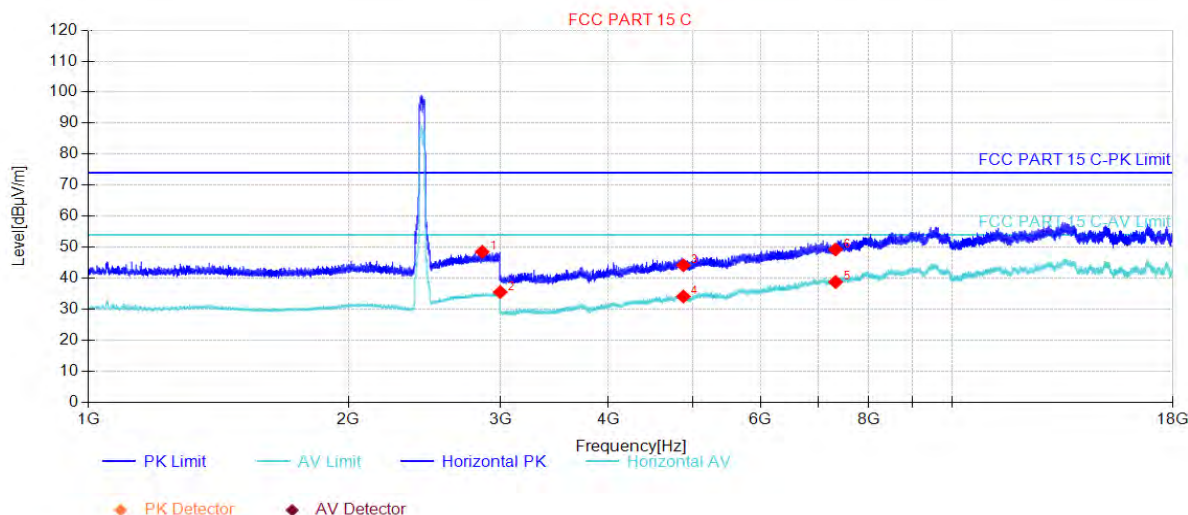


4.9.2.41 802.11N40_Channel 7

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2856.585	48.49	6.85	74.00	25.51	157	Horizontal
2	2997.399	35.49	7.40	54.00	18.51	168	Horizontal
3	4884.000	44.14	-10.37	74.00	29.86	164	Horizontal
4	4884.000	34.07	-10.37	54.00	19.93	132	Horizontal
5	7326.000	38.75	-2.47	54.00	15.25	154	Horizontal
6	7326.000	49.25	-2.47	74.00	24.75	135	Horizontal

Final Data List



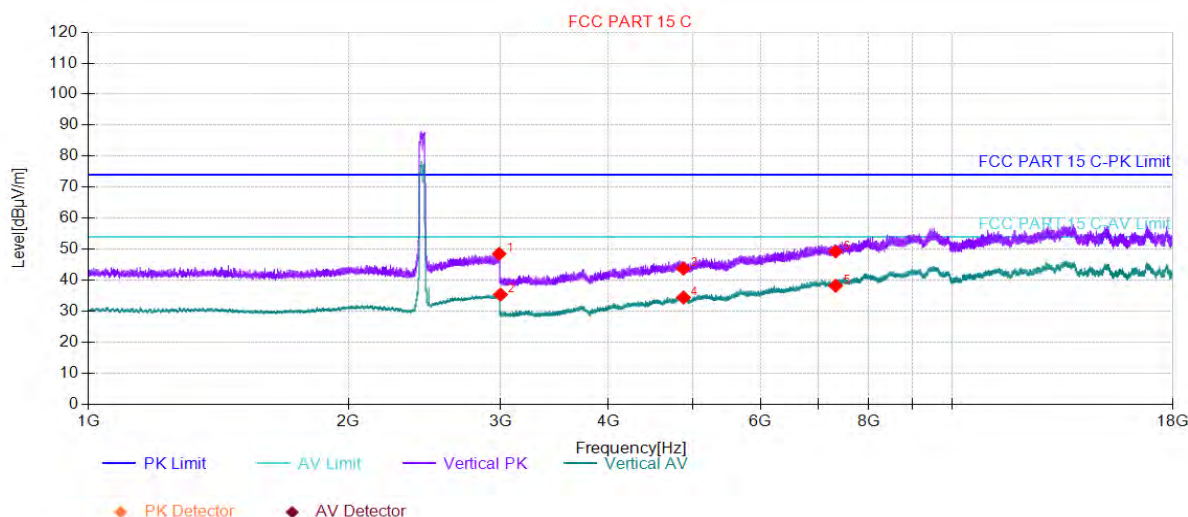
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4.9.2.42 802.11N40_Channel 7

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2988.998	48.49	7.36	74.00	25.51	278	Vertical
2	2998.599	35.34	7.40	54.00	18.66	245	Vertical
3	4884.000	43.74	-10.37	74.00	30.26	241	Vertical
4	4884.000	34.41	-10.37	54.00	19.59	258	Vertical
5	7326.000	38.20	-2.47	54.00	15.80	274	Vertical
6	7326.000	49.25	-2.47	74.00	24.75	274	Vertical

Final Data List



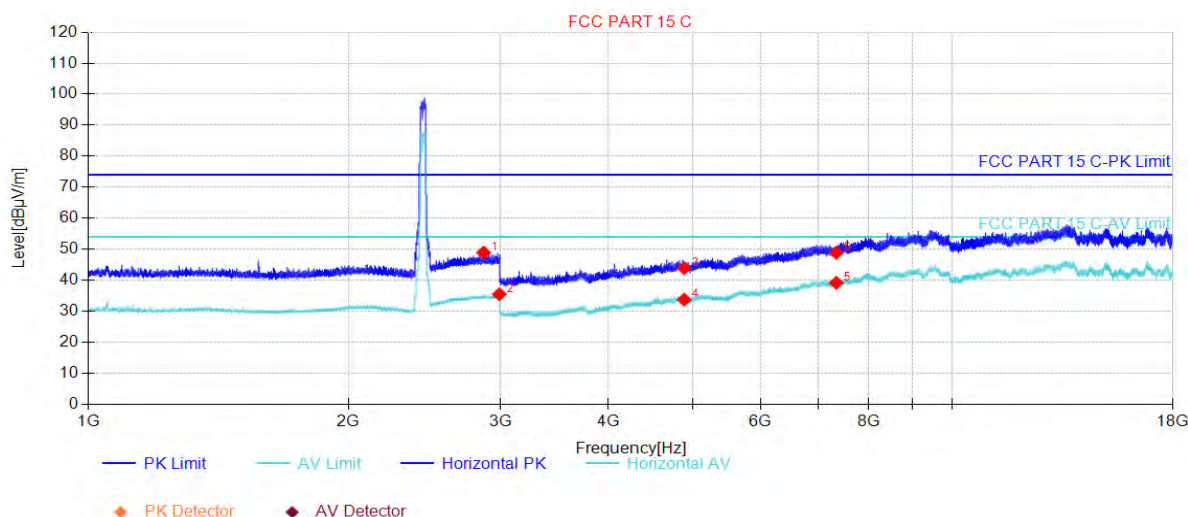
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4.9.2.43 802.11N40_Channel 8

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2867.786	48.90	6.88	74.00	25.10	150	Horizontal
2	2990.599	35.46	7.37	54.00	18.54	150	Horizontal
3	4894.000	43.86	-10.34	74.00	30.14	178	Horizontal
4	4894.000	33.71	-10.34	54.00	20.29	135	Horizontal
5	7341.000	39.11	-2.37	54.00	14.89	178	Horizontal
6	7341.000	48.84	-2.37	74.00	25.16	132	Horizontal

Final Data List



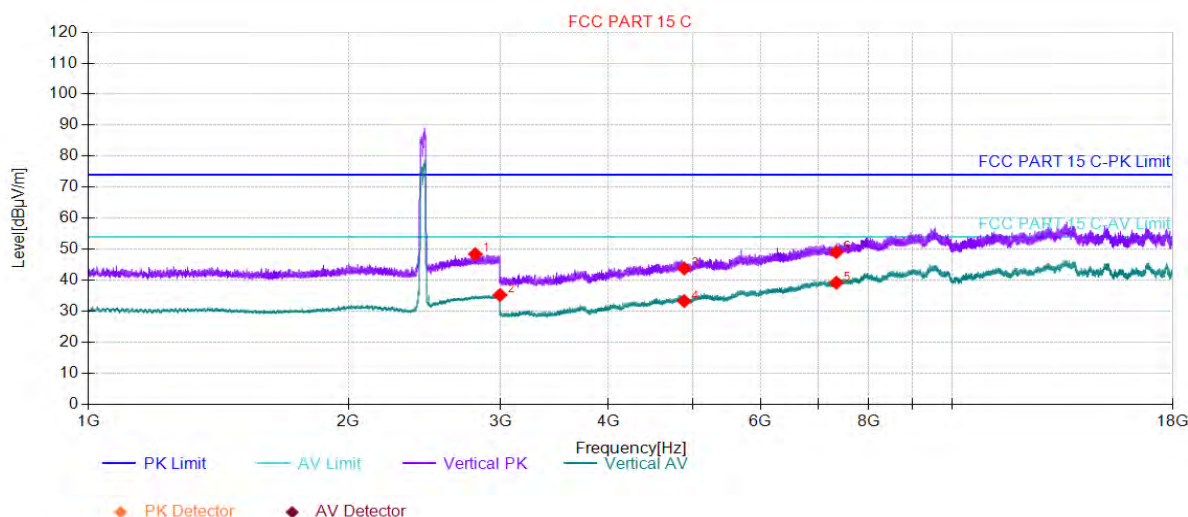
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4.9.2.44 802.11N40_Channel 8

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2804.980	48.39	6.74	74.00	25.61	245	Vertical
2	2995.399	35.24	7.39	54.00	18.76	241	Vertical
3	4894.000	43.79	-10.34	74.00	30.21	256	Vertical
4	4894.000	33.26	-10.34	54.00	20.74	245	Vertical
5	7341.000	39.15	-2.37	54.00	14.85	264	Vertical
6	7341.000	49.05	-2.37	74.00	24.95	288	Vertical

Final Data List

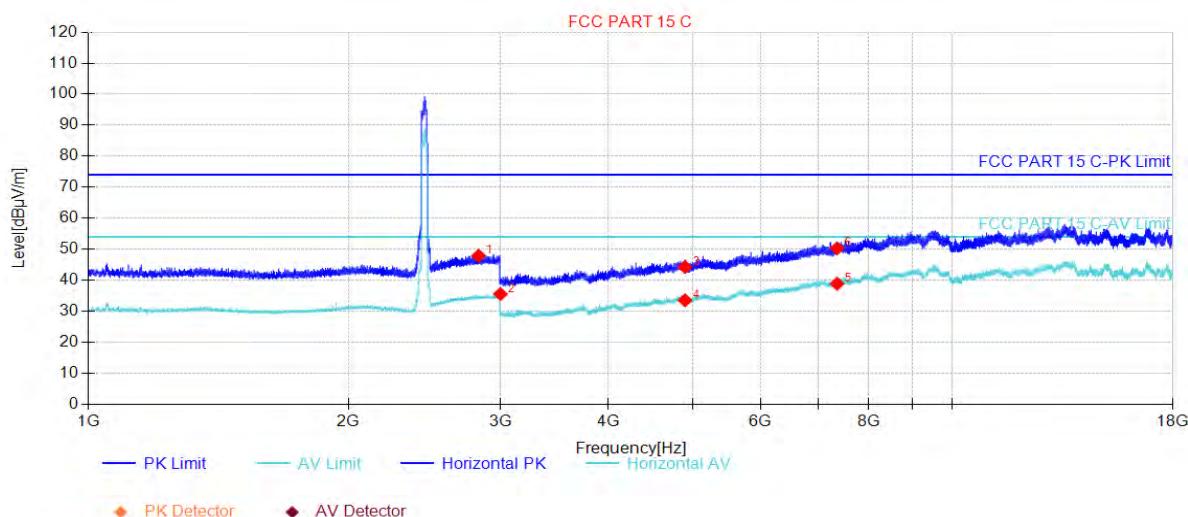


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4.9.2.45 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2829.783	47.87	6.80	74.00	26.13	154	Horizontal
2	2998.799	35.52	7.40	54.00	18.48	162	Horizontal
3	4904.000	44.25	-10.30	74.00	29.75	135	Horizontal
4	4904.000	33.50	-10.30	54.00	20.50	178	Horizontal
5	7356.000	38.83	-2.27	54.00	15.17	145	Horizontal
6	7356.000	50.28	-2.27	74.00	23.72	165	Horizontal

Final Data List



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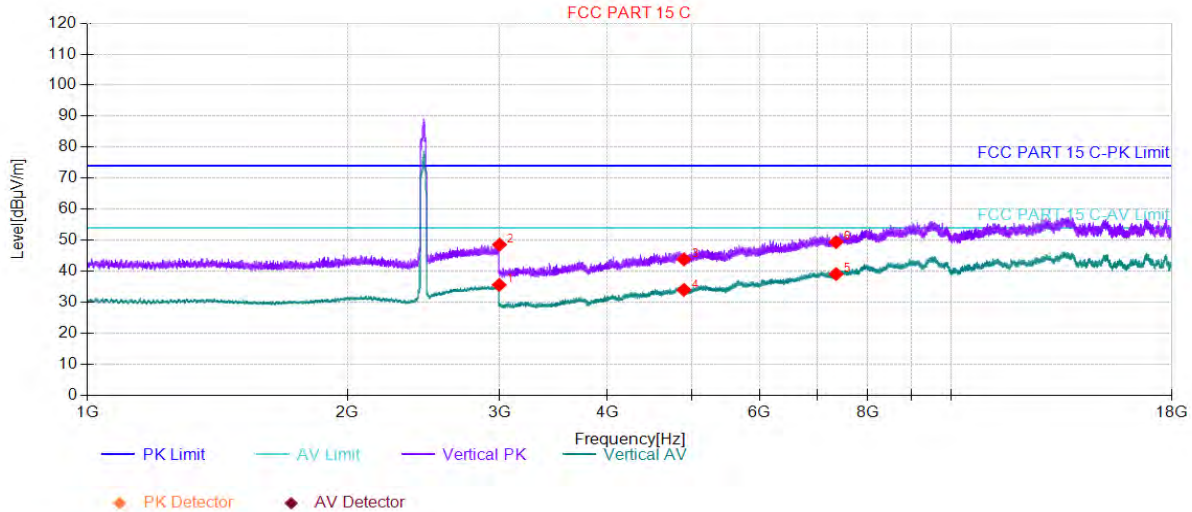
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4.9.2.46 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2997.199	35.56	7.40	54.00	18.44	258	Vertical
2	2999.600	48.55	7.41	74.00	25.45	264	Vertical
3	4904.000	43.81	-10.30	74.00	30.19	278	Vertical
4	4904.000	33.94	-10.30	54.00	20.06	284	Vertical
5	7356.000	39.06	-2.27	54.00	14.94	261	Vertical
6	7356.000	49.36	-2.27	74.00	24.64	274	Vertical

Final Data List

Remark:

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



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

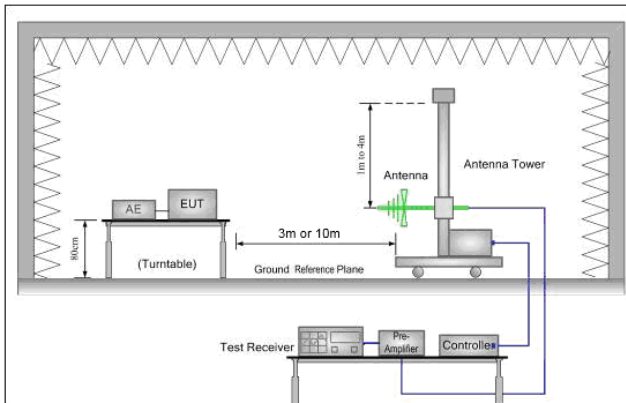


Figure 1. 30MHz to 1GHz

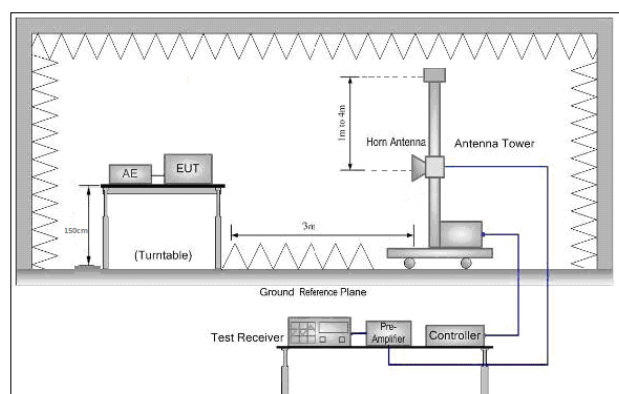


Figure 2. Above 1 GHz

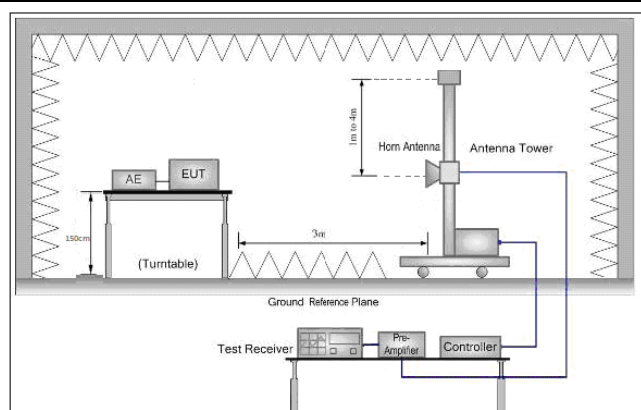


Figure 3. Above 1 GHz



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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • 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 $\geq$ 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.



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Report No.: HR/2021/1001404-01

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Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XHR/2021/1001401



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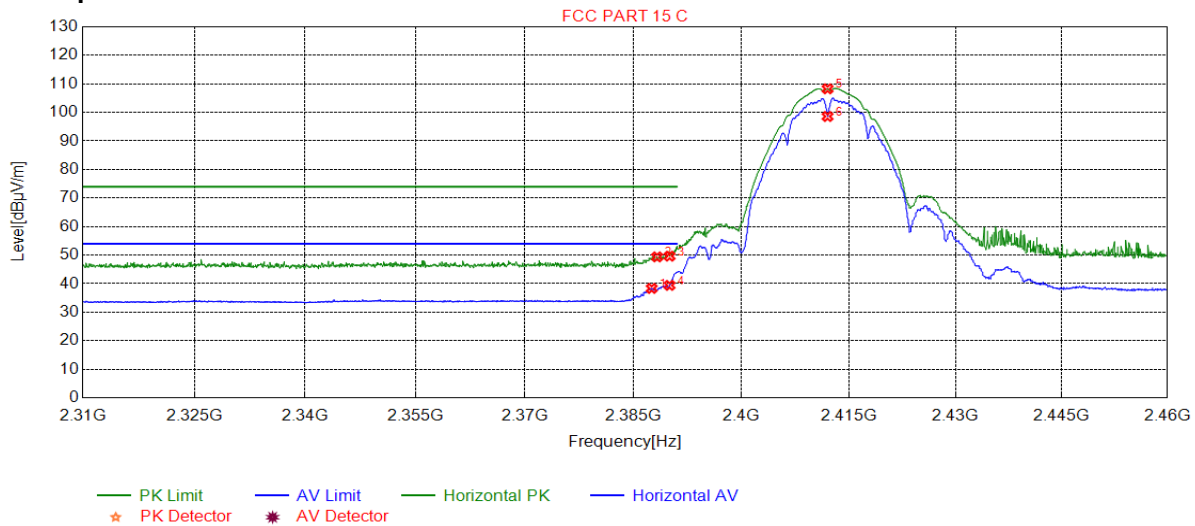
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4.10.1 Test Plots

4.10.1.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.51	38.34	7.91	54.00	15.66	193	298	Horizontal
2	2388.26	49.39	7.93	74.00	24.61	133	211	Horizontal
3	2390.00	49.65	7.98	74.00	24.35	122	313	Horizontal
4	2390.00	39.42	7.98	54.00	14.58	120	298	Horizontal
5	2412.00	108.27	8.16	0.00	-108.27	125	294	Horizontal
6	2412.00	98.58	8.16	0.00	-98.58	231	294	Horizontal

Final Data List

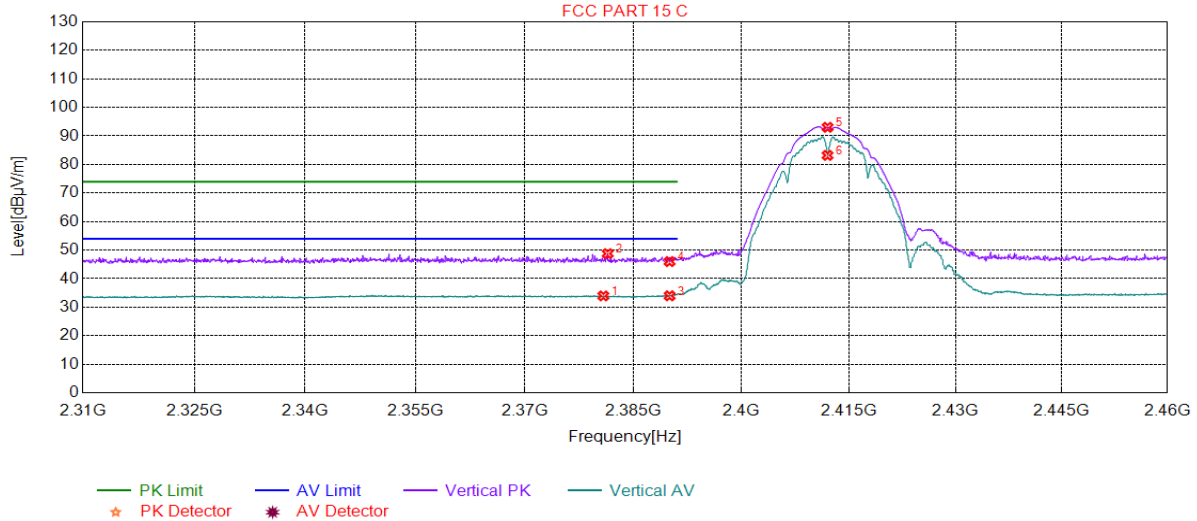


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4.10.1.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.83	33.97	7.97	54.00	20.03	281	359	Vertical
2	2381.43	48.79	7.95	74.00	25.21	156	32	Vertical
3	2390.00	34.01	7.98	54.00	19.99	237	255	Vertical
4	2390.00	46.01	7.98	74.00	27.99	236	74	Vertical
5	2412.00	93.04	8.16	0.00	-93.04	223	180	Vertical
6	2412.00	83.20	8.16	0.00	-83.20	257	187	Vertical

Final Data List



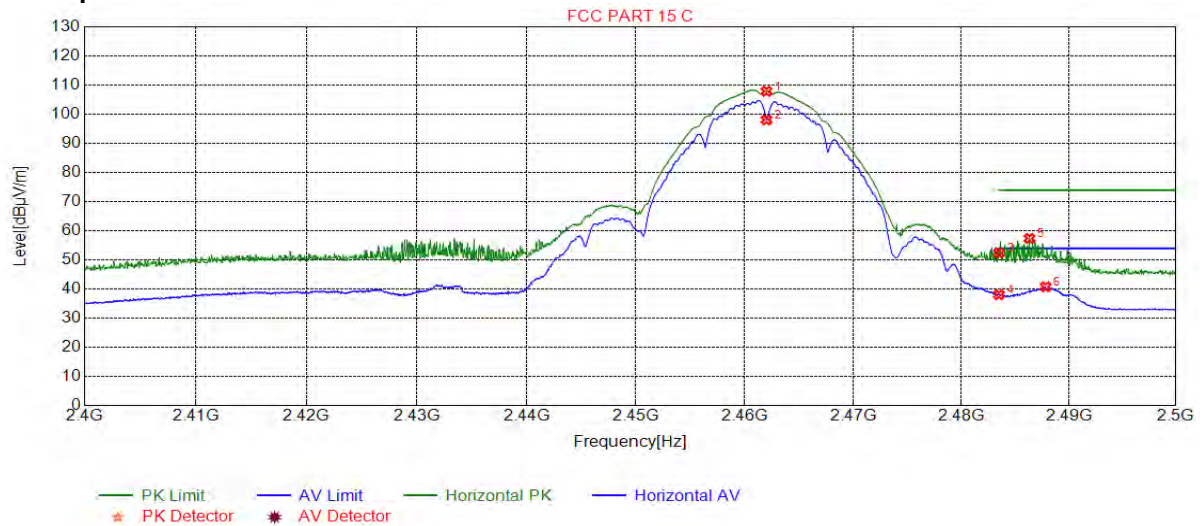
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4.10.1.3 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	107.87	8.75	0.00	-107.87	144	298	Horizontal
2	2462.00	98.07	8.75	0.00	-98.07	141	298	Horizontal
3	2483.50	52.46	8.50	74.00	21.54	139	238	Horizontal
4	2483.50	38.10	8.50	54.00	15.90	203	298	Horizontal
5	2486.34	57.42	8.52	74.00	16.58	225	290	Horizontal
6	2487.84	40.81	8.56	54.00	13.19	192	298	Horizontal

Final Data List



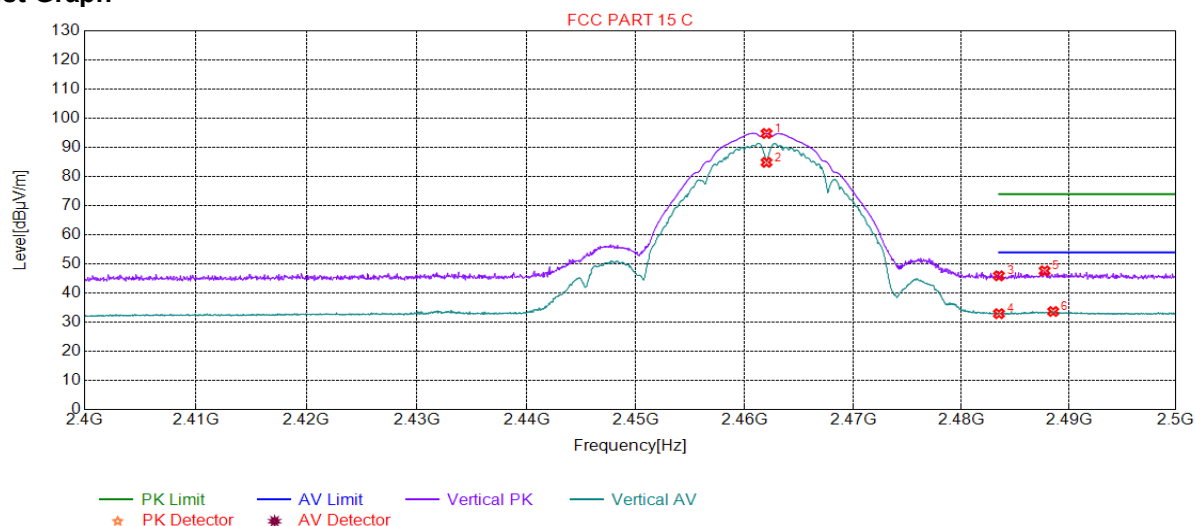
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4.10.1.4 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	94.78	8.75	0.00	-94.78	297	208	Vertical
2	2462.00	84.86	8.75	0.00	-84.86	232	208	Vertical
3	2483.50	45.95	8.50	74.00	28.05	174	85	Vertical
4	2483.50	32.97	8.50	54.00	21.03	226	295	Vertical
5	2487.74	47.67	8.56	74.00	26.33	191	224	Vertical
6	2488.54	33.72	8.58	54.00	20.28	210	85	Vertical

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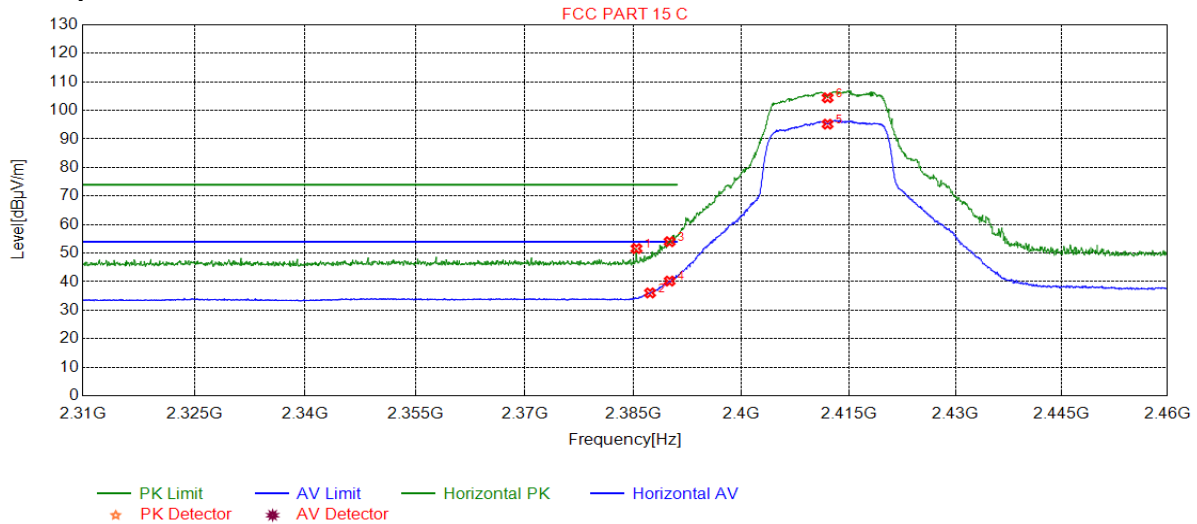
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4.10.1.5 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.41	51.60	7.84	74.00	22.40	231	1	Horizontal
2	2387.28	36.06	7.90	54.00	17.94	215	298	Horizontal
3	2390.00	54.02	7.98	74.00	19.98	246	230	Horizontal
4	2390.00	40.23	7.98	54.00	13.77	169	309	Horizontal
5	2412.00	95.19	8.16	0.00	-95.19	148	302	Horizontal
6	2412.00	104.43	8.16	0.00	-104.43	213	298	Horizontal

Final Data List



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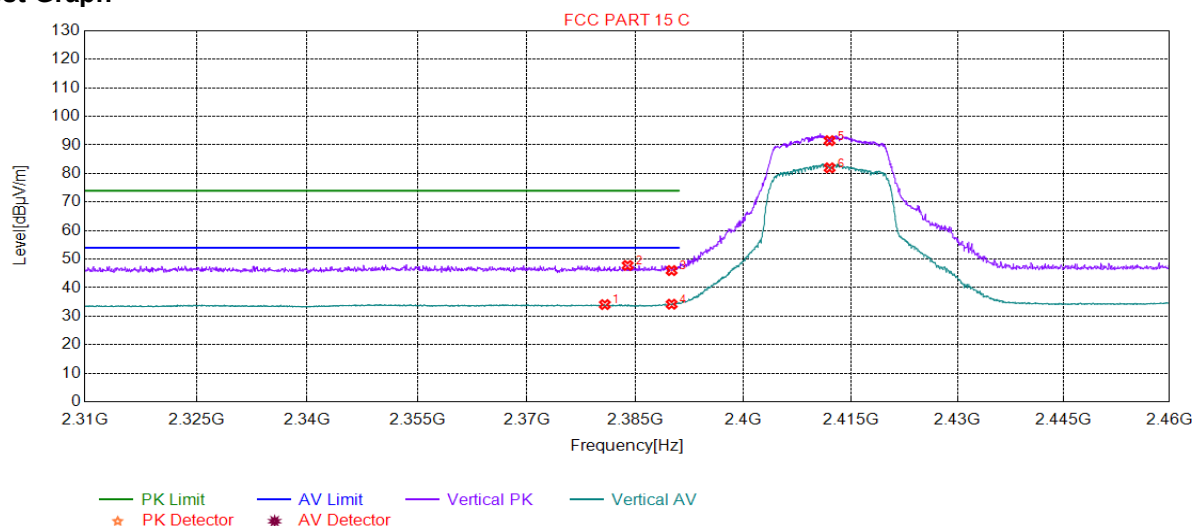
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4.10.1.6 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.76	34.09	7.97	54.00	19.91	199	360	Vertical
2	2383.91	47.80	7.87	74.00	26.20	156	265	Vertical
3	2390.00	46.01	7.98	74.00	27.99	239	168	Vertical
4	2390.00	34.21	7.98	54.00	19.79	263	190	Vertical
5	2412.00	91.50	8.16	0.00	-91.50	195	205	Vertical
6	2412.00	81.99	8.16	0.00	-81.99	183	205	Vertical

Final Data List

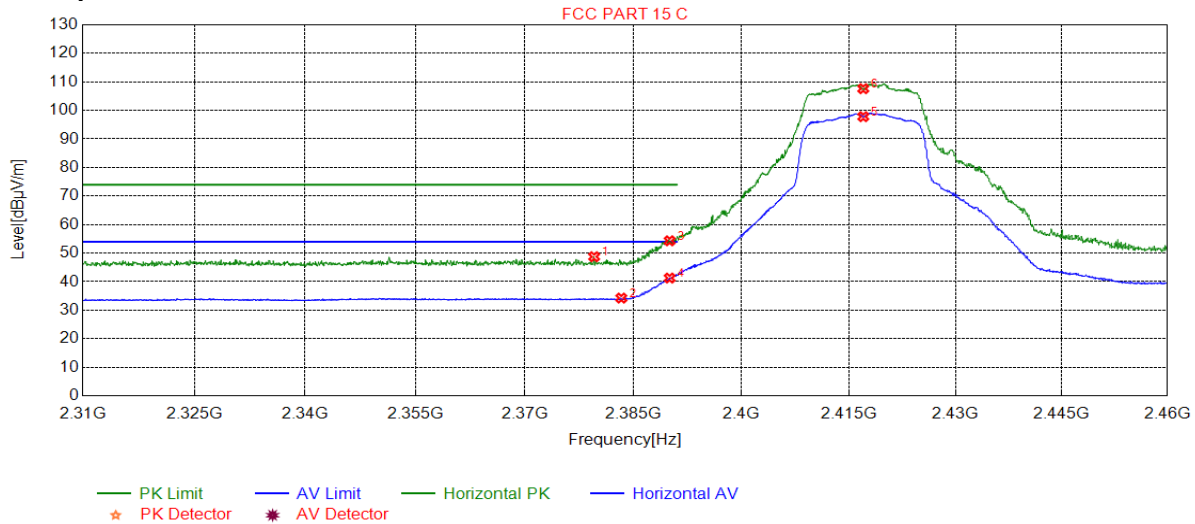


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4.10.1.7 802.11G_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.55	48.75	7.99	74.00	25.25	117	87	Horizontal
2	2383.31	34.26	7.89	54.00	19.74	242	346	Horizontal
3	2390.00	54.33	7.98	74.00	19.67	131	312	Horizontal
4	2390.00	41.28	7.98	54.00	12.72	228	301	Horizontal
5	2417.00	97.81	8.29	0.00	-97.81	165	305	Horizontal
6	2417.00	107.61	8.29	0.00	-107.61	118	297	Horizontal

Final Data List



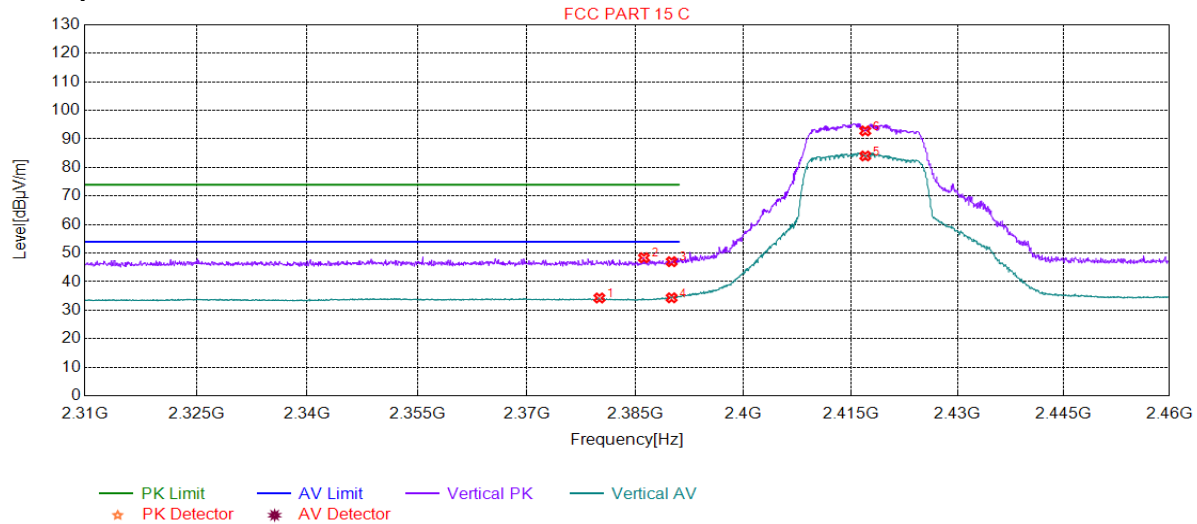
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4.10.1.8 802.11G_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.01	34.30	8.00	54.00	19.70	263	14	Vertical
2	2386.16	48.39	7.87	74.00	25.61	294	292	Vertical
3	2390.00	47.02	7.98	74.00	26.98	235	85	Vertical
4	2390.00	34.36	7.98	54.00	19.64	248	203	Vertical
5	2417.00	84.05	8.29	0.00	-84.05	235	203	Vertical
6	2417.00	92.82	8.29	0.00	-92.82	220	206	Vertical

Final Data List



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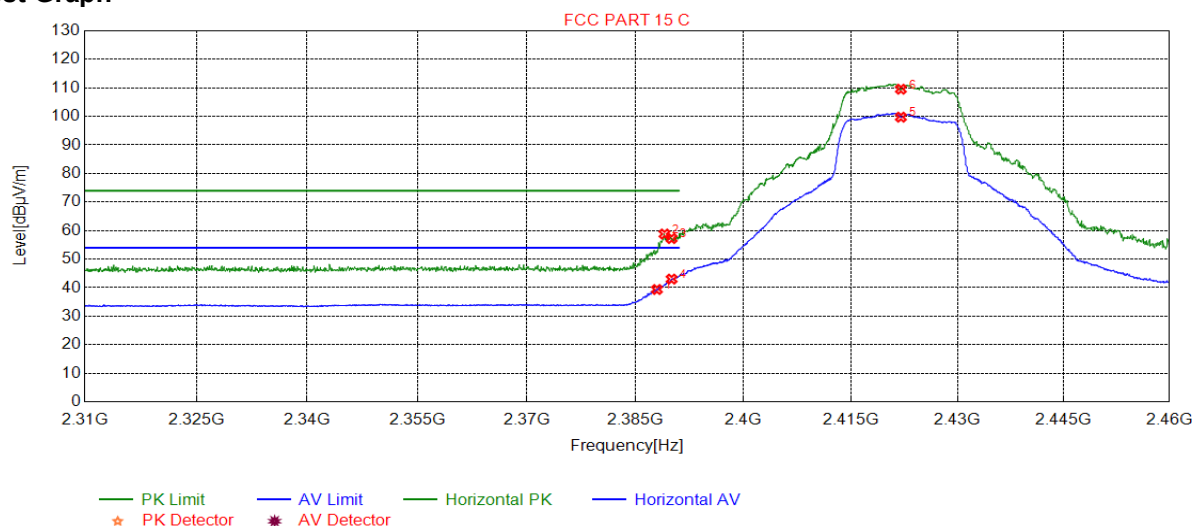
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4.10.1.9 802.11G_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.96	39.37	7.92	54.00	14.63	206	301	Horizontal
2	2389.01	58.81	7.95	74.00	15.19	208	301	Horizontal
3	2390.00	57.23	7.98	74.00	16.77	245	215	Horizontal
4	2390.00	43.02	7.98	54.00	10.98	134	301	Horizontal
5	2422.00	99.75	8.45	0.00	-99.75	195	298	Horizontal
6	2422.00	109.53	8.45	0.00	-109.53	191	298	Horizontal

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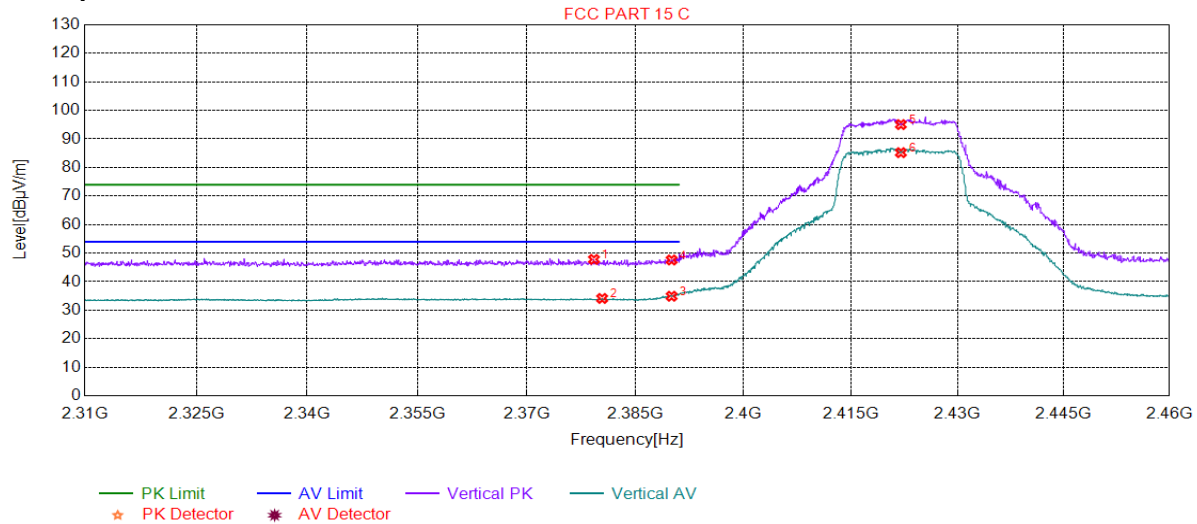
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4.10.1.10 802.11G_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.25	47.81	7.99	74.00	26.19	247	227	Vertical
2	2380.38	34.14	7.98	54.00	19.86	299	85	Vertical
3	2390.00	34.91	7.98	54.00	19.09	277	200	Vertical
4	2390.00	47.61	7.98	74.00	26.39	203	223	Vertical
5	2422.00	95.04	8.45	0.00	-95.04	276	204	Vertical
6	2422.00	85.21	8.45	0.00	-85.21	274	204	Vertical

Final Data List



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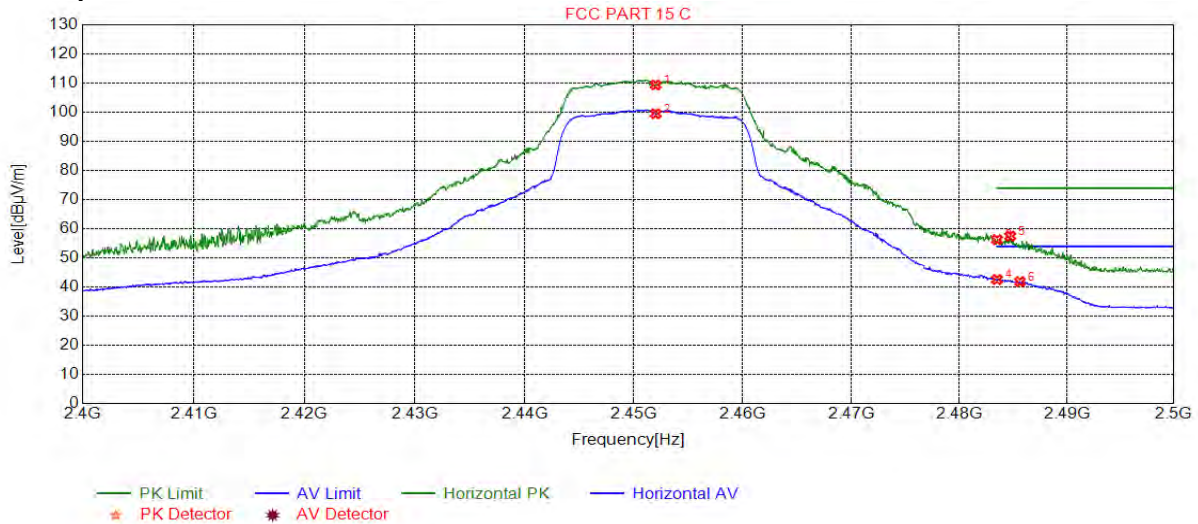
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4.10.1.11 802.11G_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	109.36	8.65	0.00	-109.36	175	294	Horizontal
2	2452.00	99.50	8.65	0.00	-99.50	148	298	Horizontal
3	2483.50	56.33	8.50	74.00	17.67	190	305	Horizontal
4	2483.50	42.62	8.50	54.00	11.38	198	309	Horizontal
5	2484.74	57.48	8.49	74.00	16.52	214	290	Horizontal
6	2485.64	41.90	8.51	54.00	12.10	127	305	Horizontal

Final Data List



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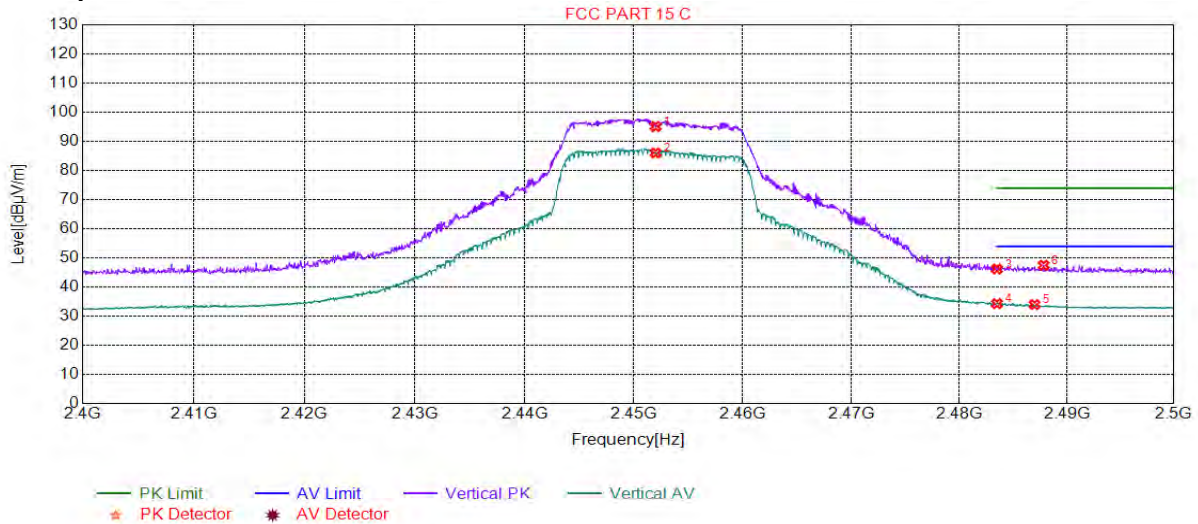
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4.10.1.12 802.11G_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	95.12	8.65	0.00	-95.12	250	206	Vertical
2	2452.00	86.04	8.65	0.00	-86.04	201	206	Vertical
3	2483.50	46.23	8.50	74.00	27.77	261	206	Vertical
4	2483.50	34.35	8.50	54.00	19.65	246	206	Vertical
5	2486.99	34.03	8.54	54.00	19.97	299	90	Vertical
6	2487.84	47.53	8.56	74.00	26.47	266	82	Vertical

Final Data List



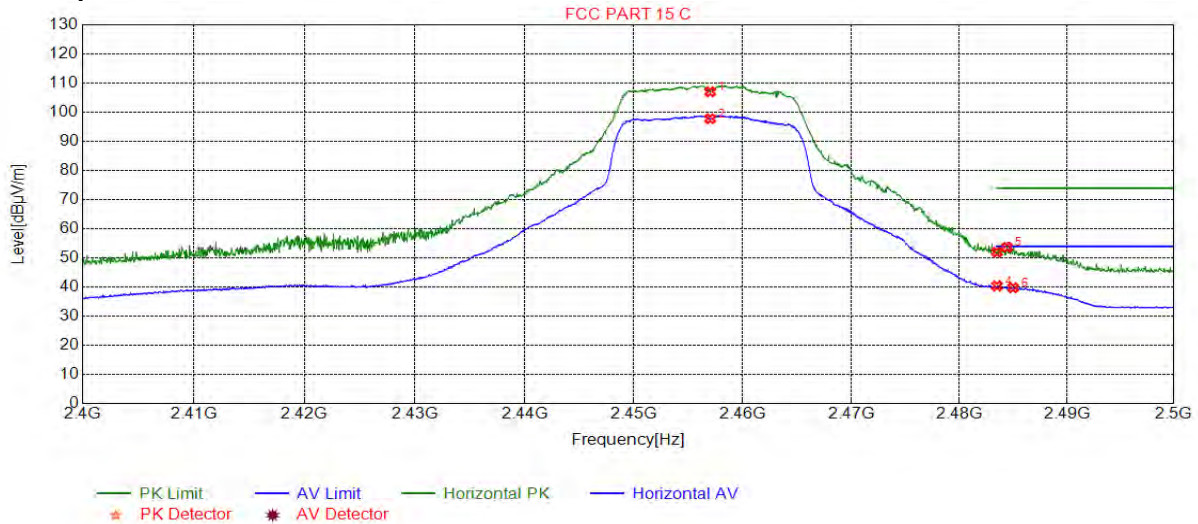
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4.10.1.13 802.11G_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	107.01	8.75	0.00	-107.01	144	308	Horizontal
2	2457.00	97.79	8.75	0.00	-97.79	141	308	Horizontal
3	2483.50	52.03	8.50	74.00	21.97	139	308	Horizontal
4	2483.50	40.43	8.50	54.00	13.57	203	308	Horizontal
5	2484.44	53.66	8.49	74.00	20.34	225	305	Horizontal
6	2484.99	39.80	8.49	54.00	14.20	192	305	Horizontal

Final Data List



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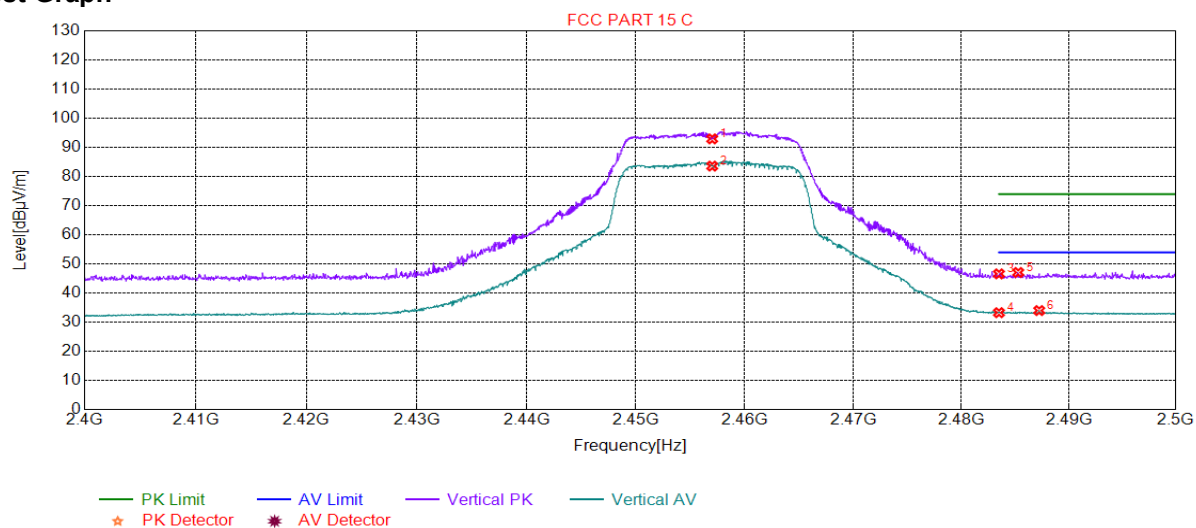
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4.10.1.14 802.11G_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	92.92	8.75	0.00	-92.92	165	205	Vertical
2	2457.00	83.59	8.75	0.00	-83.59	153	209	Vertical
3	2483.50	46.62	8.50	74.00	27.38	252	77	Vertical
4	2483.50	33.32	8.50	54.00	20.68	216	89	Vertical
5	2485.29	47.11	8.50	74.00	26.89	220	74	Vertical
6	2487.24	34.04	8.55	54.00	19.96	172	85	Vertical

Final Data List



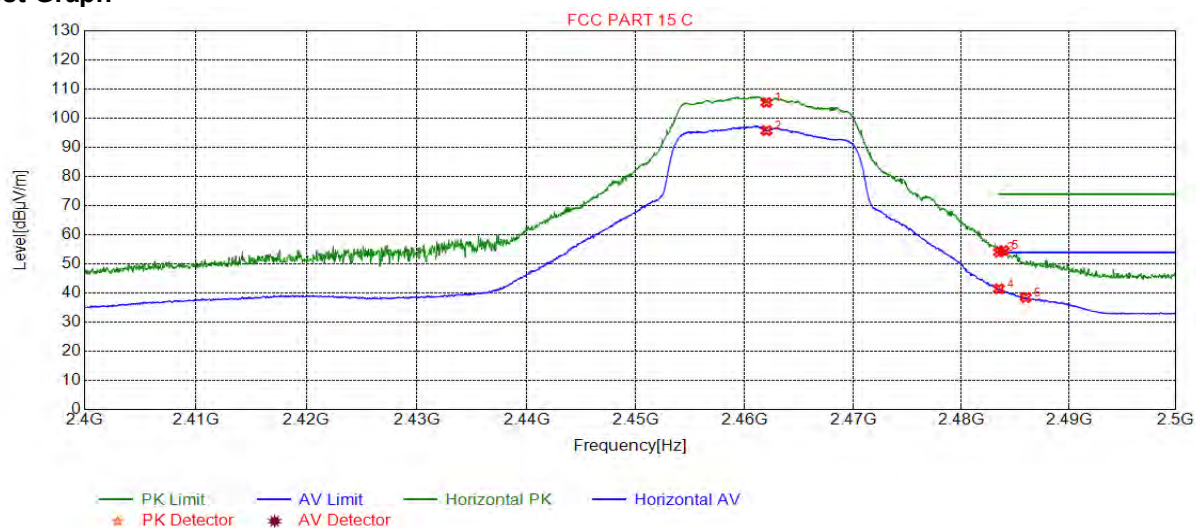
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4.10.1.15 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	105.38	8.75	0.00	-105.38	244	309	Horizontal
2	2462.00	95.75	8.75	0.00	-95.75	245	309	Horizontal
3	2483.50	54.06	8.50	74.00	19.94	120	294	Horizontal
4	2483.50	41.51	8.50	54.00	12.49	125	309	Horizontal
5	2483.94	54.63	8.50	74.00	19.37	201	305	Horizontal
6	2485.99	38.50	8.51	54.00	15.50	129	309	Horizontal

Final Data List



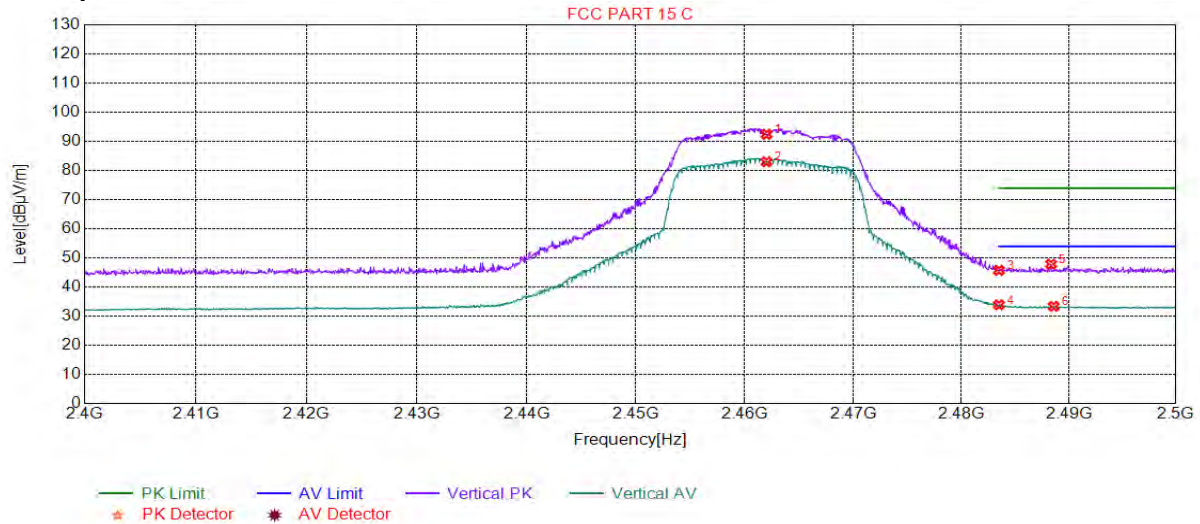
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4.10.1.16 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	92.44	8.75	0.00	-92.44	241	207	Vertical
2	2462.00	83.00	8.75	0.00	-83.00	191	207	Vertical
3	2483.50	45.77	8.50	74.00	28.23	185	290	Vertical
4	2483.50	33.95	8.50	54.00	20.05	259	90	Vertical
5	2488.34	47.90	8.58	74.00	26.10	243	123	Vertical
6	2488.59	33.43	8.58	54.00	20.57	299	86	Vertical

Final Data List

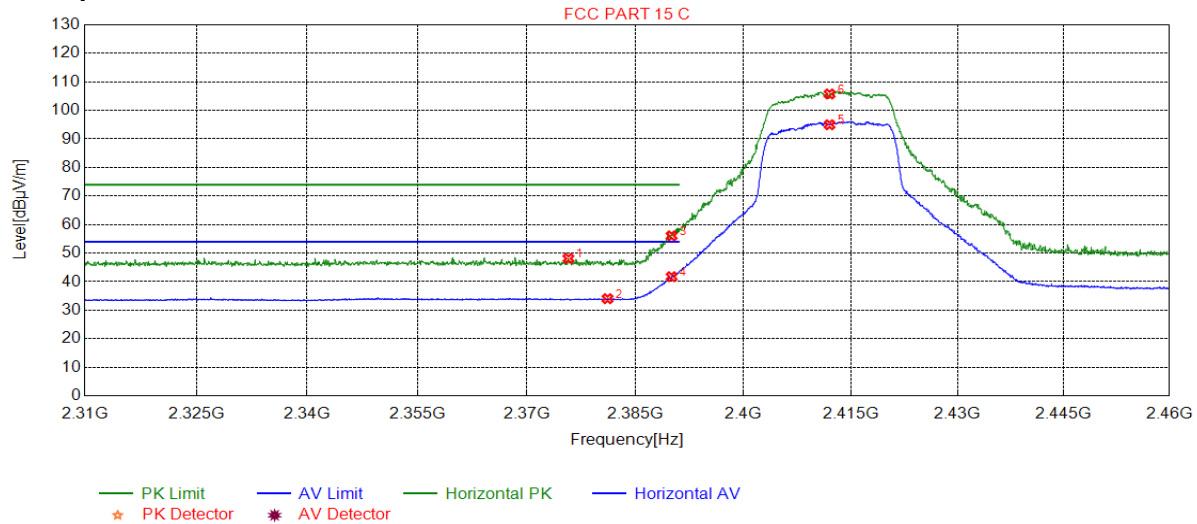


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4.10.1.17 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.73	48.13	7.95	74.00	25.87	192	312	Horizontal
2	2381.13	34.05	7.96	54.00	19.95	151	222	Horizontal
3	2390.00	56.07	7.98	74.00	17.93	157	298	Horizontal
4	2390.00	41.76	7.98	54.00	12.24	205	305	Horizontal
5	2412.00	94.97	8.16	0.00	-94.97	146	301	Horizontal
6	2412.00	105.76	8.16	0.00	-105.76	130	298	Horizontal

Final Data List



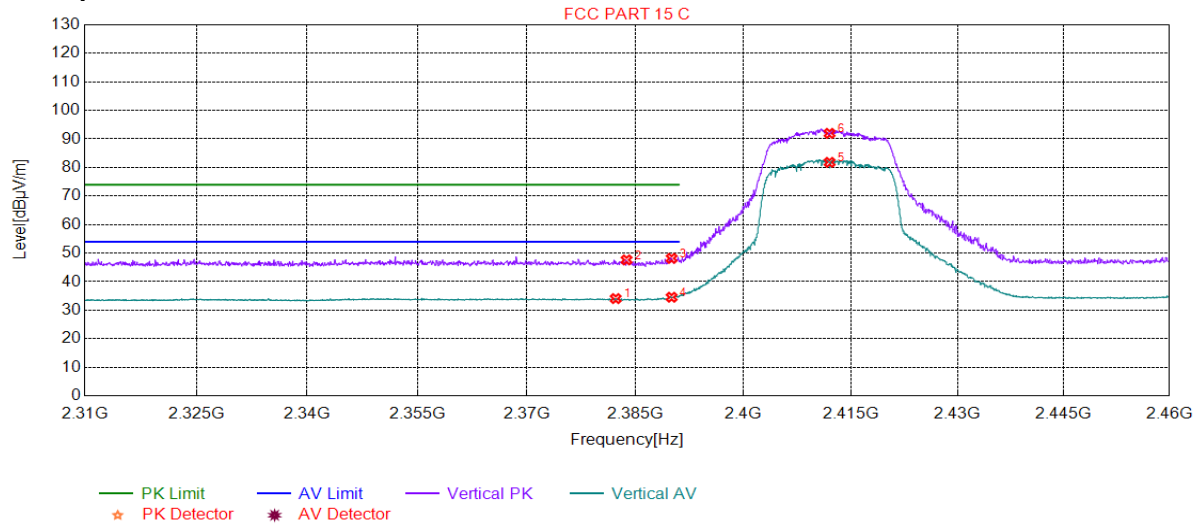
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4.10.1.18 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.26	34.09	7.92	54.00	19.91	222	261	Vertical
2	2383.76	47.64	7.87	74.00	26.36	235	348	Vertical
3	2390.00	48.18	7.98	74.00	25.82	244	276	Vertical
4	2390.00	34.56	7.98	54.00	19.44	291	205	Vertical
5	2412.00	81.81	8.16	0.00	-81.81	214	205	Vertical
6	2412.00	91.97	8.16	0.00	-91.97	209	205	Vertical

Final Data List



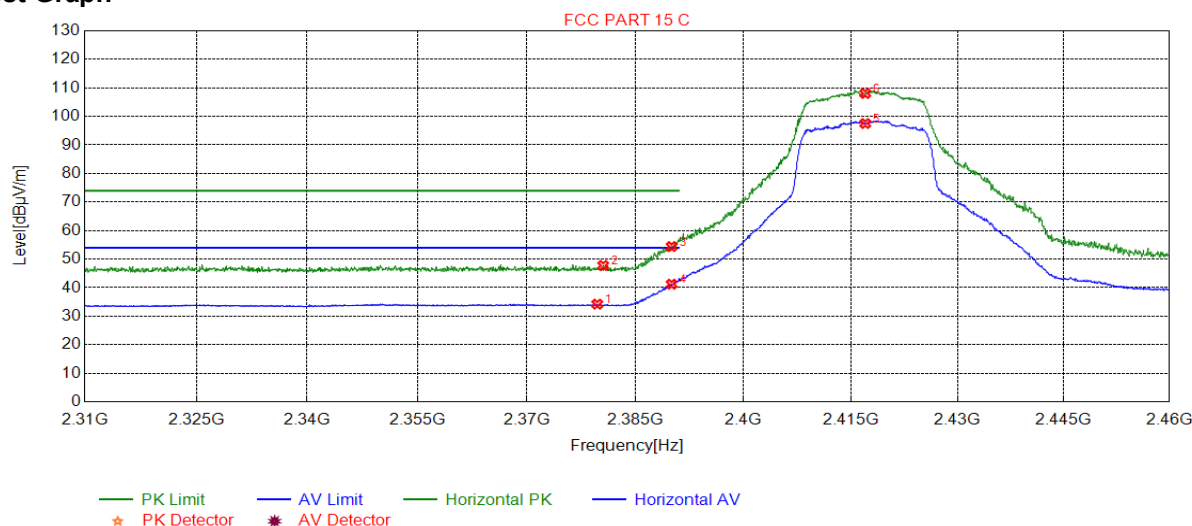
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4.10.1.19 802.11N20_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.70	34.23	7.99	54.00	19.77	249	82	Horizontal
2	2380.53	47.79	7.98	74.00	26.21	158	230	Horizontal
3	2390.00	54.42	7.98	74.00	19.58	122	301	Horizontal
4	2390.00	41.23	7.98	54.00	12.77	135	301	Horizontal
5	2417.00	97.52	8.29	0.00	-97.52	164	298	Horizontal
6	2417.00	108.06	8.29	0.00	-108.06	195	294	Horizontal

Final Data List



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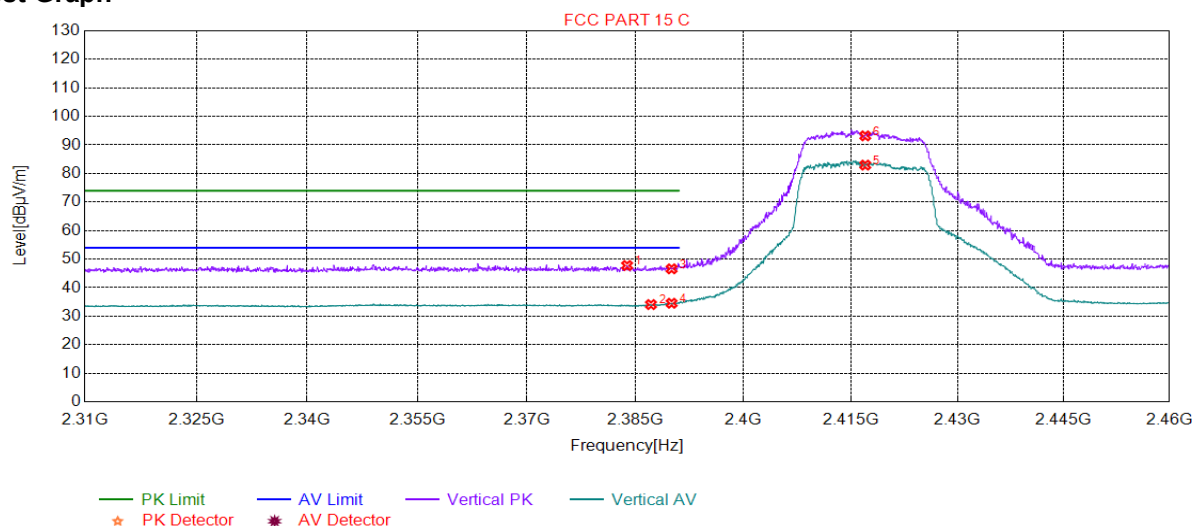
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4.10.1.20 802.11N20_Channel 2

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.83	47.77	7.87	74.00	26.23	246	70	Vertical
2	2387.13	34.09	7.90	54.00	19.91	251	205	Vertical
3	2390.00	46.61	7.98	74.00	27.39	230	303	Vertical
4	2390.00	34.56	7.98	54.00	19.44	174	205	Vertical
5	2417.00	82.94	8.29	0.00	-82.94	212	205	Vertical
6	2417.00	93.19	8.29	0.00	-93.19	232	205	Vertical

Final Data List



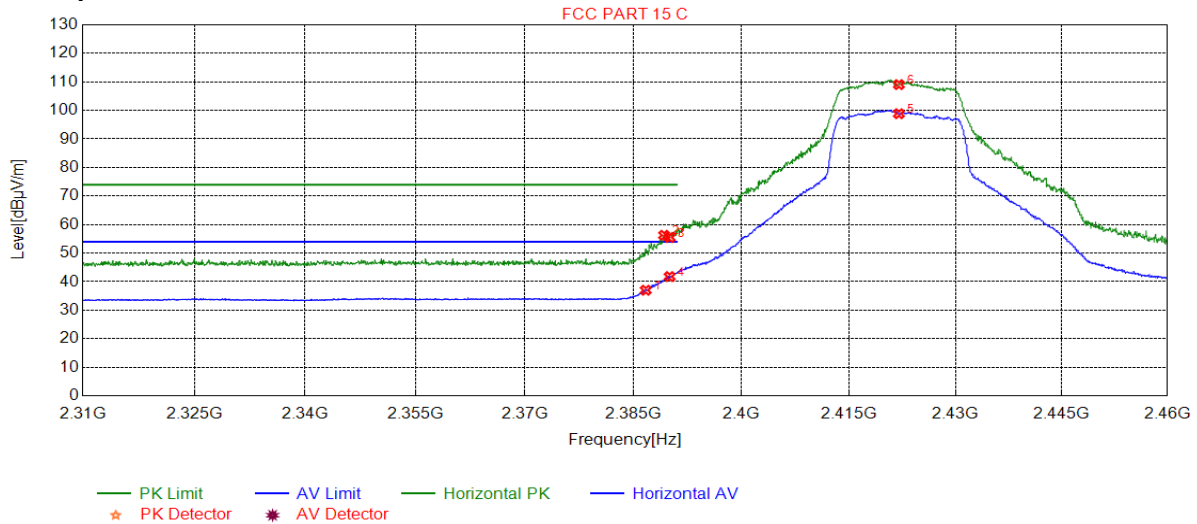
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4.10.1.21 802.11N20_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.68	37.01	7.88	54.00	16.99	108	298	Horizontal
2	2389.23	56.27	7.96	74.00	17.73	189	309	Horizontal
3	2390.00	55.48	7.98	74.00	18.52	225	234	Horizontal
4	2390.00	41.78	7.98	54.00	12.22	148	305	Horizontal
5	2422.00	98.85	8.45	0.00	-98.85	121	298	Horizontal
6	2422.00	109.05	8.45	0.00	-109.05	124	294	Horizontal

Final Data List



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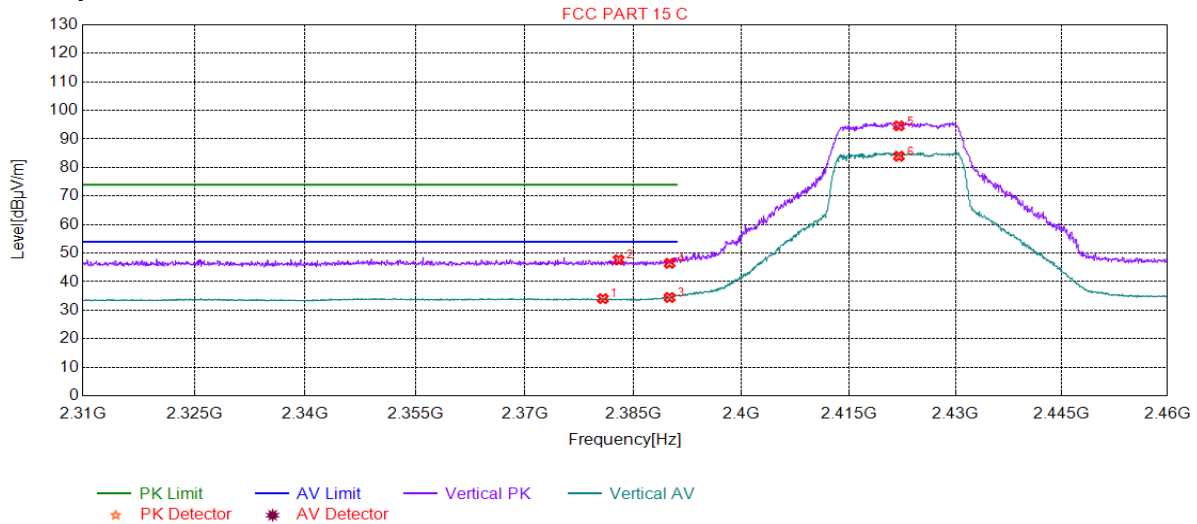
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4.10.1.22 802.11N20_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.76	34.08	7.97	54.00	19.92	258	190	Vertical
2	2382.93	47.67	7.90	74.00	26.33	286	358	Vertical
3	2390.00	34.47	7.98	54.00	19.53	254	220	Vertical
4	2390.00	46.44	7.98	74.00	27.56	298	227	Vertical
5	2422.00	94.59	8.45	0.00	-94.59	174	208	Vertical
6	2422.00	83.95	8.45	0.00	-83.95	158	208	Vertical

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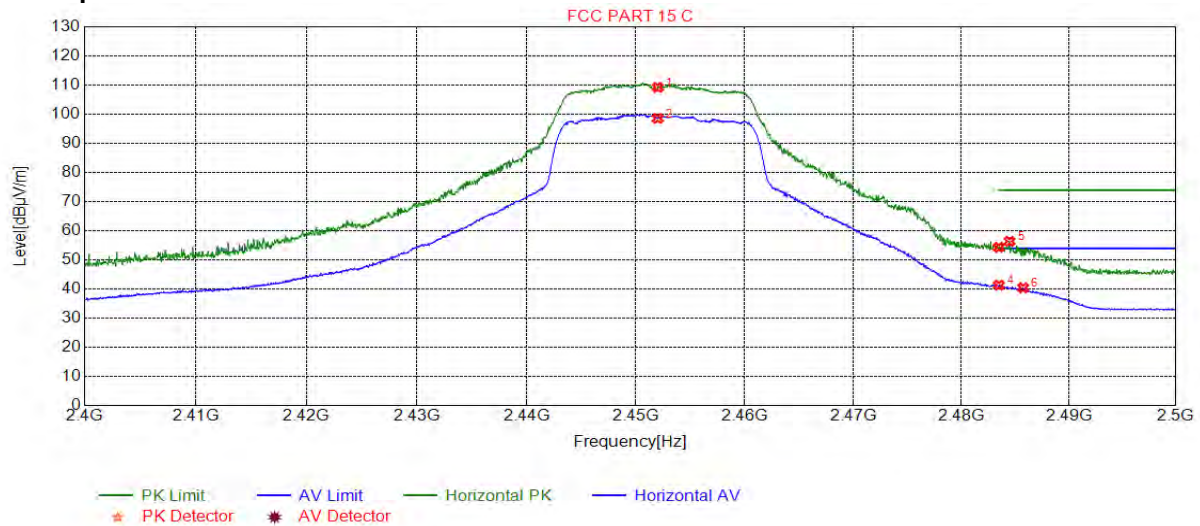
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4.10.1.23 802.11N20_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	109.19	8.65	0.00	-109.19	199	294	Horizontal
2	2452.00	98.55	8.65	0.00	-98.55	175	298	Horizontal
3	2483.50	54.35	8.50	74.00	19.65	126	305	Horizontal
4	2483.50	41.37	8.50	54.00	12.63	129	305	Horizontal
5	2484.49	56.40	8.49	74.00	17.60	130	301	Horizontal
6	2485.74	40.47	8.51	54.00	13.53	204	309	Horizontal

Final Data List



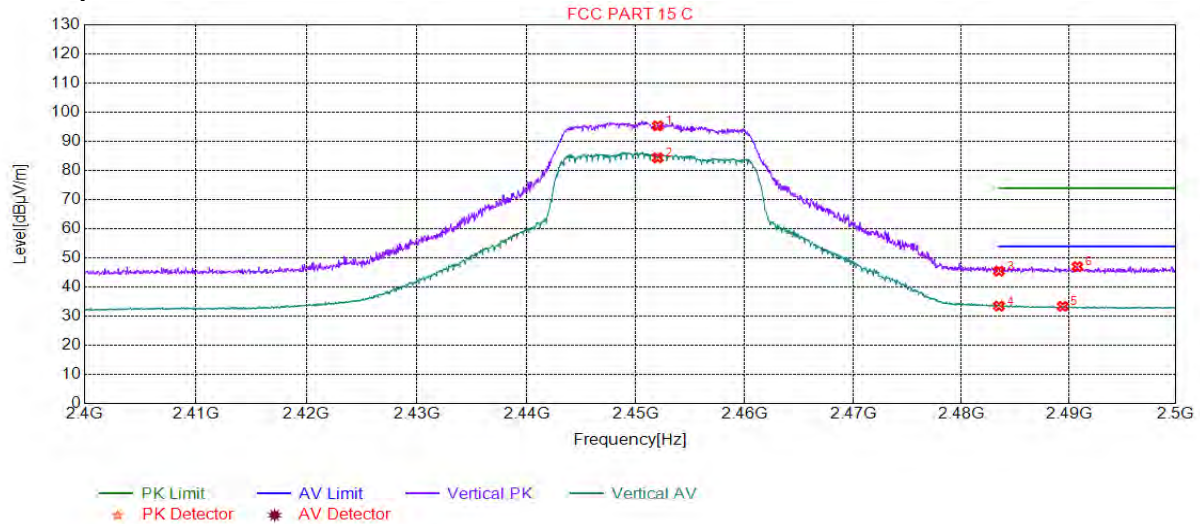
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4.10.1.24 802.11N20_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	95.31	8.65	0.00	-95.31	228	205	Vertical
2	2452.00	84.36	8.65	0.00	-84.36	203	205	Vertical
3	2483.50	45.50	8.50	74.00	28.50	293	277	Vertical
4	2483.50	33.52	8.50	54.00	20.48	160	205	Vertical
5	2489.44	33.41	8.61	54.00	20.59	275	273	Vertical
6	2490.79	47.05	8.62	74.00	26.95	229	149	Vertical

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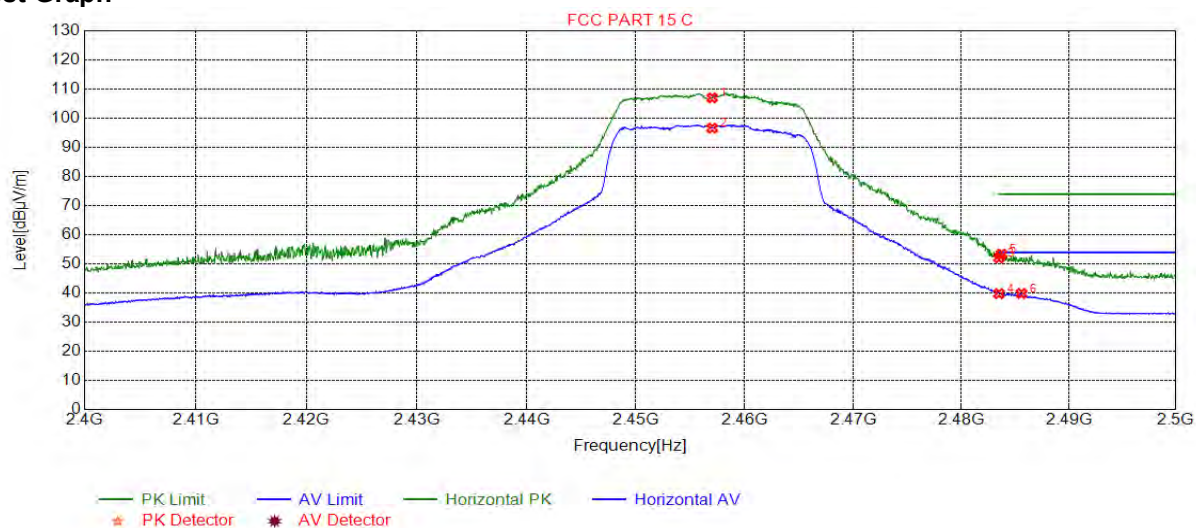
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4.10.1.25 802.11N20_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	106.99	8.75	0.00	-106.99	154	294	Horizontal
2	2457.00	96.60	8.75	0.00	-96.60	157	309	Horizontal
3	2483.50	52.07	8.50	74.00	21.93	105	305	Horizontal
4	2483.50	39.83	8.50	54.00	14.17	187	309	Horizontal
5	2483.74	53.43	8.50	74.00	20.57	144	305	Horizontal
6	2485.59	39.90	8.50	54.00	14.10	137	305	Horizontal

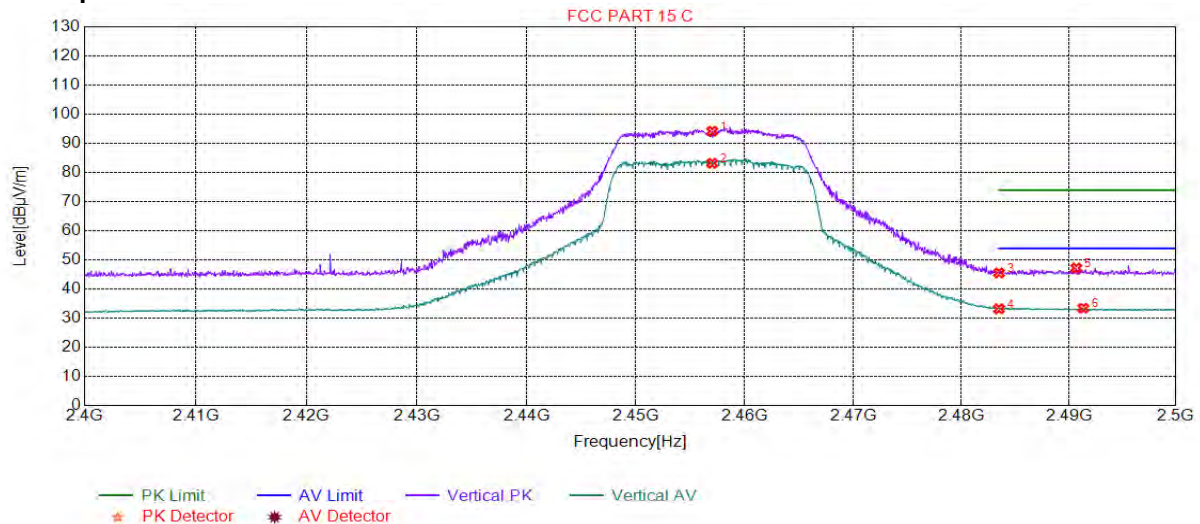
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4.10.1.26 802.11N20_Channel 10

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2457.00	94.17	8.75	0.00	-94.17	244	210	Vertical
2	2457.00	83.19	8.75	0.00	-83.19	286	206	Vertical
3	2483.50	45.59	8.50	74.00	28.41	175	134	Vertical
4	2483.50	33.24	8.50	54.00	20.76	184	288	Vertical
5	2490.69	47.25	8.62	74.00	26.75	292	149	Vertical
6	2491.34	33.46	8.61	54.00	20.54	270	273	Vertical

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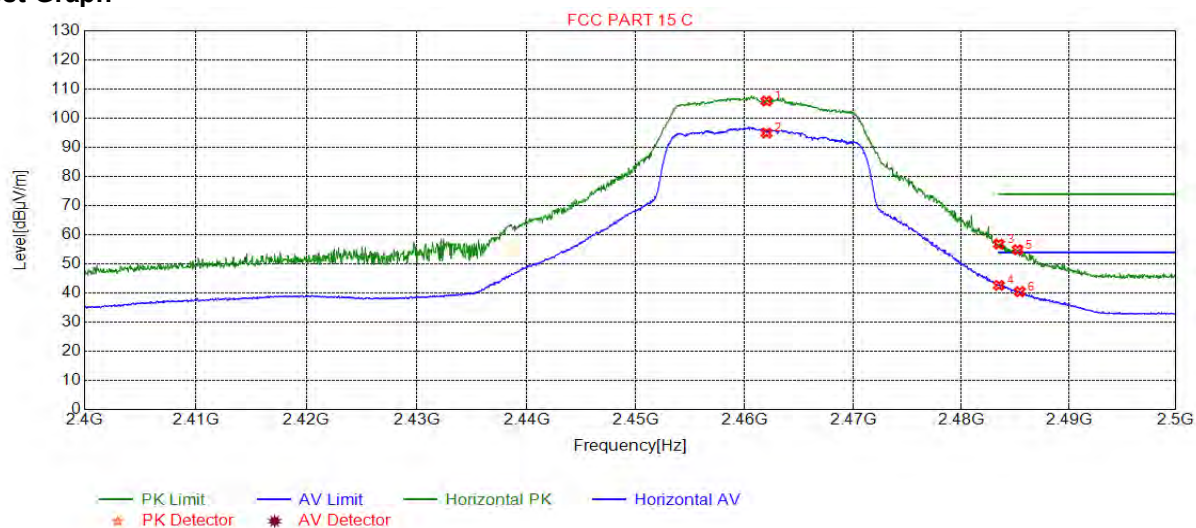
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4.10.1.27 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	105.90	8.75	0.00	-105.90	168	305	Horizontal
2	2462.00	94.95	8.75	0.00	-94.95	238	309	Horizontal
3	2483.50	56.83	8.50	74.00	17.17	150	297	Horizontal
4	2483.50	42.67	8.50	54.00	11.33	202	309	Horizontal
5	2485.24	54.90	8.49	74.00	19.10	225	309	Horizontal
6	2485.44	40.51	8.50	54.00	13.49	112	305	Horizontal

Final Data List



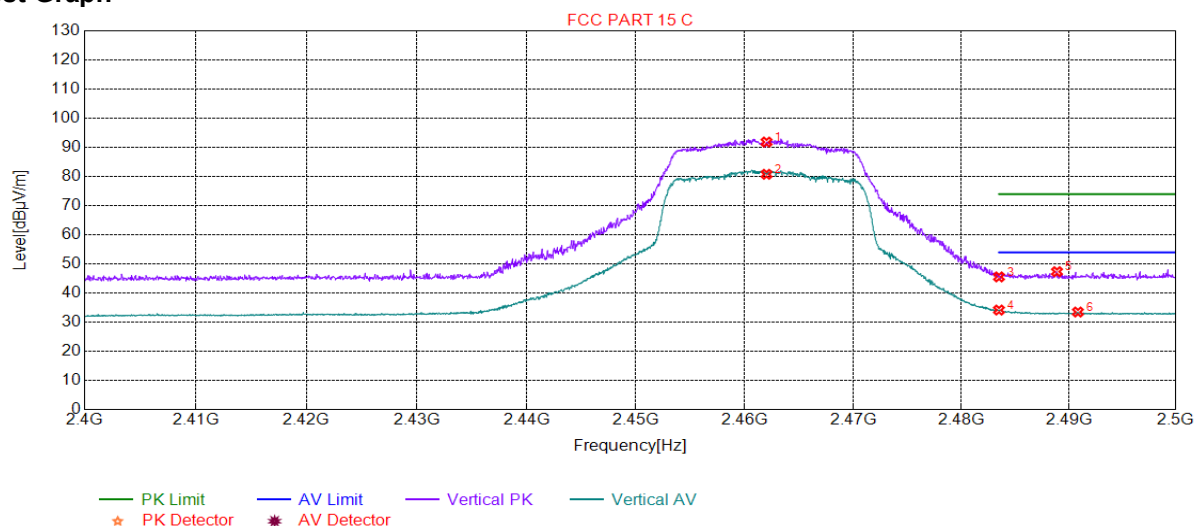
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4.10.1.28 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	91.84	8.75	0.00	-91.84	253	208	Vertical
2	2462.00	80.78	8.75	0.00	-80.78	265	208	Vertical
3	2483.50	45.59	8.50	74.00	28.41	251	205	Vertical
4	2483.50	34.21	8.50	54.00	19.79	269	85	Vertical
5	2488.89	47.38	8.59	74.00	26.62	234	224	Vertical
6	2490.84	33.54	8.62	54.00	20.46	225	62	Vertical

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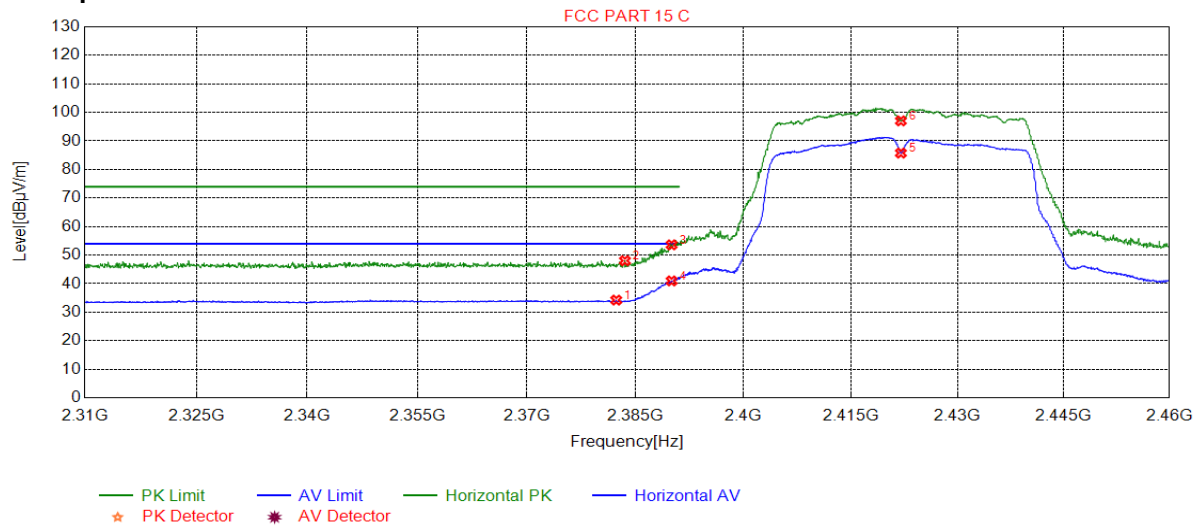
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4.10.1.29 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.33	34.25	7.92	54.00	19.75	138	306	Horizontal
2	2383.53	48.05	7.88	74.00	25.95	147	306	Horizontal
3	2390.00	53.62	7.98	74.00	20.38	203	311	Horizontal
4	2390.00	40.97	7.98	54.00	13.03	212	302	Horizontal
5	2422.00	85.76	8.45	0.00	-85.76	116	306	Horizontal
6	2422.00	97.03	8.45	0.00	-97.03	160	302	Horizontal

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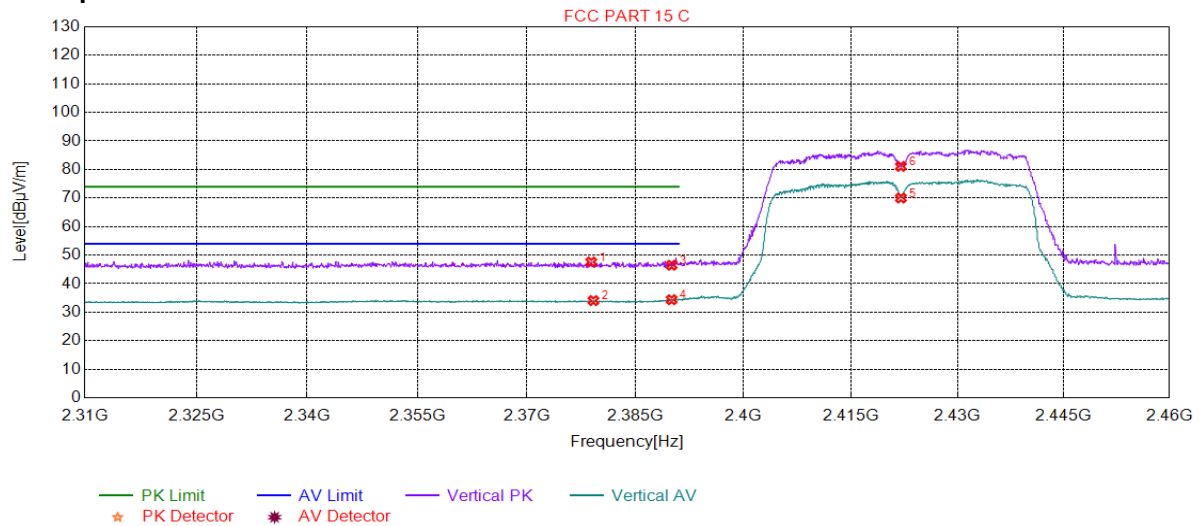
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4.10.1.30 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.88	47.60	7.98	74.00	26.40	219	133	Vertical
2	2379.18	34.08	7.99	54.00	19.92	211	157	Vertical
3	2390.00	46.48	7.98	74.00	27.52	164	228	Vertical
4	2390.00	34.40	7.98	54.00	19.60	223	224	Vertical
5	2422.00	70.01	8.45	0.00	-70.01	178	288	Vertical
6	2422.00	81.09	8.45	0.00	-81.09	152	288	Vertical

Final Data List



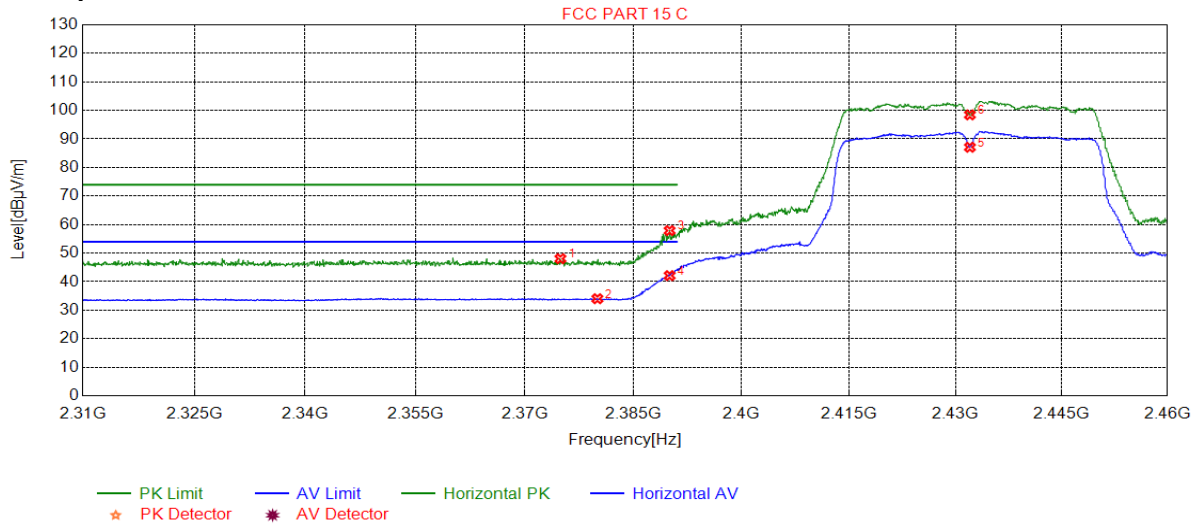
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4.10.1.31 802.11N40_Channel 5

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.90	48.05	7.95	74.00	25.95	227	226	Horizontal
2	2380.01	34.04	8.00	54.00	19.96	172	98	Horizontal
3	2390.00	57.90	7.98	74.00	16.10	217	306	Horizontal
4	2390.00	42.13	7.98	54.00	11.87	210	302	Horizontal
5	2432.00	87.10	8.59	0.00	-87.10	231	306	Horizontal
6	2432.00	98.45	8.59	0.00	-98.45	221	298	Horizontal

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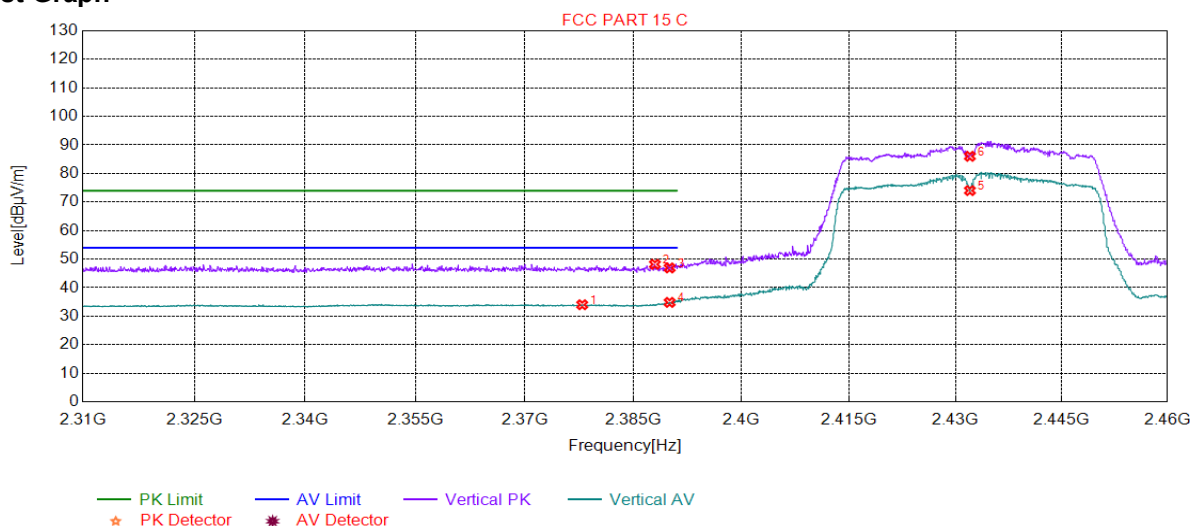
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4.10.1.32 802.11N40_Channel 5

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.90	34.03	7.97	54.00	19.97	249	360	Vertical
2	2387.96	48.19	7.92	74.00	25.81	218	326	Vertical
3	2390.00	46.92	7.98	74.00	27.08	214	190	Vertical
4	2390.00	34.85	7.98	54.00	19.15	230	223	Vertical
5	2432.00	74.02	8.59	0.00	-74.02	152	209	Vertical
6	2432.00	86.03	8.59	0.00	-86.03	174	205	Vertical

Final Data List

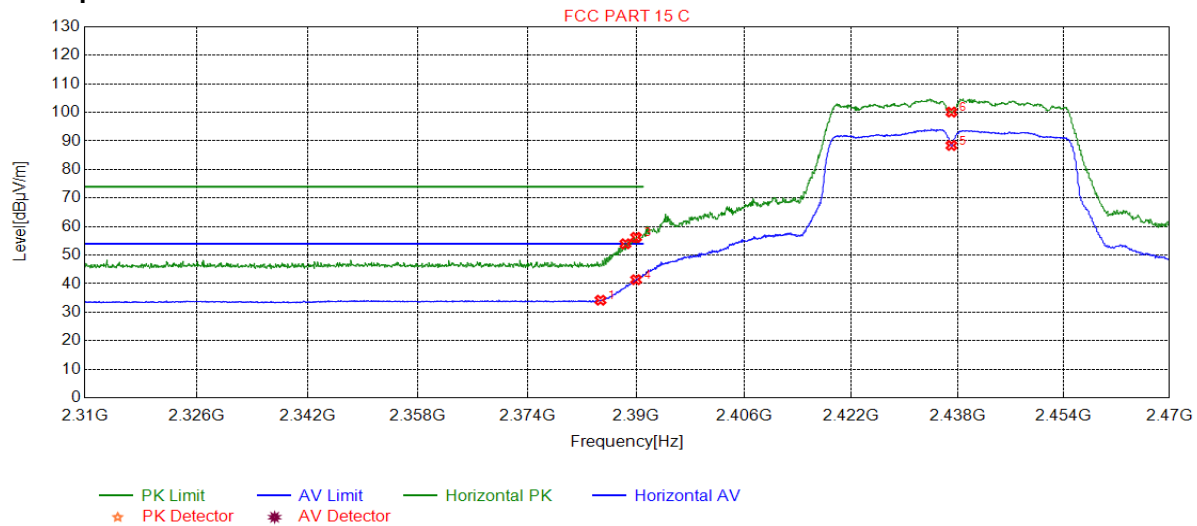


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4.10.1.33 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.75	34.21	7.84	54.00	19.79	108	240	Horizontal
2	2388.43	53.98	7.94	74.00	20.02	185	221	Horizontal
3	2390.00	56.25	7.98	74.00	17.75	210	312	Horizontal
4	2390.00	41.40	7.98	54.00	12.60	175	308	Horizontal
5	2437.00	88.42	8.66	0.00	-88.42	203	304	Horizontal
6	2437.00	100.12	8.66	0.00	-100.12	195	315	Horizontal

Final Data List



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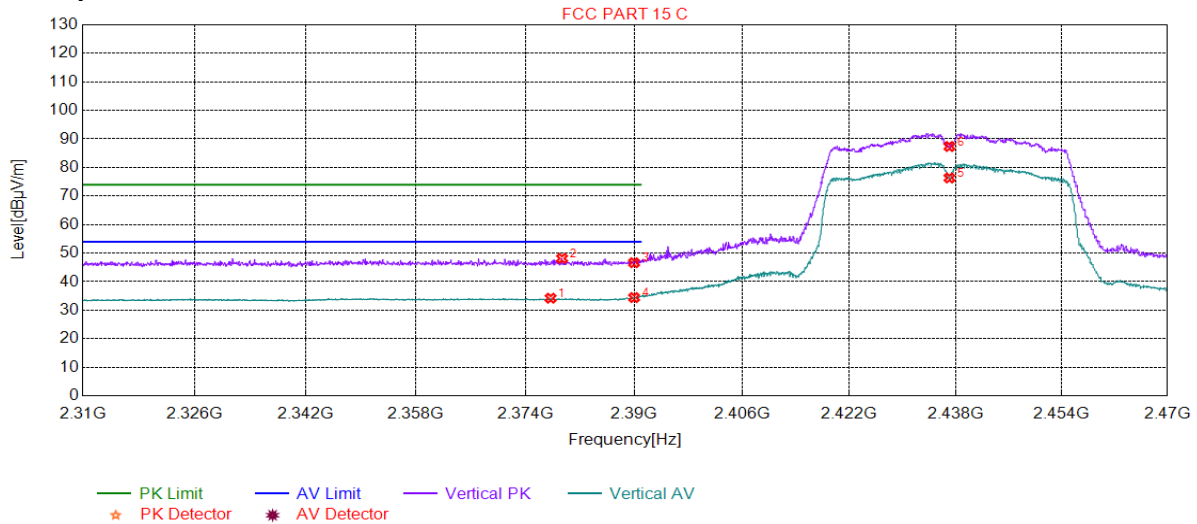
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4.10.1.34 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.71	34.22	7.97	54.00	19.78	267	282	Vertical
2	2379.39	48.15	7.99	74.00	25.85	162	248	Vertical
3	2390.00	46.65	7.98	74.00	27.35	255	6	Vertical
4	2390.00	34.44	7.98	54.00	19.56	163	221	Vertical
5	2437.00	76.34	8.66	0.00	-76.34	156	202	Vertical
6	2437.00	87.36	8.66	0.00	-87.36	167	202	Vertical

Final Data List



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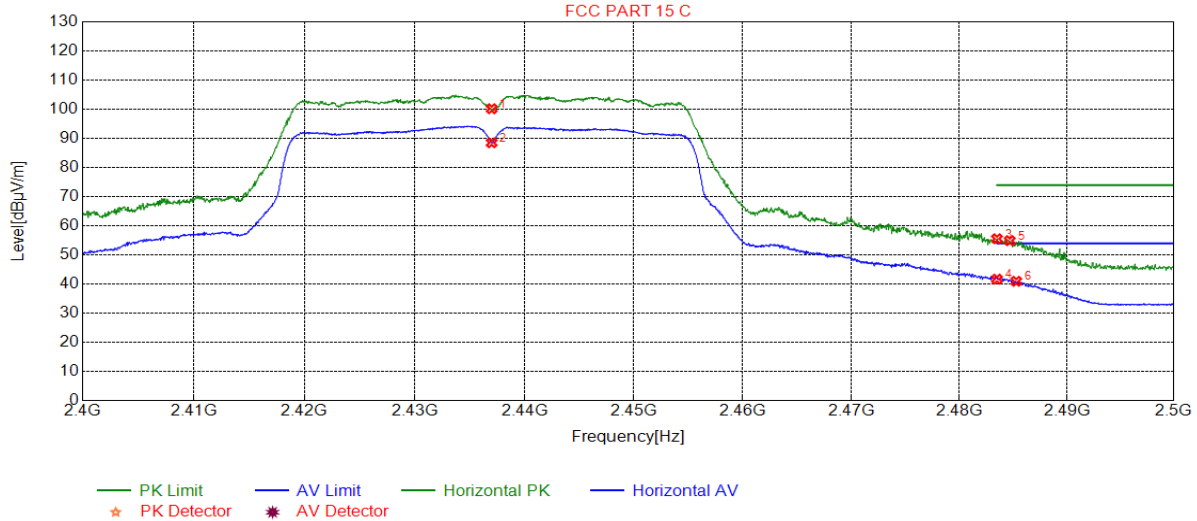
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4.10.1.35 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2437.00	100.17	8.66	0.00	-100.17	111	308	Horizontal
2	2437.00	88.50	8.66	0.00	-88.50	204	308	Horizontal
3	2483.50	55.57	8.50	74.00	18.43	245	308	Horizontal
4	2483.50	41.73	8.50	54.00	12.27	175	296	Horizontal
5	2484.69	54.93	8.49	74.00	19.07	202	289	Horizontal
6	2485.29	40.99	8.50	54.00	13.01	115	308	Horizontal

Final Data List



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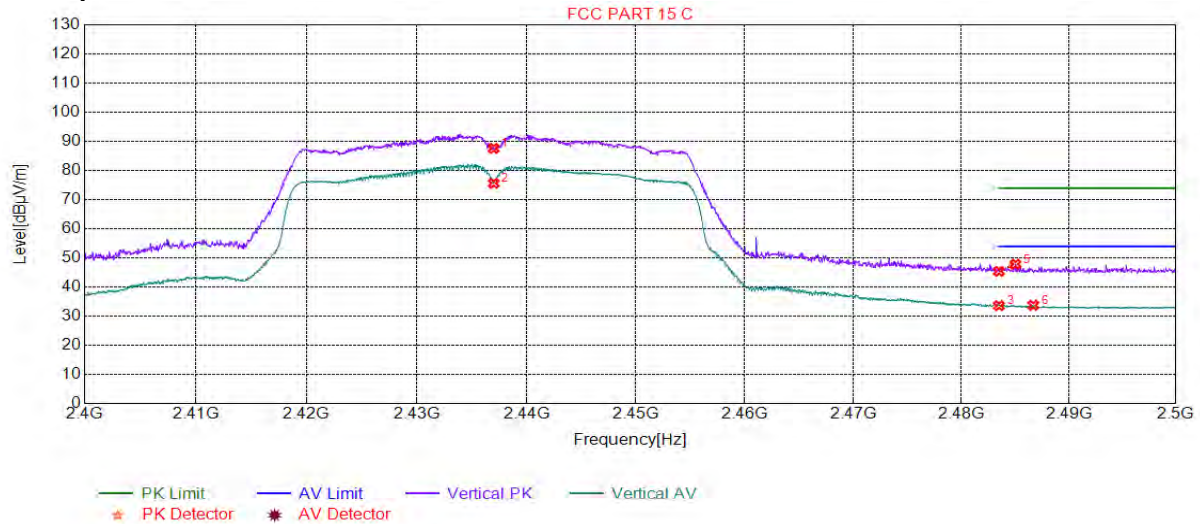
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4.10.1.36 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2437.00	87.59	8.66	0.00	-87.59	283	200	Vertical
2	2437.00	75.62	8.66	0.00	-75.62	236	208	Vertical
3	2483.50	33.66	8.50	54.00	20.34	220	81	Vertical
4	2483.50	45.43	8.50	74.00	28.57	152	126	Vertical
5	2485.04	47.89	8.49	74.00	26.11	190	260	Vertical
6	2486.69	33.78	8.53	54.00	20.22	233	204	Vertical

Final Data List



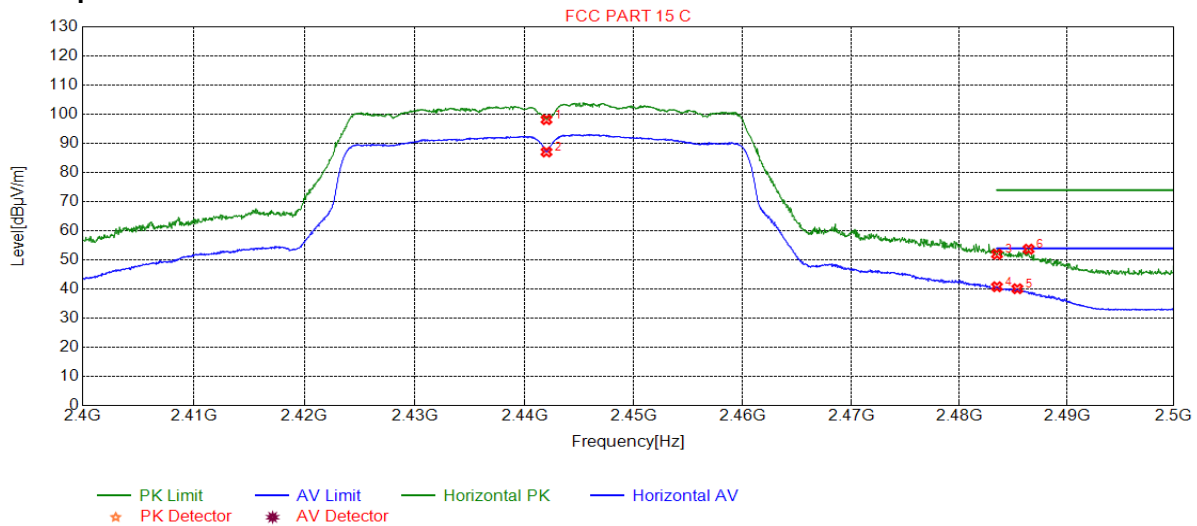
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4.10.1.37 802.11N40_Channel 7

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2442.00	98.14	8.65	0.00	-98.14	117	310	Horizontal
2	2442.00	87.06	8.65	0.00	-87.06	165	303	Horizontal
3	2483.50	51.99	8.50	74.00	22.01	127	306	Horizontal
4	2483.50	40.83	8.50	54.00	13.17	156	310	Horizontal
5	2485.39	40.15	8.50	54.00	13.85	111	310	Horizontal
6	2486.44	53.73	8.53	74.00	20.27	224	295	Horizontal

Final Data List



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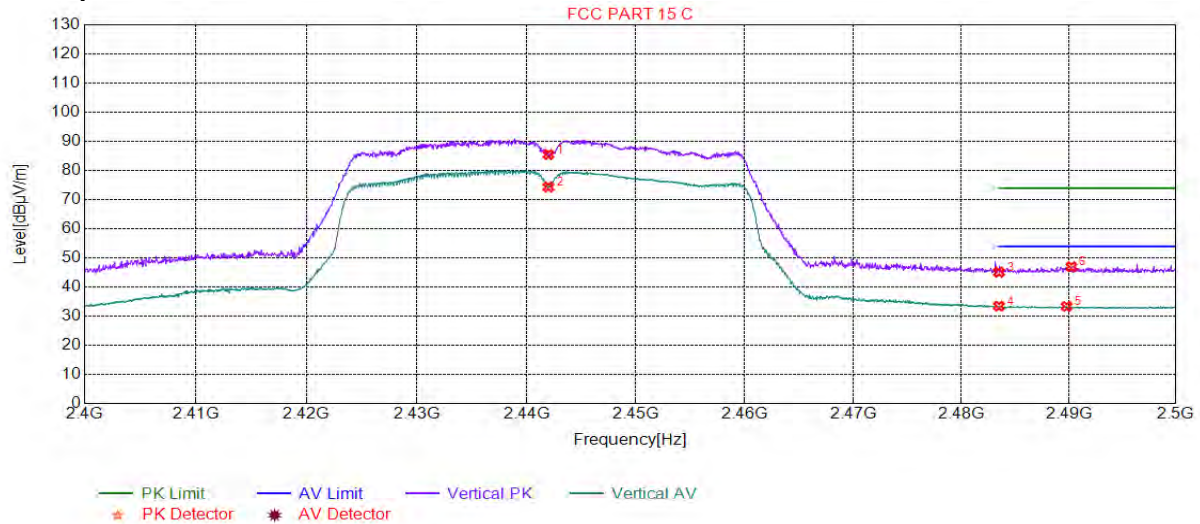
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4.10.1.38 802.11N40_Channel 7

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2442.00	85.48	8.65	0.00	-85.48	155	200	Vertical
2	2442.00	74.36	8.65	0.00	-74.36	181	204	Vertical
3	2483.50	45.13	8.50	74.00	28.87	163	159	Vertical
4	2483.50	33.49	8.50	54.00	20.51	180	87	Vertical
5	2489.79	33.38	8.62	54.00	20.62	173	84	Vertical
6	2490.24	47.01	8.62	74.00	26.99	261	298	Vertical

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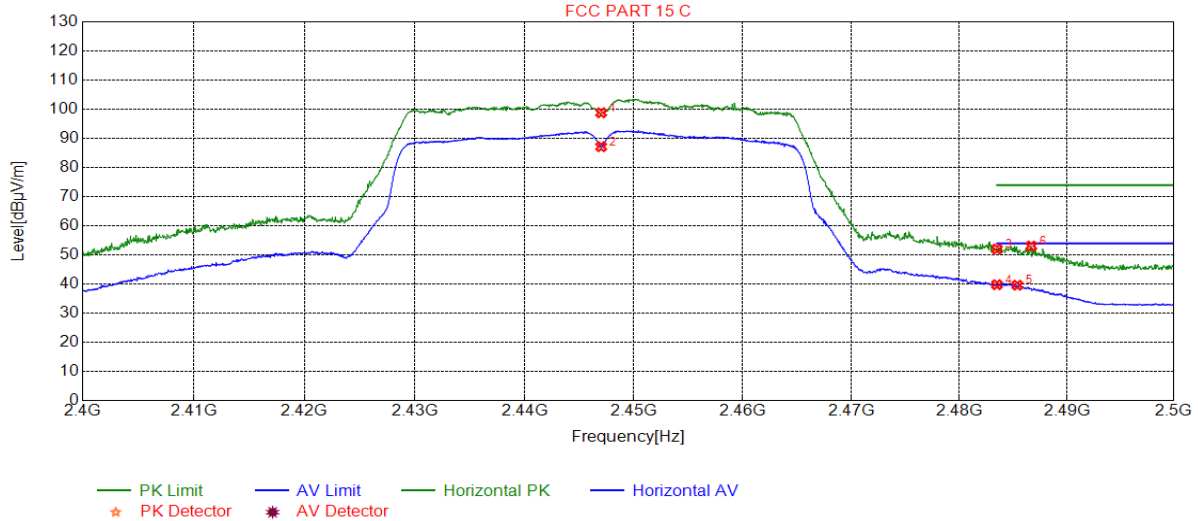
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4.10.1.39 802.11N40_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	98.79	8.59	0.00	-98.79	168	299	Horizontal
2	2447.00	87.16	8.59	0.00	-87.16	232	302	Horizontal
3	2483.50	52.06	8.50	74.00	21.94	243	306	Horizontal
4	2483.50	39.82	8.50	54.00	14.18	213	306	Horizontal
5	2485.39	39.66	8.50	54.00	14.34	196	306	Horizontal
6	2486.69	53.08	8.53	74.00	20.92	149	299	Horizontal

Final Data List



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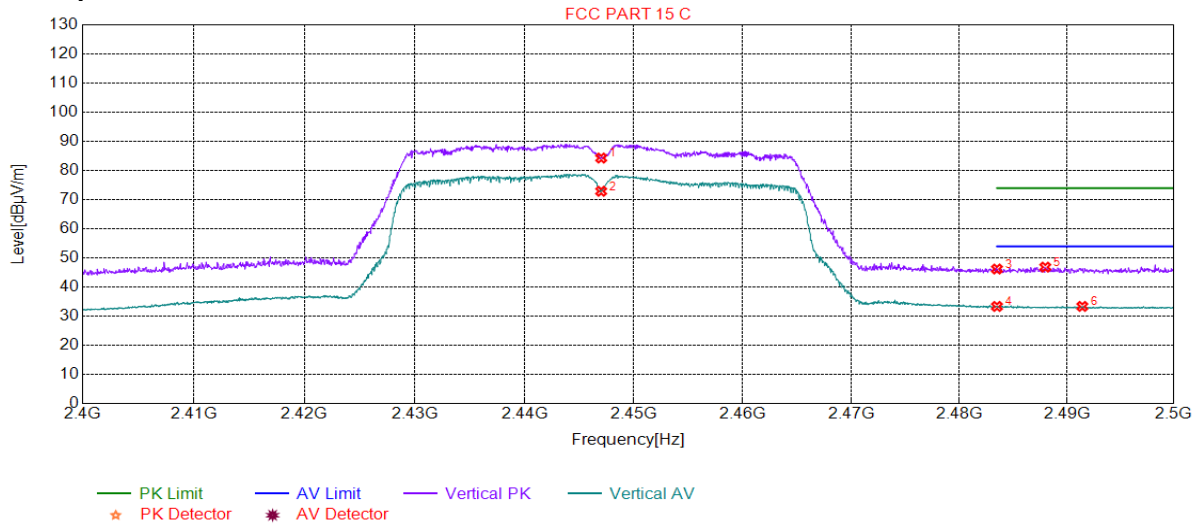
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4.10.1.40 802.11N40_Channel 8

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2447.00	84.29	8.59	0.00	-84.29	230	200	Vertical
2	2447.00	72.90	8.59	0.00	-72.90	200	204	Vertical
3	2483.50	46.23	8.50	74.00	27.77	171	113	Vertical
4	2483.50	33.40	8.50	54.00	20.60	278	80	Vertical
5	2487.99	46.88	8.57	74.00	27.12	220	2	Vertical
6	2491.44	33.41	8.61	54.00	20.59	273	144	Vertical

Final Data List



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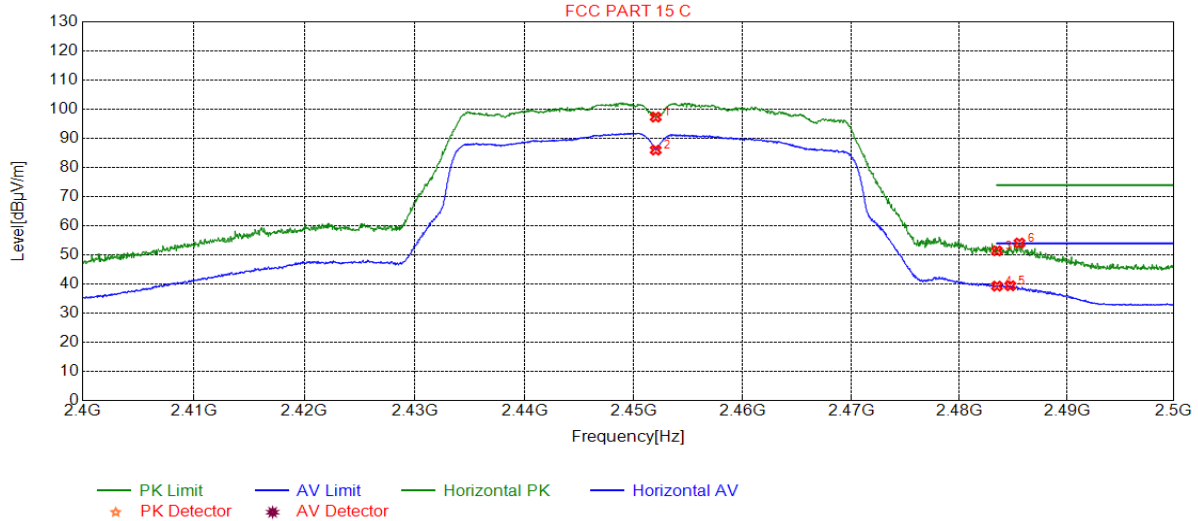
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4.10.1.41 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	97.32	8.65	0.00	-97.32	115	311	Horizontal
2	2452.00	86.00	8.65	0.00	-86.00	164	303	Horizontal
3	2483.50	51.44	8.50	74.00	22.56	121	307	Horizontal
4	2483.50	39.34	8.50	54.00	14.66	211	303	Horizontal
5	2484.74	39.45	8.49	54.00	14.55	221	307	Horizontal
6	2485.59	54.11	8.50	74.00	19.89	235	311	Horizontal

Final Data List



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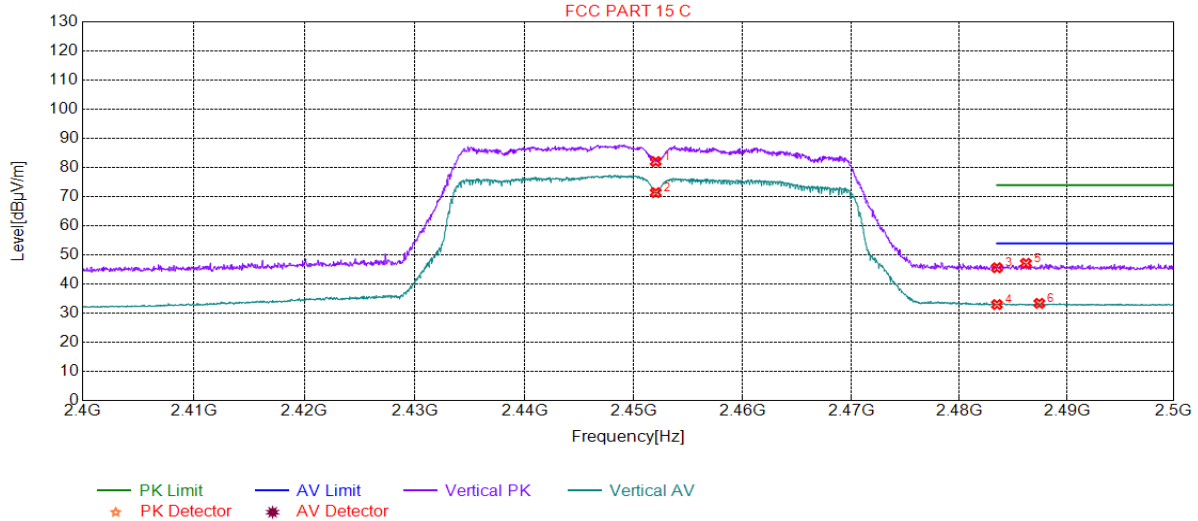
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4.10.1.42 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	82.06	8.65	0.00	-82.06	258	219	Vertical
2	2452.00	71.40	8.65	0.00	-71.40	229	204	Vertical
3	2483.50	45.64	8.50	74.00	28.36	173	77	Vertical
4	2483.50	33.01	8.50	54.00	20.99	245	80	Vertical
5	2486.19	47.16	8.52	74.00	26.84	154	193	Vertical
6	2487.44	33.42	8.55	54.00	20.58	294	80	Vertical

Final Data List

Remark:

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

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

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



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

Lab A:

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

Lab B:

No.	Item	Measurement Uncertainty
1	Radiated Spurious emission test	$\pm 4.8\text{dB}$ (30MHz-1GHz)
		$\pm 5.2\text{dB}$ (1GHz-6GHz)
		$\pm 5.5\text{dB}$ (6GHz-18GHz)
		$\pm 5.02\text{dB}$ (18GHz-40GHz)
2	Conduct emission test	$\pm 3.4\text{ dB}$ (9KHz- 30MHz)



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6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologie Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/1/3	2022/1/2
				2020/1/4	2021/1/3
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CF AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

CE TEST SYSTEM					
EQUIPMENT	MANUFACTURER	MODEL NO.	INVENTORY NO.	CAL DATE	CAL DUE DATE
SHIELDING ROOM	BRILLIANT-EMC	N/A	XAW03-35-01	2019-09-11	2022-09-10
TEST RECEIVER	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
ARTIFICIAL NETWORK	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
TEMPERATURE AND HUMIDITY METER MEASUREMENT SOFTWARE	MINGGAO	TH101B	XAW01-01-01	2020-11-06	2021-11-05
	TONSCEND	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RSE TEST SYSTEM					
EQUIPMENT	MANUFACTURER	MODEL NO.	INVENTORY NO.	CAL DATE	CAL DUE DATE
SEMI-ANECHOIC CHAMBER	BRILLIANT-EMC	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA SIGNAL ANALYZER	KEYSIGHT	N9020A	XAW01-06-01	2020-04-02	2021-04-01
TEST RECEIVER	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
RECEIVING ANTENNA (30MHZ-3GHZ)	SCHWARZBECK	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
RECEIVING ANTENNA (1GHZ~18GHZ)	SCHWARZBECK	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
RECEIVING ANTENNA (15GHZ~40GHZ)	SCHWARZBECK	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
DIRECTIONAL ANTENNA RACK CONTROLLER	MAX-FULL	MF-7802BS	XAW03-03-01	NCR	NCR
HIGH-SPEED ANTENNA RACK CONTROLLER	MAX-FULL	MF-7802	XAW03-04-01	NCR	NCR
FILTER BANK	TONSCEND	JS0806-F	XAW03-05-01	NCR	NCR
FILTER BANK	TONSCEND	JS0806S	XAW03-05-02	NCR	NCR
AMPLIFIER	TONSCEND	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
AMPLIFIER	TONSCEND	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
AMPLIFIER	TONSCEND	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
AMPLIFIER	SHANGHAI STEED	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
TEMPERATURE AND HUMIDITY METER	MINGGAO	TH101B	XAW01-01-01	2020-11-06	2021-11-05
MEASUREMENT SOFTWARE	TONSCEND	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A PCE&DTS&NII Setup Photos.



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Appendix



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DTS Bandwidth Test Result

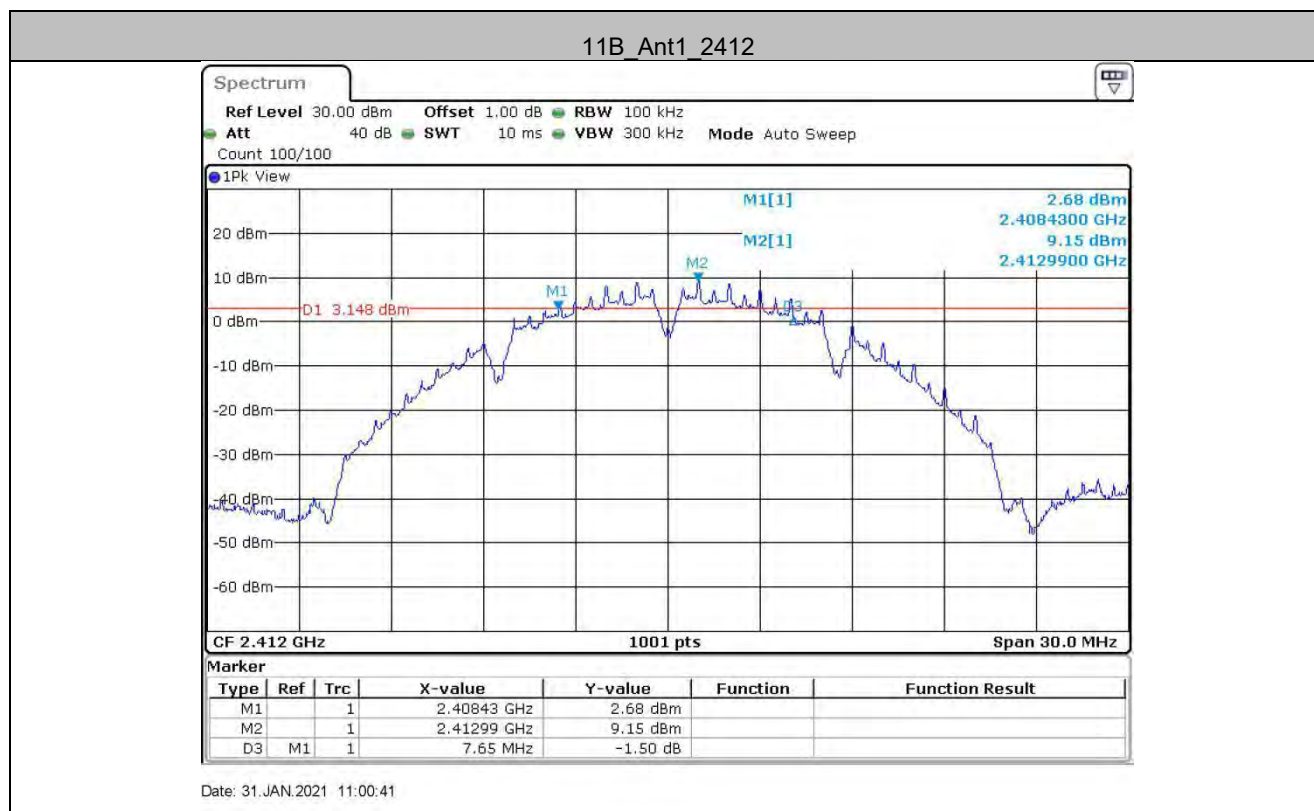
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.650	2408.430	2416.080	0.5	PASS
		2437	8.160	2432.920	2441.080	0.5	PASS
		2462	8.130	2457.920	2466.050	0.5	PASS
11G	Ant1	2412	15.390	2404.410	2419.800	0.5	PASS
		2437	15.360	2429.230	2444.590	0.5	PASS
		2462	15.390	2454.200	2469.590	0.5	PASS
11N20SISO	Ant1	2412	15.360	2404.410	2419.770	0.5	PASS
		2437	15.510	2429.080	2444.590	0.5	PASS
		2462	16.020	2453.570	2469.590	0.5	PASS
11N40SISO	Ant1	2422	35.160	2404.420	2439.580	0.5	PASS
		2437	35.280	2419.360	2454.640	0.5	PASS
		2452	35.280	2434.360	2469.640	0.5	PASS



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Test Graphs



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