

	On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycl}$ f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. i. Test the EUT in the lowest channel, the middle channel, the Highest channel j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. k. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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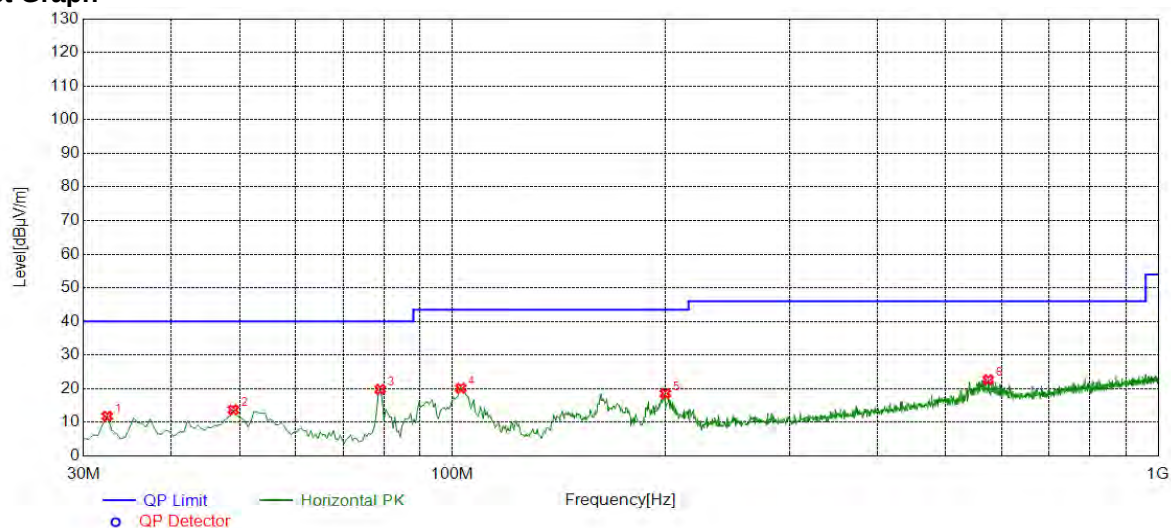
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4.9.1 Radiated Emission below 1GHz

4.9.1.1 Charge + Transmitting

Project Information			
Mode:	2.4G WIFI	State:	
Environment:	Temp: 25℃; Humi:60%	Engineer:	

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.4262	11.85	-32.80	40.00	28.15	184	53	Horizontal
2	48.9245	13.76	-30.19	40.00	26.24	201	245	Horizontal
3	79.0095	19.81	-35.71	40.00	20.19	243	65	Horizontal
4	102.786	20.18	-31.68	43.50	23.32	188	270	Horizontal
5	200.320	18.56	-30.80	43.50	24.94	119	227	Horizontal
6	574.442	22.69	-20.78	46.00	23.31	115	37	Horizontal

Final Data List



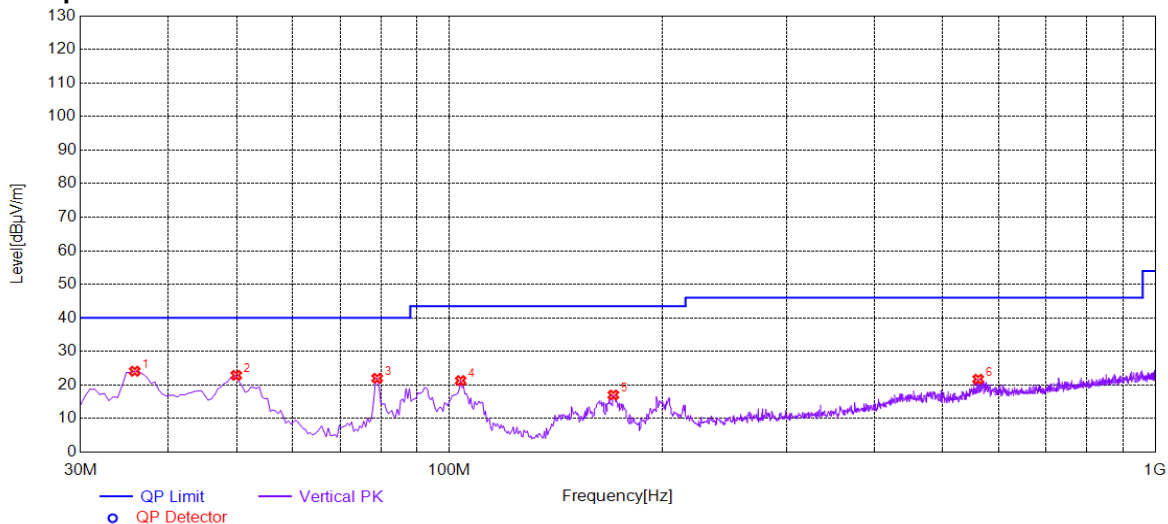
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Project Information			
Mode:	2.4G WIFI	State:	
Environment:	Temp: 25°C; Humi:60%	Engineer:	

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	24.12	-32.50	40.00	15.88	166	301	Vertical
2	49.8949	22.89	-30.18	40.00	17.11	195	323	Vertical
3	79.0095	22.01	-35.71	40.00	17.99	294	226	Vertical
4	103.756	21.32	-31.68	43.50	22.18	234	62	Vertical
5	170.720	17.05	-33.56	43.50	26.45	268	16	Vertical
6	561.340	21.74	-21.14	46.00	24.26	152	307	Vertical

Final Data List



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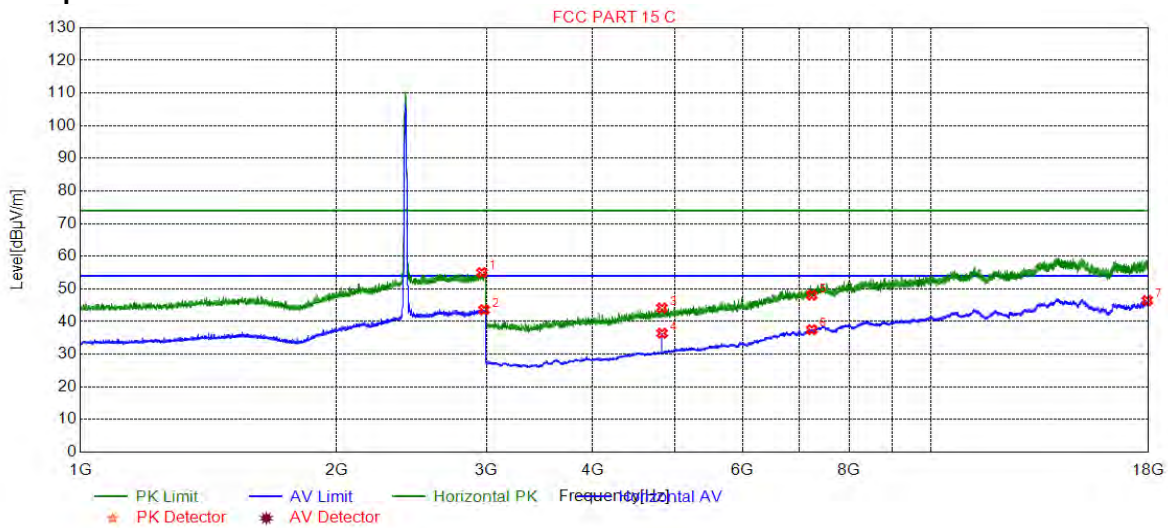
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4.9.2 Transmitter emission above 1GHz

4.9.2.1 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2963.99	55.01	9.62	74.00	18.99	198	317	Horizontal
2	2981.49	43.60	9.54	54.00	10.40	182	249	Horizontal
3	4824.00	44.19	-18.21	74.00	29.81	164	67	Horizontal
4	4825.68	36.43	-18.21	54.00	17.57	171	12	Horizontal
5	7236.00	48.10	-9.76	74.00	25.90	223	39	Horizontal
6	7236.00	37.52	-9.76	54.00	16.48	167	177	Horizontal
7	17930.9	46.44	-1.30	54.00	7.56	211	232	Horizontal

Final Data List

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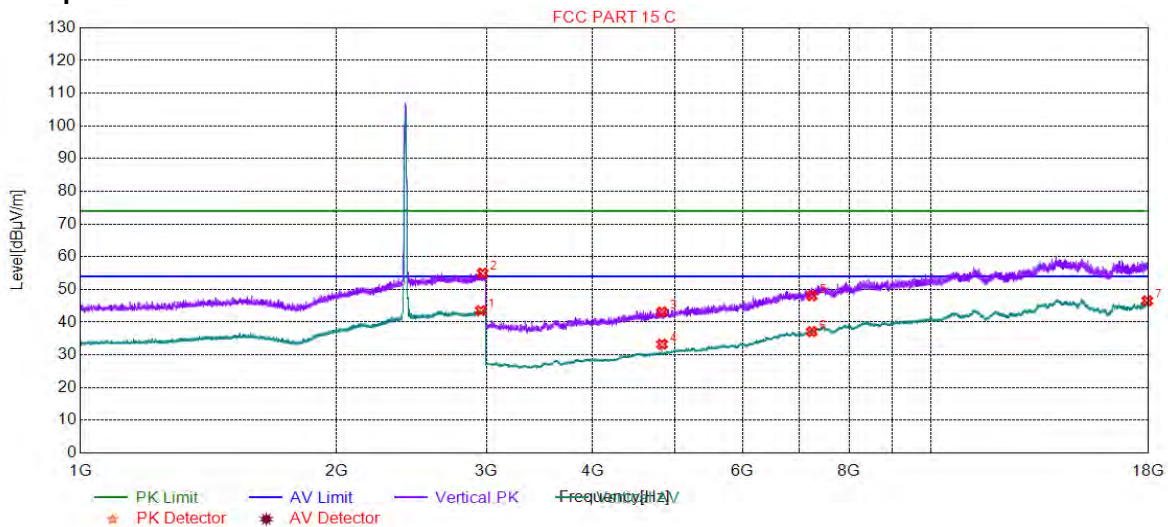
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4.9.2.2 802.11B_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.98	43.54	9.66	54.00	10.46	258	247	Vertical
2	2968.99	55.00	9.59	74.00	19.00	152	287	Vertical
3	4824.00	43.14	-18.21	74.00	30.86	237	127	Vertical
4	4825.68	33.26	-18.21	54.00	20.74	285	45	Vertical
5	7236.00	48.08	-9.76	74.00	25.92	282	320	Vertical
6	7236.00	37.09	-9.76	54.00	16.91	286	18	Vertical
7	17932.4	46.51	-1.30	54.00	7.49	222	320	Vertical

Final Data List



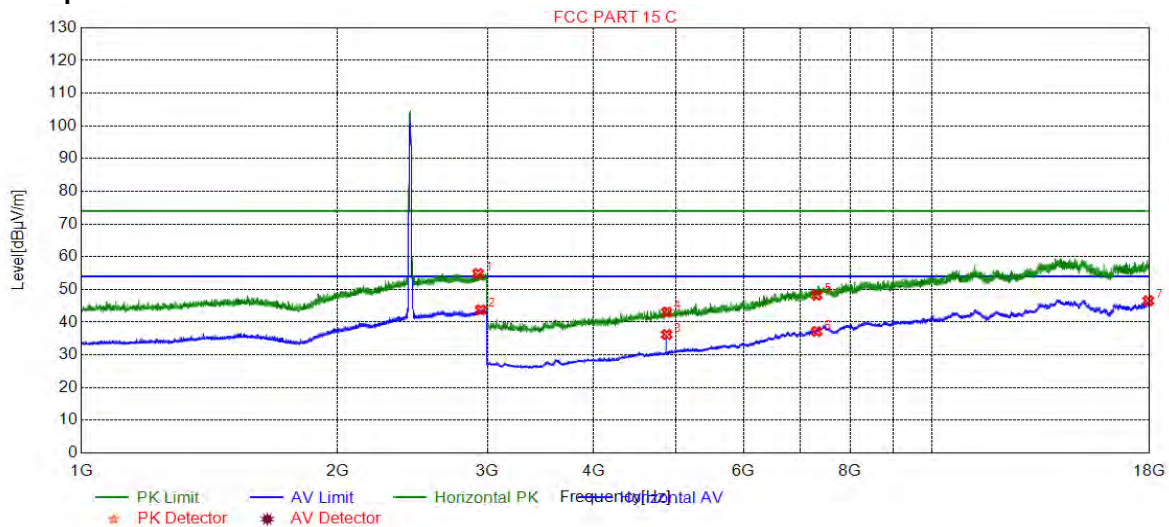
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4.9.2.3 802.11B_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2924.48	54.88	9.40	74.00	19.12	208	360	Horizontal
2	2946.98	43.79	9.65	54.00	10.21	241	128	Horizontal
3	4874.00	36.23	-17.99	54.00	17.77	213	68	Horizontal
4	4874.00	43.11	-17.99	74.00	30.89	104	260	Horizontal
5	7311.00	48.25	-9.59	74.00	25.75	142	287	Horizontal
6	7311.00	37.15	-9.59	54.00	16.85	224	68	Horizontal
7	17930.9	46.55	-1.30	54.00	7.45	246	342	Horizontal

Final Data List



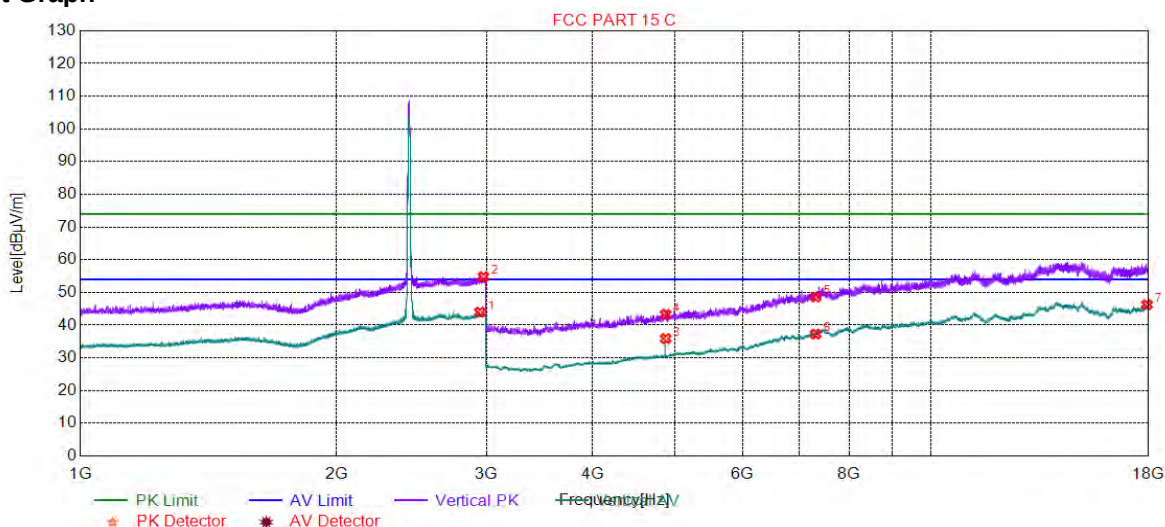
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4.9.2.4 802.11B_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2947.98	43.99	9.66	54.00	10.01	166	56	Vertical
2	2975.99	54.82	9.56	74.00	19.18	294	110	Vertical
3	4874.00	35.91	-17.99	54.00	18.09	294	18	Vertical
4	4874.00	43.33	-17.99	74.00	30.67	272	18	Vertical
5	7311.00	48.60	-9.59	74.00	25.40	265	355	Vertical
6	7311.00	37.28	-9.59	54.00	16.72	229	328	Vertical
7	17926.4	46.27	-1.30	54.00	7.73	168	182	Vertical

Final Data List



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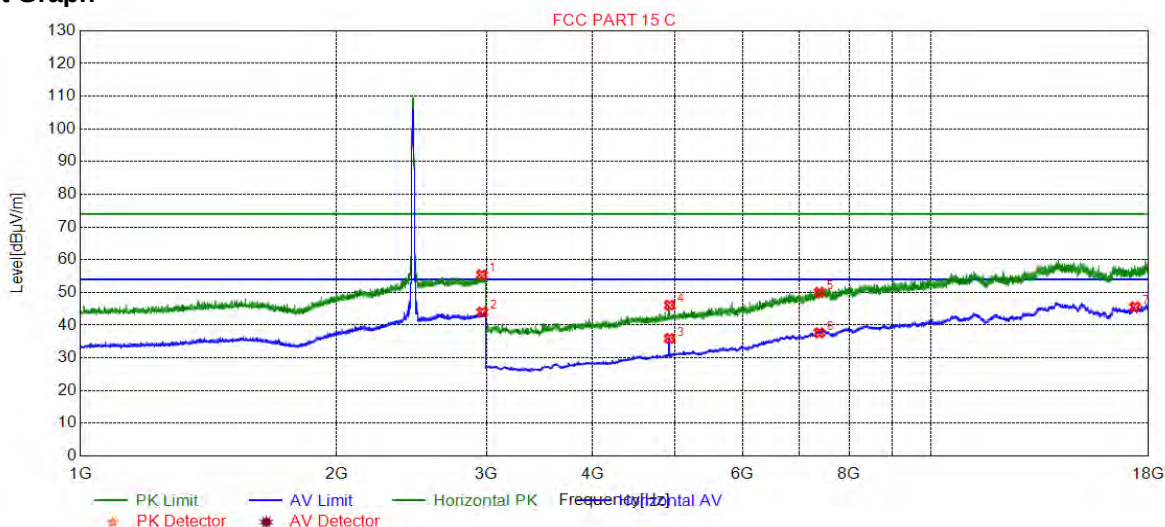
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4.9.2.5 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.49	55.39	9.61	74.00	18.61	205	276	Horizontal
2	2966.99	44.00	9.60	54.00	10.00	138	357	Horizontal
3	4924.00	35.95	-17.71	54.00	18.05	132	66	Horizontal
4	4924.00	46.13	-17.71	74.00	27.87	171	66	Horizontal
5	7386.00	50.02	-9.20	74.00	23.98	238	176	Horizontal
6	7386.00	37.67	-9.20	54.00	16.33	108	39	Horizontal
7	17350.4	45.59	-1.96	54.00	8.41	182	259	Horizontal

Final Data List



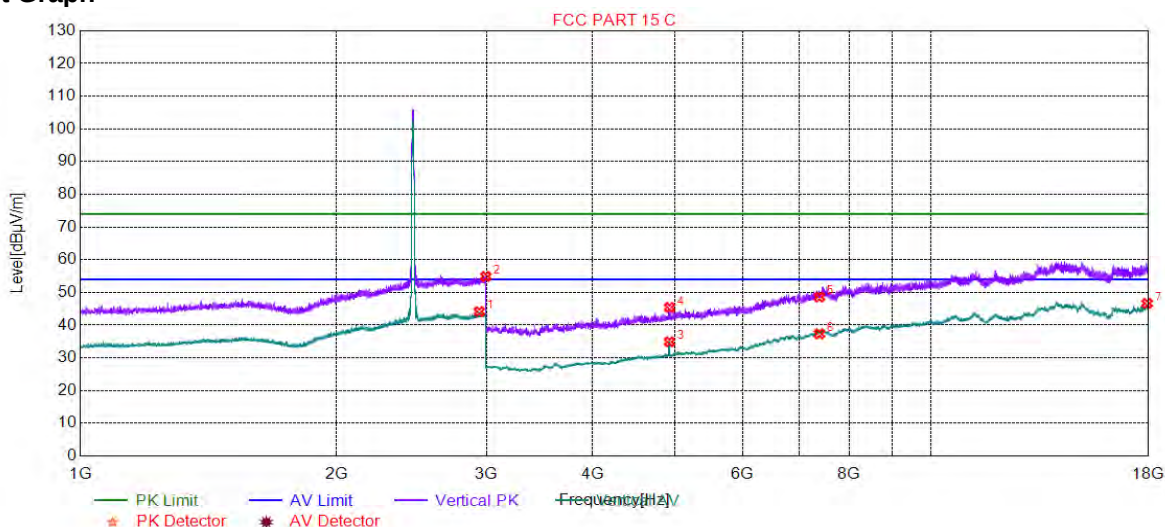
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4.9.2.6 802.11B_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.48	44.17	9.60	54.00	9.83	177	316	Vertical
2	2995.49	54.90	9.47	74.00	19.10	291	42	Vertical
3	4924.00	34.93	-17.71	54.00	19.07	174	18	Vertical
4	4924.00	45.43	-17.71	74.00	28.57	267	46	Vertical
5	7386.00	48.58	-9.20	74.00	25.42	168	320	Vertical
6	7386.00	37.36	-9.20	54.00	16.64	282	101	Vertical
7	17924.9	46.66	-1.30	54.00	7.34	265	292	Vertical

Final Data List



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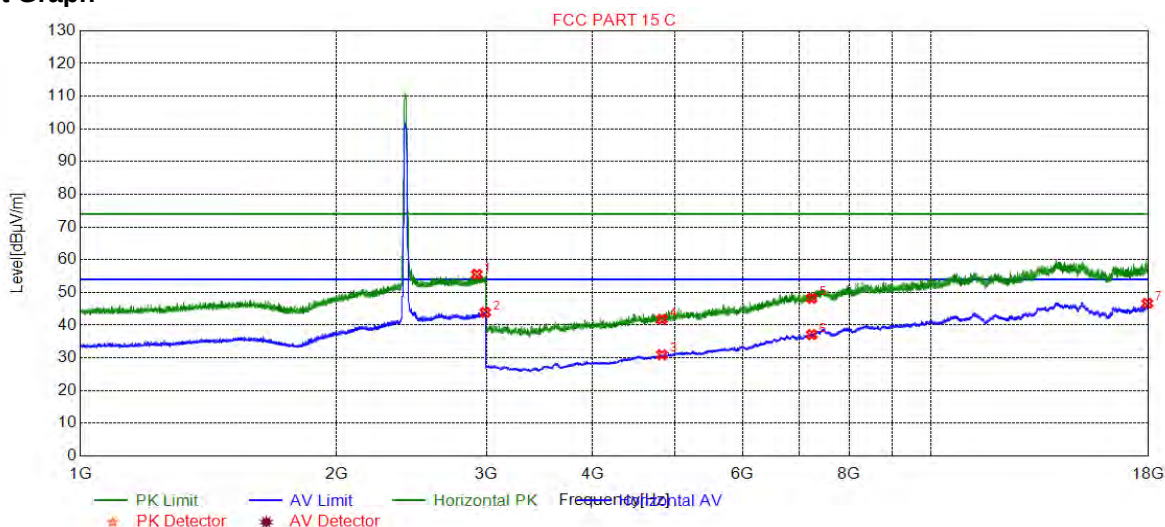
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4.9.2.7 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2922.98	55.55	9.39	74.00	18.45	142	128	Horizontal
2	2990.99	43.92	9.49	54.00	10.08	185	252	Horizontal
3	4824.00	30.96	-18.21	54.00	23.04	135	260	Horizontal
4	4824.00	41.81	-18.21	74.00	32.19	178	232	Horizontal
5	7236.00	48.21	-9.76	74.00	25.79	170	314	Horizontal
6	7236.00	37.12	-9.76	54.00	16.88	249	232	Horizontal
7	17936.9	46.71	-1.30	54.00	7.29	120	232	Horizontal

Final Data List

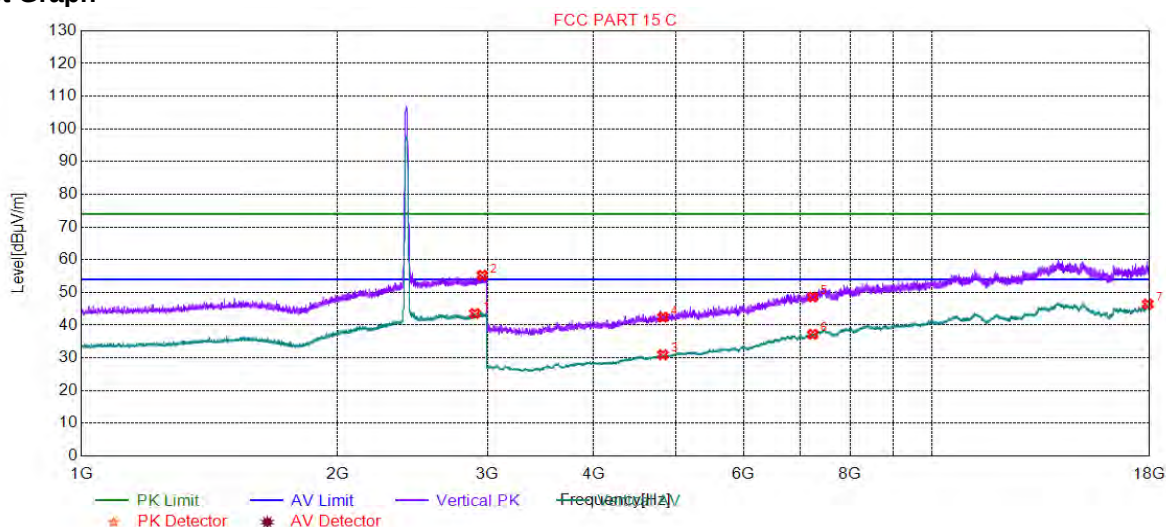


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4.9.2.8 802.11G_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2899.97	43.57	9.14	54.00	10.43	189	342	Vertical
2	2958.98	55.29	9.64	74.00	18.71	277	151	Vertical
3	4824.00	30.96	-18.21	54.00	23.04	236	346	Vertical
4	4824.00	42.46	-18.21	74.00	31.54	203	46	Vertical
5	7236.00	48.60	-9.76	74.00	25.40	202	182	Vertical
6	7236.00	37.18	-9.76	54.00	16.82	255	360	Vertical
7	17911.4	46.44	-1.31	54.00	7.56	192	292	Vertical

Final Data List



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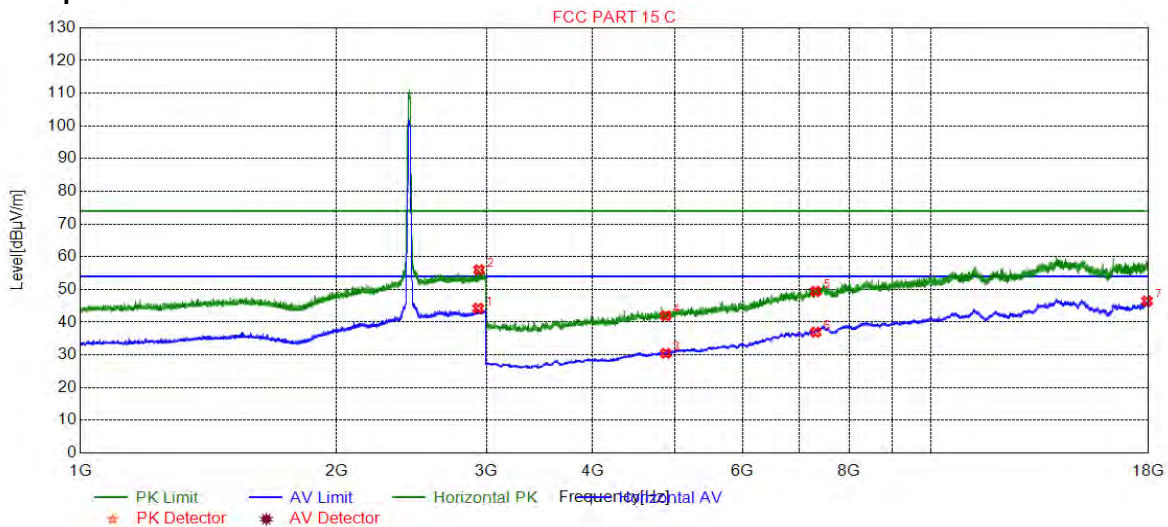
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4.9.2.9 802.11G_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.48	44.24	9.51	54.00	9.76	187	224	Horizontal
2	2940.48	56.01	9.58	74.00	17.99	132	88	Horizontal
3	4874.00	30.49	-17.99	54.00	23.51	198	342	Horizontal
4	4874.00	41.98	-17.99	74.00	32.02	111	232	Horizontal
5	7311.00	49.43	-9.59	74.00	24.57	245	13	Horizontal
6	7311.00	36.95	-9.59	54.00	17.05	200	287	Horizontal
7	17921.9	46.45	-1.30	54.00	7.55	197	149	Horizontal

Final Data List



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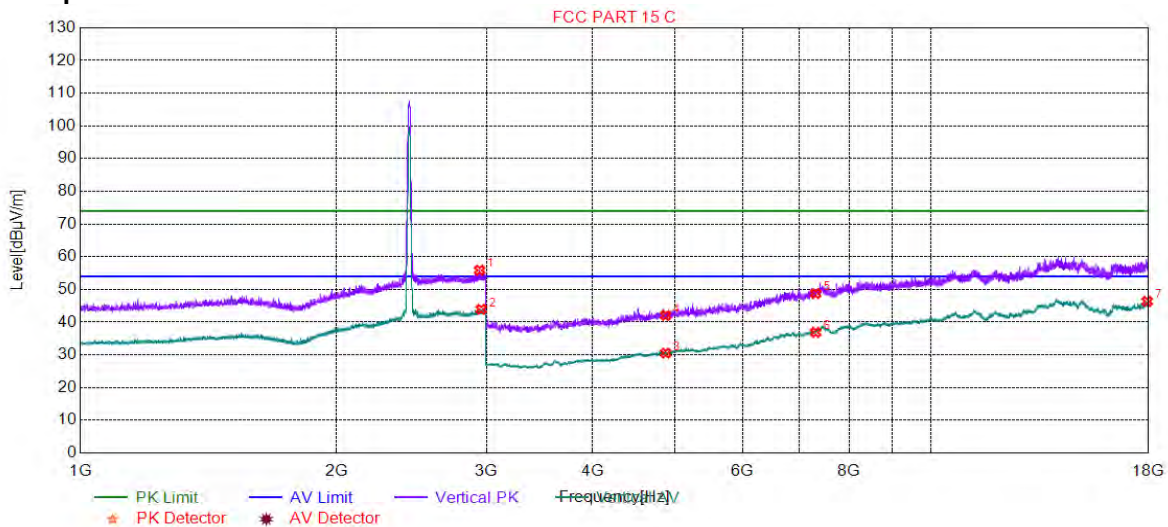
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4.9.2.10 802.11G_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.48	55.89	9.63	74.00	18.11	284	180	Vertical
2	2957.98	43.95	9.64	54.00	10.05	197	138	Vertical
3	4874.00	30.54	-17.99	54.00	23.46	264	73	Vertical
4	4874.00	42.07	-17.99	74.00	31.93	206	101	Vertical
5	7311.00	48.77	-9.59	74.00	25.23	230	128	Vertical
6	7311.00	36.91	-9.59	54.00	17.09	224	18	Vertical
7	17929.4	46.38	-1.30	54.00	7.62	196	211	Vertical

Final Data List



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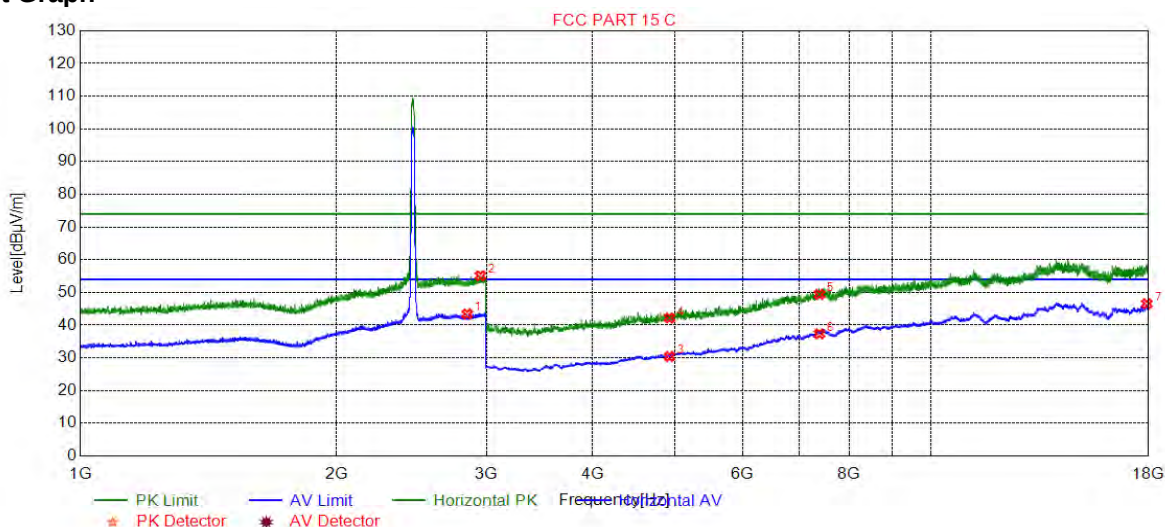
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4.9.2.11 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2848.46	43.41	9.23	54.00	10.59	146	332	Horizontal
2	2951.98	55.14	9.67	74.00	18.86	124	72	Horizontal
3	4924.00	30.43	-17.71	54.00	23.57	143	342	Horizontal
4	4924.00	42.19	-17.71	74.00	31.81	221	259	Horizontal
5	7386.00	49.42	-9.20	74.00	24.58	104	12	Horizontal
6	7386.00	37.37	-9.20	54.00	16.63	103	94	Horizontal
7	17912.9	46.56	-1.31	54.00	7.44	167	39	Horizontal

Final Data List



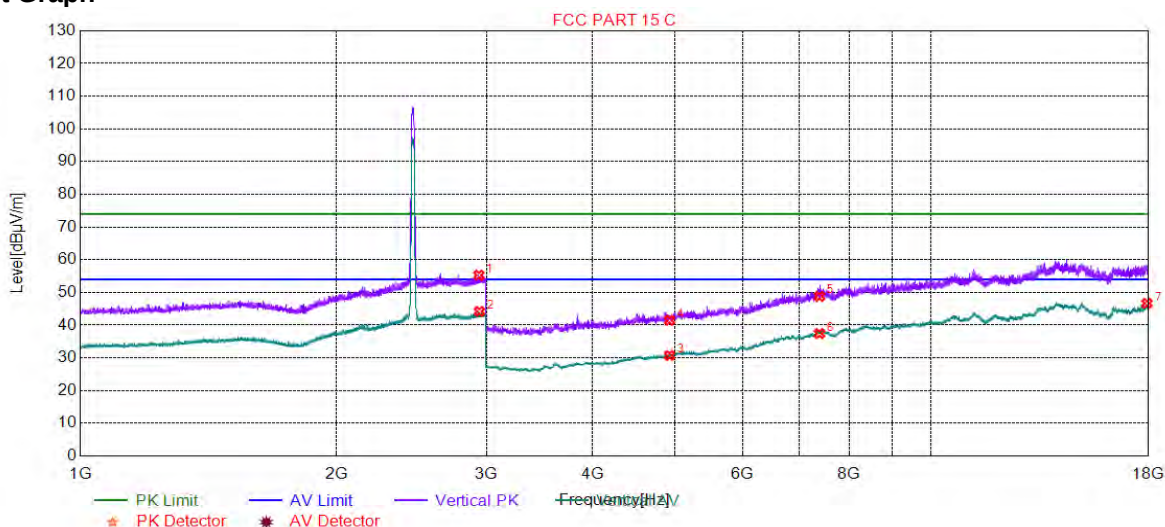
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4.9.2.12 802.11G_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.48	55.29	9.57	74.00	18.71	195	315	Vertical
2	2943.48	44.21	9.61	54.00	9.79	257	302	Vertical
3	4924.00	30.75	-17.71	54.00	23.25	206	292	Vertical
4	4924.00	41.48	-17.71	74.00	32.52	234	100	Vertical
5	7386.00	48.81	-9.20	74.00	25.19	259	128	Vertical
6	7386.00	37.44	-9.20	54.00	16.56	162	128	Vertical
7	17917.4	46.66	-1.30	54.00	7.34	194	18	Vertical

Final Data List



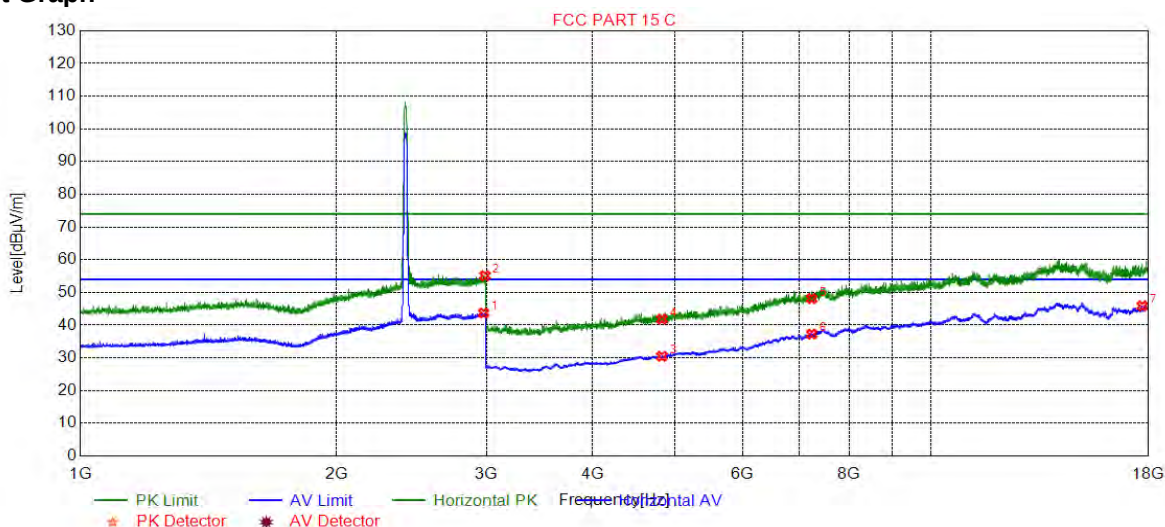
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4.9.2.13 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2977.49	43.72	9.55	54.00	10.28	124	154	Horizontal
2	2988.49	55.14	9.50	74.00	18.86	156	360	Horizontal
3	4824.00	30.47	-18.21	54.00	23.53	242	342	Horizontal
4	4824.00	41.86	-18.21	74.00	32.14	179	260	Horizontal
5	7236.00	48.14	-9.76	74.00	25.86	241	314	Horizontal
6	7236.00	37.29	-9.76	54.00	16.71	127	40	Horizontal
7	17696.9	45.88	-0.64	54.00	8.12	242	314	Horizontal

Final Data List



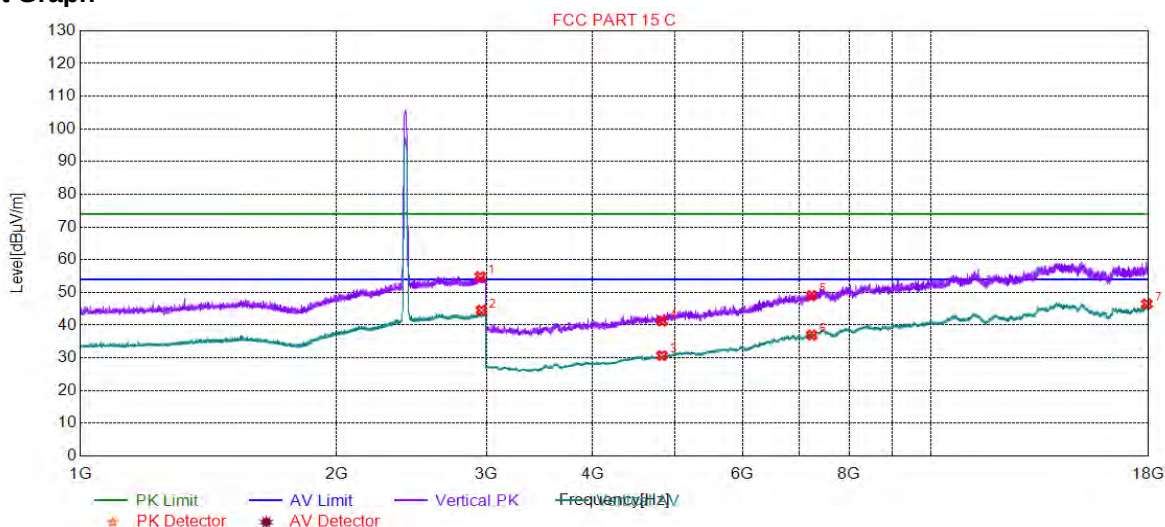
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4.9.2.14 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.48	54.85	9.68	74.00	19.15	204	342	Vertical
2	2959.99	44.58	9.63	54.00	9.42	206	259	Vertical
3	4824.00	30.70	-18.21	54.00	23.30	299	238	Vertical
4	4824.00	41.27	-18.21	74.00	32.73	167	74	Vertical
5	7236.00	49.07	-9.76	74.00	24.93	200	74	Vertical
6	7236.00	36.97	-9.76	54.00	17.03	202	183	Vertical
7	17914.4	46.49	-1.31	54.00	7.51	249	183	Vertical

Final Data List



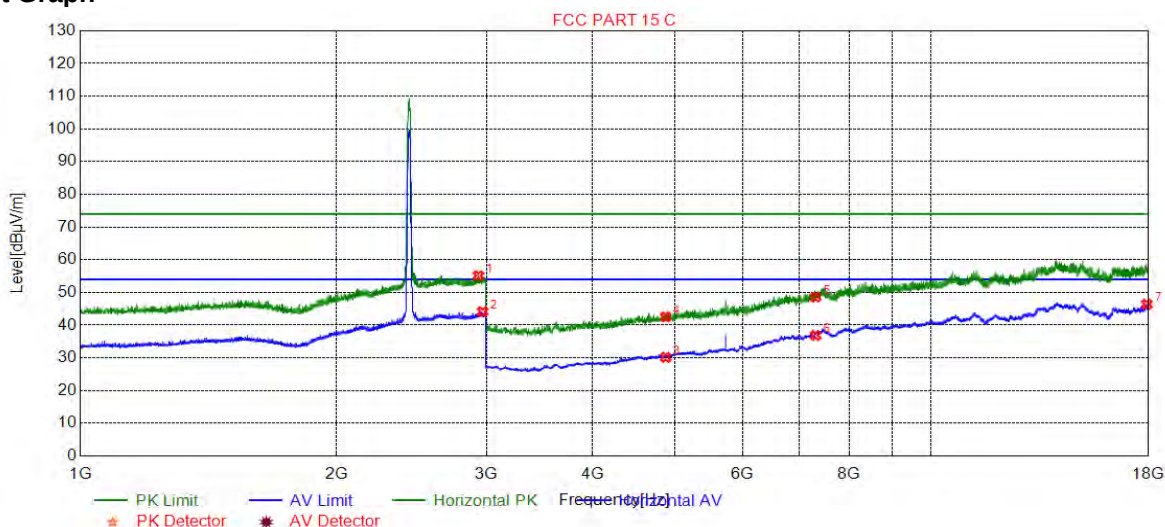
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4.9.2.15 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2936.48	55.15	9.53	74.00	18.85	100	18	Horizontal
2	2968.99	44.13	9.59	54.00	9.87	216	154	Horizontal
3	4874.00	30.16	-17.99	54.00	23.84	151	0	Horizontal
4	4874.00	42.55	-17.99	74.00	31.45	128	232	Horizontal
5	7311.00	48.59	-9.59	74.00	25.41	133	259	Horizontal
6	7311.00	36.86	-9.59	54.00	17.14	135	123	Horizontal
7	17917.4	46.42	-1.30	54.00	7.58	104	42	Horizontal

Final Data List



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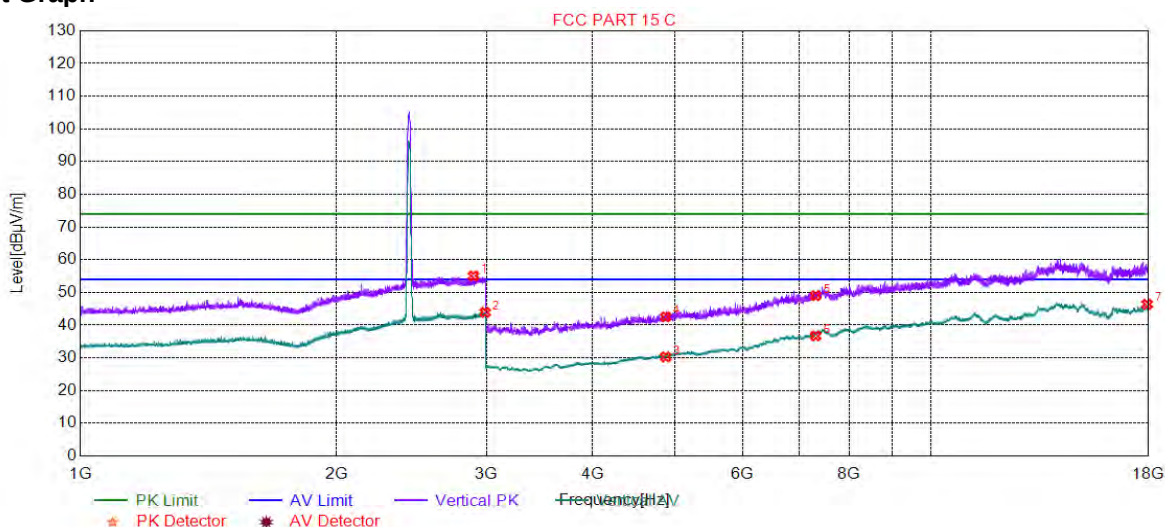
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4.9.2.16 802.11N20_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2897.47	55.07	9.15	74.00	18.93	250	98	Vertical
2	2989.49	43.91	9.50	54.00	10.09	288	180	Vertical
3	4874.00	30.31	-17.99	54.00	23.69	283	360	Vertical
4	4874.00	42.55	-17.99	74.00	31.45	163	264	Vertical
5	7311.00	49.03	-9.59	74.00	24.97	181	346	Vertical
6	7311.00	36.73	-9.59	54.00	17.27	256	72	Vertical
7	17926.4	46.40	-1.30	54.00	7.60	274	346	Vertical

Final Data List

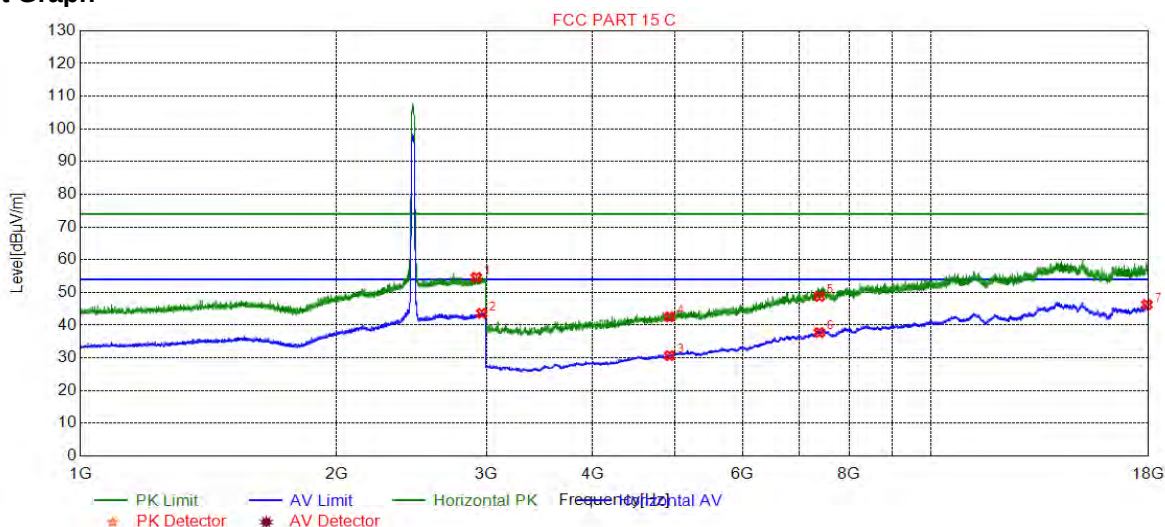


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4.9.2.17 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2919.47	54.62	9.35	74.00	19.38	186	235	Horizontal
2	2962.99	43.62	9.62	54.00	10.38	202	113	Horizontal
3	4924.00	30.70	-17.71	54.00	23.30	233	122	Horizontal
4	4924.00	42.57	-17.71	74.00	31.43	110	96	Horizontal
5	7386.00	48.78	-9.20	74.00	25.22	189	260	Horizontal
6	7386.00	37.76	-9.20	54.00	16.24	236	205	Horizontal
7	17920.4	46.30	-1.30	54.00	7.70	135	205	Horizontal

Final Data List



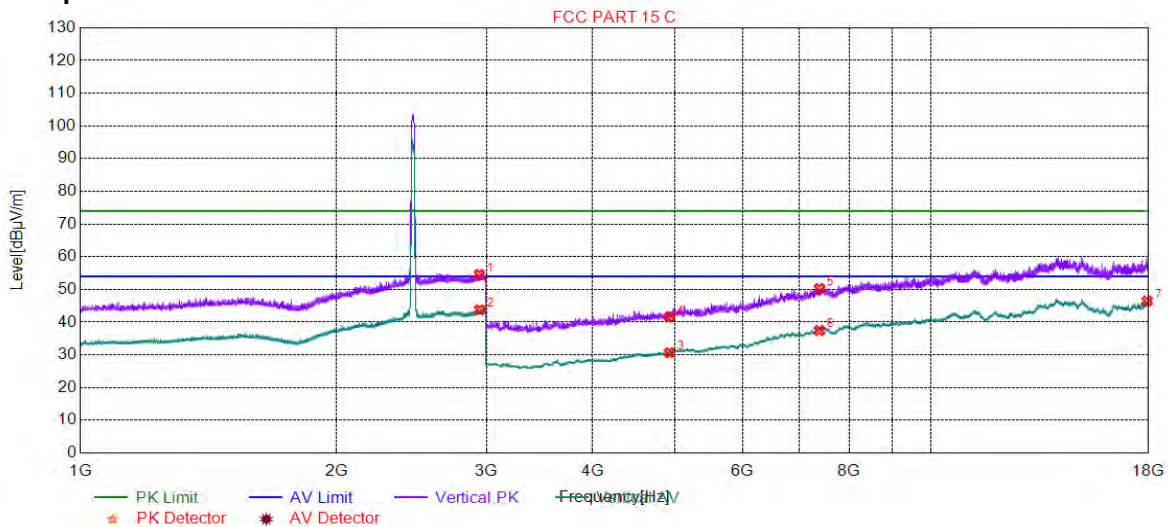
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4.9.2.18 802.11N20_Channel 11

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.48	54.59	9.61	74.00	19.41	176	245	Vertical
2	2946.98	43.79	9.65	54.00	10.21	264	41	Vertical
3	4924.00	30.67	-17.71	54.00	23.33	212	318	Vertical
4	4924.00	41.61	-17.71	74.00	32.39	179	236	Vertical
5	7386.00	50.30	-9.20	74.00	23.70	204	345	Vertical
6	7386.00	37.48	-9.20	54.00	16.52	236	181	Vertical
7	17932.4	46.47	-1.30	54.00	7.53	180	291	Vertical

Final Data List



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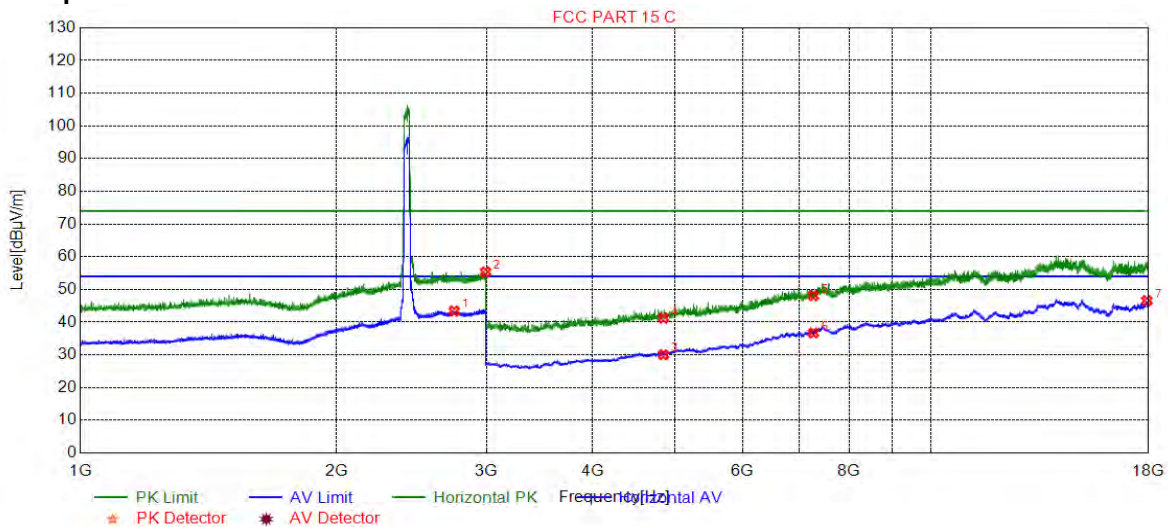
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4.9.2.19 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2749.43	43.40	9.10	54.00	10.60	134	100	Horizontal
2	2993.99	55.36	9.48	74.00	18.64	164	358	Horizontal
3	4844.00	30.04	-18.12	54.00	23.96	148	0	Horizontal
4	4844.00	41.22	-18.12	74.00	32.78	172	96	Horizontal
5	7266.00	48.11	-9.71	74.00	25.89	199	0	Horizontal
6	7266.00	36.71	-9.71	54.00	17.29	148	0	Horizontal
7	17912.9	46.58	-1.31	54.00	7.42	246	14	Horizontal

Final Data List



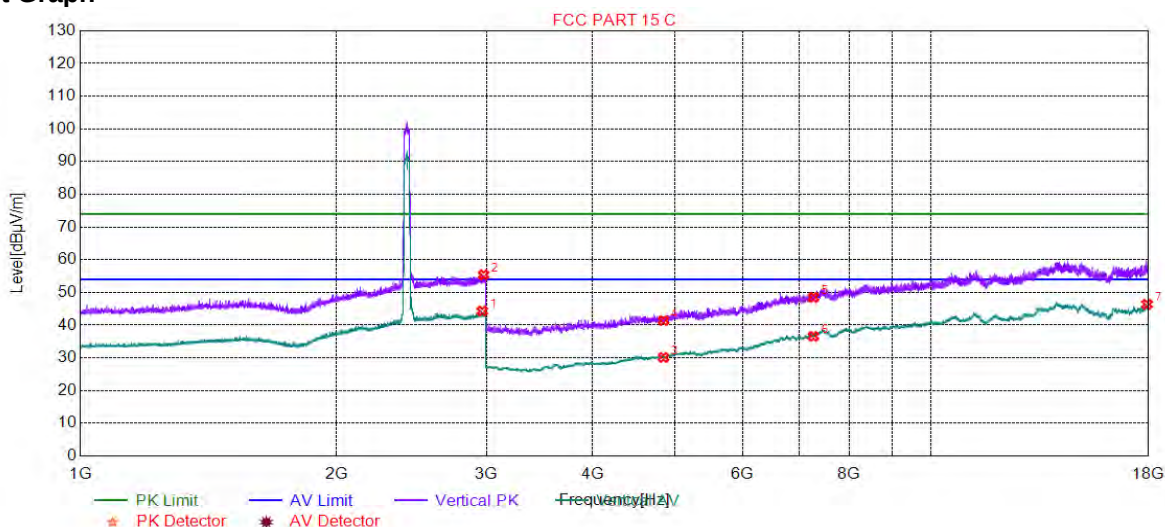
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4.9.2.20 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2966.49	44.34	9.60	54.00	9.66	173	54	Vertical
2	2977.99	55.42	9.55	74.00	18.58	198	41	Vertical
3	4844.00	30.14	-18.12	54.00	23.86	288	72	Vertical
4	4844.00	41.44	-18.12	74.00	32.56	173	18	Vertical
5	7266.00	48.49	-9.71	74.00	25.51	248	99	Vertical
6	7266.00	36.59	-9.71	54.00	17.41	175	317	Vertical
7	17921.9	46.40	-1.30	54.00	7.60	284	344	Vertical

Final Data List



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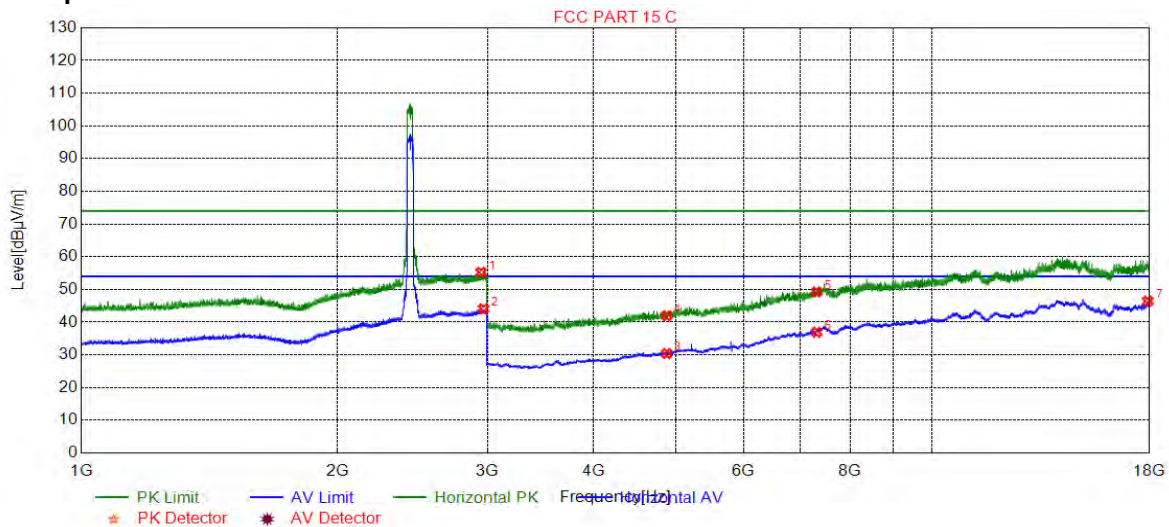
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4.9.2.21 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.98	55.26	9.67	74.00	18.74	229	18	Horizontal
2	2968.49	44.08	9.59	54.00	9.92	221	290	Horizontal
3	4874.00	30.43	-17.99	54.00	23.57	160	0	Horizontal
4	4874.00	41.97	-17.99	74.00	32.03	155	342	Horizontal
5	7311.00	49.29	-9.59	74.00	24.71	104	206	Horizontal
6	7311.00	36.93	-9.59	54.00	17.07	232	206	Horizontal
7	17914.4	46.43	-1.31	54.00	7.57	205	97	Horizontal

Final Data List



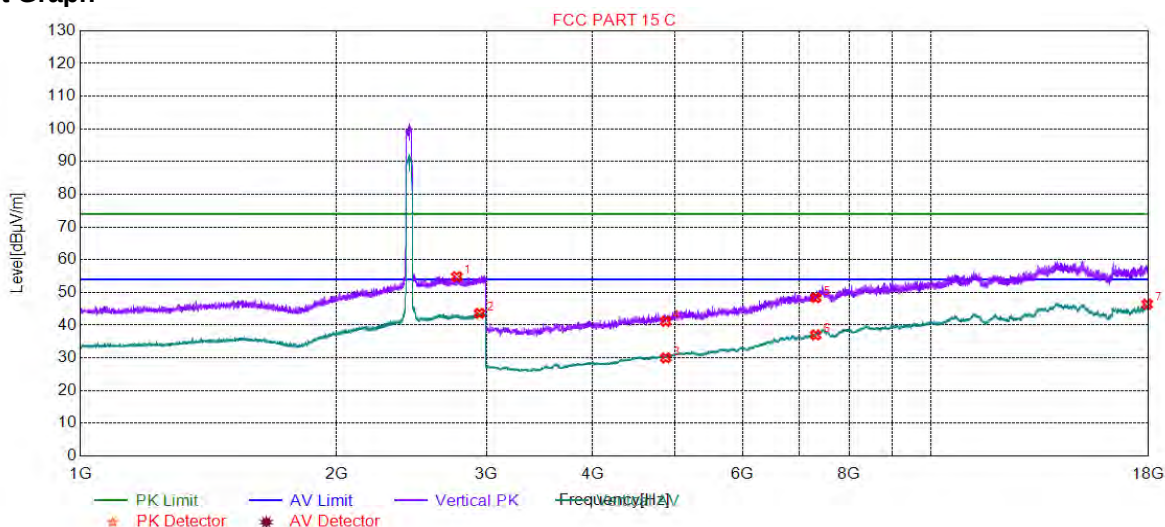
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4.9.2.22 802.11N40_Channel 6

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2769.44	54.85	9.06	74.00	19.15	211	247	Vertical
2	2944.98	43.62	9.63	54.00	10.38	283	3	Vertical
3	4874.00	30.00	-17.99	54.00	24.00	296	127	Vertical
4	4874.00	41.17	-17.99	74.00	32.83	275	346	Vertical
5	7311.00	48.39	-9.59	74.00	25.61	174	44	Vertical
6	7311.00	37.02	-9.59	54.00	16.98	174	18	Vertical
7	17929.4	46.41	-1.30	54.00	7.59	157	100	Vertical

Final Data List



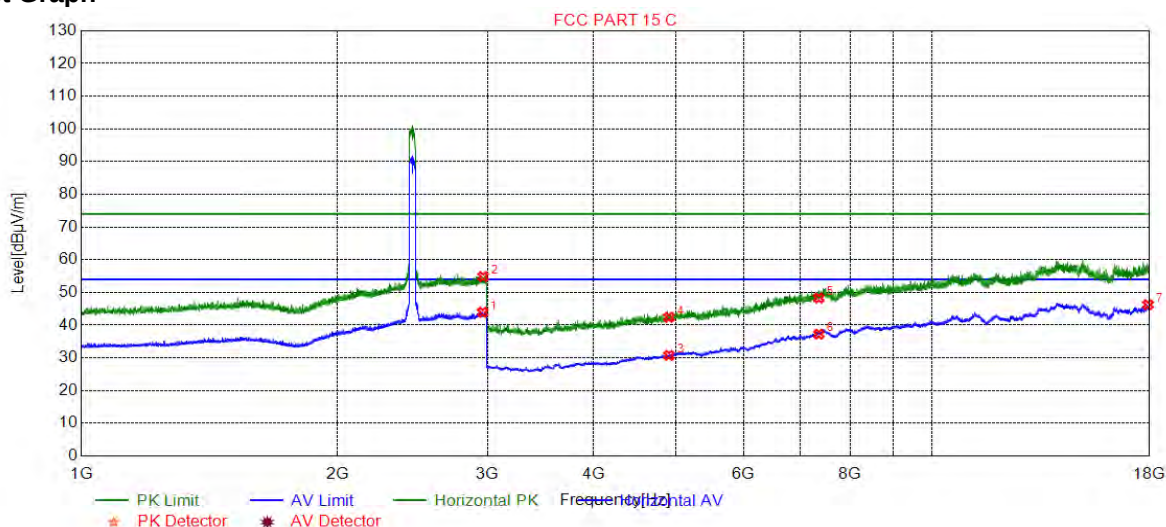
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4.9.2.23 802.11N40_Channel 9

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2962.49	43.96	9.62	54.00	10.04	243	18	Horizontal
2	2965.99	54.86	9.61	74.00	19.14	210	237	Horizontal
3	4904.00	30.78	-17.84	54.00	23.22	152	16	Horizontal
4	4904.00	42.39	-17.84	74.00	31.61	109	0	Horizontal
5	7356.00	48.29	-9.36	74.00	25.71	171	126	Horizontal
6	7356.00	37.26	-9.36	54.00	16.74	172	43	Horizontal
7	17921.9	46.27	-1.30	54.00	7.73	147	288	Horizontal

Final Data List



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