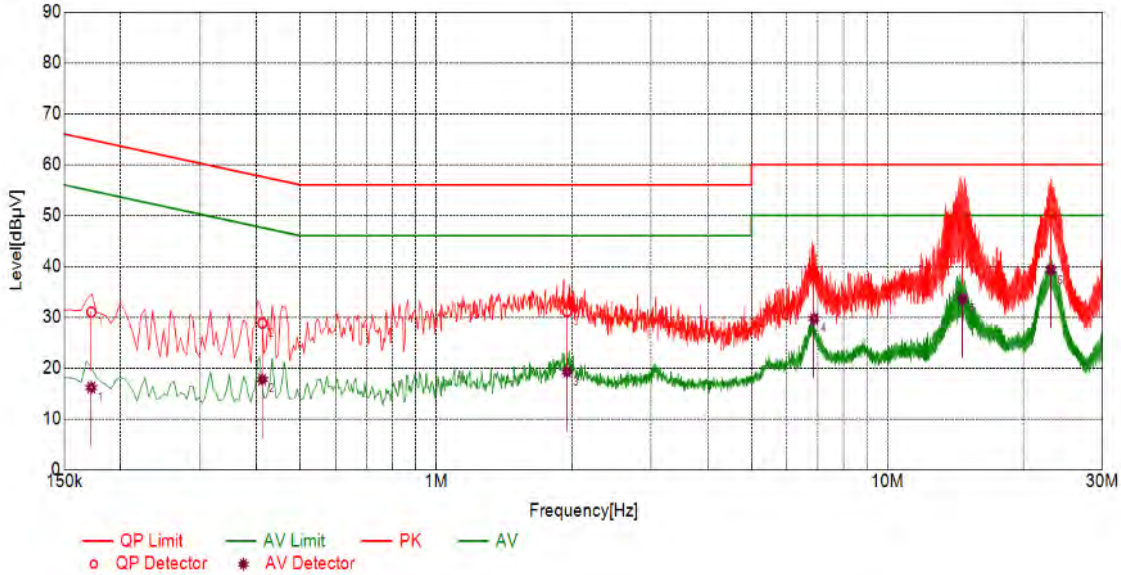

Test Graph

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	0.1722	10.10	31.00	64.85	33.85	16.17	54.85	38.68	N
2	0.4120	10.10	28.82	57.61	28.79	17.76	47.61	29.85	N
3	1.9506	10.10	31.13	56.00	24.87	19.23	46.00	26.77	N
4	6.8770	10.10	38.24	60.00	21.76	29.71	50.00	20.29	N
5	14.6936	10.11	48.01	60.00	11.99	33.57	50.00	16.43	N
6	23.0395	10.11	50.37	60.00	9.63	39.26	50.00	10.74	N

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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4.3 Duty Cycle

The detailed test data see: **Appendix**

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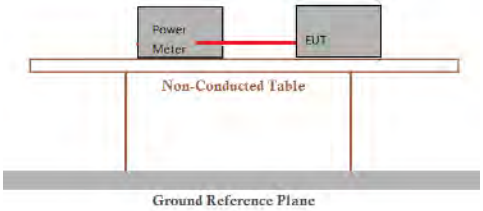
4.4 Conducted Output Power

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

The detailed test data see: **Appendix**

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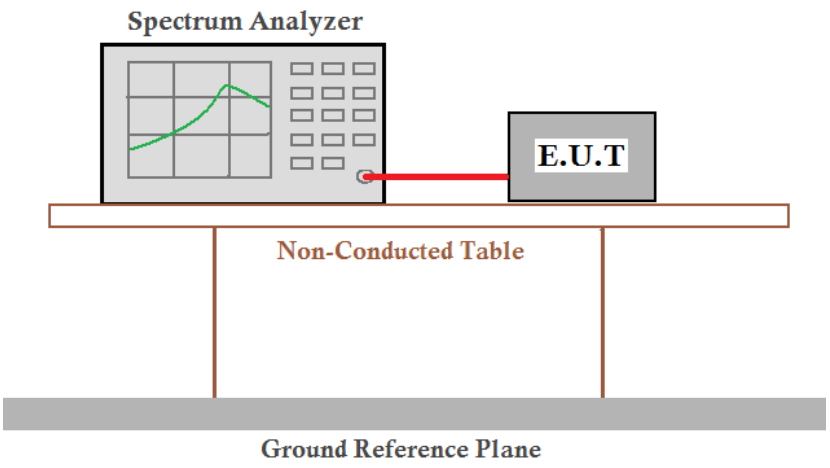
4.5 26dB Emission Bandwidth

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

The detailed test data see: **Appendix**

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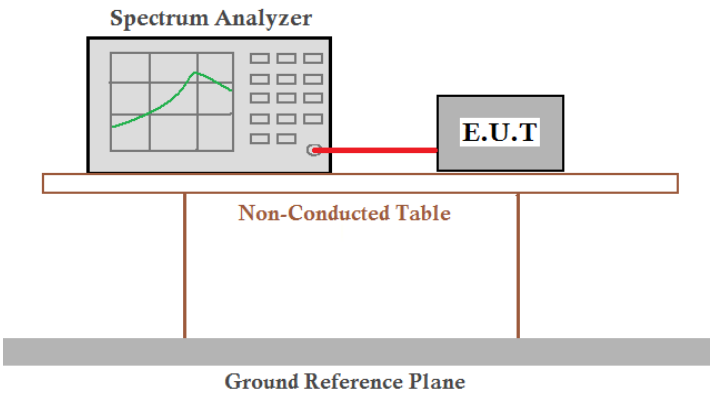
4.6 6dB Emission Bandwidth

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

The detailed test data see: **Appendix**

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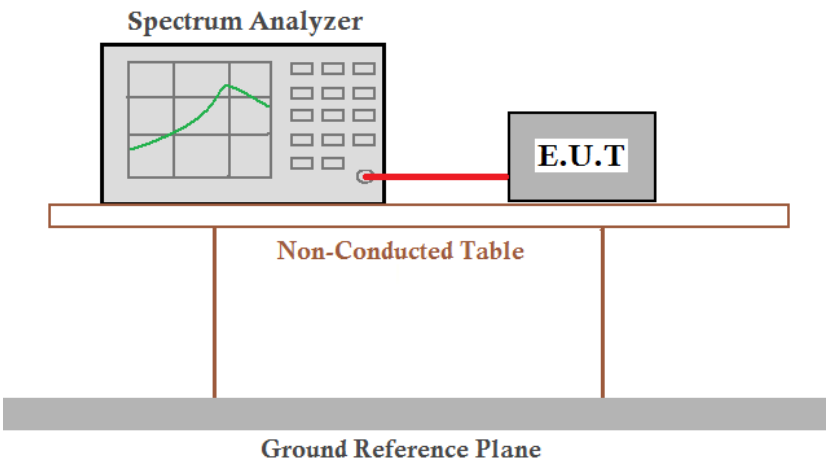
4.7 99% Occupied Bandwidth

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

The detailed test data see: **Appendix**

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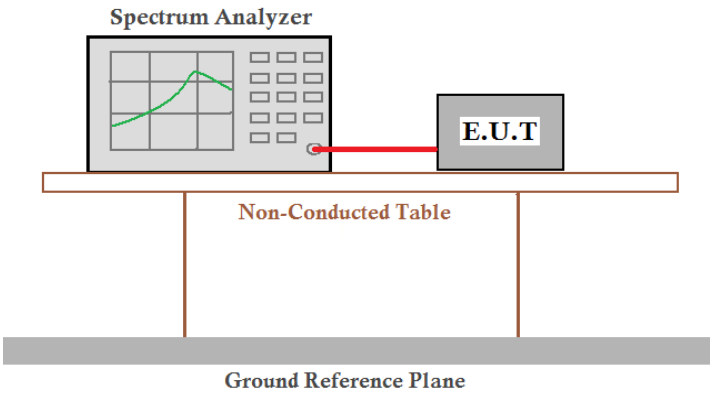
4.8 Power Spectral Density

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

The detailed test data see: **Appendix**

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4.9 Radiated Spurious Emissions

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

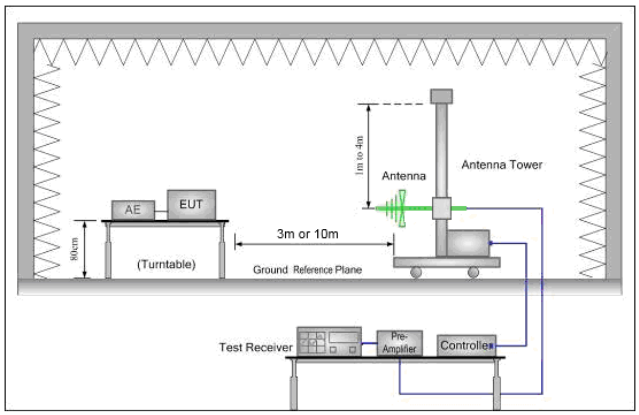

Figure 1. 30MHz to 1GHz

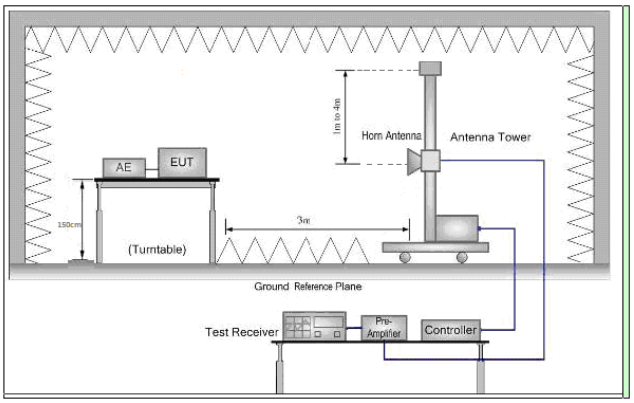

Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. 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. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40);

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

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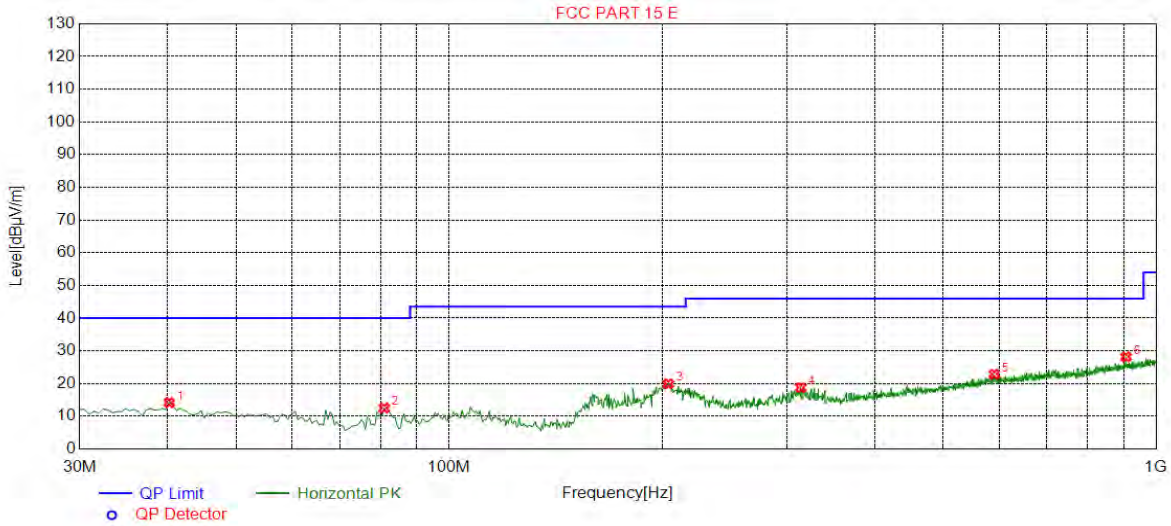
4.9.1 Radiated emission below 1GHz

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.1901	14.20	40.00	25.80	247	61	Horizontal
2	80.9505	12.54	40.00	27.46	223	87	Horizontal
3	204.2021	19.94	43.50	23.56	209	309	Horizontal
4	314.3522	18.79	46.00	27.21	212	339	Horizontal
5	590.4552	22.86	46.00	23.14	229	339	Horizontal
6	906.8334	28.18	46.00	17.82	170	31	Horizontal

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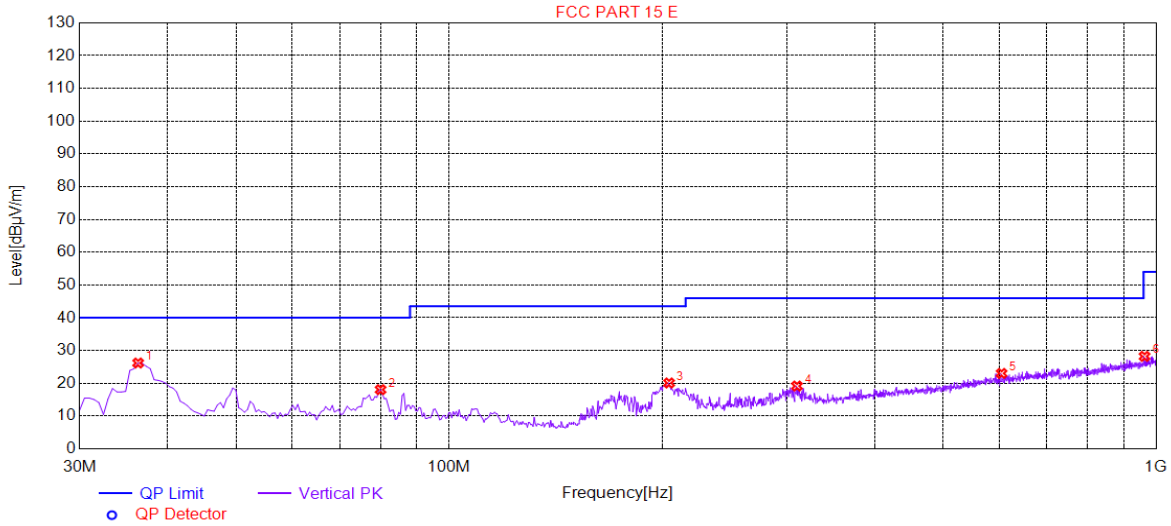
Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.3082	26.20	40.00	13.80	214	14	Vertical
2	79.9800	18.07	40.00	21.93	270	257	Vertical
3	204.6873	20.11	43.50	23.39	285	328	Vertical
4	310.4702	19.18	46.00	26.82	174	18	Vertical
5	604.5273	23.03	46.00	22.97	226	229	Vertical
6	963.1216	28.23	54.00	25.77	203	133	Vertical

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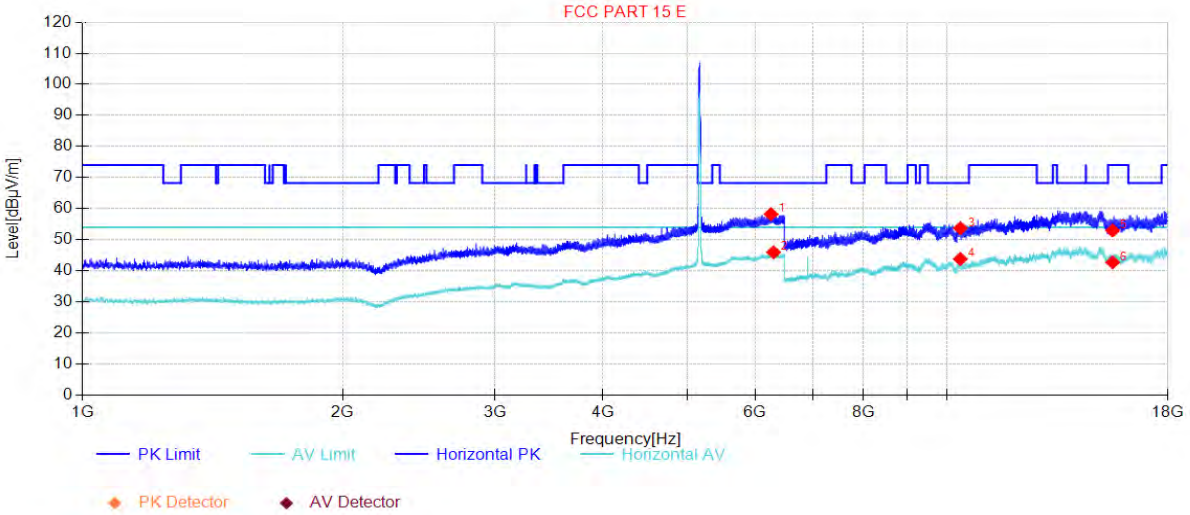
4.9.2 Transmitter emission above 1GHz

4.9.2.1 802.11A_Channel 36

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6256.517	58.20	18.27	68.20	10.00	185	Horizontal
2	6299.786	45.93	18.48	54.00	8.07	166	Horizontal
3	10360.00	53.68	2.38	68.20	14.52	151	Horizontal
4	10360.00	43.75	2.38	54.00	10.25	132	Horizontal
5	15540.00	52.92	5.88	74.00	21.08	192	Horizontal
6	15540.00	42.69	5.88	54.00	11.31	110	Horizontal

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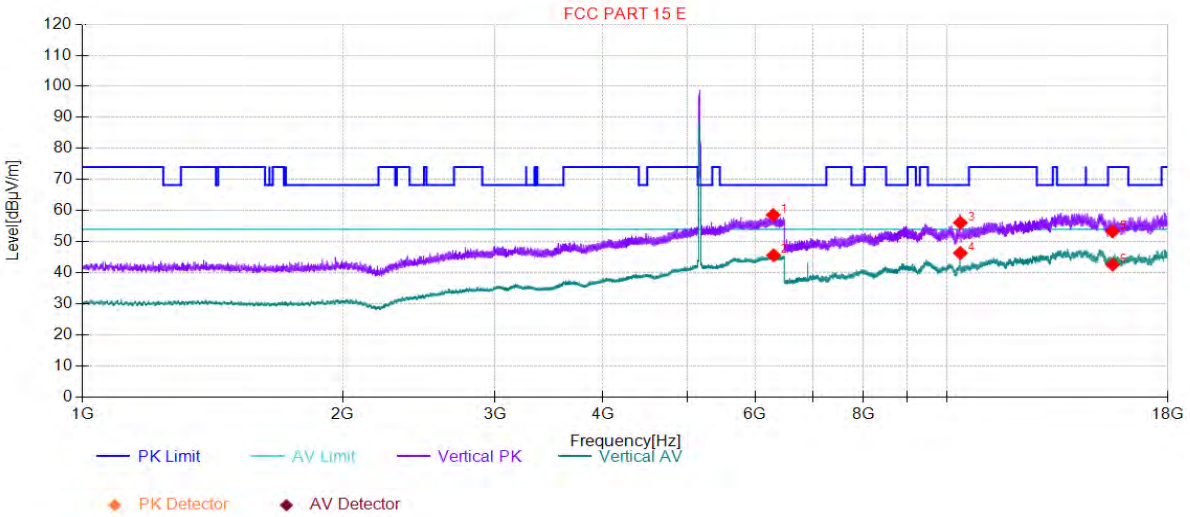
4.9.2.2 802.11A_Channel 36

Test Graph



Suspected List

Suspected List							
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1	6293.552	58.59	18.45	68.20	9.61	222	Vertical
2	6300.153	45.60	18.48	54.00	8.40	213	Vertical
3	10360.00	56.10	2.38	68.20	12.10	236	Vertical
4	10360.00	46.31	2.38	54.00	7.69	206	Vertical
5	15540.00	53.30	5.88	74.00	20.70	287	Vertical
6	15540.00	42.61	5.88	54.00	11.39	244	Vertical

Final Data List

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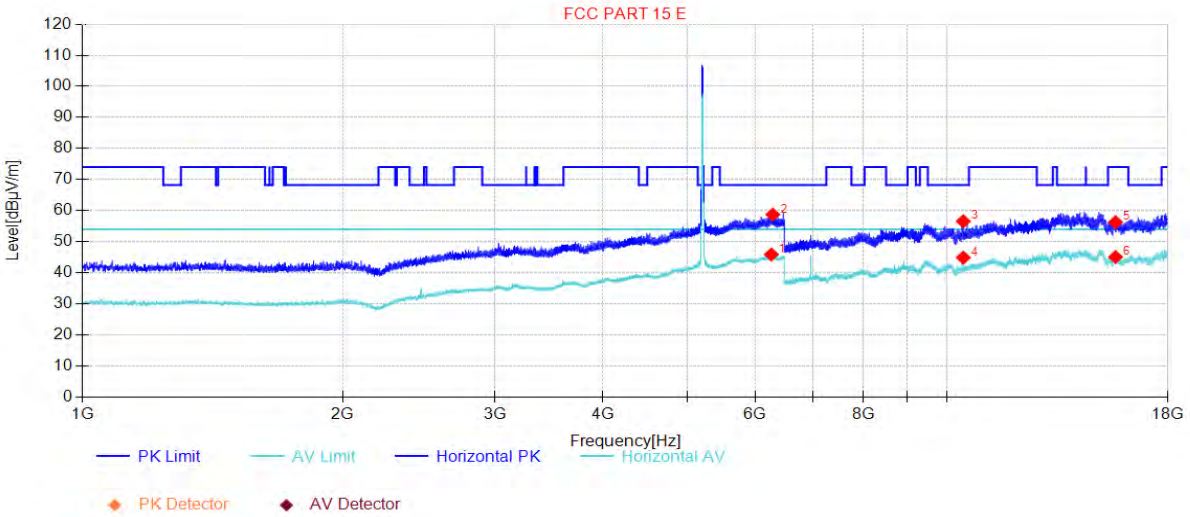
4.9.2.3 802.11A_Channel 44

Test Graph



Suspected List

Suspected List							
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1	6262.384	45.85	18.30	54.00	8.15	142	Horizontal
2	6287.319	58.70	18.42	68.20	9.50	162	Horizontal
3	10440.00	56.55	2.46	68.20	11.65	177	Horizontal
4	10440.00	44.84	2.46	54.00	9.16	151	Horizontal
5	15660.00	56.25	6.12	74.00	17.75	181	Horizontal
6	15660.00	45.04	6.12	54.00	8.96	139	Horizontal

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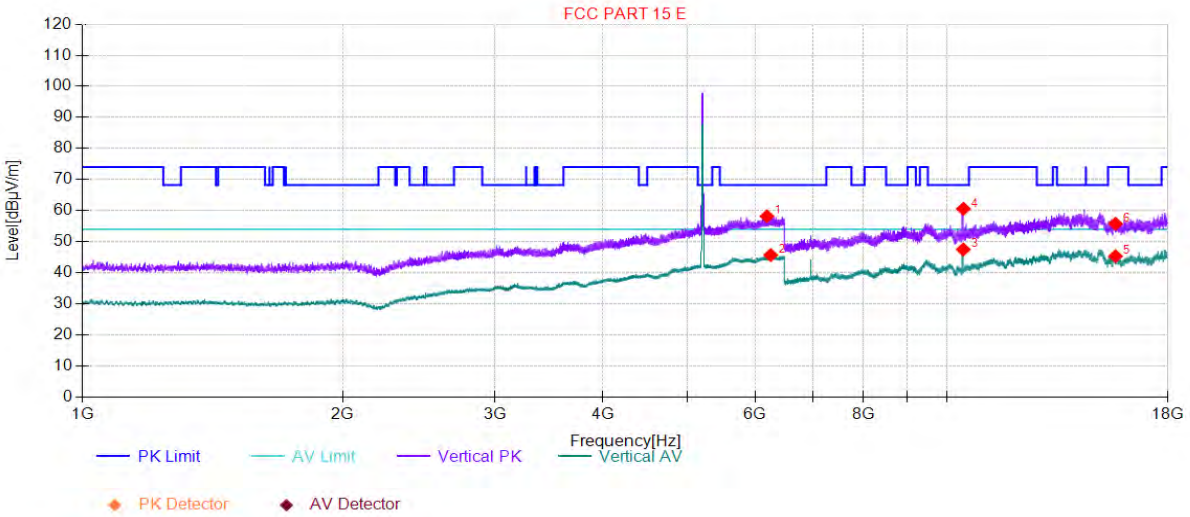
4.9.2.4 802.11A_Channel 44

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6189.779	58.14	17.98	68.20	10.06	252	Vertical
2	6251.750	45.65	18.25	54.00	8.35	241	Vertical
3	10440.00	47.48	2.46	54.00	6.52	233	Vertical
4	10443.27	60.56	2.46	68.20	7.64	244	Vertical
5	15660.00	45.29	6.12	54.00	8.71	268	Vertical
6	15660.00	55.75	6.12	74.00	18.25	314	Vertical

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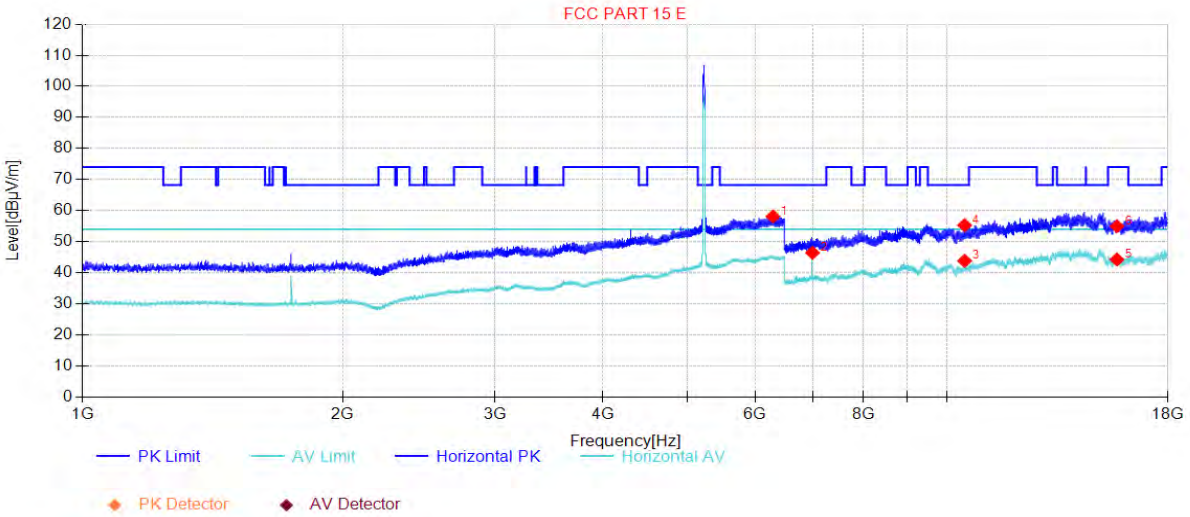
4.9.2.5 802.11A_Channel 48

Test Graph



Suspected List

Suspected List							
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1	6290.252	58.09	18.44	68.20	10.11	166	Horizontal
2	6987.159	46.41	-4.02	54.00	7.59	142	Horizontal
3	10480.00	43.80	2.49	54.00	10.20	178	Horizontal
4	10480.00	55.27	2.49	68.20	12.93	183	Horizontal
5	15720.00	44.23	5.92	54.00	9.77	159	Horizontal
6	15720.00	54.95	5.92	74.00	19.05	133	Horizontal

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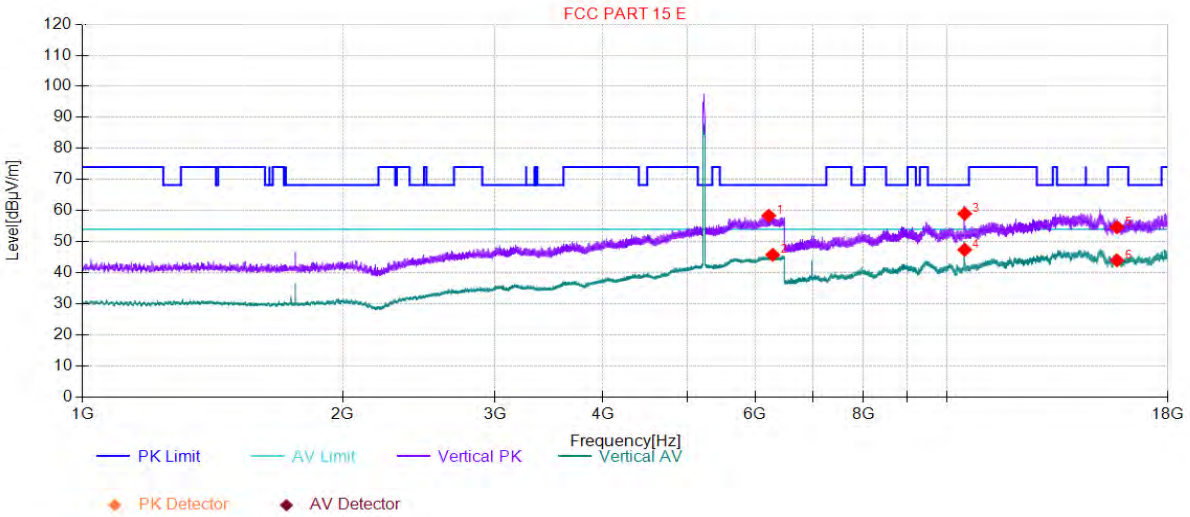
4.9.2.6 802.11A_Channel 48

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6219.481	58.36	18.09	68.20	9.84	266	Vertical
2	6284.752	45.76	18.41	54.00	8.24	247	Vertical
3	10480.00	58.98	2.49	68.20	9.22	235	Vertical
4	10480.00	47.38	2.49	54.00	6.62	206	Vertical
5	15720.00	54.63	5.92	74.00	19.37	288	Vertical
6	15720.00	43.96	5.92	54.00	10.04	301	Vertical

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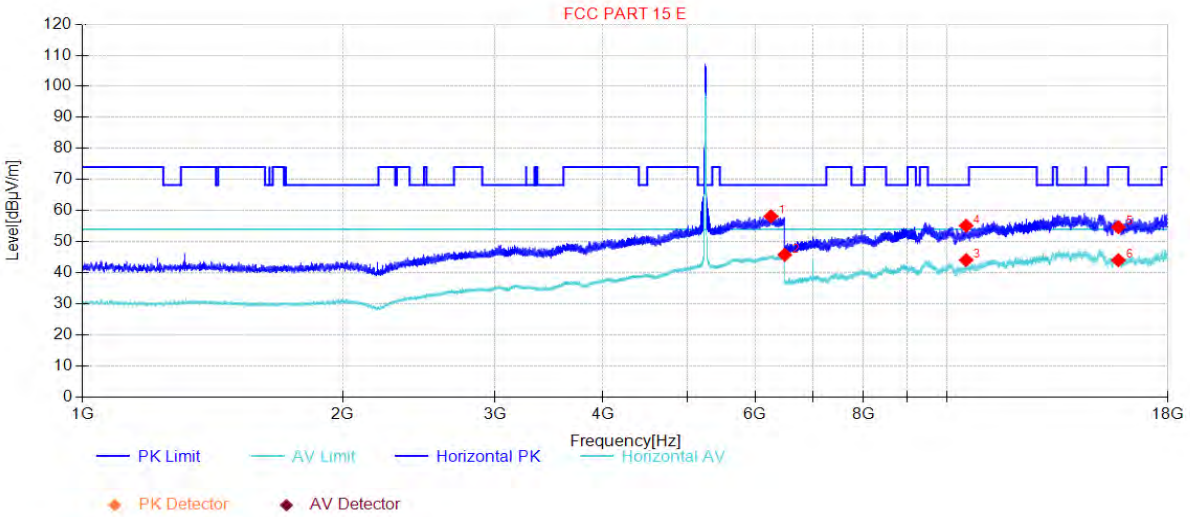
4.9.2.7 802.11A_Channel 52

Test Graph



Suspected List

Suspected List							
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1	6256.150	58.14	18.27	68.20	10.06	182	Horizontal
2	6488.999	45.75	18.65	54.00	8.25	155	Horizontal
3	10520.00	44.06	2.45	54.00	9.94	162	Horizontal
4	10520.00	55.12	2.45	68.20	13.08	177	Horizontal
5	15780.00	54.66	5.30	74.00	19.34	192	Horizontal
6	15780.00	44.02	5.30	54.00	9.98	149	Horizontal

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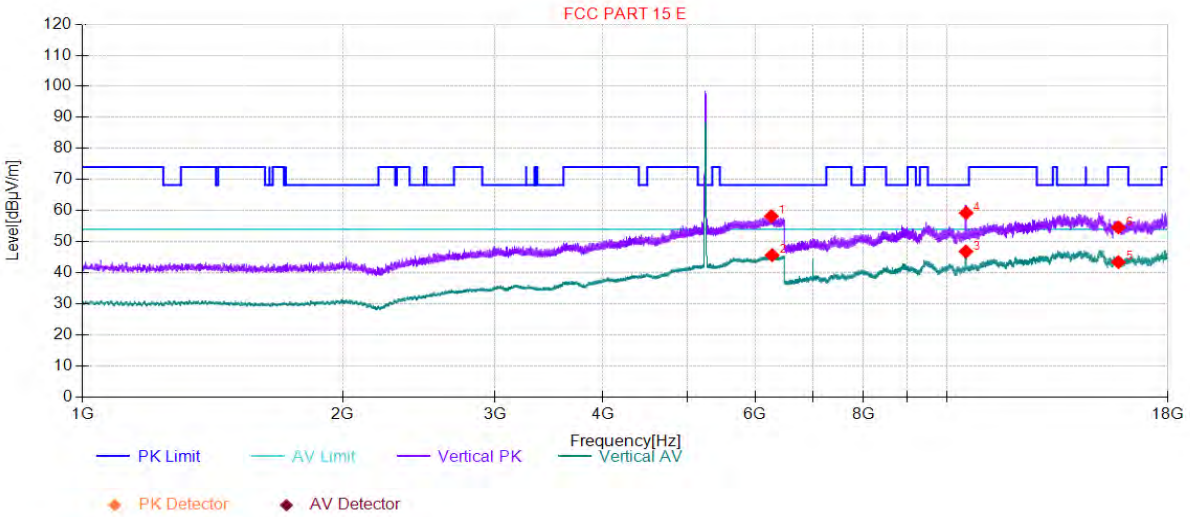
4.9.2.8 802.11A_Channel 52

Test Graph



Suspected List

Suspected List							
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1	6263.117	58.16	18.31	68.20	10.04	263	Vertical
2	6274.485	45.64	18.36	54.00	8.36	275	Vertical
3	10515.04	46.79	2.46	54.00	7.21	222	Vertical
4	10520.00	59.21	2.45	68.20	8.99	216	Vertical
5	15780.00	43.39	5.30	54.00	10.61	241	Vertical
6	15780.00	54.59	5.30	74.00	19.41	292	Vertical

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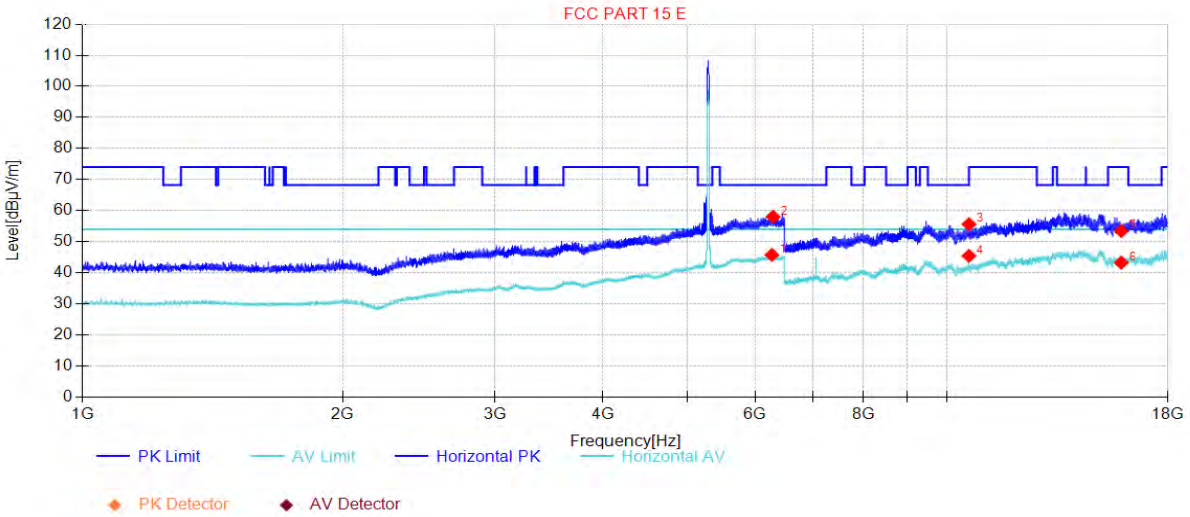
4.9.2.9 802.11A_Channel 60

Test Graph



Suspected List

Suspected List							
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1	6271.918	45.74	18.35	54.00	8.26	174	Horizontal
2	6291.719	58.01	18.44	68.20	10.19	160	Horizontal
3	10600.00	55.59	2.23	74.00	18.41	199	Horizontal
4	10600.00	45.42	2.23	54.00	8.58	182	Horizontal
5	15900.00	53.44	5.29	74.00	20.56	203	Horizontal
6	15900.00	43.25	5.29	54.00	10.75	155	Horizontal

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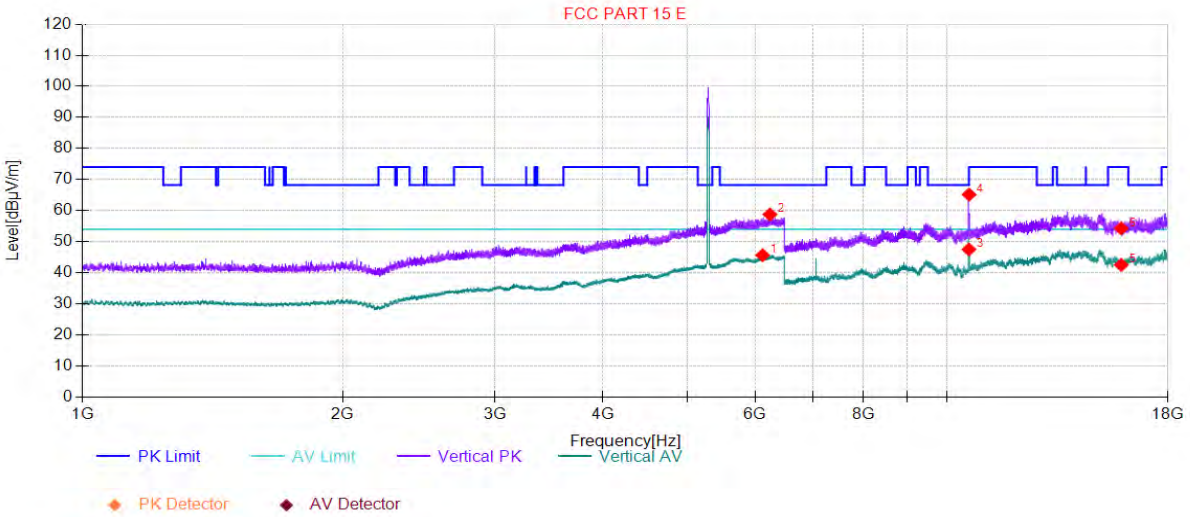
4.9.2.10 802.11A_Channel 60

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6119.007	45.62	17.82	54.00	8.38	209	Vertical
2	6238.915	58.74	18.19	68.20	9.46	244	Vertical
3	10600.00	47.50	2.23	54.00	6.50	198	Vertical
4	10603.36	65.16	2.23	74.00	8.84	226	Vertical
5	15900.00	42.51	5.29	54.00	11.49	256	Vertical
6	15900.00	54.27	5.29	74.00	19.73	311	Vertical

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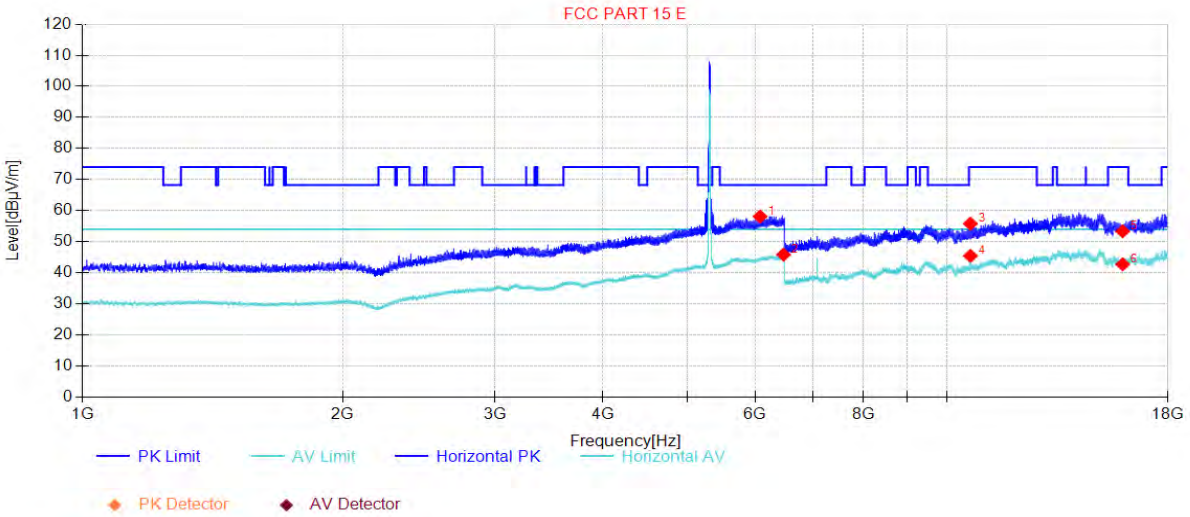
4.9.2.11 802.11A_Channel 64

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6077.205	58.07	17.67	68.20	10.13	174	Horizontal
2	6469.197	45.82	18.54	54.00	8.18	166	Horizontal
3	10640.00	55.79	2.22	74.00	18.21	185	Horizontal
4	10640.00	45.41	2.22	54.00	8.59	155	Horizontal
5	15960.00	53.33	5.01	74.00	20.67	141	Horizontal
6	15960.00	42.70	5.01	54.00	11.30	122	Horizontal

Final Data List

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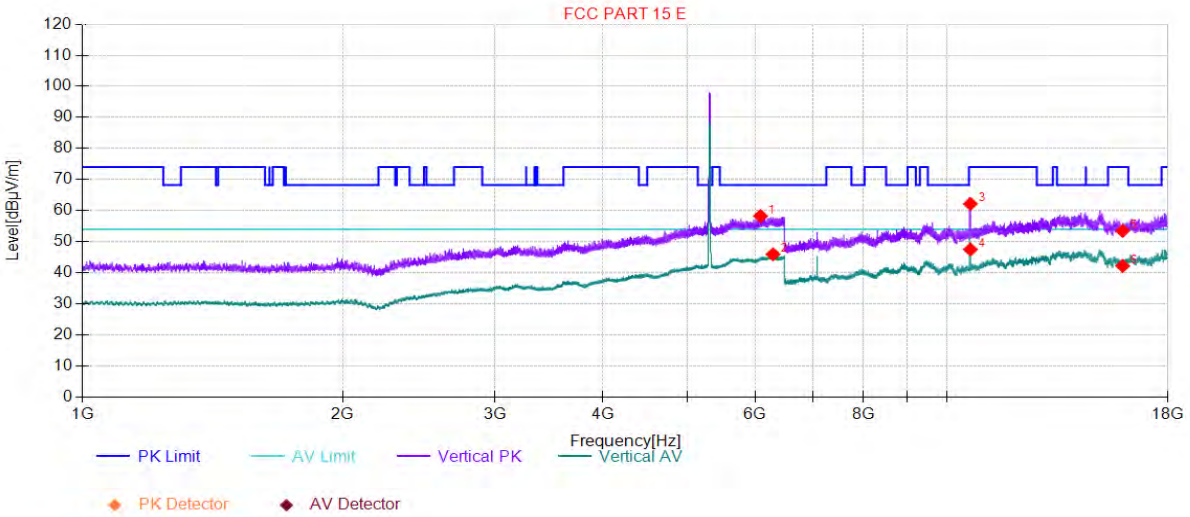
4.9.2.12 802.11A_Channel 64

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6084.172	58.23	17.70	68.20	9.97	262	Vertical
2	6289.152	45.92	18.43	54.00	8.08	255	Vertical
3	10640.00	62.18	2.22	74.00	11.82	216	Vertical
4	10640.00	47.47	2.22	54.00	6.53	203	Vertical
5	15960.00	53.48	5.01	74.00	20.52	362	Vertical
6	15960.00	42.19	5.01	54.00	11.81	211	Vertical

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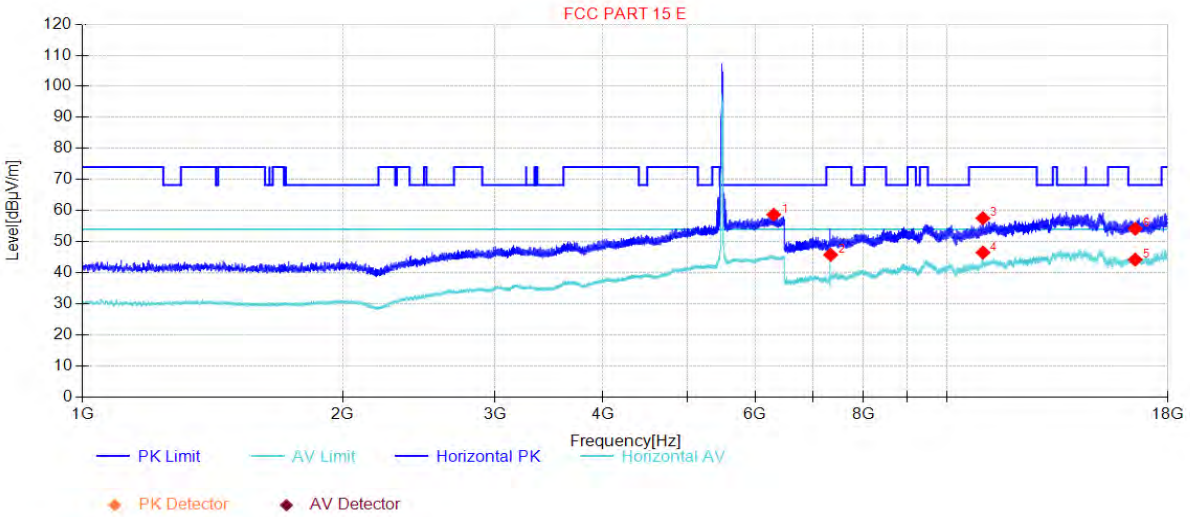
4.9.2.13 802.11A_Channel 100

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6301.253	58.71	18.48	68.20	9.49	144	Horizontal
2	7334.013	45.74	-2.91	54.00	8.26	123	Horizontal
3	11000.00	57.55	2.74	74.00	16.45	187	Horizontal
4	11000.00	46.49	2.74	54.00	7.51	162	Horizontal
5	16500.00	44.18	5.09	54.00	9.82	155	Horizontal
6	16500.00	54.12	5.09	68.20	14.08	178	Horizontal

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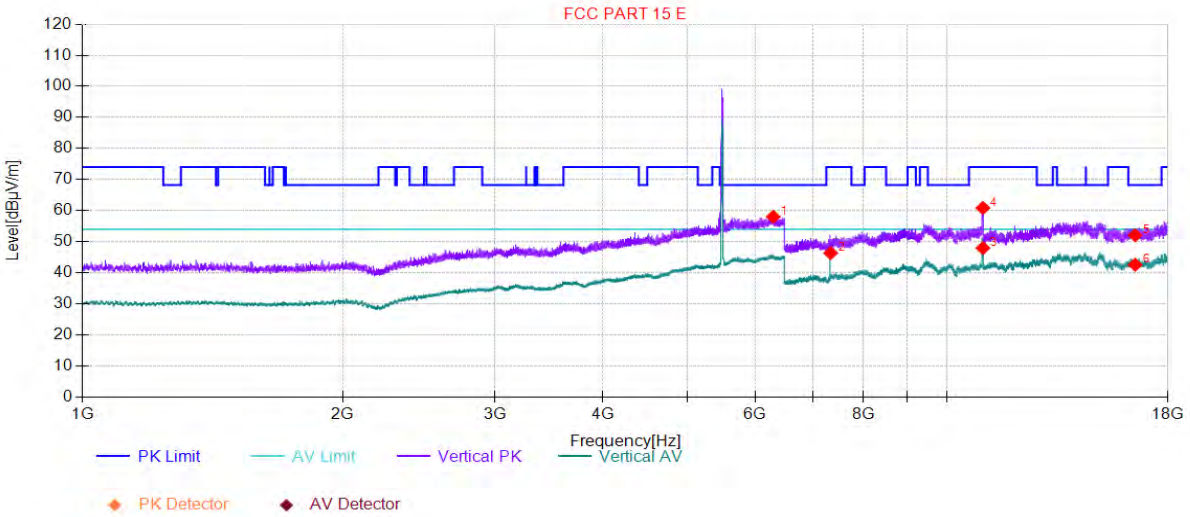
4.9.2.14 802.11A_Channel 100

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6295.386	58.02	18.46	68.20	10.18	382	Vertical
2	7333.553	46.32	-2.91	54.00	7.68	235	Vertical
3	10999.44	47.93	2.74	54.00	6.07	241	Vertical
4	11000.82	60.85	2.74	74.00	13.15	252	Vertical
5	16500.00	52.06	5.09	68.20	16.14	268	Vertical
6	16500.00	42.55	5.09	54.00	11.45	284	Vertical

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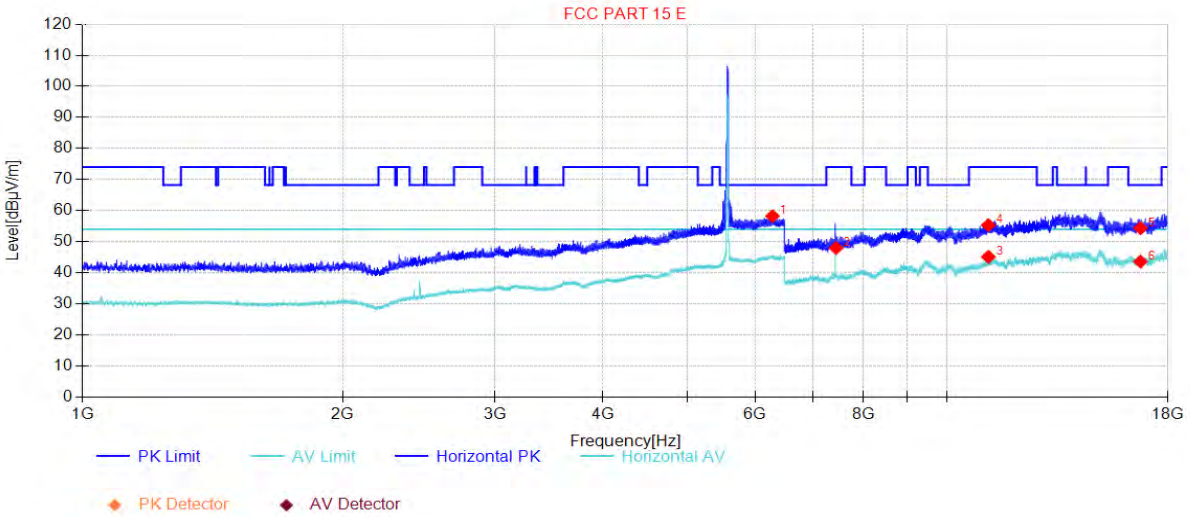
4.9.2.15 802.11A_Channel 116

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6282.185	58.20	18.40	68.20	10.00	166	Horizontal
2	7439.817	47.95	-2.54	54.00	6.05	174	Horizontal
3	11160.00	45.10	2.54	54.00	8.90	122	Horizontal
4	11160.00	55.32	2.54	74.00	18.68	151	Horizontal
5	16740.00	54.33	5.53	68.20	13.87	133	Horizontal
6	16740.00	43.56	5.53	54.00	10.44	109	Horizontal

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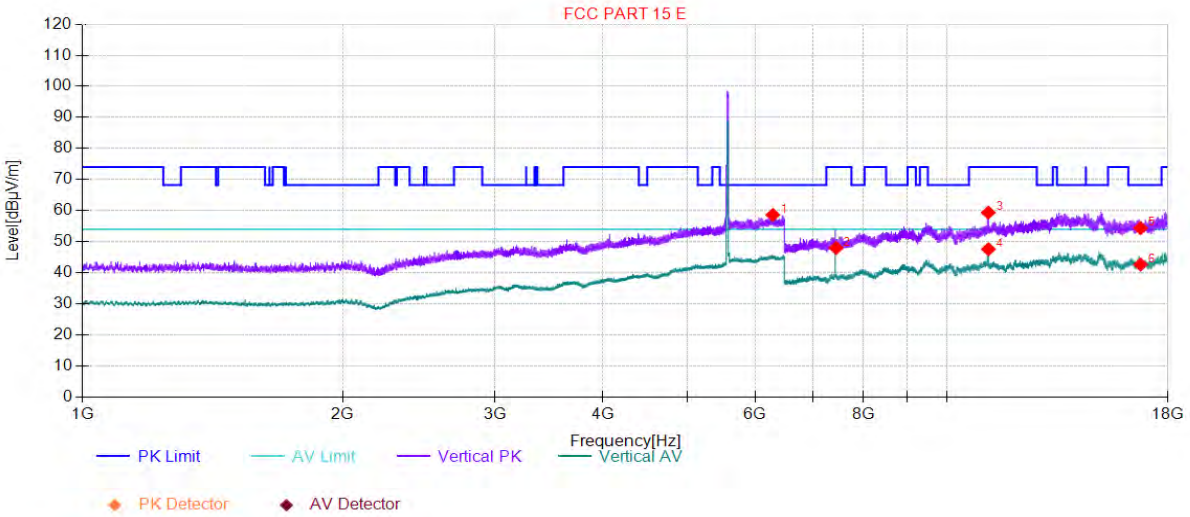
4.9.2.16 802.11A_Channel 116

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6286.952	58.61	18.42	68.20	9.59	382	Vertical
2	7440.737	47.93	-2.54	54.00	6.07	222	Vertical
3	11160.00	59.36	2.54	74.00	14.64	264	Vertical
4	11160.00	47.55	2.54	54.00	6.45	226	Vertical
5	16740.00	54.36	5.53	68.20	13.84	285	Vertical
6	16740.00	42.62	5.53	54.00	11.38	233	Vertical

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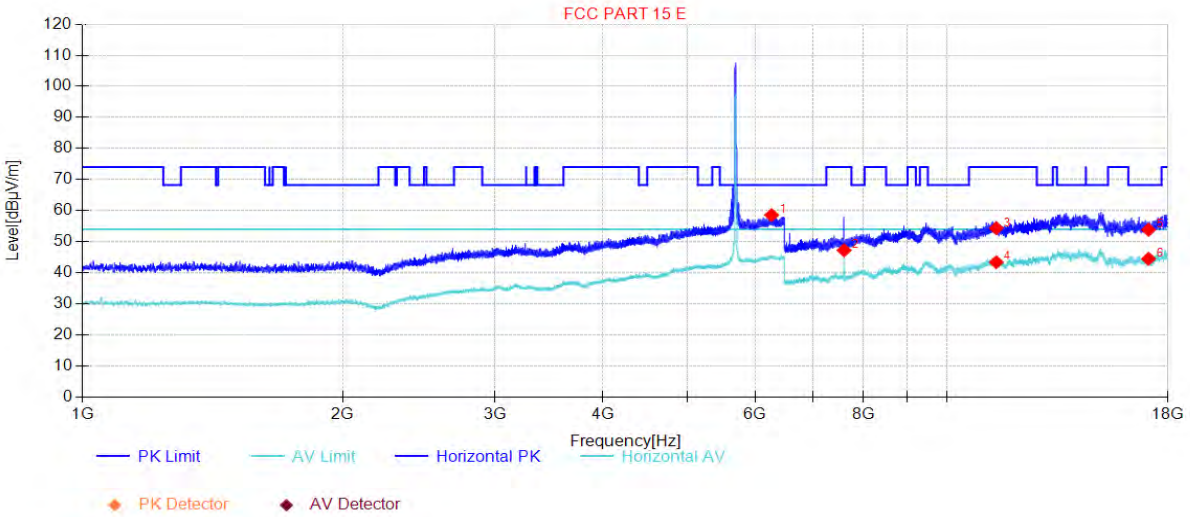
4.9.2.17 802.11A_Channel 140

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6266.784	58.54	18.32	68.20	9.66	162	Horizontal
2	7600.824	47.23	-2.87	54.00	6.77	144	Horizontal
3	11400.00	54.33	2.54	74.00	19.67	151	Horizontal
4	11400.00	43.38	2.54	54.00	10.62	122	Horizontal
5	17100.00	53.81	5.72	68.20	14.39	195	Horizontal
6	17100.00	44.47	5.72	54.00	9.53	188	Horizontal

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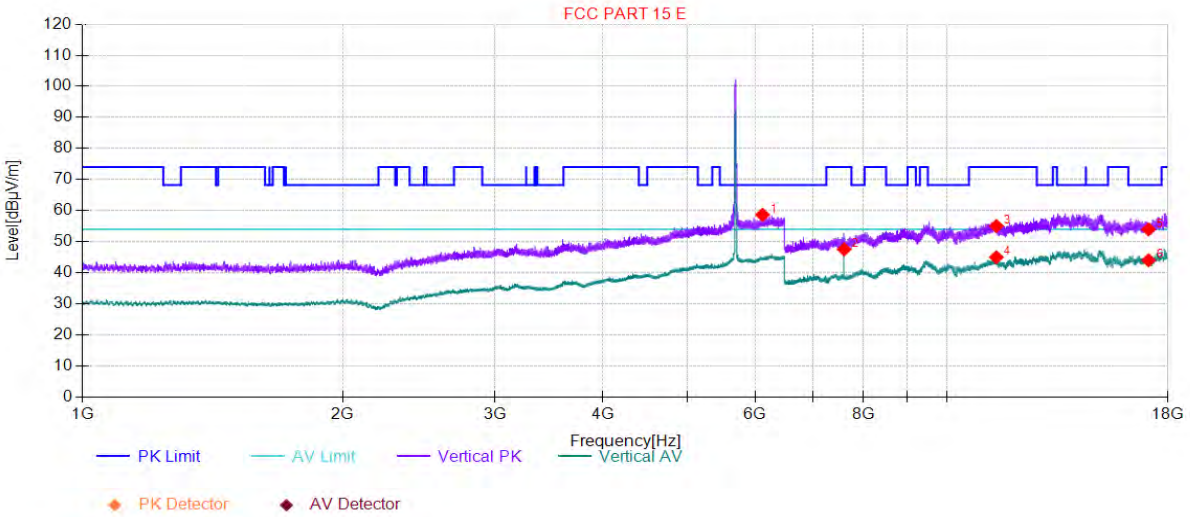
4.9.2.18 802.11A_Channel 140

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6117.174	58.64	17.81	68.20	9.56	263	Vertical
2	7600.824	47.50	-2.87	54.00	6.50	231	Vertical
3	11400.00	55.03	2.54	74.00	18.97	255	Vertical
4	11400.00	44.96	2.54	54.00	9.04	244	Vertical
5	17100.00	53.95	5.72	68.20	14.25	291	Vertical
6	17100.00	44.01	5.72	54.00	9.99	255	Vertical

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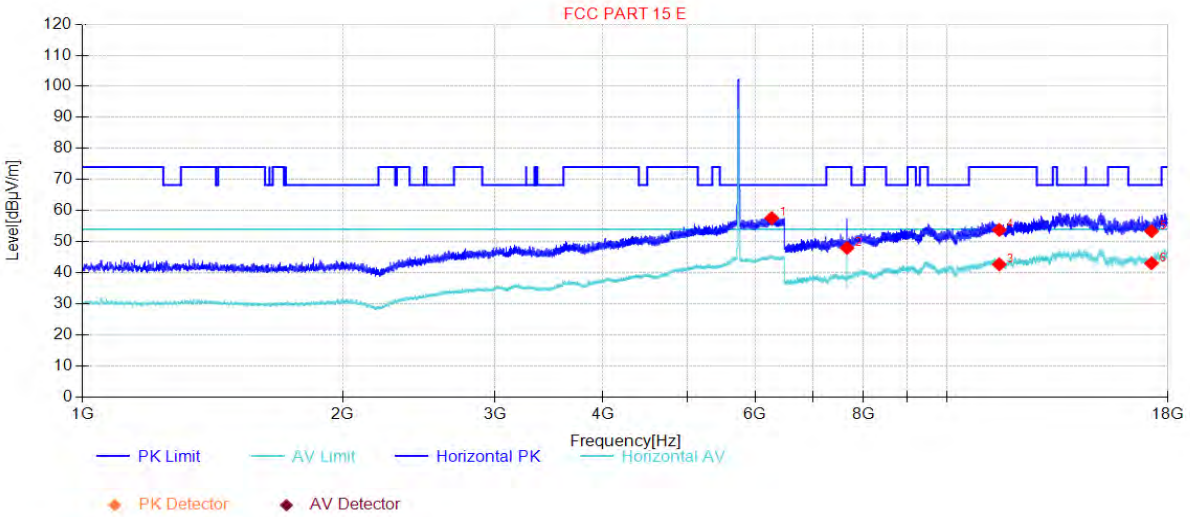
4.9.2.19 802.11A_Channel 149

Test Graph



Suspected List

Suspected List							
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1	6270.818	57.58	18.34	68.20	10.62	178	Horizontal
2	7661.086	47.92	-2.36	54.00	6.08	162	Horizontal
3	11490.00	42.69	2.10	54.00	11.31	177	Horizontal
4	11490.00	53.77	2.10	74.00	20.23	155	Horizontal
5	17235.00	53.37	6.10	68.20	14.83	126	Horizontal
6	17235.00	43.00	6.10	54.00	11.00	106	Horizontal

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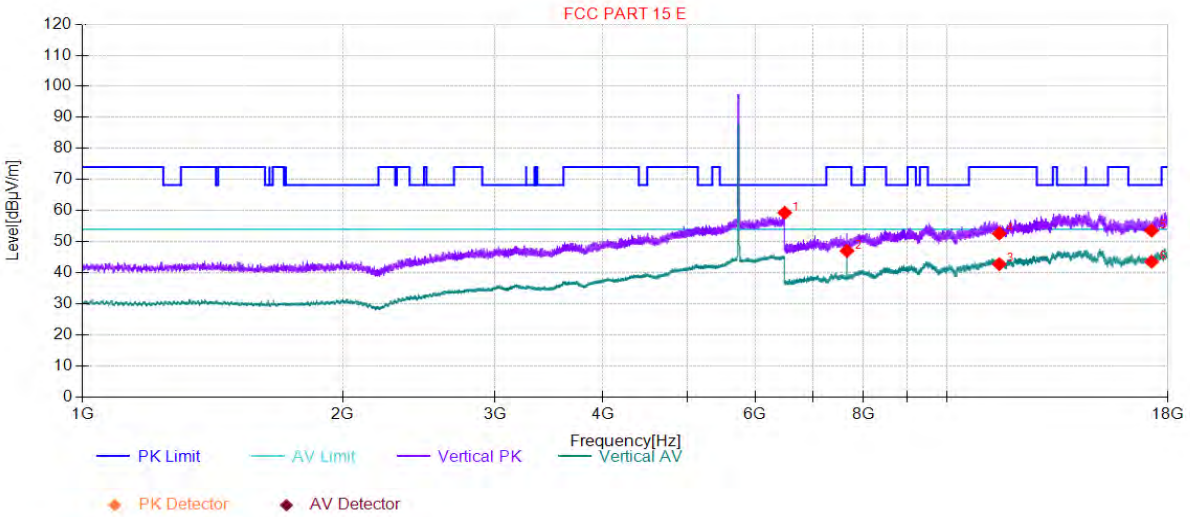
4.9.2.20 802.11A_Channel 149

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6488.999	59.31	18.65	68.20	8.89	285	Vertical
2	7660.626	47.02	-2.36	54.00	6.98	255	Vertical
3	11490.00	42.77	2.10	54.00	11.23	262	Vertical
4	11490.00	52.59	2.10	74.00	21.41	212	Vertical
5	17235.00	53.55	6.10	68.20	14.65	301	Vertical
6	17235.00	43.54	6.10	54.00	10.46	244	Vertical

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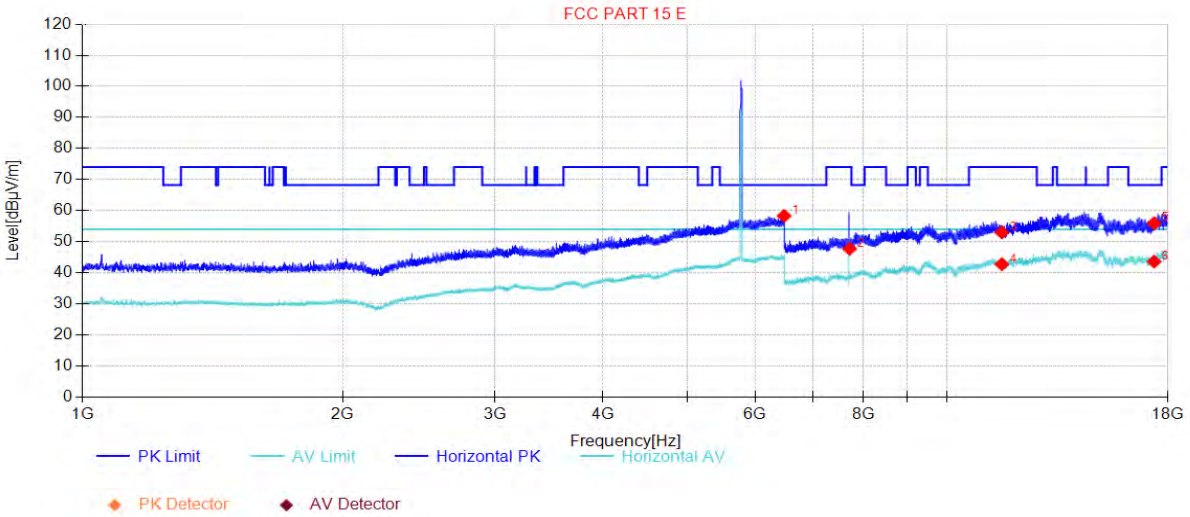
4.9.2.21 802.11A_Channel 157

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6480.198	58.29	18.61	68.20	9.91	122	Horizontal
2	7713.988	47.69	-1.96	54.00	6.31	174	Horizontal
3	11570.00	52.94	2.92	74.00	21.06	162	Horizontal
4	11570.00	42.73	2.92	54.00	11.27	185	Horizontal
5	17355.00	55.91	6.75	68.20	12.29	152	Horizontal
6	17355.00	43.58	6.75	54.00	10.42	144	Horizontal

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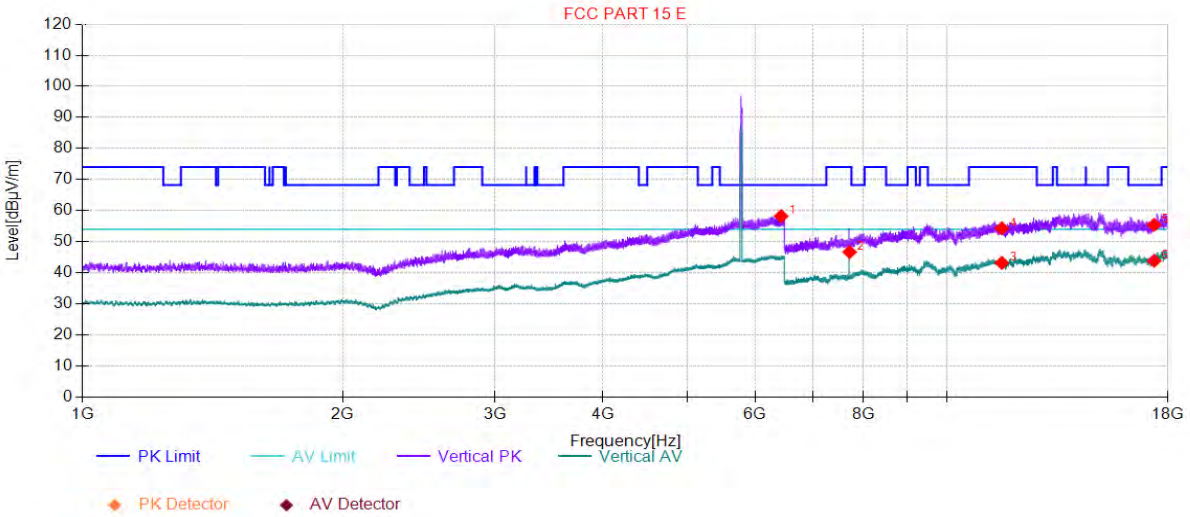
4.9.2.22 802.11A_Channel 157

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6427.761	58.19	18.31	68.20	10.01	216	Vertical
2	7713.528	46.65	-1.96	54.00	7.35	208	Vertical
3	11570.00	43.14	2.92	54.00	10.86	288	Vertical
4	11570.00	54.27	2.92	74.00	19.73	266	Vertical
5	17355.00	55.39	6.75	68.20	12.81	274	Vertical
6	17355.00	43.83	6.75	54.00	10.17	301	Vertical

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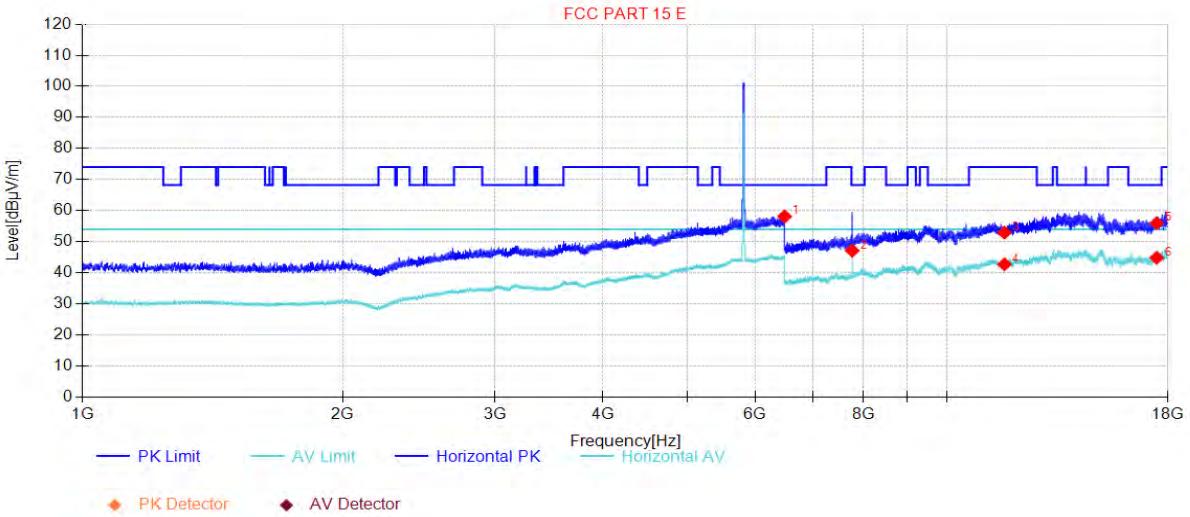
4.9.2.23 802.11A_Channel 165

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6486.799	58.12	18.64	68.20	10.08	173	Horizontal
2	7767.350	47.10	-1.69	54.00	6.90	166	Horizontal
3	11650.00	52.91	2.58	74.00	21.09	151	Horizontal
4	11650.00	42.69	2.58	54.00	11.31	122	Horizontal
5	17475.00	55.95	7.42	68.20	12.25	130	Horizontal
6	17475.00	44.80	7.42	54.00	9.20	148	Horizontal

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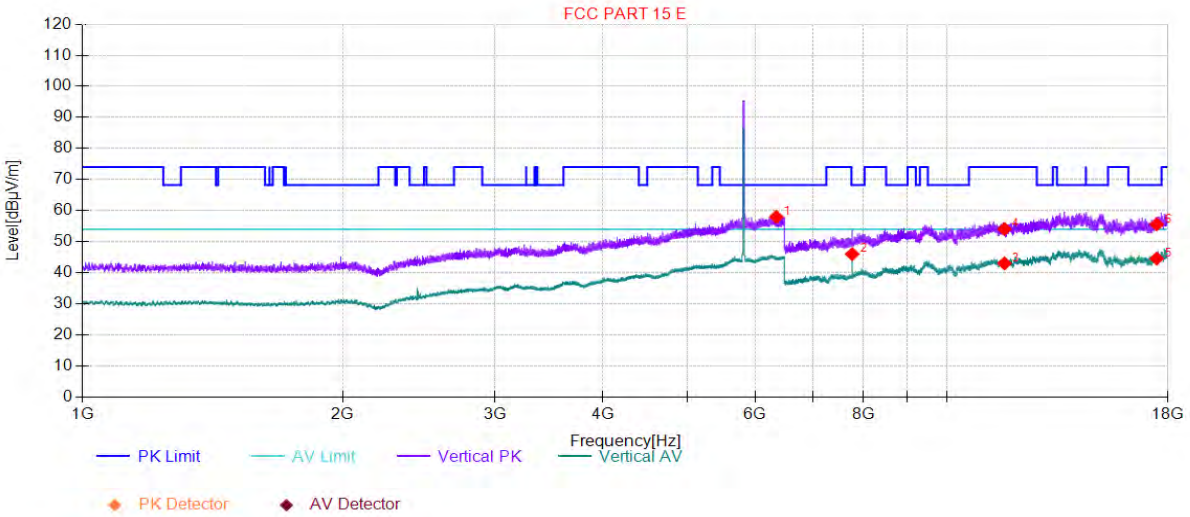
4.9.2.24 802.11A_Channel 165

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6346.723	57.96	18.33	68.20	10.24	265	Vertical
2	7766.890	45.99	-1.69	54.00	8.01	264	Vertical
3	11650.00	42.98	2.58	54.00	11.02	231	Vertical
4	11650.00	54.05	2.58	74.00	19.95	306	Vertical
5	17475.00	44.56	7.42	54.00	9.44	311	Vertical
6	17475.00	55.55	7.42	68.20	12.65	285	Vertical

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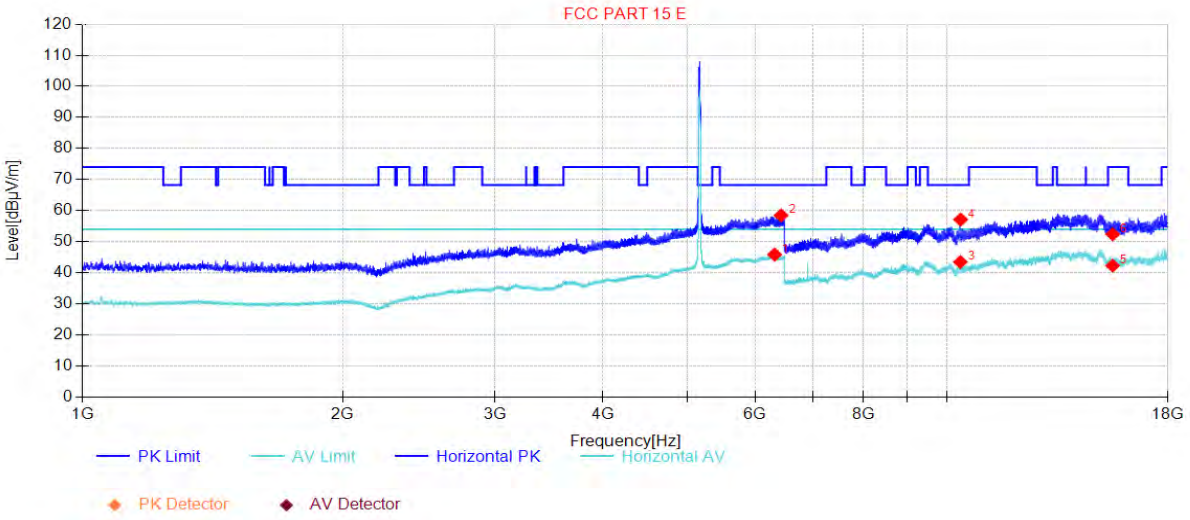
4.9.2.25 802.11N20_Channel 36

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6315.921	45.84	18.43	54.00	8.16	174	Horizontal
2	6427.028	58.46	18.31	68.20	9.74	162	Horizontal
3	10360.00	43.44	2.38	54.00	10.56	151	Horizontal
4	10365.07	57.11	2.39	68.20	11.09	192	Horizontal
5	15540.00	42.30	5.88	54.00	11.70	122	Horizontal
6	15540.00	52.38	5.88	74.00	21.62	188	Horizontal

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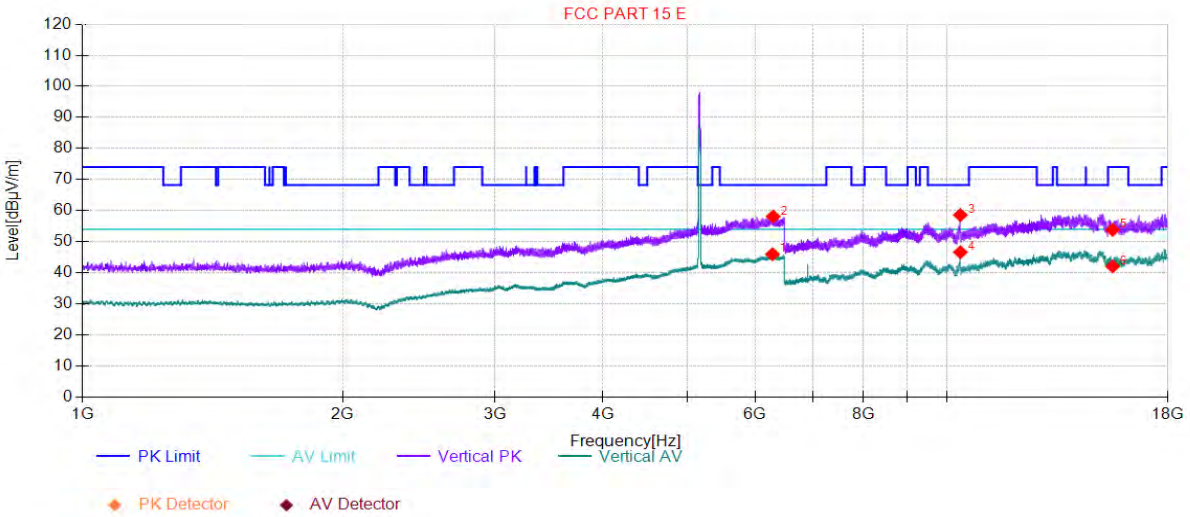
4.9.2.26 802.11N20_Channel 36

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6281.085	45.94	18.39	54.00	8.06	285	Vertical
2	6292.452	58.08	18.45	68.20	10.12	255	Vertical
3	10360.00	58.56	2.38	68.20	9.64	262	Vertical
4	10360.00	46.60	2.38	54.00	7.40	217	Vertical
5	15540.00	53.78	5.88	74.00	20.22	292	Vertical
6	15540.00	42.06	5.88	54.00	11.94	241	Vertical

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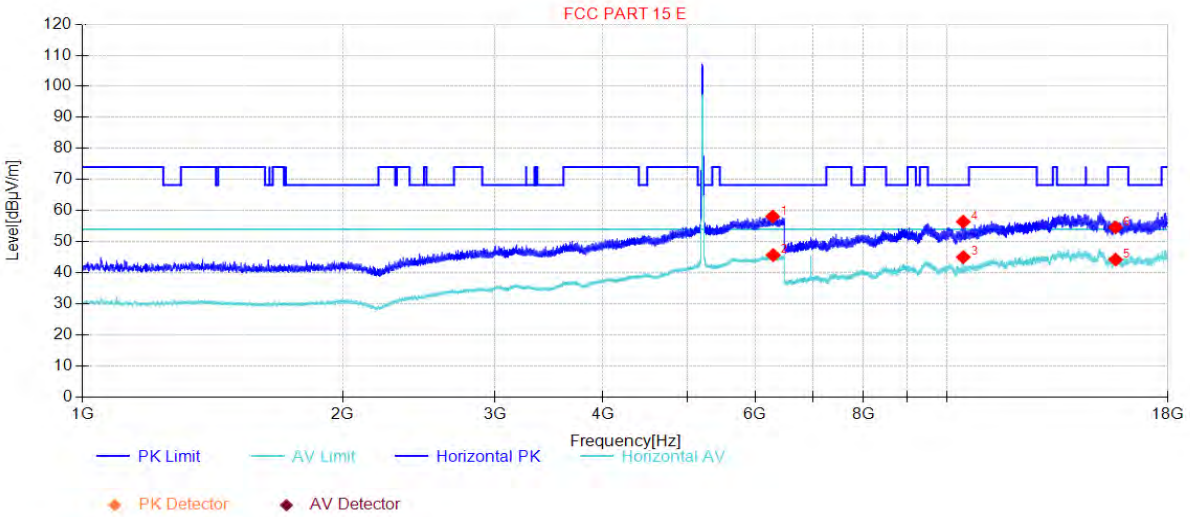
4.9.2.27 802.11N20_Channel 44

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6285.485	58.08	18.41	68.20	10.12	135	Horizontal
2	6294.653	45.64	18.46	54.00	8.36	148	Horizontal
3	10440.00	45.01	2.46	54.00	8.99	155	Horizontal
4	10440.00	56.41	2.46	68.20	11.79	162	Horizontal
5	15660.00	44.20	6.12	54.00	9.80	158	Horizontal
6	15660.00	54.59	6.12	74.00	19.41	191	Horizontal

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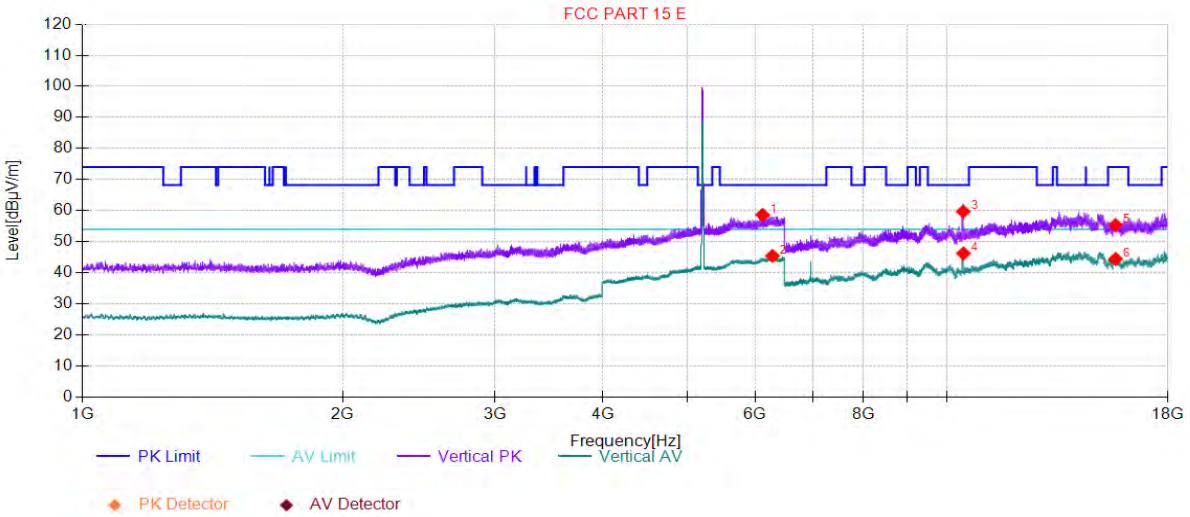
4.9.2.28 802.11N20_Channel 44

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6118.641	58.59	17.82	68.20	9.61	281	Vertical
2	6281.085	45.38	18.39	54.00	8.62	262	Vertical
3	10440.00	59.69	2.46	68.20	8.51	274	Vertical
4	10445.11	46.19	2.46	54.00	7.81	231	Vertical
5	15660.00	55.35	6.12	74.00	18.65	298	Vertical
6	15660.00	44.41	6.12	54.00	9.59	257	Vertical

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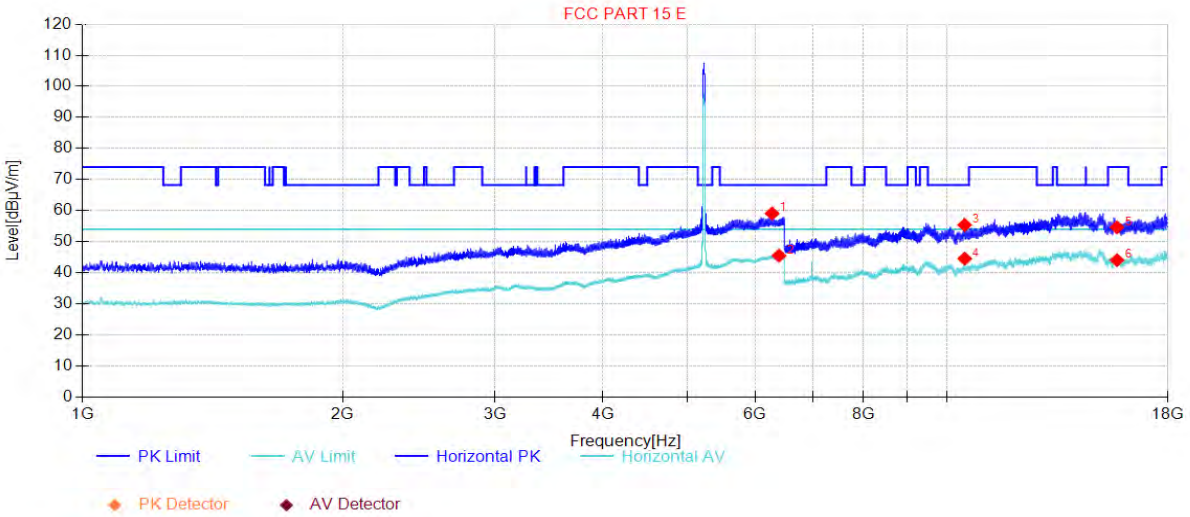
4.9.2.29 802.11N20_Channel 48

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6276.318	59.05	18.37	68.20	9.15	178	Horizontal
2	6391.092	45.48	18.19	54.00	8.52	162	Horizontal
3	10480.00	55.35	2.49	68.20	12.85	177	Horizontal
4	10480.00	44.51	2.49	54.00	9.49	182	Horizontal
5	15720.00	54.62	5.92	74.00	19.38	122	Horizontal
6	15720.00	44.03	5.92	54.00	9.97	196	Horizontal

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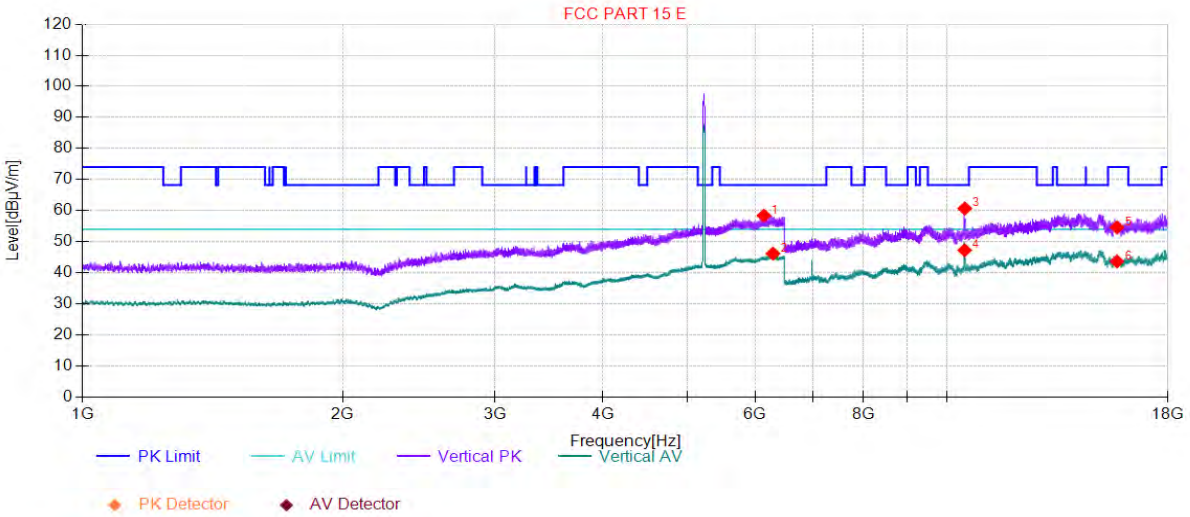
4.9.2.30 802.11N20_Channel 48

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6140.276	58.37	17.87	68.20	9.83	222	Vertical
2	6288.785	46.12	18.43	54.00	7.88	231	Vertical
3	10480.00	60.66	2.49	68.20	7.54	208	Vertical
4	10480.00	47.21	2.49	54.00	6.79	255	Vertical
5	15720.00	54.61	5.92	74.00	19.39	277	Vertical
6	15720.00	43.64	5.92	54.00	10.36	298	Vertical

Final Data List

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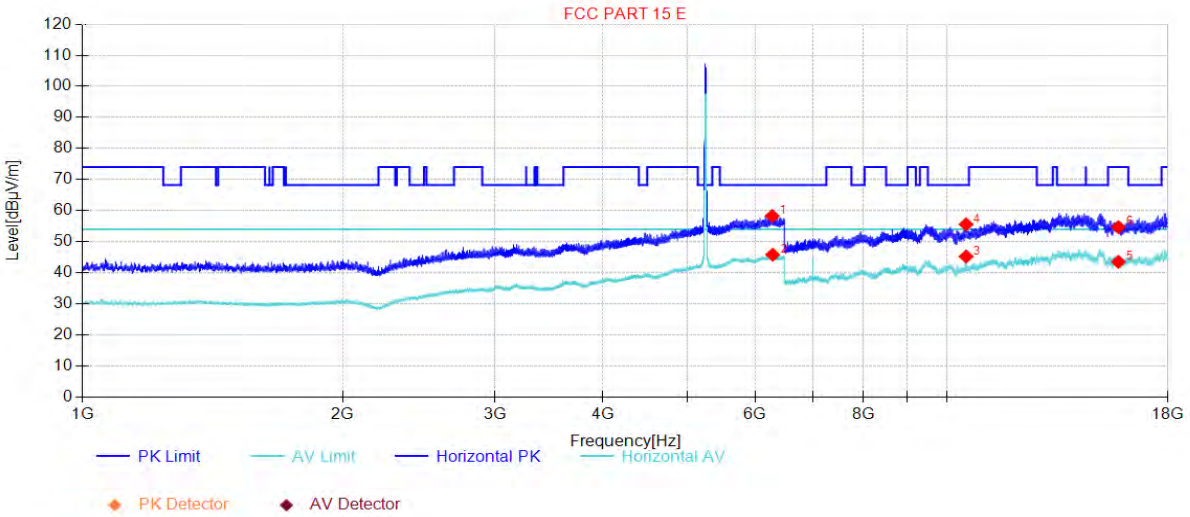
4.9.2.31 802.11N20_Channel 52

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6277.051	58.25	18.37	68.20	9.95	177	Horizontal
2	6284.385	45.80	18.41	54.00	8.20	162	Horizontal
3	10520.00	45.21	2.45	54.00	8.79	154	Horizontal
4	10520.00	55.56	2.45	68.20	12.64	188	Horizontal
5	15780.00	43.48	5.30	54.00	10.52	192	Horizontal
6	15780.00	54.66	5.30	74.00	19.34	133	Horizontal

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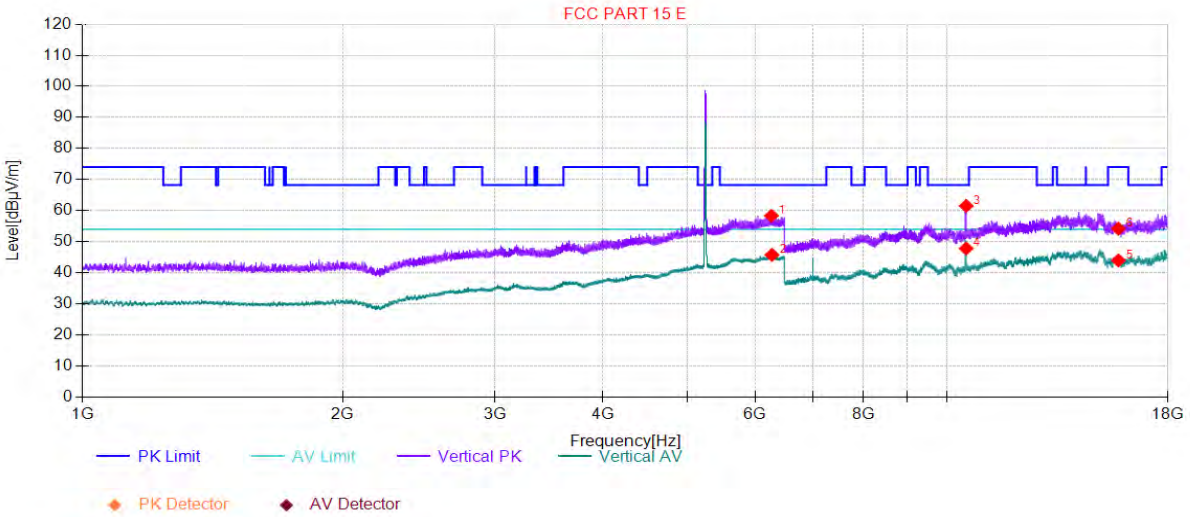
4.9.2.32 802.11N20_Channel 52

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6265.317	58.34	18.32	68.20	9.86	285	Vertical
2	6272.284	45.72	18.35	54.00	8.28	261	Vertical
3	10520.00	61.50	2.45	68.20	6.70	199	Vertical
4	10520.10	47.79	2.45	54.00	6.21	233	Vertical
5	15780.00	43.95	5.30	54.00	10.05	385	Vertical
6	15780.00	54.17	5.30	74.00	19.83	274	Vertical

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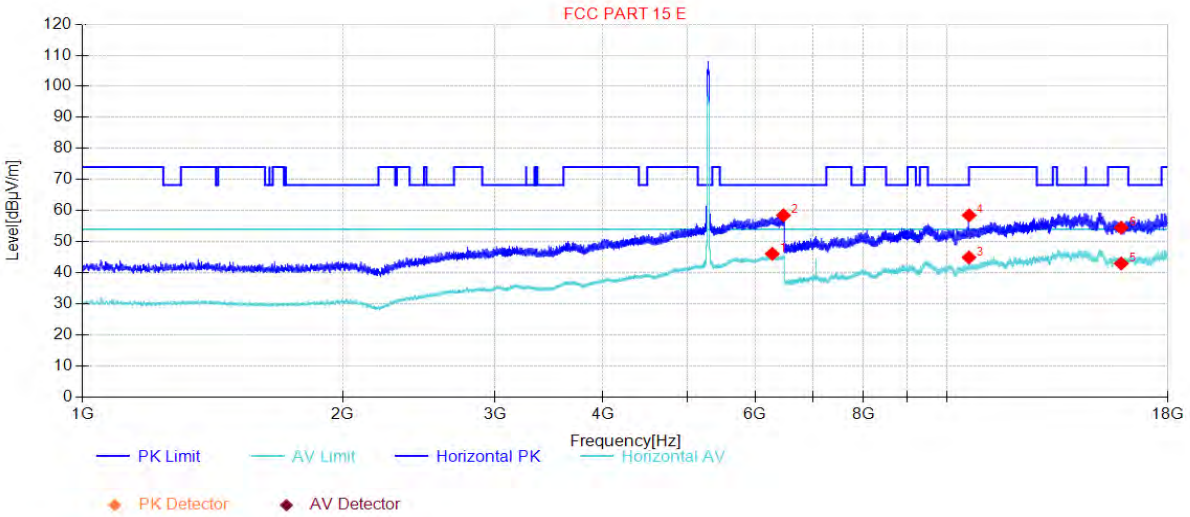
4.9.2.33 802.11N20_Channel 60

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6278.151	46.06	18.38	54.00	7.94	182	Horizontal
2	6466.997	58.47	18.53	68.20	9.73	174	Horizontal
3	10600.00	44.91	2.23	54.00	9.09	155	Horizontal
4	10605.20	58.48	2.23	74.00	15.52	111	Horizontal
5	15900.00	42.94	5.29	54.00	11.06	138	Horizontal
6	15900.00	54.50	5.29	74.00	19.50	166	Horizontal

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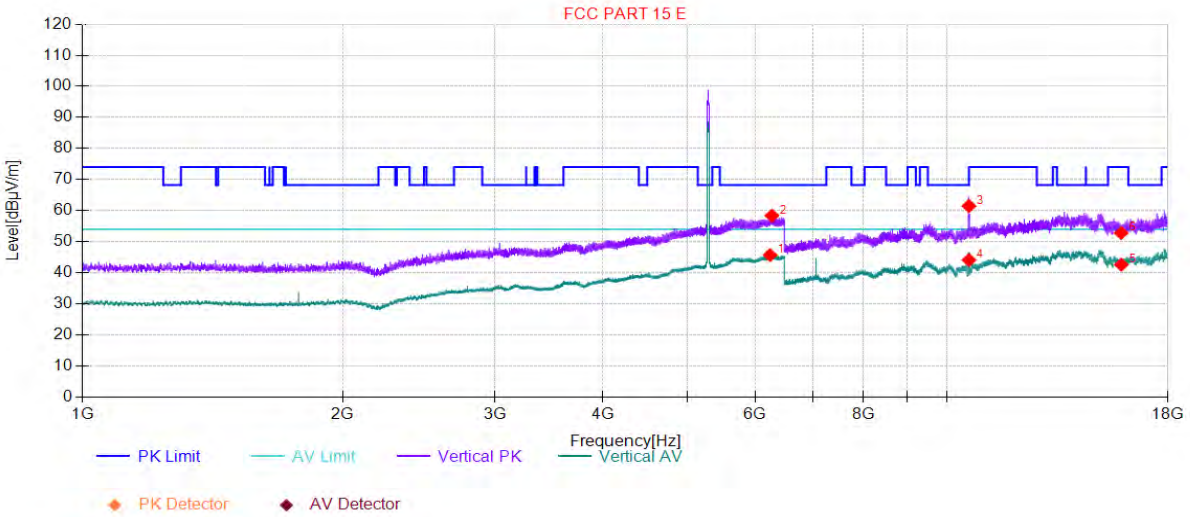
4.9.2.34 802.11N20_Channel 60

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6241.116	45.67	18.20	54.00	8.33	222	Vertical
2	6271.918	58.37	18.35	68.20	9.83	237	Vertical
3	10600.00	61.46	2.23	74.00	12.54	248	Vertical
4	10600.00	44.08	2.23	54.00	9.92	239	Vertical
5	15900.00	42.59	5.29	54.00	11.41	277	Vertical
6	15900.00	52.78	5.29	74.00	21.22	286	Vertical

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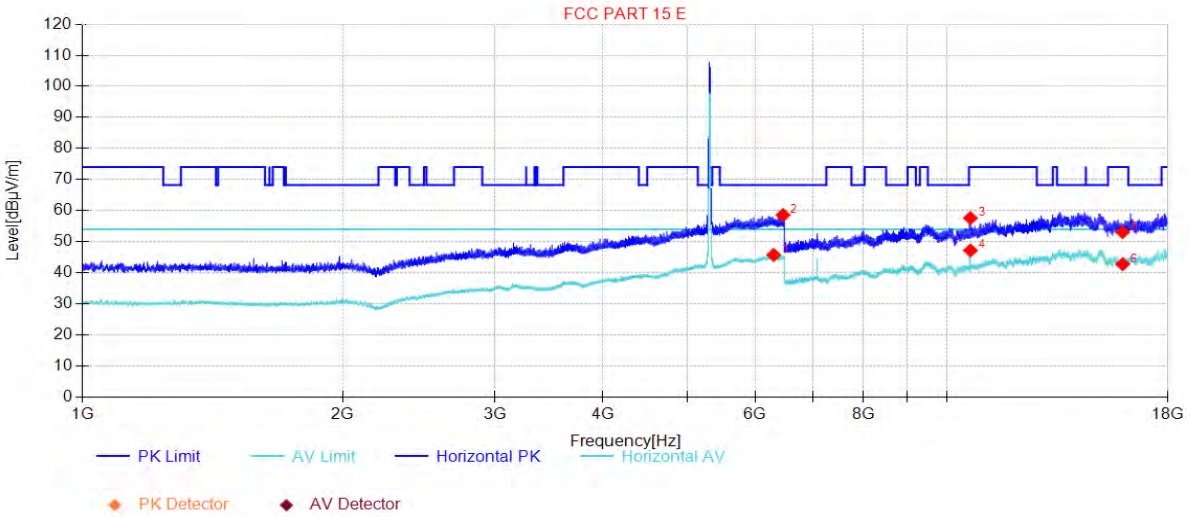
4.9.2.35 802.11N20_Channel 64

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6301.253	45.70	18.48	54.00	8.30	162	Horizontal
2	6459.297	58.54	18.49	68.20	9.66	182	Horizontal
3	10640.00	57.58	2.22	74.00	16.42	155	Horizontal
4	10640.00	47.17	2.22	54.00	6.83	168	Horizontal
5	15960.00	53.05	5.01	74.00	20.95	192	Horizontal
6	15960.00	42.74	5.01	54.00	11.26	111	Horizontal

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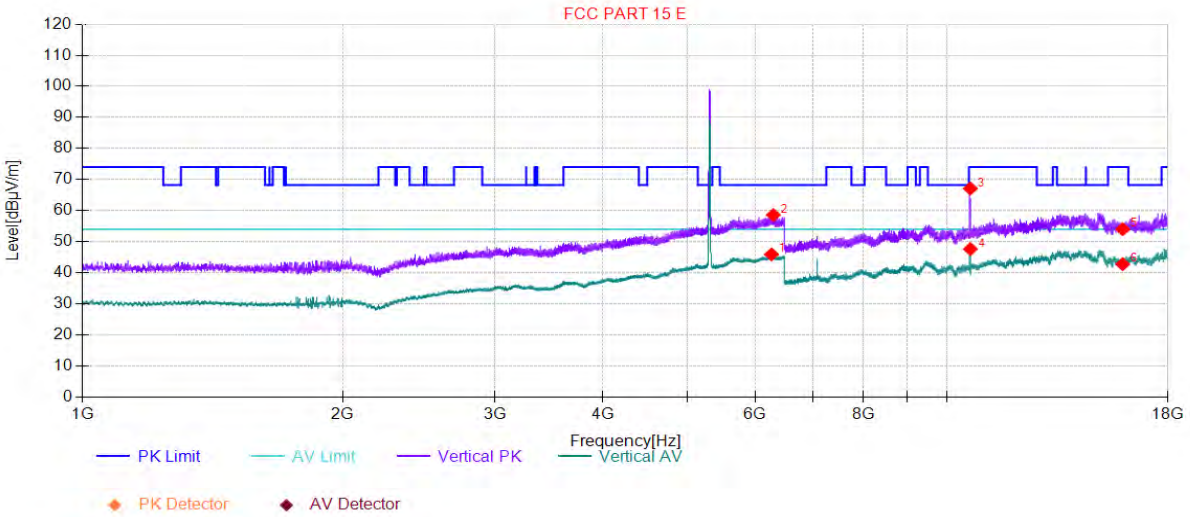
4.9.2.36 802.11N20_Channel 64

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6265.317	45.89	18.32	54.00	8.11	233	Vertical
2	6295.753	58.59	18.46	68.20	9.61	277	Vertical
3	10638.32	67.11	2.22	74.00	6.89	262	Vertical
4	10640.00	47.61	2.22	54.00	6.39	215	Vertical
5	15960.00	54.02	5.01	74.00	19.98	292	Vertical
6	15960.00	42.75	5.01	54.00	11.25	244	Vertical

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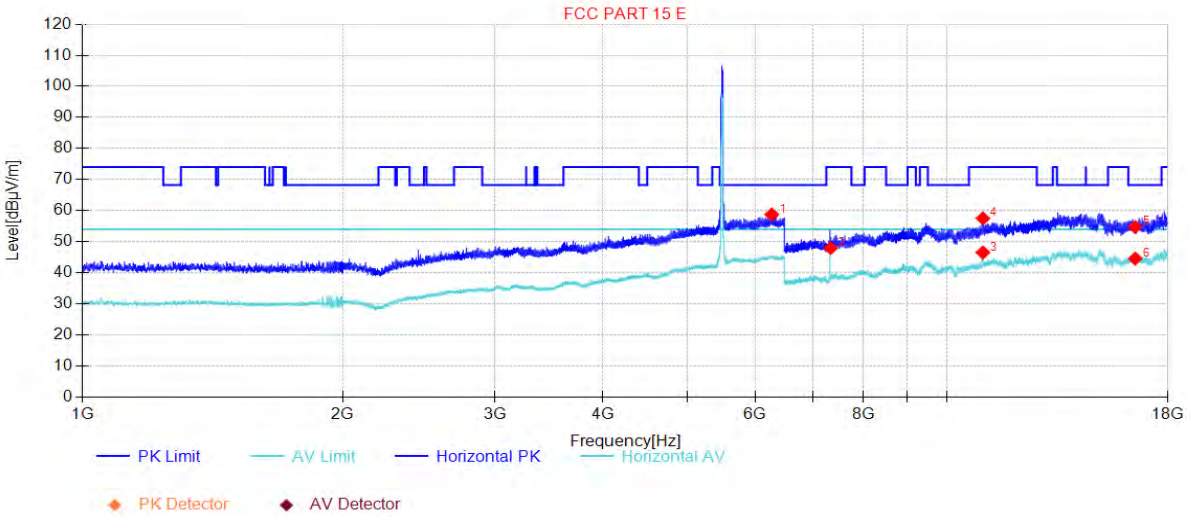
4.9.2.37 802.11N20_Channel 100

Test Graph



Suspected List

Suspected List							
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1	6270.084	58.71	18.34	68.20	9.49	162	Horizontal
2	7334.013	47.93	-2.91	54.00	6.07	144	Horizontal
3	11000.00	46.50	2.74	54.00	7.50	138	Horizontal
4	11000.00	57.47	2.74	74.00	16.53	186	Horizontal
5	16500.00	54.71	5.09	68.20	13.49	169	Horizontal
6	16500.00	44.53	5.09	54.00	9.47	166	Horizontal

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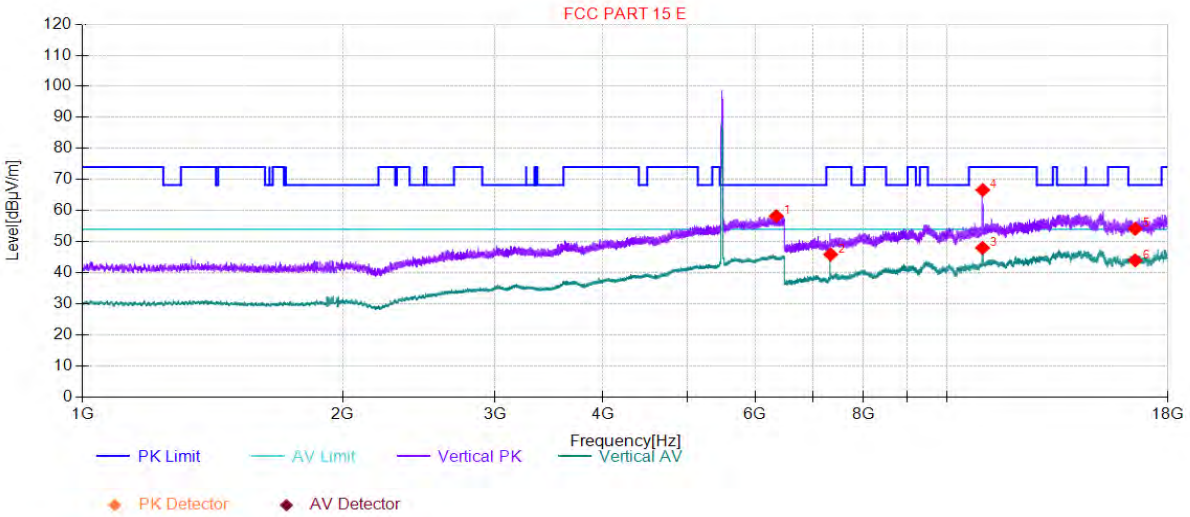
4.9.2.38 802.11N20_Channel 100

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6344.523	58.22	18.34	68.20	9.98	262	Vertical
2	7334.013	45.87	-2.91	54.00	8.13	255	Vertical
3	10989.31	47.96	2.71	54.00	6.04	231	Vertical
4	10997.59	66.61	2.73	74.00	7.39	274	Vertical
5	16500.00	54.11	5.09	68.20	14.09	298	Vertical
6	16500.00	43.96	5.09	54.00	10.04	277	Vertical

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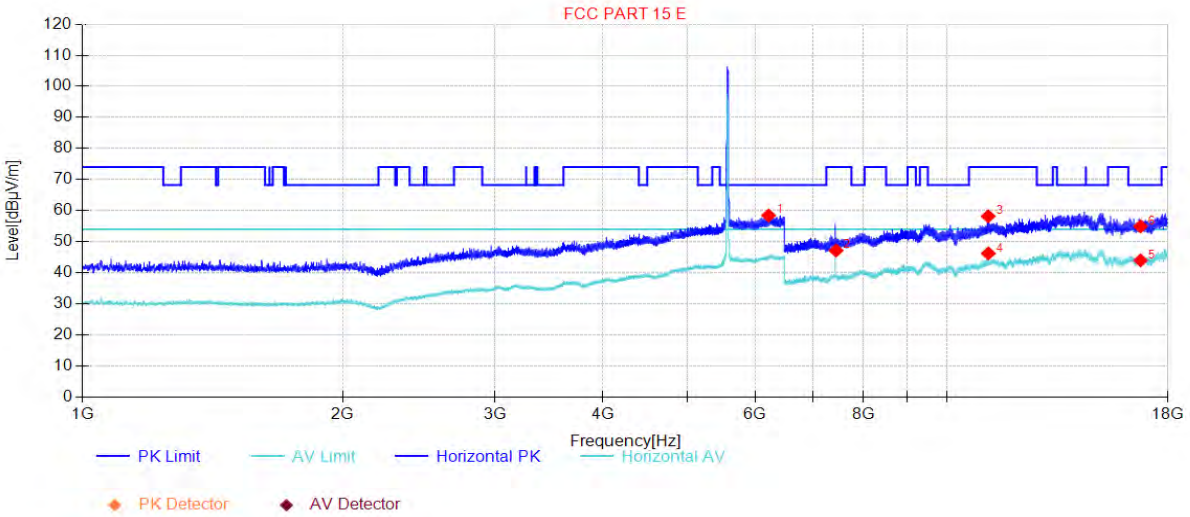
4.9.2.39 802.11N20_Channel 116

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6216.547	58.43	18.08	68.20	9.77	155	Horizontal
2	7439.817	47.17	-2.54	54.00	6.83	122	Horizontal
3	11157.68	58.16	2.54	74.00	15.84	162	Horizontal
4	11160.00	46.18	2.54	54.00	7.82	174	Horizontal
5	16740.00	43.95	5.53	54.00	10.05	166	Horizontal
6	16740.00	54.90	5.53	68.20	13.30	194	Horizontal

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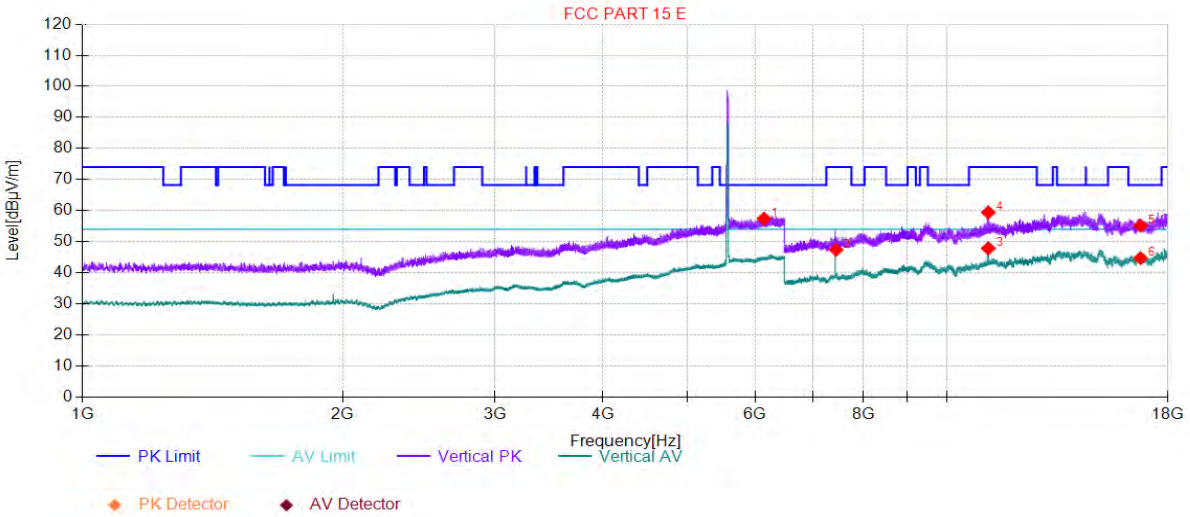
4.9.2.40 802.11N20_Channel 116

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6141.376	57.42	17.87	68.20	10.78	288	Vertical
2	7440.277	47.39	-2.54	54.00	6.61	264	Vertical
3	11160.00	47.83	2.54	54.00	6.17	255	Vertical
4	11160.00	59.41	2.54	74.00	14.59	296	Vertical
5	16740.00	55.16	5.53	68.20	13.04	238	Vertical
6	16740.00	44.69	5.53	54.00	9.31	233	Vertical

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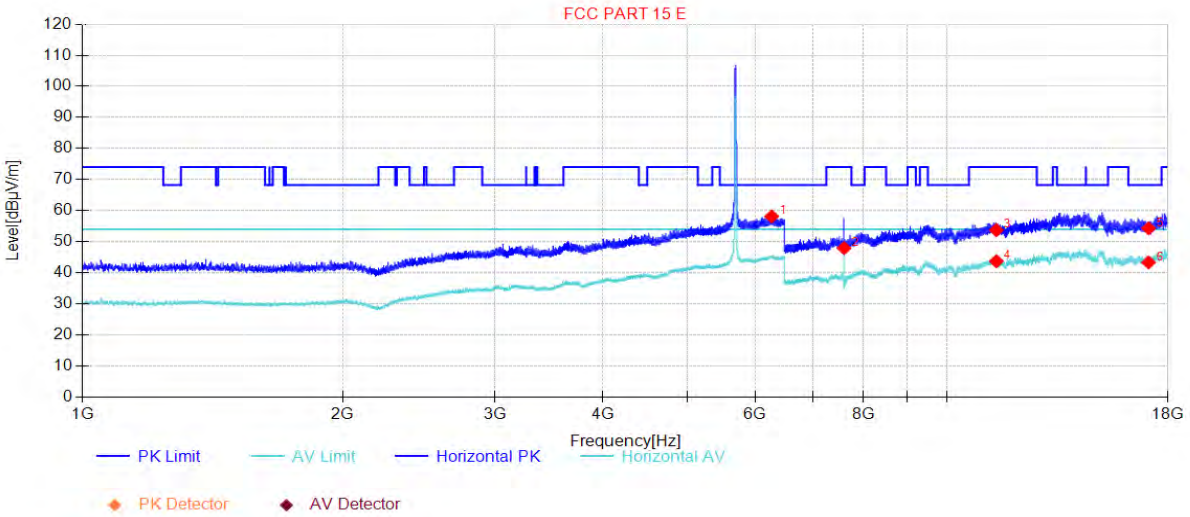
4.9.2.41 802.11N20_Channel 140

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6267.517	58.10	18.33	68.20	10.10	162	Horizontal
2	7600.364	47.88	-2.87	54.00	6.12	133	Horizontal
3	11400.00	53.71	2.54	74.00	20.29	175	Horizontal
4	11400.00	43.69	2.54	54.00	10.31	188	Horizontal
5	17100.00	54.29	5.72	68.20	13.91	155	Horizontal
6	17100.00	43.31	5.72	54.00	10.69	168	Horizontal

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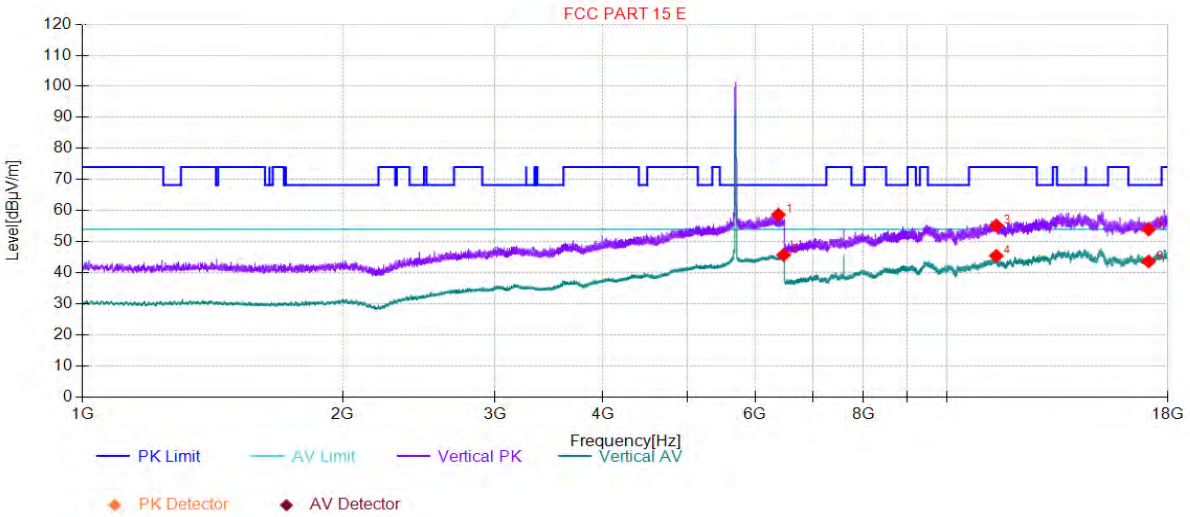
4.9.2.42 802.11N20_Channel 140

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6381.192	58.66	18.22	68.20	9.54	262	Vertical
2	6471.398	45.72	18.56	54.00	8.28	233	Vertical
3	11400.00	55.18	2.54	74.00	18.82	248	Vertical
4	11400.00	45.41	2.54	54.00	8.59	255	Vertical
5	17100.00	53.94	5.72	68.20	14.26	268	Vertical
6	17100.00	43.61	5.72	54.00	10.39	195	Vertical

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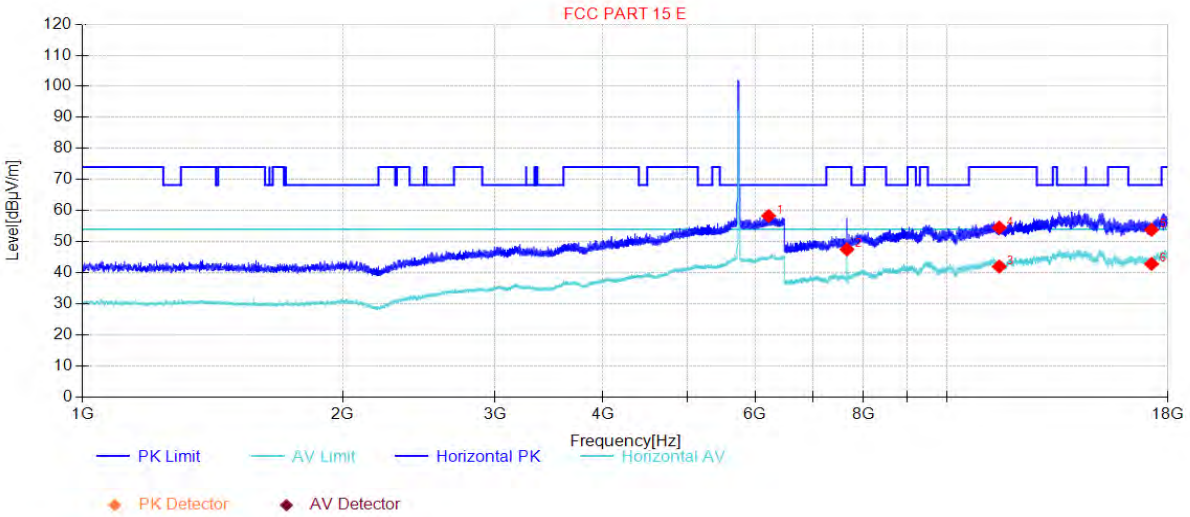
4.9.2.43 802.11N20_Channel 149

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6216.181	58.28	18.08	68.20	9.92	188	Horizontal
2	7660.626	47.50	-2.36	54.00	6.50	155	Horizontal
3	11490.00	41.98	2.10	54.00	12.02	192	Horizontal
4	11490.00	54.50	2.10	74.00	19.50	206	Horizontal
5	17235.00	53.77	6.10	68.20	14.43	167	Horizontal
6	17235.00	42.82	6.10	54.00	11.18	150	Horizontal

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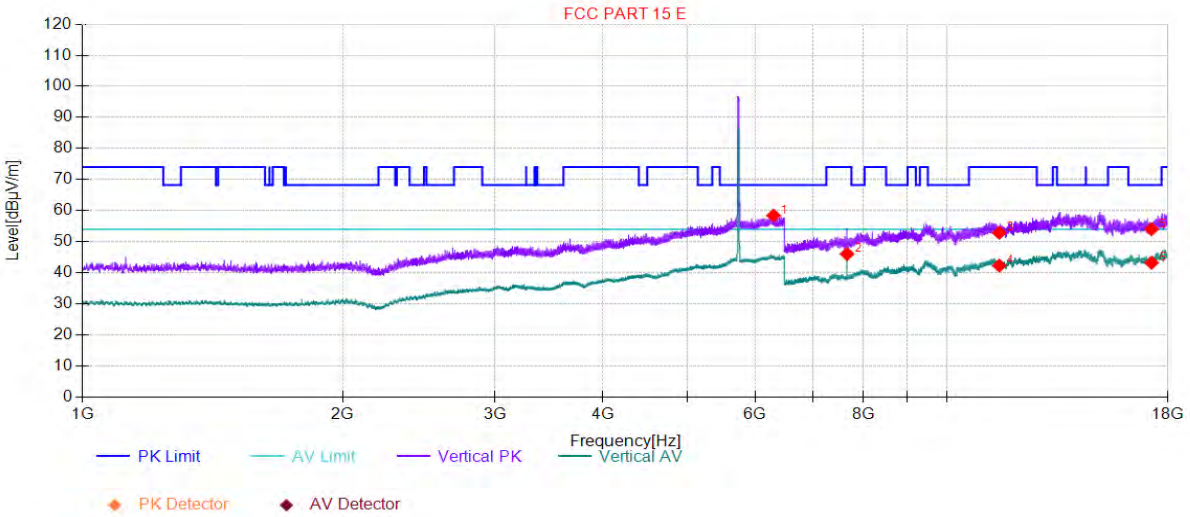
4.9.2.44 802.11N20_Channel 149

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6299.786	58.40	18.48	68.20	9.80	283	Vertical
2	7660.626	46.04	-2.36	54.00	7.96	255	Vertical
3	11490.00	52.85	2.10	74.00	21.15	262	Vertical
4	11490.00	42.28	2.10	54.00	11.72	284	Vertical
5	17235.00	54.01	6.10	68.20	14.19	244	Vertical
6	17235.00	43.20	6.10	54.00	10.80	232	Vertical

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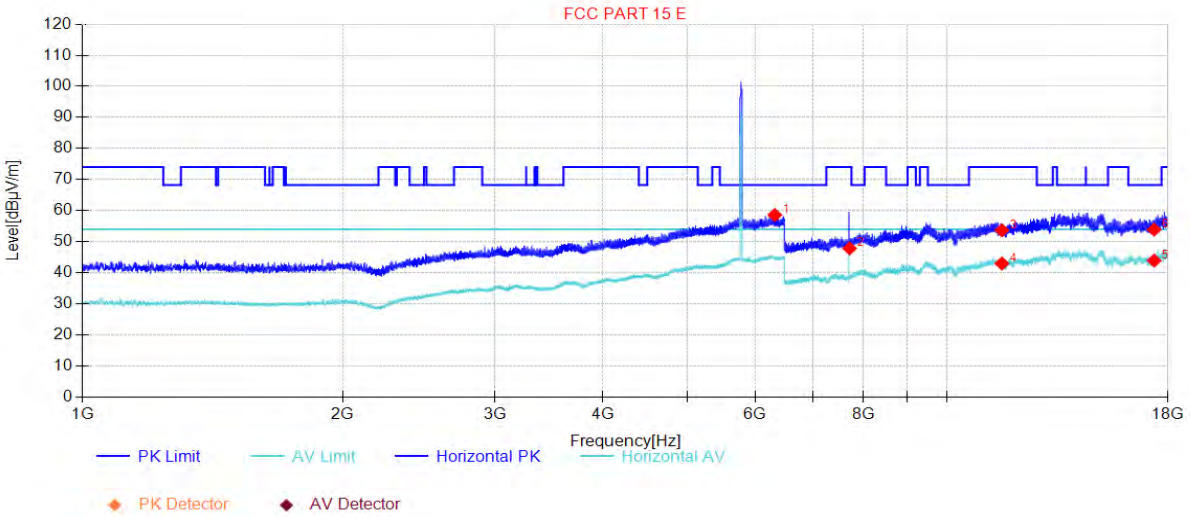
4.9.2.45 802.11N20_Channel 157

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6320.321	58.59	18.42	68.20	9.61	133	Horizontal
2	7713.528	47.82	-1.96	54.00	6.18	142	Horizontal
3	11570.00	53.64	2.92	74.00	20.36	192	Horizontal
4	11570.00	42.95	2.92	54.00	11.05	166	Horizontal
5	17355.00	43.88	6.75	54.00	10.12	161	Horizontal
6	17355.00	53.87	6.75	68.20	14.33	182	Horizontal

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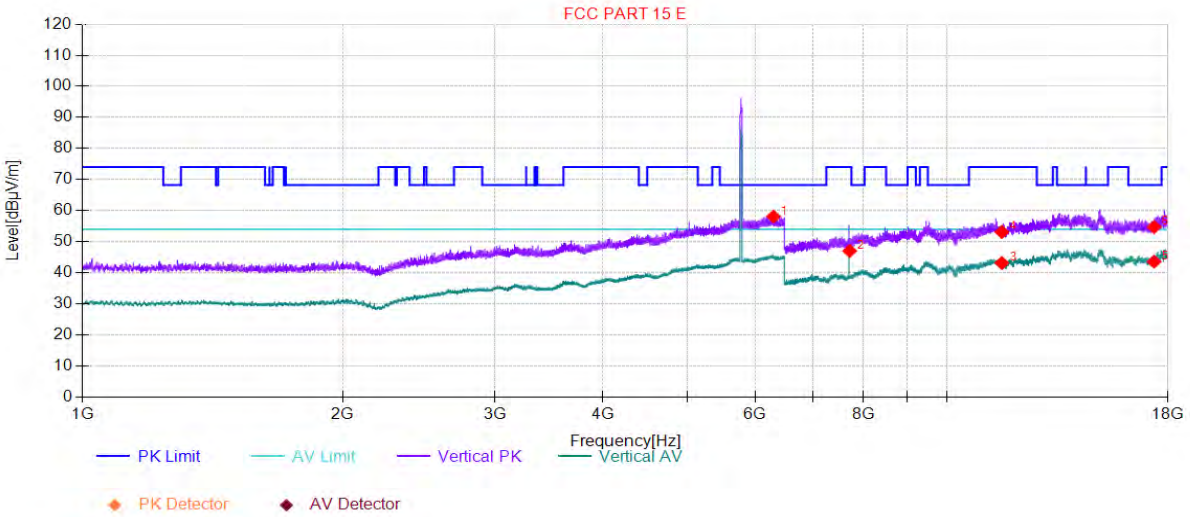
4.9.2.46 802.11N20_Channel 157

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6298.686	58.08	18.48	68.20	10.12	261	Vertical
2	7713.988	47.00	-1.96	54.00	7.00	206	Vertical
3	11570.00	43.10	2.92	54.00	10.90	211	Vertical
4	11570.00	53.10	2.92	74.00	20.90	284	Vertical
5	17355.00	43.56	6.75	54.00	10.44	233	Vertical
6	17355.00	54.71	6.75	68.20	13.49	286	Vertical

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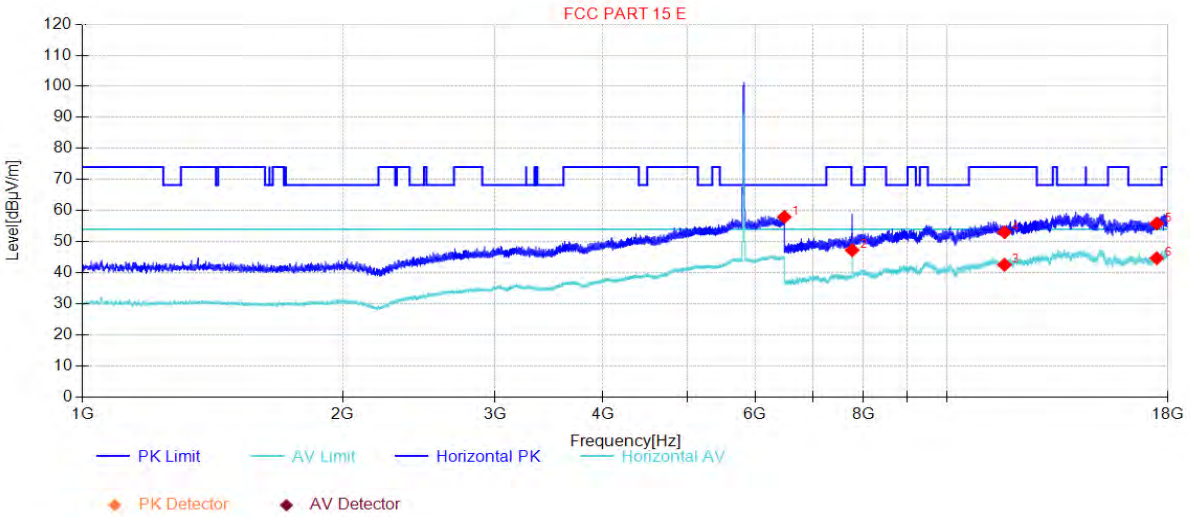
4.9.2.47 802.11N20_Channel 165

Test Graph



Suspected List

Suspected List							
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1	6483.498	57.96	18.62	68.20	10.24	166	Horizontal
2	7766.890	47.27	-1.69	54.00	6.73	187	Horizontal
3	11650.00	42.56	2.58	54.00	11.44	171	Horizontal
4	11650.00	53.01	2.58	74.00	20.99	155	Horizontal
5	17475.00	55.83	7.42	68.20	12.37	192	Horizontal
6	17475.00	44.68	7.42	54.00	9.32	121	Horizontal

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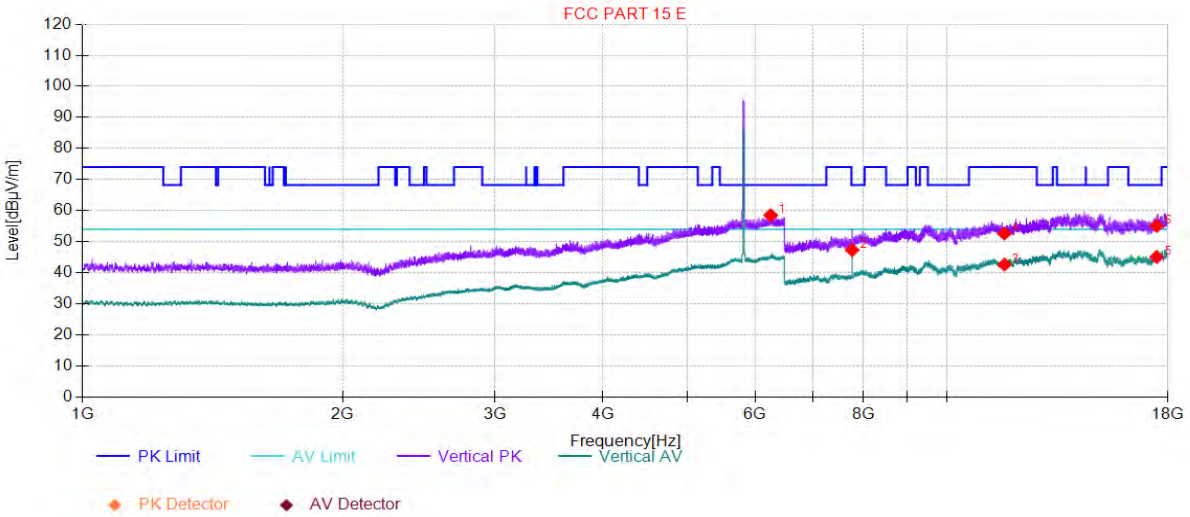
4.9.2.48 802.11N20_Channel 165

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6250.283	58.49	18.24	68.20	9.71	267	Vertical
2	7767.350	47.30	-1.69	54.00	6.70	222	Vertical
3	11650.00	42.62	2.58	54.00	11.38	241	Vertical
4	11650.00	52.60	2.58	74.00	21.40	295	Vertical
5	17475.00	45.03	7.42	54.00	8.97	277	Vertical
6	17475.00	55.05	7.42	68.20	13.15	288	Vertical

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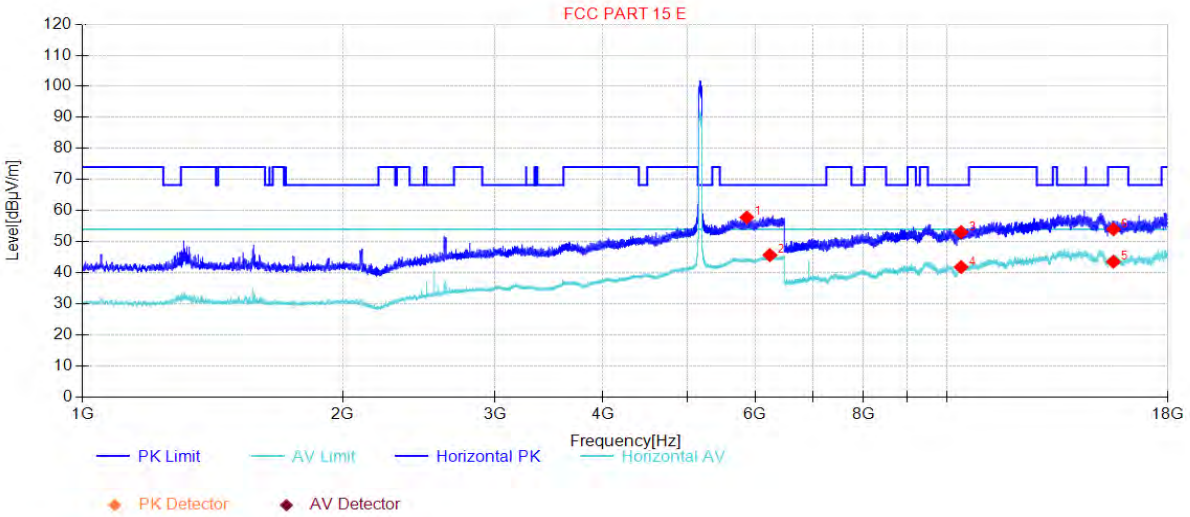
4.9.2.49 802.11N40_Channel 38

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	5866.724	57.80	17.06	68.20	10.40	155	Horizontal
2	6238.915	45.66	18.19	54.00	8.34	162	Horizontal
3	10380.00	53.06	2.40	68.20	15.14	144	Horizontal
4	10380.00	41.79	2.40	54.00	12.21	152	Horizontal
5	15570.00	43.51	6.00	54.00	10.49	168	Horizontal
6	15570.00	53.97	6.00	74.00	20.03	188	Horizontal

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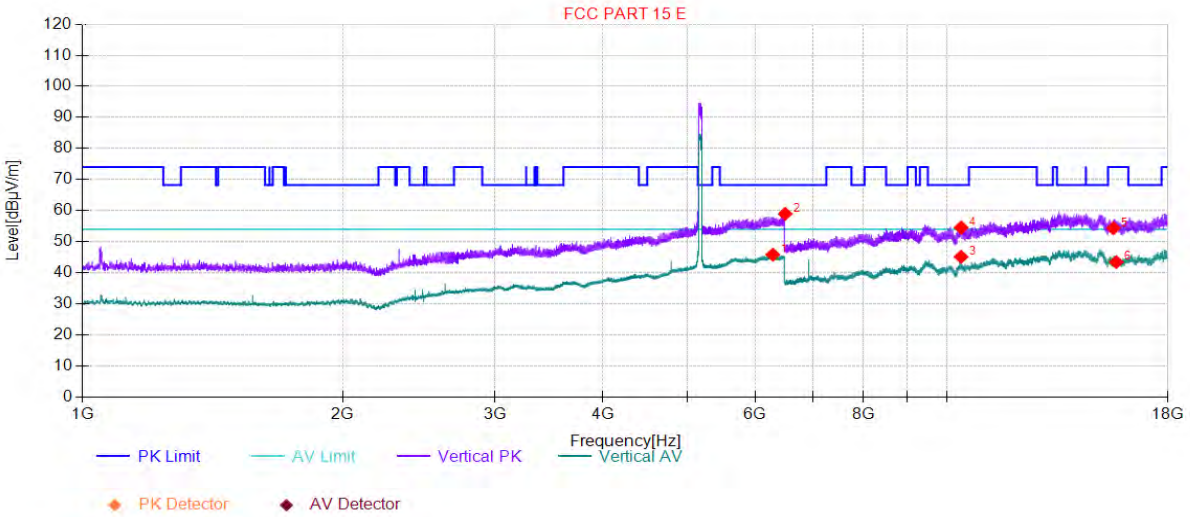
4.9.2.50 802.11N40_Channel 38

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6286.952	45.80	18.42	54.00	8.20	255	Vertical
2	6496.699	58.96	18.70	68.20	9.24	262	Vertical
3	10380.00	45.11	2.40	54.00	8.89	274	Vertical
4	10380.00	54.53	2.40	68.20	13.67	277	Vertical
5	15570.00	54.33	6.00	74.00	19.67	289	Vertical
6	15690.00	43.41	6.13	54.00	10.59	244	Vertical

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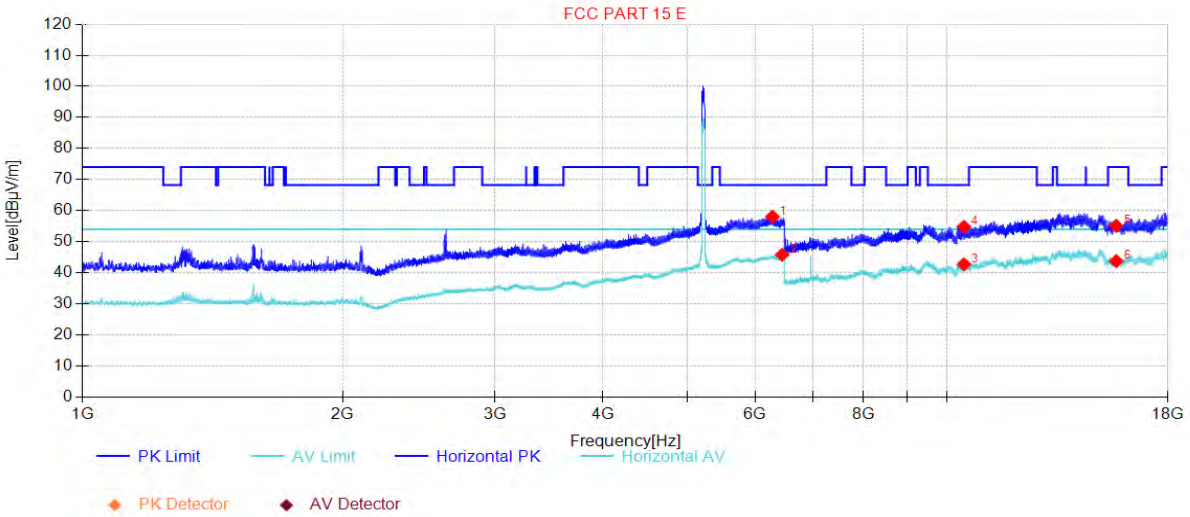
4.9.2.51 802.11N40_Channel 46

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6281.818	58.02	18.40	68.20	10.18	177	Horizontal
2	6444.263	45.79	18.41	54.00	8.21	162	Horizontal
3	10460.00	42.69	2.47	54.00	11.31	103	Horizontal
4	10460.00	54.75	2.47	68.20	13.45	122	Horizontal
5	15690.00	55.06	6.13	74.00	18.94	136	Horizontal
6	15690.00	43.72	6.13	54.00	10.28	152	Horizontal

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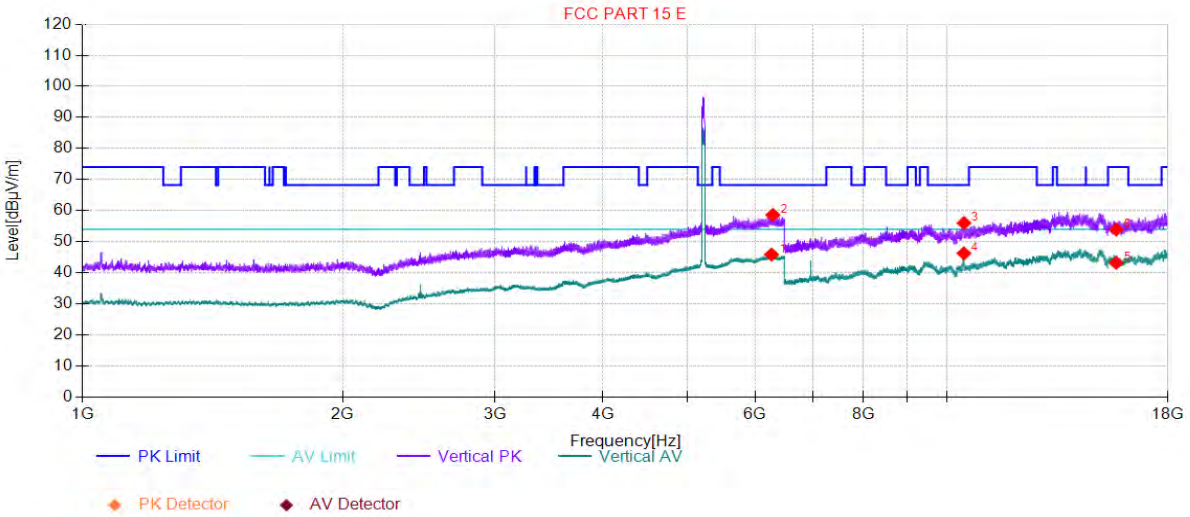
4.9.2.52 802.11N40_Channel 46

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6265.684	45.84	18.32	54.00	8.16	285	Vertical
2	6287.685	58.60	18.43	68.20	9.60	262	Vertical
3	10460.00	55.97	2.47	68.20	12.23	255	Vertical
4	10460.00	46.21	2.47	54.00	7.79	241	Vertical
5	15690.00	43.18	6.13	54.00	10.82	206	Vertical
6	15690.00	53.90	6.13	74.00	20.10	217	Vertical

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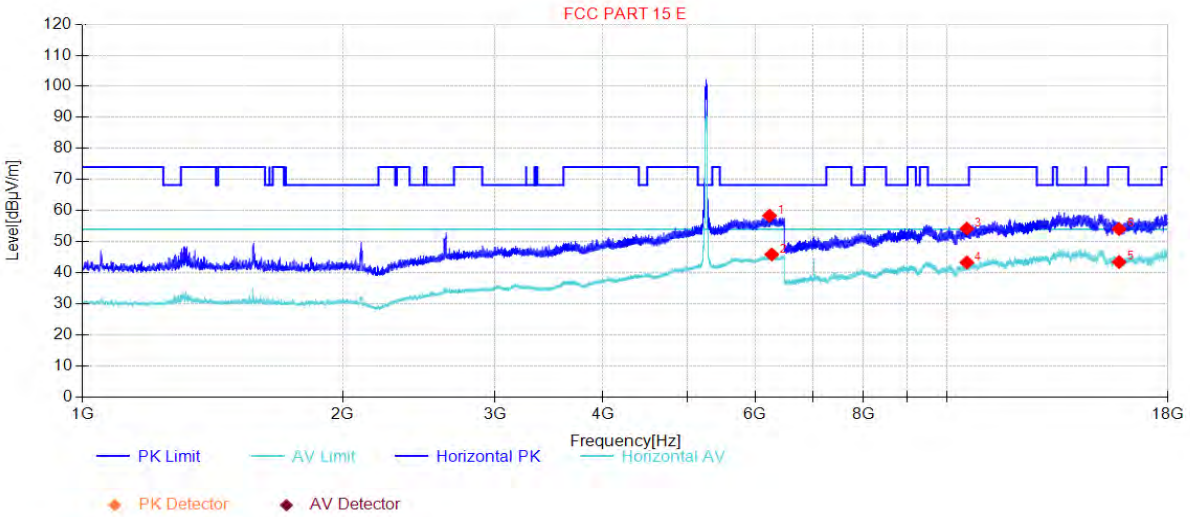
4.9.2.53 802.11N40_Channel 54

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6232.682	58.34	18.16	68.20	9.86	122	Horizontal
2	6269.351	45.87	18.34	54.00	8.13	108	Horizontal
3	10540.00	54.20	2.39	68.20	14.00	167	Horizontal
4	10540.00	43.29	2.39	54.00	10.71	182	Horizontal
5	15810.00	43.43	5.12	54.00	10.57	155	Horizontal
6	15810.00	54.06	5.12	74.00	19.94	162	Horizontal

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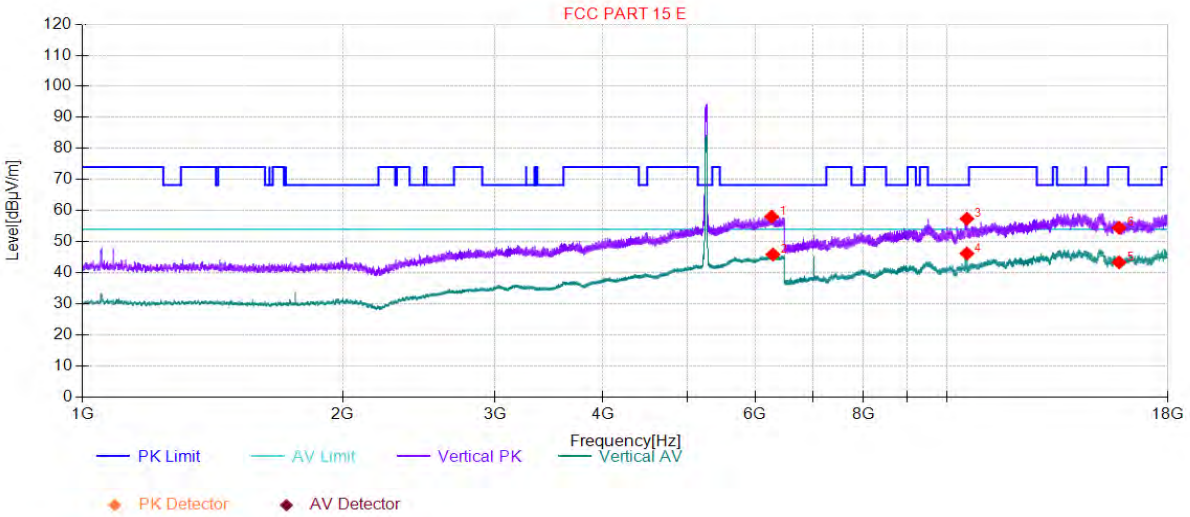
4.9.2.54 802.11N40_Channel 54

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6267.884	58.06	18.33	68.20	10.14	384	Vertical
2	6288.785	45.86	18.43	54.00	8.14	351	Vertical
3	10540.00	57.35	2.39	68.20	10.85	251	Vertical
4	10540.00	46.18	2.39	54.00	7.82	212	Vertical
5	15810.00	43.33	5.12	54.00	10.67	222	Vertical
6	15810.00	54.46	5.12	74.00	19.54	284	Vertical

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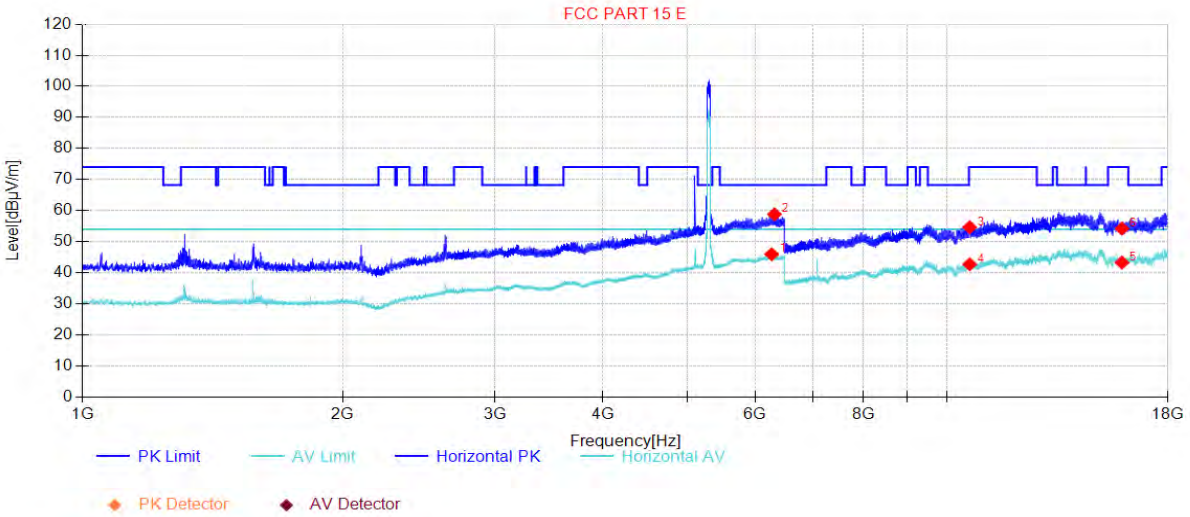
4.9.2.55 802.11N40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6267.884	45.93	18.33	54.00	8.07	166	Horizontal
2	6314.087	58.81	18.44	68.20	9.39	192	Horizontal
3	10620.00	54.64	2.23	74.00	19.36	182	Horizontal
4	10620.00	42.71	2.23	54.00	11.29	155	Horizontal
5	15930.00	43.27	5.15	54.00	10.73	153	Horizontal
6	15930.00	54.18	5.15	74.00	19.82	108	Horizontal

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