FCC TEST REPORT

Application No.:	ZR/2021/10049
Applicant:	HMD Global Oy
Address of Applicant	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD Global Oy
Address of Manufacturer	Bertel Jungin aukio 9, 02600 Espoo, Finland
EUT Description:	smart phone
Model No.:	TA-1341
Trade Mark:	Nokia
FCC ID:	2AJOTTA-1341
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart E
Date of Receipt:	2021/1/29
Date of Test:	2021/1/29 to 2021/3/3
Date of Issue:	2021/4/17
Test Result :	**PASS ***

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Derek Yang

Derek Yang
Wireless Laboratory Manager

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1 Version

Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
01		2021/3/9		Original
02		2021/4/17	Eason Wang	1.Add test site Information 2.Update equipment list

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

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2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result	Test Lab*
26dB Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Clause 4.5	PASS	A
	5250-5350	15.403(i) 15.407(a)(2)				
	5470-5725	15.403(i) 15.407(a)(2)				
6dB Emission Bandwidth	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	A
99% Occupied Bandwidth	5150-5250	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS	A
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	--	No limit.	Clause 4.3	PASS	A
Maximum Conducted Output Power	5150-5250	15.407(a)(1)	FCC < 250mW (avg during transmission)	Clause 4.4	PASS	A
	5250-5350	15.407(a)(2)	<MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)			
	5470-5725	15.407(a)(2)	<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)	<11dBm/MHz (avg during transmission)	Clause 4.8	PASS	A
	5250-5350	15.407(a)(2)	<11dBm/MHz (avg during transmission)			
	5470-5725	15.407(a)(2)	<11dBm/MHz (avg during transmission)			
	5725-5850	15.407(a)(3)	<30dBm/500KHz (avg during transmission)			
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	5150-5250	15.407(b)(1) 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)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted:		PASS	

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			§15.209/§7.2.5 limit (AV&PK).			
	5470-5750	15.407(b)(3) 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)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS	
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	---	Clause 4.10	PASS	B
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	---	Clause 4.2	PASS	B
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-	15.209	---	Clause 4.11	PASS	A

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

Remark：All test were performed by Lab A and B.
Parts of test items above were subcontracted to Lab B.
Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Test engineer:Dee Zheng,Swing Hu,Habit Zeng, Leah Chen,Ken Liu,Andy Yao

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3 General Information

3.1 Details of Client

Applicant:	HMD Global Oy
Address of Applicant	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD Global Oy
Address of Manufacturer	Bertel Jungin aukio 9, 02600 Espoo, Finland

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

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

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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:	smart phone
Model No.:	TA-1341
Trade Mark:	Nokia
Hardware Version:	V1.0
Software Version:	00WW_0_226
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:	☐ External, ☒ Integrated
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:	1.03dBi

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 1.03dBi.	

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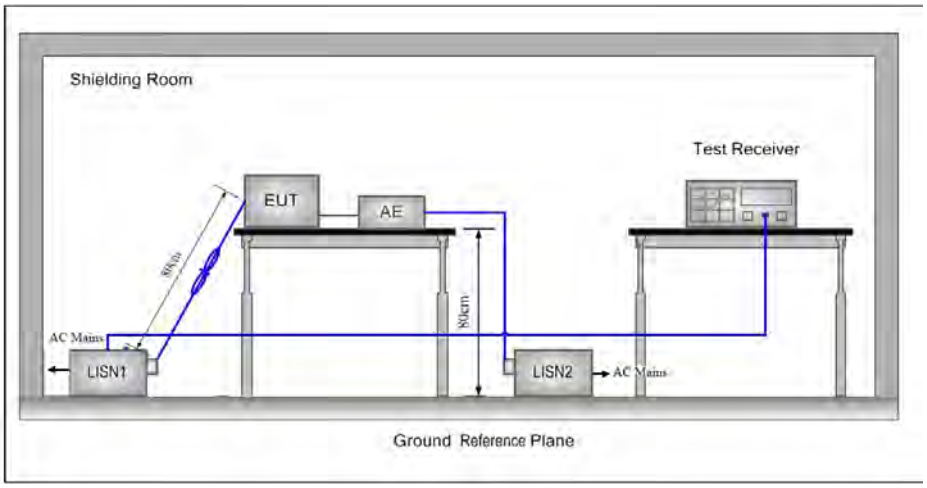
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer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

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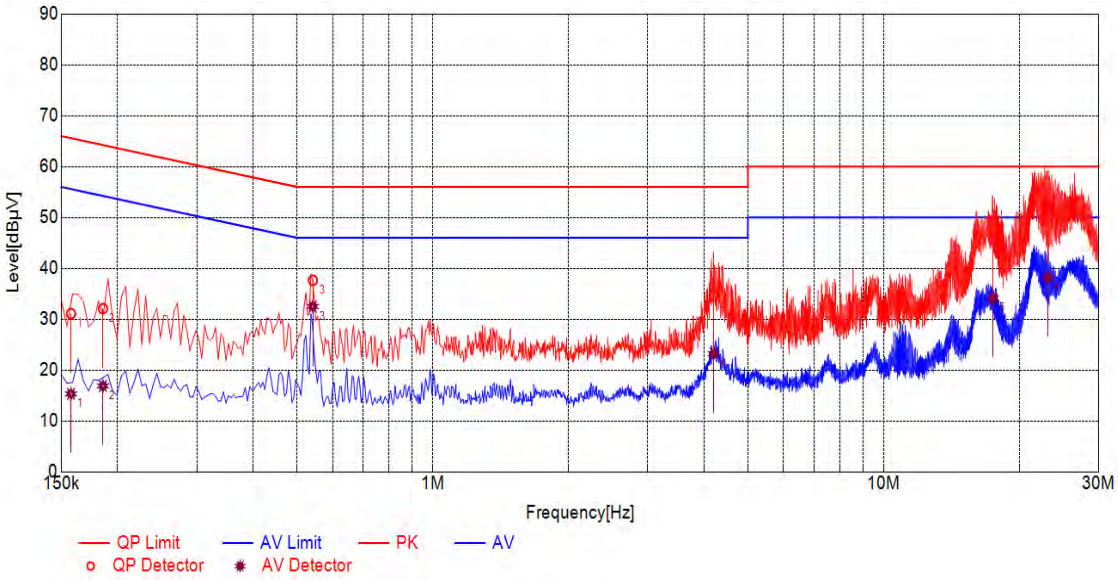
Measurement Data

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	0.1577	10.10	31.09	65.59	34.50	15.30	55.59	40.29
2	0.1857	10.10	32.07	64.22	32.15	16.88	54.22	37.34
3	0.5422	10.10	37.64	56.00	18.36	32.49	46.00	13.51
4	4.1993	10.10	34.67	56.00	21.33	23.22	46.00	22.78
5	17.4866	10.11	45.54	60.00	14.46	34.13	50.00	15.87
6	23.1399	10.11	52.14	60.00	7.86	38.20	50.00	11.80

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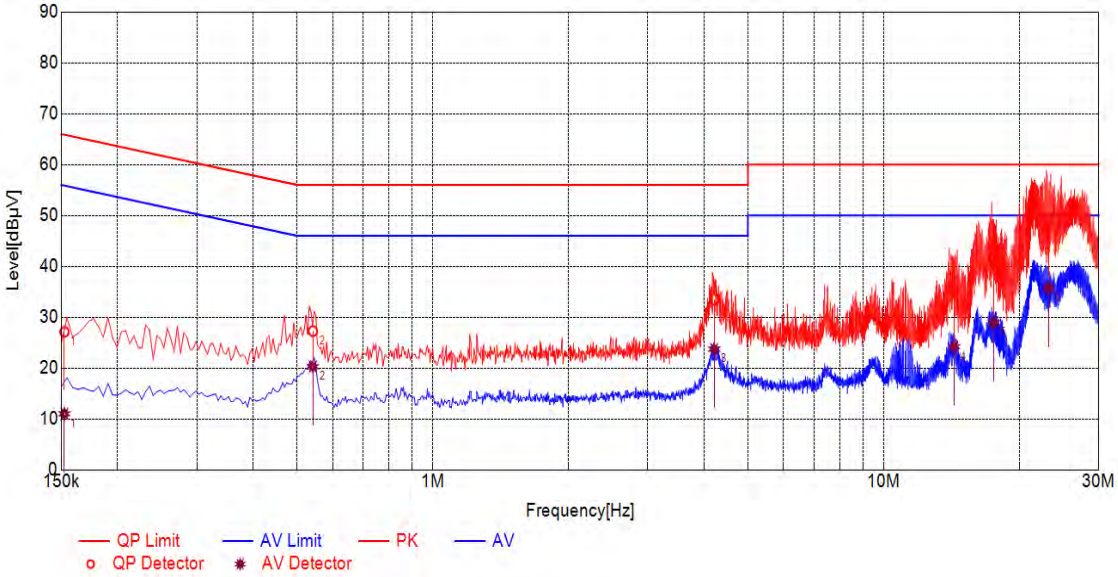
Neutral Line:



Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin
1	0.1525	10.10	27.13	65.86	38.73	11.02	55.86	44.84
2	0.5423	10.10	27.26	56.00	28.74	20.27	46.00	25.73
3	4.2089	10.10	33.47	56.00	22.53	23.72	46.00	22.28
4	14.3429	10.11	35.06	60.00	24.94	24.19	50.00	25.81
5	17.5647	10.11	41.67	60.00	18.33	28.93	50.00	21.07
6	23.2175	10.11	49.32	60.00	10.68	35.68	50.00	14.32

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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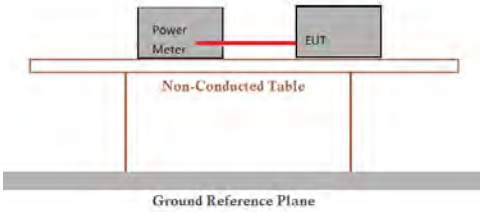
4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	

The detailed test data see: **Appendix**

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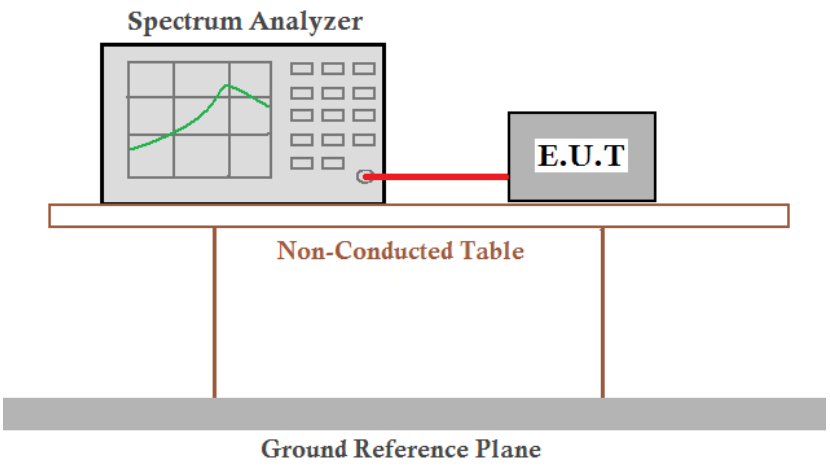
4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

The detailed test data see: **Appendix**

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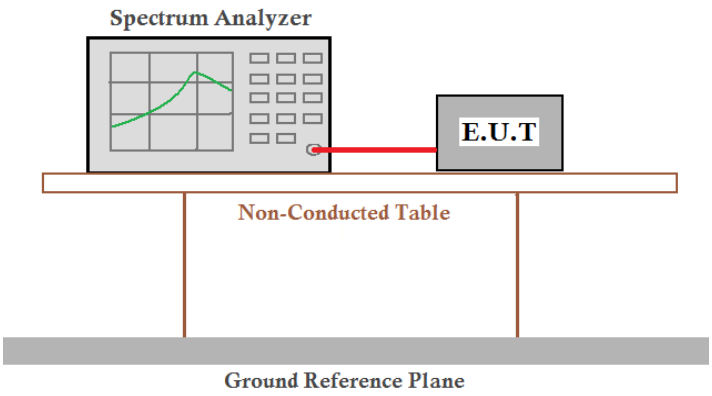
4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). 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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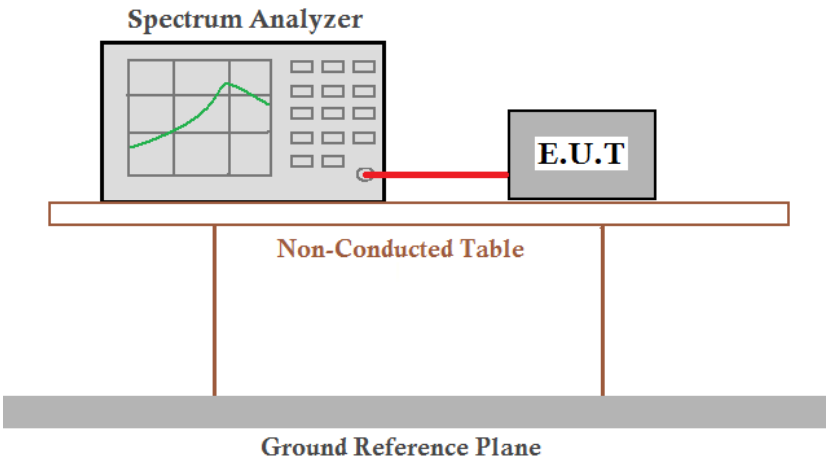
4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass

The detailed test data see: **Appendix**

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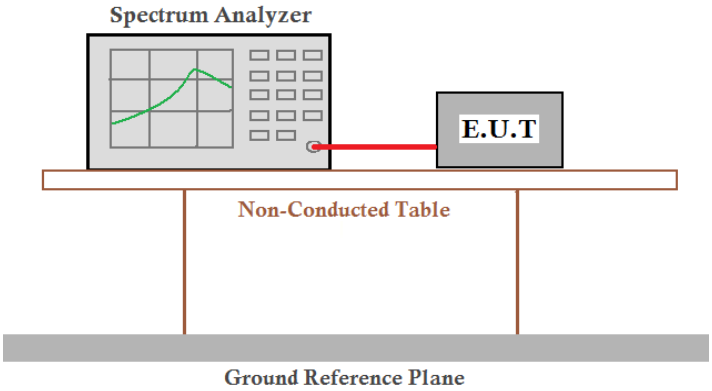
4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). 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:	

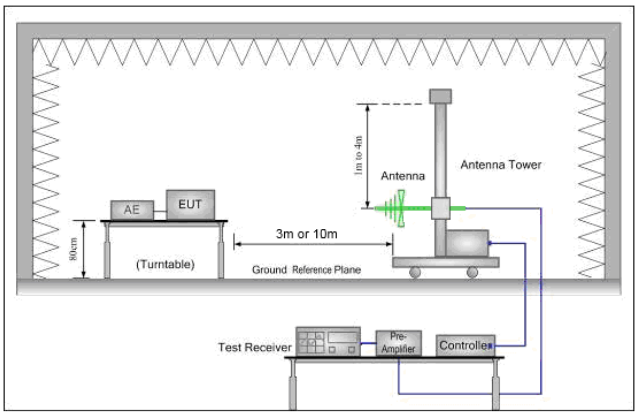

Figure 1. 30MHz to 1GHz

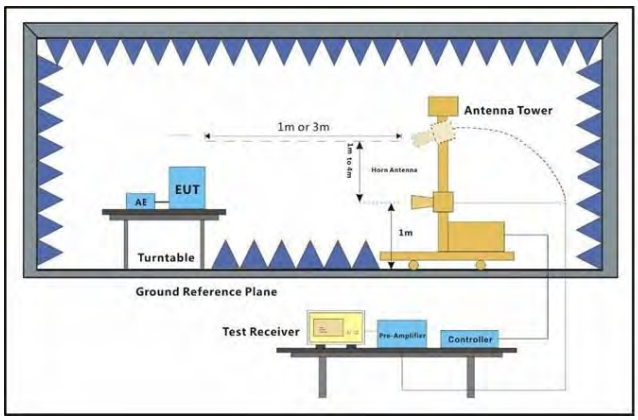

Figure 2. Above 1 GHz

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.
Test Configuration:	Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ⩾ 3 MHz

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	• Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ⩾ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). 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 6 for details
Test Results:	Pass

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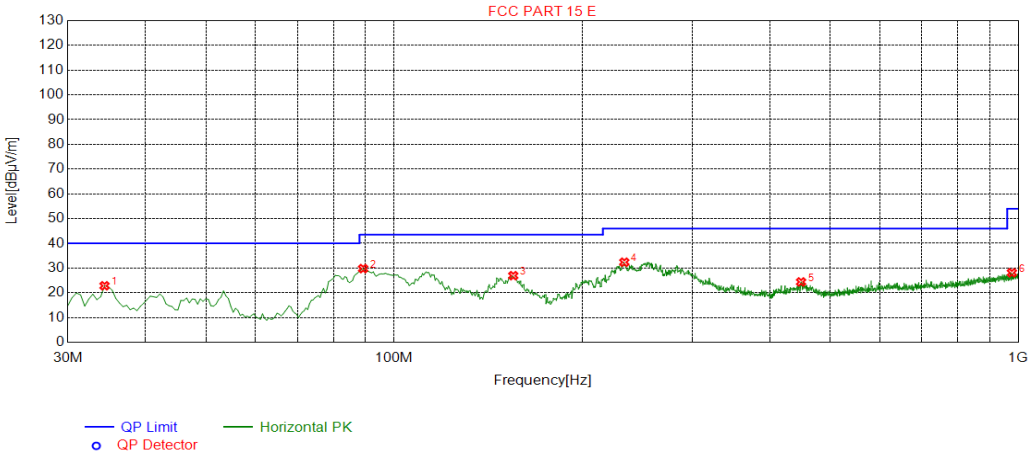
4.9.1 Radiated emission below 1GHz

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.3672	22.87	-29.98	40.00	17.13	178	262	Horizontal
2	89.1996	29.81	-33.91	43.50	13.69	135	267	Horizontal
3	155.192	26.95	-34.85	43.50	16.55	157	41	Horizontal
4	233.801	32.38	-30.28	46.00	13.62	192	95	Horizontal
5	448.764	24.42	-24.40	46.00	21.58	244	125	Horizontal
6	976.708	28.12	-15.11	54.00	25.88	150	16	Horizontal

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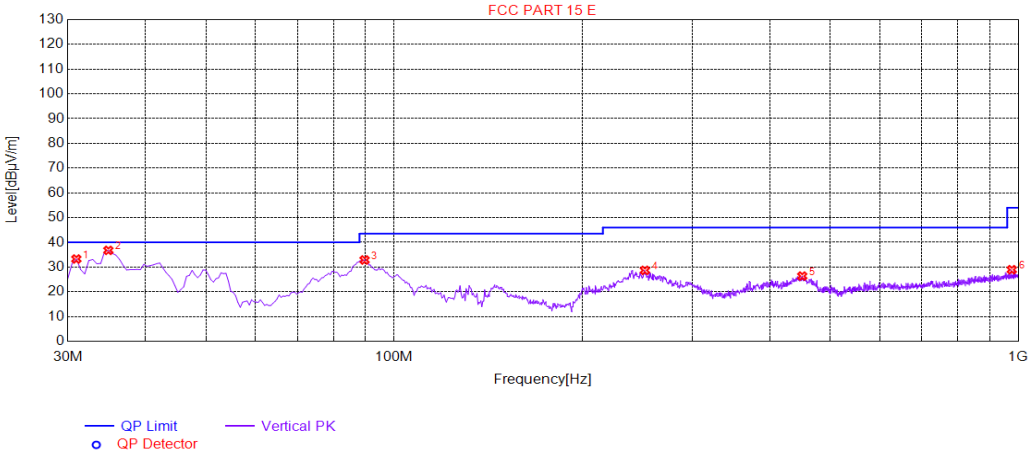
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.9705	33.29	-30.06	40.00	6.71	206	14	Vertical
2	34.8524	36.78	-29.96	40.00	3.22	177	14	Vertical
3	89.6848	32.89	-33.79	43.50	10.61	162	259	Vertical
4	252.241	28.71	-29.60	46.00	17.29	206	175	Vertical
5	450.705	26.39	-24.37	46.00	19.61	364	115	Vertical
6	976.223	28.96	-15.12	54.00	25.04	150	167	Vertical

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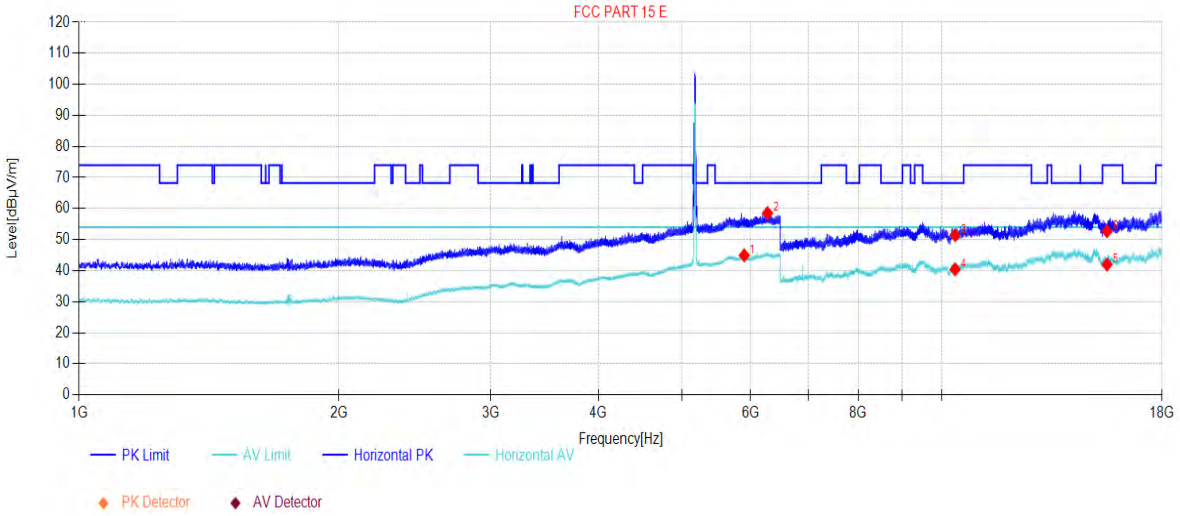
4.9.2 Transmitter emission above 1GHz

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]	Angle [°]	Polarity
1	5901.56	44.93	17.24	54.00	9.07	146	278	Horizontal
2	6281.08	58.54	18.39	68.20	9.66	154	181	Horizontal
3	10360.0	51.40	2.38	68.20	16.80	163	261	Horizontal
4	10360.0	40.42	2.38	54.00	13.58	148	233	Horizontal
5	15540.0	42.00	5.88	54.00	12.00	198	58	Horizontal
6	15540.0	52.70	5.88	74.00	21.30	163	155	Horizontal

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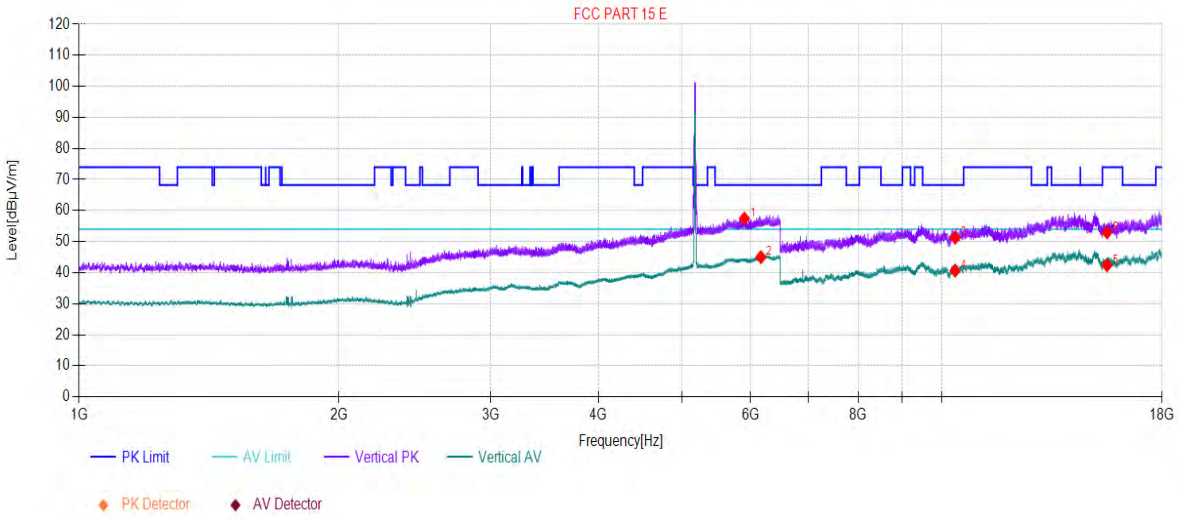
4.9.2.2 802.11A_Channel 36

Test Graph



Suspected List

Suspected List								
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1	5903.76	57.43	17.24	68.20	10.77	248	79	Vertical
2	6169.97	45.01	17.93	54.00	8.99	249	286	Vertical
3	10360.0	51.26	2.38	68.20	16.94	268	242	Vertical
4	10360.0	40.65	2.38	54.00	13.35	261	310	Vertical
5	15540.0	42.40	5.88	54.00	11.60	251	88	Vertical
6	15540.0	52.96	5.88	74.00	21.04	258	136	Vertical

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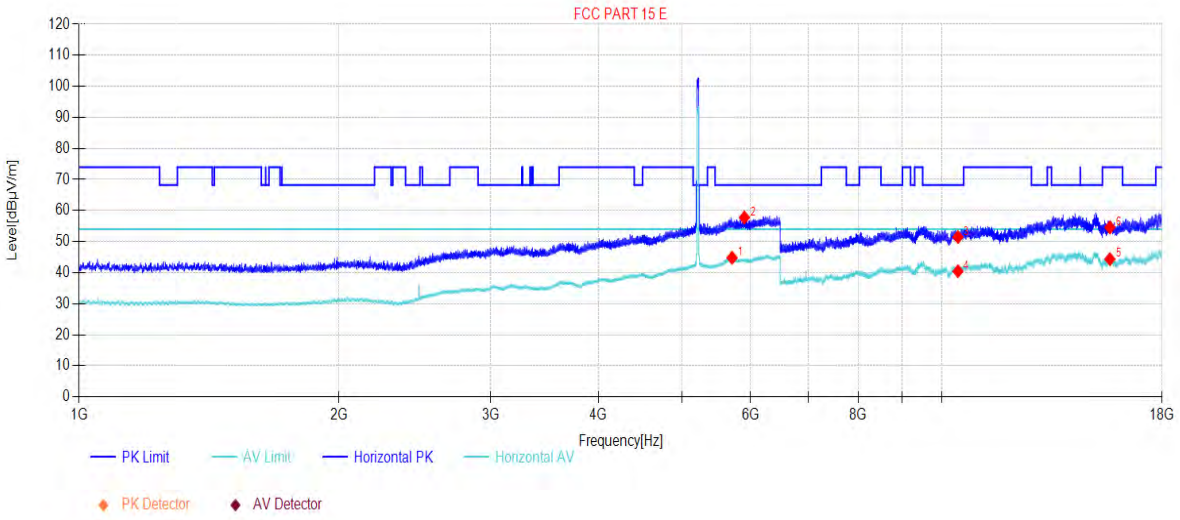
4.9.2.3 802.11A_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5713.81	44.79	16.89	54.00	9.21	134	16	Horizontal
2	5904.12	57.76	17.24	68.20	10.44	161	113	Horizontal
3	10440.0	51.47	2.46	68.20	16.73	124	136	Horizontal
4	10440.0	40.48	2.46	54.00	13.52	187	252	Horizontal
5	15660.0	44.36	6.12	54.00	9.64	164	175	Horizontal
6	15660.0	54.57	6.12	74.00	19.43	167	252	Horizontal

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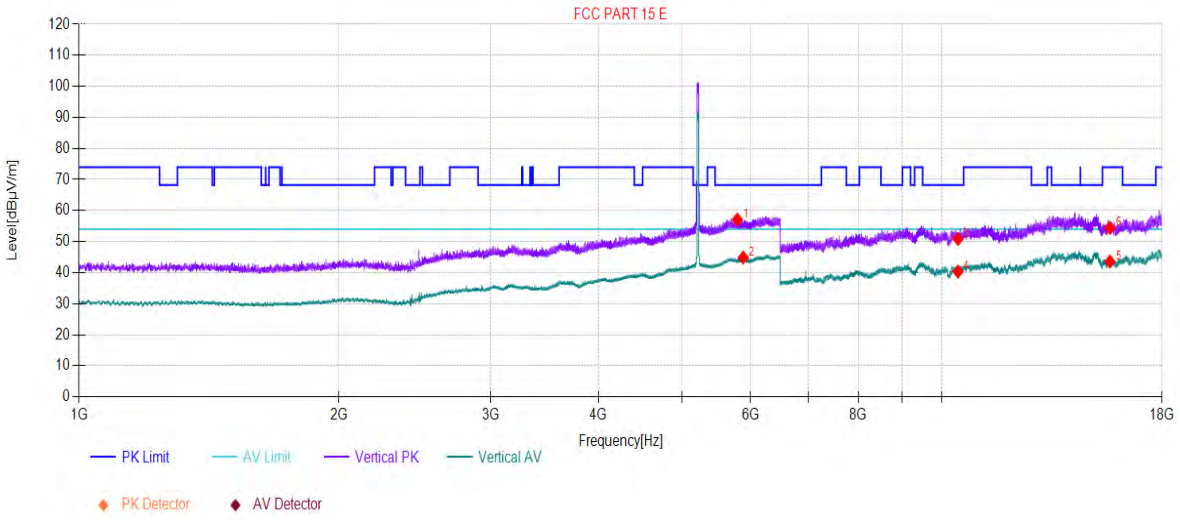
4.9.2.4 802.11A_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5794.11	57.10	16.72	68.20	11.10	167	183	Vertical
2	5885.42	44.86	17.16	54.00	9.14	178	280	Vertical
3	10440.0	50.85	2.46	68.20	17.35	148	299	Vertical
4	10440.0	40.38	2.46	54.00	13.62	168	20	Vertical
5	15660.0	43.58	6.12	54.00	10.42	187	299	Vertical
6	15660.0	54.45	6.12	74.00	19.55	146	261	Vertical

Final Data List

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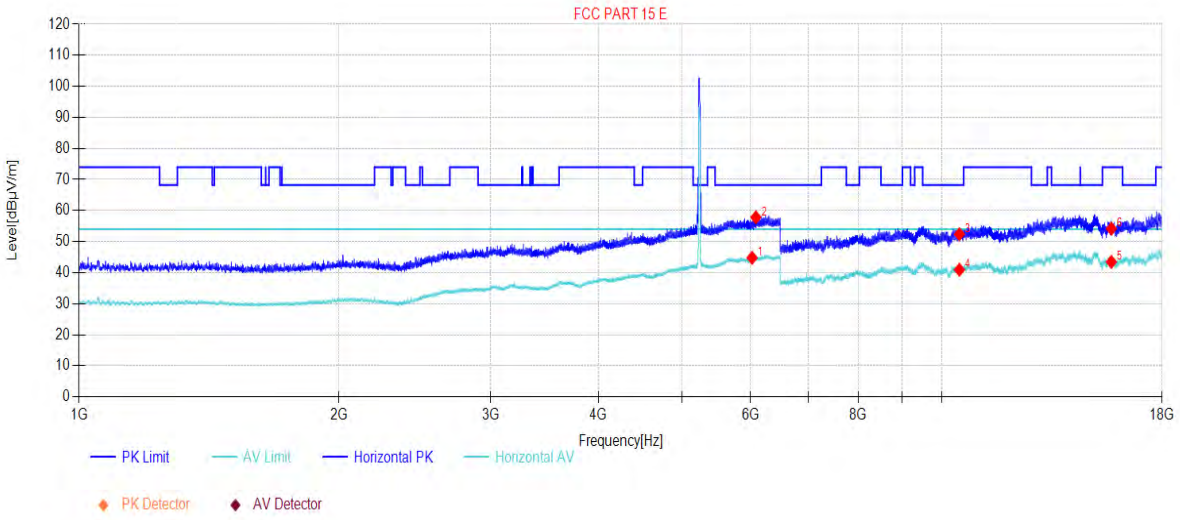
4.9.2.5 802.11A_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6026.23	44.78	17.42	54.00	9.22	162	287	Horizontal
2	6087.83	57.82	17.72	68.20	10.38	168	231	Horizontal
3	10480.0	52.40	2.49	68.20	15.80	148	290	Horizontal
4	10480.0	40.94	2.49	54.00	13.06	164	116	Horizontal
5	15720.0	43.46	5.92	54.00	10.54	148	328	Horizontal
6	15720.0	54.16	5.92	74.00	19.84	168	232	Horizontal

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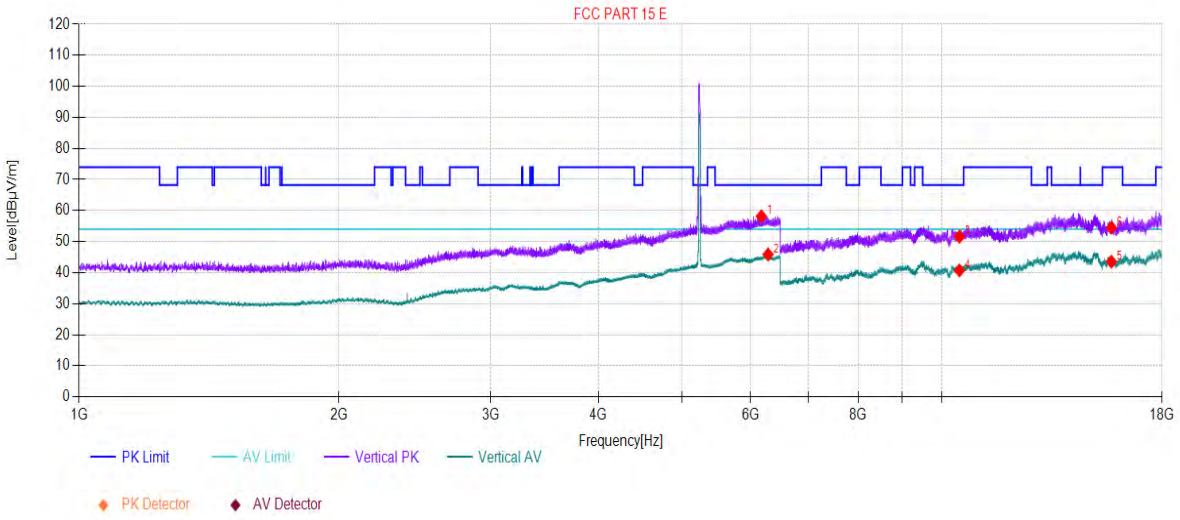
4.9.2.6 802.11A_Channel 48

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6177.31	58.16	17.95	68.20	10.04	245	299	Vertical
2	6289.88	45.87	18.44	54.00	8.13	287	195	Vertical
3	10480.0	51.60	2.49	68.20	16.60	261	164	Vertical
4	10480.0	40.73	2.49	54.00	13.27	264	280	Vertical
5	15720.0	43.55	5.92	54.00	10.45	248	136	Vertical
6	15720.0	54.47	5.92	74.00	19.53	294	68	Vertical

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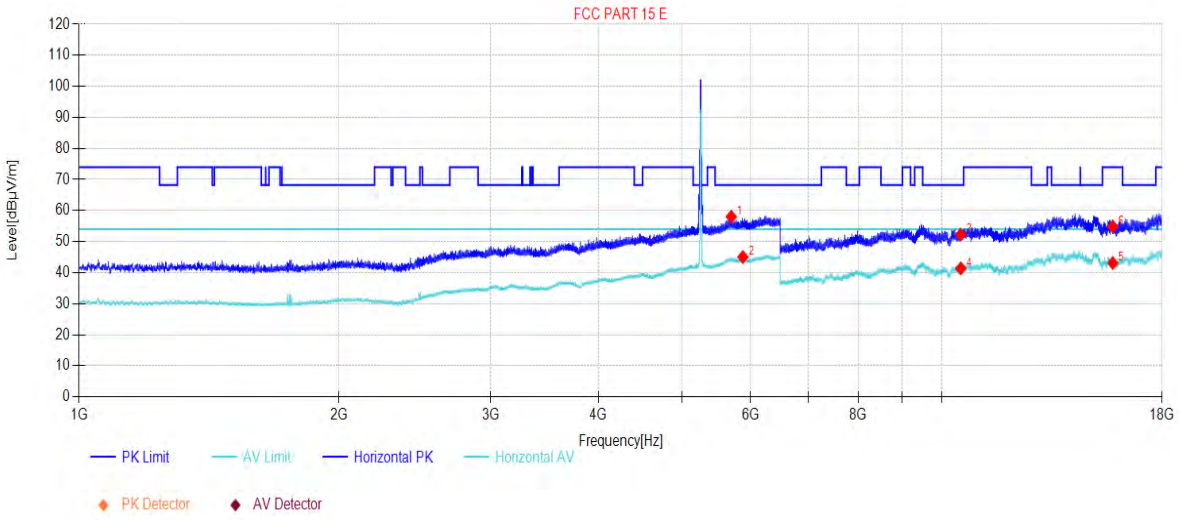
4.9.2.7 802.11A_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.98	58.03	16.91	68.20	10.17	154	266	Horizontal
2	5880.65	45.03	17.14	54.00	8.97	168	92	Horizontal
3	10520.0	52.22	2.45	68.20	15.98	154	46	Horizontal
4	10520.0	41.38	2.45	54.00	12.62	168	104	Horizontal
5	15780.0	43.11	5.30	54.00	10.89	178	260	Horizontal
6	15780.0	54.86	5.30	74.00	19.14	186	75	Horizontal

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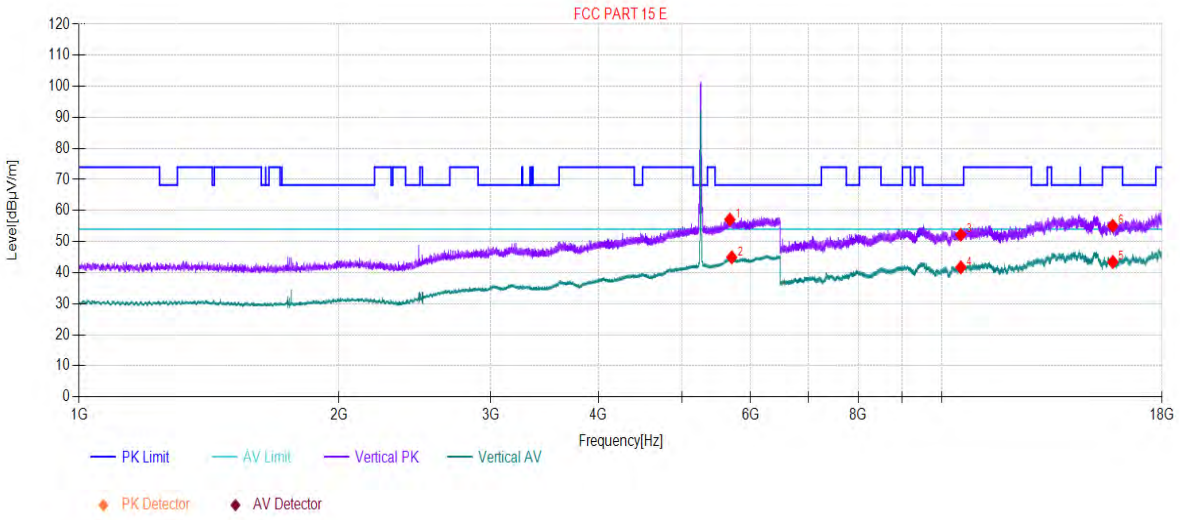
4.9.2.8 802.11A_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5679.34	57.13	16.78	68.20	11.07	245	99	Vertical
2	5708.31	44.94	16.90	54.00	9.06	261	99	Vertical
3	10520.0	52.22	2.45	68.20	15.98	269	20	Vertical
4	10520.0	41.72	2.45	54.00	12.28	235	125	Vertical
5	15780.0	43.44	5.30	54.00	10.56	248	242	Vertical
6	15780.0	55.10	5.30	74.00	18.90	263	290	Vertical

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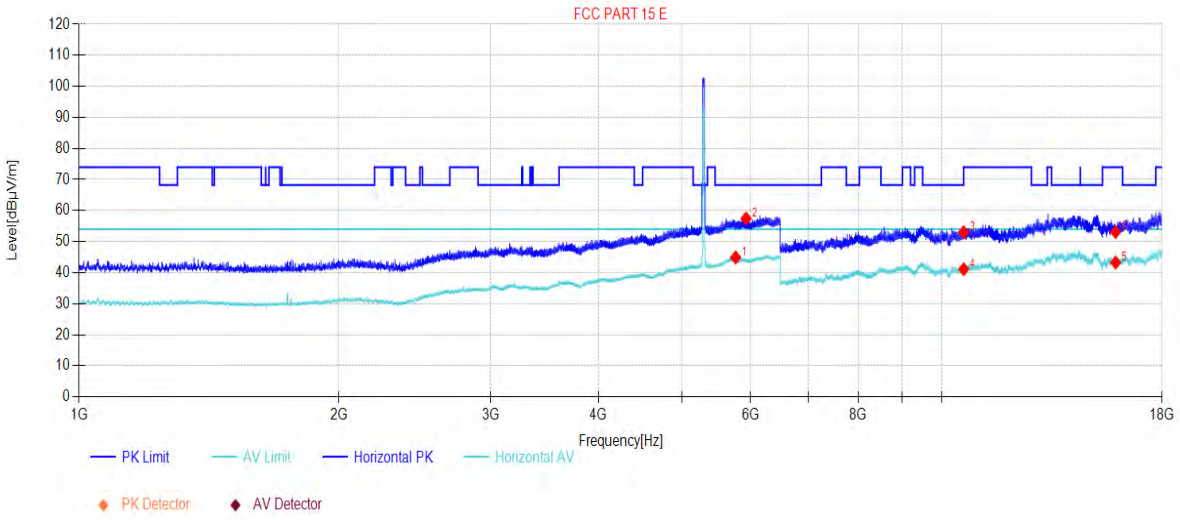
4.9.2.9 802.11A_Channel 60

Test Graph



Suspected List

Suspected List								
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1	5769.18	44.90	16.77	54.00	9.10	154	355	Horizontal
2	5930.52	57.42	17.26	68.20	10.78	135	348	Horizontal
3	10600.0	53.02	2.23	74.00	20.98	161	251	Horizontal
4	10600.0	41.13	2.23	54.00	12.87	178	242	Horizontal
5	15900.0	43.28	5.29	54.00	10.72	150	203	Horizontal
6	15900.0	53.11	5.29	74.00	20.89	191	86	Horizontal

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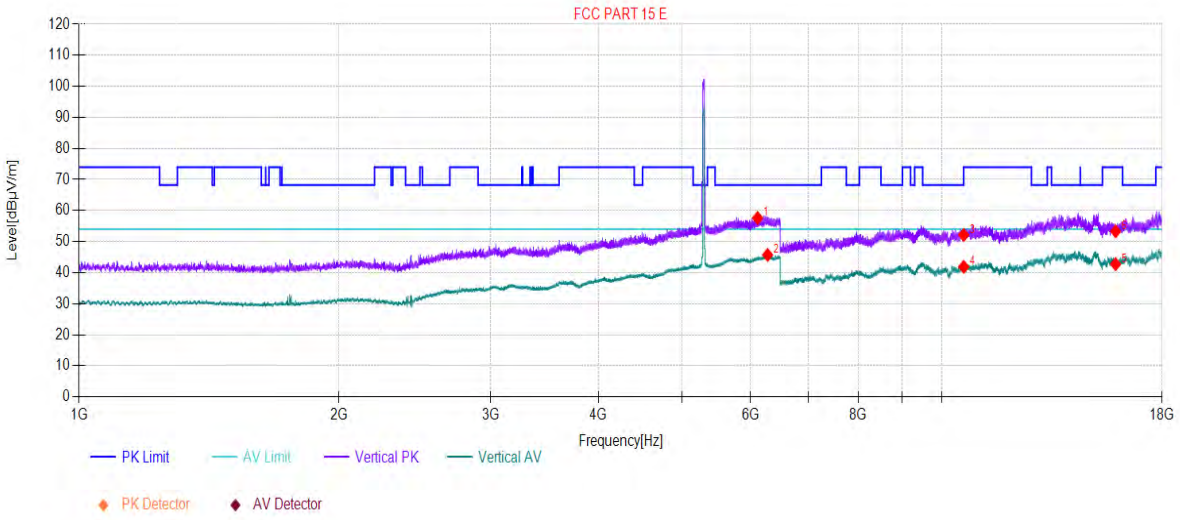
4.9.2.10 802.11A_Channel 60

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6116.44	57.59	17.81	68.20	10.61	214	93	Vertical
2	6281.08	45.73	18.39	54.00	8.27	231	93	Vertical
3	10600.0	52.14	2.23	74.00	21.86	255	222	Vertical
4	10600.0	41.89	2.23	54.00	12.11	265	309	Vertical
5	15900.0	42.75	5.29	54.00	11.25	278	115	Vertical
6	15900.0	53.32	5.29	74.00	20.68	291	115	Vertical

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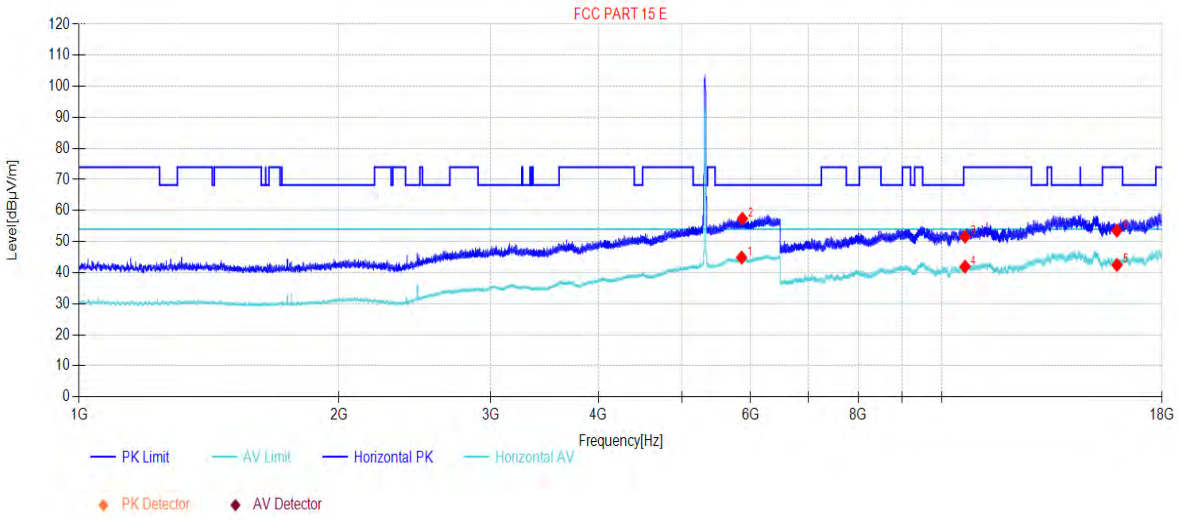
4.9.2.11 802.11A_Channel 64

Test Graph



Suspected List

Suspected List								
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1	5861.59	44.88	17.03	54.00	9.12	168	132	Horizontal
2	5872.95	57.39	17.09	68.20	10.81	167	235	Horizontal
3	10640.0	51.58	2.22	74.00	22.42	162	47	Horizontal
4	10640.0	41.96	2.22	54.00	12.04	145	289	Horizontal
5	15960.0	42.47	5.01	54.00	11.53	155	134	Horizontal
6	15960.0	53.54	5.01	74.00	20.46	162	240	Horizontal

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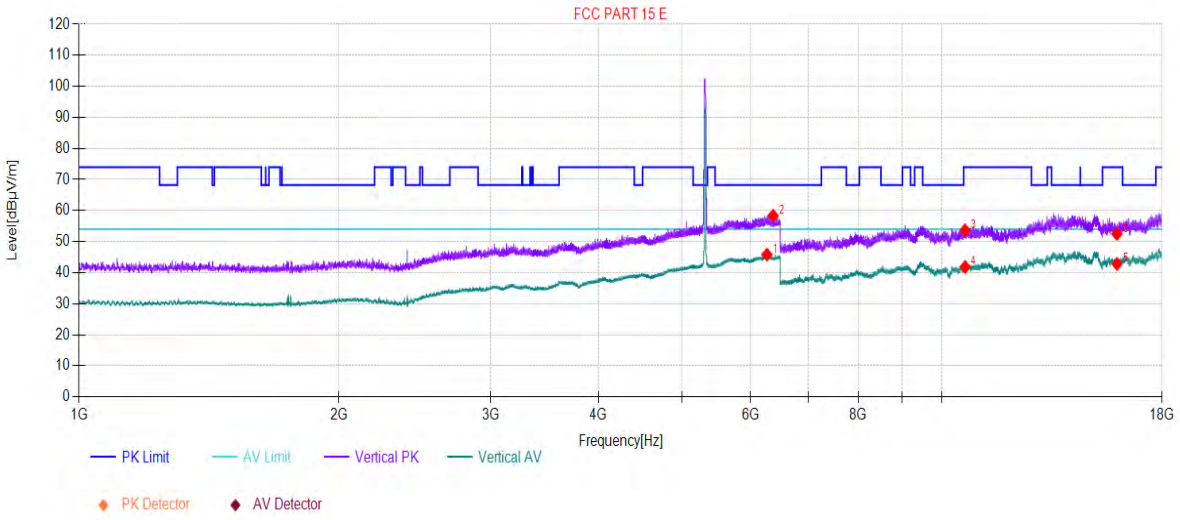
4.9.2.12 802.11A_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6270.08	45.80	18.34	54.00	8.20	245	298	Vertical
2	6374.22	58.33	18.24	68.20	9.87	267	160	Vertical
3	10640.0	53.65	2.22	74.00	20.35	271	357	Vertical
4	10640.0	41.83	2.22	54.00	12.17	268	221	Vertical
5	15960.0	42.82	5.01	54.00	11.18	261	202	Vertical
6	15960.0	52.48	5.01	74.00	21.52	244	182	Vertical

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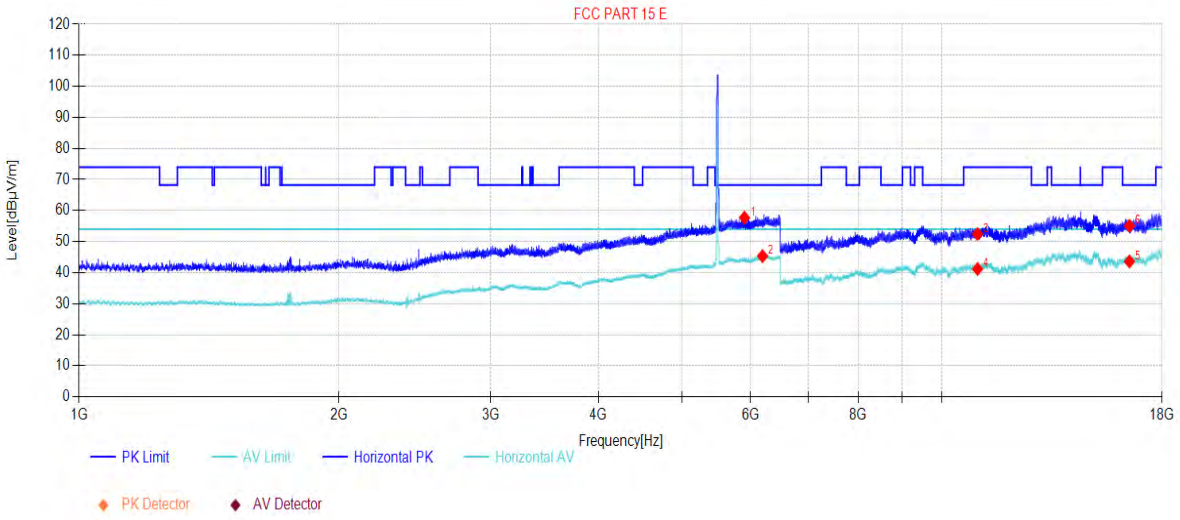
4.9.2.13 802.11A_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5905.59	57.71	17.24	68.20	10.49	167	182	Horizontal
2	6197.47	45.32	17.99	54.00	8.68	148	279	Horizontal
3	11000.0	52.43	2.74	74.00	21.57	168	134	Horizontal
4	11000.0	41.19	2.74	54.00	12.81	141	202	Horizontal
5	16500.0	43.61	5.09	54.00	10.39	162	105	Horizontal
6	16500.0	55.10	5.09	68.20	13.10	147	95	Horizontal

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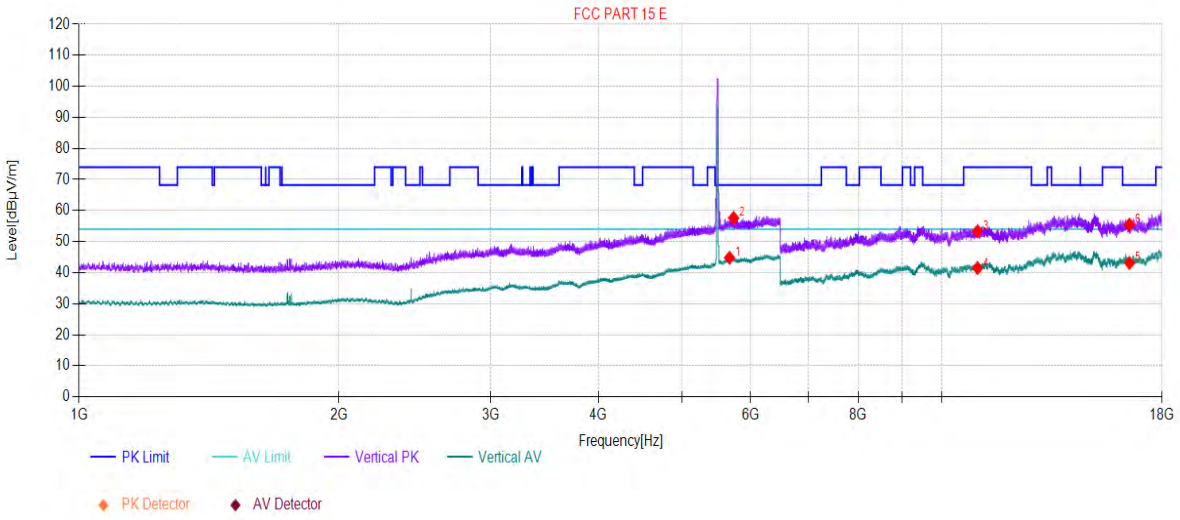
4.9.2.14 802.11A_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5674.57	44.79	16.75	54.00	9.21	271	65	Vertical
2	5735.81	57.61	16.84	68.20	10.59	264	266	Vertical
3	11000.0	53.34	2.74	74.00	20.66	248	299	Vertical
4	11000.0	41.49	2.74	54.00	12.51	241	164	Vertical
5	16500.0	43.13	5.09	54.00	10.87	269	270	Vertical
6	16500.0	55.48	5.09	68.20	12.72	241	68	Vertical

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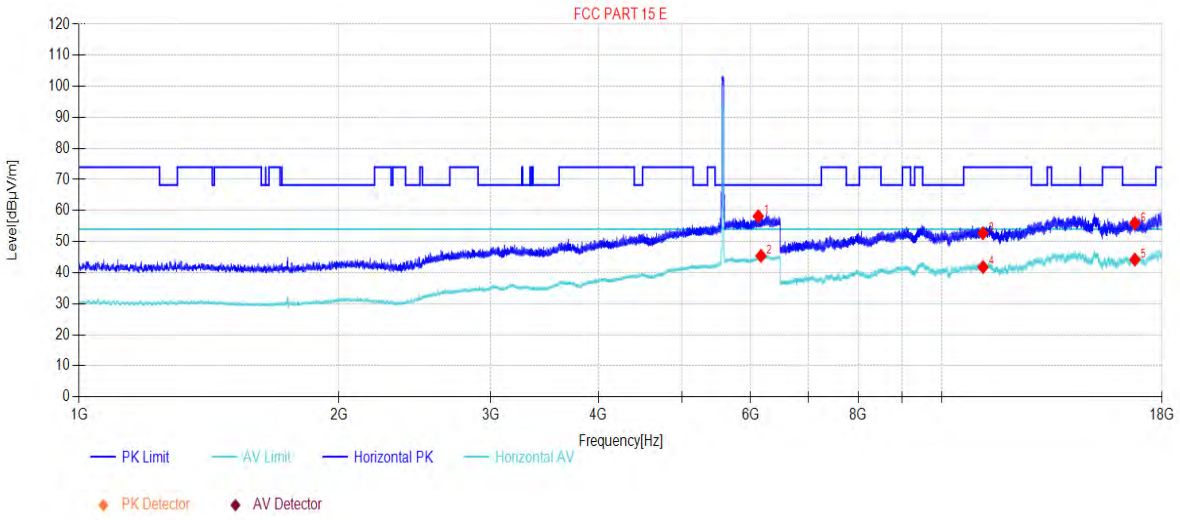
4.9.2.15 802.11A_Channel 116

Test Graph



Suspected List

Suspected List								
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1	6125.97	58.17	17.83	68.20	10.03	141	169	Horizontal
2	6171.07	45.42	17.93	54.00	8.58	150	9	Horizontal
3	11160.0	52.70	2.54	74.00	21.30	174	125	Horizontal
4	11160.0	41.82	2.54	54.00	12.18	135	174	Horizontal
5	16740.0	44.22	5.53	54.00	9.78	174	57	Horizontal
6	16740.0	55.92	5.53	68.20	12.28	168	357	Horizontal

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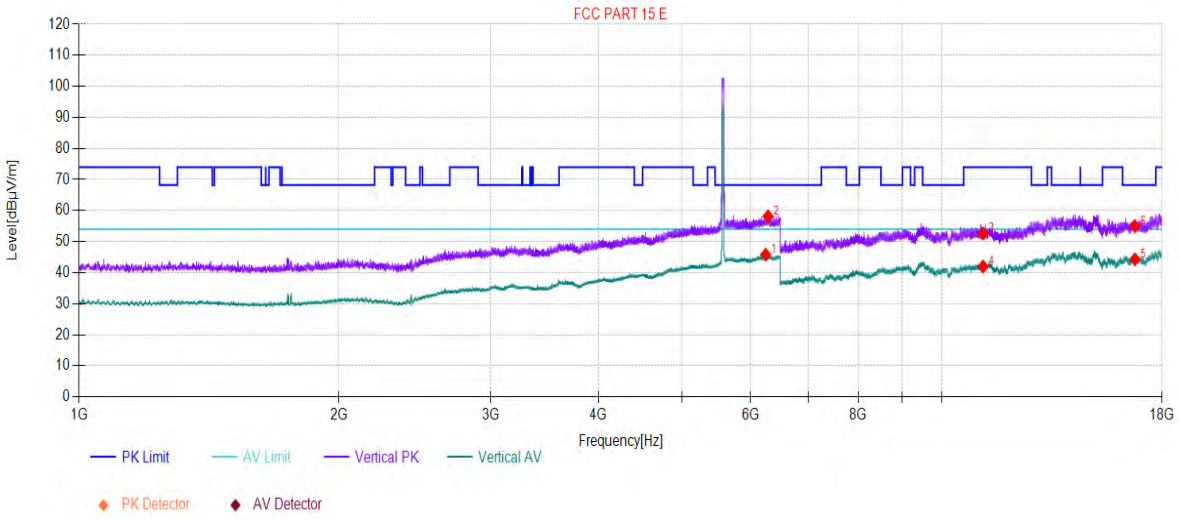
4.9.2.16 802.11A_Channel 116

Test Graph



Suspected List

Suspected List								
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1	6247.34	45.80	18.23	54.00	8.20	214	43	Vertical
2	6289.15	58.13	18.43	68.20	10.07	231	3	Vertical
3	11160.0	52.56	2.54	74.00	21.44	241	319	Vertical
4	11160.0	41.96	2.54	54.00	12.04	267	357	Vertical
5	16740.0	44.31	5.53	54.00	9.69	249	145	Vertical
6	16740.0	54.98	5.53	68.20	13.22	284	125	Vertical

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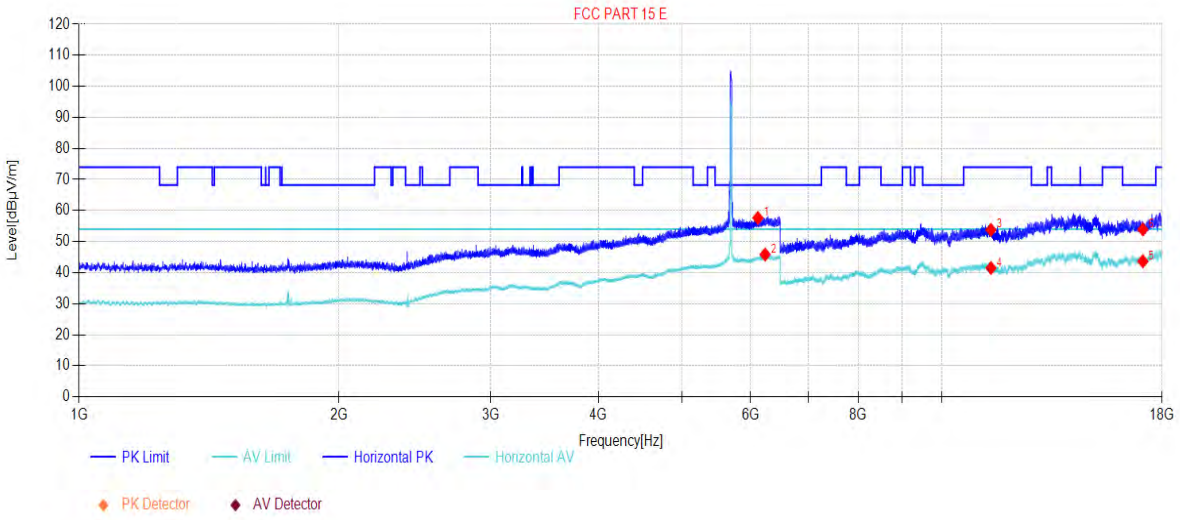
4.9.2.17 802.11A_Channel 140

Test Graph



Suspected List

Suspected List								
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1	6120.84	57.62	17.82	68.20	10.58	148	3	Horizontal
2	6240.01	45.84	18.19	54.00	8.16	162	126	Horizontal
3	11400.0	53.80	2.54	74.00	20.20	174	125	Horizontal
4	11400.0	41.49	2.54	54.00	12.51	168	125	Horizontal
5	17100.0	43.67	5.72	54.00	10.33	142	182	Horizontal
6	17100.0	53.93	5.72	68.20	14.27	131	309	Horizontal

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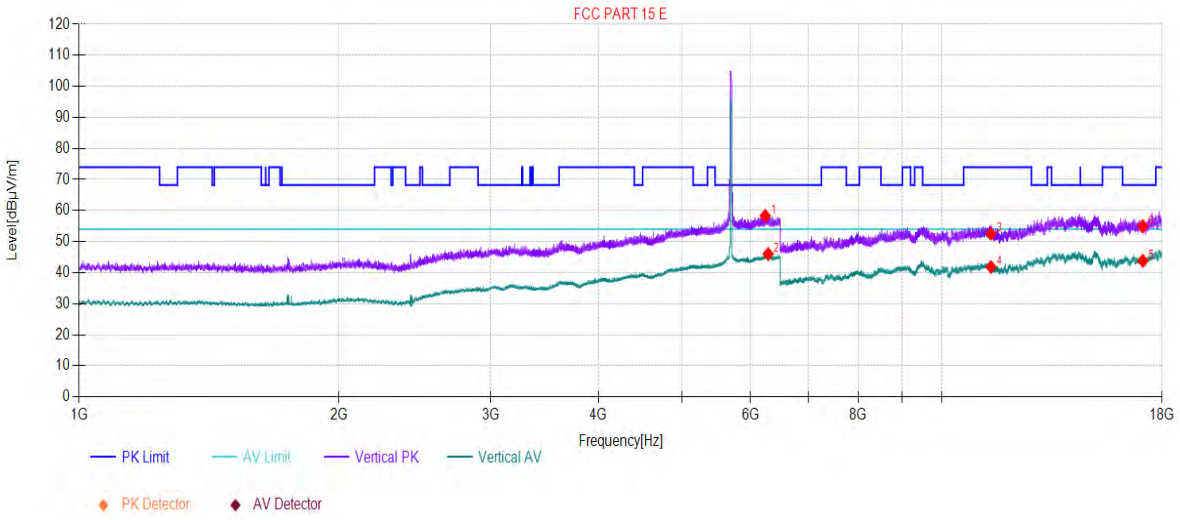
4.9.2.18 802.11A_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6242.21	58.32	18.20	68.20	9.88	278	306	Vertical
2	6289.88	46.02	18.44	54.00	7.98	248	279	Vertical
3	11400.0	52.54	2.54	74.00	21.46	268	338	Vertical
4	11400.0	41.84	2.54	54.00	12.16	247	153	Vertical
5	17100.0	43.81	5.72	54.00	10.19	268	251	Vertical
6	17100.0	54.94	5.72	68.20	13.26	244	182	Vertical

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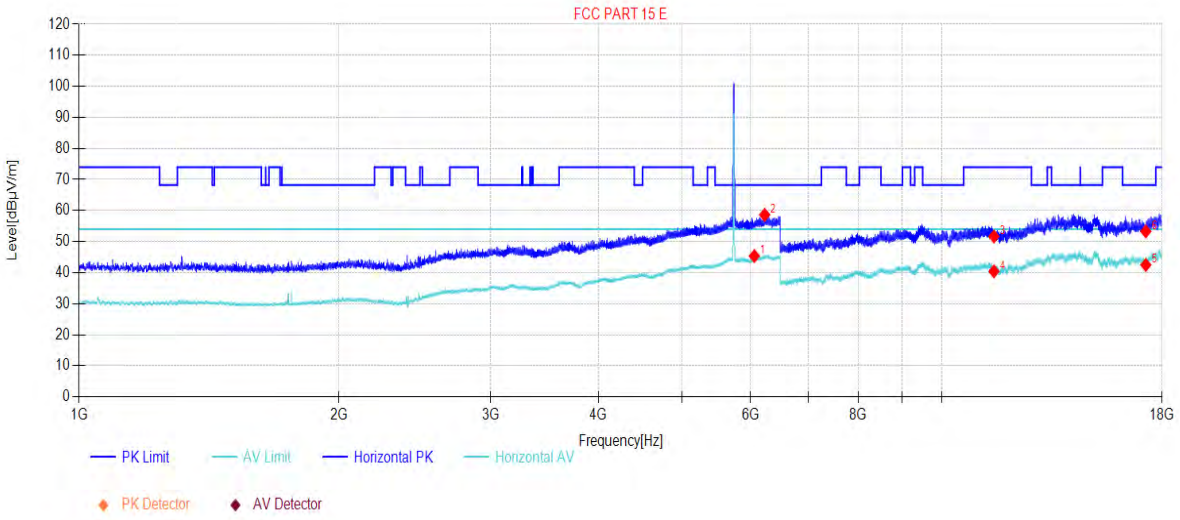
4.9.2.19 802.11A_Channel 149

Test Graph



Suspected List

Suspected List								
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1	6063.27	45.36	17.60	54.00	8.64	164	301	Horizontal
2	6233.41	58.61	18.16	68.20	9.59	117	239	Horizontal
3	11490.0	51.67	2.10	74.00	22.33	155	184	Horizontal
4	11490.0	40.42	2.10	54.00	13.58	162	50	Horizontal
5	17235.0	42.49	6.10	54.00	11.51	146	2	Horizontal
6	17235.0	53.28	6.10	68.20	14.92	168	222	Horizontal

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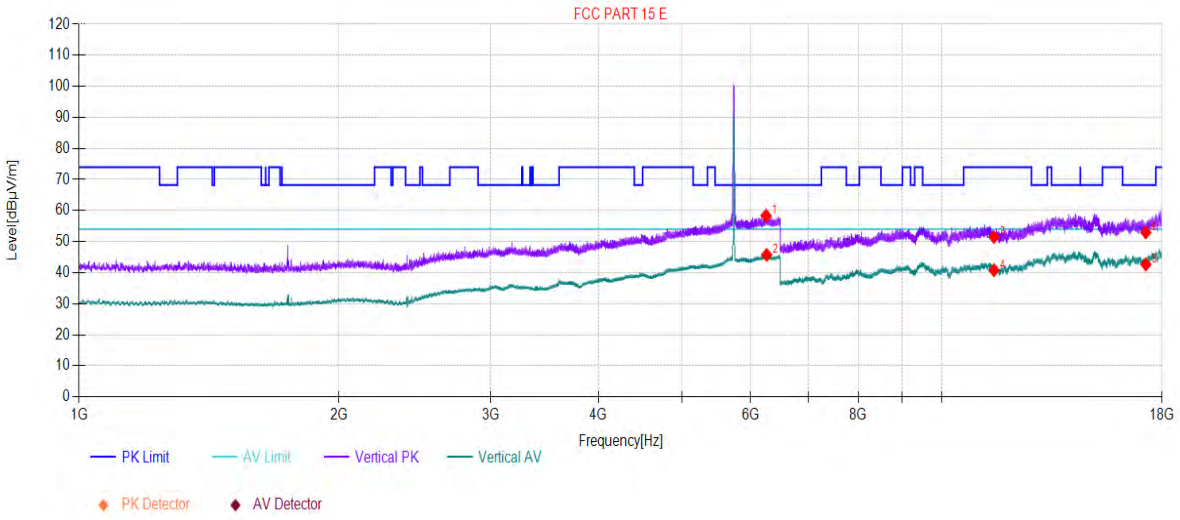
4.9.2.20 802.11A_Channel 149

Test Graph



Suspected List

Suspected List								
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1	6255.41	58.36	18.27	68.20	9.84	165	86	Vertical
2	6266.05	45.73	18.32	54.00	8.27	148	328	Vertical
3	11490.0	51.49	2.10	74.00	22.51	168	202	Vertical
4	11490.0	40.81	2.10	54.00	13.19	144	154	Vertical
5	17235.0	42.68	6.10	54.00	11.32	166	299	Vertical
6	17235.0	52.98	6.10	68.20	15.22	148	270	Vertical

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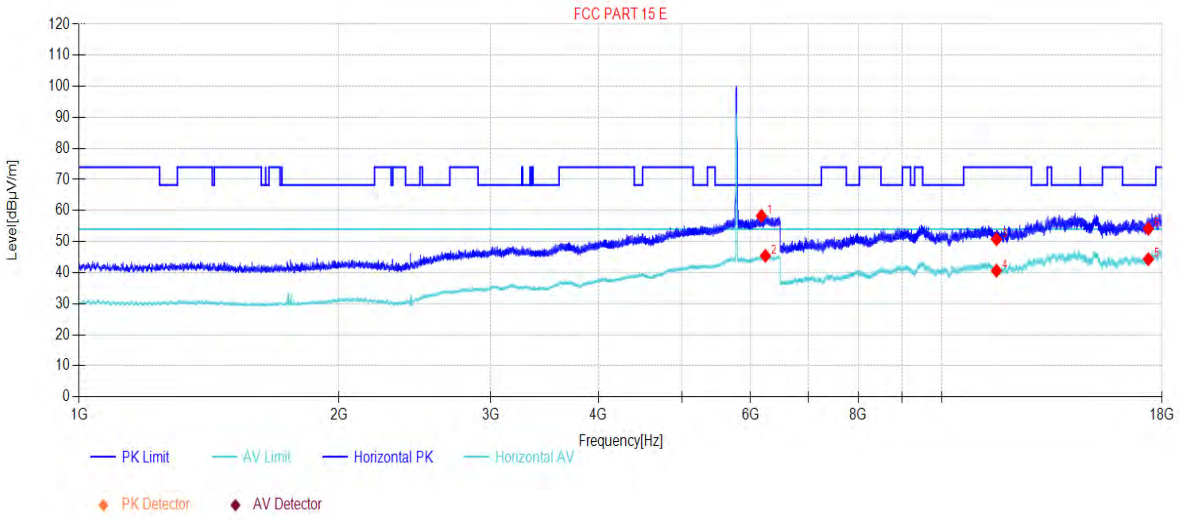
4.9.2.21 802.11A_Channel 157

Test Graph



Suspected List

Suspected List								
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1	6179.14	58.29	17.95	68.20	9.91	162	3	Horizontal
2	6244.41	45.43	18.22	54.00	8.57	135	231	Horizontal
3	11570.0	50.80	2.92	74.00	23.20	145	164	Horizontal
4	11570.0	40.63	2.92	54.00	13.37	152	125	Horizontal
5	17355.0	44.36	6.75	54.00	9.64	162	192	Horizontal
6	17355.0	54.14	6.75	68.20	14.06	182	183	Horizontal

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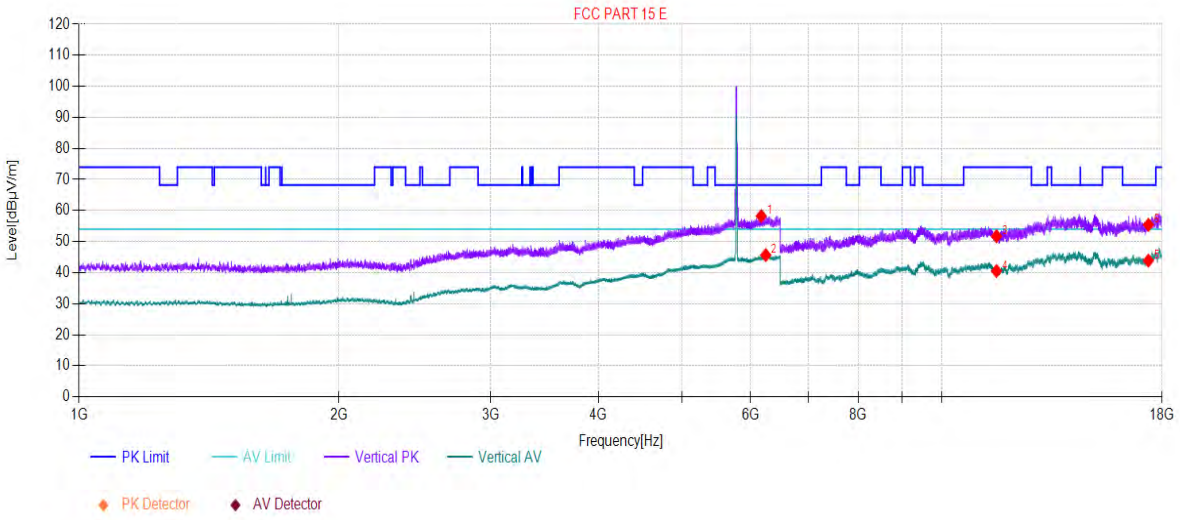
4.9.2.22 802.11A_Channel 157

Test Graph



Suspected List

Suspected List								
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1	6175.11	58.24	17.94	68.20	9.96	241	356	Vertical
2	6249.91	45.67	18.24	54.00	8.33	263	293	Vertical
3	11570.0	51.73	2.92	74.00	22.27	281	144	Vertical
4	11570.0	40.53	2.92	54.00	13.47	296	183	Vertical
5	17355.0	43.89	6.75	54.00	10.11	246	8	Vertical
6	17355.0	55.43	6.75	68.20	12.77	301	357	Vertical

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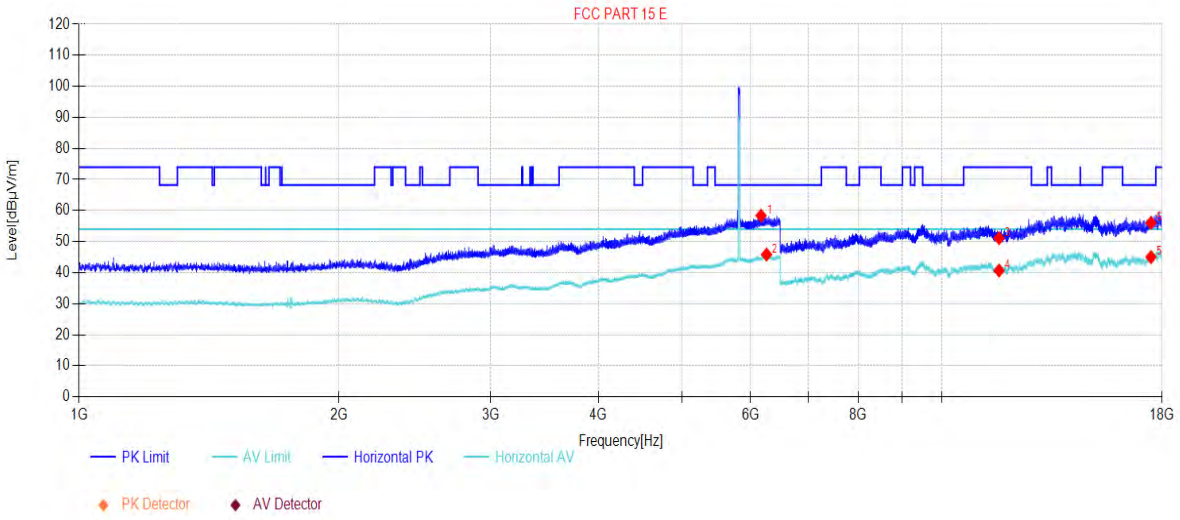
4.9.2.23 802.11A_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6172.91	58.38	17.94	68.20	9.82	153	265	Horizontal
2	6263.11	45.83	18.31	54.00	8.17	121	340	Horizontal
3	11650.0	51.15	2.58	74.00	22.85	161	9	Horizontal
4	11650.0	40.70	2.58	54.00	13.30	162	57	Horizontal
5	17475.0	45.03	7.42	54.00	8.97	187	193	Horizontal
6	17475.0	56.04	7.42	68.20	12.16	162	261	Horizontal

Final Data List

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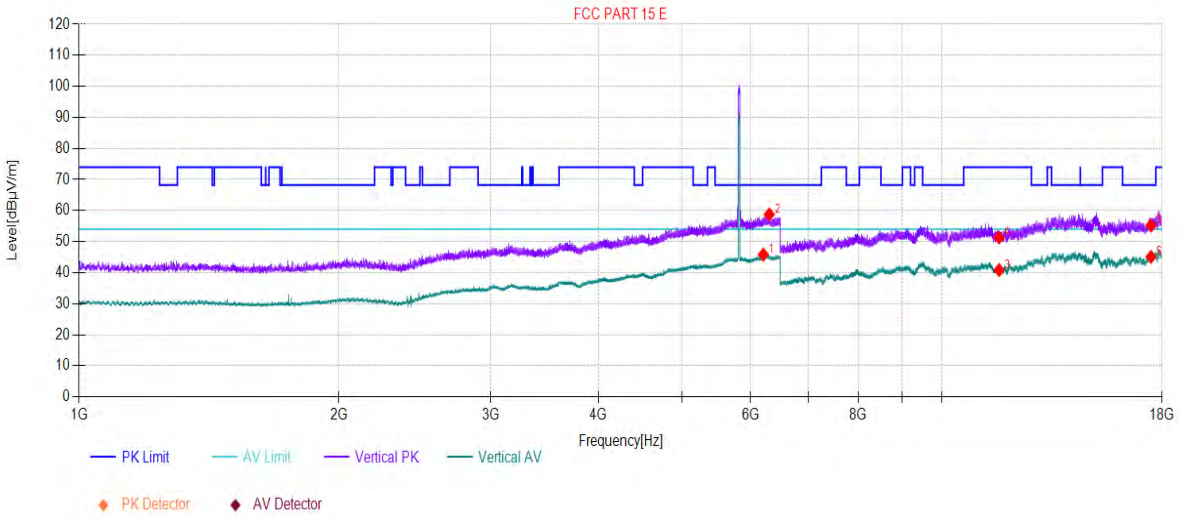
4.9.2.24 802.11A_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6209.21	45.81	18.04	54.00	8.19	284	64	Vertical
2	6309.68	58.76	18.45	68.20	9.44	246	30	Vertical
3	11650.0	40.85	2.58	54.00	13.15	248	357	Vertical
4	11650.0	51.33	2.58	74.00	22.67	269	320	Vertical
5	17475.0	55.18	7.42	68.20	13.02	244	310	Vertical
6	17475.0	45.10	7.42	54.00	8.90	249	320	Vertical

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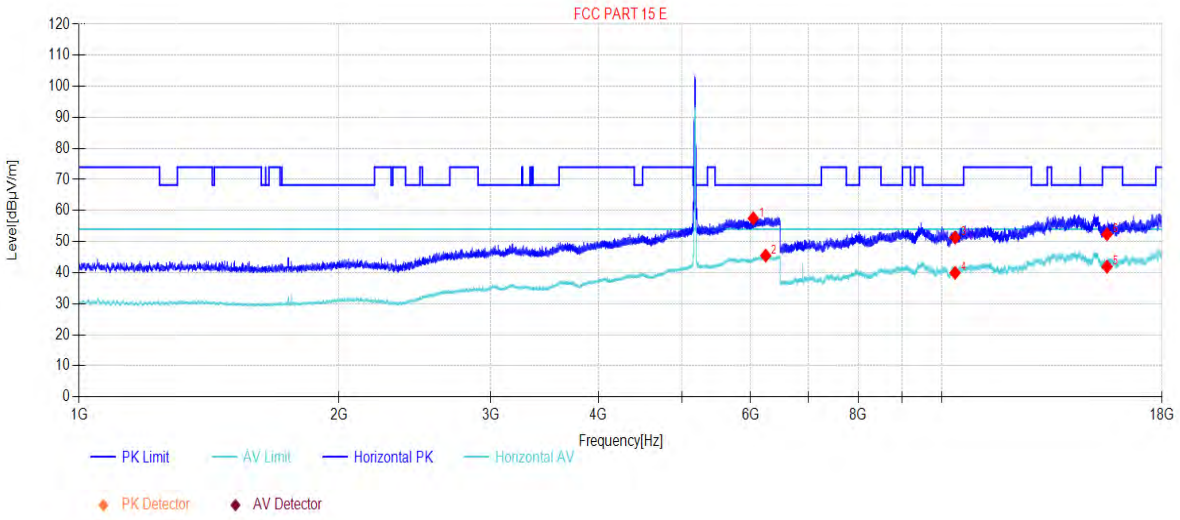
4.9.2.25 802.11N20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6045.30	57.49	17.52	68.20	10.71	168	278	Horizontal
2	6249.18	45.51	18.24	54.00	8.49	163	341	Horizontal
3	10360.0	51.33	2.38	68.20	16.87	218	30	Horizontal
4	10360.0	39.94	2.38	54.00	14.06	143	242	Horizontal
5	15540.0	41.93	5.88	54.00	12.07	150	107	Horizontal
6	15540.0	52.37	5.88	74.00	21.63	187	290	Horizontal

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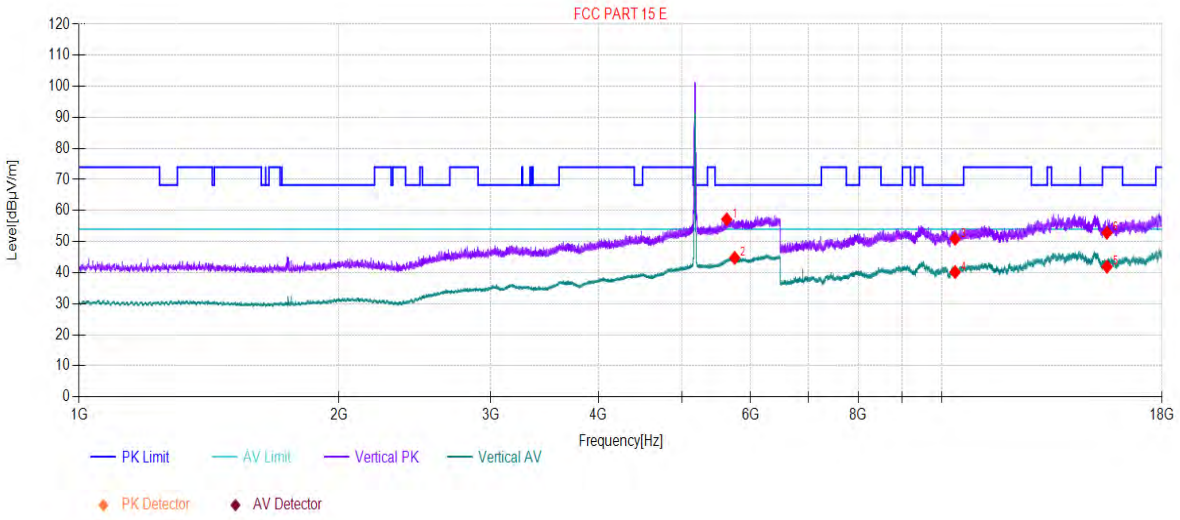
4.9.2.26 802.11N20_Channel 36

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5632.04	57.18	16.46	68.20	11.02	246	314	Vertical
2	5752.31	44.77	16.81	54.00	9.23	248	280	Vertical
3	10360.0	50.92	2.38	68.20	17.28	262	240	Vertical
4	10360.0	40.18	2.38	54.00	13.82	238	299	Vertical
5	15540.0	41.90	5.88	54.00	12.10	278	36	Vertical
6	15540.0	52.85	5.88	74.00	21.15	291	152	Vertical

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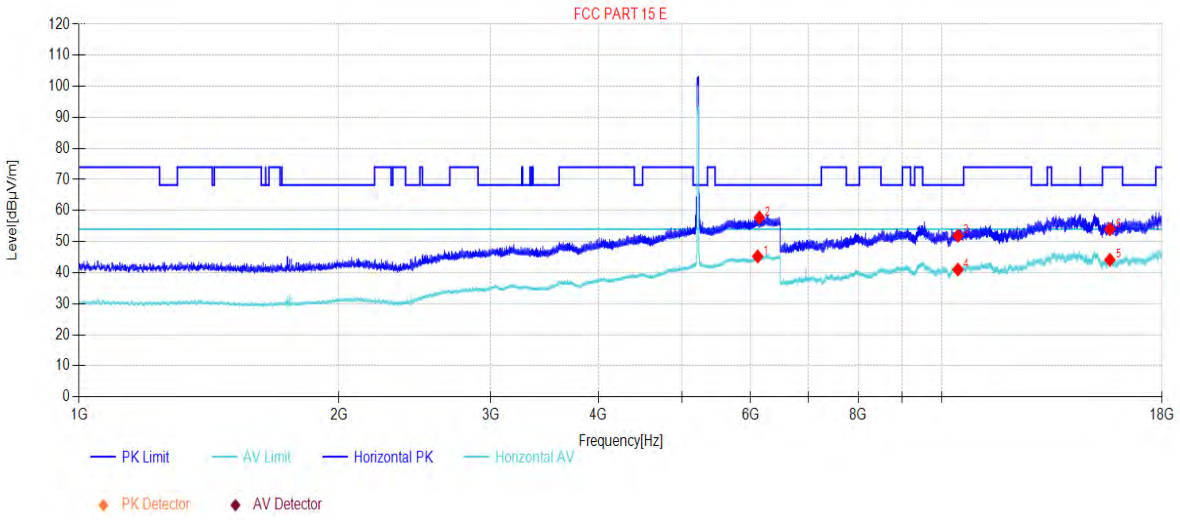
4.9.2.27 802.11N20_Channel 44

Test Graph



Suspected List

Suspected List								
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1	6117.	45.24	17.81	54.00	8.76	132	224	Horizontal
2	6145.40	57.74	17.88	68.20	10.46	167	92	Horizontal
3	10440.0	51.87	2.46	68.20	16.33	168	61	Horizontal
4	10440.0	41.00	2.46	54.00	13.00	151	348	Horizontal
5	15660.0	44.12	6.12	54.00	9.88	198	310	Horizontal
6	15660.0	53.99	6.12	74.00	20.01	146	262	Horizontal

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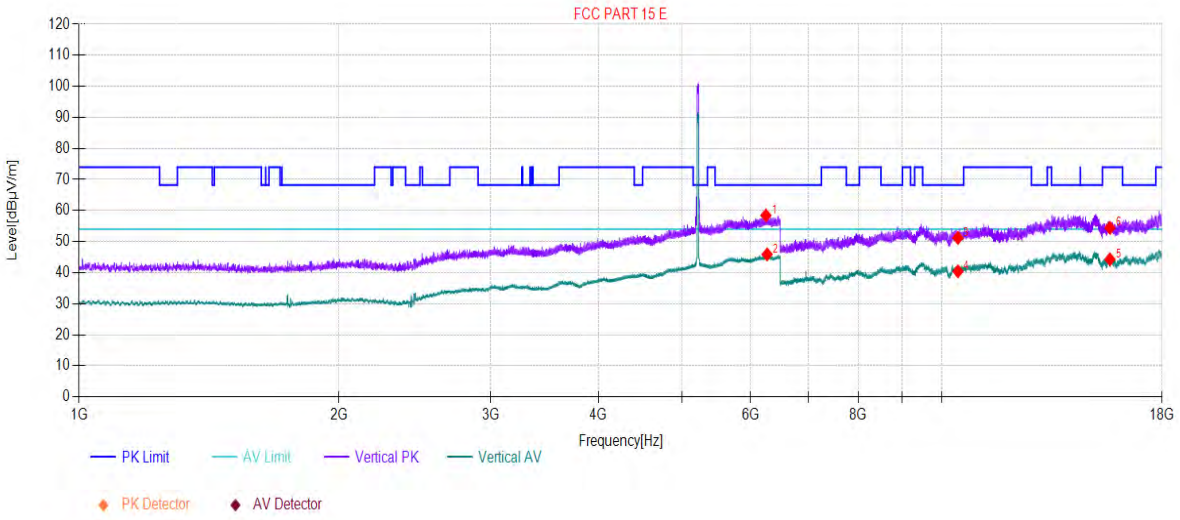
4.9.2.28 802.11N20_Channel 44

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6253.95	58.44	18.26	68.20	9.76	245	236	Vertical
2	6273.01	45.87	18.35	54.00	8.13	216	332	Vertical
3	10440.0	51.22	2.46	68.20	16.98	248	347	Vertical
4	10440.0	40.43	2.46	54.00	13.57	261	48	Vertical
5	15660.0	44.31	6.12	54.00	9.69	248	126	Vertical
6	15660.0	54.47	6.12	74.00	19.53	268	290	Vertical

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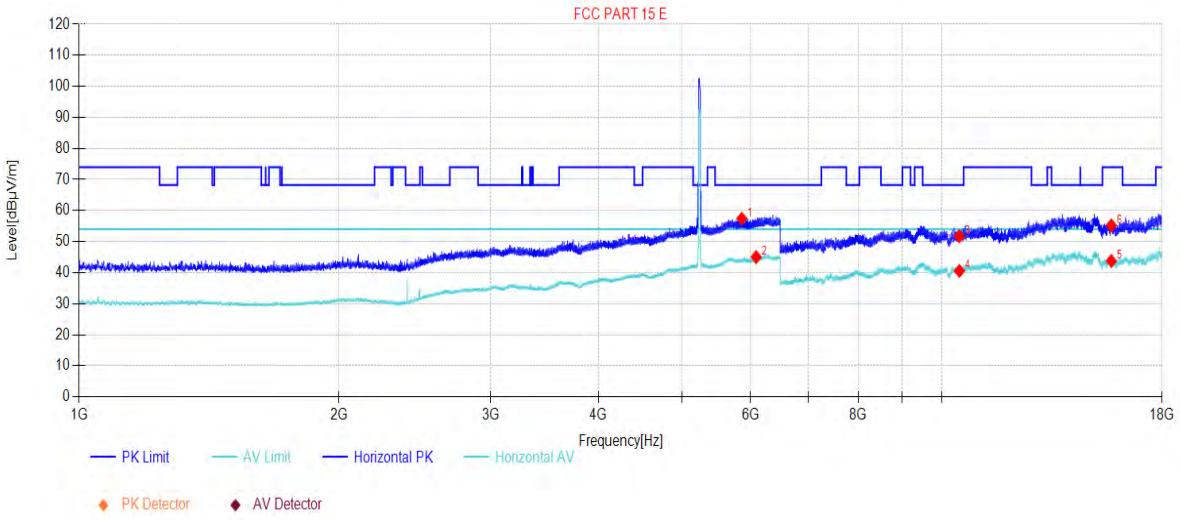
4.9.2.29 802.11N20_Channel 48

Test Graph



Suspected List

Suspected List								
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1	5863.79	57.39	17.05	68.20	10.81	154	334	Horizontal
2	6092.60	45.03	17.74	54.00	8.97	164	181	Horizontal
3	10480.0	51.75	2.49	68.20	16.45	115	164	Horizontal
4	10480.0	40.58	2.49	54.00	13.42	135	232	Horizontal
5	15720.0	43.76	5.92	54.00	10.24	164	2	Horizontal
6	15720.0	55.17	5.92	74.00	18.83	166	348	Horizontal

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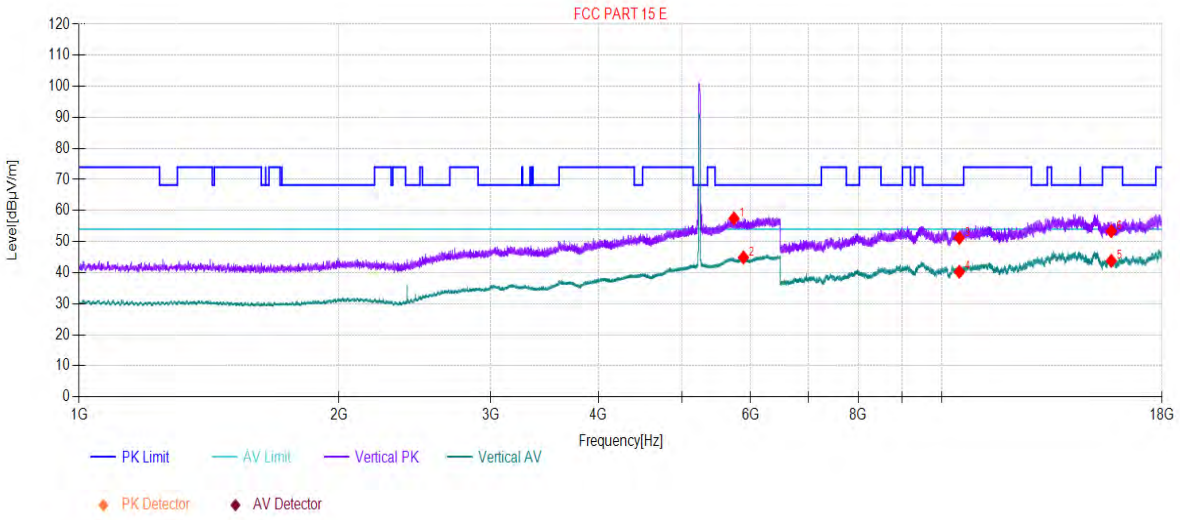
4.9.2.30 802.11N20_Channel 48

Test Graph



Suspected List

Suspected List								
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1	5742.04	57.46	16.83	68.20	10.74	241	153	Vertical
2	5889.09	44.90	17.18	54.00	9.10	261	112	Vertical
3	10480.0	51.22	2.49	68.20	16.98	245	299	Vertical
4	10480.0	40.27	2.49	54.00	13.73	261	78	Vertical
5	15720.0	43.78	5.92	54.00	10.22	248	184	Vertical
6	15720.0	53.34	5.92	74.00	20.66	268	126	Vertical

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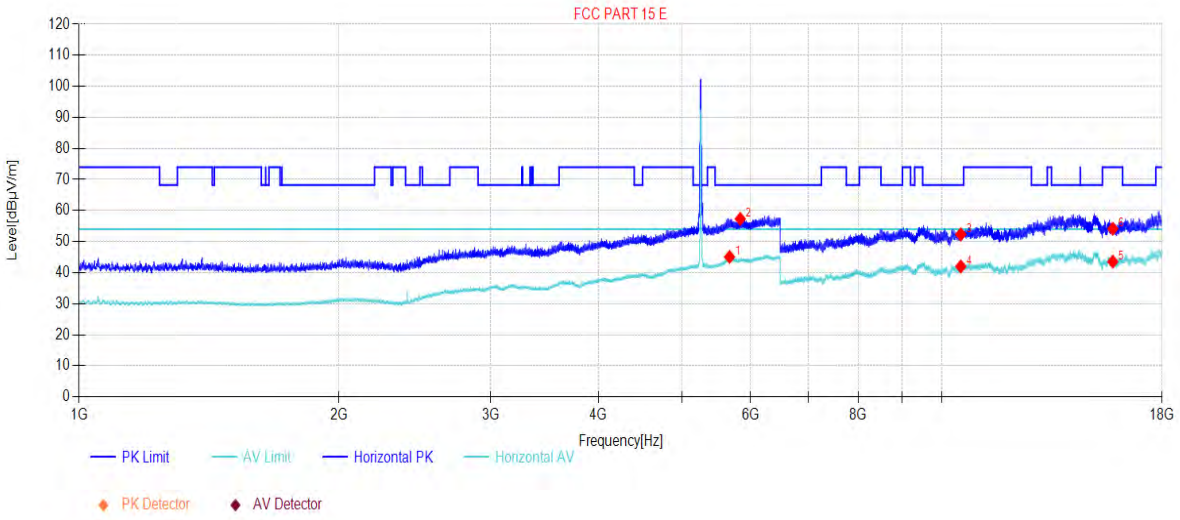
4.9.2.31 802.11N20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5674.94	45.08	16.75	54.00	8.92	189	154	Horizontal
2	5838.85	57.32	16.91	68.20	10.88	181	168	Horizontal
3	10520.0	52.32	2.45	68.20	15.88	149	28	Horizontal
4	10520.0	42.00	2.45	54.00	12.00	168	202	Horizontal
5	15780.0	43.57	5.30	54.00	10.43	141	47	Horizontal
6	15780.0	54.14	5.30	74.00	19.86	166	251	Horizontal

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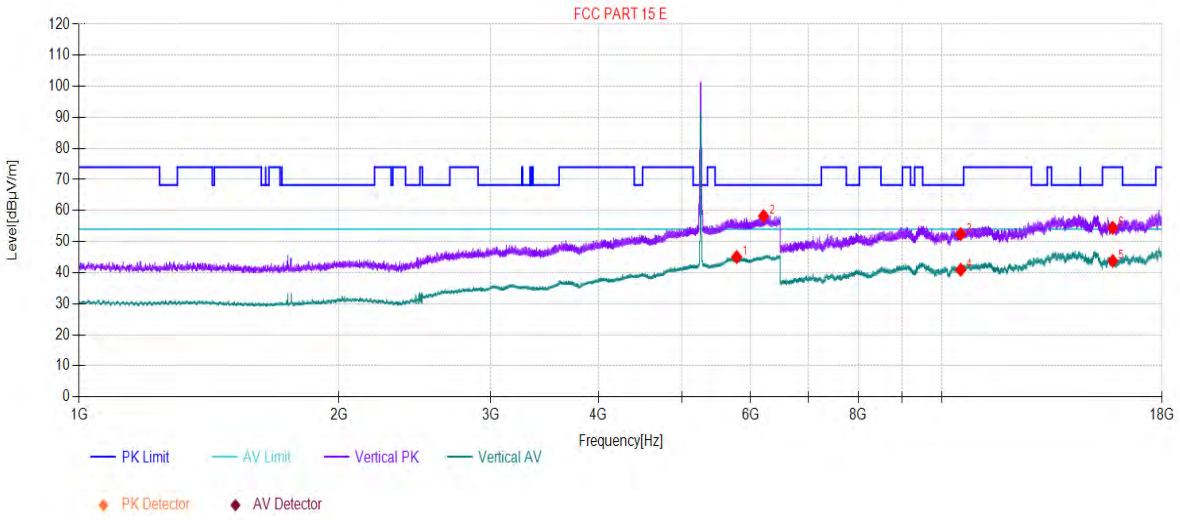
4.9.2.32 802.11N20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5784.21	45.05	16.74	54.00	8.95	245	3	Vertical
2	6215.08	58.23	18.07	68.20	9.97	235	300	Vertical
3	10520.0	52.42	2.45	68.20	15.78	241	125	Vertical
4	10520.0	40.94	2.45	54.00	13.06	261	144	Vertical
5	15780.0	43.76	5.30	54.00	10.24	248	48	Vertical
6	15780.0	54.41	5.30	74.00	19.59	281	357	Vertical

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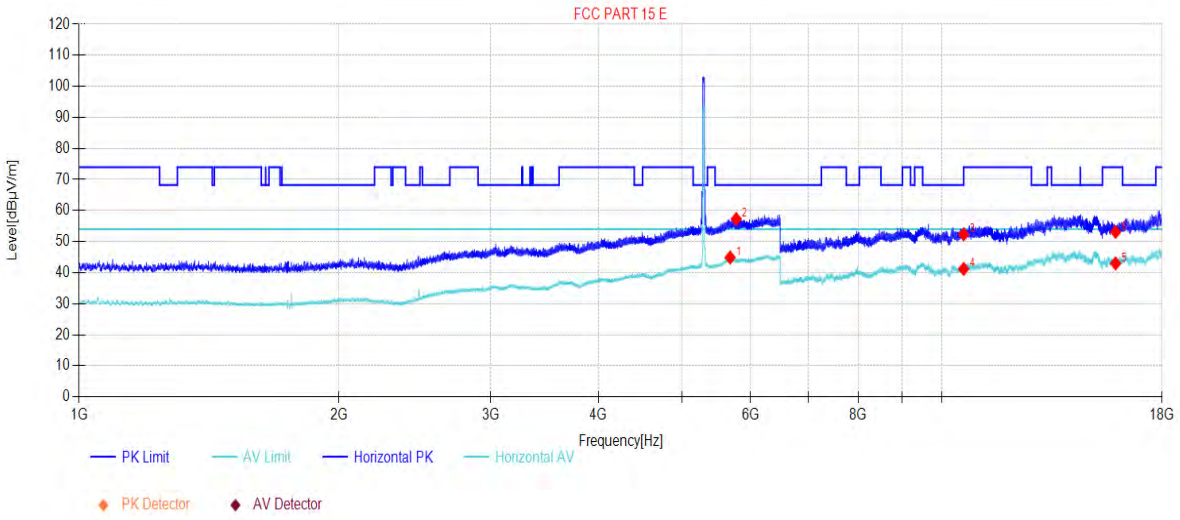
4.9.2.33 802.11N20_Channel 60

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5683.74	44.89	16.81	54.00	9.11	154	30	Horizontal
2	5776.88	57.30	16.75	68.20	10.90	165	335	Horizontal
3	10600.0	52.34	2.23	74.00	21.66	148	125	Horizontal
4	10600.0	41.23	2.23	54.00	12.77	168	357	Horizontal
5	15900.0	42.99	5.29	54.00	11.01	148	241	Horizontal
6	15900.0	53.11	5.29	74.00	20.89	174	203	Horizontal

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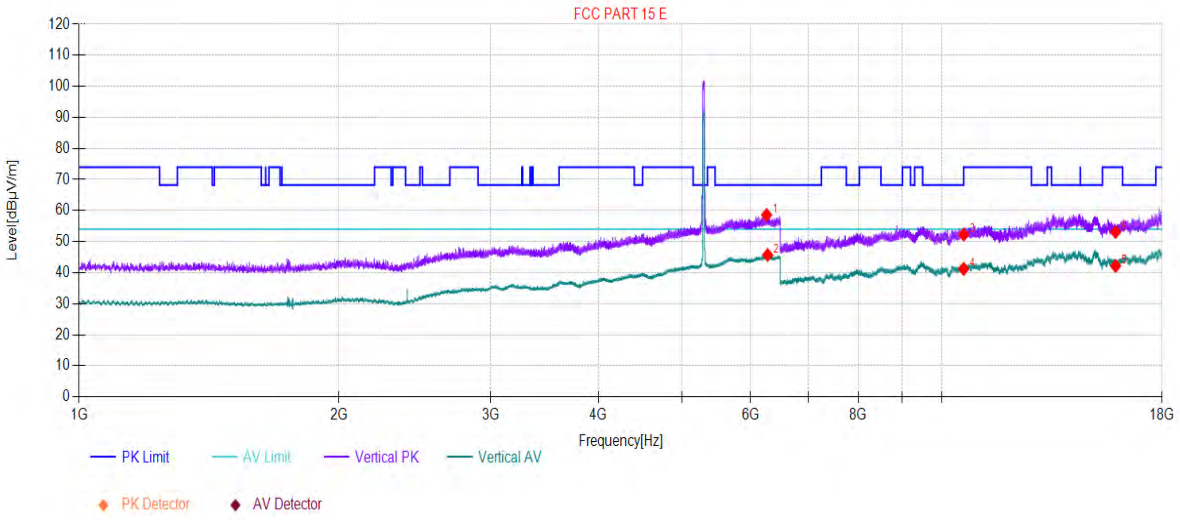
4.9.2.34 802.11N20_Channel 60

Test Graph



Suspected List

Suspected List								
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1	6264.21	58.59	18.31	68.20	9.61	248	51	Vertical
2	6281.45	45.70	18.40	54.00	8.30	268	237	Vertical
3	10600.0	52.26	2.23	74.00	21.74	248	56	Vertical
4	10600.0	41.23	2.23	54.00	12.77	244	221	Vertical
5	15900.0	42.18	5.29	54.00	11.82	255	95	Vertical
6	15900.0	53.10	5.29	74.00	20.90	268	309	Vertical

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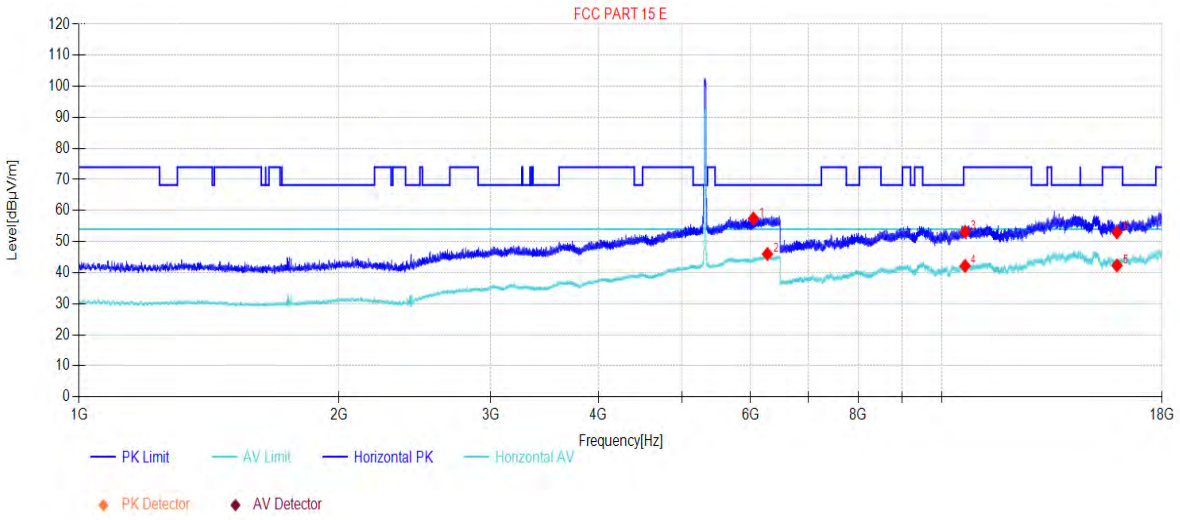
4.9.2.35 802.11N20_Channel 64

Test Graph



Suspected List

Suspected List								
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1	6048.60	57.45	17.53	68.20	10.75	136	72	Horizontal
2	6279.61	46.01	18.39	54.00	7.99	146	307	Horizontal
3	10640.0	53.17	2.22	74.00	20.83	151	300	Horizontal
4	10640.0	42.18	2.22	54.00	11.82	187	339	Horizontal
5	15960.0	42.32	5.01	54.00	11.68	168	86	Horizontal
6	15960.0	52.99	5.01	74.00	21.01	184	319	Horizontal

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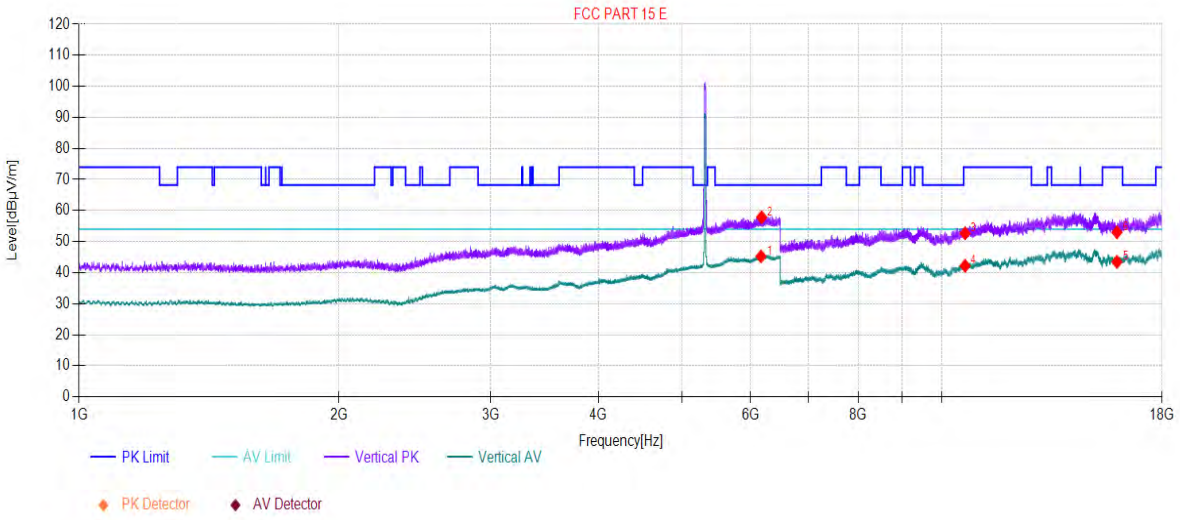
4.9.2.36 802.11N20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6172.91	45.24	17.94	54.00	8.76	248	78	Vertical
2	6182.44	57.83	17.96	68.20	10.37	261	50	Vertical
3	10640.0	52.66	2.22	74.00	21.34	284	270	Vertical
4	10640.0	42.22	2.22	54.00	11.78	281	310	Vertical
5	15960.0	43.48	5.01	54.00	10.52	264	112	Vertical
6	15960.0	53.00	5.01	74.00	21.00	248	74	Vertical

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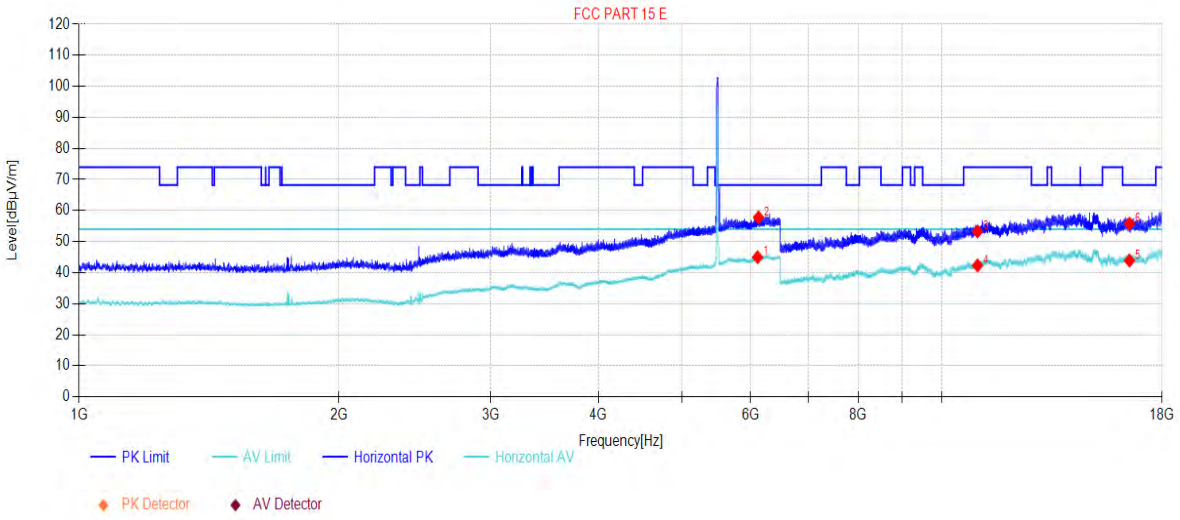
4.9.2.37 802.11N20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6115.34	44.99	17.81	54.00	9.01	146	85	Horizontal
2	6130.74	57.77	17.84	68.20	10.43	168	29	Horizontal
3	11000.0	53.25	2.74	74.00	20.75	189	357	Horizontal
4	11000.0	42.32	2.74	54.00	11.68	148	318	Horizontal
5	16500.0	43.92	5.09	54.00	10.08	128	328	Horizontal
6	16500.0	55.78	5.09	68.20	12.42	174	144	Horizontal

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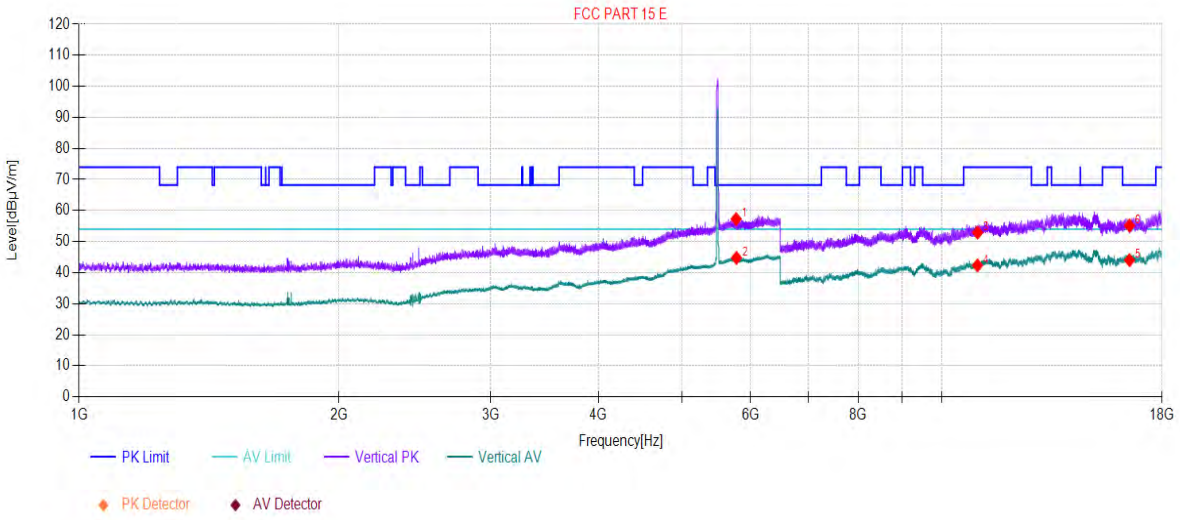
4.9.2.38 802.11N20_Channel 100

Test Graph



Suspected List

Suspected List								
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1	5775.78	57.26	16.76	68.20	10.94	245	141	Vertical
2	5780.55	44.75	16.75	54.00	9.25	261	100	Vertical
3	11000.0	52.93	2.74	74.00	21.07	248	202	Vertical
4	11000.0	42.33	2.74	54.00	11.67	269	299	Vertical
5	16500.0	44.04	5.09	54.00	9.96	249	105	Vertical
6	16500.0	55.15	5.09	68.20	13.05	241	290	Vertical

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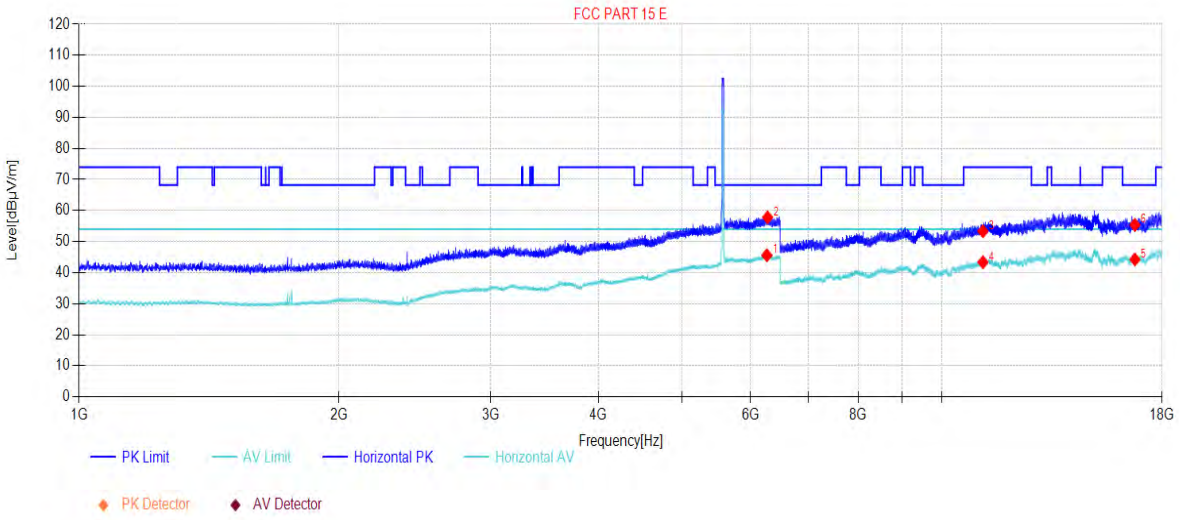
4.9.2.39 802.11N20_Channel 116

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6268.98	45.61	18.33	54.00	8.39	148	225	Horizontal
2	6281.81	57.82	18.40	68.20	10.38	161	170	Horizontal
3	11160.0	53.34	2.54	74.00	20.66	154	76	Horizontal
4	11160.0	43.36	2.54	54.00	10.64	135	37	Horizontal
5	16740.0	44.26	5.53	54.00	9.74	124	250	Horizontal
6	16740.0	55.39	5.53	68.20	12.81	168	46	Horizontal

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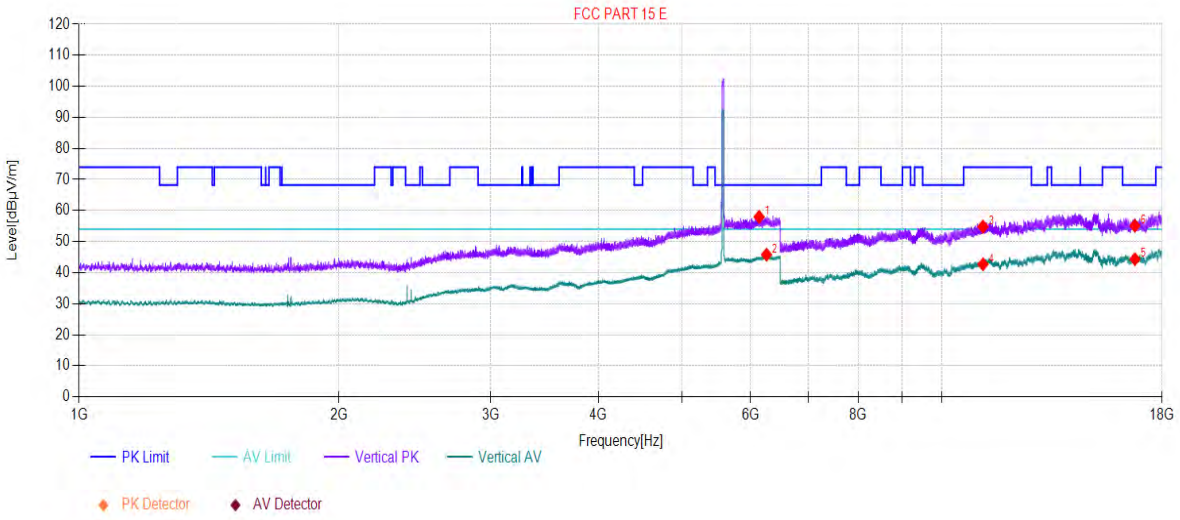
4.9.2.40 802.11N20_Channel 116

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6141.37	57.98	17.87	68.20	10.22	248	273	Vertical
2	6263.48	45.79	18.31	54.00	8.21	261	30	Vertical
3	11160.0	54.83	2.54	74.00	19.17	234	54	Vertical
4	11160.0	42.71	2.54	54.00	11.29	278	309	Vertical
5	16740.0	44.34	5.53	54.00	9.66	269	192	Vertical
6	16740.0	55.10	5.53	68.20	13.10	247	171	Vertical

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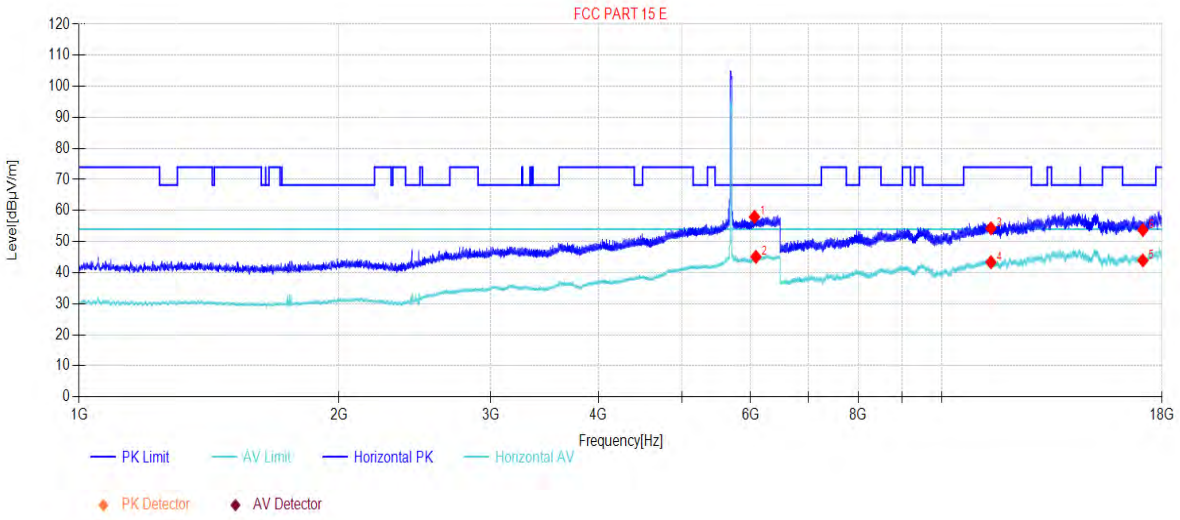
4.9.2.41 802.11N20_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6065.10	57.98	17.61	68.20	10.22	154	142	Horizontal
2	6088.93	45.09	17.72	54.00	8.91	168	266	Horizontal
3	11400.0	54.28	2.54	74.00	19.72	148	145	Horizontal
4	11400.0	43.37	2.54	54.00	10.63	164	231	Horizontal
5	17100.0	43.94	5.72	54.00	10.06	162	290	Horizontal
6	17100.0	53.74	5.72	68.20	14.46	147	290	Horizontal

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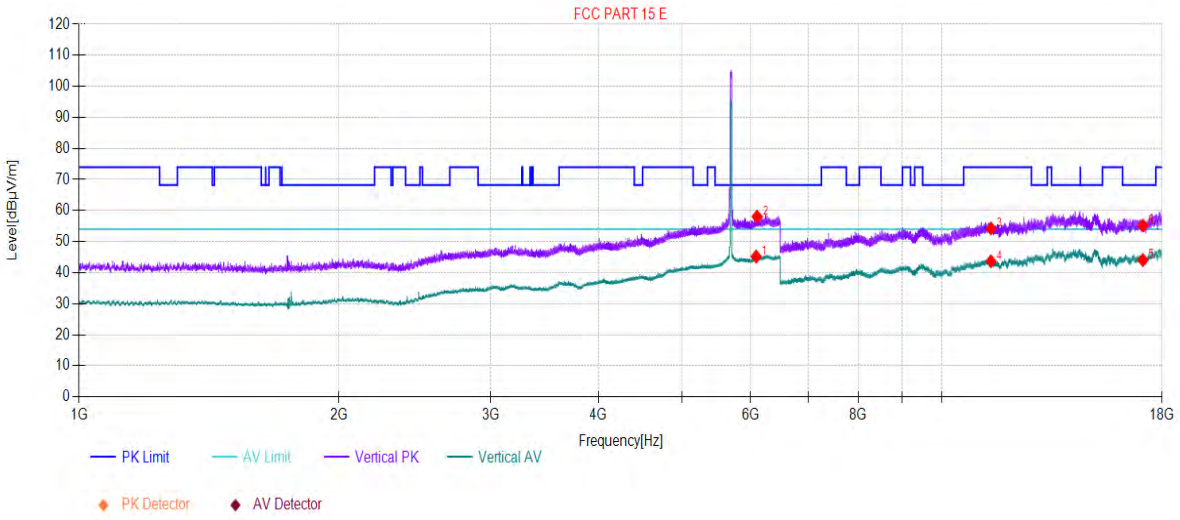
4.9.2.42 802.11N20_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6092.60	45.19	17.74	54.00	8.81	248	181	Vertical
2	6109.10	58.05	17.80	68.20	10.15	261	43	Vertical
3	11400.0	54.22	2.54	74.00	19.78	248	280	Vertical
4	11400.0	43.66	2.54	54.00	10.34	247	154	Vertical
5	17100.0	44.08	5.72	54.00	9.92	278	212	Vertical
6	17100.0	55.19	5.72	68.20	13.01	268	280	Vertical

Final Data List

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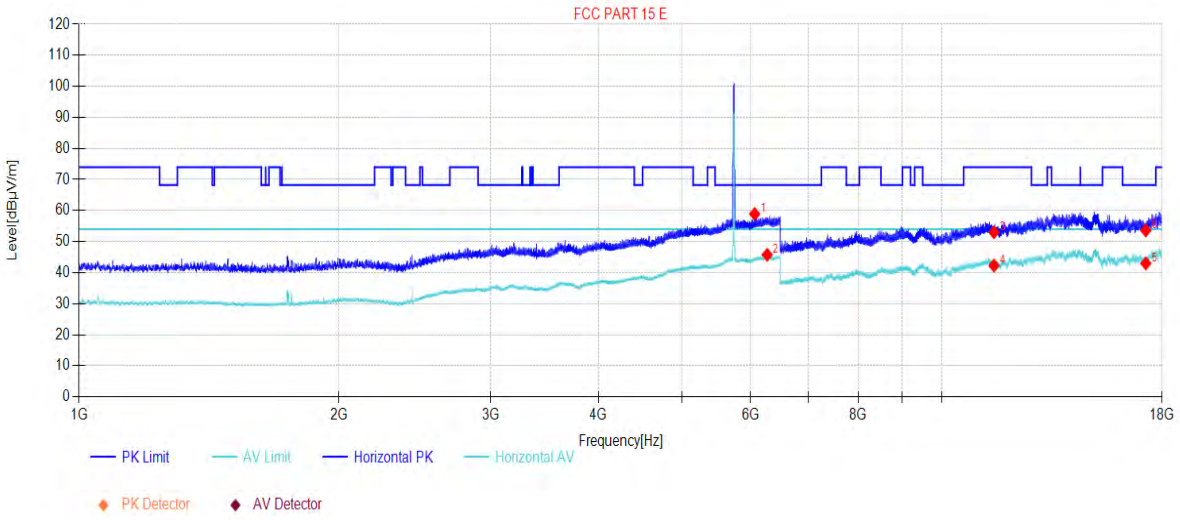
4.9.2.43 802.11N20_Channel 149

Test Graph



Suspected List

Suspected List								
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1	6068.03	58.91	17.62	68.20	9.29	142	147	Horizontal
2	6274.11	45.74	18.36	54.00	8.26	134	278	Horizontal
3	11490.0	53.02	2.10	74.00	20.98	148	348	Horizontal
4	11490.0	42.30	2.10	54.00	11.70	168	357	Horizontal
5	17235.0	43.00	6.10	54.00	11.00	147	241	Horizontal
6	17235.0	53.62	6.10	68.20	14.58	196	96	Horizontal

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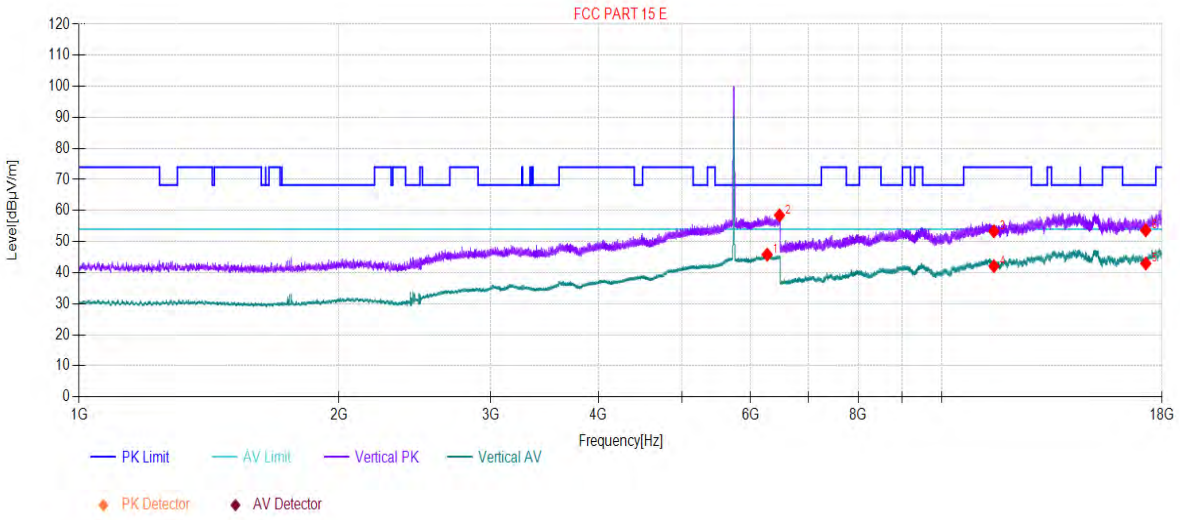
4.9.2.44 802.11N20_Channel 149

Test Graph



Suspected List

Suspected List								
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1	6274.11	45.79	18.36	54.00	8.21	248	195	Vertical
2	6484.59	58.46	18.63	68.20	9.74	246	30	Vertical
3	11490.0	53.31	2.10	74.00	20.69	214	105	Vertical
4	11490.0	42.10	2.10	54.00	11.90	274	280	Vertical
5	17235.0	42.95	6.10	54.00	11.05	268	203	Vertical
6	17235.0	53.62	6.10	68.20	14.58	241	280	Vertical

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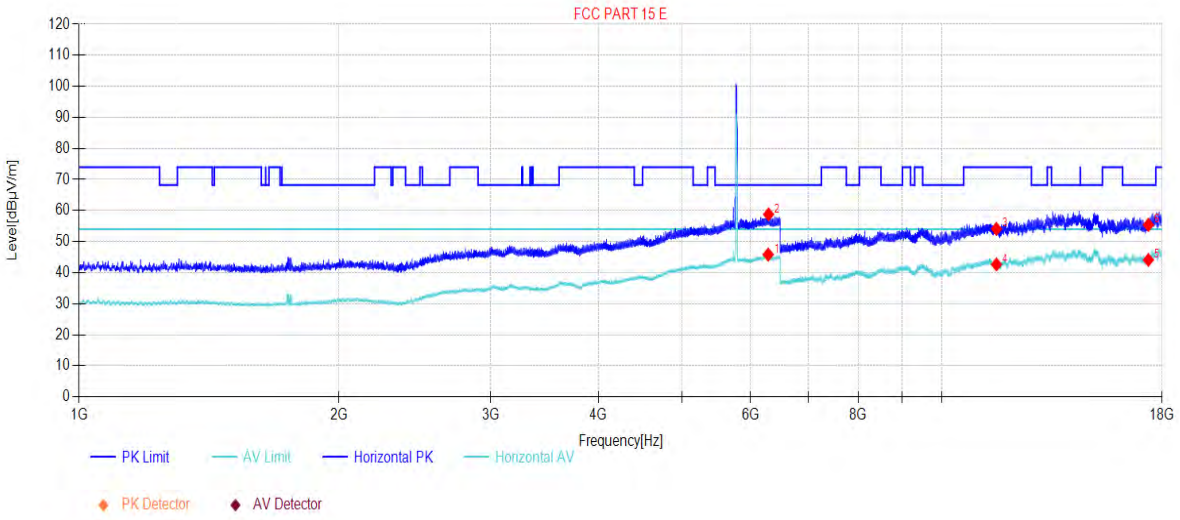
4.9.2.45 802.11N20_Channel 157

Test Graph



Suspected List

Suspected List								
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1	6290.98	45.84	18.44	54.00	8.16	248	77	Horizontal
2	6297.58	58.78	18.47	68.20	9.42	261	36	Horizontal
3	11570.0	54.08	2.92	74.00	19.92	274	270	Horizontal
4	11570.0	42.67	2.92	54.00	11.33	236	135	Horizontal
5	17355.0	44.11	6.75	54.00	9.89	248	310	Horizontal
6	17355.0	55.41	6.75	68.20	12.79	247	222	Horizontal

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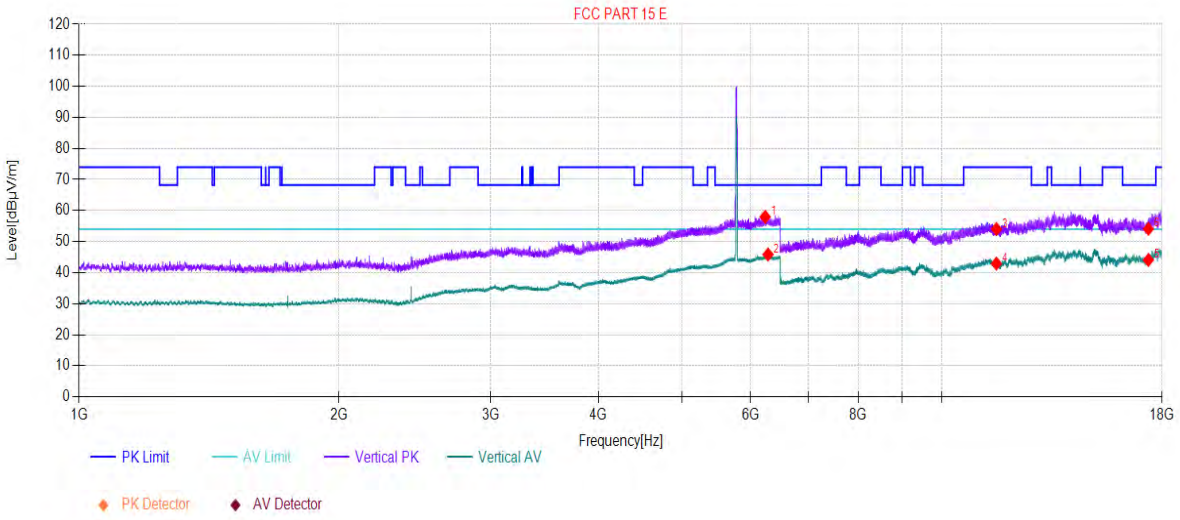
4.9.2.46 802.11N20_Channel 157

Test Graph



Suspected List

Suspected List								
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1	6240.74	57.98	18.20	68.20	10.22	248	216	Vertical
2	6288.41	45.86	18.43	54.00	8.14	261	140	Vertical
3	11570.0	54.05	2.92	74.00	19.95	247	348	Vertical
4	11570.0	42.91	2.92	54.00	11.09	261	91	Vertical
5	17355.0	44.09	6.75	54.00	9.91	277	33	Vertical
6	17355.0	54.10	6.75	68.20	14.10	269	33	Vertical

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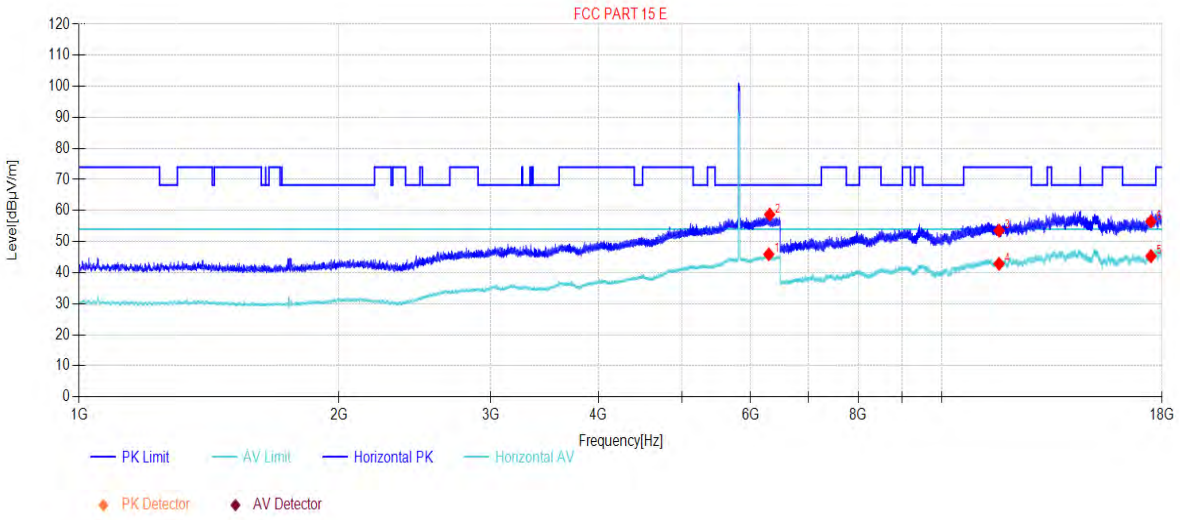
4.9.2.47 802.11N20_Channel 165

Test Graph



Suspected List

Suspected List								
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1	6301.25	45.90	18.48	54.00	8.10	147	208	Horizontal
2	6316.28	58.72	18.43	68.20	9.48	168	92	Horizontal
3	11650.0	53.54	2.58	74.00	20.46	144	85	Horizontal
4	11650.0	42.85	2.58	54.00	11.15	168	154	Horizontal
5	17475.0	45.30	7.42	54.00	8.70	199	27	Horizontal
6	17475.0	56.46	7.42	68.20	11.74	204	105	Horizontal

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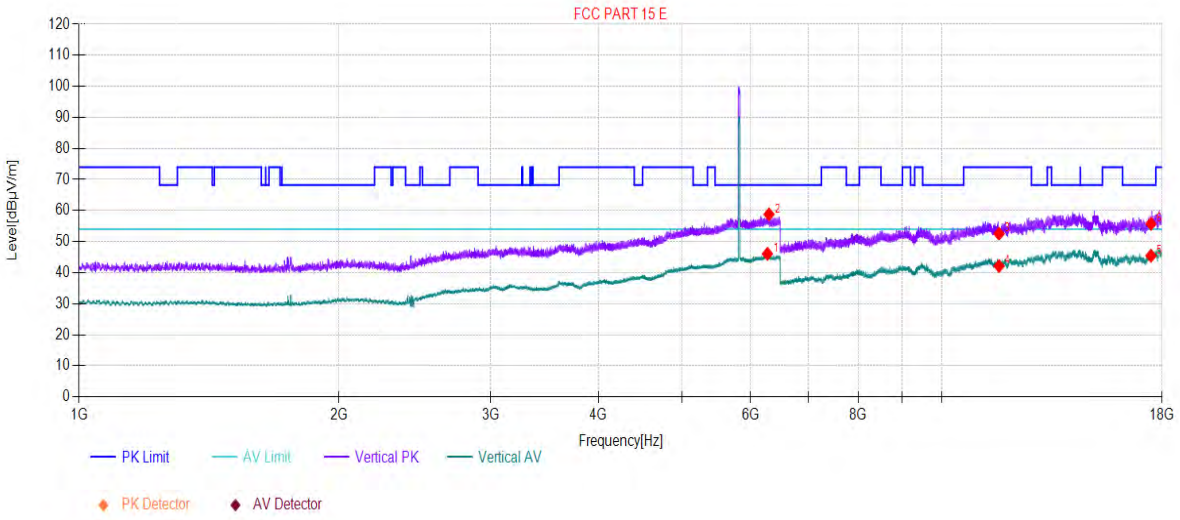
4.9.2.48 802.11N20_Channel 165

Test Graph



Suspected List

Suspected List								
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1	6278.15	46.07	18.38	54.00	7.93	241	195	Vertical
2	6304.18	58.78	18.47	68.20	9.42	271	23	Vertical
3	11650.0	52.53	2.58	74.00	21.47	264	347	Vertical
4	11650.0	42.14	2.58	54.00	11.86	247	338	Vertical
5	17475.0	45.46	7.42	54.00	8.54	264	338	Vertical
6	17475.0	55.72	7.42	68.20	12.48	269	152	Vertical

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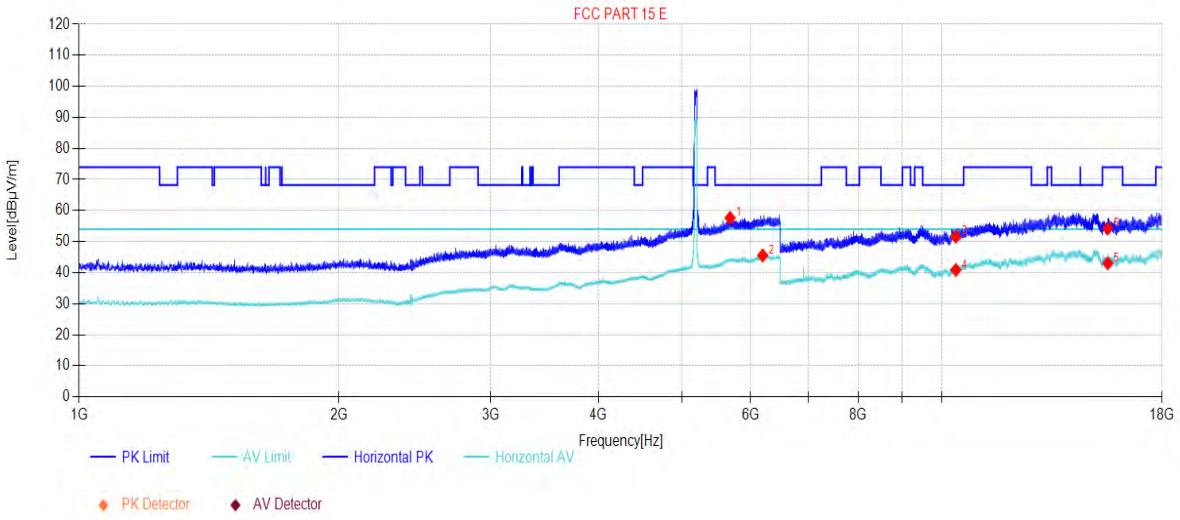
4.9.2.49 802.11N40_Channel 38

Test Graph



Suspected List

Suspected List								
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1	5683.01	57.63	16.80	68.20	10.57	147	210	Horizontal
2	6198.94	45.55	18.00	54.00	8.45	162	238	Horizontal
3	10380.0	51.58	2.40	68.20	16.62	174	290	Horizontal
4	10380.0	40.86	2.40	54.00	13.14	135	222	Horizontal
5	15570.0	43.01	6.00	54.00	10.99	178	184	Horizontal
6	15570.0	54.22	6.00	74.00	19.78	174	117	Horizontal

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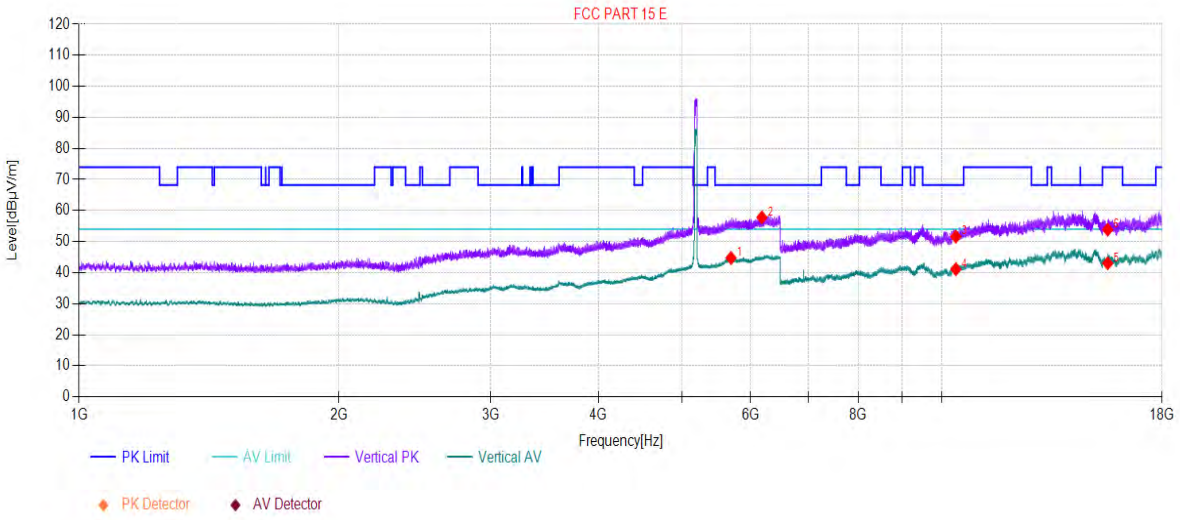
4.9.2.50 802.11N40_Channel 38

Test Graph



Suspected List

Suspected List								
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1	5696.57	44.73	16.89	54.00	9.27	226	224	Vertical
2	6185.74	57.79	17.97	68.20	10.41	235	280	Vertical
3	10380.0	51.62	2.40	68.20	16.58	245	242	Vertical
4	10380.0	41.10	2.40	54.00	12.90	285	290	Vertical
5	15570.0	43.03	6.00	54.00	10.97	294	77	Vertical
6	15570.0	53.84	6.00	74.00	20.16	301	9	Vertical

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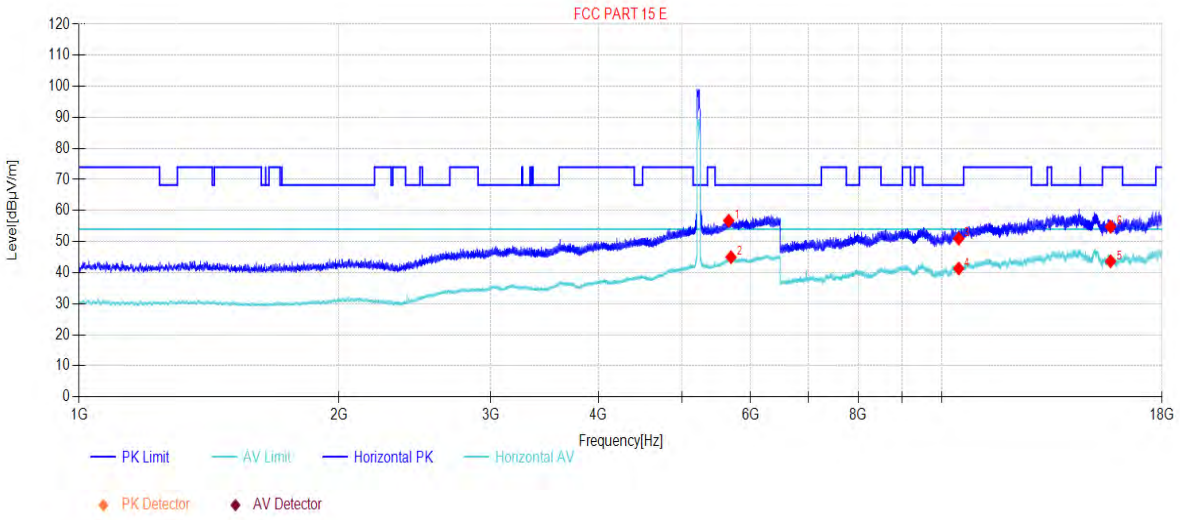
4.9.2.51 802.11N40_Channel 46

Test Graph



Suspected List

Suspected List								
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1	5661.37	56.75	16.66	68.20	11.45	158	327	Horizontal
2	5695.84	44.98	16.89	54.00	9.02	168	327	Horizontal
3	10460.0	50.96	2.47	68.20	17.24	147	165	Horizontal
4	10460.0	41.35	2.47	54.00	12.65	162	117	Horizontal
5	15690.0	43.66	6.13	54.00	10.34	147	41	Horizontal
6	15690.0	54.79	6.13	74.00	19.21	136	203	Horizontal

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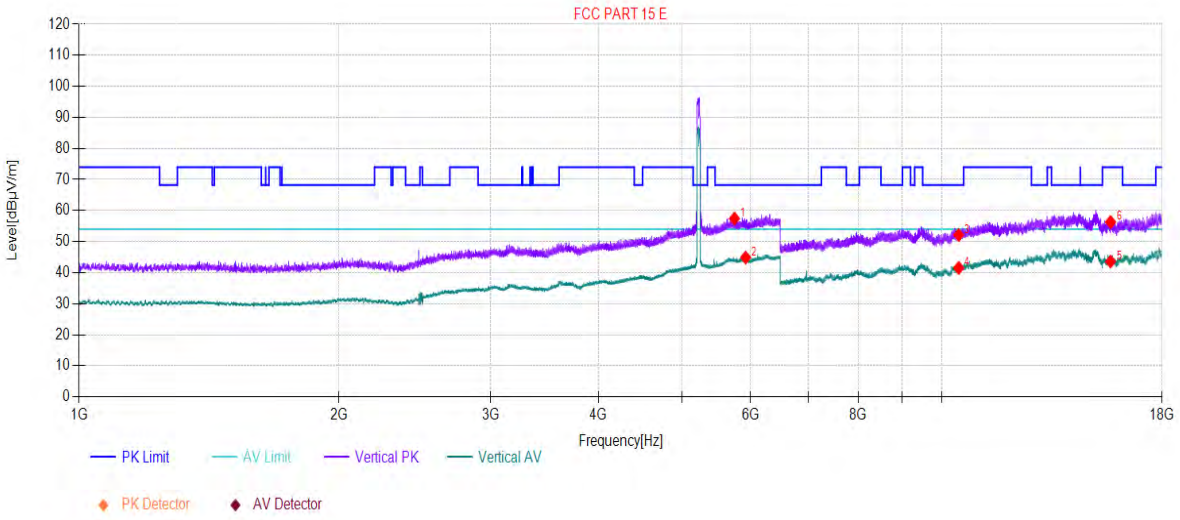
4.9.2.52 802.11N40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5749.01	57.42	16.81	68.20	10.78	274	161	Vertical
2	5924.29	44.86	17.25	54.00	9.14	264	314	Vertical
3	10460.0	52.13	2.47	68.20	16.07	248	124	Vertical
4	10460.0	41.54	2.47	54.00	12.46	261	183	Vertical
5	15690.0	43.58	6.13	54.00	10.42	241	95	Vertical
6	15690.0	56.30	6.13	74.00	17.70	274	17	Vertical

Final Data List

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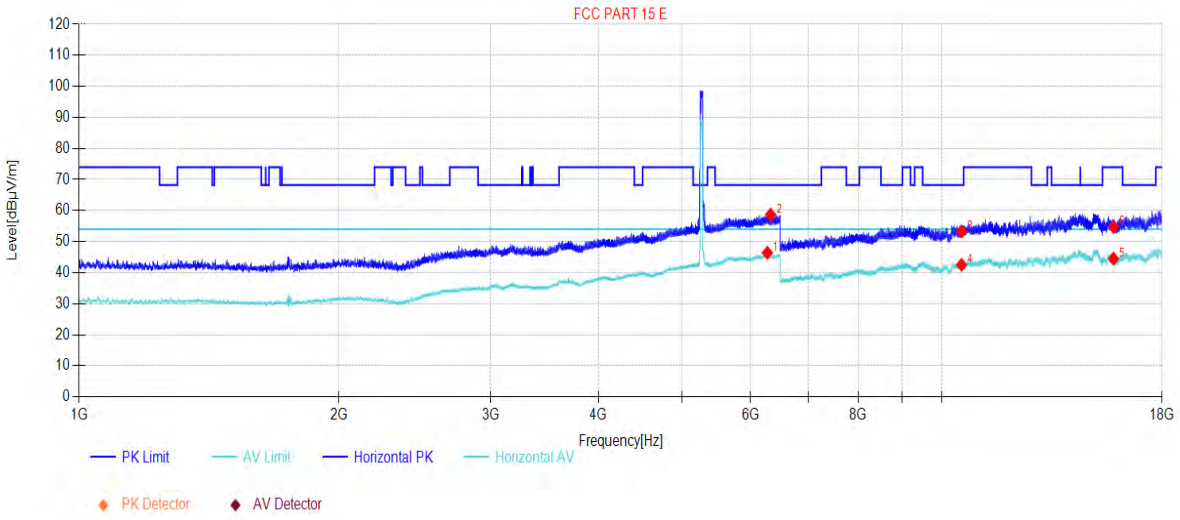
4.9.2.53 802.11N40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6277.05	46.39	18.37	54.00	7.61	115	312	Horizontal
2	6331.32	58.67	18.38	68.20	9.53	215	244	Horizontal
3	10540.0	53.27	2.39	68.20	14.93	150	56	Horizontal
4	10540.0	42.54	2.39	54.00	11.46	149	348	Horizontal
5	15810.0	44.49	5.12	54.00	9.51	161	76	Horizontal
6	15810.0	54.75	5.12	74.00	19.25	174	271	Horizontal

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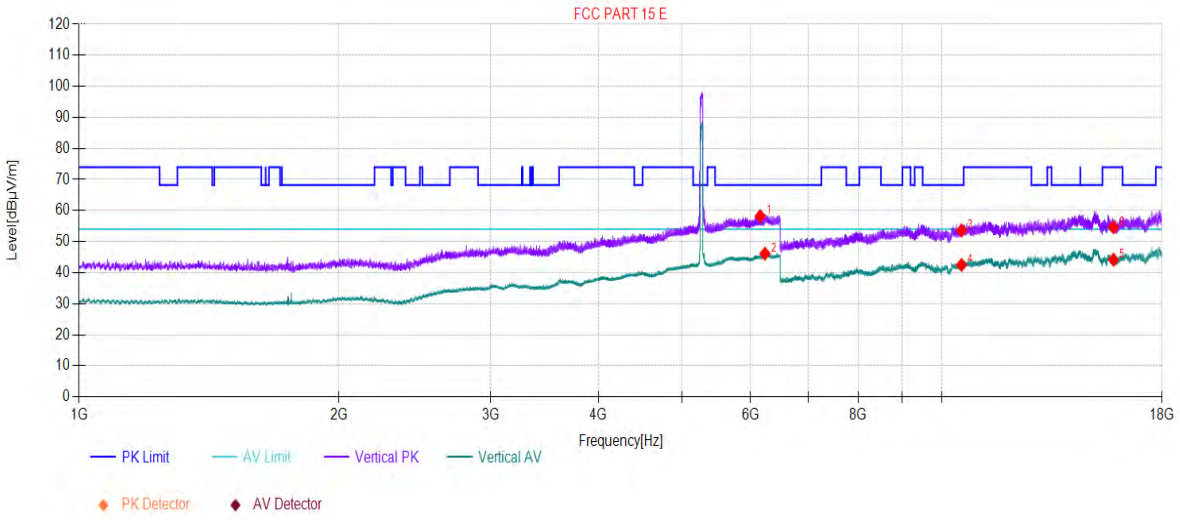
4.9.2.54 802.11N40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6159.34	58.21	17.91	68.20	9.99	248	320	Vertical
2	6237.44	46.13	18.18	54.00	7.87	268	154	Vertical
3	10540.0	53.59	2.39	68.20	14.61	274	194	Vertical
4	10540.0	42.50	2.39	54.00	11.50	281	310	Vertical
5	15810.0	44.18	5.12	54.00	9.82	262	319	Vertical
6	15810.0	54.62	5.12	74.00	19.38	235	146	Vertical

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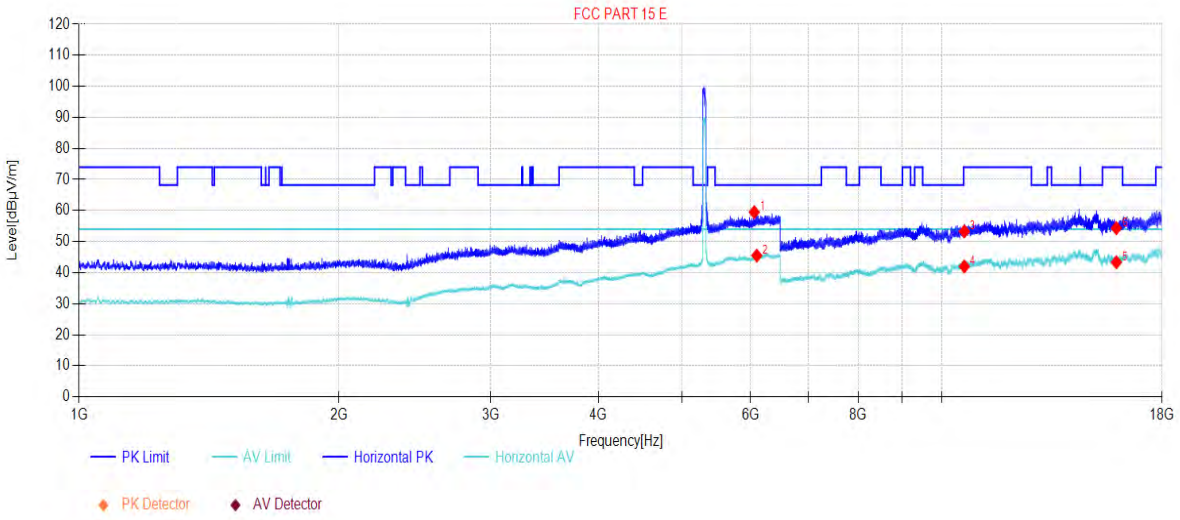
4.9.2.55 802.11N40_Channel 62

Test Graph



Suspected List

Suspected List								
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1	6061.80	59.49	17.59	68.20	8.71	148	30	Horizontal
2	6103.24	45.52	17.78	54.00	8.48	162	91	Horizontal
3	10620.0	53.28	2.23	74.00	20.72	178	9	Horizontal
4	10620.0	41.98	2.23	54.00	12.02	168	1	Horizontal
5	15930.0	43.35	5.15	54.00	10.65	147	203	Horizontal
6	15930.0	54.35	5.15	74.00	19.65	178	135	Horizontal

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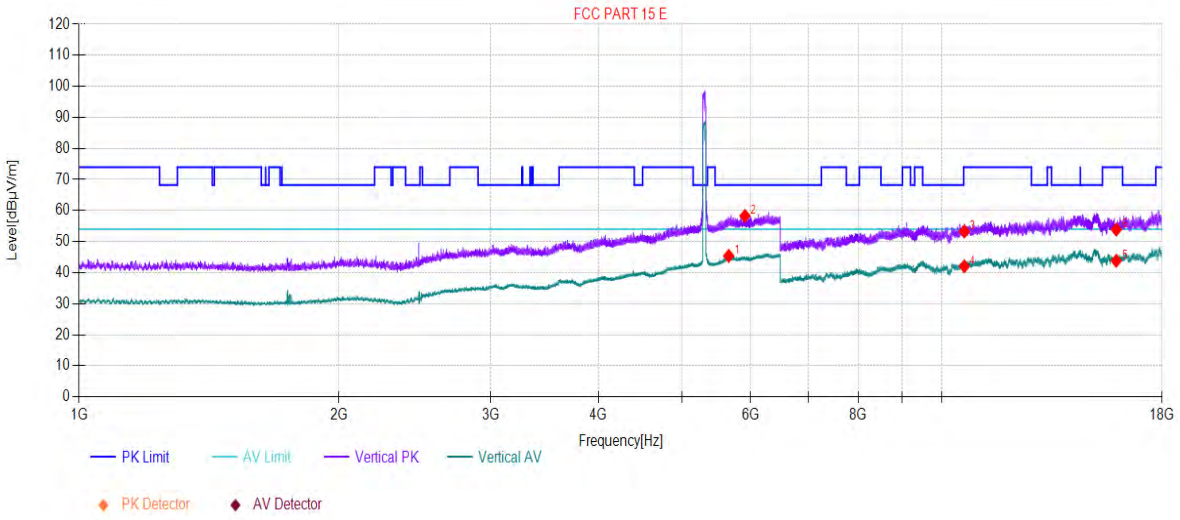
4.9.2.56 802.11N40_Channel 62

Test Graph



Suspected List

Suspected List								
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1	5662.47	45.40	16.67	54.00	8.60	274	320	Vertical
2	5912.92	58.26	17.25	68.20	9.94	268	134	Vertical
3	10620.0	53.29	2.23	74.00	20.71	242	47	Vertical
4	10620.0	42.07	2.23	54.00	11.93	268	222	Vertical
5	15930.0	43.83	5.15	54.00	10.17	274	328	Vertical
6	15930.0	53.87	5.15	74.00	20.13	234	134	Vertical

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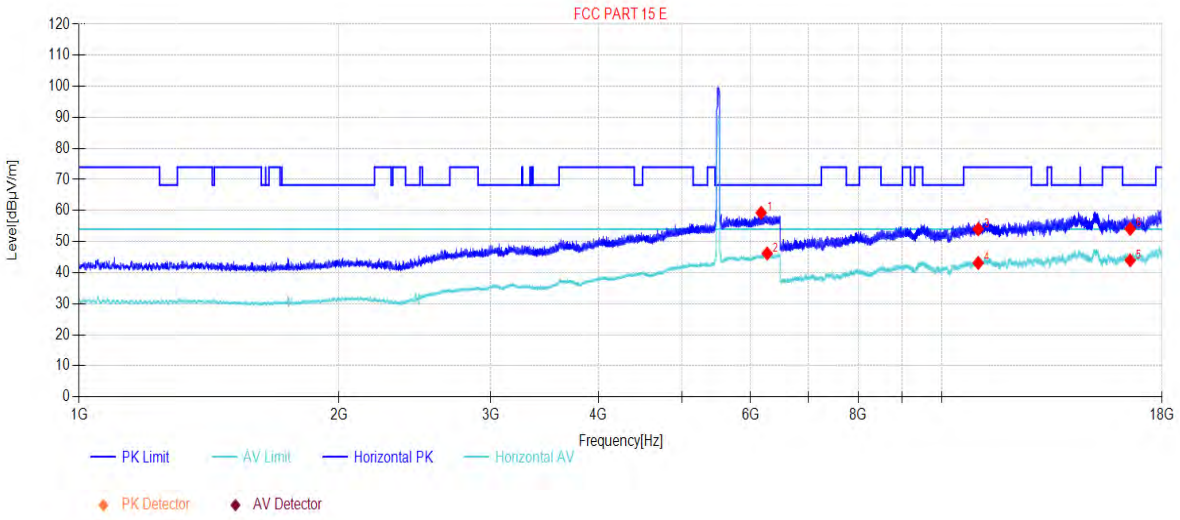
4.9.2.57 802.11N40_Channel 102

Test Graph



Suspected List

Suspected List								
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1	6174.74	59.30	17.94	68.20	8.90	168	217	Horizontal
2	6274.85	46.17	18.36	54.00	7.83	174	176	Horizontal
3	11020.0	53.97	2.69	74.00	20.03	168	348	Horizontal
4	11020.0	43.12	2.69	54.00	10.88	174	300	Horizontal
5	16530.0	43.98	5.27	54.00	10.02	182	29	Horizontal
6	16530.0	54.09	5.27	68.20	14.11	177	184	Horizontal

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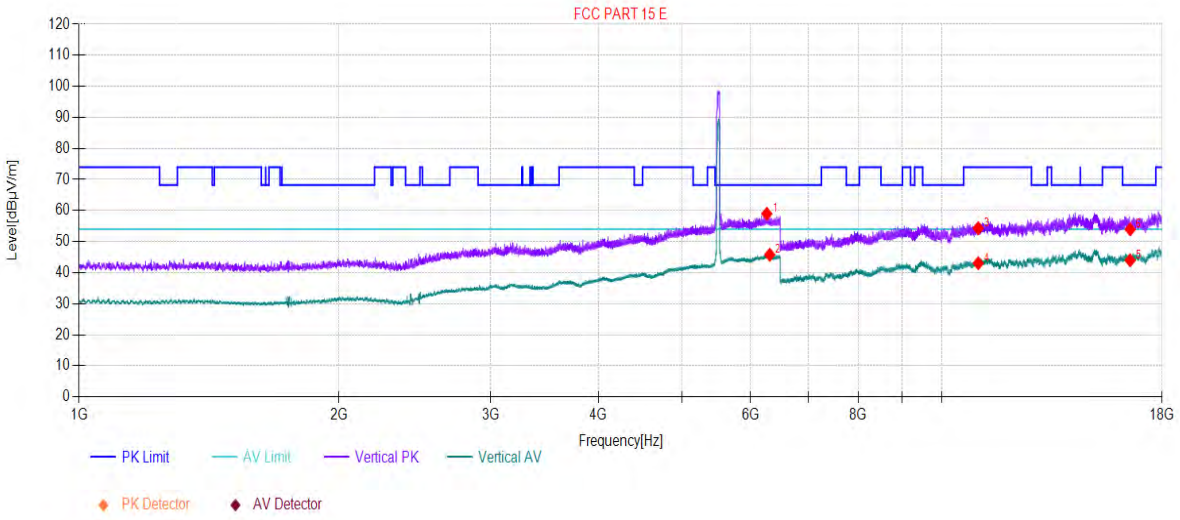
4.9.2.58 802.11N40_Channel 102

Test Graph



Suspected List

Suspected List								
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1	6268.61	58.96	18.33	68.20	9.24	254	348	Vertical
2	6317.02	45.77	18.43	54.00	8.23	261	120	Vertical
3	11020.0	54.32	2.69	74.00	19.68	268	185	Vertical
4	11020.0	43.05	2.69	54.00	10.95	274	328	Vertical
5	16530.0	43.97	5.27	54.00	10.03	286	299	Vertical
6	16530.0	53.94	5.27	68.20	14.26	278	280	Vertical

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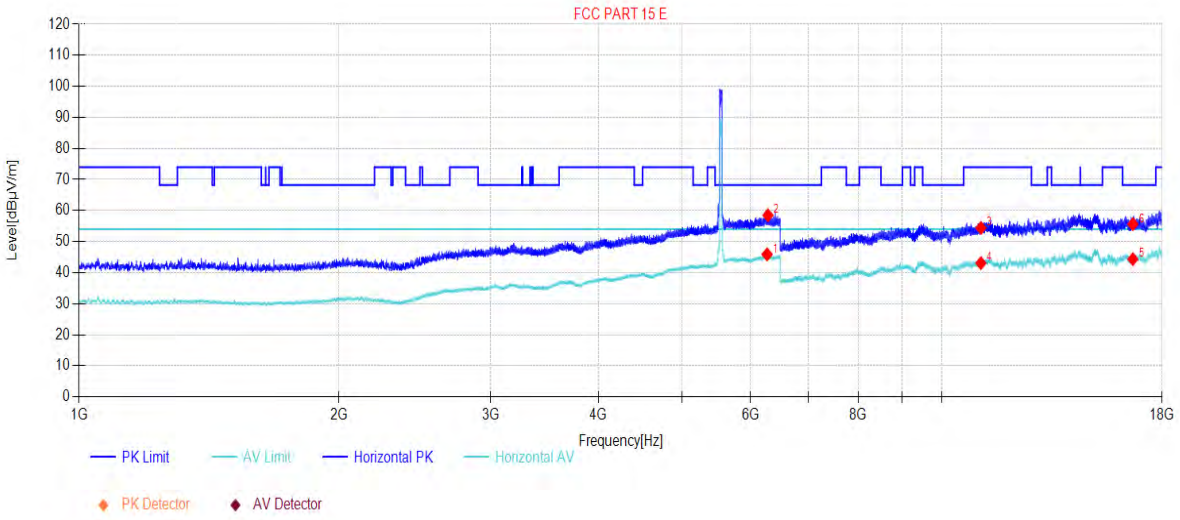
4.9.2.59 802.11N40_Channel 110

Test Graph



Suspected List

Suspected List								
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1	6273.01	45.88	18.35	54.00	8.12	163	306	Horizontal
2	6286.95	58.49	18.42	68.20	9.71	134	299	Horizontal
3	11100.0	54.41	2.49	74.00	19.59	137	280	Horizontal
4	11100.0	43.09	2.49	54.00	10.91	151	348	Horizontal
5	16650.0	44.37	5.74	54.00	9.63	137	357	Horizontal
6	16650.0	55.63	5.74	68.20	12.57	168	38	Horizontal

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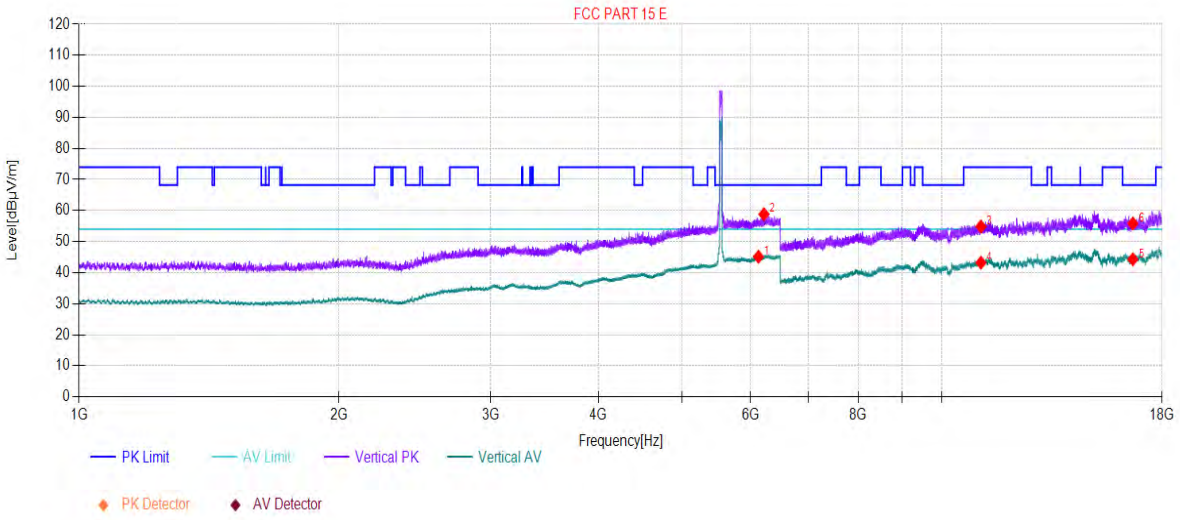
4.9.2.60 802.11N40_Channel 110

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6129.27	45.13	17.84	54.00	8.87	241	9	Vertical
2	6220.94	58.82	18.10	68.20	9.38	264	265	Vertical
3	11100.0	54.85	2.49	74.00	19.15	278	259	Vertical
4	11100.0	43.23	2.49	54.00	10.77	248	357	Vertical
5	16650.0	44.31	5.74	54.00	9.69	291	269	Vertical
6	16650.0	55.83	5.74	68.20	12.37	278	142	Vertical

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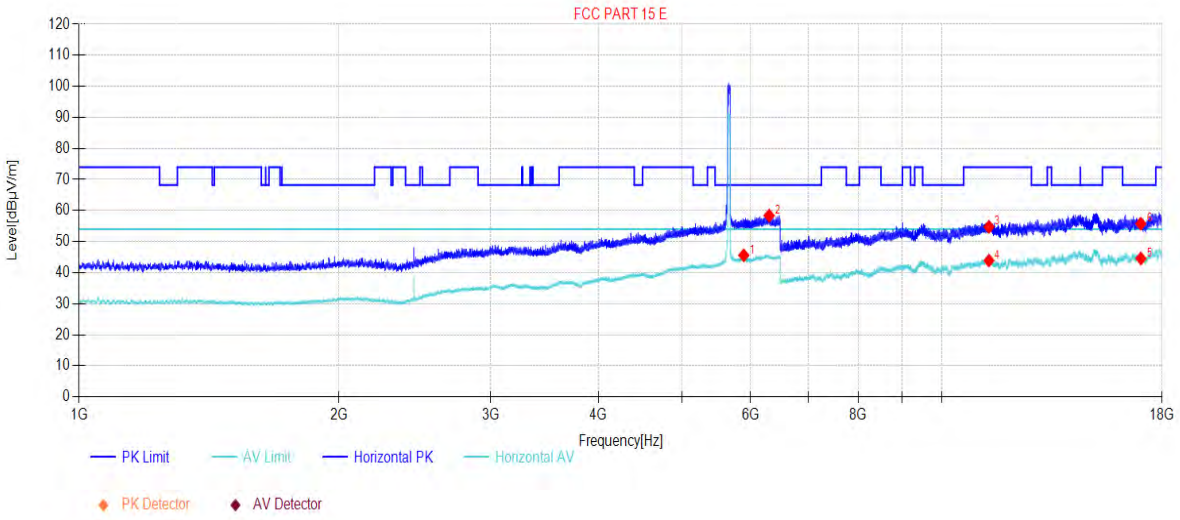
4.9.2.61 802.11N40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5893.85	45.58	17.21	54.00	8.42	154	258	Horizontal
2	6307.48	58.38	18.46	68.20	9.82	150	127	Horizontal
3	11340.0	54.75	2.55	74.00	19.25	166	232	Horizontal
4	11340.0	43.89	2.55	54.00	10.11	161	182	Horizontal
5	17010.0	44.57	6.16	54.00	9.43	113	152	Horizontal
6	17010.0	55.76	6.16	68.20	12.44	150	134	Horizontal

Final Data List

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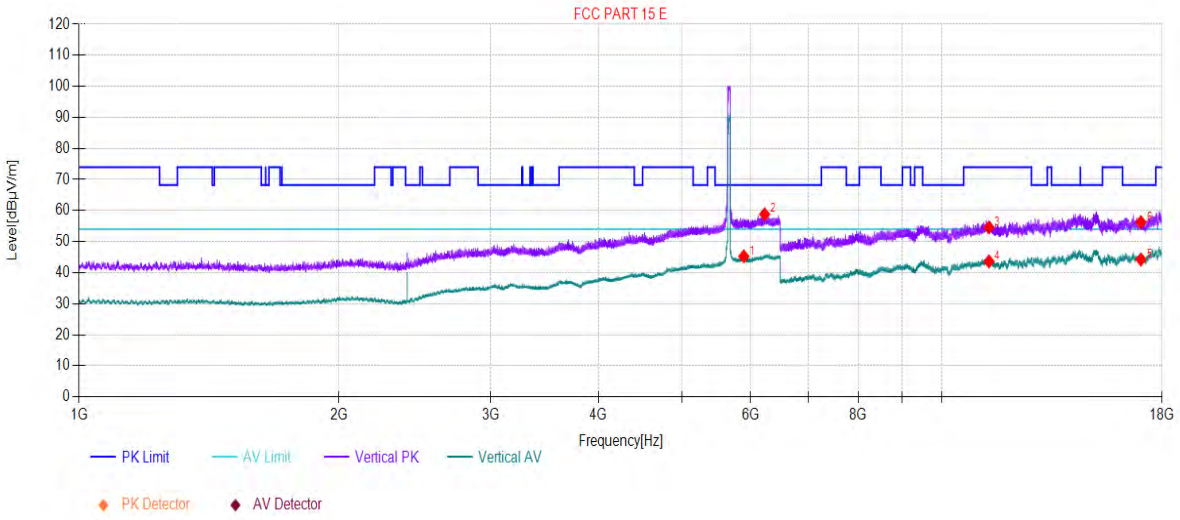
4.9.2.62 802.11N40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5894.95	45.24	17.21	54.00	8.76	241	293	Vertical
2	6231.94	58.80	18.15	68.20	9.40	236	230	Vertical
3	11340.0	54.57	2.55	74.00	19.43	248	241	Vertical
4	11340.0	43.63	2.55	54.00	10.37	264	250	Vertical
5	17010.0	44.27	6.16	54.00	9.73	268	57	Vertical
6	17010.0	56.27	6.16	68.20	11.93	241	134	Vertical

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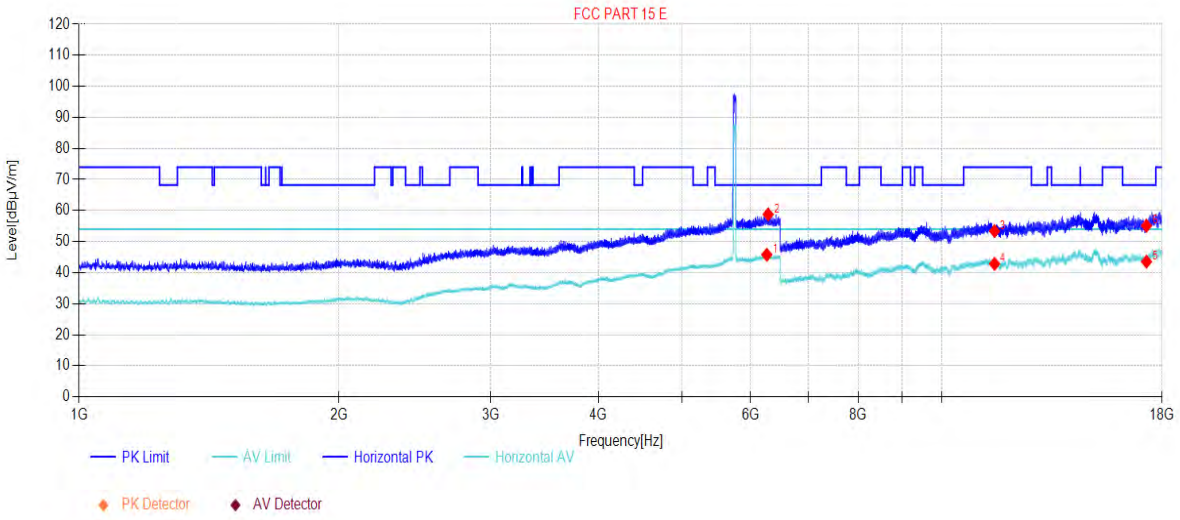
4.9.2.63 802.11N40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6267.88	45.77	18.33	54.00	8.23	161	182	Horizontal
2	6290.98	58.76	18.44	68.20	9.44	168	64	Horizontal
3	11510.0	53.39	2.17	74.00	20.61	174	319	Horizontal
4	11510.0	42.83	2.17	54.00	11.17	168	310	Horizontal
5	17265.0	43.56	6.33	54.00	10.44	144	164	Horizontal
6	17265.0	55.12	6.33	68.20	13.08	174	76	Horizontal

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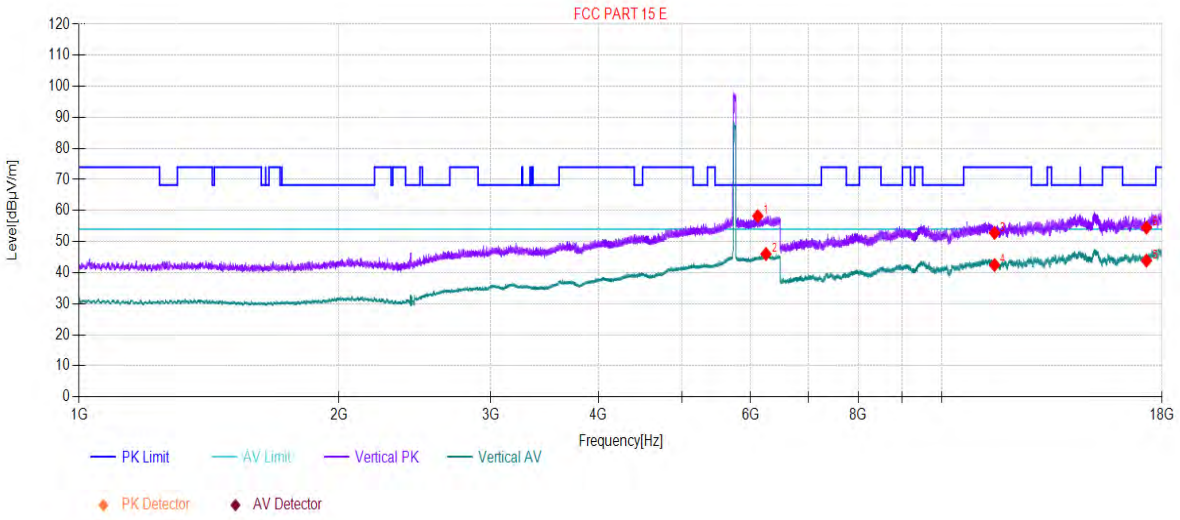
4.9.2.64 802.11N40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6118.64	58.23	17.82	68.20	9.97	248	313	Vertical
2	6253.95	45.99	18.26	54.00	8.01	268	203	Vertical
3	11510.0	52.80	2.17	74.00	21.20	274	7	Vertical
4	11510.0	42.46	2.17	54.00	11.54	291	181	Vertical
5	17265.0	43.87	6.33	54.00	10.13	239	93	Vertical
6	17265.0	54.52	6.33	68.20	13.68	234	123	Vertical

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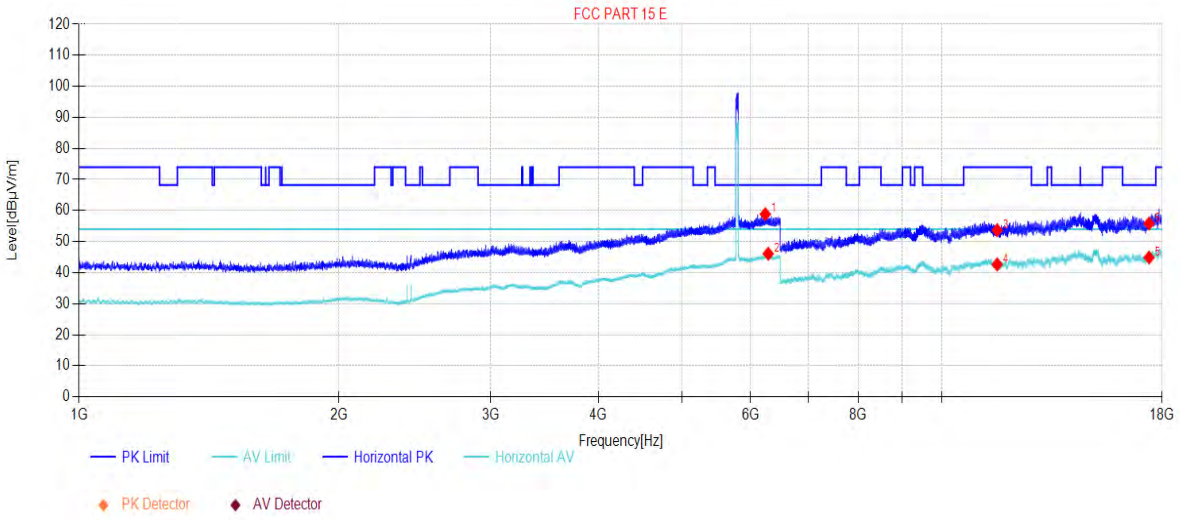
4.9.2.65 802.11N40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6243.68	58.82	18.21	68.20	9.38	144	278	Horizontal
2	6291.35	46.10	18.44	54.00	7.90	161	9	Horizontal
3	11590.0	53.68	3.16	74.00	20.32	145	96	Horizontal
4	11590.0	42.65	3.16	54.00	11.35	165	300	Horizontal
5	17385.0	44.87	6.82	54.00	9.13	128	125	Horizontal
6	17385.0	55.85	6.82	68.20	12.35	177	58	Horizontal

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